

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Invitation to Bid

City of Canton, Ohio
Purchasing Department
218 Cleveland Ave. SW, 4th floor
Canton, Ohio 44702

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and Part 2 (22nd/24th
Street NE) Roadway Reconstruction Project**

Item/Project

Water Department

Responsible Department

Friday, November 30, 2018 at 2:00 PM local time

Bids Due On or Before

Bid Proposal Submitted By:

Company Name

Street Address

City

State

Zip

Contact Person

Phone No.

Email Address

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

LEGAL NOTICE: Ordinance 120/2018

The City of Canton, Ohio Director of Public Service will accept sealed bids on or before 2:00 PM local time on **Friday, November 30, 2018** for the purpose of securing bids for the:

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

The City will disqualify any bid not received on or before 2:00 PM local time on Friday, November 30, 2018. Shortly after the deadline for the submission of bids, bids received on time will be publically opened and read aloud. The Sixth Floor Conference Room of Canton City Hall, 218 Cleveland Ave. SW, Canton, OH 44702 is the location for the Bid Opening.

Submit all bids to the City of Canton Purchasing Department, 218 Cleveland Avenue SW, Fourth Floor, Canton, Ohio 44702 according to the specifications and bid documents at the City of Canton Purchasing Department's website at <https://cantonohio.gov/purchasing/>.

Each bid must contain the full name of every person or company participating in the bid.

A certified check, cashier's check or surety bond, in accordance with Section 153.54 of the Ohio Revised Code, must accompany the bid. This check or bond must be made payable to the City of Canton. Draw this check or bond from a solvent bank or bonding company satisfactory to the Director of Public Service as a guarantee the contract and its performance are properly secured if the bid is accepted. Said certified check or cashier's check shall be for ten percent (10%) of the total amount bid. Where a bid bond is used, it shall be in an amount of one hundred percent (100%) of the total amount of the bid. The City of Canton will only accept original checks and bid bonds. Therefore if any company and/or bidder submits a copy of its security, the City will disqualify the bid. Bidders submitting a certified or cashier's check will be required to provide a surety bond in the amount of one hundred percent (100%) of the contract sum for faithful performance. The Director of Public Service reserves the right to waive any technical defects in any bid bond submitted so long as the bond is in substantial compliance with state law. Should any bid not be awarded or be rejected, such check or bond will be returned to the bidder or bidders after the execution of the contract.

Any bidder may withdraw his bid, by written request, at any time prior to the hour set for the bid opening by following the instructions in the Invitation to Bid.

The Board of Control reserves the right to reject any or all bids and to accept the bid(s) deemed most beneficial to the City of Canton.

The successful bidder must comply with all State of Ohio Prevailing Wage Rates.

All companies must submit their Federal ID Number.

A Project Labor Agreement (PLA) is required for this project.

The Engineer's estimate for both phases of this project combined is **\$1,603,744.00**.

The bidder is responsible for monitoring the City's website for any official addenda.

Please contact Director of Purchasing Andrew Roth at andrew.roth@cantonohio.gov if you have any questions regarding this bid.

By order of the Canton Director of Public Service: John M. Highman, Jr.
Published in the Repository: November 16 and 19, 2018

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Table of Contents

INDEX

Section I: Instructions to Bidders (Pages 4-9)

Section II: General Conditions (Pages 10-27)

Section III: Additional Requirements and/or Conditions (Page 28)

Section IV: City of Canton Codified Ordinances (Pages 29-33)

Section V: Construction Claims Management Policy (Pages 34-38)

Section VI: Bid Forms and Bid Form Instructions (Pages 39-70)

Section VII: Ohio Public Works Commission Requirements (Pages 71-83)

Section VIII: Specifications (Pages 84-89)

Section IX: Signature and Proposal Pages (Pages 103-109)

Appendix A: Conditional Release and Final Waiver of Lien

Appendix B: Prevailing Wage Rates and Information

Appendix C: Technical Specifications and Drawings

Appendix D: Pipe Capacities and Flows

Appendix E: Project Labor Agreement

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Section I: Instructions to Bidders

A. Submitting Bids

1. Bids are to be returned to:
The City of Canton Purchasing Department
218 Cleveland Avenue SW, 4th floor
Canton, OH 44702
2. Bids should be enclosed in an opaque sealed envelope, box, or other suitable container, marked with the following:
 - a. Project title.
 - b. Office where bid is to be submitted.
 - c. The name and address of the bidder.
 - d. The date and time of the bid opening.
3. The following items should be submitted with the bid in order for it to be considered. Failure to submit one of these items may result in a disqualification of the bid.
 - a. Bid Title Page
 - b. Signature Page
 - c. Proposal Pages
 - d. Bid Form 1 – Minority Business Enterprise Utilization Commitment
 - e. Bid Form 2 – Bidder and Contractor Employment Practices Report
 - f. Bid Form 3 – Authority of Signatory
 - g. Bid Form 4 – Bid Guarantee
 - h. Bid Form 5 – Bidder Information
 - i. Bid Form 6 – Project References
 - j. Bid Form 7 – Non-Collusion Affidavit
 - k. Bid Form 8 – Questionnaire in Determining Lowest and Best Bid
 - l. Bid Form 9 – Insurance Affidavit and Certificates
 - m. Copy of the Ohio Public Works Commission Requirements **with a completed Section 9** (State of Ohio Equal Employment Opportunity Requirements)
4. Bids will not be accepted after 2:00 PM on **Friday, November 30, 2018**. The party submitting a bid is solely responsible for the delivery of the bid to the specified location prior to the deadline for the receipt of bids. The Purchasing Department time stamp clock is the official time used for the deadline of the submission of bids.
5. Bidders may withdraw their bids between the time they are submitted and opened if so desired. This must be done via written request submitted to the City of Canton Purchasing Department.
6. The bids shall be opened and publicly read shortly after the deadline for their submission.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

B. Pre-Bid Meeting

1. There is no Pre-Bid Meeting for this project.

C. Questions and Addenda

1. All questions should be submitted in writing at least five (5) business days prior to the bid opening. This is **Friday, November 23, 2018 at 2:00 PM**. Answers to questions will be issued in writing as official addenda no later than seventy two (72) business hours prior to the time of the bid opening. **This is Tuesday, November 27, 2018 at 2:00 PM**. Said addenda will become a component of the official bid packet and must be acknowledged as received on the signature page. Failure to acknowledge all official addenda in this manner may result in your bid being disqualified.
2. Bidders are expected to and are responsible for monitoring the City's website for all official addenda.
3. Oral instructions or decisions, unless confirmed by addenda, will not be considered valid, legal or binding.
4. All questions pertaining to the project should be directed to:
Andrew Roth, Director of Purchasing
Email: Andrew.roth@cantonohio.gov

D. Bid Proposal Form and Proposal Page

1. The proposal page is the only form upon which the proposed bid price can be offered. Bidder's quote sheets, letters, or other materials cannot be used in lieu of the proposal page. When descriptive literature is included with the bid submittal, they shall be considered only for informational purposes. Payment, warranty and other terms that may appear on such forms that vary from the terms of the contract documents shall be considered null and void.

E. Contract Award

1. The City of Canton Board of Control will evaluate the bids and award the contract on the basis of the lowest and best bid. The Board of Control reserves the right to reject any and all bids and to award the bid deemed in the best interests of the City. The Board of Control and Director of Public Service reserve the right to waive minor deficiencies contained within a bid.
2. One or more bidders may be required to submit information to the Owner or its representative to assist in the evaluation of the bid. A bidder may also be required to participate in an interview during which, among other things, the bidder would

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

be requested to make a presentation regarding its organization, resources and its preliminary plan to perform the construction (schedule, means and methods, etc.).

F. Notice of Award and Execution of Contract Documents

1. The successful bidder will be notified in writing once the contract is awarded by the Board of Control.
2. At this time the contractor will be required to sign official contract documents and submit any remaining bid forms.
3. Once the completed contract is certified by the City of Canton Auditor, a copy of the contract, Purchase Order, and Notice to Proceed will be sent to the contractor.

G. Pre-Job Meeting

1. A pre-construction meeting will be held prior to the start of this project. This meeting will include the Contractor and the Owner's representative. The condition of the project limits shall be recorded and the contractor shall be responsible for the correction and/or repair of any additional damage to the facilities resulting from the related work and in addition to the conditions noted at the pre-construction meeting.

H. Notice to Proceed and Job Completion

1. The Contractor shall not start the work embraced in this contract before the date of a written Notice to Proceed from the City. The Contractor is required to start work within 10 days after receiving the Notice to Proceed. Work shall be completed as per applicable sections in the General Conditions.
2. If the work done under this contract conflicts with other work done for or by the City, or with its consent, the City shall determine the time and manner of the procedure of the operations carried on under this contract.
3. The Contractor is responsible for any additional costs due to weather-sensitive construction.
4. The permitting of the Contractor to complete the work or any part thereof, after the time fixed for its completion shall in no way operate as a waiver on the part of the City of any of its rights under this contract.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

I. Document Order of Precedence

1. In the event of an internal conflict within the bid/contract documents the following will be the order of precedence.
 - a. Change Order Documents
 - b. Signed Contract Documents
 - c. Ohio Public Works Commission Requirements
 - d. Official Addenda
 - e. Invitation to Bid Signature and Proposal Pages
 - f. Instructions to Bidders
 - g. Technical Specifications and Project Drawings
 - h. Supplemental Specifications
 - i. General Conditions
 - j. ODOT Construction and Manual Specifications
 - k. Bid Forms
 - l. Bid Form Instructions
 - m. Additional Requirements and/or Conditions
 - n. Legal Notice
 - o. Bid Advertisement

J. Non-Exclusivity

1. The City reserves the right to contract for the same or similar services, or perform the same or similar work with City employees during the course of this contract, if found to be in the best interest of the City.

K. Contractor's Final Release and Waiver of Lien

1. The successful bidder will be required to sign and submit the Contractor's Final Release and Waiver of Lien before final payment will be made.

L. City of Canton Income Tax

1. All successful bidders shall be required to comply with all City of Canton income tax ordinances including the following:
 - a. No person, partnership, corporation or unincorporated association may be awarded a contract with the City under Sections 105.09 or 105.10, unless the vendor is paid in full or is current and not otherwise delinquent in the payment of City income taxes, including any obligation to pay taxes withheld from employees under Section 182.05 and any payment on net profits under Section 182.06
 - b. Falsification of any information related to or any post-contractual violation of the requirement to pay City income taxes set forth in

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

subsection (a) shall constitute cause for the rescission of the balance of the contract at the City's discretion.

- c. No partnership, corporation or unincorporated association which has as one of its partners, shareholders or owners a person who is a twenty percent (20%) or greater equity owner in such partnership, corporation or unincorporated association and who is delinquent in the payment of City income taxes as set forth in subsection (a), may be awarded a contract with the City under Sections 105.09 or 105.10.
 - d. A person who is a twenty percent (20%) or greater equity owner in any partnership, corporation or unincorporated association which is delinquent in the payment of City income taxes as set forth in subsection (a) may not be awarded a contract with the City under Sections 105.09 or 105.10.
 - e. By entering into contract with the City of Canton the vendor agrees with the City regarding the manner of withholding of City income taxes as provided in Section 718.011(F) of the Ohio Revised Code including the following:
 - i. Municipal income tax withholding provisions of Sections 718.011(B)(1) and 718.011(D) ORC shall not apply to qualifying wages paid to employees for work done or services performed or rendered inside the City or on City property.
 - ii. The vendor agrees to withhold income tax for the City from employees' qualifying wages earned inside the City or on City property, beginning with the first day of work done or services performed or rendered inside the City.
2. The successful bidder will be registered with the City of Canton Income Tax Department to ensure that the above qualifications are met. Bidders are encouraged to contact the City of Canton Income Tax Department prior to bidding with any questions regarding these provisions and for registration. Please use the contact information below.

City of Canton Income Tax Department

Office Address

424 Market Ave. N
Canton OH 44702

Correspondence Address

P.O. Box 9940
Canton, OH 44711

Phone: (330) 430-7900

Fax: (330) 430-7944

Email: cantontax@cantonohio.gov

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

3. Additionally, all public improvement, professional services, and services contracts shall also contain the following provisions:

Provision 1

Said _____ hereby further agrees to withhold all City income taxes due or payable under Chapter 182 of the Codified Ordinances for wages, salaries, fees and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income taxes due for services performed under this contract. Furthermore, any person, firm or agency that has a contract or agreement with the City shall be subject to City income tax whether a resident or nonresident in the City, and whether the work being done is in the City or out of the City. In addition to the tax withheld for employees, the net profits on the contract shall be subject to City income tax.

Provision 2

By entering into contract with the City of Canton _____ agrees with the City regarding the manner of withholding of City income taxes as provided in Section 718.011(F) of the Ohio Revised Code.

1. Municipal income tax withholding provisions of Sections 718.011(B)(1) and 718.011(D) ORC shall not apply to qualifying wages paid to employees for work done or services performed or rendered inside the City or on City property.
2. _____ agrees to withhold income tax for the City from employees' qualifying wages earned inside the City or on City property, beginning with the first day of work done or services performed or rendered inside the City.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Section II: General Conditions

(The headings of the various sections are for convenience in reference. Do not consider these parts of the specifications.)

(1) **Definitions:** The term “City” wherever used in these specifications shall mean the City of Canton, acting through its Director of Public Service, or his properly authorized agents, such agents acting severally within the scope of the particular duties entrusted to them.

The term “Director” wherever used shall mean the Director of Public Service of the City of Canton, duly appointed and holding office at the same time the contract was executed or during the fulfillment thereof.

The term “Engineer” whenever used, shall mean the City Engineer of said City or his properly authorized agents to the extent of the powers invested in them.

The term “Contractor” wherever used, shall mean the party of the second part entering into contract with the City for the performance of the work herein specified, or his properly authorized agents.

In all cases when the term “days” as used in these specifications shall be held to mean calendar days, unless otherwise noted.

The term “Work” wherever used, shall mean the furnishing of all labor, tools, machinery and the furnishing of all materials, except as herein otherwise specified, necessary to performing and completing of all the work herein specified. The methods and appliances used therefor must be such as will produce a satisfactory quality of work and ensure safety to the workmen, the public and to property.

Wherever, in the specifications, or upon the drawings and plans, the words directed, required, permitted, ordered, designated, prescribed, or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the City is understood, and similarly, the words approved, acceptable, satisfactory to, refer to the City unless otherwise expressly so stated.

(2) **Decisions:** Contractor will perform all the work under this contract to the satisfaction of the City. The City, in all cases, shall determine the amount, quality, acceptability, and fitness of the several kinds of work, and materials paid for hereunder. The City shall decide all questions that may arise for determining the fulfillment of this contract. The City’s determination and decision thereon shall be final and conclusive; and the City’s determination and decision in case of any question that may arise, shall be a condition precedent to the right of the Contractor to receive any money hereunder.

(3) **Orders to the Contractor and Failure to Execute:** The address given in the bid or proposal upon which this contract is founded is hereby designated as the place where all notices, letters and other communications to the Contractor shall be mailed or delivered. Such address

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

may be changed at any time by a written notice from the Contractor and delivered to the City.

The Contractor must have on the work at all times, a foreman, superintendent or other competent representative, to whom orders and instructions may be given. Such orders and instructions shall have the same force and effect as if given directly to the Contractor.

Whenever instructions or orders which in the opinion of the Engineer require prompt or immediate attention, are neglected or ignored by the Contractor or his Superintendent, the Engineer shall have the power to place necessary men, machinery and materials on the work and charge the entire cost, including overhead expenses, to the Contractor, who shall either pay the entire cost and expenses into the City Treasury, or the amount thereof shall be deducted from money due the Contractor under the contract.

(4) **Subletting or assigning contract:** The Contractor shall give his personal attention to the faithful prosecution of the work, shall retain the same under his personal control and shall not assign by power of attorney or otherwise, nor sublet the work or any part thereof, without the previous written consent of the City, and shall not, either legally or equitably assign any of the money payable under this agreement, or his claim hereto except by and with the consent of the City.

Assigning or subletting of the whole or any portion of this contract shall not operate to release the Contractor or his bondsmen or surety hereunder from the contract obligations.

(5) **Subsidiary Contracts:** The Engineer may, when in his opinion, it becomes necessary, make alterations or modifications of the plans and specifications, or order additional materials and work, subject to the approval of the Director; and the Contractor shall be obliged to accept such alterations, modifications and additional work and materials not included in this contract. The price to be paid for the work under such altered or modified contract shall be agreed upon in writing, in a subsidiary contract for such portion of, or additional improvement and signed by the Director and Contractor, before such work is done; such additional work, alteration or modification shall be considered and treated as though originally contracted for and shall be subject to all the terms, conditions and provisions of the original contract, except that a material increase in the amount of work will be considered as a proper claim by the Contractor for an extension of the contract time for completion, by an amount to be determined by the City.

And it is expressly agreed and understood that such alterations, additions or modifications or omissions shall not, in any way, violate, or annul the original contract and the Contractor hereby agrees not to claim or bring suit for any damages, whether for loss of profits or otherwise, on account of such alterations, additions, modifications or omissions.

(6) **Permits:** The Contractor shall obtain and pay for all construction permits and licenses. City shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of opening of Bids, or, if there are no Bids, on the Effective Date of the Agreement. City shall pay all charges of utility owners for connections for providing permanent service to the Work.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

(7) **Inspection:** No material of any kind shall be used in the work until it has been inspected and accepted by the City. The Contractor must furnish all labor necessary in handling such material for inspection. All materials rejected must be immediately removed from the vicinity of the work. Materials or workmanship found at any time to be defective shall be immediately remedied by the Contractor, regardless of previous inspection.

The Engineer, his assistants, inspectors and agents, together with other parties who may enter into contracts with the City for doing work within the territory covered by this contract, shall, for all purposes which may be required by their contracts, have access to the work and the premises used by the Contractor, and the Contractor shall provide safe and proper facilities therefor.

The Engineer, his assistants and agents shall at all times have immediate access to all places of manufacture where materials are being made for use under this contract, and shall have full facilities for inspecting the same.

No work shall be done except in the presence of the Engineer, his assistants, agents or inspectors. It shall be the duty of such agents or inspectors to see that all materials used and all work done shall be strictly in accordance with these specifications, but such agents and inspectors shall have no authority whatsoever to order any change in materials, manner of doing the work or quantity of work done.

The field inspection of the work, testing of materials, giving lines and grades, preparation of general and detail drawings, except as otherwise specified, will be done by the Engineer. The inspection and supervision by the Engineer is intended to aid the Contractor in supplying all materials and in doing all work in accordance with the drawings and specifications, but such inspection shall not operate to release him from any of his contract obligations.

(8) **Time for doing work:** The City is instructing the Contractor to base the project schedule upon a 5-day work week, Monday through Friday from 7:30 am to 4:00 pm except on City recognized holidays; this is the "standard schedule." The Engineer may direct the Contractor to work outside of the standard schedule to save life or property or in case of emergencies. If the Contractor wishes to work outside of the standard schedule, the Contractor must submit this request in writing to the Engineer. The Engineer will review nonstandard scheduling and approve/deny the request. The Engineer will base his approval/denial upon benefit to the project, benefit to the City, and necessity to facilitate Contractor operations. Contractor must make special provisions for project inspection for nonstandard schedules and will be required to pay for all costs associated with inspection for approved nonstandard schedules. This includes both City personnel as well as consultants representing the City. The Engineer shall determine method of payment when the need arises.

(9) **Working Season:** Work done under these specifications, such as grading of streets and placing foundation for paving, curb setting, brick or other roadway paving, sidewalk laying, shall cease from the first day of December until the first day of April of the following year, unless otherwise directed by the Engineer.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

(10) **Lines and grades:** All work done under this contract shall be done in accordance with the lines, grades and instructions as given by the City and as directed in the plans.

(11) **Order of procedure of work:** The Contractor shall proceed with the work at such points as the Engineer may direct, and not more than two adjoining blocks or squares in length, shall be torn up at the same time, unless otherwise directed by the Engineer; nor shall any block be closed to traffic, except where the Contractor is actually working.

Whenever, in the opinion of the City, it is necessary that certain portions of the work be done immediately, the Contractor, upon written order from the Engineer, shall proceed with such work without delay. Should he fail to so proceed, the City may do, or cause to be done, such work, and the cost of the same will be deducted from any money due, or to become due the Contractor under this contract.

(12) **Incompetent workmen:** Any employee of or persons connected with the Contractor who shall use profane or abusive language to the inspector, or other employees of the City, or otherwise interfere with them in the performance of their duties, or who shall disobey or evade the instructions of such employees of the City, or who is careless or incompetent, or who is objectionable to the City authorities, shall be discharged at the request of the Engineer, and shall not again be employed, except with his consent. Skilled labor only shall be used in the cases where the same is required.

(13) **Suspending the work:** The City, on account of public necessity, adverse weather conditions, or for other reasons, may order any portion or all work suspended, and thereupon the Contractor shall neatly pile up all materials, provide and maintain board walks and crossings, and take other means to properly protect the public and the work and to facilitate traffic. In case of such suspension of work, the time allowed for the completion of the work shall be extended in an amount equal to that lost by the Contractor, but the Contractor shall be entitled to no additional claim for damages therefor.

(14) **Forfeiture of contract:** Should the work to be done under this contract be abandoned by the Contractor, or if this contract or any part thereof be assigned or the work sublet by him without the previous written consent of the City or if at any time any official of the City or employee thereof become directly or indirectly interested in this contract or in furnishing the supplies or performing the work hereunder, or in any portion thereof; or if at any time the City may be of the opinion that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is willfully violating any of the provisions of this contract; or if the work be not fully completed within the time named in the contract; then and in any such case the City may notify the Contractor in writing to discontinue all work or any part hereof as may be designated, and the City may thereupon, according to law, enter upon and take possession of the work or part thereof, complete, or cause the same to be completed, and charge the entire expense of so completing the work or part thereof to the Contractor; and for such completion, the City itself or for its Contractors, may take possession of and use or cause to be used any materials, machinery, or tools of every description provided by the Contractor for the purpose of this work, and may procure or cause to be procured other materials, machinery, or tools required for the completion of the work.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

All cost and expenses, including those of re-letting, (and damages resulting from the non-completion of the work within the specified time) incurred under these clauses, or by virtue of this contract, shall be deducted and paid by the City out of any monies then due or to become due the Contractor under and by virtue of this contract or any part thereof. In case such cost and expenses shall exceed the amount which would have been payable under this contract if the same had been completed by the Contractor, the Contractor or his sureties shall pay the amount of such excess to the City; and should such expense be less than the amount payable under this contract had the same been completed by the Contractor, he shall receive the difference, after deducting the amount retained as hereinafter specified, but shall not be entitled to damages for not being allowed to complete the work himself.

In case of abandonment of the work by the contractor, or its termination by the City, the Director of Public Service shall at once cause the work already done under this contract to be measured. Five percent (5%) of the value of the amount thus shown will be set aside as a retainer under the provisions hereof. In such case no money, due or payable to the Contractor under this contract after the annulling of the same, shall be paid until the work is completed, accepted, and all claims and suits by reason of said work have been finally settled. The retained five percent (5%) shall be held for the full guaranty period, as specified herein and used as provided in other provisions hereof, for keeping in repair so much of the work as was done or completed under this contract.

(15) Storing materials delivered on work: All materials required in the work may be placed on the sides of the roadway, or parking area, or upon a portion of the sidewalk along the sides of the roadway to be improved and upon adjoining portions of intersecting streets, as directed by the Engineer; but all such materials shall be neatly and compactly piled in such a manner as to cause the least inconvenience to the property owners and the general public. All fire hydrants must at all times be kept free and unobstructed; water and gas shut off boxes must be left uncovered by such materials; and passageways must be left for store entrances, private driveways and street intersections.

No materials, tools or machinery shall be piled or placed against shade trees unless they be amply protected against injury therefrom, and all shade trees and other improvements must be protected from injury caused by the storing of materials or otherwise during the prosecution of the work.

All materials, tools, machinery, etc. stored upon public thoroughfares must be provided with red lights at night time, and danger signals by day, to warn the traffic of such obstructions.

(16) Storage of materials, tools and machinery during suspension of work: Upon the suspension, stoppage, or abandonment of the work, or any part thereof, all materials shall be neatly and compactly piled, and all tools and machinery so located as not to impede public traffic on roadways, sidewalks and crosswalks unnecessarily. All such stored materials, tools and machinery shall be provided with danger signals by day and red lights by night.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

(17) **Ownership of old materials:** All old curbing, stone walk, paving brick, brick crosswalks, gutter paving bricks, gutter plates and culverts, sewer pipe, iron pipe and castings, are the property of the City and all such materials as are not ordered replaced, shall be removed by and at the expense of the Contractor, to such places as the Engineer may direct. If the Engineer chooses to not accept such materials, the Contractor must dispose of them at no cost to the City.

(18) **Plans, profiles, and specifications:** The plans, profiles and specifications are intended to be explanatory and supplementary of each other, but should any discrepancy appear or misunderstanding arise as to the import of anything contained in either, the explanation of the City shall be final and binding on the Contractor. Any correction of errors or omissions in the plans, profiles and specifications may be made when such corrections are necessary for the proper fulfillment of their intentions as construed by the City.

Any correction in the plans, drawings, and specifications made pursuant to the provisions of this paragraph shall not be retroactive, but shall take effect at the date of notification to the Contractor of such correction.

The City will furnish the Contractor with up to three (3) sets of additional copies of the plans (full size or half size, if available) as may be required, for the construction of the work herein specified.

(19) **Private rights of way:** Whenever it is required as a part of this contract to perform work within the limits of private property or private right of way, such work shall be done in conformity with the agreements between the City and such owners, and whether or not such a condition be a part of this agreement, care shall be taken to avoid injury to the premises entered, which premises must be left in a neat and orderly condition by the removal of rubbish and surplus materials and restoring vegetation to meet or exceed pre-contract condition.

(20) **Injunctions:** If legal obstructions to the prosecution of the work arise, the delay shall operate to extend the time allowed for the completion of the part or parts of the work obstructed, for the length of time obstruction continues and no longer, but no damages shall be claimed or allowed the Contractor for any such delay.

(21) **Related Work at Site:** City may perform other work related to the Project at the Site with City's employees, or through other direct contracts therefor, or have other work performed by utility owners. If such other work is not noted in the Contract Documents, then:

1. written notice thereof will be given to Contractor prior to starting any such other work; and
2. if City and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a Claim may be filed.

Contractor shall afford each other contractor who is a party to such a direct contract, each utility owner, and City, if City is performing other work with City's employees, proper and safe access to the Site, provide a reasonable opportunity for the introduction and storage of materials

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

and equipment and the execution of such other work, and properly coordinate the Work with theirs. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering such work; provided, however, that Contractor may cut or alter others' work with the written consent of Engineer and the others whose work will be affected. The duties and responsibilities of Contractor under this Paragraph are for the benefit of such utility owners and other contractors to the extent that there are comparable provisions for the benefit of Contractor in said direct contracts between City and such utility owners and other contractors.

If the proper execution or results of any part of Contractor's Work depends upon work performed by others, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

(22) **Attested accounts:** In case any person who has performed labor or has furnished materials, tools, or machinery for the work herein specified, he may file sworn itemized statement of the amount of value therein, as required by law, and if such claims be not disputed by the Contractor, or if the same are disputed, after the amount and validity have been determined by law, the City may pay the amount of such claims out of any money due the Contractor under this contract.

(23) **Authorized Variations in Work:** City may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on City and also on Contractor, who shall perform the Work involved promptly. If City or Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, then the City or Contractor must provide written notification prior to performing the Field Order. If the parties are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made.

(24) **Claims for extra materials and work:** All claims for furnishing extra materials, or for doing extra work, for which the Contractor may consider himself entitled to receive extra compensation, must be presented to the Director of Public Service in writing, at the time the cause for such claim arises. Such statement must contain an itemized account of such materials and labor required, and unless such claim is so presented, it is expressly agreed, by the parties to this contract, that the Contractor has waived such claim, and that he shall not be entitled, subsequently to claim, or receive any pay for the same. No claim for extra labor and material shall be allowed, unless the necessity therefor has first been determined by the Director and the price to be paid therefor has been agreed upon, in writing, before such additional materials have been used, and such additional labor performed. See Change Order Policy in the Appendices for more information.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

(25) **Claims for damage for omission or delays:** If any change or alteration involves the omission of any materials or work called for in the original plans and specifications, any claim for loss of profits, or any other cause growing out of any such omissions is hereby expressly waived by the Contractor.

No claims for prospective profits will be allowed, by reason of the inability of the City to proceed with all, or any part of the work provided for in this contract; nor for damages by reason of any delay on the part of the City, but any such delay shall entitle the Contractor to a corresponding extension of time for the completion of the work. See Claims Management Policy in Section V for more information.

(26) **Damages to property:** All damages to lawns, fences, trees, buildings, sidewalks, water, sewer or gas pipes, or other public or private property along or near the line of work, or the vicinity thereof, if the same are occasioned through neglect or failure on the part of the Contractor, or that of any person in his employ, to take all necessary precautions to prevent the same, must be replaced or made good by him, to the satisfaction of the owners of same and at his cost and expense whenever the Engineer may so direct.

(27) **Liability of contractor for injuries, patents, etc.:** It is expressly understood and is hereby agreed that the whole of the work to be done is at the Contractor's risk. The contractor assumes by bidding under these specifications, the full responsibility and risk of all damages to the work itself, the property along the line of the work, injury to persons or animals which may be occasioned by floods, stoppage of water in sewers or gutters, caving in of surface of grounds or trenches, neglect in properly protecting work by barricades, etc., or any manner whatsoever. He shall bear all losses resulting to him on account of character of the work, or because the nature of the ground in or on which the work is done, is different from what was estimated or expected, or as may have been indicated by borings or test pits, or on account of the weather, actions of the elements or other causes.

He shall assume the defense of any indemnity and save harmless the City and its individual officers and agents from all claims relating to labor and materials furnished for the work to inventions, patents and patent rights used in doing the work, to injuries to any person or corporation received or sustained by or from the Contractor and his agents and employees in doing the work, or in consequence of any improper materials, methods, implements or labor used therein, or by reason of any condition in the improvement created by the Contractor or for any other liability therefor.

The Contractor, if required at any time by the Director, shall furnish the City satisfactory evidence that all persons who have claims for labor performed or material furnished hereunder, or have suffered damages on account of his operations, have been fully paid or secured. And in case evidence be not furnished as aforesaid and such amounts as the Director may consider necessary to meet lawful claims of persons aforesaid, shall be retained from the monies otherwise due the Contractor hereunder, until the liabilities shall have been fully satisfied.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

If the Contractor shall claim compensation for any damages sustained by reason of the acts of the City, he shall within five (5) days after the sustaining of such damages, present a written statement to the City of the nature of the damage sustained. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, he shall file with the City an itemized statement of the details and amount of such damage, and unless such statement shall have been filed as thus required, his claim for compensation shall be forfeited and invalidated, and he shall not be entitled to any payment on account of such damage.

The statement of any specific duty or liability of the Contractor in any part of the specifications shall not be construed as a limitation or restriction upon any general liability or duty imposed upon the Contractor by these specifications, said reference to any specific duty or liability being merely for the purpose of explanation.

(28) **Safety measures -- barricades:** The Contractor must provide and maintain barricades to properly protect persons, animals, vehicles and property against injury. He shall also provide, place and maintain sign boards, letter "STREET CLOSED" in plain legible type, upon the streets and alleys in which the work is in progress and upon each street and alley intersection therewith at a distance of one block therefrom, as may be directed by the Engineer.

(29) **Traffic regulations:** The Contractor is responsible for all traffic control on the project whether or not it is called out in the detailed specifications or plans. All traffic control must comply with appropriate City, State, and Federal rules, regulation, and guidelines. During the progress of the work, the Contractor shall accommodate both the vehicular and foot traffic and shall maintain free access to fire hydrants, water and gas valves. Gutters and water ways must be kept open and other provisions made for the removal of storm water.

During the construction of the sewer work and other ditches, only one-half of the street intersections may be blocked at one time and the Contractor shall provide and maintain temporary driveways, bridges, and crosswalks over sewer and other trenches, such as, in the opinion of the Engineer in charge of the work, are necessary to reasonably accommodate the public.

To accommodate pedestrians during the progress of the work, the Contractor shall provide and maintain crosswalks on that portion of the street being improved, both across the main roadway and at the street and alley intersections. The crosswalks shall be constructed of planks two (2) inches thick, and within the fire limits of the City, they shall be at least five (5) feet wide, and outside the fire limits at least three (3) feet wide.

When the City deems it advisable or necessary to divert traffic from the work or any portion thereof, the Contractor shall provide and maintain detour signs, letter "DETOUR" in plain and legible type, and indicating the direction to be taken by traffic as directed by the Engineer.

In the event of the Contractor's failure to comply with the above provisions relative to traffic regulations, the City may cause said provisions to be carried out and the cost and expense of such work shall be deducted from any money due the Contractor under this contract, but the performance of any such work by the City, or at its insistence or request, shall in no way release the Contractor from his general or particular liability for the failure to provide for the safety of

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

the public or the work under this contract.

The Contractor shall not place any material on any sidewalk so as to interfere with the free access to any crosswalk by pedestrians.

No additional compensation will be paid to the Contractor by the provision and maintenance of bridges, crosswalks, etc., as above specified, but the cost and expense of maintaining the same shall be considered as part of the general contract and shall be included by the Contractor in the prices bid by him upon the several items as named upon the proposal therefor.

(30) **Hauling materials on paved streets:** During the progress of the work and in the cleaning up thereof, the Contractor shall provide and use vehicles in which the excavated or other materials are hauled over paved streets in the City, with tight bodies for transportation of fine materials and shall not overload the same so as to allow such materials to fall off the tops thereof upon the streets. The paved streets over which such material is hauled must be kept free from dirt and other materials in accordance with the provisions of City Ordinance regulating same.

(31) **Cleaning up during the progress and completion of work:** During the progress of the work the Contractor shall remove all surplus excavated materials, obstructions, old materials not used, trees, stumps, filth or rubbish of any kind that may be encountered in the execution of the work, at his own cost and expense except when the removal and transplanting of trees be specified and bids therefor are required upon the blank proposal attached thereto.

As fast as any portion of the work, such as the construction of sewers or drains not located in the street or streets to be improved under the contract is completed, the backfilling of trenches and the repaving over the same shall be done as soon as possible, as herein specified.

As fast as the roadway pavement is completed, the Contractor shall remove all rubbish and surplus materials which have accumulated during the progress of the work provided herein, from the new or existing sewers, the roadway, sidewalk space and intersecting streets and shall render the streets suitable, safe and convenient for traffic.

Upon the completion of the improvement and before the final acceptance thereof, the Contractor shall remove all machinery, tools, temporary building and shall clean the pavement, curb and sidewalks in such a thorough and effective manner by hand sweeping, scraping or by flushing, according to kind of pavement or condition of the street, as will be determined by the Engineer, so as to leave the entire surface of the pavement, curbs and sidewalks so exposed that the quality and texture of the materials used and workmanship may be readily determined. He shall also remove all centering, scaffolding and accumulations of sand, earth, materials, and rubbish of all kinds from the sewers, manholes, inlets, and catch basins. If the improvement is completed too late in the fall to permit all of the cleaning up as herein specified, that portion not completed shall be done the following spring within ten (10) days after written notice to do so from the Engineer.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

All such cleaning and removal of cleanings shall be done by the Contractor and the cost and expense thereof shall be included in his price for furnishing of materials and laying of pavement.

In case the Contractor shall fail or neglect to do any cleaning within forty-eight (48) hours after the receipt of notice to do so, or in the manner specified, the Director of Public Service may and is hereby authorized to cause the same to be done and charge the cost and expense thereof to said Contractor and deduct the amount of such cost and expense from any estimate due him at any time thereafter.

(32) **Existing surface fixtures and structures:** At least forty-eight (48) hours before breaking ground, the Contractor shall notify all the City Departments and public service corporations, whose tracks, wires, pipes, conduit or other structures may be affected by his operations. He shall likewise notify the Chief of the Fire Department of the temporary blocking of any street.

Existing surface structures which may be encountered in the work shall be removed and replaced or maintained by the Contractor at his cost and expense, or by the parties interested, and in such a manner as to secure the safety of the public and structure. The use of pipes, conduits, etc. shall not be interrupted without the consent of the parties owning or controlling the same.

(33) **Existing sub-surface fixtures and structures:** Existing sub-surface structures encountered in the work shall be protected and maintained in complete operation, unless permission is given for their removal. Existing substructures, including old sewers, abandoned sewers, abandoned drains, etc., which may appear within the limits of the excavating, shall be removed, if required by the City, but such removal will not be paid for separately, except when expressly specified, being paid for in the price for excavation or other items including excavation.

In case the uncovering of sub-surface structures necessitates a change in the alignment of grade of the proposed work, the Contractor shall give immediate notice of such obstruction to the Engineer, and shall cease work at such points until ordered to proceed.

And in case any change of grade or alignment shall delay the work, the time allowed for the completion of the contract will be extended to the extent which the delay shall have operated, the decision of the Engineer upon this point being final.

(34) **City may construct sewers, drains, etc.:** The City reserves the right to suspend or stop the work on all or any part of the progressing improvement, for the purpose of laying, relaying or allowing to be laid, or re-laid, any sewers, drains, gas pipes, water pipes, conduits or appurtenances thereto, which, in the opinion of the Director of Public Service are necessary or expedient, or for any other reason, and at any stage of the work, and the Contractor shall not interfere with or place any impediment in the way of any person or persons engaged in such work; and in such cases the Contractor shall not be entitled to any damages or recompense, either for digging up the street, or delay or hindrance, but the time of completion shall be extended as many days as the delay shall have operated.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

It is the intention of the City to require all property owners to have water and sewer connections made to all lots, and to cause to be laid all water mains, gas mains, sewers and sewer connections, and other pipes, conduits, etc., not included in the contract hereunder, in advance of the improvement, except when in the opinion of the Director of Public Service such procedure be impracticable and the Contractor shall not be entitled to damages or recompense by reason of delay or hindrance, but he shall be granted an extension of time equal to that in which the delay shall have operated, as determined by the Director of Public Service.

If the Contractor hereunder finds that the trenches are not properly backfilled, he shall so notify the Engineer in writing, allowing ample time to have the defects remedied before proceeding with the improvement.

The Contractor may exercise the right to such supervision of the work, as he may deem necessary to insure good material and workmanship, in order that he may properly protect himself from defects in the finished pavement for which he will be responsible under his guaranty. The Contractor will be allowed and paid for any additional materials, the use of which is made necessary on his part by reason of the above specified work, such reasonable sum (not to exceed contract price) as may be agreed upon in writing between himself and the Director before such additional materials be used, and in the manner specified for subsidiary contracts.

(35) **Special repairs:** The City reserves the right, whenever in its judgment, to take up or permit the taking up of any part of the improvement during the progress of the work, or subsequent to the completion thereof and during the period of guaranty for the purpose of constructing, repairing, or renewal of any sewers, drains, water or gas pipes, or other improvements. Whenever any part of the improvement is taken up as herein specified, all the work of restoring the same will be done by or under the direction of the City and the Contractor hereunder will be relieved of any maintenance requirements on that portion of the completed improvement so disturbed.

(36) **Rejecting Defective Work:** The City will have authority to reject Work which the City believes to be defective, or that the City believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. The City will also have authority to require special inspection or testing of the Work whether or not the Work is fabricated, installed, or completed.

(37) **Use of city water supply:** The City will furnish water at the hydrants for the purpose of puddling trenches, construction purposes, operation of machinery, mixing concrete, mortar, etc., but the cost of water and the proper facilities for conveying the same from the hydrants must be included by the Contractor in the unit prices bid for the various items of work wherein water will be used. All water used must pass through meters installed by the Water Department at its hydrants and subject to its regulation and paid for at the builder's rate per one thousand (1,000) cubic feet of water consumed, as established by said Department, plus the cost of meters and installation of same. A deposit will be required covering the cost of meter and installation thereof, which deposit of cost of meter will be refunded on return of meter in good condition.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

The Contractor must notify the Water Department at least forty-eight (48) hours in advance of the time such installation is required.

(38) **Use of sewer:** At any time during the progress of the work the City may, by written notice to the Contractor, take over and utilize the whole or part of any sewer, drain or appurtenance thereof which has been completed, giving if desired, permits to tap and connect therewith. In such event, the Contractor shall be relieved from the maintenance of such part as may be used except as provided under the section "Guaranty" and such will be deemed as final acceptance by the City of the part or parts used, subject to the responsibility of the Contractor for all defects in workmanship, etc., as provided under the "Guaranty" section of these specifications.

(39) **Sanitary regulations:** Necessary sanitary conveniences for the use of the laborers on the work, properly secluded from public observation, shall be constructed and maintained in a sanitary condition by the Contractor in such manner and at such points as shall be approved, and their use shall be strictly enforced.

(40) **OSHA standards:** It is the City's requirement, under OSHA Regulations, that all outside contractors hired by the City of Canton are and will be in full compliance with all OSHA standards and perform said work in accordance with all applicable OSHA standards.

(41) **Laws and ordinances:** The Contractor shall keep himself fully informed of all laws, municipal ordinances and regulations that in any manner affect the persons engaged in or employed upon the work, or the materials used in the work, or any way affecting the conduct of the work, and of the decrees of the bodies or tribunals having jurisdiction or authority over the same. He shall also himself observe and comply with and shall cause all of his agents and employees to observe and comply with all such existing and subsequent laws and ordinances, regulations, orders and decrees, and to protect and indemnify the City against claim or liability arising from or based upon the violation of such laws, ordinances, regulations, orders or decrees by himself or by his agents or employees.

References to special laws and ordinances in other sections of this contract shall in no way relieve the Contractor from compliance with all the provisions of this section.

(42) **Monuments and landmarks:** The Contractor shall preserve intact all City monuments, benchmarks and landmarks, as shown upon the plans or encountered in the excavation. In such case that such monument, benchmark or landmark not shown on the drawings be encountered in opening the excavation, the Contractor shall stop work at such point, immediately notify the Engineer of such findings and not disturb same until directed to do so by the Engineer.

(43) **Prices:** The City shall pay and the Contractor shall receive the prices hereafter stipulated as full compensation for everything furnished and done by the Contractor under this contract. This shall include all incidental work required but not specifically mentioned, and also for all loss or damage arising out of the nature of the work, or from the action of the weather, floods, or from unforeseen obstruction or difficulty encountered in the prosecution of the work, and for the expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, and for well and faithfully completing the work and the whole thereof, as herein

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

provided, together with the remedying of all defects developing during the prosecution of the work and during the period for which the work is guaranteed.

(44) **Allowances:** It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to the City.

Cash Allowances: Contractor agrees that:

- a. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and
- b. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.

Contingency Allowance: Contractor agrees that a contingency allowance, if any, is for the sole use of the City to cover unanticipated costs.

Prior to final payment, an appropriate Change Order will be issued as recommended by the City to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

(45) **Starting and completing the work (Contract Duration):** The Contractor shall not start the work embraced in this contract before the date of a written notification from the Engineer, and shall commence at such points as the City may direct.

If the work done under this contract conflicts with other work done for or by the City, or with its consent, the City shall determine the time and manner of procedure of the operations carried on under this contract.

The duration of this agreement for the completion of the work embraced in this contract shall be **203 days (both phases combined)** from the Notice to Proceed date. The City will use ODOT Specification 108.06 through 108.09 in regards to delays and time extensions.

Contractor is responsible for any additional costs due to weather-sensitive construction, such as, but not limited to, protecting concrete from freezing, heating of water as needed, etc. as well as insuring that all materials used satisfy appropriate specifications such as, but not limited to, asphalt temperature specifications, non-frozen backfill material, etc.

The permitting of the Contractor to complete the work or any part thereof, after the time fixed for its completion, shall in no way operate as a waiver on the part of the City of any of its rights under this contract.

(46) **Liquidated Damages and Paving Time Restrictions:** The Contractor guarantees that he can and will complete the work on or before the time affixed in his bid, or on or before the extended time as provided for in the contract. The payment to the City for such delay and failure

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

on the part of the Contractor shall be Six Hundred Dollars (\$600.00) for each day by which the Contractor fails to complete the work, or any part (including Interim) thereof, in accordance with the provisions of the contract. The City will deduct and retain, from any money due or any money to become due under the contract, the amount of the liquidated damages. The Contractor shall be liable for the payment of the difference upon demand of the City.

All asphalt paving must take place on the city's road surfaces from May 1st to October 1st; and/or during optimal climatic conditions that are conducive to the best mix compacting and long term durability of the pavement, according to the highest and best practices of the asphalt paving industry. The City will deduct and retain, from any money due or any money to become due under the contract Six Hundred Dollars (\$600.00) for each day by which the contractor fails to pave within the stated time restrictions. The Contractor shall be liable for the payment of the difference upon demand of the City.

(47) **Samples:** Each bidder shall submit samples of materials, or refer to samples of materials furnished by the Manufacturer or Producer, at the time of submitting the bid, as required in detail specifications under each item, for which bids are received. Whenever samples of any material or workmanship have been filed by the Contractor, or are on file as specimen of the work to be done or materials to be furnished for the work herein specified, such samples shall be the standard by which that kind and class of work shall be judged.

(48) **Measurements:** The contract will not use extra or customary measurements of any kind, unless specially noted, in measuring the work under these specifications; the length, area, solid contents or number only, are considered as a basis for payment as hereinafter specified.

The measurements as made by the City of the amount of the work done shall be final and conclusive.

Payments will be made upon the work done within the lines prescribed by the plans, drawings or specifications, and in accordance with the unit prices for the items under which the work is done. Nothing therein contained depriving the City of any remedy or defense it may have under the same, for violation of the terms or conditions of this agreement.

(49) **Partial payments:** The Contractor shall, on a day of each calendar month as is mutually agreeable to the Contractor and the City, make an approximate estimate of the quantities and prices of the labor furnished and the materials incorporated into the project during the previous calendar month and forward such estimate to the Engineer for approval. More frequent estimate submission, at the option of the City, may be made at any time during the progress of the project.

Partial payments to the Contractor for work performed for a lump sum price shall be based on a well-balanced schedule prepared by the Contractor and approved by the Engineer which schedule shall apportion the lump sum price to the principal features entering into or forming a part of the work covered thereby.

The City shall pay the Contractor monthly, not less than the difference between the amount of each monthly estimate which has been approved by the Engineer and the sum of retainage and/or

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

any other amounts which the City is authorized by the contract to withhold. The making of any monthly payment shall not be taken or construed as approval or acceptance by the City of any work included in the estimate upon which such payment is based.

Payment shall be made and retainage kept in accordance with applicable sections of Chapter 153 of the Ohio Revised Code.

To aid in determining quantities of materials for pay, the Contractor shall, whenever requested by the Engineer, provide scales, equipment and assistance for weighing or for measuring such materials.

For estimating quantities in which computation of areas by geometric methods would be comparatively laborious, the City agrees that a planimeter or other agreed upon method may be used.

(50) Change of Contract Price: The Contract Price may only be changed by a Change Order. Any Claim for an adjustment in the Contract Price shall be based on written notice submitted by the party making the Claim to the City and the other party to the Contract.

The value of any Work covered by a Change Order or of any Claim for an adjustment in the Contract Price will be determined as follows:

1. Where the Work involved is covered by unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved; or
2. where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with ODOT's Force Account procedures; or
3. Where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under previous paragraph, on the basis of ODOT's Force Account procedures.

Contractor's Fee: The Contractor's fee for overhead and profit shall be determined as follows:

1. a mutually acceptable fixed fee; or
2. if a fixed fee is not agreed upon, then the fee shall be based upon ODOT's Force Account procedures.

(51) (52) Pre-final and final estimates and payments: As soon as practicable after the completion of work under the contract, the Engineer will perform a formal inspection of the project. If the project appears to be acceptable, the Engineer will recommend tentative acceptance thereof and make a pre-final estimate of the amount of the work done by the Contractor based on quantities and prices submitted by the Contractor. Upon such certified pre-final estimate, the City will pay the Contractor all funds owed under the contract pending final acceptance of the project and submission of all required documentation deducting expenses of correcting any deficiencies in the work as determined by the Engineer. Such final inspection and

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

payment will not discharge the liability of the Contractor under the contract or of the surety under the contract bond, but such liabilities and all guarantees shall remain in effect for the period fixed by law.

(53) **Additional contract:** It must be distinctly understood that should more than one contract be awarded to the same Contractor, he may be required to prosecute the work upon all of them at one and the same time. At the option of the Director, and he shall not be permitted to transfer men, tools, or machinery from one job to another without the consent of the Engineer. The contractor shall at all times have a competent foreman and a sufficient number of men, tools, and machinery upon each job, at the same time, as well, in the opinion of the Engineer, be sufficient for the proper prosecution of the work.

(54) **Insurance:** The Contractor shall at all times during the progress of the work, comply with all the provisions of the laws of Ohio relating to workmen's compensation and State insurance fund for the benefit of injured and the dependents of killed employees. The Contractor shall at all times during the progress of the work carry accident liability insurance in an amount sufficient to reasonably indemnify himself against loss from claims for personal injuries or fatal accidents occurring upon the work or caused thereby including injuries and accidents to employees of the Contractor, persons engaged on the work under another contractor, employees of any sub-contractor or other engaged on or about the work and the public. The City reserves the right to annul this contract at any time upon receiving evidence of the Contractor's failure to comply with the statutes as described above.

(55) **Last payment to terminate liability of City:** No person or corporation, other than the signer of this contract as Contractor, has now any interest hereunder, and no claim shall be made or be valid, and neither the City nor its agents shall be liable for, or be held to pay any money, except that provided in this contract. The acceptance by the Contractor of the last payment made as aforesaid shall operate as and shall be a release to the City and agents thereof, from all claims and liability to the Contractor for anything done or furnished for, or relating to the work, or for any act or neglect of the City or of any person relating to or affecting the work, except the claim against the City for the remainder, if there be any, of the amount kept or retained.

(56) **Guaranty:** The Contractor, for and in consideration of the monies received and to be received by him, hereby agrees that the repairs of all defects in the work done and completed under this contract arising, in the opinion of the Director, out of the use of defective materials, settlements of sewers, structures, and foundations or improper workmanship in the construction thereof, and which repairs from such causes may become necessary during the period of years, as set forth below, after the date of the approval by the Director of the Engineer's certificate of the "FINAL COST", shall be made by him without cost and expense to the City, and the Contractor agrees to make such repairs when, and as ordered by the Director, by written notice served upon him and if after having received such notice, the Contractor fails to make such repairs within the number of days stated in such notice, from the date of receipt thereof, the Director shall thereupon have the power to cause said repairs to be made and charge the cost and expense thereof to the Contractor or his surety.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

The failure of the Director to give notice within the specified period shall not preclude the operation of this section.

The guaranty periods referred to above in this section shall be as follows:

Piles and Anchors require a 5 year warranty and 75 year design life

C.I.P.P. Rehabilitated Sewers, 2 years

Concrete curbing, 1 year

Concrete sidewalks, 1 year

Concrete masonry, 1 year

Brick masonry, 1 year

Sewers, waterlines, manholes, catch basins, 1 year

Asphaltic concrete pavement, 1 year

Concrete foundation, 1 year

(57) **No estoppel:** The City shall not be precluded or estopped by any return or certificate made or given it, from showing at any time, either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, the true and correct amount and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with the specifications.

Neither the acceptance by the City, nor any order, measurement, or certificate, by the City, nor any order for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the City, nor any extension of time, nor any possession taken by the City, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reversed to the City, or any rights to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Section III: Additional Requirements and/or Conditions

- A. Notwithstanding any provisions to contrary, Ohio Law shall govern this Agreement.
- B. Contractor agrees that Canton's specifications and bid documents shall incorporate and be made part of any subsequent contract entered by the parties.
- C. Once both parties have fully executed the contract, said contract shall be binding upon the parties' heirs, successors and assigns.
- D. Contractor shall not assign or transfer any interest under this agreement without the express written consent of Canton.
- E. Contractor agrees to indemnify and hold harmless the City of Canton, Ohio, its employees and agents from and against all demands, claims, causes of action, or judgments or omissions by Contractor, its agents, employees or subcontractors. Nothing herein shall be construed to hold Contractor liable for Canton's negligence.
- F. Contractor's liability to the City of Canton for default shall not be limited and the City of Canton shall be entitled to all damages permitted under Ohio law upon Contractor's breach, default or non-performance under this Agreement.
- G. A waiver of a breach of any of the terms or conditions of the contract will not be construed as a waiver of any subsequent breach. Any consent to delay in the performance of contractor of any obligation shall be applicable only to the particular transaction to which it relates, and it shall not be applicable to any other obligation or transaction. Delay in the enforcement of any remedy in the event of a breach of any term or condition of the contract or in the exercise by either party of any right under the contract shall not be construed as a waiver.
- H. When, during the course of construction, it appears to the contractor that any work does not conform to the provisions of the contract documents, it will make necessary corrections so that such work will conform. Additionally, the Contractor will correct any defects caused by faulty materials, equipment or workmanship in work supervised by the Contractor or by a subcontractor. This shall apply to the Contractor or any subcontractor appearing within one year from the date of issuance of a certificate of substantial completion or within such longer periods as prescribed by law or by applicable special guarantees or warranties in the contract documents.
- I. The owner reserves the right to order work changes in the nature of additions, deletions, or modifications, without invalidating the contract, and agrees to make corresponding adjustments in the contract price and time of termination if necessary. The Owner will authorize all changes by a written change order signed by the owner, or the architect of other designee of the owner. The change order will include conforming changes in the contract and termination time.
- J. Work changed, and the contract price and termination time modified can be modified only as set out in the written change order. Any adjustment in the contract sum resulting in a credit or a charge to the owner will be determined by mutual agreement of the parties before starting any work involved in the change order.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Section IV: City of Canton Codified Ordinances

Bidders shall take notice that they are to comply with the Codified Ordinances of the City of Canton, including but not limited to, the following:

- 1. Chapter 105.02 – Public Paving Time Restrictions.**
All City public paving contracts shall include a provision for liquidated damages in order to provide the City reasonable compensation for actual damages due to a failure to ensure that asphalt paving take place on the City's road surfaces from May 1st to October 1st; and/or during optimal climatic conditions that are conducive to the best mix compacting and long term durability of the pavement, according to the highest and best practices of the asphalt paving industry.
(Ord. 270-2014. Passed 12-29-14.)
- 2. Chapter 105.03 – U.S. Steel Usage Required; Exception.**
All City contracts shall stipulate or provide that all steel necessary in the construction of any work performed under such contracts shall be steel that is produced in the United States unless a specific product which is required is not produced by manufacturers in the United States in which event this prohibition does not apply. This section shall apply to only contracts awarded by the Board of Control of the City.
(Ord. 224-77. Passed 6-27-77.)
- 3. Chapter 105.05 – Materials to be Purchased Locally.**
In all future contracts for the construction of buildings, structures, or other improvements under the Capital Improvement Budget, the following clause shall be printed or typewritten on each contract:
It is the desire of the City of Canton that all materials used in the construction covered by this contract shall be purchased in the Canton area except such materials which are unavailable in the Canton area.
(Res. 49-77. Passed 2-7-77.)
- 4. Chapter 105.06 – Minority Contract Provision.**
a. All contracts with the City shall include the following clause:
The bidder agrees to expend at least \$_____ of the Contract in the event the contract is awarded to such bidder for minority/women's business enterprises. For purposes of this pledge, the term "minority/women's business enterprise" means a bona fide business established as a sole proprietorship, partnership or corporation owned, operated and controlled by one or more minority persons or women who have at least fifty-one percent (51%) ownership. "Minority" includes African Americans, Asian/Pacific Islanders, Hispanic/Latino Americans and Native American Indians. The minority or woman must have operational and managerial control, interest in capital, and earnings commensurate with the percentage of ownership. Minority/women's business enterprises may be employed as construction contractors, subcontractors, vendors or suppliers.
(Ord.185-2011. Passed 10-31-11.)

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

5. Chapter 105.12 – Local Bidder Preference.

a. The Board of Control, in determining the lowest and best bidder in the award of contracts to which this section is applicable, is authorized to award contracts to local bidders as hereinafter defined, whose bid is not more than five percent (5%) higher, subject to a maximum amount of twenty thousand dollars (\$20,000.00), than the lowest dollar bid submitted by non-local bidders. The Board of Control's decision in making such an award shall be final.

b. For purposes of this section, "local bidder" means an individual or business entity which at the time of the award of the contract has a headquarters, division, sales office, sales outlet, manufacturing facility, or similar significant business-related location in Stark County, Ohio.

c. All contract specifications and/or bid documents that are distributed by Canton for the purpose of soliciting bids for goods and/or services shall contain the following notice:

Prospective bidders will take notice that the City of Canton, in determining the lowest and best bidder in the award of this contract, may award a local bidder preference to any qualified bidder pursuant to Section 105.12 of the Codified Ordinances of the City of Canton. The determination of whether a bidder qualifies for the local preference shall be made by Board of Control. The Board's decision shall be final. A copy of Section 105.12 is attached.

d. This section shall be applicable to all contracts for equipment, goods, machinery, materials, supplies, vehicles and/or services, which are purchased, leased and/or constructed at a cost in excess of twenty thousand dollars (\$20,000.00) and which require bidding pursuant to Ohio R.C. 735.05 through 735.09 and Ohio R.C. 737.03.

(Ord. 95-2014. Passed 5-5-14.)

6. Chapter 105.15 – City Income Tax

a. No person, partnership, corporation or unincorporated association may be awarded a contract with the City under Sections 105.09 or 105.10, unless the bidder is paid in full or is current and not otherwise delinquent in the payment of City income taxes, including any obligation to pay taxes withheld from employees under Section 182.05 and any payment on net profits under Section 182.06.

b. Falsification of any information related to or any post-contractual violation of the requirement to pay City income taxes set forth in subsection (a) shall constitute cause for the rescission of the balance of the contract at the City's discretion.

c. No partnership, corporation or unincorporated association which has as one of its partners, shareholders or owners a person who is a twenty percent (20%) or

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

greater equity owner in such partnership, corporation or unincorporated association and who is delinquent in the payment of City income taxes as set forth in subsection (a), may be awarded a contract with the City under Sections 105.09 or 105.10.

- d. A person who is a twenty percent (20%) or greater equity owner in any partnership, corporation or unincorporated association which is delinquent in the payment of City income taxes as set forth in subsection (a) may not be awarded a contract with the City under Sections 105.09 or 105.10.
- e. A contract awarded under Sections 105.09 or 105.10 for a public improvement project, services other than personal or professional services, and personal or professional services shall not be binding or valid unless such contract contains the following provisions:

Said _____ hereby further agrees to withhold all City income taxes due or payable under Chapter 182 of the Codified Ordinances for wages, salaries, fees and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income taxes due for services performed under this contract. Furthermore, any person, firm or agency that has a contract or agreement with the City shall be subject to City income tax whether a resident or nonresident in the City, and whether the work being done is in the City or out of the City. In addition to the tax withheld for employees, the net profits on the contract shall be subject to City income tax.

(Ord. 238-2015. Passed 11-30-15.)

7. Chapter 182.30 – Contract Provisions

- a. No contract on behalf of the City under Sections 105.09 or 105.10 of the Codified Ordinances of Canton for a public improvement project, services other than personal or professional services, and personal or professional services shall be binding or valid unless such contract contains the following provisions:

Said _____ hereby further agrees to withhold all City income taxes due or payable under Chapter 182 of the Codified Ordinances for wages, salaries, fees and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income taxes due for services performed under this contract. Furthermore, any person, firm or agency that has a contract or agreement with the City shall be subject to City income tax whether a resident or nonresident in the City, and whether the work being done is in the City or out of the City. In addition to the tax withheld for employees, the net profits on the contract shall be subject to City income tax.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

- b. By entering into contract with the City of Canton _____ agrees with the City regarding the manner of withholding of City income taxes as provided in Section 718.011(F) of the Ohio Revised Code.
 - i. Municipal income tax withholding provisions of Sections 718.011(B)(1) and 718.011(D) ORC shall not apply to qualifying wages paid to employees for work done or services performed or rendered inside the City or on City property.
 - ii. _____ agrees to withhold income tax for the City from employees' qualifying wages earned inside the City or on City property, beginning with the first day of work done or services performed or rendered inside the City.

(Ord. 238-2015. Passed 11-30-15.)

8. Chapter 507.03 – Equal Employment Opportunity Clause.

- b. During the performance of this contract, the contractor agrees as follows:
 - 1. The contractor shall not discriminate against any employee or applicant for employment because of race, age, handicap, religion, color, sex, national origin, sexual orientation or gender identity. The contractor shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to race, religion, color, sex, national origin, military status, sexual orientation or gender identity. As used herein, the word "treated" shall mean and include without limitation the following: recruited, whether by advertising or other means; compensation, whether in the form of rates or pay or other forms of compensation; selected for training, including apprenticeship; promoted; demoted; upgraded; downgraded; transferred; laid off; and terminated. The contractor agrees to and shall post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting officers setting forth the provisions of this nondiscrimination clause.
 - 2. The contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, age, handicap, religion, color, sex, national origin, military status, sexual orientation or gender identity.

(Ord. 153-2012. Passed 9-24-12.)

- 3. The contractor shall send to each labor union or representative of workers, with which he has a collective bargaining agreement or other contract or understanding, a notice advising the labor union or workers' representative of the contractor's commitments under the equal opportunity clause of the City; and he shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 4. The contractor shall submit in writing to the City his affirmative action plan, and each subcontractor and supplier of equipment or supplies shall submit to the general contractor his affirmative action plan. The

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

responsibility for securing these affirmative action plans falls upon the general contractor and shall be on file at the office of the general contractor. The contractor shall furnish all information and reports required by the City or its representative pursuant to this chapter, and shall permit access to his books, records, and accounts by the contracting agency and by the Executive Secretary for purposes of investigation to ascertain compliance with the program.

5. The contractor shall take such action with respect to any subcontractor as the City may direct as a means of enforcing the provisions of this equal opportunity clause, including penalties and sanctions for noncompliance; provided, however, that in the event the contractor becomes involved in or is threatened with litigation as the result of such direction by the City, the City will enter into such litigation as is necessary to protect the interests of the City and to effectuate the City's equal opportunity program and, in the case of contracts receiving Federal assistance, the contractor or the City may request the United States to enter into such litigation to protect the interests of the United States.
6. The contractor shall file and shall cause his subcontractors, if any, to file compliance reports with the City in the form and to the extent prescribed by the City or its representative. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs and statistics of the contractor and his subcontractors.
7. The contractor shall include the provisions of this equal employment opportunity clause in every subcontract or purchase order, so that such provisions will be binding upon each subcontractor or vendor.
8. Refusal by the contractor or subcontractor to comply with any portion of this program as herein stated and described will subject the offending party to any or all of the following penalties:
 - A. Withholding of all future payments under the involved public contract to the contractor in violation, until it is determined that the contractor or subcontractor is in compliance with the provisions of this contract.
 - B. Refusal of all future bids for any public contract with the City or any of its departments or divisions, until such time as the contractor or subcontractor demonstrates that he has established and shall carry out the policies of the program as herein outlined.
 - C. Cancellation of the public contract and declaration of forfeiture of the performance bond.
 - D. In cases in which there is substantial or material violation or the threat of substantial or material violation of the compliance procedure or as may be provided by contract, appropriate proceedings may be brought to enforce these provisions, including the enjoining within applicable laws of contractors, subcontractors or other organizations, individuals or groups who prevent, directly or indirectly, or seek to prevent, directly or indirectly, compliance with the policy as herein outlined.

(Ord. 179-74. Passed 6-17-74.)

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Section V: Construction Claims Management Policy

The City of Canton recognizes the need to contend with claims experienced by contractors that are not addressed by the contract. This policy is to act as a directive to provide stability and expertise in the management of claims and to ensure they are investigated, evaluated, and resolved in a timely and professional manner.

This policy attempts to resolve disputes in a fair and cost effective manner. The documentation resulting from this procedure will provide information needed to make a reasonable and unbiased decision. The City recognizes that costs can be kept to a minimum when the resolution is found at the departmental level.

Prior to entering into the formal claims management process, both the Prime Contractor and City's Project Manager agree to attempt to resolve any disputes in a good faith effort in accordance with the contract.

Please be advised that all disputes or claims must be presented by the Prime Contractor. Disputes or claims submitted by a sub-contractor or supplier against the City or the Prime Contractor shall not be accepted.

- **DEFINITION OF KEY TERMS**

City Department Head is defined as the City Engineer, Water Department Superintendent, Reclamation Facility Superintendent, Building Maintenance Superintendent, and Collection Systems Superintendent.

City Project Manager is defined as a representative from City Engineering Department, the City Water Department, City Sewer and Sanitation Department, Collection Systems, Building Maintenance or a party who has a contract with the City of Canton for construction engineering services for this particular project.

Claims are defined as disputes that are not settled in Steps One or Step Two of this process.

Contract Documents is defined by those documents listed in the Document Order of Precedence.

Disputes are defined as and include disagreements, matters in question, and differences of opinion that may result in a request for additional money and/or time.

Prime Contractor is defined as the contractor who has a contract directly with the City of Canton for this particular project.

- **PROCESS**

The Prime Contractor must follow this policy to be eligible for any compensation (time or monetary) for any and all claims not covered by the Change Order Policy. All steps in the policy must be completed prior to proceeding to the next step. The Prime Contractor shall immediately

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

provide oral notification to the City Project Manager upon discovering a circumstance that may result in a dispute. The Prime Contractor shall continue all work, including that work that is the subject of the dispute or claim. The City will continue to pay for work being performed.

- **STEP ONE CITY PROJECT MANAGER**

Within two (2) business days of providing oral notification to the City Project Manager, the Contractor must provide a written notice to the same of any circumstance that may result in a dispute. The City Project Manager will confirm, in writing, receipt of the written notice. The City Project Manager will negotiate in an effort to reach a resolution according to the Contract Documents. The City Project Manager shall issue a written decision within fourteen (14) business days of the Step One meeting. If the dispute is not resolved, the Prime Contractor must either abandon or escalate the dispute to Step Two.

- **STEP TWO CITY DEPARTMENT HEAD**

Within seven (7) business days of receipt of the Step One decision, the Prime Contractor must submit a written request for a Step Two meeting to the City Department Head. The City Department Head will acknowledge the request, in writing, and assign the dispute a dispute number. Within fourteen (14) business days of the receipt of the City Department Head's written acknowledgment, the Prime Contractor shall submit dispute documentation as follows:

1. The Prime Contractor shall submit three (3) complete copies of the documentation of the dispute to the City Department Head.
2. The dispute documentation shall be identified on a cover page by the project name, the parties involved in the dispute and the dispute number.
3. All documentation must be original documents that details the required information for each item of additional compensation and/or time extension requested.
4. A narrative of the disputed work or project circumstance at issue. This section must include the dates of the disputed work and the date of the written notice as required in Step One.
5. References to the applicable provisions of the plans, specifications, proposal, or other contract documents. Copies of the cited provisions shall be included.
6. The dollar amount of additional compensation and length of time extension being requested, supported by documentation that serve as the basis for said amounts of compensation or time.
7. A detailed schedule analysis must be included for any dispute concerning additional time, actual or constructive acceleration, or delay damages. Failure to submit the required schedule analysis will result in denial of that portion of the Prime Contractor's request.
8. Copies of all relevant correspondence and other pertinent documents.

The City Department Head shall review the dispute documentation and make a written recommendation within fourteen (14) business days of receipt of the dispute documentation. If the Prime Contractor accepts, in writing, the City Department Head's recommendation, the dispute will cease and/or be processed as a Change Order. If the Prime Contractor does not accept the City Department Head's recommendation, in writing, the City Department Head will

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

set a time for a Step Two meeting within fourteen (14) business days of receipt of the Prime Contractor's written response. The Step Two meeting shall be attended by the Prime Contractor and City Project Manager. Each party will have reasonable time to explain their positions regarding the dispute. Within ten (10) business days of the Step Two meeting, the City Department Head will issue a written determination of the dispute to the Prime Contractor and the City Project Manager. If the Prime Contractor accepts the City Department Head's determination, in writing, the dispute will cease and/or be processed as a Change Order. If the Prime Contractor does not accept the City Department Head's determination, the Prime Contractor may escalate to Step Three.

• **STEP THREE DIRECTOR OF PUBLIC SERVICE CLAIMS COMMITTEE**

Within fourteen (14) business days of receipt of the City Department Head's written determination, the Prime Contractor shall submit a *Notice of Intent to File a Claim* and four (4) copies of its claim documentation to the Director of Public Service by certified U.S. mail. This notice shall state the Prime Contractor's request for a Step Three Hearing on the claim. Within ten (10) calendar days of receipt of the *Notice of Intent to File a Claim*, the Director of Public Service shall submit the *Notice of Intent to File a Claim* and one (1) complete copy of the Prime Contractor's claim documentation to the City Department Head and City Project Manager. Within thirty (30) calendar days of the receipt of the *Notice of Intent to File a Claim* by the City Department Head and City Project Manager, the City Department Head and City Project Manager shall submit four (4) copies of its documentation to the Director of Public Service and one (1) copy to the Prime Contractor. After receiving the both the Prime Contractor and City Department Head and/or City Project Manager's documentation, the Director of Public Service shall set a hearing date not more than sixty (60) days from the date of receipt of said documentation. At any time between the receipt of either party's documentation and the hearing date, the Director of Public Service may request additional information. If the party fails to provide the requested information, the Director of Public Service may render his/her decision without it. The hearing date may be rescheduled one (1) time to allow time for additional review of submitted information.

The hearing will be conducted by the Director of Public Service Claims Committee. The Committee shall consist of, at the minimum, the Director of Public Service, a representative of the Canton Law Department, and a representative of the Canton Purchasing Department. The Director of Public Service may add members as he/she sees fit.

Upon completion of the hearing, the Committee will take both sides of the claim into consideration. Within thirty (30) calendar days of the Step Three hearing, the Director of Public Service will send a written decision to all parties. Within (14) calendar days, the Prime Contractor must either accept or reject the decision in writing. Step Three is the final step of the Claims Policy.

Hearing Procedure

The Prime Contractor and City Department Head and/or City Project Manager will each be allowed adequate time to present their respective positions. Each party's position will be

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

presented by someone who is thoroughly knowledgeable about the claim. Each party will be allowed to have others assist in the presentation. Each party will also be allowed one (1) rebuttal period limited to the scope of the other party's presentation. The Committee may ask questions at any time during the presentation.

The parties shall behave in a professional manner. The parties shall refrain from interrupting and/or interfering with the other party's presentation. The Director of Public Service reserves the right to maintain order in the hearing. If a party continues to interrupt and/or interfere with the other party's presentation, after one warning, that party may: be removed from the hearing or forfeit their rebuttal time.

In the event that both parties do not behave in a professional manner, the Director of Public Service may choose to hear each party's presentation in caucus.

Claim Documentation

When submitting the claim documentation, the Prime Contractor must certify the claim in writing. Such certification shall attest to the following:

1. The claim is made in good faith.
2. To the best of the Prime Contractor's knowledge, all data offered to support the claim is accurate and complete.
3. The claim amount accurately reflects the Contractor's actual incurred costs and additional time impacts.

This claim certification shall also be notarized pursuant to the laws of the State of Ohio. The following is an example of the correct form for a claim certification:

(Prime Contractor) certifies that this claim is made in good faith, that all supporting data is accurate and complete to the best of the (Prime Contractor's) knowledge and belief, and that the claim amount accurately reflects the contract amendment for which (Prime Contractor) believes the City of Canton is liable.

By: _____

Date of Execution: _____

At a minimum, the Prime Contractor's Claim Documentation shall include:

1. A narrative of the disputed work or project circumstance at issue with sufficient description and information to enable understanding by a third party who has no knowledge of the dispute or familiarity with the project. This section must include the dates of the disputed work and the date of the written notice as required in Step One. This section must also list the steps the parties have taken to resolve this claim.
2. References to the applicable provisions of the plans, specifications, proposal, or other contract documents. Copies of the cited provisions shall be included.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

3. The dollar amount of additional compensation and length of time extension being requested, supported by documentation that serve as the basis for said amounts of compensation or time.
4. A detailed schedule analysis must be included for any dispute concerning additional time, actual or constructive acceleration, or delay damages. Failure to submit the required schedule analysis will result in denial of that portion of the Prime Contractor's request.
5. Copies of all relevant correspondence and other pertinent documents

At a minimum, the City Department Head and/or City Project Manager's Claim Documentation shall include:

1. A narrative of the disputed work or project circumstance at issue with sufficient description and information to enable understanding by a third party who has no knowledge of the dispute or familiarity with the project. This section must also list the steps the parties have taken to resolve this claim.
2. References to the applicable provisions of the plans, specifications, proposal, or other contract documents. Copies of the cited provisions shall be included.
3. Response to each argument set forth by the Prime Contractor.
4. Any counter-claims, accompanied by supporting documentation they wish to assert.
5. Copies of all relevant correspondence and other pertinent documents.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Section VI: Bid Forms and Instructions

Failure to submit Bid Forms 1 through 9 with the bid may cause the bid to be deemed non-responsive, and therefore it may not be considered.

Bid Forms 10 through 14 will be required of the successful bidder but may be submitted after the awarding of the contract.

*****The City of Canton does encourage bidders to submit all bid forms with their bids*****

BID FORM 1 – MINORITY BUSINESS ENTERPRISE UTILIZATION COMMITMENT

The City of Canton is committed to economic inclusion of certified minority and women's business enterprises (MBEs/WBEs). This form is for the bidder to identify the dollar amount he is willing and/or able to expend if the contract is awarded to his company for minority and/or women's business enterprises.

BID FORM 2 – BIDDER AND CONTRACTOR EMPLOYMENT PRACTICES REPORT

This form is designed to provide an evaluation of the bidder's policies and practices relating to the extension of equal employment opportunity to all persons without regard to race, religion, color, sex or national origin. The successful bidder will be required to complete and submit the Bidder and Contractor Employment Practices Report. Additionally, the successful bidder will be required to submit an "affirmative action plan" and/or "EEO policy." If the successful bidder does not have a formal EEO policy, he/she will be required to complete and submit the provided EEO policy statement.

BID FORM 3 – AUTHORITY OF SIGNATORY

The authority of the bid signatory must be established. Bid Form 3 provides the means by which the bidder can identify the type of business organization it is (corporation, partnership, etc.) and provides instructions as to how signature authority is commonly established.

BID FORM 4 – BID GUARANTY

Each proposal shall be accompanied by a bid guaranty which shall consist of one of the following:

1. Ohio Statutory Bid Guaranty and Contract Bond, substantially in the form prescribed by ORC 153.571. The 153.571 statutory bond form requires that the penal amount be an amount not less than the bid price. It is a bid error to write in an amount equal to ten percent (10%) of the amount bid.
2. A certified check or cashier's check in an amount not less than ten percent (10%) of the total amount bid for all items upon which the proposal is made. A bid guaranty check shall be made payable to the owner without condition. A

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

contractor using a bid check will be required to furnish a performance bond in the amount of one hundred percent (100%) of the total bid within ten (10) days of notice of the award.

Bidders using the Ohio Statutory Bid Guaranty and Contract Bond Form can leave the penal amount blank, if such is acceptable to the bidder and the surety. The statutory bond form, per ORC 153.571, is read as having a penal amount equal to the price bid, if no amount is written.

In the case where a bidder to whom a contract award is made fails to execute and secure a contract within ten (10) days after the issuance of the notice of award in writing, the award may be vacated and the bid guarantee, in an amount not to exceed ten percent (10%) of the amount bid, forfeited.

The Bid Bond must be provided by an approved surety company authorized to transact business in the State of Ohio and with a local agent. Agents of bonding companies which write the Bid Bond for this contract shall be licensed to conduct business in the State of Ohio and have a local (Ohio) agent. Each bid shall contain the power of attorney, bearing the seal of the company and evidencing such agent's authority to execute the documents furnished. Identification of the local agent is to accompany each Bond.

The surety used for the bid bond shall be listed in the current edition of the U.S. Treasury Circular 570 and the Penal Sums shall be within the maximum specified for such company in said Circular 570.

BID FORM 5 – BIDDER INFORMATION

The bidder shall submit the required information on the included form and shall supplement the information there given as may be required by the City after the receipt of bids. Low bidders may be interviewed by the City and shall furnish such information as the City may deem necessary to consider prior to making an award.

BID FORM 6 – PROJECT REFERENCES

Each bidder shall provide references as set forth on Bid Form 6.

BID FORM 7 – NON-COLLUSION AFFIDAVIT

Each bidder is required to submit with the bid an affidavit stating that neither he nor his agents, nor any other party for him, has paid or agreed to pay, directly or indirectly, any person, firm or corporation any money or valuable consideration for assistance in procuring or attempting to procure the contract herein referred to, and further agreeing that no such money or reward will be hereafter paid. This affidavit must be on the form provided in this document.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

BID FORM 8 – QUESTIONNAIRE IN DETERMINING LOWEST AND BEST BID

This form identifies a series of factors to be considered by the Board of Control in determining whether a bid is not only the lowest bid, but also the best bid.

BID FORM 9 – INSURANCE AFFIDAVIT AND REQUIREMENTS

The successful bidder will be required to submit the required insurance as outlined in Bid Form 9.

All bidders would be well advised to consult their insurance agent as soon as possible so that all questions and concerns can be given due consideration.

BID FORM 10 – AFFIDAVIT FOR FOREIGN CORPORATIONS

A successful bidder who is a foreign corporation, (a corporation not chartered in the State of Ohio), will be required to submit an affidavit duly executed by the authorized bid signatory stating in said affidavit that said foreign corporation has, in accordance with the provisions of the laws of the State of Ohio, obtained a certificate authorizing it to do business in the State of Ohio.

BID FORM 11 – LISTING OF SUBCONTRACTORS

The successful bidder shall provide the name, type of work to be performed and value of each subcontract. Note that subcontractors are distinguishable from suppliers.

BID FORM 12 – PERSONAL PROPERTY TAX CERTIFICATION (ORC 5719.042)

This form and/or certification must be retyped on the bidder's letterhead and notarized utilizing either paragraph (A) or (B) as it applies to the successful bidder's company.

BID FORM 13 – CERTIFICATION – AUDITOR OF THE STATE OF OHIO

This form is to be completed in which to certify that the bidder does not have outstanding unresolved finding for recovery issued by the Auditor of the State of Ohio.

BID FORM 14 – ARTICLES OF INCORPORATION

The successful bidder will be required to submit a copy of the company's articles of incorporation.

BID FORM 15 – W-9 TAX FORM

Please attach your company's current W-9.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 1: Minority and Women’s Business Enterprises

A. Overview

The City of Canton is committed to economic inclusion of certified minority and women’s business enterprises (MBEs/WBEs). For the purposes of this form, the term "minority/women's business enterprise" means a bona fide business established as a sole proprietorship, partnership or corporation owned, operated and controlled by one or more minority persons or women who have at least fifty-one percent (51%) ownership. "Minority" includes African Americans, Asian/Pacific Islanders, Hispanic/Latino Americans and Native American Indians. The minority or woman must have operational and managerial control, interest in capital, and earnings commensurate with the percentage of ownership. Minority/women's business enterprises may be employed as construction contractors, subcontractors, vendors or suppliers.

B. MBE/WBE Certification

Is your company or business a certified MBE or WBE in the City of Canton, any other governmental entity, and/or National Minority Supplier Development Council?

_____ Yes _____ No

If yes, please list the entities where you have received certification below:

If you are interested in becoming a certified MBE or WBE with the City of Canton, please visit the Compliance Department’s website for an application and instructions.

<http://cantonohio.gov/compliance/?pg=116>

C. MBE/WBE Utilization in the Subcontracting of Work and Purchase of Supplies

It is the goal of the City of Canton that at least ten percent (10%) of the total of all contracts be expended for minority/women’s business enterprises.

If awarded the bid, will you be utilizing subcontractors or purchasing supplies for use under the contract?

_____ Yes _____ No

If yes, please complete the remaining questions and provide the information requested in this section.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

1. The Bidder must indicate the minority business enterprises it intends to utilize in this document as follows: (Please attach additional sheets if necessary.) For a current list of City of Canton Certified Businesses please contact the City of Canton Compliance Department at 330-438-4302.

	Name of Business	Business Address	Nature of Participation	Dollar Amount	MBE/WBE and Certifying Body
Business 1					
Business 2					
Business 3					
Business 4					
Business 5					

2. The bidder agrees to expend at least \$ _____ or _____ % of the Contract in the event the contract is awarded to such bidder for minority/women's business enterprises.
3. The Bidder agrees to furnish implementation reports to indicate the minority business enterprises which it has or intends to utilize. A copy of the implementation report is included at the end of this bid form. These reports will be due at 50% completion of the project and 100% completion of the project. These reports should be forwarded to the following address.

City of Canton Purchasing Department
218 Cleveland Ave., SW, 4th floor
Canton, OH 44702

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

4. If the ten percent (10%) minority business utilization cannot be met, a waiver can be granted by the Board of Control upon recommendation of the Director of Public Service and/or Safety. To justify a waiver, it must be shown that due diligence has been made to comply, and it must be demonstrated that sufficient, relevant, qualified minority business enterprises (which can perform subcontracts or furnish supplies) are unavailable in the market area of the project, or unable to perform the work, in order to meet the ten percent (10%) minority business enterprise goal. In order to request a waiver, the attached waiver request should be filled out and returned with your bid.

D. Signature

The undersigned hereby certifies that he or she has read the terms of the commitment and is authorized to bind the Bidder to the commitment herein set forth.

Name/Title of Authorized Officer

Signature of Authorized Officer

Date

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

**City of Canton - Office of Compliance
Subcontractor and Supplier Implementation Report**

Please submit a form for each MBE/WBE subcontractor and/or supplier utilized. Please note that this form is due at 50% completion of the project and at 100% completion of the project.

Bidder/Contractor Name:	
Subcontractor/Supplier Name:	
Project Name:	

If no MBE/WBE subcontractors or suppliers have been used at this time, please write NA above for the subcontractor/supplier, sign, and return the form.

Subcontractor/Supplier is a: MBE WBE

Please list all entities where this certification has been received:

Part 1: SPEC ITEM #s	Part 2: TYPE OF WORK OR SUPPLIES/MATERIALS	Part 3: TOTAL SUBCONTRACT AMOUNT IN DOLLARS
		\$

***Please provide a signed affidavit from all MBE/WBE subcontractors and/or suppliers utilized to document the information supplied above.**

The undersigned contractor certifies that the information contained within this report is true and accurate to the best of its knowledge at the time of submission.

Authorized Contractor Representative & Title:			
Signature:		DATE:	

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

**City of Canton - Office of Compliance
MBE/WBE Utilization Waiver Request**

Bidder/Contractor Name:	
Project Name:	

Note: To justify a waiver of the City’s MBE/WBE goals, it must be shown that due diligence has been made to comply, and it must be demonstrated that sufficient, relevant, qualified minority business enterprises (which can perform subcontracts or furnish supplies) are unavailable in the market area of the project, or unable to perform the work, in order to meet the ten percent (10%) minority business enterprise goal. Please use the spaces below to document the efforts that were made to meet the City of Canton’s MBE/WBE goals. Please attach additional sheets if necessary.

Contacted Contractor	Proposed Work/Supplies	Reason for Unavailability	Date of Contact	Date Response Received
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

Authorized Contractor Representative & Title:			
Signature:		DATE:	

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 2: Bidder and Contractor Employment Practices Report

**Bidder and Contractor Employment Practices Report
City of Canton Office of Compliance**

I. INSTRUCTIONS

- A. This form is designed to provide an evaluation of your policies and practices as they relate to the extension of equal employment opportunity to all persons regardless to race, religion, color, sex, age, national origin, disability, sexual orientation, or sexual identity.
- B. City of Canton Codified Ordinance 507 and rules and regulations pursuant thereto provide for a contract compliance inspection of personnel policies and practices related to any contract with the City including contracts for work, labor, services, supplies, equipment, materials, leases, concession agreements, and permits.
- C. Completion of this Contractor and Bidder Employment Practices Report is one of the steps which demonstrate compliance with the City's Equal Employment Opportunity Program. Responsibility for demonstrating compliance with the Program by the vendor and its subcontractors rests with the vendor or subcontractor. Such demonstration is a prerequisite for continued eligibility for the award City contracts.

II. VENDOR OR BIDDER INFORMATION

1. Reporting Status A. Prime Contractor B. Prime Subcontractor C. Supplier D. Other (Specify)
2. Name, Address and Telephone Number of Bidder Covered by This Report
3. Name, Address and Telephone Number of Principal Official or Manager of Bidder
4. Name, Address and Telephone Number of Principal Office of Bidder

Evaluation (Office Use Only)

- Compliant
- Non-Compliant
- Follow up needed _____

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

III. POLICIES AND PRACTICES

The bidder and/or Contractor will indicate his/her willingness or unwillingness to comply with the requirements of the Equal Employment Opportunity Program of the City of Canton by circling the applicable letter associated with each item below. The letters are interpreted as follows:

A – Current Practice **B** – Company will immediately adopt this policy **C** – Company is unwilling or is unable to adopt policy.

Circle One	Items	State Reason if (C) is checked
A B C	1. The company will adopt a policy of non-discrimination on the basis of race, religion, color, sex, age, national origin, disability, sexual orientation, or sexual identity, with regard to recruitment, hiring, training, upgrading, promotion and discipline of employees or applicants for employment. This policy will be communicated in writing to all employees, subcontractors, recruitment sources and all relevant labor organizations and unions.	
A B C	2. The Company will develop procedures which will assure that this policy is understood and carried out by managerial, administrative, supervisory personnel.	
A B C	3. The company will use recruitment sources such as employment agencies, unions, and schools which have a policy of referring applicants on a non-discriminatory basis.	
A B C	4. The company will participate in training programs for the benefit of employees or prospective employees, according to the intent of City Codified Ordinance 507.	
A B C	5. Company recruiters will seek a broad recruitment base in order that a representative cross-section of applications might be obtained, and will refrain from a hiring policy which limits job applicants to persons recommended by company personnel.	
A B C	6. Company will take steps to integrate any position, departments, or plant locations which have no minority persons, or are almost completely staffed with one particular ethnic or racial group.	
A B C	7. The Company will review its qualifications for each job to determine whether such standards eliminate unemployed persons who could, if hired, perform the duties of the job adequately. The following qualifications should be reviewed: Education, Experience, Tests, and Criminal Records.	
A B C	8. Residence in a particular geographical area will not be a qualifying or disqualifying criterion for employment with the Company.	
A B C	9. The Company will provide that all bargaining agreements with employee organizations, including labor unions, have non-discrimination clauses requiring equal employment opportunity.	

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

IV. EMPLOYMENT DATA

Please note that this data may be obtained by visual survey or post-employment records. Neither visual surveys nor post-employment records are prohibited by any Federal, State or local law. All specified data is required to be filled in. Please provide truthful and accurate information. If information provided is found to be false, bidder/contractor will be subject to the loss of future awards.

MALE:

FEMALE:

Categories	Overall Total	Total Male	Total Female	African American	Asian American	Native American	Hispanic	African American	Asian American	Native American	Hispanic
Officials, Managers and Supervisors											
Professionals											
Technicians											
Part-Time Seasonal											
Office & Clerical											
Craftsman (skilled)											
Operatives (semi-skilled)											
Laborers (un-skilled)											
Service Workers											
Total:											

REMARKS: Please explain any identification data appearing on the last report which differs from that given above. This includes major changes in employment, changes in composition of reporting units, and other pertinent information. Use a separate sheet if additional space is required.

V. ADDITIONAL INFORMATION (Optional)

Describe any other actions taken which show that all employees are recruited, hired trained, and promoted without regard to their race, religion, color, sex, age, national origin, disability, sexual orientation, or sexual identity. Use a separate sheet if additional space is required.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

VI. POLICY STATEMENT

The City of Canton, Ohio in conformance with local, state, and federal regulations, requires each vendor, contractor, and material suppliers working on City projects or awarded City contracts be signatures of the following statements:

- 1) It is the policy of _____ that equal employment opportunities be afforded to all qualified persons without regard to race, religion, color, sex, age, national origin, disability, sexual orientation, or sexual identity.
- 2) In support of this document _____ will not discriminate against any employee or applicant because of race, religion, color, sex, age, national origin, disability, sexual orientation, or sexual identity.
- 3) _____ will take affirmative action to ensure that applicants for employment and current employees are treated fairly without regard to race, religion, color, sex, age, national origin, disability, sexual orientation, or sexual identity. Such action will include but not be limited to recruitment, advertising, or solicitation for employment, hiring, placement, upgrading, transfer or demotion, selection for training including apprenticeship rates of pay or other forms of compensation, layoffs or termination.
- 4) _____ will make every effort to comply with minority utilization goals as follows: (9%) nine percent minorities in your workforce on the job, (6.9%) six point nine percent female utilization on this job, and (10%) ten percent of contract amount expended with minority business enterprises, women-owned business enterprises or a combination of both.
- 5) _____ shall require each sub-contractor hired for this project to adhere to this statement.

VII. SIGNATURE

The undersigned certifies that he/she is legally authorized by the vendor/bidder to affirm all information and statements included in this employment practices report. That he/she has read all of the foregoing statements, representations, and affirmations and that they are true and correct to the best of his/her knowledge and belief. The undersigned, understands that if any of the statements and representations are made knowing them to be false or there is a failure to implement any of the stated intentions or objectives, set forth herein, without prior notice to the Office of Compliance, the bidder/contractor could be subject to the loss of current and future awards.

Firm or Corporation Name

Signature

Title

Date of Signing

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 4: Bid Guaranty

If a Bid Bond is supplied, the Ohio Statutory Bid Guaranty and Contract Bond, as set forth in ORC 153.571 is to be used.

*****Please include your bid bond or bid check at the front of your submitted bid packet*****

PERFORMANCE BOND AFFIDAVIT

Unless Bidder submits, with its bid, a Bid and Contract Bond per ORC. 153.571, Canton may request that the Bidder obtain, from its insurance representative, a performance bond affidavit that contains the representations noted below. The affidavit shall be made on the insurance agency's letterhead, reference this project by name and state at least the following:

- (1) The representative certifies that, should the contract be awarded to the contractor on whose behalf the certificate is being provided, the performance bond specified will be provided.
- (2) The name and A.M. Best Company ratings of companies which are expected to provide the required performance bond.

THE PERFORMANCE BOND AFFIDAVIT SHALL BE NOTARIZED

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 5: Bidder Information

Bidder Information Page 1 of 3

1. The Bidder shall provide the following information as part of its bid.

a. Name of Bidder _____

b. Business Address _____

_____ City _____ State _____ Zip

c. Business Telephone Number (____) _____

d. Person, address, email and telephone to whom official notices are to be sent

e. Person, address, email and telephone for further information regarding this proposal

f. State(s) of incorporation (w/dates of incorporation)

g. Principal place of business _____

h. Federal I.D. Number # _____

i. Amount of Certified Check, Cashier's Check, Bid Bond \$ _____

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bidder Information Page 2 of 3

2. Form of Business Organization.

____ Corporation

____ Partnership

____ Other

3. The bidder shall provide the names and addresses of all persons interested as principals (officers, partners, and associates) in this proposal. Write first name in full, and give titles for offices.

<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

All of the above, including the signatory to this bid, are citizens of the United States, except the following. (Provide names and addresses of those not a citizen of the United States.)

<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

4. Name and address of other person, firms or companies interested in this contract.

<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

5. Local Bidder Preference Information: Does your company have a headquarters, division, sales office, sales outlet, manufacturing facility, or similar significant business-related location in Stark County, Ohio? If yes, please provide the name and address of the location below.

<hr/>
<hr/>
<hr/>
<hr/>

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bidder Information Page 3 of 3

The undersigned certifies that the bidder has the facilities, ability and financial resources available for the fulfillment of the contract if such be awarded to said bidder.

Upon request, the bidder will be expected to amplify the foregoing statements as necessary to satisfy the OWNER concerning his ability to successfully perform the work in a satisfactory manner.

Signed this _____ day of _____, 20_____

Contractor

By _____

(Signature of individual, partner or officer signing the proposal.)

Sworn to and subscribed before me this _____ day of
_____, 20 _____.

Notary Public in and for

_____ County,

My Commission Expires:

_____, 20 _____.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 6: Project References

Each bidder should provide a list of comparable projects performed over the last three (3) years (maximum of 10) indicating the following:

- Owner (with name, address and telephone number of Owner's project manager).
- General description of work, and size and type of project. Also indicate whether participation was as a prime or subcontractor. If the bidder's participation on the project was as a subcontractor, identify prime contractor with information requested above for the OWNER.

All previous work for the OWNER over the last five (5) years should be identified.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 7: Page 2

statements contained in said proposal or bid are true; that such bidder has not, directly or indirectly submitted this bid, or the contents thereof, or divulged information or data relative thereto any association or to any member or agent thereof; and further says that all the statements made by him in said proposal or bid are true.

Affiant

Sworn to and subscribed before me this _____ day of
_____, 20 ____.

Notary Public in and for

_____ County,

My Commission Expires:

_____, 20 ____.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

**Bid Form 8: Factors to Be Used When Determining Lowest and Best Bid,
Page 1**

NOTICE

All bidders shall hereby take notice of the factors to be considered by the Board of Control in determining whether a bid is not only the lowest bid, but the best bid. Said factors are contained in Canton Ordinance 86/2009, Chapter 105.01.

QUESTIONNAIRE

When completing Bid Form #8, please submit your answers, separately, on your company letterhead and attach to Bid Form #8.

In accordance with Canton Ordinance 86/2009, Chapter 105.01, Section (c), each bidder must complete the following questionnaire. This questionnaire is to be completed in a truthful and responsible manner by the bidder. The City reserves the right to consider the bidder in default for any false or misleading information supplied per this questionnaire. If the bid is made by a corporation, then this questionnaire is to be completed by its properly authorized agent.

1. Please describe the work, supplies and materials covered by the bidder's bid.
2. Please state the identification of all work to be subcontracted. **All subcontractors are also subject to the approval of the Board of Control based on the criteria contained in this section.**
3. Please provide the descriptions of the bidder's experience with projects of comparative size, complexity and cost within recent years, demonstrating the bidder's ability and capacity to perform a substantial portion of the project with its own forces.
4. Please provide documentation from previous, similar projects regarding timeliness of performance, quality of work, extension requests, fines and penalties imposed and payments thereof, liens filed, explanations of the same.
5. Please state the number of years the bidder has been actively engaged as a contractor in the construction industry.
6. Please provide your recent experience record in the construction industry, including the original contract price for each construction job undertaken by the bidder, the amount of any change orders or cost overruns on each job, the reasons for the change orders or cost overruns, and the bidder's record for complying with and meeting completion deadlines on construction projects.
7. Please identify any project(s) within the previous five years that the bidder was determined by a public entity not to be a responsible bidder, the reasons given by the public entity, together with an explanation thereof.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 8: Page 2

8. Please identify your financial responsibility to assure that the bidder processes adequate resources and availability of credit, the means and ability to procure insurance and acceptable performance bonds required for the project and whether any claims have been made against performance bonds secured by the bidder on other construction projects.
9. Please describe any suspension or revocations of any professional license of any director, officer, owner, or managerial employees of the bidder, to the extent that any work to be performed is within the field of such licensed professional.
10. Please describe any and all OSHA violations within the previous three years, as well as all notices of OSHA citations filed against the bidder in the same three year period, together with an explanation of remediation or other steps taken regarding such violations and notices of violation.
11. Please describe any and all violations within the previous five years pertaining to unlawful intimidation or discrimination against any employee by reason race, creed, color, disability, gender or national origin and/or violations of an employee's civil or labor rights or equal employment opportunities.
12. Please describe any litigation (including copies of pleadings) in which the bidder has been named as a defendant or third party defendant in an action involving a claim for personal injury or wrongful death arising from performance of work related to any project in which it has been engaged within the previous five years.
13. Please describe any allegations of violations of the prevailing wage law and any other state or federal labor law, including, but not limited to, child labor violations, failure to pay wages, or unemployment insurance tax delinquencies or unfair practices within the past five years.
14. Please describe any violations of the worker compensation law.
15. Please describe any criminal convictions or criminal indictments, involving the bidder, its officers, directors, owners, and/or managers within the past five years.
16. Please describe any violation within the past five years or pending charges concerning federal, state, or municipal environmental and/or health laws, codes, rules and/or regulations.
17. Please provide documentation that the bidder provides health insurance and pension benefits to its employees.
18. Please state the experience and the continuity of the bidder's work force.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 8: Page 3

19. Please submit the identity of the bidder's permanent work force that will be employed on the public contract, to include the number of employees (or contract labor) to be assigned to the contract, their city and state of residence, and their job descriptions or trade specialties.
20. Please provide the identity of any temporary work force that will be employed on the public contract, to include the number of employees (or contract labor) to be assigned to the contract, their city and state of residence, and their job descriptions or trade specialties.
21. Please state whether the bidder's work force is drawn mainly from local employees as defined below. The number of local employees, and their job descriptions or trade specialties that the bidder will employ on the public contract.
Local Employee Definition
 - A. A person residing within the City of Canton or Stark County,
 - B. A person working for a contractor or from a pool of labor located within the City of Canton or Stark County; or
 - C. Due to the specialty nature of the employment to be performed, where a suitable person meeting either subsection A or B hereof is not available, a person residing or working within a location as close to Canton as is available. A "suitable person" means a person who is qualified to perform the work or trainable within a reasonable period of time.
22. If the bidder claims that non-local employees (or non-local contract labor) are to be assigned to the public contract instead of local employees, please state in detail the reasons therefore.
23. If the bidder claims that local employees are not intended to be used by the bidder on the public contract because they are not available, qualified or trainable within a reasonable period of time, please state in detail the reasons therefore.
24. State whether the bidder participates in a bona fide apprenticeship program that is approved by the Ohio State Apprenticeship Council and the United States Department of Labor.
25. State whether the bidder has adopted and implemented a comprehensive drug and alcohol testing program for its employees.
26. State whether the bidder's employees are OSHA-10 and/or OSHA-30 certified.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 9: Insurance Affidavit and Requirements

Insurance Requirements

- A. The following standard indemnity agreement and minimum insurance requirements are incorporated in the Specifications for all work performed by the Contractor for the City of Canton, Ohio and its affiliated and associated organizations or subsidiaries hereinafter referred to as Owner.
- I. The Contractor agrees to indemnify and save the Owner harmless from and against any and all costs, loss and expense, liability damages, or claims for damages, including cost for defending any action, on account of any injury to persons (including death) or damage to or destruction of property of the Owner, arising or resulting from the work provided for or performed, or from any act, omission, or negligence of the Contractor, Subcontractor and his or their agents or employees. The foregoing provisions shall in no way be deemed released, waived or modified in any respect by reason of any insurance or surety provided by the Contractor.
- II. The Contractor shall maintain insurance of the kinds and in amounts specified in the attached schedule and furnish the Director of Public Service with Certificates of Insurance as evidence thereof in the prescribed form. If any work provided for or to be performed under any Specifications is sublet (as otherwise permitted by the terms of such Specifications), the Contractor shall require the sub-contractors to maintain and furnish him with satisfactory evidence of Workmen's Compensation, Employers' Liability and such other forms and amounts of insurance which Contractor deems reasonably adequate.
- III. In accordance with Item II, the Contractor shall maintain the following insurance:
1. Worker's Compensation and Employer's Liability Insurance affording,
(a) Protection under the Workmen's Compensation Law in the State of Ohio.
(b) Employer's Liability protection subject to a minimum limit of \$100,000.00.
2. Commercial General Liability Insurance in amounts not less than:
- | | |
|--|----------------|
| General Aggregate Limit | \$2,000,000.00 |
| Products - Completed Operations
Aggregate Limit | \$2,000,000.00 |
| Personal and Advertising Injury
Limit | \$1,000,000.00 |
| Each Occurrence Limit | \$1,000,000.00 |
| Fire Damage Limit | \$100,000.00 |
| Medical Expense Limit | \$5,000.00 |

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

This insurance shall:

- a. include coverage for the liability assumed by Contractor under Item I (Indemnity);
- b. not to be subject to any of the special property damage liability exclusions commonly referred to as the XCU exclusions pertaining to blasting or explosion, collapse or structural damage and underground property;
- c. not be subject to any exclusion of property used by the insured or property in the care, custody or control of the insured or property as to which the insured for any purpose is exercising physical control unless the required Builders Risk or Installation Floater coverage is indicated on the required Certificate of Insurance (Item III.4);
- d. and the Certificates of Insurance furnished by the Contractor shall show by specific reference that each of the foregoing items have been provided for.
- e. Include the City of Canton, Ohio and its agents, as an additionally named insured for purposes of coverage under the subject policy.

3. Comprehensive Automobile Liability Insurance in the following minimum amounts:

Bodily Injury and Property Damage	
any one accident or loss:	\$1,000,000.00

4. The contractor will provide and maintain Installation/Builders Risk Insurance to protect the interests of both the contractor and the owner for materials transported to the job, stored or installed on the premises, or stored at any temporary location off premises. Such insurance shall be written on an "All Risk" form to include the perils of Fire, Extended Coverage, Vandalism, Malicious Mischief, Theft, Collapse and Water Damage. The amount of Insurance shall be 100% of the insurable value of the work to be performed including all items of labor and materials incorporated therein, materials in storage on or off the job site to be used in completing the work, and such other supplies and equipment incidental to the work as are not owned or rented by the contractor, the cost of which is included in the direct cost of the work. This Insurance shall not cover any tools, derricks, machinery, tar buckets, ladders, engines, workmen's quarters, boilers, pumps, wagons, scaffolds, forms, compressors, shanties or other items owned or rented by the Contractor, the cost of which is not included in the direct cost of the work.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

- B. The Certificates of Insurance furnished by the Contractor as evidence of the Insurance maintained by him shall include a clause obligating the Insurer to give the City of Canton thirty (30) days prior written notice for cancellation or any material change in the insurance.

Insurance Affidavit

Each bidder should obtain from its insurance representative and include in the bid submittal an insurance affidavit that contains the representations noted below. Make the affidavit on the insurance agency's letterhead, reference this project by name, and state at least the following:

1. The representative has reviewed and understands the insurance requirements (including the cancellation/non-renewal provisions) set forth in Bid Form 9.
2. The representative certifies that the company will provide the specified insurance should the contract be awarded to the contractor on whose behalf the certificate is being provided.
3. The names and A.M. Best Company ratings of companies required to provide the required insurance.

You must have the insurance affidavit notarized.

The successful bidder will be required to provide evidence of the required insurance as outlined in this bid form.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 10: Bidder's Affidavit: Foreign Corporation

***Any corporation that is not incorporated in the State of Ohio is a foreign corporation.**

The undersigned certifies that _____ is a foreign corporation incorporated in the State of _____, whose principal place of business is _____ and is required to obtain authorization to transact business in the State of Ohio.

The undersigned bidder further certifies that said authorization has been obtained and is in effect and the bidder has a designated statutory agent upon whom process against bidder corporation may be served within the State of Ohio. The designated

statutory agent is _____
(name and address)

Process served upon the designated statutory agent named above shall be effective service, unless the Owner has been informed, by certified mail or its equivalent (return receipt), of a change in the agent upon whom process can be served.

Date

Signed

Title

Note: This statement is to be reproduced on the bidder's letterhead, signed by the authorized bid signatory, notarized and submitted with the bid.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 11: Listing of Subcontractors

The bidder shall set forth the name, location of principal place of business, proposed amount of subcontract, and type of work to be performed of each subcontractor who will perform work or labor or render service, as listed, to the bidder in or about the construction of the work or improvement to be performed under the contract for which the attached bid is submitted, and where the portion of the work which will be performed by each subcontractor will be. Note that subcontractors are distinguishable from suppliers.

Subcontractor – An individual or entity having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the work at the site.

Supplier – A manufacturer, fabricator, supplier, distributor, material man, or vendor having a direct contract with CONTRACTOR or with any Subcontractor to furnish materials or equipment to be incorporated in the work by the CONTRACTOR or any Subcontractor.

The Bidder understands that if he fails to specify a subcontractor for any portion of the work to be performed under the Contract, he shall be deemed to have agreed to perform such portion himself.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 12: Personal Property Tax Certification (ORC 5719.042)

NOTE: The below form and/or certification must be retyped on the bidder's letterhead and notarized utilizing either paragraph (A) or (B), and paragraph (C) as it applies to your company.

Office of the Auditor
City of Canton
218 Cleveland Avenue S.W., 2nd floor
Canton, OH 44702

To Whom It May Concern:

(A) The undersigned hereby certifies that the party for whom the contract award is being considered was not charged with any delinquent personal property tax at the time of the bid opening for the project nor is said party currently charged with such a delinquency on the general tax list of personal property for Stark County, Ohio.

Or

(B) The undersigned hereby certifies that the party for whom the contract award is being considered has been charged with a delinquency regarding personal property tax on the general tax list of personal property for Stark County, Ohio, either currently, or at the time of bid opening for the project. The amount of the due and unpaid delinquent taxes, including any due and unpaid penalties and interest thereon is _____.

and

(C) It is understood that, under Ohio law, this statement is to be signed by the party whose bid has been tentatively accepted, and must be affirmed under oath. The law also requires that his statement is to be submitted to the City Auditor and this statement must be incorporated into the pending contract before any payment can be made under the subject contract.

Name of Company

Signatory

Secretary

Sworn to and subscribed in my presence this _____ day of _____, 20 _____

(Notary Public)

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 13: Certification: Auditor of the State of Ohio

I, _____
(Name of person signing affidavit) (Title)

do hereby certify that _____ does not have an
(Company or Individual Name)

outstanding unresolved finding for recovery issued by the Auditor of the
State of Ohio as defined by Ohio Revised Code (ORC) Section 9.24 as of

(Current date)

Signature of Officer or Agent

Name (Print)

Sworn to and subscribed in my presence this _____ day of
_____, 20 _____

(Notary Public)

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 14: Articles of Incorporation

Please provide a copy of the bidding company's articles of incorporation. The City of Canton may request this information if it is not provided.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Bid Form 15: W-9 Tax Form

Please attach your company's current W-9 Tax Form.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Section VII: Ohio Public Works Commission Requirements

All bidders shall take notice that this project will be funded in part with Ohio Public Works Commission (OPWC) funds and City Capital Funds. Thus, all bidders will be required to comply with all OPWC requirements including those outlined below. In the event that there is a discrepancy between these and any other requirements in this Invitation to Bid, the most stringent requirement shall apply.

Bidders are required to acknowledge these requirements by returning a copy of them, with a completed Section 9 (State of Ohio Equal Employment Opportunity Requirements), with their sealed bid. Failure to do so may result in a disqualification of your bid.

1. STEEL PRODUCTS MADE IN THE UNITED STATES

Domestic steel use requirements as specified in Ohio Revised Code §153.011 apply to this project. Copies of §153.011 can be obtained from any of the offices of the department of administrative services or through <http://codes.ohio.gov/orc/153.011>.

2. PREVAILING WAGES ON STATE PROJECTS WITH NO FEDERAL-AID

(Required by Appendix B)

(Should this project contain Federal-aid funds then Federal Prevailing Wages must be paid. Contact the appropriate Federal funding agency for language.)

This contract is subject to Ohio Prevailing Wage Laws, Chapter 4115 of the Ohio Revised Code and the Contractor and all subcontractors shall comply with all provisions contained therein or as otherwise provided by this note. The Contractor guarantees that the prevailing wage scale to be paid to all laborers and mechanics employed on this contract shall be in accordance with the schedule of the prevailing hourly wage and fringe benefits as determined by the Ohio Department of Commerce for the county in which the work is being performed. The failure to pay prevailing wages to all laborers and mechanics employed on this project shall be considered a breach of contract. Such a failure may result in the revocation of the contractor's and/or subcontractor's certificate of qualification and debarment. A schedule of the most current prevailing wage rates may be accessed by logging in/registering with the Ohio Department of Commerce, Labor and Worker Safety Division, Wage and Hour Bureau at the following web address:

<http://198.234.41.198/w3/webwh.nsf/wrlogin/?openform>

The Contractor and all subcontractors shall compensate the employees on this contract at a pay rate not less than the hourly wage and fringe rate listed on the website noted above, for the applicable job classification or as may be modified by the Ohio Department of Commerce, Division of Labor and Worker Safety Wage and Hour Bureau, when new prevailing rates are established.

Overtime shall be paid at one and one-half times the basic hourly rate for any hours worked beyond forty hours during a pay week. The Contractor and all subcontractors shall pay all compensation by company check to the worker and fringe benefit program.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

The wage and fringe rates determined for this project or as may be later modified, shall be posted by the Contractor in a prominent and accessible place on the project, field office, or equipment yard where they can be easily read by the workers or otherwise made available to the workers. On the first pay date of contract work the Contractor and all subcontractors shall furnish each employee covered by prevailing wage a completed form (WHPW-1512) in accordance with section 4115.05 of the Ohio Revised Code, showing the classification, hourly pay rate, and fringes, and identifying the public authority's Prevailing Wage Coordinator, if such employees are not covered by a collective bargaining agreement or understanding between employers and bona fide organizations of labor. These forms shall be signed by the Contractor or subcontractor and the employee and kept in the Contractor's or subcontractor's payroll files.

The Contractor and all subcontractors shall submit to the Prevailing Wage Coordinator, certified payrolls on form WHPW-1512 or equivalent, in accordance with sections 4115.07 and 4115.071 (C) of the Ohio Revised Code, three weeks after the start of work and every subsequent week until the completion of the contract. Additionally, a copy of the "Apprentice Certification" obtained from the Ohio State Apprenticeship Council, must accompany all certified payrolls submitted, for all apprentices working on this project. Upon completion of the contract and before the final payment, the Contractor shall submit to the Prevailing Wage Coordinator a final wage affidavit in accordance with section 4115.07 of the Ohio Revised Code stating that wages have been paid in conformance with the minimum rates set forth in the contract. Please be aware that it is ultimately the responsibility of the Contractor to ensure that all laws relating to prevailing wages in Chapter 4115 of the Ohio Revised Code are strictly adhered to by all subcontractors.

The Contractor and all subcontractors shall make all of its payroll records available for inspection, copying or transcription by any authorized representative of the contracting agency. Additionally, the Contractor and all subcontractors shall permit such representatives to interview any employees during working hours while the employee is on the job.

3. UNRESOLVED FINDING FOR RECOVERY *(Required by Bid Form 13)*

The Contractor affirmatively represents to the local contracting authority that it is not subject to a finding for recovery under Ohio Revised Code §9.24, or that it has taken the appropriate remedial steps required under §9.24 or otherwise qualifies under that section. The Contractor agrees that if this representation is deemed to be false, the contract shall be void ab initio as between the parties to this contract, and any funds paid by the state hereunder shall be immediately repaid to the local contracting authority, or an action for recovery may be immediately commenced by the local government and/or for recovery of said funds.

4. OHIO WORKERS' COMPENSATION COVERAGE *(Required by Bid Form 9)*

The Contractor must secure and maintain valid Ohio workers' compensation coverage until the project has been finally accepted by the local contracting authority. A certificate of coverage evidencing valid workers' compensation coverage must be submitted to the local contracting authority before the contract is executed.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

The Contractor must immediately notify the local contracting authority, in writing, if it or any subcontractor fails or refuses to renew their workers' compensation coverage. Furthermore, the Contractor must notify the local contracting authority, in writing, if its or any of its subcontractor's workers' compensation policies are canceled, terminated or lapse.

The failure to maintain valid workers' compensation coverage shall be considered a breach of contract which may result in the Contractor or subcontractor being removed from the project, withholding of pay estimates and/or termination of the contract.

5. DRUG-FREE WORKPLACE PROGRAM

In accordance with Ohio Revised Code §153.03 and during the life of this project, the Contractor and all its Subcontractors that provide labor on the Project site must be enrolled in and remain in good standing in the Ohio Bureau of Worker's Compensation ("OBWC") Drug-Free Workplace Program ("DFWP") or a comparable program approved by the OBWC.

6. OHIO PREFERENCE

In accordance with Ohio Revised Code §164.05 (A)(6), to the extent practicable, the Contractor and subcontractor shall use Ohio products, materials, services and labor in connection with this project.

7. BID GUARANTY (*Required by Bid Form 4*)

In accordance with Ohio Revised Code §153.54, the contractor shall file with the bid a bid guaranty in the form of either: 1) a bond for the full amount of the bid, or 2) a certified check, cashier's check, or letter of credit equal to 10% of the bid.

8. OHIO ETHICS LAW

Contractor agrees that it is currently in compliance and will continue to adhere to the requirements of Ohio Ethics law as provided by Section 102.03 and 102.04 of the Ohio Revised Code.

9. STATE OF OHIO EQUAL EMPLOYMENT OPPORTUNITY REQUIREMENTS

(Required in addition to Bid Forms 1 and 2)

NOTICE TO CONTRACTORS:

The provisions of the Ohio Administrative Code (OAC) 123:2-3-02 through 124:2-9 regarding Equal Employment Opportunity on State Construction Contracts and State-assisted Construction Contracts, and OAC 123:2-3-02 through 123:2-9 regarding Equal Employment Opportunity and Female Utilization Goals are applicable to this project, and each contractor will be required to comply in all aspects of these provisions.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

CERTIFICATE OF COMPLIANCE FOR EEO PURPOSES:

All prime contractors must secure a valid Certificate of Compliance from the Department of Administrative Services, Equal Opportunity Division, prior to execution of a construction contract.

Please utilize the following link for instructions for electronic filing.

<http://www.das.ohio.gov/Divisions/EqualOpportunity/CertificateofCompliance/tabid/129/Default.aspx>

>>> Does this bidder have a valid Certificate of Compliance? ___Yes ___No

>>> If "No" to the above, will this bidder be able to obtain a valid Certificate of Compliance prior to the execution of a contract? ___Yes ___No

Bidder must provide a "Yes" answer to one or the other of the above questions.

BIDDER'S AFFIRMATIVE ACTION REQUIREMENTS:

Each prime contract bidder must submit an Affirmative Action Program regarding equal employment opportunity to and receive approval from the State Equal Employment Opportunity Coordinator prior to the bid opening, **OR** the prime contract bidder must evidence within its bid the adoption of the Minority Manpower Utilization Goals and Timetables set forth in "Appendix A" and the Specific Affirmative Action Steps set forth in "Appendix B" of the State Equal Employment Opportunity Bid Conditions.

>>> Has the prime contract bidder prepared and submitted an Affirmative Action Program to the State Equal Employment Opportunity Coordinator and that program has been approved by the State Equal Employment Opportunity Coordinator prior to the bid opening? ___Yes ___No

OR

>>> If "No", with this bid response, the prime contract bidder hereby adopts the Minority Manpower Utilization Goals and Timetables set forth in Appendix "A" and the Specific Affirmative Action Steps set forth in Appendix "B" of the State Equal Employment Opportunity Bid Conditions. ___Yes ___No

Bidder must provide a "Yes" answer to one or the other of the above affirmative action alternatives.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

BIDDER'S EEO COVENANTS:

Throughout its performance of any contract awarded to it on this State-assisted project, the prime contract bidder agrees to the following covenants:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry or sex. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, national origin, ancestry or sex. Such action shall include, but is not limited to, the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will in all solicitations or advertisements for employees placed by or on behalf of the prime contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry or sex.

(3) The contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the State Administering Agency advising the said labor union or workers' representatives of the contractor's commitments under this covenant and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The contractor will comply with all provisions of the Ohio Department of Administrative Services, Equal Opportunity Division and with the implementing rules, regulations and applicable orders of the State Equal Employment Opportunity Coordinator.

(5) The contractor agrees to fully cooperate with the State Administering Agency, the State Equal Employment Opportunity Coordinator and with any other official or agency, or the State or Federal government which seeks to eliminate unlawful employment discrimination, and with all other State and Federal efforts to assure equal employment practices under its contract and the contractor shall comply promptly with all requests and directions from the State Administering Agency, the State Equal Employment Opportunity Coordinator and any of the State of Ohio officials and agencies in this regard, both before and during construction.

(6) Full cooperation as expressed in clause (5), above, shall include, but not be limited to, being a witness and permitting employees to be witnesses and complainants in any proceeding involving questions of unlawful employment practices, furnishing all information and monthly utilization work hour reports required by the OAC 123: 2-9-01 and by the rules, regulations and orders of the State Equal Employment Opportunity Coordinator pursuant thereto, and permitting access to its books, records, and accounts by the State Administering Agency and the State Equal Employment Opportunity Coordinator for purposes of investigation to ascertain compliance with

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

such rules, regulations and orders. Specifically, contractors will submit workforce utilization reports to the State Equal Opportunity Coordinator by the 10th of each month. The monthly reports must be electronically submitted through the following website:

<http://das.ohio.gov/EOD/CCInputForm29.htm>

(7) In the event of the contractor's noncompliance with the nondiscrimination clauses of its contract or with any of the said rules, regulations, or orders, its contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further State Contracts or State-assisted Construction Contracts in accordance with procedures authorized in OAC 123:2-3 through 2-9 and such other sanctions may be instituted and remedies invoked, as provided in OAC 123:2-3 through 2-9 or by regulation, or order of the State Equal Employment Opportunity Coordinator, or as otherwise provided by law.

In the event that its contract is terminated for a material breach of OAC 123:2-3 through 2-9 the contractor shall become liable for any and all damages which shall accrue to the State Administering Agency and Applicant and the State of Ohio as a result of said breach.

(8) The contractor will require the inclusion of language reflecting these same eight covenants within every subcontract or purchase order it executes in the performance of its contract unless exempted by rules, regulations or orders of the State Equal Employment Opportunity Coordinator issued pursuant to O.A.C. 123:2-3-02 so that these provisions will be binding upon each subcontractor or vendor. The contractor will take such actions as the Administering Agency may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in any litigation with a subcontractor, vendor or other party as a result of such direction by the State Administering Agency, the contractor may be requested to protect the interests of the State.

>>> The prime contract bidder hereby adopts the foregoing covenants? ___Yes ___No

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

BIDDER'S CERTIFICATION:

The undersigned, being a duly authorized officer of the prime contract bidder, does hereby certify to and agree with the foregoing statements and covenants regarding its subscription to the State's Equal Employment Opportunity Requirements for State-assisted Construction Contracts.

_____/_____/_____
Signature of Authorized Officer Date

Title

>>> PLEASE NOTE: Only a bidder possessing a valid certificate will be awarded a contract pursuant to Chapter 153 of the Revised Code by an owner referred to in section 153.01 of the Revised Code. Application shall be made at least ten working days prior to the date that the bidder expects to receive the certificate. The bidder's failure to elect one of the two Bidder's Affirmative Action Requirements, adopt the Bidder's EEO Covenants, and complete the foregoing certification may cause the bidder's proposal to be rejected as being non-responsive to the State's Equal Employment Opportunity Requirements and in non-compliance with the State Equal Employment Opportunity Bid Conditions. In addition, the bidder must, prior to the execution of a contract, submit to the local subdivision a valid Certificate of Compliance for Equal Employment Opportunity purposes.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

"APPENDIX A" OF THE STATE EEO BID CONDITIONS

MINORITY MANPOWER UTILIZATION GOALS AND TIMETABLES

The following minority goals listed are expressed in terms of percentages of work hours for each trade to be used by the contractor in a designated area. Designated areas are defined as Ohio's Standard Metropolitan Statistical Areas (SMSA). They are: Akron, Cincinnati, Cleveland, Columbus, Dayton, Toledo and Youngstown-Warren. In cases where the project is not located in a designated area, the contractor may adopt minority utilization goals of the near/nearest designated area.

AKRON		CINCINNATI	CLEVELAND
All Trades	10%	<u>Trade</u>	<u>Trade</u>
		Asbestos Workers	Asbestos Workers 17%
		Boilermakers	Boilermakers 10%
COLUMBUS		Carpenters	Carpenters 16%
All Trades	10%	Elevator Constructors	Electricians 20%
		Floor Layers	Elevator Constructors 20%
		Glaziers	Floor Layers 11%
DAYTON		Lathers	Glaziers 17%
All Trades	11%	Marble, Tile, Terrazzo	Ironworkers 13%
		Millwright	Operating Engineers 17%
		Operating Engineers	Painters 17%
TOLEDO		Painters	Pipefitters 17%
All Trades	9%	Pipefitters	Plasterers 20%
		Plasterers	Plumbers 17%
		Plumbers	Roofers 17%
YOUNGSTOWN		Sheet Metal Workers	Other Trades 17%
All Trades	9%	Other Trades	

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

"APPENDIX B" OF THE STATE EEO BID CONDITIONS

SPECIFIC AFFIRMATIVE ACTION STEPS

The following Affirmative Action steps are directed at increasing minority utilization:

(1) The contractor should maintain a file of the names and addresses of each minority and female referred to it by any individual or organization and what action was taken with respect to each such referred individual, and if the individual was not employed by the contractor, and the reasons therefore. If such individual was sent to the union hiring hall for referral and not referred back by the union or if referred back by the union or if referred, not employed by the contractor, the file should document this and the reason therefore.

To Demonstrate Compliance: Maintain a file of the names, addresses, telephone numbers, and craft of each minority and female applicant showing (a) the date of contact and whether the person was hired; if not, the reason, (b) if the person was sent to a union for referral, and the results (c) follow-up contacts when the contractor was hiring.

(2) The contractor should promptly notify the State Contracting Agency when the Union or Unions with which the contractor has collective bargaining agreements does not refer to the contractor a minority or female worker referred (to the union) by the contractor, or when the contractor has information that the union referral process has impeded efforts to meet its goals.

To Demonstrate Compliance: Have a copy of letters sent, or do not claim the union is impeding the contractors' efforts to comply.

(3) The contractor should disseminate its Equal Employment Opportunity policy within its organization by including it in any company newsletters and annual reports; by advertising at reasonable intervals in union publications; by posting of the policy; by specific review of the policy with minority and female employees; and by conducting staff meetings to explain and discuss the policy.

To Demonstrate Compliance: Have a written EEO policy which includes the name and how to contact the contractor's EEO Officer and (a) include the policy in any company policy manuals, (b) post a copy of the Policy on all company bulletin boards (in the office and on all job sites), (c) records, such as reports or diaries, etc., that each minority and female employee is aware of the Policy and that it has been discussed with them, (d) that the policy has been discussed regularly at staff meetings and (3) copies of newsletters and annual reports which include the Policy.

(4) The contractor should continually monitor all personnel activities to ensure that its EEO policy is being carried out, including the evaluation of minority and female employees for promotional opportunities on a quarterly basis and the encouragement of such employees to seek those opportunities.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

To Demonstrate Compliance: Have records that the company EEO Officer reviews all: (a) monthly workforce reports, (b) hiring and terminations, (c) training provided on-the-job, (d) minority and female employees quarterly for promotion and encourages them to prepare for and seek promotion. The records should be the EEO Officer's job description, reports, memos, personnel files, etc., documenting the activities for possible discriminatory patterns.

(5) The contractor should disseminate its EEO policy externally by informing and discussing it with all recruiting sources; by advertising it in news media, specifically including minority and female news media; and by notifying and discussing it with all subcontractors.

To Demonstrate Compliance: Have copies of (a) letters sent, at least six months or at the start of each new major contract, to all recruiting sources (including labor unions) requiring compliance with the Policy, (b) advertising, which has the EEO "tagline" on the bottom, and (c) purchase order and subcontract agreement forms will include or make reference to the State EEO Covenant, Appendix A or B of the Ohio Administrative Code 123:2-3-02.

(6) The contractor should make specific and reasonably recurrent oral and written recruitment efforts directed at minority and women's organizations, and training organizations with the contractor's recruitment area.

To Demonstrate Compliance: Have a record either in a follow-up file for each organization or on the reverse of the notification letter sent under Item 1, above, of the dates, individuals contacted and the results of the contract from telephone calls or personal meetings with the individuals or groups notified under Item 1.

(7) The contractor, where reasonable, should develop on-the-job training opportunities and participate and assist in all Department of Labor funded and/or approved training programs (including Apprenticeship) Programs relevant to the contractor's employee needs consistent with its obligations in the Bid Conditions.

To Demonstrate Compliance: Have records of contributions in cash, equipment supplied and/or contractor personnel provided as instructors for Bureau of Apprenticeship and Training approved or Department of Labor funded training programs and records of the hiring and training of minorities and females referred to Company by such programs.

(8) The contractor should solicit bids for subcontracts (and joint ventures) from available minority and female subcontractors engaged in the trades covered by the Bid Conditions, including circulation of minority and female contractors associations.

To Demonstrate Compliance: Have copies of letters or other direct solicitation of bids for subcontracts/joint ventures from minority/female contractors with a record of the specific response and any follow-up the contractor has done to obtain a price quotation or to assist a minority/female contractor in preparing or reducing a price quotation; have a list of all minority/female subcontracts awarded or joint ventures participated in with dollar amounts, etc.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

EXPLANATION OF AN ACCEPTABLE AFFIRMATIVE ACTION PROGRAM:

An Affirmative Action Program is a set of specific and result-oriented procedures to which a Contractor shall apply every good faith effort. The objective of those procedures and efforts is to assure equal employment opportunity. An acceptable Affirmative Action Program will include an analysis of all trades employed by the Contractor within the last year with an explanation of whether Minorities are currently being under-utilized in any one or more trades. A necessary prerequisite to the development of a satisfactory Affirmative Action Program is the identification and analysis of problem areas inherent in Minority employment and an evaluation of opportunities for utilization of Minority group personnel.

Part I - Basic Contents of an Affirmative Action Program:

1. Development or reaffirmation of the contractor's EEO policy in all personnel actions.
2. Formal internal and external dissemination of contractor's EEO policy.
3. Establishment of responsibilities for implementation of the contractor's affirmative action program.
4. Identification of problem areas (deficiencies) by organizational units and job classification.
5. Establishment of goals and objectives by organizational units and job classification, including timetables for completion.
6. Development and execution of action oriented programs designed to eliminate problems and further designed to attain established goals and objectives.
7. Design and implementation of internal audit and reporting systems to measure effectiveness of the total programs.
8. Compliance of personnel policies and practices with Federal sex discrimination guidelines (41 CFR Part 60-20).
9. Active support of local and national community action programs and community service programs, designed to improve the employment opportunities of minorities.
10. Consideration of ethnic minorities and women not currently in the work force having requisite skills who can be recruited through affirmative action measures.
11. Summary data on applicant flow, hires, terminations and promotions, and training for the last twelve months or the last one hundred applicants, hires, etc., whichever is less.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

Part II - Analysis of Individual Trades

1. The minority population of the labor area surrounding (contractor's) projects.
2. The size of the minority unemployment force in the labor area surrounding (the contractor's) projects.
3. The percentage of minority work force as compared with the total work force in the immediate labor area.
4. The general availability of minorities having requisite skills in the immediate labor area.
5. The availability of minorities having requisite skills in the area in which the contractor can reasonably recruit.
6. The availability of promotable minority employees within the contractor's organization.
7. The anticipated expansion, contraction, and turnover of an in the work force.
8. The existence of training institutions capable of training minorities in the requisite skills.
9. The degree of training which the contractor is reasonably able to undertake as a means of making all job classes available to minorities.

Goals, timetables and affirmative action commitments must be designed to correct any identifiable deficiencies. Where deficiencies exist and where numbers or percentages are relevant in developing corrective action, the contractor shall establish and set forth specific goals and timetables. Such goals and timetables, with supporting data and the analysis thereof shall be a part of the contractor's written affirmative action program. Where the contractor has not established a goal, its written affirmative action program must specifically analyze each of the factors listed above, and must detail its reason for a lack of a goal. The goals and timetables should be attainable in terms of the contractor's analysis of its deficiencies and its entire action. Thus, in establishing its goals and timetables, the contractor should consider the results which could be reasonably expected from its good faith efforts to make its overall affirmative action program work. If the contractor does not meet its goals and timetables, the contractor's good faith efforts shall be judged as to whether the contractor is following its program and attempting to make the program work toward the attainment of its goals.

Support data for the above analysis and program shall be compiled and maintained as part of the contractor's affirmative action program. This data should include applicant flow data and applicant rejection ratios indicating minority status.

Compliance Status: No State Contractor's compliance status shall be judged alone by whether or not he reaches his goals and meets his timetables. Rather each Contractor's compliance posture shall be reviewed and determined by reviewing the contents of his program, the extent of his adherence to his program and his good faith efforts to make his program work toward the realization of the program's goals within the timetables set for completion.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

“APPENDIX C” OF THE STATE EEO BID CONDITIONS

FEMALE UTILIZATION GOALS

OAC 123:2-3-05 Required utilization analysis and goals

(A) Each state-involved contractor shall include in his/her affirmative action program the information and analysis required pursuant to part IV 401-C of appendix A of rule 123:2-1-01 of the Administrative Code, in addition to female utilization requirements pursuant to the governor’s “Executive Order 84-9” and this rule.

(B) As required by the governor’s “Executive Order 84-9”, the utilization of women shall be, at a minimum, that currently in use by the federal government as of February 15, 1984. This requirement stated at C.F.R. part 60-4 is 6.9 percent utilization of women. This requirement shall remain at 6.9 percent unless further amended by the governor in a subsequent order. This requirement shall be met by a determination of work hours utilized in the same manner as minority utilization hours are calculated

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

Section VIII: Specifications

1.01 TECHNICAL SPECIFICATIONS:

The Technical Specifications and Drawings are provided under separate cover at the Purchasing Department website at (<https://cantonohio.gov/purchasing/?pg=showbids>).

All item numbers referenced to in the drawings refer to the State of Ohio Department of Transportation Construction and Material Specifications, 2016 Edition. All equipment, material and workmanship shall be performed according to these specifications and any Ohio Department of Transportation Standard Construction Drawings (SCD) referenced on the plans.

1.02 SUPPLEMENTAL SPECIFICATIONS:

01-00 - Project Documentation and Submittal Requirements for All Public Work Projects and Subdivision Developments

1.03 ADDITIONAL SPECIFICATIONS:

Section 02567 – Manhole Sealing with a Protective Polymer Lining

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

Supplemental Specification 01-00

**PROJECT DOCUMENTATION AND SUBMITTAL REQUIREMENTS
FOR
ALL PUBLIC WORK PROJECTS AND SUBDIVISION DEVELOPMENTS**

September, 2000

* Revised August, 2009

Project Submittals: The following listed items are the full responsibility of the Contractor. These items become part of the administrative duties imposed upon this Contract. The Contractor shall be responsible for submitting all detail items prior to the contract Notice of Commencement, or as directed by the City's Project Manager. A typewritten letter shall accompany all items, on Company letterhead; clearly describe each item submitted. If Contractor elects to fax any documentation due to expediency, the Contractor will be responsible for submitting hard copy for project documentation. The City will reject any information not clearly legible. **Submit four copies of the project submittals.**

Contractor will clearly affix a label or stamp identifying the submittal and its status for project review. All actions other than "no exception taken" will require supporting notation or information for project review.

Allow at least 10 business days for City's review and execution. The City Project Manager shall assist the Contractor with any questions or clarification during this process to ensure timely response to the Contractor.

The City will not pay directly for the performance of the work listed. This work is a subsidiary obligation of the Contractor.

1. Shop Drawings
2. Preconstruction Video
3. Progress Schedule
4. Release Statement for Disposal of Excavated Material
5. Traffic Control Plan
6. Contractor and Subcontractor Emergency Contact List
7. Statements of Final Compliance

1. Shop Drawings

- a) Upon written request from the Engineer, the Contractor shall submit detailed drawings, acceptable catalog data, specification and material certifications for all materials and/or equipment specialized or required for the proper completion of the work.
- b) Contractor shall submit shop drawings in not less than four (4) copies to the Engineer.
- c) Contractor shall submit shop drawings in proper sequence of construction to cause no delay in the work. The Engineer will have ten (10) business days to review submittals. The Contractor's failure to transmit appropriate submittals to the Engineer sufficiently in advance of work shall not be grounds for time extension. No work shall be performed

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

- requiring shop drawings until same the Engineer has approved these shop drawings.
- d) Label each shop drawing with the following:
 - 1. Project Name
 - 2. Name of Contractor
 - 3. Name of Subcontractor (if applicable)
 - 4. Name and Address of Supplier and/or Manufacturer
 - 5. Log Reference Number
 - e) The Contractor is responsible for reviewing and approving all shop drawings prior to submittal. The Engineer's review does not make him responsible for the accuracy of said drawings.
2. **Preconstruction Video:** Prior to actual construction, the Contractor shall take video recording of the entire length and width of the work site.
- a) The Contractor shall notify the Engineering Department prior to scheduling the video recording of the site. A representative of the Engineering Department shall be present when the recording this video.
 - b) The video and audio recordings shall be on DVD or pre-approved alternative for replay. Contractor must submit alternative medium to the Engineer and approval received prior to scheduling.
 - c) The video portion shall have continuous time and date incorporated into it, locations and person(s) doing the work.
 - d) Audio comments during the recording must address each item in the field of view as it may pertain to the project construction. The recording technician will need to become familiar with the project plans to know what subject matter is pertinent. Further, contractor must incorporate a post recording review and audio comments into the recording.
 - e) Submitted copies of all recordings are the property of the Engineer. Contractor must submit the recording and be accepted in full by the Engineering Department prior to the start of construction.
3. **Progress Schedule:** The Contractor shall provide to the City, as mutually agreed upon at the Contract's Preconstruction meeting, a graphic progress schedule, which shall include the following:
- a) Progress schedule as a minimum to be prepared in **CRITICAL PATH METHOD FORMAT (CPM)**. The schedule shall be submitted, as a minimum, on 11" x 17" format for clarity and any necessary notations. Progress schedule shall include all work activities relative to the project, as further described in the Contract. Activities and rate of expected progress to secure completion as set forth in the Contract shall be shown on the schedule. Contractor to annotate any milestones that may be indicated in the Contract. Project completion date shall be clearly defined on the original schedule and all ensuing schedules provided.
 - b) Schedules shall be updated, as a minimum, every 30 days, or as agreed to by the City's Project Manager.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

4. **Release Statement for Disposal of Excavated Materials**
 - (a) The Contractor shall provide to the City a written consent statement from all property owners whose property is a landfill depository for all surplus or unsuitable excavated material from the project site.
 - (b) The Contractor shall follow ODOT 105.16 for specific guidelines and name the “City of Canton” in lieu of “the Department” on all forwarded documents. The City requires a contract or permit that contains the language stating that the City is not party to the contract or permit, the material is not the City’s, and that the contractor and the property owner will hold the City harmless from claims that may arise from this contract or permit.
 - (c) See attached sample copy for referencing purposes.

5. **Traffic Control Plan:** Contractor shall submit a graphical presentation or written document detailing the signage to be used and its location for maintenance of traffic. If traffic control will be performed in stages, submit a plan for each stage. Any proposed detours should be approved by the Engineer prior to plan submission.

6. **Contractor and Subcontractor Emergency Contact List:** Contractor shall submit to the Engineer, prior to commencing construction, a complete list of the Contractor’s personnel associated with the project. List should include name, title, and emergency contact phone numbers for each individual.

7. **Statements of Final Compliance:** The Contractor shall submit to the City the following documentation, in addition to the Project’s General Conditions. All submittals shall be completed and approved prior to the release of the final retainer.
 - a) Certificates of Substantial and Final Completion. Contractor shall submit in writing, the date on which work is substantially completed and upon Final Completion. Any deviation from the stated contract completion date to what is being submitted shall be explained further by the Contractor. The City, at their discretion, will further review this subject, as needed.
 - b) Final Waiver of Lien

Contractor shall furnish a written report indicating the resolution of any and all property damage claims filed with Contractor by any party during the contract period. The information shall include the name of claimant; date filed with Contractor; name of Insurance Company and/or Adjustor handling the claim; how the claim was resolved; if claim was not resolved for the full amount, a statement indicating the reason for such action. If there were no damage claims filed with the Contractor, then this shall be so stated in the report.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

(SAMPLE COPY)

Waste Disposal Agreement for Projects in the City of Canton

Items 1, 3 - 9 are optional and discretionary to the undersigned

THIS WASTE AGREEMENT, made this _____ day of _____ 20___, by and between _____ (called "Contractor"), and _____ of _____ (called "Land Owner"), concerning a certain construction contract between the Contractor and _____ in the City of Canton, OH for the _____ (project), as follows:

1. **MANNER OF WASTING:** Land Owner grants to Contractor the exclusive right to place dirt, earth, rock, topsoil, subsurface, unsuitable and/or other excess material (called "waste material") upon the area described in the following paragraph without requirement, limit, or restriction as to depth, amount, manner, or time.
2. **WASTE AREA:** The property upon which Contractor is permitted to place material is commonly known as _____ (address).
3. **TITLE TO WASTE AREA:** The Land Owner warrants that it has title to and the right to contract for placement of waste material in said area and agrees to defend and indemnify Contractor against any claim, suit, or damage arising out of such title or right to contract.
4. **ACCESS AND USE:** Land Owner hereby grants Contractor the right of ingress and egress to the waste area in locations to be selected by Contractor for all purposes necessary to the complete fulfillment of this agreement, and the right of quiet enjoyment in the intended use of such area.
5. **PAYMENT:** Contractor agrees to pay and Land Owner agrees to accept as full and final compensation for all rights granted and covenants contained herein and all claims of every nature the sum of _____ payable _____.
6. **BASIS OF MEASUREMENTS:** It is mutually agreed that measurement of the amount of materials wasted, where required, shall be made on the following basis: _____ and said measurement shall be binding upon the parties hereto for all purposes.
7. **DAMAGES:** Land Owner hereby waives any and all claims for damage to the waste area and to the area of ingress and egress except as specifically noted herein.
8. **RELEASE:** Upon receipt of final payment hereunder, and provided all terms of this agreement have been fulfilled, Land Owner hereby releases Contractor from further liability of any kind or nature hereunder.

WITNESSES:

CONTRACTOR:

Authorized Signature & Title

LANDOWNER:

Signature

9. **ENTIRE AGREEMENT:** It is agreed that the terms and conditions of this agreement are fully covered in the foregoing, and that any oral or written statements made by either party, or agents claiming to represent either party, not set forth herein, are not binding on the parties and are not considered as part of this Agreement.
10. **DISCLAIMER:** The City of Canton is not a party to the here above agreement. The Contractor and Landowner shall indemnify and save harmless the City of Canton from any claim that may arise from the here above agreement. The waste material is the property of the Contractor, not the City of Canton

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

SECTION 02567

MANHOLE SEALING WITH A PROTECTIVE POLYMER LINING

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. The work under this section includes furnishing all equipment, materials, and labor required to complete manhole and lift station wet well rehabilitation repair type as specified herein and shown on the Drawings. All manhole rehabilitation items shall be determined in the field by the Engineer. Items may be modified at the discretion of the Engineer.
- B. All manholes specified to receive manhole sealing shall be examined by the Contractor. Notify the Engineer in writing if surfaces are not acceptable. Contractor shall not begin liner application until unacceptable conditions have been corrected.
- C. The Contractor shall provide necessary sewer flow control for all manhole rehabilitation. Flow through type plugs installed in the manhole inlets and plumbed into the outlet allowing flow to pass through the structure without interference of bench and invert replacements are may be used by the Contractor. Flow through type plugs shall be removed by the Contractor at the end of each work day.
- D. Manhole rehabilitation shall consist of cleaning and preparing the surface for crack, void and leak repair, bench replacement, channel replacement, and manhole sealing with a polymer based liner material on the bench surfaces and on the walls from the bench to bottom of frame as specified herein.
- E. All work shall be in strict accordance with the Engineers specifications and recommendations including application of all products as required and in accordance with Manufacturer's directions.

1.2 QUALITY ASSURANCE

- A. The Contractor shall have suitable equipment for performing the manhole rehabilitation work and shall have demonstrated satisfactory performance in completing previous comparable work.
- B. The Contractor shall have a minimum of five (5) years experience applying and installing the products specified herein.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

- C. The Contractor must certify in writing from the Manufacturer that he is approved to install the Manufacturer's products specified herein.
- D. **Manufacturer Qualifications:** The Manufacturer of work of this section shall have five (5) years minimum proven experience in such work and shall have satisfactorily completed three (3) jobs of similar size and type within the last five (5) years.

1.3 RELATED WORK

1.4 REFERENCES

- A. ASTM D638 - Tensile Properties of Plastics.
- B. ASTM D790 - Flexural Properties of Unreinforced and Reinforced Plastics.
- C. ASTM D695 - Compressive Properties of Rigid Plastics.
- D. ASTM D4541 - Pull-off Strength of Coatings Using a Portable
- E. ASTM D7234 - Pull-off Adhesion Strength of Coatings on Concrete Using Portable Adhesion Testers.
- F. ASTM D2584 - Volatile Matter Content.
- G. ASTM D2240 - Durometer Hardness, Type D.
- H. ASTM D543 - Resistance of Plastics to Chemical Reagents.
- I. ASTM C109 - Compressive Strength Hydraulic Cement Mortars.
- J. ACI 506.2-77 - Specifications for Materials, Proportioning, and Application of Shotcrete.
- K. ASTM C579 - Compressive Strength of Chemically Setting Silicate and Silica Chemical Resistant Mortars.
- L. ASTM - The published standards of the American Society for Testing and Materials, West Conshohocken, PA.
- M. NACE - The published standards of National Association of Corrosion Engineers (NACE International), Houston, TX.
- N. SSPC - The published standards of the Society of Protective Coatings, Pittsburgh, PA.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

- O. Los Angeles County Sanitation District – Evaluation of Protective Coatings for Concrete.
 - P. ASTM F1216 (Including Appendix XI): Design Parameters for Buried Structures (structural rehabilitation) utilizing the External Buckling Equation for thickness determination.
 - Q. ASTM D2990: Test Methods for Tensile, Compressive and Flexural Creep and Creep Rupture in Plastics
 - R. SSPWC 210-2.3.3 - Chemical resistance testing published in the Standard Specifications for Public Works Construction, 1997 edition (otherwise known as “The Greenbook”).
- 1.5 SUBMITTALS
- A. SHOP DRAWINGS AND ENGINEERING DATA
 - 1. Submit complete shop drawings and Engineering data to the Engineer in accordance with the requirements of Supplemental Specifications. Submit Manufacturer’s literature, design data, samples, and warranty with the submittal. Manufacturer’s literature shall include material specifications, product safety sheets (MSDS sheets) and application instructions for the material to be used for the manhole lining work.
 - 2. Wall thickness design calculations for each manhole to be rehabilitated utilizing the specified resin technology systems must be submitted, along with supporting formulas that document that version of formula used. Additionally, product specific strength values, including the short term flexural modulus and the long term flexural modulus strength, must be substantiated by third party testing which will be submitted. The materials utilized for the contracted project shall be of a quality equal to or better than the materials used in the long term test with respect to the initial flexural modulus and the long term reduction factor used in design.
 - 3. Submit certification that the equipment to be used for applying the products has been manufactured or approved by the protective coating manufacturer and applicator personnel have been trained and certified for proper use of the equipment.
- 1.6 STORAGE AND PROTECTION
- A. Deliver materials in original sealed containers with seals unbroken and labels legible and intact, as applicable. Materials shall be delivered in sufficient quantities so as not to cause delay in the work. Materials shall be stored in accordance with the Manufacturer’s instruction.
- 1.7 GUARANTEE
- A. Provide a guarantee against defects and workmanship in accordance with the requirements of the General Specifications.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

1.8 DESIGN CONDITIONS

- A. The following design conditions shall be assumed for all structures being rehabilitated with the approved resin system:

Parameter	Design Requirement
1. Structure Condition	Partially Deteriorated, based on condition of the existing structure.
2. Soil Type	Saturated
3. Design Thickness	ASTM 1216-Appendix. XI
4. Ovality	Not greater than 5%
5. Soil Load	120 lbs/cu. ft.
6. Traffic Load	AASHTO-HS-20-44 Highway
7. Soil Modulus	>500 psi.<1000 psi.
8. Safety Factor	2.0
9. Soil Cover	Distance from grade to invert of pipe.
10. Water Table	Same as Soil Cover unless changed by Owner or Engineer.

1.9 MEASUREMENT AND PAYMENT

- A. Payment for this work will include all equipment, materials and labor necessary to perform the work under this specification as shown on the Drawings and specified herein and included in the Contract. The payment for this work shall be included in the unit price for Manhole and Lift Station Wet Well Sealing With Protective Polymer Lining.

PART 2 – PRODUCTS

2.1 MANHOLE SEALING PRODUCTS

- A. REPAIR MATERIAL

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

1. Standard Portland cement or new concrete (not quick setting high strength cement) must be well cured prior to application of the protective coating. Generally, 28 days is adequate cure time for standard Portland cement. If earlier application is desired, compressive or tensile strength of the concrete can be tested to determine if acceptable cure has occurred. (Note: Bond strength of the coating to the concrete surface is generally limited to the tensile strength of the concrete itself. Engineer may require Elcometer pull tests to determine suitability of concrete for coating.
2. Cementitious patching and repair materials should not be used unless their manufacturer provides information as to its suitability and procedures for topcoating with the approved coating. Project specific submittals should be provided including application, cure time and surface preparation procedures which permit optimum bond strength with the approved coating.
3. Repair materials shall be used to fill voids, structurally reinforce and/or rebuild surfaces, etc. as determined necessary by the protective coating applicator. Repair materials must be compatible with the specified coating and shall be applied in accordance with the manufacturer's recommendations.
4. The following products may be accepted and approved as compatible repair basecoat materials for approved topcoating for use within the specifications:
 - a. 100% solids, solvent-free grout specifically formulated for approved topcoating compatibility. The grout manufacturer shall provide instructions for trowel or spray application and for approved topcoating procedures.
 - b. Factory blended, rapid setting, high early strength, non-shrink repair mortar that can be troweled or pneumatically spray applied may be approved if specifically formulated to be suitable for approved topcoating. Such repair mortars should not be used unless their manufacturer provides information as to its suitability for topcoating with the approved topcoating. Project specific submittals should be provided including application, cure time and surface preparation procedures which permit optimum bond strength with the approved coating.
 - c. In the case of excessive infiltration, a hydraulic cement or plug may be used to stop the flow of the infiltration. Manufacturer's include Strong, Sika, Preco or approved equal. The hydraulic cement shall be compatible with the spray applied resin coating.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

B. PROTECTIVE LINING MATERIAL

1. Manufacturer: The protective lining material shall be SprayWall® as manufactured by Sprayroq, Inc., SpectraShield as manufactured by CCI Spectrum, Inc or approved equal.
2. The resin based material shall be used to form the sprayed structurally enhanced monolithic liner covering all interior surfaces of the structure, including benches and inverts of manholes. The physical requirements must be verified by an independent, certified, third party testing laboratory within the last five years and must be submitted with the shop drawings.

SprayWall lining shall conform to the following minimum properties:

Compressive strength	ASTM D 695	> 18,000 psi
Tensile strength	ASTM D 638	> 7,450 psi
Bond	Substrate Failure	
Flexural Modulus (initial)	ASTM D 790	> 735,000 psi
Flexural Modulus (long term)	ASTM D2990-01	> 520,000 psi
Density		87 ± pcf
Chemical Resistance: Severe Municipal Sewer: All types of service		

SpectraShield lining shall conform to the following minimum properties:

Compressive strength	ASTM D 1621	90-150 psi
Tensile strength	ASTM D 638	> 3,600 psi
Tear strength	ASTM D 624	550 pli
Bond	Substrate Failure	
Flexural Modulus (100%)		> 2,400 psi
Hardness (Shore D)	ASTM D2240	45
Density		4-10 pcf

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

Chemical Resistance: Severe Municipal Sewer: All types of service

3. When the wall of the resin based liner is to be structurally designed to withstand the hydraulic load generated by the groundwater table the long term (50yr) value of the flexural modulus of elasticity will be utilized to calculate the thickness of the structural liner. The initial flexural modulus of elasticity (short term) of the submitted resin material will be utilized with the long term deformation percentage as determined by ASTM D2990 (see below) in the design equation outlined in ASTM 1216-07b, Appendix X1. The value of the long term flexural modulus of the proposed product will be certified by an independent, certified, third party testing lab, independent of the Manufacturer and submitted with the bid package. The definition of long term value will be identified as initial flexural modulus of elasticity less the reduction in value caused by Creep over a fifty (50) year minimum period and verified by third party DMA testing (ASTM D2990). All design submittals will include this certified third party DMA testing (ASTM D2990) value in their respective design calculations for each structure being rehabilitated.
4. Unless dictated by the Owner or the Engineer, the finished corrosion repair will include the entire structure, including the bottom and any invert areas of the structure. The entire repaired structure will be repaired with the same material over the entire area of the structure.

C. PROTECTIVE LINING APPLICATION REQUIREMENTS

1. SprayWall® liner as manufactured by Sprayroq, Inc., shall have a minimum thickness of 125 mils.
2. SpectraShield liner as manufactured by CCI Spectrum, Inc shall have a minimum thickness of 500 mils.

D. PROTECTIVE LINING APPLICATION EQUIPMENT

1. Manufacturer approved heated plural component spray equipment shall be used in the application of the specified protective lining.

2.2 BENCH AND CHANNEL REPLACEMENT

- A. Concrete shall conform to the following ASTM standards: C-33; C-94; C-150; and C-494. Concrete shall have a 28 day cure strength of 4,500 psi and be resistant to weathering and abrasion.

2.3 WATER

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

- A. Water used to mix product shall be clean and potable and provided by the Contractor. Questionable water shall be tested by a laboratory per ASTM C-94 procedure.

PART 3 – EXECUTION

3.1 SEWER MANHOLE CLEANING

- A. Sewer manhole cleaning shall be performed as necessary to perform rehabilitation items as specified. It is recognized that there are some conditions such as deteriorated walls and major blockages that prevent cleaning from being accomplished or where additional damage would result if cleaning were attempted or continued. Should such conditions be encountered, the Contractor shall immediately notify the Engineer, who will decide whether to proceed with cleaning.
- B. Cleaning Precautions
1. During manhole cleaning operations, satisfactory precaution shall be taken in the use of cleaning equipment. When hydraulic cleaning tools (which depend upon water pressure to provide their cleaning force) are used, precautions shall be taken to ensure that the water pressure created does not damage the manhole or cause flooding of public or private property being served by the sewer.
 2. Any foreign material, including sludge, mud, sand, gravel, rocks, bricks, grease, and other debris shall be removed from the manhole. The removal of debris shall be completed before any flushing of the manhole occurs. All debris shall be completely removed and not allowed to enter the sewer pipe. After the debris is completely removed, the manhole walls, invert and bench surfaces shall be flushed using a high velocity water gun (minimum 5,000 psi water spray), to complete the cleaning. Verification of the cleaning work will be by visual inspection by the Engineer.
 3. If all deposits have not been removed from the manhole, a 10% solution of muriatic acid will be applied by spraying from above the manhole. Manholes treated with acid solution shall be thoroughly flushed and the manhole allowed to dry. The mixing, application, and removal of the acid solution shall be in strict accordance with the Manufacturers' specifications and recommendations. All safety procedures and protective devices applicable to the handling of the acid will be strictly adhered to.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

4. Remove existing coatings prior to application of the new protective coating. Applicator is to maintain strict adherence to applicable NACE and SSPC recommendations with regard to proper surface preparation and compatibility with existing coatings.
5. All existing manhole steps within the manholes shall be removed or cut off flush with the wall surface.

3.2 MATERIAL REMOVAL

- A. Debris such as sludge, rocks, grease, and other solid or semisolid material resulting from the cleaning operation shall be removed at the manhole being cleaned by the use of vacuum or other suitable equipment. Passing material from sewer section to sewer section shall not be permitted. Placement of a temporary dam in the downstream manhole exit may be necessary to prevent debris from washing downstream.

3.3 DISPOSAL OF MATERIALS

- A. All solids or semisolids resulting from the cleaning operations shall be removed from the site and disposed of offsite. No additional payment shall be made for the removal and offsite disposal of materials resulting from cleaning operations

3.4 ENVIRONMENTAL CONDITIONS

- A. When freezing temperatures are expected, the Contractor shall take measures to keep applied materials warm and provide the required heat in the manhole before repair work is started and the 24 hour period following application. No application shall be made if ambient temperature is below 40 degrees Fahrenheit. No application shall be made to frozen surfaces or if freezing is expected to occur within the substrate within 24 hours after application. Precautions shall be taken to keep the temperatures at time of application below
90 degrees Fahrenheit. Water temperature shall not exceed 80 degrees Fahrenheit.
Chill with ice if necessary.

3.5 SURFACE PREPARATION

- A. Each manhole shall be cleaned prior to the start of sealing operation, as described in Section 3.1 of this specification. The invert shall be covered during construction operations to prevent loose, extraneous materials from collecting in the invert and entering sewer lines. All loose, unsound, and protruding brick, mortar and concrete shall be removed. Before application of each material, surfaces to be sprayed or coated will be inspected by the Owner or Engineer.
- B. Applicator shall inspect all surfaces specified to receive a protective coating prior to surface preparation. Applicator shall notify Owner of any noticeable disparity

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

in the surfaces which may interfere with the proper preparation or application of the repair mortar and protective coating.

- C. All contaminants including: oils, grease, incompatible existing coatings, waxes, form release, curing compounds, efflorescence, sealers, salts, or other contaminants shall be removed.
- D. All concrete or mortar that is not sound or has been damaged by chemical exposure shall be removed to a sound concrete surface or replaced.
- E. Surface preparation method(s) should be based upon the conditions of the substrate, service environment and the requirements of the resin protective coating to be applied.
- F. Surfaces to receive protective coating shall be cleaned and abraded to produce a sound surface with adequate profile and porosity to provide a strong bond between the protective coating and the substrate. Generally, this can be achieved with a high pressure water cleaning using equipment capable of 5,000 psi at 4 gpm. Other methods such as high pressure water jetting (refer to NACE Standard No. 5/SSPC-SP12), abrasive blasting, shotblasting, grinding, scarifying or acid etching may also be used. Detergent water cleaning and hot water blasting may be necessary to remove oils, grease or other hydrocarbon residues from the concrete. Whichever method(s) are used, they shall be performed in a manner that provides a uniform, sound clean neutralized surface that is not excessively damaged.
- G. Infiltration shall be stopped by using a material which is compatible with the specified repair mortar and is suitable for topcoating with the specified protective coating. Flows should be totally plugged and/or diverted when coating the invert. All extraneous flows into the manhole at or above the area coated shall be plugged and/or diverted until the coating has set hard to the touch. As an option, hot air may be added to the manhole to accelerate set time of the coating.
- H. The area between the manhole and the manhole ring and any other area that might exhibit movement or cracking due to expansion and contraction, shall be grouted with a flexible grout or gel.
- I. Installation of the protective coating shall not commence until the concrete substrate has properly cured in accordance with these specifications.
- J. Temperature of the surface to be coated should be maintained between 50 degrees F and 120 degrees F during application. Prior to and during application, care should be taken to avoid exposure of direct sunlight or other intense heat source to the structure being coated. Where varying surface temperatures do exist, care should be taken to apply the coating when the temperature is falling versus rising (ie. late afternoon into evening vs. morning into afternoon).

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

3.6 APPLICATION OF REPAIR MATERIALS

- A. If using approved cementitious repair materials, such shall be troweled to provide a smooth surface with an average profile equivalent to coarse sandpaper to optimally receive the protective coating. No bugholes or honeycomb surfaces should remain after the final trowel procedure of the repair mortar.
- B. The repair materials shall be permitted to cure according to manufacturer recommendations. Curing compounds should not be used unless approved for compatibility with the specified protective coating.
- C. Application of the repair materials, if not performed by the coating certified applicator, should be inspected by the protective coating certified applicator to ensure proper finishing for suitability to receive the specified coating.
- D. After abrasive blast and leak repair is performed, all surfaces shall be inspected for remaining laitance prior to protective coating application. Any evidence of remaining contamination or laitance shall be removed by additional abrasive blast, shotblast or other approved method. If repair materials are used, refer to these specifications for surface preparation. Areas to be coated must also be prepared in accordance with these specifications after receiving a cementitious repair mortar and prior to application of the approved coating.
- E. All surfaces should be inspected during and after preparation and before the protective coating is applied.

3.7 VOID REPAIR

- A. Patching of manhole walls shall be required in areas where large voids exist (greater than 2 inches in depth) including missing bricks, cracks, spalls in manhole walls, around steps, frames, pipes and mortar joints. All cracked or disintegrated material shall be removed from the area to be patched exposing a clean, sound substrate. Patching material shall be used as specified and water plug type materials shall not be used for general patching. Missing bricks shall be replaced by a qualified mason.

3.8 ACTIVE LEAK REPAIR

- A. Wall repair shall include the sealing of all visible leaks in the manhole with infiltration control material as specified. Weep holes shall be installed as required to localize infiltration during application of patching material or infiltration control material. Weep holes shall be plugged after material application with infiltration control material prior to application of protective coating material. Wherever heavy infiltration is present due to high ground water and cannot be reasonably stopped, 5/8" diameter holes will be drilled at intervals around the base of the manhole wall to relieve outside pressure.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

All pressure leaks shall be sealed with a rapid setting pressure grout that bonds both mechanically and chemically to saturated surfaces. Once the walls have been rehabilitated, the drilled holes shall be plugged as specified in Section 2.1 A of this specification.

3.9 BENCH AND CHANNEL REPLACEMENT

- A. Manholes will require bench and/or channel removal and replacement as indicated on the Drawings.
- B. Forming new manhole inverts shall provide a smooth, straight, and uniform flow line from the invert of the inlet pipe(s) to the invert of the outlet pipe. Where laterals are present, the system shall provide for a sanitary sweep into the main flow line.
- C. New concrete shall be placed to a minimum 2 inch thickness, over solid existing concrete base properly prepared as specified for manhole walls. Where solid concrete does not remain after preparation, new concrete shall be poured to a minimum 4 inch thickness. The new bench shall be tapered up to the manhole wall at a minimum slope of 4:1.
- D. Channel repair shall include patching of the invert, bench areas and sewer lines in the manholes using patching material in accordance with the Manufacturer's recommendations. The flow channel shall be checked for leaks, cracks, spalls or other discrepancies by plugging the upstream side and visually inspecting the channel. Repairs to the channel shall be made after the flow has been blocked and the invert cleaned. The patching material shall be uniformly troweled onto the damaged channel at a minimum thickness of ½ inch at the invert. Material shall be extended out onto bench of manhole to sufficiently tie into liner material. Repairs made to the channel shall create a smooth surface and provide for smooth flow through the manhole. Flow shall be established after a minimum of 30 minutes after application of patching material. All loose and deteriorated material shall be removed from the work site and properly disposed of by the Contractor.

3.10 APPLICATION OF PROTECTIVE LINING MATERIAL

- A. Application procedures shall conform to the recommendations of the protective coating manufacturer, including material handling, mixing, environmental controls during application, safety, and spray equipment.
- B. The spray equipment shall be specifically designed to accurately ratio and apply the specified protective coating materials and shall be regularly maintained and in proper working order.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

- C. The protective coating material must be spray applied by a Certified Applicator of the protective coating manufacturer.
- D. Specified surfaces shall be coated by spray application of a solvent-free, 100% solids, polyurethane structural lining or 100% solids, silicone modified polyurea as further described herein.
- E. Airless spray application equipment approved by the coating manufacturer shall be used to apply each coat of the protective coating.
- F. If necessary, subsequent topcoating or additional coats of the protective coating should occur as soon as the basecoat becomes tack free, no later than the recoat window for the specified products. Additional surface preparation procedures will be required if this recoat window is exceeded.

3.11 CURING

- A. Liner product shall be cured for a minimum of 1 hour before releasing sanitary sewer flows.
- B. After final application of the liner product, traffic shall be withheld 4 to 6 hours.

3.12 PRODUCT TESTING

- A. High Voltage Spark Test. After the protective coating has set hard to the touch it shall be inspected by the Contractor and witnessed by the Owner with high- voltage holiday detection equipment. This test is critical when applied to corrosion protection applications (i.e. mil coatings less than 250 mils). Surface shall first be dried, an induced holiday shall then be made on to the coated concrete or metal surface and shall serve to determine the minimum/maximum voltage to be used to test the coating for holidays at that particular area. The spark tester shall be initially set at 100 volts per 1 mil (25 microns) of film thickness applied but may be adjusted as necessary to detect the induced holiday (refer to NACE RPO188-99). All detected holidays shall be marked and repaired by abrading the coating surface with grit disk paper or other hand tooling method. After abrading and cleaning, additional protective coating material can be hand applied to the repair area. All touch-up/repair procedures shall follow the protective coating manufacturer's recommendations.
- B. Adhesion Testing. The adhesion tests shall be performed by the Contractor on a minimum of one or 10% of all rehabilitated structures, whichever is greater, or as shown on the Plan and/or specified in the Special Provisions. Adhesion testing shall be conducted after the lining or coating system has cured per manufacturer instruction and in accordance with ASTM D4541 or ASTM 7234 as modified herein. Adhesion is critical for proper performance of a corrosion barrier (i.e. < 250 mils). A minimum of one 20 mm dolly shall be affixed to the lined surface of

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

the structure at the upper section or cone area, midsection and at the bottom, unless otherwise specified in the Special Provisions. Each testing location shall be identified by the Owner. The adhesive used to attach the dollies to the liner shall be rapid setting with tensile strength in excess of the liner material and permitted to cure in accordance with manufacturer recommendations. The lining material and dollies shall be adequately prepared to receive the adhesive. Prior to pull test, the Contractor shall utilize a scoring device to cut through the coating until the substrate is reached. Extreme care shall be required while scoring to prevent micro cracking in the coating, since cracks may cause failures at diminished strengths. Failure due to improper dolly adhesive or scoring shall require retesting. The pull tests in each area shall meet or exceed 200 psi. and shall include subbase adhered to the back of the dolly or no visual signs of coating material in the test hole. Pull tests with results between a minimum 150 psi and 200 psi shall be acceptable if more than 50% of the subsurface is adhered to the back of the dolly. A test result can be discarded, as determined by the Owner, if there is a valid nonstatistical reason for discarding the test results as directed by Sections 8.4 and 8.5 of ASTM D4541 and ASTM 7234. If any test fails, a minimum of three additional locations in the section of the failure shall be tested, as directed by the Owner. If any of the retests fail, all loosely adhered or unadhered liner in the failed area, as determined by the Owner shall be removed and replaced at the Contractor's expense.

NOTE: The mil thickness will be measured and confirmed with the scored and pulled test samples. In structural repairs (partially or fully deteriorated design assumptions), it is critical to confirm the design thickness with the pulled sample as adhesion is not assumed in the ASTM 1216 design. The primary purpose of the pull test in structural rehabilitation is to confirm applied thickness, not adhesion. Any derived adhesion is further enhancement to the final installation strength of the rehabilitated structure.

3.12 QUALITY CONTROL TESTING

- A. Once all manholes have been sealed and the proper curing time for the waterproofing materials has elapsed, the manholes shall be visually inspected by viewing from street level for the elimination of infiltration by the Contractor in the presence of the Owner. The inspection shall be performed at the discretion of the Owner during the warranty period following rainfall sufficient to raise the ground water table above the problem areas. All leakage problems determined by this inspection shall be corrected by the Contractor within an agreed upon time, to the satisfaction of the Owner, at no additional cost.

END OF SECTION

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

Section IX: Signature and Proposal Pages

Signature Page

**Ridgewood East Phase 1 – Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project**

To the Director of Public Service of the City of Canton:

The undersigned, having carefully examined the complete invitation to bid, herewith proposes to furnish all the labor and materials required to complete the **Ridgewood East Phase 1 – Part 1 Water Main Replacement Project and Part 2 (22nd/24th Street NE) Roadway Reconstruction Project** in accordance with the specifications on file, including any and all work and materials that may be necessary to complete the project in a proper and workmanlike manner, and in accordance with the instructions in the bid packet and under the direction of and to the satisfaction of the Director of Public Service of said City.

The bidder hereby agrees that the Director of Public Service has the right to reject any and all bids and to accept the bid(s) deemed most beneficial to the City of Canton.

The bidder hereby certifies that the undersigned _____ is the only person interested in the bid and the bidder herewith certifies that no officer or employee of the City of Canton is in any manner interested therein.

The bidder herewith encloses a _____ **(BID BOND, CERTIFIED/CASHIER'S CHECK)** in the sum of \$ _____ dollars made payable to the CITY OF CANTON as a guaranty that if awarded the contract for the work included in the proposal, will enter into contract therefore, with sureties satisfactory to the Director of Public Service, within the prescribed time of ten (10) days from the date of service of notice of award, otherwise such bond or checks shall become the property of said City, as liquidated damages of the failure on the bidder's part to do said contract within the specified time.

The bidder acknowledges receipt of Addenda Numbers: _____.

SIGNATURE OF BIDDER: _____.

(1.)**NOTE:** If bidder is a corporation, set forth the legal name of the corporation, together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If bidder is a partnership, set forth the name of the firm, together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership.

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Proposal Page

We (I), the above signed hereby propose to furnish the following article(s) and/or service(s) at the price(s) and terms stated subject to all instructions, conditions, specifications, and all attachments hereto. We (I) have read all attachments including the specifications and fully understand what is required.

PART 1: WATER MAIN REPLACEMENT PROJECT - BASE BID

BID ITEM	ODOT ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE LABOR	UNIT PRICE MATERIAL	TOTAL UNIT PRICE	ITEM TOTAL
ROADWAY								
1-1	202	Pavement Removed	27	SY				
1-2	202	Walk Removed	125	SF				
1-3	202	Curb and Gutter Removed	50	FT				
1-4	204	Subgrade Compaction	27	SY				
1-5	204	Proof Rolling	3	HOUR				
1-6	206	Cement	118	TON				
1-7	206	Cement Stabilized Subgrade, 12 Inches Deep	3,970	SY				
1-8	206	Curing Coat	3,970	SY				
1-9	206	Mixture Design for Chemically Stabilized Soils	1	LUMP				
1-10	608	4" Concrete Walk	125	SF				
1-11	690	Special - Brick Pavement Restoration	3,970	SY				
DRAINAGE								
1-12	832	Erosion Control	5,000	EACH				
PAVEMENT								
1-13	301	Asphalt Concrete Base, PG64-22	80	CY				

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

BID ITEM	ODOT ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE LABOR	UNIT PRICE MATERIAL	TOTAL UNIT PRICE	ITEM TOTAL
1-14	304	Aggregate Base	711	CY				
1-15	407	Tack Coat	37	GAL				
1-16	441	Asphalt Concrete Surface Course, Type 1, (448), PG 64-22	21	CY				
1-17	609	Combination Curb and Gutter, Type 2	50	FT				
WATER WORKS								
1-18	638	6" Water Main Ductile Iron Pipe ANSI Class 52, Push-On Joints and Fittings	2,500	FT				
1-19	638	8" Water Main Ductile Iron Pipe ANSI Class 52, Push-On Joints and Fittings	320	FT				
1-20	638	12" Water Main Ductile Iron Pipe ANSI Class 53, Push-On Joints and Fittings	555	FT				
1-21	638	6" Gate Valve	12	EACH				
1-22	638	8" Gate Valve	2	EACH				
1-23	638	12" Gate Valve	4	EACH				
1-24	638	1" Water Service Connection, Short Side (Complete)	21	EACH				
1-25	638	1" Water Service Connection, Long Side (Complete)	21	EACH				
1-26	638	1" Temporary Water Service Connection, Short Side (Complete)	1	EACH				
1-27	638	1" Temporary Water Service Connection, Long Side (Complete)	1	EACH				
1-28	638	6" - 11.25 Degree Bend	3	EACH				
1-29	638	6" - 22.5 Degree Bend	23	EACH				
1-30	638	8" - 11.25 Degree Bend	1	EACH				

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

BID ITEM	ODOT ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE LABOR	UNIT PRICE MATERIAL	TOTAL UNIT PRICE	ITEM TOTAL
1-31	638	12" - 22.5 Degree Bend	4	EACH				
1-32	638	12" - 45 Degree Bend	6	EACH				
1-33	638	6" Cut-in Sleeve	3	EACH				
1-34	638	12" Cut-in Sleeve	2	EACH				
1-35	638	6" Plug	8	EACH				
1-36	638	8" Plug	2	EACH				
1-37	638	12" Plug	2	EACH				
1-38	638	6" x 6" TEE	1	EACH				
1-39	638	8" x 6" TEE	1	EACH				
1-40	638	12" x 6" Cross	2	EACH				
1-41	638	18" x 8" Tapping Sleeve and Valve	1	EACH				
1-42	638	Fire Hydrant Assembly	6	EACH				
1-43	638	Fire Hydrant Removed	4	EACH				
1-44	638	Abandon Existing Valve	11	EACH				
1-45	638	Remove Existing Valve	1	EACH				
INCIDENTALS								
1-46	614	MAINTAINING TRAFFIC	1	LUMP				
1-47	623	CONSTRUCTION LAYOUT STAKES AND SURVEYING	1	LUMP				
1-48	624	MOBILIZATION	1	LUMP				
PART 1: WATER MAIN REPLACEMENT PROJECT - BASE BID TOTAL =								

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

PART 2: (22nd/24th STREET NE) ROADWAY RECONSTRUCTION PROJECT - BASE BID

BID ITEM	ODOT ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE LABOR	UNIT PRICE MATERIAL	TOTAL UNIT PRICE	ITEM TOTAL
ROADWAY								
2-1	202	Pavement Removed	88	SY				
2-2	202	Walk Removed	250	SF				
2-3	202	Curb Removed	80	FT				
2-4	202	Curb and Gutter Removed	100	FT				
2-5	202	Pipe Removed, 24" and Under	256	FT				
2-6	202	Catch Basin or Inlet Removed	15	EACH				
2-7	204	Subgrade Compaction	200	SY				
2-8	204	Proof Rolling	3	HOUR				
2-9	206	Cement	130	TON				
2-10	206	Cement Stabilized Subgrade, 12 Inches Deep	4,362	SY				
2-11	206	Curing Coat	4,362	SY				
2-12	206	Mixture Design for Chemically Stabilized Soils	1	LUMP				
2-13	608	4" Concrete Walk	250	SF				
2-14	608	Curb Ramp	595	SF				
2-15	608	Detectable Warning	10	SF				
2-16	690	Special - Brick Pavement Restoration	4,362	SY				
DRAINAGE								
2-17	605	4" Shallow Pipe Underdrains with Geotextile Fabric	4,525	FT				

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

BID ITEM	ODOT ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE LABOR	UNIT PRICE MATERIAL	TOTAL UNIT PRICE	ITEM TOTAL
2-18	611	12" Conduit, Type B	71	FT				
2-19	611	15" Conduit, Type B	185	FT				
2-20	611	Catch Basin, Misc.: Curb Inlet Catch Basin SCD#1	13	EACH				
2-21	611	Catch Basin, Misc.: Hillside Curb Inlet Catch Basin SCD#3	2	EACH				
2-22	832	Erosion Control	5,000	EACH				
PAVEMENT								
2-23	301	Asphalt Concrete Base, PG64-22	15	CY				
2-24	304	Aggregate Base	216	CY				
2-25	407	Tack Coat	7	GAL				
2-26	441	Asphalt Concrete Surface Course, Type 1, (448), PG 64-22	4	CY				
2-27	452	10" Non-Reinforced Concrete Pavement, Class QC1	112	SY				
2-28	609	Combination Curb and Gutter, Type 2	180	FT				
SANITARY SEWER								
2-29	611	Manhole, Misc.: Manhole Sealing with Protective Polymer Lining	9	EACH				
INCIDENTALS								
2-30	614	MAINTAINING TRAFFIC	1	LUMP				
2-31	623	CONSTRUCTION LAYOUT STAKES AND SURVEYING	1	LUMP				
2-32	624	MOBILIZATION	1	LUMP				
PART 2: (22nd/24th STREET NE) ROADWAY RECONSTRUCTION PROJECT - BASE BID TOTAL =								

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Part 1 + Part 2 Base Bid Price in Figures

Part 1 + Part 2 Base Bid Price in Words

**Base Bid Prices are for Informational Purposes Only.
Total Unit Prices will govern.**

**Ridgewood East Phase 1 - Part 1 Water Main Replacement Project and
Part 2 (22nd/24th Street NE) Roadway Reconstruction Project
The City of Canton Water Department**

Appendix A: Contractor's Final Release and Waiver of Lien

Project/Owner	Contractor
Project: _____	Name: _____
Address: _____	Address: _____
_____	_____
City State Zip	City State Zip
Owner: _____	Contractor License: _____
Contract Date: _____	

TO ALL WHOM IT MAY CONCERN:

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned Contractor hereby waives, discharges, and releases any and all liens, claims, and rights to liens against the above-mentioned project, and any and all other property owned by or the title to which is in the name of the above-referenced Owner and against any and all funds of the Owner appropriated or available for the construction of said project, and any and all warrants drawn upon or issued against any such funds or monies, which the undersigned Contractor may have or may hereafter acquire or possess as a result of the furnishing of labor, materials, and/or equipment, and the performance of Work by the Contractor on or in connection with said project, whether under and pursuant to the above-mentioned contract between the Contractor and the Owner pertaining to said project or otherwise, and which said liens, claims or rights of lien may arise and exist.

The undersigned further hereby acknowledges that the sum of _____

Dollars (\$_____) constitutes the entire unpaid balance due the undersigned in connection with said project whether under said contract or otherwise and that the payment of said sum to the Contractor will constitute payment in full and will fully satisfy any and all liens, claims, and demands which the Contractor may have or assert against the Owner in connection with said contract or project.

Dated this ____ day of _____ 20____

Signature

Witness to Signature:

Name Printed: _____

Title: _____

Prevailing Wage Determination Cover Letter

County: STARK
Determination Date: 11/15/2018
Expiration Date: 02/15/2019

THE FOLLOWING PAGES ARE PREVAILING RATES OF WAGES ON PUBLIC IMPROVEMENTS FAIRLY ESTIMATED TO BE MORE THAN THE AMOUNT IN O.R.C. SEC. 4115.03 (b) (1) or (2), AS APPLICABLE.

Section 4115.05 provides, in part: "Where contracts are not awarded or construction undertaken within ninety days from the date of the establishment of the prevailing wages, there shall be a redetermination of the prevailing rate of wages before the contract is awarded." The expiration date of this wage schedule is listed above for your convenience only. This wage determination is not intended as a blanket determination to be used for all projects during this period without prior approval of this Department.

Section 4115.04, Ohio Revised Code provides, in part: "Such schedule of wages shall be attached to and made a part of the specifications for the work, and shall be printed on the bidding blanks where the work is done by contract..."

The contract between the letting authority and the successful bidder shall contain a statement requiring that mechanics and laborers be paid a prevailing rate of wage as required in Section 4115.06, Ohio Revised Code.

The contractor or subcontractor is required to file with the contracting public authority upon completion of the project and prior to final payment therefore an affidavit stating that he has fully complied with Chapter 4115 of the Ohio Revised Code.

The wage rates contained in this schedule are the "Prevailing Wages" as defined by Section 4115.03, Ohio Revised Code (the basic hourly rates plus certain fringe benefits). These rates and fringes shall be a minimum to be paid under a contract regulated by Chapter 4115 of the Ohio Revised Code by contractors and subcontractors. The prevailing wage rates contained in this schedule include the effective dates and wage rates currently on file. In cases where future effective dates are not included in this schedule, modifications to the wage schedule will be furnished to the Prevailing Wage Coordinator appointed by the public authority as soon as prevailing wage rates increases are received by this office.

"There shall be posted in a prominent and accessible place on the site of work a legible statement of the Schedule of Wage Rates specified in the contract to the various classifications of laborers, workmen, and mechanics employed, said statement to remain posted during the life of such contract." Section 4115.07, Ohio Revised Code.

Apprentices will be permitted to work only under a bona fide apprenticeship program if such program exists and if such program is registered with the Ohio Apprenticeship Council.

Section 4115.071 provides that no later than ten days before the first payment of wages is due to any employee of any contractor or subcontractor working on a contract regulated by Chapter 4115, Ohio Revised Code, the contracting public authority shall appoint one of his own employees to act as the prevailing wage coordinator for said contract. The duties of the prevailing wage coordinator are outlined in Section 4115.071 of the Ohio Revised Code.

Section 4115.05 provides for an escalator in the prevailing wage rate. Each time a new rate is established, that rate is required to be paid on all ongoing public improvement projects.

A further requirement of Section 4115.05 of the Ohio Revised Code is: "On the occasion of the first pay date under a contract, the contractor shall furnish each employee not covered by a collective bargaining agreement or understanding between employers and bona fide organizations of Labor with individual written notification of the job classification to which the employee is assigned, the prevailing wage determined to be applicable to that classification, separated into the hourly rate of pay and the fringe payments, and the identity of the prevailing wage Coordinator appointed by the public authority. The contractor or subcontractor shall furnish the same notification to each affected employee every time the job classification of the employee is changed."

Work performed in connection with the installation of modular furniture may be subject to prevailing wage.

**THIS PACKET IS NOT TO BE SEPARATED BUT IS TO REMAIN COMPLETE AS IT IS SUBMITTED TO YOU.
(Reference guidelines and forms are included in this packet to be helpful in the compliance of the Prevailing Wage law.)**

wh1500

Appendix B
of Ashtabula, Austinburg, Geneva, Harperfield, Jefferson, Plymouth & Saybrook) (townships of Andover, Cherry Valley, Colbrook, Canneaut, Denmark, Dorset, East Orwell, Hartsgrove, Kingville, Lenox, Monroe, Morgan, New Lyme, North Kingsville, Orwell, Pierpoint, Richmond Rock Creek, Rome, Sheffield, Trumbull, Wayne, Williamsfield & Windsor) Erie County: (post offices & townships of Berlin, Berlin Heights, Birmingham, Florence, Huron, Milan, Shinrock & Vermilion)

Details :

Asbestos & lead paint abatement including, but not limited to the removal or encapsulation of asbestos & lead paint, all work in conjunction with the preparation of the removal of same & all work in conjunction with the clean up after said removal. The removal of all insulation materials, whether they contain asbestos or not, from mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) is recognized as being the exclusive work of the Asbestos Abatement Workers.

On all mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) that are going to be demolished, the removal of all insulating materials whether they contain asbestos or not shall be the exclusive work of the Laborers.

An Abatement Journeyman is anyone who has more than 300 hours in the Asbestos Abatement field.



Appendix B

5 Journeymen to 1 Apprentice to 1 Helper

ASHTABULA, CARROLL, COSHOCTON,
CUYAHOGA, GEAUGA, HARRISON, HOLMES,
LAKE, LORAIN, MAHONING, MEDINA,
PORTAGE, STARK, SUMMIT, TRUMBULL,
TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Appendix B

9 Journeymen to 3 Apprentice

13 Journeymen to 4 Apprentice

Special Jurisdictional Note :

Details :

Appendix B

7th 6 months	94.88	\$21.98	\$5.00	\$7.85	\$0.20	\$0.00	\$0.37	\$0.37	\$0.00	\$0.00	\$35.77	\$46.77
8th 6 months	94.88	\$21.98	\$5.00	\$7.85	\$0.20	\$0.00	\$0.37	\$0.37	\$0.00	\$0.00	\$35.77	\$46.77

Special Calculation Note : Other \$.40 is for International Masonry Training. Classification title contains "Bricklayer" because contract originates within the Bricklayer Local.

Note that the classification description is clarified after the local union number at the top of the page.

Ratio :

Journeyman 4 to 1 Apprentice

Journeyman 6 to 1 Apprentice thereafter

Jurisdiction (* denotes special jurisdictional note) :

ASHTABULA, CARROLL, COLUMBIANA, COSHOCTON, HARRISON, HOLMES, JEFFERSON, MAHONING, PORTAGE, STARK, TRUMBULL, TUSCARAWAS, WAYNE

Special Jurisdictional Note : Townships in Columbiana County are as follows: Salem, Perry, Fairfield, Center Elkrun, Middletown and Unity

Details :

Mechanic's assistants shall do all the handling, of sand, cement, lime, tile, marble, terrazzo and other materials used by the mechanics upon being delivered to the building or at the job. Hand rubbing, rolling, mixing, formulating, grinding, grouting, and cleaning of all marble, tile, mosaic, and terrazzo floors, and wainscoting, and such other work as is required in helping a mechanic as is the established custom of the trade. No limit to the tools, equipment or machinery used.

Prevailing Wage Rate Skilled Crafts

Name of Union: Bricklayer Local 8 Zone 2 Tile Setters & Finishers

Change # : LCN1-2018fbLoc6

Craft : Bricklayer Effective Date : 06/01/2018 Last Posted : 05/30/2018

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Bricklayer Tile Setter	\$25.05		\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38.26	\$50.79
Marble Mason	\$25.05		\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38.26	\$50.79
Terrazzo worker	\$25.05		\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38.26	\$50.79
Finisher Support	\$22.46		\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.67	\$46.90
APPRENTICE Finisher Support Only												
1st 30 days	\$13.48		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.48	\$20.22
30 days-6 months	\$13.48		\$7.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.48	\$27.22
2ND 6 months	\$15.72		\$7.00	\$5.63	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28.91	\$36.77
3RD 6 months	\$16.85		\$7.00	\$5.63	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30.04	\$38.47
4TH 6 months	\$17.97		\$7.00	\$5.63	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$31.16	\$40.15
5TH 6 months	\$19.09		\$7.00	\$5.63	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$32.28	\$41.83
6TH 6 months	\$20.21		\$7.00	\$5.63	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$33.40	\$43.51
Apprentice Percent												
1st 30 Days	60.00	\$15.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.03	\$22.54
30 days- 6 months	60.00	\$15.03	\$7.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.03	\$29.54
2nd 6 months	70.00	\$17.53	\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30.74	\$39.51
3rd 6 months	75.00	\$18.79	\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$32.00	\$41.39
4th 6 months	80.00	\$20.04	\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$33.25	\$43.27
5th 6 months	85.00	\$21.29	\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$34.50	\$45.15
6th 6 months	90.00	\$22.55	\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.76	\$47.03
7th 6 months	95.00	\$23.80	\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$37.01	\$48.91

Appendix B

8th 6 months	95.00	\$23.80	\$7.00	\$5.63	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$37.01	\$48.91
--------------	-------	---------	--------	--------	--------	--------	--------	--------	--------	--------	---------	---------

Special Calculation Note : Classification title contains "Bricklayer" because contract originates within the Bricklayer Local.

Note that the classification description is clarified after the local union number at the top of the page.

Ratio :

4 Journeymen to 1 Apprentice
 6 Journeymen to 1 Apprentice (Thereafter)

Jurisdiction (* denotes special jurisdictional note) :

BELMONT, CARROLL, HARRISON,
 JEFFERSON, MONROE, STARK,
 TUSCARAWAS

Special Jurisdictional Note :

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter Commercial NE Zone 2B

Change # : LCN01-2018fbLocNEZone2B

Craft : Carpenter Effective Date : 09/19/2018 Last Posted : 09/19/2018

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Carpenter	\$26.20		\$6.77	\$9.37	\$0.45	\$0.00	\$0.57	\$0.00	\$0.00	\$0.00	\$43.36	\$56.46
Apprentice	Percent											
1st 3 Months	60.00	\$15.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.72	\$23.58
2nd 3 Months	60.00	\$15.72	\$6.77	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.94	\$30.80
2nd 6 Months is 1st year	60.00	\$15.72	\$6.77	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.94	\$30.80
3rd 6 Months	60.00	\$15.72	\$6.77	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.94	\$30.80
4th 6 Months is 2nd year	60.00	\$15.72	\$6.77	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.94	\$30.80
5th 6 Months	70.00	\$18.34	\$6.77	\$6.56	\$0.45	\$0.00	\$0.40	\$0.00	\$0.00	\$0.00	\$32.52	\$41.69
6th 6 Months is 3rd year	75.00	\$19.65	\$6.77	\$7.03	\$0.45	\$0.00	\$0.43	\$0.00	\$0.00	\$0.00	\$34.33	\$44.16
7th 6 Months	80.00	\$20.96	\$6.77	\$7.50	\$0.45	\$0.00	\$0.46	\$0.00	\$0.00	\$0.00	\$36.14	\$46.62
8th 6 Months is 4th year	85.00	\$22.27	\$6.77	\$7.96	\$0.45	\$0.00	\$0.48	\$0.00	\$0.00	\$0.00	\$37.93	\$49.07

Special Calculation Note :

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :



LAWRENCE, LICKING, LOGAN, LORAIN,
LUCAS, MADISON, MAHONING, MARION,
MEDINA, MEIGS, MERCER, MIAMI, MONROE,
MONTGOMERY, MORGAN, MORROW,
MUSKINGUM, NOBLE, OTTAWA, PAULDING,
PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE,
PUTNAM, RICHLAND, ROSS, SANDUSKY,
SCIOTO, SENECA, SHELBY, STARK, SUMMIT,
TRUMBULL, TUSCARAWAS, UNION, VAN
WERT, VINTON, WARREN, WASHINGTON,
WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter Millwright NE Zone M3

Change # : LCN01-2018fbLocNEZoneM3

Craft : Carpenter Effective Date : 09/19/2018 Last Posted : 09/19/2018

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Carpenter Millwright	\$26.06		\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$44.17	\$57.20
Certified Welder	\$27.06		\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$45.17	\$58.70
Lay-Out Man on Monorail	\$27.56		\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$45.67	\$59.45
Apprentice	Percent											
1st 6 months	60.00	\$15.64	\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$33.75	\$41.56
2nd 6 months	60.00	\$15.64	\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$33.75	\$41.56
3rd 6 months	62.00	\$16.16	\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$34.27	\$42.35
4th 6 months	65.50	\$17.07	\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$35.18	\$43.71
5th 6 months	69.00	\$17.98	\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$36.09	\$45.08
6th 6 months	72.50	\$18.89	\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$37.00	\$46.45
7th 6 months	76.00	\$19.81	\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$37.92	\$47.82
8th 6 months	80.00	\$20.85	\$6.80	\$9.10	\$0.45	\$0.00	\$1.71	\$0.05	\$0.00	\$0.00	\$38.96	\$49.38

Special Calculation Note : Other \$0.05 is UBC Millwright Promotional Fund

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

The term "Millwright and Machine Erectors" jurisdiction shall mean the unloading, hoisting, rigging,

Appendix B

skidding, moving, dismantling, aligning, erecting, assembling, repairing, maintenance and adjusting of all structures, processing areas either under cover, under ground or elsewhere, required to process material, handle, manufacture or service, be it powered or receiving power manually, by steam, gas, electricity, gasoline, diesel, nuclear, solar, water, air or chemically, and in industries such as and including, which are identified for the purpose of description, but not limited to, the following: woodworking plants; canning industries; steel mills; coffee roasting plants; paper and pulp; cellophane; stone crushing; gravel and sand washing and handling; refineries; grain storage and handling; asphalt plants; sewage disposal; water plants; laundries; bakeries; mixing plants; can, bottle and bag packing plants; textile mills; paint mills; breweries; milk processing plants; power plants; aluminum processing or manufacturing plants; and amusement and entertainment fields. The installation of mechanical equipment in atomic energy plants; installation of reactors in power plants; installation of control rods and equipment in reactors; and installation of mechanical equipment in rocket missile bases, launchers, launching gantry, floating bases, hydraulic escape doors and any and all component parts thereto, either assembled, semi-assembled or disassembled. The installation of, but not limited to, the following: setting-up of all engines, motors, generators, air compressors, fans, pumps, scales, hoppers, conveyors of all types, sizes and their supports; escalators; man lifts; moving sidewalks; hoists; dumb waiters; all types of feeding machinery; amusement devices; mechanical pin setters and spotters in bowling alleys; refrigeration equipment; and the installation of all types of equipment necessary and required to process material either in the manufacturing or servicing. The handling and installation of pulleys, gears, sheaves, fly wheels, air and vacuum drives, worm drives and gear drives directly or indirectly coupled to motors, belts, chains, screws, legs, boots, guards, booth tanks, all bin valves, turn heads and indicators, shafting, bearings, cable sprockets, cutting all key seats in new and old work, troughs, chippers, filters, calendars, rolls, winders, rewinders, slitters, cutters, wrapping machines, blowers, forging machines, rams, hydraulic or otherwise, planing, extruder, ball, dust collectors, equipment in meat packing plants, splicing of ropes and cables. The laying-out, fabrication and installation of protection equipment including machinery guards, making and setting of templates for machinery, fabrication of bolts, nuts, pans, drilling of holes for any equipment which the Millwrights install regardless of materials; all welding and burning regardless of type, fabrication of all lines, hose or tubing used in lubricating machinery installed by Millwrights; grinding, cleaning, servicing and any machine work necessary for any part of any equipment installed by the Millwrights; and the break-in and trial run of any equipment or machinery installed by the Millwrights. It is agreed the Millwrights shall use the layout tools and optic equipment necessary to perform their work.

Appendix B

MARION, MEDINA, MEIGS, MERCER, MIAMI,
MONROE, MONTGOMERY, MORGAN,
MORROW, MUSKINGUM, NOBLE, OTTAWA,
PAULDING, PERRY, PICKAWAY, PIKE,
PORTAGE, PREBLE, PUTNAM, RICHLAND,
ROSS, SANDUSKY, SCIOTO, SENECA,
SHELBY, STARK, SUMMIT, TRUMBULL,
TUSCARAWAS, UNION, VAN WERT, VINTON,
WARREN, WASHINGTON, WAYNE,
WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note : Industrial Dock and Door is the installation of overhead doors, roll up doors and dock leveling equipment

Details :

10/27/10 New Contract jc

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter Insulation NE Zone 2B

Change # : LCN01-2018fbLocNEZone2B

Craft : Carpenter Effective Date : 09/19/2018 Last Posted : 09/19/2018

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Carpenter Insulation	\$20.96		\$6.77	\$9.37	\$0.45	\$0.00	\$0.57	\$0.00	\$0.00	\$0.00	\$38.12	\$48.60
Apprentice	Percent											
1st 3 months	50.00	\$10.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.48	\$15.72
2nd 3 months	50.00	\$10.48	\$6.77	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.70	\$22.94
2nd 6 months	50.00	\$10.48	\$6.77	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.70	\$22.94
3rd 6 months	55.00	\$11.53	\$6.77	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.75	\$24.51
4th 6 months	60.00	\$12.58	\$6.77	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.80	\$26.08
5th 6 months	70.00	\$14.67	\$6.77	\$6.56	\$0.45	\$0.00	\$0.40	\$0.00	\$0.00	\$0.00	\$28.85	\$36.19
6th 6 months	75.00	\$15.72	\$6.77	\$7.03	\$0.45	\$0.00	\$0.43	\$0.00	\$0.00	\$0.00	\$30.40	\$38.26
7th 6 months	80.00	\$16.77	\$6.77	\$7.50	\$0.45	\$0.00	\$0.46	\$0.00	\$0.00	\$0.00	\$31.95	\$40.33
8th 6 months	85.00	\$17.82	\$6.77	\$7.96	\$0.45	\$0.00	\$0.48	\$0.00	\$0.00	\$0.00	\$33.48	\$42.38

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter Pile Driver NE Zone P3

Change # : LCN01-2018fbLocNEZoneP3

Craft : Carpenter Effective Date : 09/19/2018 Last Posted : 09/19/2018

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Carpenter Pile Driver	\$26.01		\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$43.91	\$56.92
Diver	\$39.02		\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$56.92	\$76.43
Certified Welder	\$27.06		\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$44.96	\$58.49
Apprentice	Percent											
1st 6 months	60.00	\$15.61	\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$33.51	\$41.31
2nd 6 months	60.00	\$15.61	\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$33.51	\$41.31
3rd 6 months	62.00	\$16.13	\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$34.03	\$42.09
4th 6 months	65.50	\$17.04	\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$34.94	\$43.45
5th 6 months	69.00	\$17.95	\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$35.85	\$44.82
6th 6 months	72.50	\$18.86	\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$36.76	\$46.19
7th 6 months	76.00	\$19.77	\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$37.67	\$47.55
8th 6 months	80.00	\$20.81	\$6.70	\$9.10	\$0.45	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$38.71	\$49.11

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

STARK, WAYNE, CARROLL, TUSCARAWAS

Special Jurisdictional Note :

Details :

Pile Drivers duties shall include but not limited to: Pile driving, milling, fashioning, joining assembling,

erecting, fastening, or dismantling of all material of wood, plastic, metal, fiber, cork and composition and all other substitute materials: pile driving, cutting, fitting and placing of lagging, and the handling, cleaning, erecting, installing and dismantling of machinery, equipment and erecting pre-engineered metal buildings. Pile Drivers work but not limited to: unloading, assembling, erection, repairs, operation, signaling, dismantling and reloading all equipment that is used for pile driving including pile butts is defined as sheeting or scrap piling. Underwater work that may be required in connection with the installation of piling. The driver and his tender work as a team and shall arrive at their own financial arrangements with the contractor. Any configuration of wood, steel, concrete or composite that is jettied, driven or vibrated onto the ground by conventional pile driving equipment for the purpose of supporting a future load that may be permanent or temporary. The construction of all wharves and docks, including the fabrication and installation of floating docks. Driving bracing, plumbing, cutting off and capping of all piling whether wood, metal, pipe piling or composite, loading, unloading, erecting, framing, dismantling, moving and handling of pile driving equipment piling used in the construction and repair of all wharves, docks, piers, trestles, caissons, cofferdams and erection of all sea walls and breakwaters. All underwater and marine work on bulkheads, wharves, docks, shipyards, caissons, piers, bridges, pipeline, work, viaducts, marine cable and trestles, as well as salvage and reclamation work where divers are employed. Rate shall include carpenters, acoustic and ceiling installers, drywall installers, pile drivers and floorlayers.

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter Statewide Office Systems

Change # : LCR02-2010jcJurSTWIDEOfficeSystems

Craft : Carpenter Effective Date : 07/28/2010 Last Posted : 07/28/2010

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter Installers	\$16.00		\$5.47	\$1.00	\$0.08	\$0.00	\$0.00	\$0.00			\$22.55	\$30.55
Helper	\$9.50		\$5.47	\$0.00	\$0.08	\$0.00	\$0.00	\$0.00			\$15.05	\$19.80
Installer Trainee	Percent											
1st 6 months	59.40	\$9.50	\$5.47	\$0.00	\$0.08	\$0.00	\$0.00	\$0.00			\$15.05	\$19.81
2nd 6 Months	62.00	\$9.92	\$5.47	\$0.00	\$0.08	\$0.00	\$0.00	\$0.00			\$15.47	\$20.43
3rd 6 Months	65.00	\$10.40	\$5.47	\$0.00	\$0.08	\$0.00	\$0.00	\$0.00			\$15.95	\$21.15
4th 6 Months	67.95	\$10.87	\$5.47	\$0.79	\$0.08	\$0.00	\$0.00	\$0.00			\$17.21	\$22.65
5th 6 months	70.95	\$11.35	\$5.47	\$0.83	\$0.08	\$0.00	\$0.00	\$0.00			\$17.73	\$23.41
6th 6 Months	73.90	\$11.82	\$5.47	\$0.86	\$0.08	\$0.00	\$0.00	\$0.00			\$18.23	\$24.15
7th 6 Months	76.90	\$12.30	\$5.47	\$0.90	\$0.08	\$0.00	\$0.00	\$0.00			\$18.75	\$24.91
8th 6 Months	79.85	\$12.78	\$5.47	\$0.93	\$0.08	\$0.00	\$0.00	\$0.00			\$19.26	\$25.64
9th 6 months	82.80	\$13.25	\$5.47	\$1.00	\$0.08	\$0.00	\$0.00	\$0.00			\$19.80	\$26.42

Special Calculation Note : Helper H&W after 90 days probationary period

Ratio :

Jurisdiction (* denotes special

Appendix B

1 Installer to 1 Trainee or 1 Helper

jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :**Details :**

Office systems is defined as modular systems with demountable units such as desks, partitions and shelving. All work in connection with the assembly, reconfiguration and repair of all work in the office system field.

INSTALLER: is defined as a qualified office systems mechanic capable of laying out, estimating and installing various office system manufactured products.

INSTALL TRAINEE: is defined as a person training in the estimating, layout and installation in all facets of the office systems industry. An installer trainee will work to assist an installer or lead installer in all installations. He is NOT permitted to work without the assistance of lead installer

INSTALL HELPER: is defined as a person who assists in the delivery, staging and clean up of related office system work. He is NOT to be involved with the installation or layout of work related to office systems.

Receiving, unloading, unpacking, & removal of rubbish shall be done by install helpers.

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter Floorlayer NE Zone 2B

Change # : LCN01-2018fbLocNEZone2B

Craft : Carpenter Effective Date : 09/19/2018 Last Posted : 09/19/2018

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Carpenter Floorlayer	\$26.20		\$6.77	\$9.37	\$0.47	\$0.00	\$0.57	\$0.00	\$0.00	\$0.00	\$43.38	\$56.48
Apprentice	Percent											
1st 3 Months	60.00	\$15.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.72	\$23.58
2nd 3 Months	60.00	\$15.72	\$6.77	\$0.00	\$0.47	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.96	\$30.82
2nd 6 Months is 1st year	60.00	\$15.72	\$6.77	\$0.00	\$0.47	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.96	\$30.82
3rd 6 Months	60.00	\$15.72	\$6.77	\$0.00	\$0.47	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.96	\$30.82
4th 6 Months is 2nd year	60.00	\$15.72	\$6.77	\$0.00	\$0.47	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.96	\$30.82
5th 6 Months	70.00	\$18.34	\$6.77	\$6.56	\$0.47	\$0.00	\$0.40	\$0.00	\$0.00	\$0.00	\$32.54	\$41.71
6th 6 Months is 3rd year	75.00	\$19.65	\$6.77	\$7.03	\$0.47	\$0.00	\$0.43	\$0.00	\$0.00	\$0.00	\$34.35	\$44.17
7th 6 Months	80.00	\$20.96	\$6.77	\$7.50	\$0.47	\$0.00	\$0.46	\$0.00	\$0.00	\$0.00	\$36.16	\$46.64
8th 6 Months is 4th year	85.00	\$22.27	\$6.77	\$7.96	\$0.47	\$0.00	\$0.48	\$0.00	\$0.00	\$0.00	\$37.95	\$49.08

Special Calculation Note :

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :



MUSKINGUM, NOBLE, OTTAWA, PAULDING,
PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE,
PUTNAM, RICHLAND, ROSS, SANDUSKY,
SCIOTO, SENECA, SHELBY, STARK, SUMMIT,
TRUMBULL, TUSCARAWAS, UNION, VAN WERT,
VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :

(A) Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site Heavy Construction, Airport Construction Or Railroad Construction Work.

(B) Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control,Sewer Plant, Waste Plant, & Water Treatment Facilities, Construction.

MEIGS, MERCER, MIAMI, MONROE,
MONTGOMERY, MORGAN, MORROW,
MUSKINGUM, NOBLE, OTTAWA, PAULDING,
PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE,
PUTNAM, RICHLAND, ROSS, SANDUSKY,
SCIOTO, SENECA, SHELBY, STARK, SUMMIT,
TRUMBULL, TUSCARAWAS, UNION, VAN WERT,
VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :

(A) Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site Heavy Construction, Airport Construction Or Railroad Construction Work.

(B) Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control,Sewer Plant, Waste Plant, & Water Treatment Facilities, Construction.

Appendix B

Finishers when applying colorshake shall be paid an additional \$2.00 per DAY.
Swing Scaffolds up to 50 feet shall be paid \$0.25 above the Journeymen rate.
Swing Scaffolds over 50 feet shall be paid \$0.35 above the Journeymen rate.

Prevailing Wage Rate Skilled Crafts

Name of Union: Electrical Local 540 Inside

Change # : LCN01-2018fbLoc540in

Craft : Electrical Effective Date : 01/10/2018 Last Posted : 01/10/2018

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Electrician	\$31.49		\$6.00	\$8.20	\$0.97	\$3.15	\$3.51	\$1.04	\$0.00	\$0.00	\$54.36	\$70.11
Apprentice	Percent											
1st 1000 hrs	40.00	\$12.60	\$6.00	\$0.00	\$0.47	\$0.00	\$0.00	\$0.38	\$0.00	\$0.00	\$19.45	\$25.74
2nd 1000 hrs	45.00	\$14.17	\$6.00	\$0.00	\$0.51	\$0.00	\$0.00	\$0.43	\$0.00	\$0.00	\$21.11	\$28.20
3rd 1500 hrs	50.00	\$15.75	\$6.00	\$1.64	\$0.57	\$1.26	\$0.70	\$0.51	\$0.00	\$0.00	\$26.42	\$34.30
4th 1500 hrs	60.00	\$18.89	\$6.00	\$3.28	\$0.65	\$1.51	\$1.40	\$0.61	\$0.00	\$0.00	\$32.34	\$41.79
5th 1500 hrs	70.00	\$22.04	\$6.00	\$4.92	\$0.73	\$1.76	\$2.11	\$0.71	\$0.00	\$0.00	\$38.27	\$49.29
6th 1500 hrs	80.00	\$25.19	\$6.00	\$6.56	\$0.80	\$2.02	\$2.81	\$0.82	\$0.00	\$0.00	\$44.20	\$56.80

Special Calculation Note : OTHER = (NEBF) National Electrical Benefit Fund. Vacation contribution is equal to 8% of the gross weekly wages.

Ratio :

The first person assigned to any job site shall be a Journeyman Wireman. Ratio thereafter:

- 1-3 Journeymen to 2 Apprentices
- 4 to 6 Journeymen up to 4 Apprentices
- 7 to 9 Journeymen up to 6 Apprentices

Jurisdiction (* denotes special jurisdictional note) :

CARROLL*, COLUMBIANA*, HOLMES, MAHONING*, STARK, TUSCARAWAS*, WAYNE*

Special Jurisdictional Note : Carroll County: North half including; Fox, Harrison, Rose and Washington Townships.
 Columbiana County: Knox Township only.
 Mahoning County: Smith Township only.
 Tuscarawas County: That portion North of Auburn, Clay, Rush and York Townships.
 Wayne County: That portion south of Baughman, Chester, Green, Wayne and Wooster Townships.

Details :

Tuscarawas County: That portion North of Auburn, Clay, Rush and York Townships.

Wayne County: That portion south of Baughman, Chester, Green, Wayne and Wooster Townships.

The scope of work for the light commercial agreement shall apply to the following small medical clinics, stand-alone doctor and dentist offices with up to 600 amp service (not attached to a hospital), gas stations/convenience stores, fast food restaurants and franchised chain restaurants including independent bars and taverns, places of worship, funeral homes, nursing homes, assisted living facilities and day-care facilities under 15,000 sq ft, small office, retail/wholesale facilities under 15,000 sq ft with less than 10 units attached, storage units, car washes, express hotels and motels (4 stories or less) without conference or restaurants facilities, residential units (subject to Davis Bacon Rates) small stand-alone manufacturing facilities when free standing and not part of a larger facility (less than 15,000 sq ft) solar projects (500 panels or less) unless other wise covered under this agreement, lighting retrofits (when not associated with remodels involving branch re-circuiting) Lighting retrofits shall be defined as the changing of lamps and ballasts in existing light fixtures and shall also include the one for one replacement of existing fixtures.

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Electrical Local 540 Voice Data Video

Change # : LCN03-2018fbLoc540VDV

Craft : Voice Data Video Effective Date : 10/03/2018 Last Posted : 10/03/2018

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Electrical Installer Technician	\$21.65		\$6.00	\$4.59	\$0.54	\$2.16	\$1.63	\$0.71	\$0.00	\$0.00	\$37.28	\$48.11
Cable Puller	\$10.83		\$6.00	\$4.59	\$0.27	\$1.08	\$1.63	\$0.36	\$0.00	\$0.00	\$24.76	\$30.17
Apprentice	Percent											
1st period	55.00	\$11.91	\$6.00	\$0.00	\$0.27	\$0.00	\$0.00	\$0.36	\$0.00	\$0.00	\$18.54	\$24.49
2nd period	65.00	\$14.07	\$6.00	\$0.00	\$0.34	\$1.13	\$0.00	\$0.46	\$0.00	\$0.00	\$22.00	\$29.04
3rd period	75.00	\$16.24	\$6.00	\$4.59	\$0.39	\$1.30	\$1.63	\$0.53	\$0.00	\$0.00	\$30.68	\$38.80
4th period	80.00	\$17.32	\$6.00	\$4.59	\$0.42	\$1.39	\$1.63	\$0.56	\$0.00	\$0.00	\$31.91	\$40.57
5th period	85.00	\$18.40	\$6.00	\$4.59	\$0.45	\$1.47	\$1.63	\$0.60	\$0.00	\$0.00	\$33.14	\$42.34
6th period	90.00	\$19.48	\$6.00	\$4.59	\$0.47	\$1.56	\$1.63	\$0.63	\$0.00	\$0.00	\$34.37	\$44.11

Special Calculation Note : OTHER = (NEBF) National Electrical Benefit Fund.

VACATION PAY - For Journeymen is 10% of wages and 8% for Apprentices.

Ratio :

1-3 Journeyman to 2 Apprentice
4-6 Journeyman to 4 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL*, COLUMBIANA*, HOLMES, MAHONING*, STARK, TUSCARAWAS*, WAYNE*

** Exception - When fire alarm falls within the scope of this addendum, Cable Pullers can be used to aid in test and be the 2nd Teledata employee on the job

Special Jurisdictional Note : Carroll County includes the following townships: North half including Fox, Harrison, Rose and Washington. Tuscarawas County includes the following townships: The portion North of Auburn, Clay, Rush and York. Wayne County includes the following townships: The portion South of Baughman, Chester, Green, and Wayne. Columbiana County includes Knox township. Mahoning County includes Smith township.

Details :

CABLE PULLERS - are for the installation of cable from one termination point to another.

The following work is EXCLUDED from the Teledata Technician work scope:

- * - Installation of computer systems in industrial applications such as assembly lines, robotics, computer controller manufacturing systems.
- * - Installation of conduit and/ or raceways shall be installed by Inside Wireman . On sites where there is no Inside Wireman employed, the Teledata Technician may install raceway, or conduit not greater than 10 feet.
- * - Fire Alarm work on all new construction sites or wherever the fire alarm system is installed in conduit.
- * - All HVAC control work.

Prevailing Wage Rate Skilled Crafts

Name of Union: Electrical Local 71 High Tension Pipe Type Cable

Change # : LCN01-2018fbLoc7

Craft : Lineman Effective Date : 03/28/2018 Last Posted : 03/28/2018

Classification	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Electrical Lineman	\$42.32	\$5.75	\$1.27	\$0.42	\$0.00	\$9.31	\$0.35	\$0.00	\$0.00	\$59.42	\$80.58
Certified Lineman Welder	\$42.32	\$5.75	\$1.27	\$0.42	\$0.00	\$9.31	\$0.35	\$0.00	\$0.00	\$59.42	\$80.58
Certified Cable Splicer	\$42.32	\$5.75	\$1.27	\$0.42	\$0.00	\$9.31	\$0.35	\$0.00	\$0.00	\$59.42	\$80.58
Operator A	\$37.98	\$5.75	\$1.14	\$0.38	\$0.00	\$8.36	\$0.35	\$0.00	\$0.00	\$53.96	\$72.95
Operator B	\$33.67	\$5.75	\$1.01	\$0.34	\$0.00	\$7.41	\$0.35	\$0.00	\$0.00	\$48.53	\$65.36
Operator C	\$27.18	\$5.75	\$0.82	\$0.27	\$0.00	\$5.98	\$0.35	\$0.00	\$0.00	\$40.35	\$53.94
Groundman 0-12 months Exp	\$21.16	\$5.75	\$0.63	\$0.21	\$0.00	\$4.66	\$0.35	\$0.00	\$0.00	\$32.76	\$43.34
Groundman 0-12 months Exp w/CDL	\$23.28	\$5.75	\$0.70	\$0.23	\$0.00	\$5.12	\$0.35	\$0.00	\$0.00	\$35.43	\$47.07
Groundman 1 yr or more	\$23.28	\$5.75	\$0.70	\$0.23	\$0.00	\$5.12	\$0.35	\$0.00	\$0.00	\$35.43	\$47.07
Groundman 1 yr or more w/CDL	\$27.51	\$5.75	\$0.83	\$0.28	\$0.00	\$6.05	\$0.35	\$0.00	\$0.00	\$40.77	\$54.53
Equipment Mechanic A	\$33.67	\$5.75	\$1.01	\$0.34	\$0.00	\$7.41	\$0.35	\$0.00	\$0.00	\$48.53	\$65.36
Equipment Mechanic B	\$30.42	\$5.75	\$0.91	\$0.30	\$0.00	\$6.69	\$0.35	\$0.00	\$0.00	\$44.42	\$59.63
Equipment Mechanic C	\$27.18	\$5.75	\$0.82	\$0.27	\$0.00	\$5.98	\$0.35	\$0.00	\$0.00	\$40.35	\$53.94
X-Ray Technician	\$42.32	\$5.75	\$1.27	\$0.42	\$0.00	\$9.31	\$0.35	\$0.00	\$0.00	\$59.42	\$80.58

Apprentice	Percent											
	60.00	\$25.39	\$5.75	\$0.76	\$0.25	\$0.00	\$5.59	\$0.35	\$0.00	\$0.00	\$38.09	\$50.79

hrs												
2nd 1000 hrs	65.00	\$27.51	\$5.75	\$0.83	\$0.28	\$0.00	\$6.05	\$0.35	\$0.00	\$0.00	\$40.77	\$54.52
3rd 1000 hrs	70.00	\$29.62	\$5.75	\$0.89	\$0.30	\$0.00	\$6.52	\$0.35	\$0.00	\$0.00	\$43.43	\$58.25
4th 1000 hrs	75.00	\$31.74	\$5.75	\$0.95	\$0.32	\$0.00	\$6.98	\$0.35	\$0.00	\$0.00	\$46.09	\$61.96
5th 1000 hrs	80.00	\$33.86	\$5.75	\$1.02	\$0.34	\$0.00	\$7.45	\$0.35	\$0.00	\$0.00	\$48.77	\$65.69
6th 1000 hrs	85.00	\$35.97	\$5.75	\$1.08	\$0.36	\$0.00	\$7.91	\$0.35	\$0.00	\$0.00	\$51.42	\$69.41
7th 1000 hrs	90.00	\$38.09	\$5.75	\$1.14	\$0.38	\$0.00	\$8.38	\$0.35	\$0.00	\$0.00	\$54.09	\$73.13

Special Calculation Note : Other is Health Retirement Account

Operator "A"

John Henry Rock Drill, D-6 (or equivalent) and above, Trackhoe Digger, (320 Track excavator), Cranes (greater then 25 tons and less than 45 tons).

Operator "B"

Cranes (greater than 6 tons and up to 25 tons), Backhoes, Road Tractor, Dozer up to D-5, Pressure Digger- wheeled or tracked, all Tension wire Stringing equipment.

Operator "C"

Trench, Backhoe, Riding type vibratory Compactor, Ground Rod Driver, Boom Truck (6 ton & below), Skid Steer Loaders, Material Handler.

*All Operators of cranes 45 ton or larger shall be paid the journeyman rate of pay. \$0.30 is for Health Retirement Account.

Ratio :

1 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, RICHLAND, ROSS, SCIOTO, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON, WARREN, WASHINGTON, WAYNE

Appendix B

Special Jurisdictional Note :

Details :

Heli - Arc Welding will be paid \$.30 above Journeyman rate. Additional compensation of 10% over the Journeyman Lineman and Journeyman Technician for performing work on structures outside of buildings such as water towers, smoke stacks, radio and television towers, more than 75' above the ground.

Prevailing Wage Rate Skilled Crafts

Name of Union: Electrical Local 71 Outside Utility Power

Change # : LCN01-2018fbLoc7

Craft : Lineman Effective Date : 03/28/2018 Last Posted : 03/28/2018

Classification	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate	
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)			
Electrical Lineman	\$40.12	\$5.75	\$1.20	\$0.40	\$0.00	\$8.83	\$0.35	\$0.00	\$0.00	\$56.65	\$76.71	
Substation Technician	\$40.12	\$5.75	\$1.20	\$0.40	\$0.00	\$8.83	\$0.35	\$0.00	\$0.00	\$56.65	\$76.71	
Cable Splicer	\$41.99	\$5.75	\$1.26	\$0.42	\$0.00	\$9.24	\$0.35	\$0.00	\$0.00	\$59.01	\$80.00	
Operator A	\$36.01	\$5.75	\$1.08	\$0.36	\$0.00	\$7.92	\$0.35	\$0.00	\$0.00	\$51.47	\$69.47	
Operator B	\$31.90	\$5.75	\$0.96	\$0.32	\$0.00	\$7.02	\$0.35	\$0.00	\$0.00	\$46.30	\$62.25	
Operator C	\$25.73	\$5.75	\$0.77	\$0.26	\$0.00	\$5.66	\$0.35	\$0.00	\$0.00	\$38.52	\$51.39	
Groundman 0-12 months Exp	\$20.06	\$5.75	\$0.60	\$0.20	\$0.00	\$4.41	\$0.35	\$0.00	\$0.00	\$31.37	\$41.40	
Groundman 0-12 months Exp w/CDL	\$22.07	\$5.75	\$0.66	\$0.22	\$0.00	\$4.86	\$0.35	\$0.00	\$0.00	\$33.91	\$44.95	
Groundman 1 yr or more	\$22.07	\$5.75	\$0.66	\$0.22	\$0.00	\$4.86	\$0.35	\$0.00	\$0.00	\$33.91	\$44.95	
Groundman 1 yr or more w/CDL	\$26.08	\$5.75	\$0.78	\$0.26	\$0.00	\$5.74	\$0.35	\$0.00	\$0.00	\$38.96	\$52.00	
Equipment Mechanic A	\$31.90	\$5.75	\$0.96	\$0.32	\$0.00	\$7.02	\$0.35	\$0.00	\$0.00	\$46.30	\$62.25	
Equipment Mechanic B	\$28.83	\$5.75	\$0.86	\$0.29	\$0.00	\$6.34	\$0.35	\$0.00	\$0.00	\$42.42	\$56.84	
Equipment Mechanic C	\$25.73	\$5.75	\$0.77	\$0.26	\$0.00	\$5.66	\$0.35	\$0.00	\$0.00	\$38.52	\$51.39	
Line Truck w/uuger	\$28.39	\$5.75	\$0.85	\$0.28	\$0.00	\$6.25	\$0.35	\$0.00	\$0.00	\$41.87	\$56.07	
Apprentice	Percent											
1st 1000 hrs	60.00	\$24.07	\$5.75	\$0.72	\$0.24	\$0.00	\$5.30	\$0.35	\$0.00	\$0.00	\$36.43	\$48.47
2nd 1000 hrs	65.00	\$26.08	\$5.75	\$0.78	\$0.26	\$0.00	\$5.74	\$0.35	\$0.00	\$0.00	\$38.96	\$52.00
3rd 1000 hrs	70.00	\$28.08	\$5.75	\$0.84	\$0.28	\$0.00	\$6.18	\$0.35	\$0.00	\$0.00	\$41.48	\$55.53
4th 1000 hrs	75.00	\$30.09	\$5.75	\$0.90	\$0.30	\$0.00	\$6.62	\$0.35	\$0.00	\$0.00	\$44.01	\$59.05
	80.00	\$32.10	\$5.75	\$0.96	\$0.32	\$0.00	\$7.06	\$0.35	\$0.00	\$0.00	\$46.54	\$62.58

Appendix B Hrs												
6th 1000 hrs	85.00	\$34.10	\$5.75	\$1.02	\$0.34	\$0.00	\$7.50	\$0.35	\$0.00	\$0.00	\$49.06	\$66.11
7th 1000 hrs	90.00	\$36.11	\$5.75	\$1.08	\$0.36	\$0.00	\$7.94	\$0.35	\$0.00	\$0.00	\$51.59	\$69.64

Special Calculation Note : Other is Health Retirement Account

Operator "A"

John Henry Rock Drill, D-6 (or equivalent) and above, Trackhoe Digger, (320 Track excavator), Cranes (greater than 25 tons and less than 45 tons).

Operator "B"

Cranes (greater than 6 tons and up to 25 tons), Backhoes, Road Tractor, Dozer up to D-5, Pressure Digger-wheeled or tracked, all Tension wire Stringing equipment.

Operator "C"

Trench, Backhoe, Riding type vibratory Compactor, Ground Rod Driver, Boom Truck (6 ton & below), Skid Steer Loaders, Material Handler.

Ratio :

(1) Journeyman Lineman to (1) Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, RICHLAND, ROSS, SCIOTO, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note : 0.30 is for Health Retirement Account.

Details :

Heli - Arc Welding will be paid \$.30 above Journeyman rate. Additional compensation of 10% over the Journeyman Lineman and Journeyman Technician for performing work on structures outside of buildings such as water towers, smoke stacks, radio and television towers, more than 75' above the ground.

Prevailing Wage Rate Skilled Crafts

Name of Union: Electrical Local 71 Outside (North Central Ohio)

Change # : LCN01-2018fbLoc71CentralOhio

Craft : Lineman Effective Date : 03/21/2018 Last Posted : 03/21/2018

Classification	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Electrical Lineman	\$37.36	\$5.75	\$1.12	\$0.37	\$0.00	\$6.72	\$0.06	\$0.00	\$0.00	\$51.38	\$70.06
Traffic Signal & Lighting Journeyman	\$35.93	\$5.75	\$1.08	\$0.36	\$0.00	\$6.47	\$0.06	\$0.00	\$0.00	\$49.65	\$67.61
Equipment Operator	\$32.84	\$5.75	\$0.99	\$0.33	\$0.00	\$5.91	\$0.06	\$0.00	\$0.00	\$45.88	\$62.30
Groundman 0-12 months (W/O CDL)	\$19.98	\$5.75	\$0.60	\$0.20	\$0.00	\$3.60	\$0.06	\$0.00	\$0.00	\$30.19	\$40.18
Groundman 0-12 months (W/CDL) plus	\$21.83	\$5.75	\$0.65	\$0.22	\$0.00	\$3.93	\$0.06	\$0.00	\$0.00	\$32.44	\$43.35
Groundsman greater than 1 Year (W/CDL)	\$23.65	\$5.75	\$0.71	\$0.24	\$0.00	\$4.26	\$0.06	\$0.00	\$0.00	\$34.67	\$46.50
Traffic Signal Apprentices											
1st 1,000 hours	\$21.56	\$5.75	\$0.65	\$0.22	\$0.00	\$3.88	\$0.06	\$0.00	\$0.00	\$32.12	\$42.90
2nd 1,000 hours	\$23.35	\$5.75	\$0.70	\$0.23	\$0.00	\$4.20	\$0.06	\$0.00	\$0.00	\$34.29	\$45.97
3rd 1,000 hours	\$25.15	\$5.75	\$0.75	\$0.25	\$0.00	\$4.53	\$0.06	\$0.00	\$0.00	\$36.49	\$49.07
4th 1,000 hours	\$26.95	\$5.75	\$0.81	\$0.27	\$0.00	\$4.85	\$0.06	\$0.00	\$0.00	\$38.69	\$52.17
5th 1,000 hours	\$28.74	\$5.75	\$0.86	\$0.29	\$0.00	\$5.17	\$0.06	\$0.00	\$0.00	\$40.87	\$55.24
6th 1,000 hours	\$32.34	\$5.75	\$0.97	\$0.32	\$0.00	\$5.82	\$0.06	\$0.00	\$0.00	\$45.26	\$61.43
Apprentice Lineman	Percent										
1st 1,000 Hours	60.00	\$22.42	\$5.75	\$0.67	\$0.22	\$4.04	\$0.06	\$0.00	\$0.00	\$33.16	\$44.36

2nd 1,000 Hours	65.00	\$24.28	\$5.75	\$0.73	\$0.24	\$0.00	\$4.37	\$0.06	\$0.00	\$0.00	\$35.43	\$47.58
3rd 1,000 Hours	70.00	\$26.15	\$5.75	\$0.78	\$0.26	\$0.00	\$4.71	\$0.06	\$0.00	\$0.00	\$37.71	\$50.79
4th 1,000 Hours	75.00	\$28.02	\$5.75	\$0.84	\$0.28	\$0.00	\$5.04	\$0.06	\$0.00	\$0.00	\$39.99	\$54.00
5th 1,000 Hours	80.00	\$29.89	\$5.75	\$0.90	\$0.30	\$0.00	\$5.38	\$0.06	\$0.00	\$0.00	\$42.28	\$57.22
6th 1,000 Hours	85.00	\$31.76	\$5.75	\$0.95	\$0.32	\$0.00	\$5.72	\$0.06	\$0.00	\$0.00	\$44.56	\$60.43
7th 1,000 Hours	90.00	\$33.62	\$5.75	\$1.01	\$0.34	\$0.00	\$6.05	\$0.06	\$0.00	\$0.00	\$46.83	\$63.65

Special Calculation Note : Other is Safety & Education Fund.

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

BELMONT, CARROLL, HARRISON, HOLMES, JEFFERSON, MEDINA, PORTAGE, STARK, SUMMIT, WAYNE

Special Jurisdictional Note :

Details :

A groundman when directed shall assist a Journeyman in the performance of his/her work on the ground, including the use of hand tools. A Groundman under no circumstances shall climb poles, towers, ladders, or work from an elevated platform or bucket truck.

No more than three (3) Groundmen shall work alone. Jobs with more than three Groundmen shall be supervised by a Groundcrew Foreman, Journeyman Lineman, Journeyman Traffic Signal Technician or an Equipment Operator.

Scope of Work: installation and maintenance of highway and street lighting, highway and street sign lighting, electronic message boards and traffic control systems, camera systems, traffic signal work, substation and line construction including overhead and underground projects for private and industrial work as in accordance with the IBEW Constitution. This Agreement includes the operation of all tools and equipment necessary for the installation of the above projects.

Journeyman Technician I: Must know all aspects of telephone and cable work. This is to include aerial, underground, and manhole work. Must know how to climb and run bucket. Must have all the tools required to perform these tasks. Must be able to be responsible for the safety of the crew at all times. Must also have CDL license and have at least 5 years experience.

Installer/Repairman: Perform tasks of repairing, installing, and testing phone and CATV services.

Technician II: Have at least three years of telephone and CATV experience. Must have the knowledge of underground, aerial, and manhole work. Must be able to climb and operate bucket. Must have CDL. Must have all tools needed to perform these tasks.

Equipment Operator I: Able to operate a digger derrick or bucket truck. Have at least 5 years of experience and must have a valid CDL license.

Equipment Operator II: Able to operate a digger derrick or bucket truck. Have at least 3 years of experience and must have a valid CDL license.

Groundman W/CDL: Must have a valid CDL license and be able to perform tasks such as: climbing poles, pulling downguys, making up material, and getting appropriate tools for the job. Must have at least 5 year's experience.

Groundman: Perform tasks such as: climbing poles, pulling downguys, making up material, and getting appropriate tools for the job. Experience 0-5 years.

Appendix B

Details :

Vacation 6%/under 5 years based on regular hourly rate for all hours worked. 8%/over 5 years based on regular hourly rate for all hours worked.

Prevailing Wage Rate Skilled Crafts

Name of Union: Glazier Local 1162

Change # : LCN02-2017fbLoc1162

Craft : Glazier Effective Date : 11/08/2017 Last Posted : 11/08/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Glazier	\$25.00		\$6.48	\$5.76	\$0.30	\$0.00	\$0.00	\$0.25	\$0.00	\$0.00	\$37.79	\$50.29
Apprentice	Percent											
1st 6 months	50.00	\$12.50	\$6.48	\$5.76	\$0.30	\$0.00	\$0.00	\$0.25	\$0.00	\$0.00	\$25.29	\$31.54
2nd 6 months	55.00	\$13.75	\$6.48	\$5.76	\$0.30	\$0.00	\$0.00	\$0.25	\$0.00	\$0.00	\$26.54	\$33.42
3rd 6 months	60.00	\$15.00	\$6.48	\$5.76	\$0.30	\$0.00	\$0.00	\$0.25	\$0.00	\$0.00	\$27.79	\$35.29
4th 6 months	65.00	\$16.25	\$6.48	\$5.76	\$0.30	\$0.00	\$0.00	\$0.25	\$0.00	\$0.00	\$29.04	\$37.17
5th 6 months	70.00	\$17.50	\$6.48	\$5.76	\$0.30	\$0.00	\$0.00	\$0.25	\$0.00	\$0.00	\$30.29	\$39.04
6th 6 months	75.00	\$18.75	\$6.48	\$5.76	\$0.30	\$0.00	\$0.00	\$0.25	\$0.00	\$0.00	\$31.54	\$40.92
7th 6 months	80.00	\$20.00	\$6.48	\$5.76	\$0.30	\$0.00	\$0.00	\$0.25	\$0.00	\$0.00	\$32.79	\$42.79
8th 6 months	90.00	\$22.50	\$6.48	\$5.76	\$0.30	\$0.00	\$0.00	\$0.25	\$0.00	\$0.00	\$35.29	\$46.54

Special Calculation Note : OTHER IS : Supplemental Unemployment Benefits

Ratio :

1 Journeyman to 1 Apprentice
3 Journeymen to 1 Apprentice Thereafter

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COSHOCTON, HOLMES, MEDINA,
PORTAGE, RICHLAND, STARK, SUMMIT, TUSCARAWAS,
WAYNE

Special Jurisdictional Note :

Details :

Add \$1.25 per hour for High Pay which is all work that requires the employee be supported by equipment which hangs or suspends from the roof of a building or structure including all repelling .

Appendix B
adjusted higher on a job-to job basis with the approval of
the business manager and/or business agent.

Special Jurisdictional Note : The jurisdictional line between Local 17 and Local 550 is determined as follows: All territory North of Old Route 224 line to be within the jurisdiction of Local 17. All territory South of Old Route 224 line is to be the jurisdiction of Local 550, except for everything within the City limits of Barberton which shall be under the jurisdiction of Local 17.

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Ironworker Local 550 Glass & Curtain Wall

Change # : LCN01-2017fbLoc550

Craft : Ironworker Effective Date : 07/01/2017 Last Posted : 06/28/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Ironworker Glass & Curtain Wall	\$22.00		\$7.00	\$7.47	\$0.09	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$36.89	\$47.89
Apprentice	Percent											
1st 6 months	60.00	\$13.20	\$7.00	\$7.47	\$0.09	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$28.09	\$34.69
2nd 6 months	65.00	\$14.30	\$7.00	\$7.47	\$0.09	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$29.19	\$36.34
3rd 6 months	70.00	\$15.40	\$7.00	\$7.47	\$0.09	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$30.29	\$37.99
4th 6 months	75.00	\$16.50	\$7.00	\$7.47	\$0.09	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$31.39	\$39.64
5th 6 months	80.00	\$17.60	\$7.00	\$7.47	\$0.09	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$32.49	\$41.29
6th 6 months	85.00	\$18.70	\$7.00	\$7.47	\$0.09	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$33.59	\$42.94
7th 6 months	90.00	\$19.80	\$7.00	\$7.47	\$0.09	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$34.69	\$44.59
8th 6 months	95.00	\$20.90	\$7.00	\$7.47	\$0.09	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$35.79	\$46.24

Special Calculation Note :

Ratio :

1 Apprentice to 1 Journeymen

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COLUMBIANA*,
 COSHOCTON, HOLMES, HURON*, MAHONING*,
 MEDINA*, PORTAGE*, RICHLAND, STARK,
 SUMMIT*, TUSCARAWAS, WAYNE

Appendix B

Special Jurisdictional Note : The jurisdictional line between Locals 17 and 550 is determined as follows: All territory North of Old Route 224 line is to be within the jurisdiction of Local 17.
All territory South of Old Route 224 line is to be the jurisdiction of Local 550, except for everything within the City limits of Barberton which shall be under the jurisdiction of Local 17.

Details :

TRUMBULL, WOOD

Special Jurisdictional Note : Hod Carriers and Common Laborers - Heavy, Highway, Sewer, Waterworks, Utility, Airport, Railroad, Industrial and Building Site, Sewer Plant, Waste Water Treatment Facilities Construction

Details :

Group 1

Laborer (Construction); Plant Laborer or Yardman, Right-of-way Laborer, Landscape Laborer, Highway Lighting Worker, Signalization Worker, (Swimming) Pool Construction Laborer, Utility Man, *Bridge Man, Handyman, Joint Setter, Flagperson, Carpenter Helper, Waterproofing Laborer, Slurry Seal, Seal Coating, Surface Treatment or Road Mix Laborer, Riprap Laborer & Grouter, Asphalt Laborer, Dump Man (batch trucks), Guardrail & Fence Installer, Mesh Handler & Placer, Concrete Curing Applicator, Scaffold Erector, Sign Installer, Hazardous Waste (level D), Diver Helper, Zone Person and Traffic Control.

*Bridge Man will perform work as per the October 31, 1949, memorandum on concrete forms, by and between the United Brotherhood of Carpenters and Joiners of America and the Laborers' International Union of North America, which states in; "the moving, cleaning, oiling and carrying to the next point of erection, and the stripping of forms which are not to be re-used, and forms on all flat arch work shall be done by members of the Laborers' International Union of North America."

Group 2

Asphalt Raker, Screwman or Paver, Concrete Puddler, Kettle Man (pipeline), All Machine-Driven Tools (Gas, Electric, Air), Mason Tender, Brick Paver, Mortar Mixer, Skid Steer, Sheeting & Shoring Person, Surface Grinder Person, Screedperson, Water Blast, Hand Held Wand, Power Buggy or Power Wheelbarrow, Paint Striper, Plastic fusing Machine Operator, Rodding Machine Operator, Pug Mill Operator, Operator of All Vacuum Devices Wet or Dry, Handling of all Pumps 4 inches and under (gas, air or electric), Diver, Form Setter, Bottom Person, Welder Helper (pipeline), Concrete Saw Person, Cutting with Burning Torch, Pipe Layer, Hand Spiker (railroad), Underground Person (working in sewer and waterline, cleaning, repairing and reconditioning). Tunnel Laborer (without air), Caisson, Cofferdam (below 25 feet deep), Air Track and Wagon Drill, Sandblaster Nozzle Person, Hazardous Waste (level B), ***Lead Abatement, Hazardous Waste (level C)

***Includes the erecting of structures for the removal, including the encapsulation and containment of Lead abatement process.

Group 3

Blast and Powder Person, Muckers will be defined as shovel men working directly with the miners, Wrencher (mechanical joints & utility pipeline), Yarner, Top Lander, Hazardous Waste (level A), Concrete Specialist, Curb Setter and Cutter, Grade Checker, Concrete Crew in Tunnels. Utility pipeline Tappers, Waterline, Caulker, Signal Person will receive the rate equal to the rate paid the Laborer classification for which the Laborer is signaling.

Appendix B

Group 4

Miner, Welder, Gunitite Nozzle Person

A.) The Watchperson shall be responsible to patrol and maintain a safe traffic zone including but not limited to barrels, cones, signs, arrow boards, message boards etc.

The responsibility of a watchperson is to see that the equipment, job and office trailer etc. are secure.

Appendix B

Group 2

Bottom Man, Scaffold Builder, Tunnel laborer, Pipe Layer, Air and Power Driven Tools, Burner on Demolition Work, Swinging Scaffold, Mucker, Caisson Worker, Cofferdam Worker, Powder Men and Dynamite Blaster, Creosote Worker, Form Setter, Plasterer Tender, Hod Carrier Laser Beam Set-up Man, All confined space work, furnaces, pickel tubs, acid-pits, and Hazardous Waste Level (C)

Group 3

Mason Tender, Mortar Mixer, Stonemason Tender, skid-loader, Hazardous Waste Level (B)

Group 4

Gunnite Operator, Hazardous Waste Level (A)

Group 5

Watchman

For every (3) Operating Engineer Journeymen employed by the company there may be employed (1) Registered Apprentice or trainee Engineer through the referral when they are available. An apprentice, while employed as part of a crew per Article VIII, paragraph 77, will not be subject to the apprenticeship ratios in this collective bargaining agreement

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WYANDOT

Special Jurisdictional Note :

Details :

**Apprentices will receive a 10% increase on top of the percentages listed above provided they are operating mobile equipment. Mechanic Trainees will receive 10% increase if required to have CDL

Class 1 - Barrier Moving Machine; Boiler Operators or Compressor Operators, when compressor or boiler is mounted on crane (Piggyback Operation); Boom Trucks (all types); Cableways Cherry Pickers; Combination - Concrete Mixers & Towers; All Concrete Pumps with Booms; Cranes (all types) Derricks (all types); Draglines Dredges (dipper, clam or suction) 3-man crew; Elevating Graders or Euclid Loaders; Floating Equipment; Gradalls; Helicopter Operators; hoisting building materials; Helicopter Winch Operators, Hoisting building materials; Hoes (All types); Hoists (with two or more drums in use); Hydraulic Gantry (lift system); Laser Finishing Machines; Lift Slab or Panel Jack Operators; Locomotives (all types); Maintenance Engineers (Mechanic and/or Welder); Mixers, paving (multiple drum); Mobile Concrete Pumps, with booms, Panelboards, (all types on site); Pile Drivers; Power Shovels; Prentice Loader; Rail Tamper (with automatic lifting and aligning device); Rotary Drills (all used on caissons for foundations and sub-structure work; Side Booms; Slip Form Pavers; Straddle Carriers (Building Construction on site); Tug Boats. Horizontal Directional Drill, Rough Terrain Fork-lift with Winch/Hoist, Laser Screed, and Like equipment; Compact Cranes, track or rubber over 4,000 pound capacity, self-erecting cranes: stationary, track or truck (all configurations) bucket trench machines (over 24 " wide).

Class 2 - Asphalt Pavers; Bobcat-type and/or skid steer loader with hoe attachment greater than 7000 lbs. Bulldozers; CMI type Equipment; Endloaders; Hydro Milling Machine; Kolman-type Loaders (Dirt Loading); Lead Greasemen; Mucking Machines; Pettibone-Rail Equipment; Power Graders; Power

Scoops; Power Scrapers; Push Cats; Vermeer Type Concrete Saw; All rotomills, grinders & planers of all types. Articulating/end dumps (minus \$4.00/hour from Class 2 rate)

Class 3 - A Frames; Air Compressors, Pressurizing Shafts or Tunnels; All Asphalt Rollers; Bobcat-type and/or skid steer loader with or without attachments; Boilers (15 lbs pressure and over); All concrete Pumps (without booms with 5 inch system); Fork Lifts (except masonry); Highway Drillers - all types (with integral power); Hoists (with one drum); House Elevators (except those automatic call button controlled); Man lifts; Mud Jacks; Pressure Grouting; Pump Operators (installing or operating Well Points or other types of Dewatering Systems); Pumps (4 inches and over discharge); Railroad Tie Inserter/Remover; Rotator (Lime-Soil Stabilizer); Submersible Pumps (4 inches and over discharge); Switch & Tie Tampers (without lifting and aligning device); Trench Machines (24 inches and under); Utility Operators; Material hoist/elevators.

Class 4 - Ballast Re-locator; Backfillers and Tampers; Batch Plant Operators; Bar and Joint Installing Machines; Bull Floats; Burlap and Curing Machines; Clefplanes; Compressors, on building construction; Concrete Spreader; Conveyors, used for handling building materials; Concrete Mixers, one bag capacity (side loader); Concrete Mixers, capacity more than one bag; Crushers; Deck Hands; Drum Fireman (in Asphalt Plant); Farm type tractors pulling attachments; Finishing Machines; Form Trenchers; Generators; Guniting Machines; Hydro-Seeders; Pavement Breakers (hydraulic or cable); Post Drivers; Post Hole Diggers; Pressure Pumps (over 1/2 inch discharge); Road Widening Trenchers; Rollers (except asphalt); All Concrete pumps (without Boom with 4 inch or smaller systems); Self-Propelled Power Spreaders; Concrete Spreaders; Self-Propelled Sub-graders; Shotcrete Machines; Tire Repairmen; Tractors, pulling sheepfoot rollers or graders; VAC/ALLS; Vibratory Compactors, with integral power; Welder Operators.

Class 5 - Boilers (less than 15 lbs. pressure); Inboard/outboard Motor Boat Launches; Light Plant Operators; Masonry Fork Lifts; Oilers/Helpers; Power Driven Heaters (oil fired); Power Scrubbers; Power Sweepers; Pumps (under 4 inch discharge); Signalmen, Submersible Pumps (under 4 inch discharge). Directional Drill Locator and Allen Screed Concrete Paver. Fueling and greasing (plus \$3.00), compact cranes; track or rubber under 4,000 pounds.

Class 6 - Master Mechanic

Class 7 - Boom & Jib 150 - 180 feet

Class 8 - Boom & Jib 180 - 249 feet

Class 9 - Boom & Jib 250 - or over

through the referral when they are available. An apprentice, while employed as part of a crew per Article VIII paragraph 65, will not be subject the apprenticeship ratios in this collective bargaining agreement.

CLERMONT, CLINTON, COSHOCTON,
CRAWFORD, DARKE, DEFIANCE,
DELAWARE, FAIRFIELD, FAYETTE,
FRANKLIN, FULTON, GALLIA, GREENE,
GUERNSEY, HAMILTON, HANCOCK,
HARDIN, HARRISON, HENRY, HIGHLAND,
HOCKING, HOLMES, HURON, JACKSON,
JEFFERSON, KNOX, LAWRENCE, LICKING,
LOGAN, LUCAS, MADISON, MARION, MEIGS,
MERCER, MIAMI, MONROE, MONTGOMERY,
MORGAN, MORROW, MUSKINGUM, NOBLE,
OTTAWA, PAULDING, PERRY, PICKAWAY,
PIKE, PREBLE, PUTNAM, RICHLAND, ROSS,
SANDUSKY, SCIOTO, SENECA, SHELBY,
STARK, TUSCARAWAS, UNION, VAN WERT,
VINTON, WARREN, WASHINGTON, WAYNE,
WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

**Apprentices will receive a 10% increase on top of the percentages listed above provided they are operating mobile equipment. Mechanic Trainees will receive 10% increase if they are required to have CDL.

Class 1 - Air Compressors on Steel Erection; Barrier Moving Machine; Boiler Operators, on Compressors or Generators, when mounted on a rig; Cableways, Combination Concrete mixers & Towers; Concrete Pumps; Concrete Plants (over 4 yd capacity); Cranes (all types, including Boom Trucks, Cherry Pickers); Derricks; Draglines, Dredgers (dipper, clam or suction); Elevating Graders or Euclid Loaders; Floating Equipment (all types); Gradalls, Helicopter Crew (Operator- hoist or winch); Hoes (all types); Hoisting Engines, on shaft or tunnel work; Hydraulic Gantry (lifting system); Industrial - Type Tractors; Jet Engine Dryers (D8 or D9), Diesel Tractors; Locomotives (standard gage); Maintenance Operators (class A); Mixers, paving (single or double drum); Mucking Machines; Multiple Scrapers; Piledriving Machines (all types); Power Shovels, Prentice Loader; Quad 9 (double pusher); Rail Tamper (with automatic lifting and aligning device); Refrigerating Machines (freezer operation); Side Booms; Slip Form Pavers; Tower Dericks; Tree Shredders; Truck Mounted Concrete Pumps; Tug Boats; Tunnel Machines and /or Mining Machines; Wheel Excavators. Rough Terrain Fork-lift with Winch/Hoist; Compact Cranes, track rubber over 4,000 pound capacity, self-erecting cranes; stationary, track or truck (all configurations) Bucket trench machines (over 24 inches wide).

Class 2 - Asphalt Pavers; Automatic Subgrade Machines, self-propelled (CMI-type); Bobcat-type and /or skid steer loader with hoe attachment greater than 7000 lbs.; Boring Machine Operators (more than 48 inches); Bulldozers; Endloaders; Hydro Milling Machine; Kolman-type Loaders (production type-dirt); Lead Greasemen; Maintenance Operators, Class B (Portage and Summit Counties only); Pettibone-Rail Equipment; Power Graders; Power Scrapers; Push Cats; Lighting and Traffic Signal Installation Equipment includes all groups or classifications; Trench Machines (24inch wide and under);

Vermeer Type Concrete saw. Material Transfer Equipment (Shuttle buggy) Asphalt; All rotomills,grinders and planers of all types. Horizontal Directional Drill (Over 50,000 ft.lbs.thrust and over)

Class 3 - A-Frames; Air Compressors, on tunnel work (low Pressure); Asphalt Plant Engineers; Bobcat-type and/or skid steer loader with or without attachments; Power Boilers (15 lbs pressure and over); Highway Drills (all types); Rollers, asphalt; Pump Operators (installing or operating well Points); Pumps (4 inch and over discharge); Railroad Tie Inserter/Remover; Rotator (lime-soil Stabilizer), Switch & Tie Tampers (without lifting and aligning device); Locomotives (narrow gage); Mixers, concrete (more than one bag capacity); Mixers, one bag capacity (side loader); Utilities Operators, (small equipment); Welding Machines; Material hoist/elevators. Articulating/straight bed end dumps if assigned (minus \$4.00 per hour).

Class 4 -Ballast Re-locator; Backfillers, Batch Plants; Bar and Joint Installing Machines; Boring Machine Operators (48 inch or less); Bull Floats; Burlap and Curing Machines; Concrete Plants (capacity 4 yd and under); Conveyors (highway); Concrete Saws (multiple); Crushers; Deckhands; Farm type tractors, with attachments (highway), except masonry; Finishing Machines; Firemen, Floating Equipment (all types); Fork Lifts (highway); Form Trenchers; Hydro Hammers; Hydro Seeders; Pavement Breakers; Plant Mixers; Post Drivers; Post Hole Diggers (power auger); Power Brush Burners; Power Form Handling Equipment; Road Widening Trenchers; Rollers (brick, grade, macadam); Self-Propelled Power Spreaders; Self-Propelled Sub-Graders; Tractors, pulling sheepsfoot rollers or graders; Steam Firemen; Vibratory Compactors, with integral power.

Class 5 - Compressors (portable, Sewer, Heavy and Highway); Generators; Inboard-Outboard Motor Boat Launches; Masonry Fork Lifts; Oilers/Helpers; Power Driven Heaters; Power Scrubbers; Power Sweepers; Pumps (under 4 inch discharge); Signalmen; Drum Fireman (in Asphalt Plant); Oil Heaters (Asphalt Plant); Tire Repairmen; VAC/ALLS; Fueling and greasing (plus \$3.00), compact cranes: track or rubber under 4,000 pounds.

Class 6 - Master Mechanic

Prevailing Wage Rate Skilled Crafts

Name of Union: Painter Local 841 Zone II

Change # : LCN01-2017fbLoc603Com.

Craft : Painter Effective Date : 11/08/2017 Last Posted : 11/08/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)		
Classification											
Painter Brush Roll	\$21.77	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$34.65	\$45.53
Paperhanger	\$21.87	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$34.75	\$45.69
Spray Painter	\$22.27	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.15	\$46.28
Epoxy Applications Class 3	\$22.27	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.15	\$46.28
Epoxy Applications Class 4	\$22.27	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.15	\$46.28
Apprentice	Percent										
1st 6 months	50.00	\$10.89	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$23.77	\$29.21
2nd 6 months	55.00	\$11.97	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$24.85	\$30.84
3rd 6 months	60.00	\$13.06	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$25.94	\$32.47
4th 6 months	65.00	\$14.15	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$27.03	\$34.11
5th 6 months	70.00	\$15.24	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$28.12	\$35.74
6th 6 months	75.00	\$16.33	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$29.21	\$37.37
7th 6 months	80.00	\$17.42	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$30.30	\$39.00
8th 6 months	90.00	\$19.59	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$32.47	\$42.27

Special Calculation Note : Apprentice pay based on percentage of above appropriate classification.

Ratio :
3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL, COSHOCTON, HOLMES, STARK,
TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Appendix B
Commercial and industrial work, performed outside the regular work day, the rate of pay shall be \$2.00 per hour above the applicable wage scale. This rate of pay is only applicable for eight – (8) hours. Additional hours shall be paid at the rate of time and one – half.

Appendix B 8th 6 Months	90.00	\$19.86	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$32.74	\$42.67

Special Calculation Note : Apprentice pay based on percentage of above classification.

Ratio :
3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL, COSHOCTON, HOLMES, STARK,
TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Commercial and industrial work, performed outside the regular work day, the rate of pay shall be \$2.00 per hour above the applicable wage scale. This rate of pay is only applicable for eight – (8) hours. Additional hours shall be paid at the rate of time and one – half.

Prevailing Wage Rate Skilled Crafts

Name of Union: Painter Local 841 Zone II

Change # : LCN01-2017fbLoc603Com.

Craft : Drywall Finisher Effective Date : 11/08/2017 Last Posted : 11/08/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Painter Drywall Finisher	\$22.17		\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.05	\$46.14
Drywall Taping	\$22.17		\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.05	\$46.14
Taping and Finishing with Machines	\$22.52		\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.40	\$46.66
Wipe Down Man & Taper, Swing Stage, Ladder Jack or Window Jack	\$22.82		\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.70	\$47.11
Stilts & Automatic Tools	\$22.97		\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.85	\$47.33
Apprentice	Percent											
1st 6 months	50.00	\$11.09	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.97	\$29.51
2nd 6 months	55.00	\$12.19	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.07	\$31.17
3rd 6 months	60.00	\$13.30	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.18	\$32.83
4rd 6 months	70.00	\$15.52	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28.40	\$36.16
5th 6 months	80.00	\$17.74	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30.62	\$39.48
6th 6 months	90.00	\$19.95	\$6.16	\$6.37	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$32.83	\$42.81

Special Calculation Note : Apprentice pay based on percentage of above appropriate classification.

Ratio : **Jurisdiction (* denotes special jurisdictional note) :**

Special Jurisdictional Note :

Details :

Commercial and industrial work, performed outside the regular work day, the rate of pay shall be \$2.00 per hour above the applicable wage scale. This rate of pay is only applicable for eight – (8) hours. Additional hours shall be paid at the rate of time and one – half.

Prevailing Wage Rate Skilled Crafts

Name of Union: Painter Local 603

Change # : LCN01-2012fbLoc603Com.

Craft : Drywall Finisher Effective Date : 06/06/2012 Last Posted : 06/06/2012

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Painter Drywall Finisher	\$20.10		\$4.96	\$5.40	\$0.19	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$31.10	\$41.15
Drywall Taping	\$20.10		\$4.96	\$5.40	\$0.19	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$31.10	\$41.15
Taping and Finishing with Automatic Tools	\$20.45		\$4.96	\$5.40	\$0.19	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$31.45	\$41.67
Apprentice	Percent											
1st 6 months	40.00	\$8.04	\$4.96	\$5.40	\$0.19	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$19.04	\$23.06
2nd 6 months	50.00	\$10.05	\$4.96	\$5.40	\$0.19	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$21.05	\$26.08
3rd 6 months	60.00	\$12.06	\$4.96	\$5.40	\$0.19	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$23.06	\$29.09
4rd 6 months	70.00	\$14.07	\$4.96	\$5.40	\$0.19	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$25.07	\$32.11
5th 6 months	80.00	\$16.08	\$4.96	\$5.40	\$0.19	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$27.08	\$35.12
6th 6 months	90.00	\$18.09	\$4.96	\$5.40	\$0.19	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$29.09	\$38.14

Special Calculation Note : Apprentice pay based on percentage of above appropriate classification.

Appendix B

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, COSHOCTON, HOLMES, STARK,
TUSCARAWAS, WAYNE

Special Jurisdictional Note :**Details :**

Journeymen and apprentices using coal tar, vinyl's, epoxies or any product using hot or special thinner, shall be paid an additional \$0.50 per hour for (class 3) and an additional \$.50 for (class 4) of each classification. This does not apply to water based epoxies.

When concrete block is filled by spray application, Roller men shall be paid \$0.25 per hour in addition to the Brush and Roll rate.

Drywall Finisher: both wipe down man and finisher, when using Journeyman's own stilts or automatic tools add .80 per hour worked to the classification above. Drywall Finishers: both wipe down man and taper/finisher, swing stage, ladder jack, or window jack add \$.30 per hour worked to the above classification.

Appendix B

Details :

Journeyman and apprentices using coal tar, vinyl's, epoxies or any product using hot or special thinner, shall be paid an additional \$0.50 per hour for (class 3) and an additional \$.50 for (class 4) of each classification. This does not apply to water based epoxies.

When concrete block is filled by spray application, Roller men shall be paid \$0.25 per hour in addition to the Brush and Roll rate.

Drywall Finisher: both wipe down man and finisher (\$20.95) when using Journeyman's own stilts or automatic tools (\$21.45). Drywall Finisher w/Machines both wipe down man and finisher (\$21.30) when using Journeyman's own stilts or automatic tools (\$21.80) Apprentice pay based on percentage of above appropriate classification.

Special Jurisdictional Note :

Details :

Top Helper: Shall perform the responsibilities of a Helper and be responsible for the setup, break down, safety and quality of the company's product.

Helper : Shall be responsible for performing tasks in refinishing, compliance with safety procedures, setting up and breaking down job sites, scaffolding and swing stages and preparing surfaces for refinishing including but not limited to, masking and stripping and cleaning, oxidizing, polishing and scratch removal on various surfaces

Class A Workers: Less than 1 Year of Service.

Class B Workers: More than 1 and less than 8 Years of Service.

Class C Workers: More than 8 Years of Service.

Metal Polisher Scope of Work: Polishing, buffing, stripping, coloring, lacquering, spraying, cleaning and maintenance of ornamental and architectural metals, iron, bronze, nickel, aluminum and stainless steel and in mental specialty work, various stone finishes, stone specialty work and any other work pertaining to the finishing of metal, stones, woods, and any window washing/cleaning done in conjunction with this work, using chemicals, solvents, coatings and hand applied lacquer thinner, removing scratches from mirror finished metals, burnishing of bronze, statuary finishes on exterior and interior surfaces and the use of all tools required to perform such work, including but not limited to polishes, spray equipment and scaffolding.

Swing State Rate: All work on scaffold 4 sections or higher, including any boom lifts and swing stage scaffolds including the rigging and derigging of hanging/suspended swing stage systems and rappelling/bolson chair work, ADD \$1.50 per hour.

Appendix B

1 Journeymen to 1 Apprentice


CARROLL, COSHOCTON, HOLMES, STARK,
TUSCARAWAS, WAYNE

**Special Jurisdictional Note :****Details :**

Journeymen and apprentices using coal tar, vinyl's, epoxies or any product using hot or special thinner, shall be paid an additional \$0.50 per hour for (class 3) and an additional \$.50 for (class 4) of each classification. This does not apply to water based epoxies.

When concrete block is filled by spray application, Roller men shall be paid \$0.25 per hour in addition to the Brush and Roll rate.

Drywall Finisher: both wipe down man and finisher (\$20.95) when using Journeyman's own stilts or automatic tools (\$21.45). Drywall Finisher w/Machines both wipe down man and finisher (\$21.30) when using Journeyman's own stilts or automatic tools (\$21.80) Apprentice pay based on percentage of above appropriate classification.



Appendix B

4000 hrs 50% plus (\$4.46 h&w)+(\$1.00 pension)+(\$0.25 apprentice training) + vacation \$0.37
 5000 hrs 70% plus (\$4.46 h&w)+(\$1.00 pension)+(\$0.25 apprentice training) + vacation \$0.37
 6000 hrs 85% plus (\$4.46 h&w)+(\$1.00 pension)+(\$0.25 apprentice training) + vacation \$0.37
 7000 hrs 90% plus (\$4.46 h&w)+(\$1.00 pension)+(\$0.25 apprentice training) + vacation \$0.37

Ratio :

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, ASHTABULA, CUYAHOGA, ERIE,
 GEAUGA, LAKE, LORAIN, MEDINA,
 PORTAGE, RICHLAND, STARK, SUMMIT

Special Jurisdictional Note :

Details :

Sign and display work shall include but not limited: to the making and installation of all signs and servicing of the same, lettering and pictorial work of any kind, including vinyl signs and vinyl substrates and the preparing for the finishing of same, be it by hand, brush, roller,spray, mechanical or computer aided and by any other method or process pertaining to same: they shall have control of all branches, methods and processes of screen process work: tube bending and display work such as creating, building and finishing of all display matter and its related operations used for advertising purposes, including all lettering whether it be done by hand, mechanical or computer aided or by any other method or process pertaining to same: the construction, erection and maintenance of all billboards and all communication advertising.

Prevailing Wage Rate Skilled Crafts

Name of Union: Painter Local 639 Zone 2 Sign

Change # : LCN01-2016fbLoc639

Craft : Painter Effective Date : 08/03/2016 Last Posted : 08/03/2016

Classification	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Painter Sign Journeyman Tech/Team Leader Class A	\$21.25	\$1.33	\$0.14	\$0.00	\$0.00	\$0.00	\$0.57	\$0.00	\$0.00	\$23.29	\$33.92
Painter Sign Journeyman Tech/Team Leader Class B	\$21.25	\$1.33	\$0.14	\$0.00	\$0.41	\$0.00	\$0.57	\$0.00	\$0.00	\$23.70	\$34.32
Painter Sign Journeyman Tech/Team Leader Class C	\$21.25	\$1.33	\$0.14	\$0.00	\$0.82	\$0.00	\$0.57	\$0.00	\$0.00	\$24.11	\$34.74
Painter Sign Journeyman Tech/Team Leader Class D	\$21.25	\$1.33	\$0.14	\$0.00	\$1.23	\$0.00	\$0.57	\$0.00	\$0.00	\$24.52	\$35.14
Sign Journeyman Class A	\$20.98	\$1.33	\$0.14	\$0.00	\$0.00	\$0.00	\$0.56	\$0.00	\$0.00	\$23.01	\$33.50
Sign Journeyman Class B	\$20.98	\$1.33	\$0.14	\$0.00	\$0.40	\$0.00	\$0.56	\$0.00	\$0.00	\$23.41	\$33.90
Sign Journeyman Class C	\$20.98	\$1.33	\$0.14	\$0.00	\$0.81	\$0.00	\$0.56	\$0.00	\$0.00	\$23.82	\$34.31
Sign Journeyman Class D	\$20.98	\$1.33	\$0.14	\$0.00	\$1.21	\$0.00	\$0.56	\$0.00	\$0.00	\$24.22	\$34.71
Tech Sign Fabrication/ Erector Class A	\$15.90	\$1.33	\$0.14	\$0.00	\$0.00	\$0.00	\$0.43	\$0.00	\$0.00	\$17.80	\$25.75
Tech Sign Fabrication/ Erector Class B	\$15.90	\$1.33	\$0.14	\$0.00	\$0.31	\$0.00	\$0.43	\$0.00	\$0.00	\$18.11	\$26.06
Tech Sign Fabrication/ Erector Class C	\$15.90	\$1.33	\$0.14	\$0.00	\$0.61	\$0.00	\$0.43	\$0.00	\$0.00	\$18.41	\$26.36
Tech Sign Fabrication/ Erector	\$15.90	\$1.33	\$0.14	\$0.00	\$0.92	\$0.00	\$0.43	\$0.00	\$0.00	\$18.72	\$26.67

Prevailing Wage Rate Skilled Crafts

Name of Union: Painter Local 639 (Cleveland Area) Sign

Change # : CN01-2006Loc639Cleve

Craft : Painter Effective Date : 01/03/2006 Last Posted : 01/03/2006

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Painter Sign	\$20.20	\$3.13	\$3.25	\$0.20	\$1.96	\$0.00	\$0.00			\$28.74	\$38.84
Apprentice	Percent										
1000 hrs	40.00	\$8.08	\$3.13	\$3.25	\$0.20	\$1.07	\$0.00	\$0.00		\$15.73	\$19.77
2000 hrs	50.00	\$10.10	\$3.13	\$3.25	\$0.20	\$1.22	\$0.00	\$0.00		\$17.90	\$22.95
3000 hrs	60.00	\$12.12	\$3.13	\$3.25	\$0.20	\$1.37	\$0.00	\$0.00		\$20.07	\$26.13
4000 hrs	70.00	\$14.14	\$3.13	\$3.25	\$0.20	\$1.51	\$0.00	\$0.00		\$22.23	\$29.30
5000 hrs	75.00	\$15.15	\$3.13	\$3.25	\$0.20	\$1.59	\$0.00	\$0.00		\$23.32	\$30.89
6000 hrs	80.00	\$16.16	\$3.13	\$3.25	\$0.20	\$1.66	\$0.00	\$0.00		\$24.40	\$32.48
7000 hrs	85.00	\$17.17	\$3.13	\$3.25	\$0.20	\$1.74	\$0.00	\$0.00		\$25.49	\$34.07
8000 hrs	90.00	\$18.18	\$3.13	\$3.25	\$0.20	\$1.81	\$0.00	\$0.00		\$26.57	\$35.66

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
 ALLEN, ASHLAND, ASHTABULA, AUGLAIZE, BELMONT, CARROLL, CHAMPAIGN, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DEFIANCE, ERIE, FULTON, GEAUGA, GUERNSEY, HANCOCK, HARDIN, HARRISON, HENRY, HOLMES, HURON, JEFFERSON, KNOX, LAKE, LOGAN, LORAIN, LUCAS, MAHONING, MARION, MEDINA,

Appendix B

MERCER, MONROE, MORROW, NOBLE,
OTTAWA, PAULDING, PIKE, PORTAGE,
PUTNAM, RICHLAND, SANDUSKY, SENECA,
SHELBY, STARK, SUMMIT, TRUMBULL,
TUSCARAWAS, VAN WERT, WASHINGTON,
WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Painter Local 639 (D) Sign

Change # : CN01-2005Loc639D

Craft : Painter Effective Date : 12/12/2005 Last Posted : 12/12/2005

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Painter Sign Erector	\$15.25		\$3.65	\$1.45	\$0.10	\$1.34	\$0.00	\$0.00			\$21.79	\$29.41
Sign Fabricator	\$15.25		\$3.65	\$1.45	\$0.10	\$1.34	\$0.00	\$0.00			\$21.79	\$29.41
Serviceman	\$15.25		\$3.65	\$1.45	\$0.10	\$1.34	\$0.00	\$0.00			\$21.79	\$29.41
Apprentice	Percent											
0-6 Months	60.00	\$9.15	\$3.65	\$1.45	\$0.10	\$0.94	\$0.00	\$0.00			\$15.29	\$19.87
6-12 Months	65.00	\$9.91	\$3.65	\$1.45	\$0.10	\$0.99	\$0.00	\$0.00			\$16.10	\$21.06
12-18 Months	70.00	\$10.67	\$3.65	\$1.45	\$0.10	\$1.04	\$0.00	\$0.00			\$16.91	\$22.25
18-24 Months	75.00	\$11.44	\$3.65	\$1.45	\$0.10	\$1.09	\$0.00	\$0.00			\$17.73	\$23.45
24-30 Months	80.00	\$12.20	\$3.65	\$1.45	\$0.10	\$1.14	\$0.00	\$0.00			\$18.54	\$24.64
30-36 Months	85.00	\$12.96	\$3.65	\$1.45	\$0.10	\$1.19	\$0.00	\$0.00			\$19.35	\$25.83
36-42 Months	90.00	\$13.73	\$3.65	\$1.45	\$0.10	\$1.24	\$0.00	\$0.00			\$20.16	\$27.03
42-48 Months	95.00	\$14.49	\$3.65	\$1.45	\$0.10	\$1.29	\$0.00	\$0.00			\$20.98	\$28.22

Special Calculation Note : Add .75 cents increase per hour for high pay over 40 feet.

Ratio :

Jurisdiction (* denotes special jurisdictional note) :

Appendix B

3 Journeymen to 1 Apprentice

CARROLL, COSHOCTON, HOLMES, KNOX,
STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Plumber Pipefitter Local 94

Change # : LCN01-2018fbLoc94

Craft : Plumber/Pipefitter Effective Date : 08/15/2018 Last Posted : 08/15/2018

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate	
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)			
Classification												
Plumber Pipefitter	\$35.28	\$7.48	\$5.49	\$0.72	\$0.00	\$5.55	\$0.19	\$0.00	\$0.00	\$54.71	\$72.35	
Apprentice Hired Before 05-01-2017												
1st 6 Months	\$14.11	\$7.48	\$0.00	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$24.26	\$31.32	
2nd 6 Months	\$15.88	\$7.48	\$0.00	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$26.03	\$33.97	
3rd 6 months	\$17.64	\$7.48	\$0.50	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$28.29	\$37.11	
4th 6 Months	\$19.40	\$7.48	\$0.50	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$30.05	\$39.75	
5th 6 Months	\$21.17	\$7.48	\$0.50	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$31.82	\$42.40	
6th 6 months	\$22.93	\$7.48	\$0.50	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$33.58	\$45.04	
7th 6 Months	\$26.46	\$7.48	\$0.50	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$37.11	\$50.34	
8th 6 Months	\$28.22	\$7.48	\$0.50	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$38.87	\$52.98	
9th 6 Months	\$29.99	\$7.48	\$0.50	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$40.64	\$55.64	
10th 6 Months	\$31.75	\$7.48	\$0.50	\$0.72	\$0.00	\$1.76	\$0.19	\$0.00	\$0.00	\$42.40	\$58.28	
Apprentice If Hired After 5-01-2017	Percent											
1st Year	40.00	\$14.11	\$7.48	\$0.00	\$0.72	\$0.00	\$2.65	\$0.19	\$0.00	\$0.00	\$25.15	\$32.21

Appendix B

2nd Year	50.00	\$17.64	\$7.48	\$0.50	\$0.72	\$0.00	\$2.64	\$0.19	\$0.00	\$0.00	\$29.17	\$37.99
3rd Year	60.00	\$21.17	\$7.48	\$0.50	\$0.72	\$0.00	\$2.64	\$0.19	\$0.00	\$0.00	\$32.70	\$43.28
4th Year	70.00	\$24.70	\$7.48	\$0.74	\$0.72	\$0.00	\$4.16	\$0.19	\$0.00	\$0.00	\$37.99	\$50.33
5th Year	80.00	\$28.22	\$7.48	\$0.75	\$0.72	\$0.00	\$4.16	\$0.19	\$0.00	\$0.00	\$41.52	\$55.64

Special Calculation Note : Other is Industry and International Training Fund.

Ratio :

- 1 Journeymen to 2 Apprentice
- 4 Journeymen to 3 Apprentice
- 6 Journeymen to 4 Apprentice
- 9 Journeymen to 5 Apprentice

3 Journeyman to 1 Apprentice Thereafter

Jurisdiction (* denotes special jurisdictional note) :

CARROLL*, STARK, WAYNE

Special Jurisdictional Note : In Carroll County the following townships are included: Ross, Monroe, Union, Lee, Orange, Perry and London.

Details :

Appendix B

Prevailing Wage Rate

Skilled Crafts

Name of Union: Roofer Local 88

Change # : LCN01-2017fbLoc88

Craft : Roofer Effective Date : 07/26/2017 Last Posted : 07/27/2017

Classification	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Roofer	\$25.30		\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$42.16	\$54.81
HELPERS												
1st year Helper - 500 1st 6 months	\$12.00		\$2.25	\$0.00	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$14.90	\$20.90
1st year Helper - 500 w/12 months	\$12.65		\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$29.51	\$35.84
2nd year Helper - w/12 months	\$14.17		\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$31.03	\$38.11
3rd year Helper - w/12 months	\$15.69		\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$32.55	\$40.39
4th year Helper - w/12 months	\$17.20		\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$34.06	\$42.66
5th year Helper - w/12 months	\$18.72		\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$35.58	\$44.94
6th year Helper	\$20.24		\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$37.10	\$47.22
Apprentice		Percent										
1st 6 months w/500 hrs	50.00	\$12.65	\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$29.51	\$35.84
2nd 6 months w/500 hrs	56.00	\$14.17	\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$31.03	\$38.11
3rd 6 months w/500 hrs	62.00	\$15.69	\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$32.55	\$40.39
4th 6 months w/500 hrs	68.00	\$17.20	\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$34.06	\$42.67
5th 6 months w/500 hrs	74.00	\$18.72	\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$35.58	\$44.94
6th 6 months w/500 hrs	80.00	\$20.24	\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$37.10	\$47.22
7th 6 months w/500 hrs	86.00	\$21.76	\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$38.62	\$49.50
8th 6 months w/500 hrs	92.00	\$23.28	\$8.52	\$7.69	\$0.13	\$0.00	\$0.40	\$0.12	\$0.00	\$0.00	\$40.14	\$51.77

Special Calculation Note : Roofers working in any form of coal tar pitch, whether hot or cold, installing and/or removing will be paid \$.25 more per hour. Other \$.12 is for C.I.D.B.

Ratio :
Appendix B

No helper shall be used on any one job unless 1 Journeymen, and 1 Apprentices are working on said job .One
(1) Journeymen to One (1) Apprentice to One (1) Helper

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COSHOCTON, CRAWFORD, HOLMES, HURON, LORAIN*, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TUSCARAWAS, WAYNE

Special Jurisdictional Note : In Lorain County (South of the Turnpike)

Details :

Appendix B

Details :

Scope of Work: This Agreement covers the rates of pay and conditions of employment of all employees of the Employer engaged in, but not limited to, the a) manufacture, fabrication, assembling, handling, erection, installation, dismantling, conditioning, adjustment, alteration, repairing and servicing of all ferrous or non-ferrous metal work and all other materials used in lieu thereof and of all HVAC systems, air-veyor systems, exhaust systems, and air handling systems regardless of material used, including the setting of all equipment and all reinforcements in connection therewith; (b) all lagging over insulation and all duct-lining; (c) testing, servicing, and balancing of all air-handling equipment and duct work; (d) the preparation of all shop and field sketches, whether manually drawn or computer assisted, used in fabrication and erection, including those taken from original architectural and engineering drawings or sketches, and (e) metal roofing; and (f) all other work included in the jurisdictional claims of Sheet Metal Worker's International Association.

Prevailing Wage Rate Skilled Crafts

Name of Union: Sheet Metal Local 33 (Akron) Decking

Change # : CN01-2009Loc33(Akron)Deck

Craft : Sheet Metal Worker Effective Date : 09/24/2009 Last Posted : 09/24/2009

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Sheet Metal Worker Decking & Siding	\$20.06		\$6.31	\$6.35	\$0.38	\$0.00	\$0.00	\$0.98			\$34.08	\$44.11
Decking & Siding Specialty Trainees	Percent											
1st 30 days	64.25	\$12.89	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$12.89	\$19.33
2nd thru 6th months	64.25	\$12.89	\$6.31	\$6.35	\$0.00	\$0.00	\$0.00	\$0.00			\$25.55	\$31.99
7th thru 12th months	64.28	\$12.89	\$6.31	\$6.35	\$0.38	\$0.00	\$0.00	\$0.98			\$26.91	\$33.36
2nd year	78.56	\$15.76	\$6.31	\$6.35	\$0.38	\$0.00	\$0.00	\$0.98			\$29.78	\$37.66

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

Jurisdiction (* denotes special jurisdictional note) :

Appendix B

3 Journeymen To 1 Apprentice

ASHLAND, CARROLL, COSHOCTON,
CRAWFORD, HOLMES, MEDINA, PORTAGE,
RICHLAND, STARK, SUMMIT, TUSCARAWAS,
WAYNE

Special Jurisdictional Note :

Details :

Work but not limited to:Exterior application of manufactured and/or job site fabricated metal decking, siding and exterior appurtenances thereto. The erection of pre-engineered metal buildings, pre-manufactured gas stations and appurtenances thereto. The installation of metal roofs and appurtenances. The erection and/or job site fabrication of draft or fire curtains and appurtenances thereto.

Prevailing Wage Rate Skilled Crafts

Name of Union: Sprinkler Fitter Local 669

Change # : LCN02-2018fbLoc669

Craft : Sprinkler Fitter Effective Date : 04/04/2018 Last Posted : 04/04/2018

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Sprinkler Fitter	\$37.78		\$9.67	\$6.40	\$0.52	\$0.00	\$5.12	\$0.00	\$0.00	\$0.00	\$59.49	\$78.38
Indentured Between April 1, 2010-March 31, 2013												
45%	\$17.00		\$7.75	\$0.00	\$0.52	\$0.00	\$0.69	\$0.00	\$0.00	\$0.00	\$25.96	\$34.46
50%	\$18.89		\$7.75	\$0.00	\$0.52	\$0.00	\$0.74	\$0.00	\$0.00	\$0.00	\$27.90	\$37.35
55%	\$20.78		\$9.67	\$6.40	\$0.52	\$0.00	\$0.53	\$0.00	\$0.00	\$0.00	\$37.90	\$48.29
60%	\$22.67		\$9.67	\$6.40	\$0.52	\$0.00	\$0.58	\$0.00	\$0.00	\$0.00	\$39.84	\$51.18
65%	\$24.56		\$9.67	\$6.40	\$0.52	\$0.00	\$1.13	\$0.00	\$0.00	\$0.00	\$42.28	\$54.56
70%	\$26.45		\$9.67	\$6.40	\$0.52	\$0.00	\$1.18	\$0.00	\$0.00	\$0.00	\$44.22	\$57.45
75%	\$28.34		\$9.67	\$6.40	\$0.52	\$0.00	\$1.23	\$0.00	\$0.00	\$0.00	\$46.16	\$60.33
80%	\$30.22		\$9.67	\$6.40	\$0.52	\$0.00	\$1.28	\$0.00	\$0.00	\$0.00	\$48.09	\$63.20
85%	\$32.11		\$9.67	\$6.40	\$0.52	\$0.00	\$1.32	\$0.00	\$0.00	\$0.00	\$50.02	\$66.07
90%	\$34.00		\$9.67	\$6.40	\$0.52	\$0.00	\$1.37	\$0.00	\$0.00	\$0.00	\$51.96	\$68.96
Apprentice Indentured after April 1, 2013	Percent											
CLASS 1	45.00	\$17.00	\$7.75	\$0.00	\$0.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.27	\$33.77
CLASS 2	50.00	\$18.89	\$7.75	\$0.00	\$0.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.16	\$36.61
CLASS 3	55.00	\$20.78	\$9.67	\$6.40	\$0.52	\$0.00	\$0.65	\$0.00	\$0.00	\$0.00	\$38.02	\$48.41
CLASS 4	60.00	\$22.67	\$9.67	\$6.40	\$0.52	\$0.00	\$0.65	\$0.00	\$0.00	\$0.00	\$39.91	\$51.24
CLASS 5	65.00	\$24.56	\$9.67	\$6.40	\$0.52	\$0.00	\$0.90	\$0.00	\$0.00	\$0.00	\$42.05	\$54.33
CLASS 6	70.00	\$26.45	\$9.67	\$6.40	\$0.52	\$0.00	\$0.90	\$0.00	\$0.00	\$0.00	\$43.94	\$57.16
CLASS 7	75.00	\$28.33	\$9.67	\$6.40	\$0.52	\$0.00	\$0.90	\$0.00	\$0.00	\$0.00	\$45.83	\$59.99
CLASS 8	80.00	\$30.22	\$9.67	\$6.40	\$0.52	\$0.00	\$0.90	\$0.00	\$0.00	\$0.00	\$47.71	\$62.83
CLASS 9	85.00	\$32.11	\$9.67	\$6.40	\$0.52	\$0.00	\$0.90	\$0.00	\$0.00	\$0.00	\$49.60	\$65.66
CLASS 10	90.00	\$34.00	\$9.67	\$6.40	\$0.52	\$0.00	\$0.90	\$0.00	\$0.00	\$0.00	\$51.49	\$68.49

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

1 Journeyman to 1 Apprentice

consultation (denotes special jurisdictional
note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA,
ATHENS, AUGLAIZE, BELMONT, BROWN,
BUTLER, CARROLL, CHAMPAIGN, CLARK,
CLERMONT, CLINTON, COLUMBIANA,
COSHOCTON, CRAWFORD, DARKE, DEFIANCE,
DELAWARE, ERIE, FAIRFIELD, FAYETTE,
FRANKLIN, FULTON, GALLIA, GREENE,
GUERNSEY, HAMILTON, HANCOCK, HARDIN,
HARRISON, HENRY, HIGHLAND, HOCKING,
HOLMES, HURON, JACKSON, JEFFERSON, KNOX,
LAWRENCE, LICKING, LOGAN, LUCAS,
MADISON, MAHONING, MARION, MEDINA,
MEIGS, MERCER, MIAMI, MONROE,
MONTGOMERY, MORGAN, MORROW,
MUSKINGUM, NOBLE, OTTAWA, PAULDING,
PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE,
PUTNAM, RICHLAND, ROSS, SANDUSKY,
SCIOTO, SENECA, SHELBY, STARK, SUMMIT,
TRUMBULL, TUSCARAWAS, UNION, VAN WERT,
VINTON, WARREN, WASHINGTON, WAYNE,
WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :**Details :**

Sprinkler Fitter work shall consist of the installation, dismantling, maintenance, repairs, adjustments, and corrections of all fire protection and fire control systems including the unloading, handling by hand, power equipment and installation of all piping or tubing, appurtenances and equipment pertaining thereto, including both overhead and underground water mains, fire hydrants and hydrant mains, standpipes and hose connections to sprinkler systems used in connection with sprinkler and alarm systems. Also all tanks and pumps connected thereto, also included shall be CO-2 and Cardox Systems, Dry Chemical Systems, Foam Systems and all other fire protection systems.

Appendix B
Journeyman to 1 Apprentice
per company/project

[http://198.234.41.198/w3/Webwh.nsf/\\$docUniqIDAll/852565B8007](http://198.234.41.198/w3/Webwh.nsf/$docUniqIDAll/852565B8007)

ADAMS, ALLEN, ASHLAND, ASHTABULA,
ATHENS, AUGLAIZE, BELMONT, BROWN,
BUTLER, CARROLL, CHAMPAIGN, CLARK,
CLERMONT, CLINTON, COLUMBIANA,
COSHOCOTON, CRAWFORD, DARKE, DEFIANCE,
DELAWARE, ERIE, FAIRFIELD, FAYETTE,
FRANKLIN, FULTON, GALLIA, GREENE,
GUERNSEY, HAMILTON, HANCOCK, HARDIN,
HARRISON, HENRY, HIGHLAND, HOCKING,
HOLMES, HURON, JACKSON, JEFFERSON, KNOX,
LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS,
MADISON, MAHONING, MARION, MEDINA,
MEIGS, MERCER, MIAMI, MONROE,
MONTGOMERY, MORGAN, MORROW,
MUSKINGUM, NOBLE, OTTAWA, PAULDING,
PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE,
PUTNAM, RICHLAND, ROSS, SANDUSKY,
SCIOTO, SENECA, SHELBY, STARK, SUMMIT,
TRUMBULL, TUSCARAWAS, UNION, VAN WERT,
VINTON, WARREN, WASHINGTON, WAYNE,
WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

** Asphalt - Oil spray bar man when operating from cab shall receive \$0.20 cents per hour above their Basic Hourly Rate.

5 Journeymen to 1 Apprentice
per company/project

ADAMS, ALLEN, ASHLAND, ASHTABULA,
ATHENS, AUGLAIZE, BELMONT, BROWN,
BUTLER, CARROLL, CHAMPAIGN, CLARK,
CLERMONT, CLINTON, COLUMBIANA,
COSHOCOTON, CRAWFORD, DARKE, DEFIANCE,
DELAWARE, ERIE, FAIRFIELD, FAYETTE,
FRANKLIN, FULTON, GALLIA, GREENE,
GUERNSEY, HAMILTON, HANCOCK, HARDIN,
HARRISON, HENRY, HIGHLAND, HOCKING,
HOLMES, HURON, JACKSON, JEFFERSON, KNOX,
LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS,
MADISON, MAHONING, MARION, MEDINA,
MEIGS, MERCER, MIAMI, MONROE,
MONTGOMERY, MORGAN, MORROW,
MUSKINGUM, NOBLE, OTTAWA, PAULDING,
PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE,
PUTNAM, RICHLAND, ROSS, SANDUSKY,
SCIOTO, SENECA, SHELBY, STARK, SUMMIT,
TRUMBULL, TUSCARAWAS, UNION, VAN WERT,
VINTON, WARREN, WASHINGTON, WAYNE,
WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

** Asphalt - Oil spray bar man when operating from cab shall receive \$0.20 cents per hour above their Basic Hourly Rate.

J:\16-12B_Ridgewood E\5.0 Design (Work) Phase\STA\16128\roadway\sheets\16128GTO01-W.dgn 6/21/2018 9:46:11 AM william.croxton\ ODOTV8i_PDF_Full.pltcfgr ODOTV8i_Pen-ME.tbi IBI Group

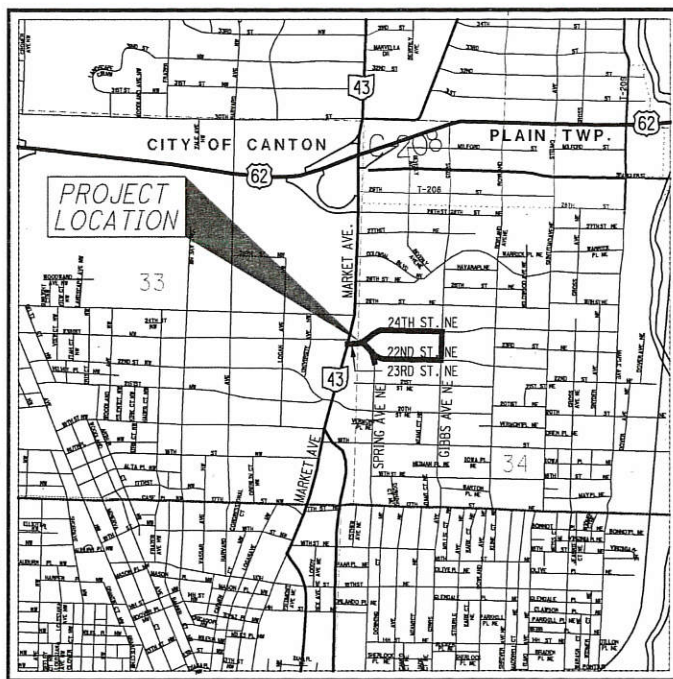
THE CITY OF CANTON WATER DEPARTMENT

RIDGEWOOD EAST - PHASE 1 PART 1: WATER MAIN REPLACEMENT TAG 553

INDEX OF SHEETS:

TITLE SHEET	1
TYPICAL SECTION	2
GENERAL SUMMARY	3
GENERAL NOTES	4-7
PLAN AND PROFILE SHEETS	8-16
MISCELLANEOUS DETAILS	17-21

CITY OF CANTON
STARK COUNTY, OHIO
JUNE 2018



LOCATION MAP
(NOT TO SCALE)



CANTON CITY OFFICIALS:

MAYOR THOMAS M. BERNABEI
DIRECTOR OF PUBLIC SERVICE JOHN M. HIGHMAN

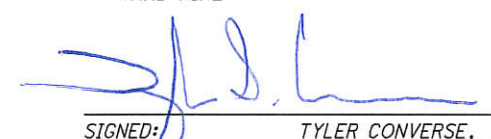
CANTON WATER DEPARTMENT SUPERINTENDENT TYLER S. CONVERSE

CANTON CITY ENGINEER DAN J. MOEGLIN, PE, SI

MEMBERS OF CANTON CITY COUNCIL:
COUNCIL PRESIDENT ALLEN SCHULMAN

MEMBERS-AT-LARGE
JAMES BABCOCK
CORY MINOR SMITH
BILL SMUCKLER

WARD ONE GREG HAWK
 WARD TWO NATE CHESTER III
 WARD THREE JASON SCAGLIONE
 WARD FOUR CHRIS SMITH
 WARD FIVE ROBERT FISHER
 WARD SIX KEVIN HALL
 WARD SEVEN JOHN MARIOL II
 WARD EIGHT EDMOND MACK
 WARD NINE FRANK MORRIS

SIGNED:  DATE: 7-12-18
TYLER CONVERSE,
CANTON WATER DEPARTMENT
SUPERINTENDENT

LEGEND

County Line	-----	Waterline (Ex)	---W---
Township Line	-----	Waterline (Pr)	---W---
Section Line	-----	Tree Line (Ex)	~~~~~
Corporation Line	----- or -----	Ownership Hook Symbol	∟, Example
Fence Line (Ex)	----- (Pr) -----	Property Line Symbol	∟, Example
Center Line	-----	Break Line Symbol	∟, Example
Right of Way (Ex)	----- Ex R/W -----	Tree (Pr)	☼, Tree (Ex) ☼, Shrub (Ex) ☼
Right of Way (Pr)	----- R/W -----	Tree (Remove)	☼, Shrub (Remove) ☼
Standard Highway Ease. (Ex)	----- Ex SH -----	Evergreen (Ex)	☼, Stump ☼
Temporary Right of Way	----- TMP -----	Evergreen (Remove)	☼, Stump (Remove) ☼
Channel Ease. (Pr)	----- CH -----	Wetland (Pr)	∟, Grass (Pr) ∟, Aerial Target ∟
Utility Ease. (Ex)	----- Ex U -----	Post (Ex)	○, Mailbox (Ex) ∟, Mailbox (Pr) ∟
Railroad	----- or -----	Light (Ex)	☼, Telephone Marker (Ex) TEL
Guardrail (Ex)	----- (Pr) -----	Fire Hydrant (Ex)	☼, Water Meter (Ex) ∟
Construction Limits	-----	Water Valve (Ex)	☼, Utility Valve Unknown (Ex.) ☼
Edge of Pavement (Ex)	-----	Telephone Pole (Ex)	☼, Power Pole (Ex) ☼
Edge of Pavement (Pr)	-----	Light Pole (Ex)	☼
Edge of Shoulder (Ex)	-----	Fire Hydrant (Pr)	☼, Water Valve (Pr) ☼
Edge of Shoulder (Pr)	-----		

CANTON WATER DEPARTMENT
HYDRANT AND VALVE NUMBERS (H --- , V ---)

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

CALL
1-800-362-2764
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS UNDERGROUND
PROTECTION SERVICE CALL: **1-800-925-0988**

PLAN PREPARED BY:

IBI IBI GROUP
4150 Belden Village St., Suite 104
Canton, OH 44718 USA
Contact: William L. Croxton IV, P.E.
Phone: 330-491-9000
Fax: 330-491-9001

ENGINEERS SEAL:



FEDERAL PROJECT NO. NONE
 PID NO. NONE
 CONSTRUCTION PROJECT NO. NONE
 RAILROAD INVOLVEMENT NONE
 RIDGEWOOD EAST PH.1
 PART 1: WATER
 1/21

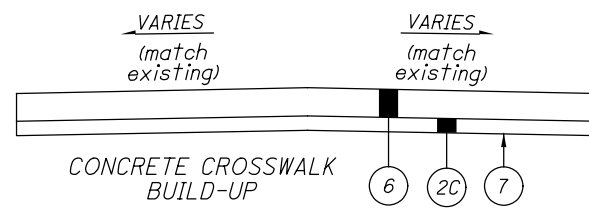
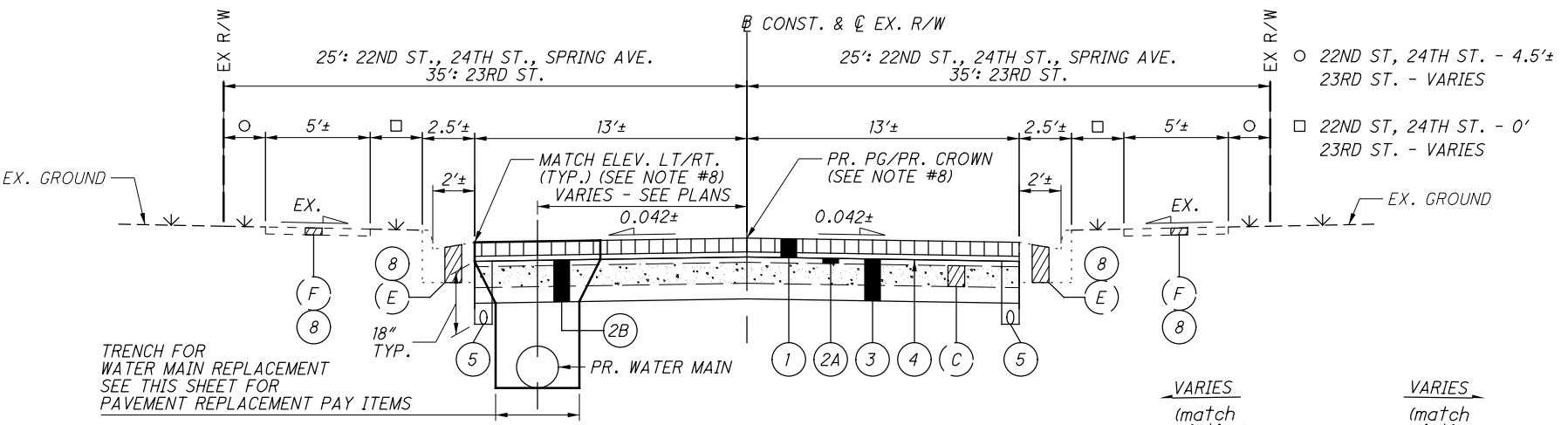
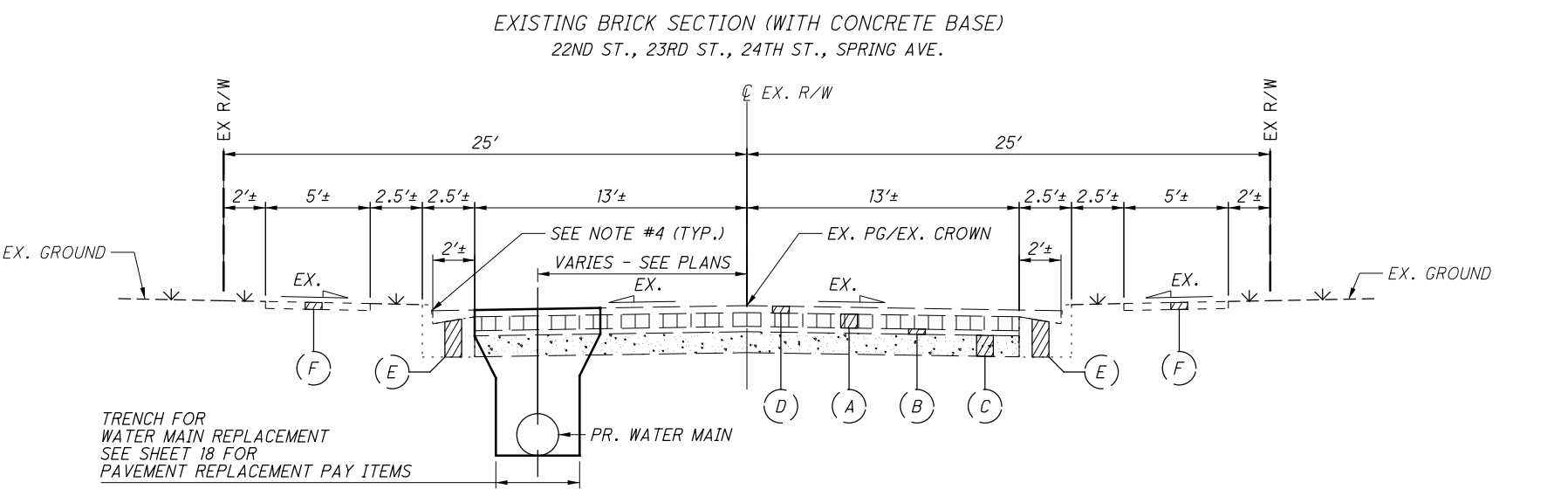
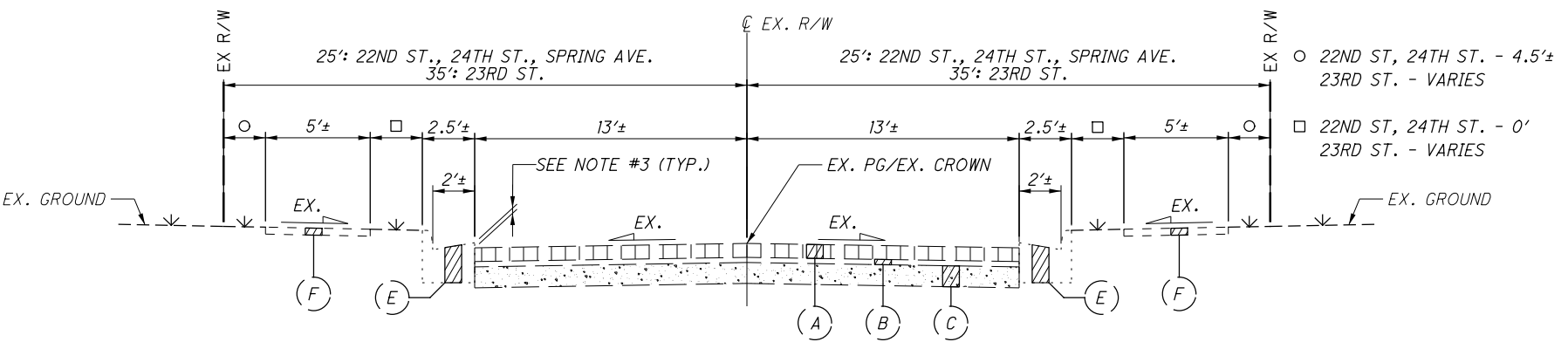
J:\16-128_RidgeWood_E\5.0_Design (Work) Phase\STA\16128\roadway\sheets\16128GY001-W.dgn 6/21/2018 9:48:10 AM william.croxton ODOTV81_PDF_Half.pltcfgr ODOTV81_Pen-ME.tbl IBI Group

CALCULATED WLC CHECKED RMH
TYPICAL SECTIONS
RIDGEWOOD EAST PH.1
PART 1: WATER
 2
 21

- PROPOSED LEGEND (SEE NOTE #1)**
- 1 ITEM SPECIAL - BRICK PAVEMENT RESTORATION (SEE NOTE #6)
 - 2A ITEM 304 - AGGREGATE BASE (1.5" AVG.) (SEE NOTE #7)
 - 2B ITEM 304 - AGGREGATE BASE (12" (COMPACTED IN TWO 6" LIFTS)
 - 2C ITEM 304 - AGGREGATE BASE (6")
 - 3 ITEM 206 - CEMENT (APPLIED @ 6% PER 110 LB/CF SOIL)
 ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
 ITEM 206 - CURING COAT
 ITEM 206 - MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS
 - 4 ITEM 204 - PROOF ROLLING (SEE NOTE #5)
 - 5 ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
 - 6 ITEM 452 - 10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1
 - 7 ITEM 204 - SUBGRADE COMPACTION
 - 8 ITEM 202-WALK REMOVED (SEE NOTE #7)
 ITEM 202-CURB AND GUTTER REMOVED (SEE NOTE #7)
 ITEM 608-4" CONCRETE WALK (SEE NOTE #7)
 ITEM 609-COMBINATION CURB AND GUTTER, TYPE 2 (SEE NOTE #7)

- EXISTING LEGEND (SEE NOTE #1 AND NOTE #2)**
- (A) EX. HISTORIC BRICK PAVERS (4"±)
 - (B) EX. SAND CUSHION (1"±)
 - (C) EX. CONCRETE BASE (6"±)
 - (D) EX. ASPHALT CONCRETE (3"±)
 - (E) EX. CONCRETE CURB AND GUTTER (5"± CURB HEIGHT)
 - (F) EX. CONCRETE WALK (5"±)

- TYPICAL SECTION NOTES:**
- GENERAL - VERTICAL SCALE FOR PAVEMENT BUILDUPS HAS BEEN EXAGGERATED FOR CLARITY. TRENCH DEPTH NOT TO SCALE
- #1. SEE PLAN SHEETS FOR LIMITS OF PART 1, PART 2, TRENCHES, AND OTHER PAVEMENT WORK.
 - #2. EXISTING PAVEMENT COMPOSITION AND BUILDUP ARE AVERAGES BASED ON EXISTING PLANS. NO PAVEMENT CORES WERE TAKEN. BASED ON CITY'S PAST EXPERIENCE, THE 6" CONCRETE BASE HAS DETERIORATED OVER TIME AND HAS REDUCED TO AN AGGREGATE BASE MATERIAL.
 - #3. ELEVATION DIFFERENTIAL (VARIES 0"-3") BETWEEN EDGE OF GUTTER AND PAVEMENT DUE TO SETTLING OF BRICK PAVEMENT AND BASE.
 - #4. CURB HEIGHT REDUCTION (VARIES 0"-3") DUE TO ASPHALT PAVING OVER EXISTING GUTTERS.
 - #5. PROOF ROLLING SHALL BE PERFORMED AFTER SUBGRADE STABILIZATION PER ODOT GEOTECHNICAL BULLETIN GB-1
 - #6. SEE SHEET 7A FOR ADDITIONAL INFORMATION AND DESCRIPTION OF PAY ITEMS INCLUDED. SEE PART 1 PLAN SHEETS FOR LIMITS ASSOCIATED WITH WATER MAIN REPLACEMENT. SEE PART 2 PLAN SHEETS FOR LIMITS ASSOCIATED WITH ROADWAY RECONSTRUCTION.
 - #7. CONTINGENCY ITEMS - AS DIRECTED BY ENGINEER - SEE SHEET 7
 - #8. PROPOSED PROFILE GRADE IS BASED ON EXTENSION OF CROSS SLOPE OF PROPOSED BRICK PAVEMENT FROM TOP EDGE OF EXISTING CURB AND GUTTER.



HORIZONTAL CONTROL - SECONDARY

POINT	ELEV.	NORTHING	EASTING	STATION	OFFSET	ROADWAY	DESCRIPTION
CP #1	1106.10	422954.031	2282424.905	201+86.56	49.68' RT.	22ND ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #2	1127.28	422879.397	2283426.558	399+66.86	25.15' RT.	GIBBS AVE.	30X5/8 REBAR SET W/GPD RED CAP
CP #3	1133.90	423348.273	2283389.254	311+18.59	24.35' LT.	24TH ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #4	1109.02	423322.422	2282459.512	301+93.24	21.82' LT.	24TH ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #5	1106.04	423123.150	2282304.522	102+07.94	27.25' RT.	23RD ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #6	1109.23	422950.998	2282825.888	205+67.03	20.84' LT.	22ND ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #7	1105.65	423223.701	2282076.467	500+60.27	36.49' LT.	MARKET AVE.	30X5/8 REBAR SET W/GPD RED CAP

NOTE: ALL NORTHING AND EASTING COORDINATES ARE GROUND COORDINATES

VERTICAL CONTROL - BENCHMARKS

POINT	ELEV.	NORTHING	EASTING	STATION	OFFSET	ROADWAY	DESCRIPTION
BM #1	1122.54	423415.957	2282847.113	305+74.71	76.23' LT.	24TH ST.	SW COR OF 1ST STEP OF HN815
BM #2	1115.57	423000.754	2282976.024	207+15.65	74.95' LT.	22ND ST.	SW COR OF 1ST STEP OF HN907
BM #3	1135.49	423304.934	2283455.694	311+86.27	17.03' RT.	24TH ST.	BRASS DISK CANTON BENCHMARK
BM #4	1106.70	423058.123	2282427.453	201+11.09	16.09' LT.	22ND ST.	CHISLED BOX W/X ON CURB

NOTE: ALL NORTHING AND EASTING COORDINATES ARE GROUND COORDINATES

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GG001-W.dgn 6/21/2018 9:48:10 AM william.croxton" ODOTV81_PDF_Half.pltcfgr ODOTV81_Pen-ME.tbl IBI Group

ITEM	TOTAL	ADBE TOTAL	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
ROADWAY						
202	27		27	SY	PAVEMENT REMOVED	
202		125	125	SF	WALK REMOVED	
202		50	50	FT	CURB AND GUTTER REMOVED	
204	27		27	SY	SUBGRADE COMPACTION	
204	3		3	HOUR	PROOF ROLLING	
206	118		118	TON	CEMENT	
206	3970		3970	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	
206	3970		3970	SY	CURING COAT	
206	LS		LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
608		125	125	SF	4" CONCRETE WALK	
690	3970		3970	SY	SPECIAL - BRICK PAVEMENT RESTORATION	7A
DRAINAGE						
832	5000		5000	EACH	EROSION CONTROL	
PAVEMENT						
301	80		80	CY	ASPHALT CONCRETE BASE, PG64-22	
304	545	166	711	CY	AGGREGATE BASE	
407	37		37	GAL	TACK COAT	
441	21		21	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
609		50	50	FT	COMBINATION CURB AND GUTTER, TYPE 2	
WATER WORKS						
638	2500		2500	FT	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS	
638	320		320	FT	8" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS	
638	555		555	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, PUSH-ON JOINTS AND FITTINGS	
638	12		12	EACH	6" GATE VALVE	
638	2		2	EACH	8" GATE VALVE	
638	4		4	EACH	12" GATE VALVE	
638	21		21	EACH	1" WATER SERVICE CONNECTION, SHORT SIDE (COMPLETE) *	
638	21		21	EACH	1" WATER SERVICE CONNECTION, LONG SIDE (COMPLETE) *	
638	1		1	EACH	1" TEMPORARY WATER SERVICE CONNECTION, SHORT SIDE (COMPLETE) *	
638	1		1	EACH	1" TEMPORARY WATER SERVICE CONNECTION, LONG SIDE (COMPLETE) *	
638	3		3	EACH	6" 11.25 DEG. BEND	
638	23		23	EACH	6" 22.5 DEG. BEND	
638	1		1	EACH	8" 11.25 DEG. BEND	
638	4		4	EACH	12" 22.5 DEG. BEND	
638	6		6	EACH	12" 45 DEG. BEND	
638	3		3	EACH	6" CUT-IN SLEEVE	
638	2		2	EACH	12" CUT-IN SLEEVE	
638	8		8	EACH	6" PLUG	
638	2		2	EACH	8" PLUG	
638	2		2	EACH	12" PLUG	
638	1		1	EACH	6" x 6" TEE	
638	1		1	EACH	8" x 6" TEE	
638	2		2	EACH	12" x 6" CROSS	
638	1		1	EACH	18" x 8" TAPPING SLEEVE AND VALVE	
638	6		6	EACH	FIRE HYDRANT ASSEMBLY	
638	4		4	EACH	FIRE HYDRANT REMOVED	
638	11		11	EACH	ABANDON EXISTING VALVE	
638	1		1	EACH	REMOVE EXISTING VALVE	
INCIDENTALS						
614			LS		MAINTAINING TRAFFIC	
623			LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
624			LS		MOBILIZATION	

CALCULATED
WLC
CHECKED
RMH

GENERAL SUMMARY

**RIDGEWOOD EAST PH.1
PART 1: WATER**

NOTES:
(ADBE) = "AS DIRECTED BY ENGINEER"
* QUANTITY IS FOR ESTIMATING PURPOSE ONLY.
THE FINAL QUANTITY MAY CHANGE BASED UPON GENERAL NOTE VIII: WATER MAIN/SERVICES

1. PRECONSTRUCTION INCIDENTALS:**(A) PROJECT SPECIFICATIONS/REQUIREMENTS:**

ALL WORK REQUIRED TO COMPLETE THIS IMPROVEMENT SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS/REQUIREMENTS OF THE CITY OF CANTON AND THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, EXCEPT AS HEREIN AMENDED. IN THE CASE OF A CONFLICT BETWEEN THE CITY OF CANTON AND THE OHIO DEPARTMENT OF TRANSPORTATIONSPECIFICATIONS/REQUIREMENTS, THE CITY OF CANTONREQUIREMENTS WILL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

THE DEVELOPER/CONTRACTOR SHALL COMPLY WITH THE CITY OF CANTON SUPPLEMENTAL SPECIFICATION 01-00 PROJECT DOCUMENTATION AND SUBMITTAL REQUIREMENTS.

(B) ADMINISTRATIVE REQUIREMENTS:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COMPLYING WITH ALL THE ADMINISTRATIVE DUTIES HEREIN CONTAINED.

THE DEVELOPER/CONTRACTOR SHALL DESIGNATE TO THE CITY AN EMPLOYEE RESPONSIBLE FOR CORRESPONDENCE, NOTIFICATIONS, AND SUBMITTALS PERTINENT TO THE PROJECT.

(C) PRECONSTRUCTION MEETING:

A PRECONSTRUCTION MEETING WITH THE DEVELOPER, CONTRACTOR, REPRESENTATIVES OF ALL UTILITY COMPANIES, THE CITY OF CANTON ENGINEERING DEPARTMENT AND THE CITY OF CANTON WATER DEPARTMENT IS REQUIRED FOR THIS PROJECT PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

FOR SUBDIVISION DEVELOPMENTS, THE DEVELOPER SHALL CONTACT THE CITY ENGINEER'S OFFICE TO ARRANGE A MEETING DATE. THE DEVELOPER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

FOR CITY GENERAL PROJECTS, THE CITY ENGINEER WILL CONTACT THE CONTRACTOR TO ARRANGE A MEETING DATE. THE CITY ENGINEER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

IF THE PROPOSED PROJECT LAND-DISTURBANCE AREA IS ONE (1) OR MORE ACRES, A SEPARATE PRE-CONSTRUCTION MEETING IS ALSO REQUIRED. THIS MEETING SHALL OCCUR ON-SITE BETWEEN THE CONTRACTOR AND THE STARK SOIL & WATER CONSERVATION DISTRICT (SWCD). THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING THIS MEETING. NO LAND-DISTURBANCE ACTIVITIES SHALL START UNTIL SAID MEETING HAS OCCURRED AND APPROVAL HAS BEEN GRANTED BY STARK SWCD.

(D) PROJECT SAFETY:

THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT THE PROJECT SITE AT ALL TIMES. THE CONTRACTOR SHALL PROPERLY SUPPORT AND/OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL O.S.H.A. REGULATIONS. APPROPRIATE BARRICADES, WARNING LIGHTS, SIGNS FENCING, ETC. SHALL BE ERECTED AROUND THE CONSTRUCTION AREA DURING ALL NON-WORKING HOURS TO ALERT PERSONS OF THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS BY UNAUTHORIZED PERSONNEL TO THE CONSTRUCTION SITE/AREA. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE GENERAL PUBLIC AS WELL AS ALL CONSTRUCTION PERSONNEL. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE OF DEBRIS (MUD, STONE, ETC.) AT ALL TIMES. THE CONTRACTOR SHALL ALERT ALL LOCAL EMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGINNING AND CONSTRUCTION ACTIVITY. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

(E) UNDERGROUND UTILITIES:

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS, AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT; HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIFY THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.

(F) UTILITY NOTIFICATION:

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OPERATIONS ON THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER, THE REGISTERED UTILITY PROTECTION AGENCY/SERVICE, AND THE OWNERS OF ANY OTHER UTILITIES (PUBLIC AND/OR PRIVATE) THAT MAY HAVE UTILITY LINES OR FACILITIES WITHIN THE VICINITY OF THIS PROJECT BUT WHO ARE NOT MEMBERS OF THE REGISTERED UTILITY PROTECTION SERVICE. THE OWNERS OF ANY UNDERGROUND UTILITY FACILITY SHALL, WITHIN 48 HOURS AFTER NOTICE IS RECEIVED, EXCLUDING SATURDAYS, SUNDAYS AND OTHER LEGAL HOLIDAYS; STAKE, MARK OR OTHERWISE DESIGNATE THE EXISTENCE AND/OR LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING AND/OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO WORKING DAYS AHEAD OF THE PLANNED CONSTRUCTION.

OHIO UTILITIES PROTECTION SERVICE: 1-800-382-2784 (CONTACT NON-MEMBERS DIRECTLY).

THE PRIMARY UTILITIES WITHIN THE CITY OF CANTON AREA:

AMERICAN ELECTRIC POWER ATTN: RAY ZITNEY 301 CLEVELAND AVE. SW CANTON, OH 44720 OFFICE: 330-438-7718	DOMINION ENERGY ATTN: BILL SNYDER 320 SPRINGSIDE DR., SUITE 320 AKRON, OH 44333 330-664-2781
--	--

AT&T ATTN: CINDY ZUCHEGNO 50 W. BOWERY ST., 4TH FLOOR AKRON, OH 44308 330-384-3561	SPECTRUM CABLE ATTN: JUSTIN FREUDEMAN 5520 WHIPPLE AVE. NW NORTH CANTON, OH 44720 330-492-4449
--	--

CANTON CITY WATER DEPARTMENT ATTN: BRENT BURRIER 2664 HARRISBURG RD. NW CANTON, OH 44705 330-438-6569	CITY OF CANTON ENGINEER'S OFFICE ATTN: DAN MOEGLIN 2436 30TH ST. NE CANTON, OH 44705 330-489-3381
---	---

NOTE: DOMINION ENERGY'S NATURAL GAS LINES LOCATED UNDER THE PAVEMENT WILL BE ABANDONED/RELOCATED BY 9/1/2018.

THE CITY ENGINEER'S OFFICE IS TO BE CONTACTED DIRECTLY FOR SANITARY AND STORM SEWER AND TRAFFIC INTERCONNECT FACILITIES LOCATION: 330-489-3381

(G) EXPLORATORY BORINGS:

EXPLORATORY SOIL BORING INFORMATION IS NOT THE RESPONSIBILITY OF THE CITY OF CANTON. IT IS THE DEVELOPER/CONTRACTOR RESPONSIBILITY TO REVIEW ANY AND ALL INFORMATION AVAILABLE. IF DEVELOPER/CONTRACTOR REQUESTS TO DRILL AND OR EXCAVATE WITHIN THE CITY'S R/W, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THIS WORK. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY NOTIFICATION, AS SPECIFIED, ALL TRAFFIC CONTROL, PREMIUM BACKFILL, AND COMPACTION AND RESTORATION, AS NECESSARY.

(H) CONTINGENCY QUANTITIES:

WHEN SPECIFIED ON PLANS OR SPECIFICATIONS, CONTINGENCY QUANTITIES ARE TO BE PERFORMED ONLY UNDER DIRECTION OF THE CITY ENGINEER. THE DEVELOPER/CONTRACTOR SHALL NOT ORDER ANY CONTINGENCY MATERIAL OR PERFORM ANY WORK UNTIL DIRECTED BY THE ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE DEVELOPER/CONTRACTOR AND THE ENGINEER.

(I) PRE-CONSTRUCTION VIDEO RECORDING

THE CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION AUDIO-VISUAL RECORDING OF THE EXISTING CONDITIONS WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION TO SERVE AS A RECORD OF PRE-CONSTRUCTION CONDITIONS.

THE VIDEO RECORDING SHALL BE OF PROFESSIONAL QUALITY THAT WILL CLEARLY LOG AN ACCURATE VISUAL DESCRIPTION OF THE EXISTING CONDITIONS. THE AUDIO PORTION OF THE RECORDING SHALL PRODUCE THE COMMENTARY OF THE OPERATOR WITH PROPER VOLUME, CLARITY, AND BE FREE FROM DISTORTION. COMMENTARY SHALL INCLUDE THE DATE AND TIME, STREET NAME, LOCATION, INTERSECTING STREETS AS THEY ARE CROSSED AND OCCASIONAL ADDRESSES ALONG THE STREET; COMMENTS ON THE CONDITIONS OF THE PAVEMENT AND OR HOMES AND DRIVEWAYS AT THE TIME OF THE RECORDING AND ANY OTHER PERTINENT ITEMS.

THE FINAL RECORDING SHALL BE TRANSFERRED TO A DVD WHEN COMPLETE. THE CONTRACTOR SHALL SUBMIT THE FINAL DVD TO THE CITY OF CANTON PRIOR TO CONSTRUCTION.

THE PRE-CONSTRUCTION VIDEO RECORDING WILL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT COST.

II. CONSTRUCTION INCIDENTALS**(A) PLAN DISCREPANCIES:**

ANY DISCREPANCIES FROM THE PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT THE APPROPRIATE ADJUSTMENTS IN ALIGNMENT AND/OR GRADE MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE SAME.

FAILURE BY THE DEVELOPER/CONTRACTOR TO VERIFY AND/OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.

(B) VERIFICATION OF UNDERGROUND UTILITIES:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACILITIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATORY EXCAVATIONS TO BE PERFORMED BY THE CONTRACTOR FOR WHICH HE WILL NOT BE REIMBURSED. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITS WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO INSTALL THE PROPOSED CONDUIT.

(C) PROTECTION OF UTILITIES:

THE DEVELOPER/CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AS APPROVED BY THE OWNERS OF THE UTILITY AND THE CITY ENGINEER.

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO CLOSELY COORDINATE THEIR WORK WITH ALL UTILITY COMPANIES; ANY POTENTIAL DELAYS WILL NOT BE THE RESPONSIBILITY OF THE CITY.

THE CONTRACTOR SHOULD EXPECT AT A MINIMUM ONE SANITARY SEWER LATERAL, ONE ROOF DRAIN, ONE WATER SERVICE, AND ONE GAS SERVICE FOR EACH LOT. ANY OF THE ABOVE UTILITIES DAMAGED DUE TO THE CONTRACTOR'S WORK SHALL BE RESTORED TO THE UTILITY OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

(D) MAINTENANCE OF UTILITY SERVICES:

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UTILITY SERVICES AT ALL TIMES.

SHOULD THE CONTRACTOR'S ACTIVITIES RESULT IN A BREAK IN THE EXISTING WATERLINE AND/OR SERVICES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR THE BREAK AT HIS EXPENSE AND WILL NOT BE COMPENSATED FOR ANY ASSOCIATED DOWN TIME.

WATER SERVICE MAY BE INTERRUPTED FOR LIMITED PERIODS (4 HOURS MAXIMUM) DURING CONNECTION BETWEEN EXISTING WATER LINES AND RELOCATED/NEW WATER MAINS WHICH CANNOT BE COMPLETED OTHERWISE. NO SHUT DOWN SHALL OCCUR WITHOUT WRITTEN PERMISSION OF THE CITY OF CANTON WATER DEPARTMENT. PROPERTY OWNERS AFFECTED BY APPROVED INTERRUPTED SERVICE SHALL BE NOTIFIED 48 HOURS IN ADVANCE BY THE CONTRACTOR.

STORM SEWER AND SANITARY SEWER SERVICES SHALL BE MAINTAINED WITHOUT INTERRUPTION, UNLESS APPROVED BY THE CITY ENGINEER.

IN THE EVENT THAT CONSTRUCTION DISRUPTS THE FLOW OF A SANITARY SEWER, THE CONTRACTOR SHALL IMMEDIATELY RECTIFY THE DISRUPTED SEWER BY EITHER TEMPORARILY FLUMING WITH MATERIALS ACCEPTABLE TO THE ENGINEER OR BYPASSING WITH PUMPS. COST OF MAINTAINING AND REPAIR OF SANITARY SEWERS DISTURBED BY CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

(E) CONSTRUCTION NOISE:

CONSTRUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT PROJECT SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH ADJOINING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED BY THE CITY ENGINEER. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M. UNLESS AUTHORIZED BY THE CITY ENGINEER.

(F) OPEN TRENCH CONSTRUCTION:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION/TRENCHING PRACTICES FOR THE PROPOSED IMPROVEMENT, OR AS FURTHER SHOWN ON THE PLANS AND SPECIFICATIONS.

THE DEVELOPER/CONTRACTOR SHALL FOLLOW ALL APPLICABLE LOCAL AND STATE SAFETY REGULATIONS, INCLUDING CODE OF FEDERAL REGULATIONS, PART 1926 (SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION), SUBPART P (EXCAVATIONS), FOR ALL APPLICABLE REQUIREMENTS AND RESPONSIBILITIES.

PRIOR TO COMMENCING CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF THE PROJECT'S ASSIGNED "COMPETENT PERSON" IN OSHA EXCAVATION STANDARDS.

(G) TRENCH CLOSING AND TEMPORARY TOPPING:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NECESSARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL OPEN TRENCHES, WHEN WORK IS EITHER COMPLETED AT THE END OF THE DAY OR SUSPENDED FOR ANY OTHER REASON.

FOR TRENCH SURFACE REQUIREMENTS, REFER TO NOTE #4 ON CITY STANDARD DRAWING NO. 19

(H) DUST CONTROL:

THE DEVELOPER/CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL

(I) TESTING OF UTILITIES:

ALL NEWLY CONSTRUCTED WATERLINES AND SANITARY SEWERS (INCLUDING LATERALS) MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE STANDARDS (AWWA, ETC.) PER THE OHIO ENVIRONMENTAL PROTECTION AGENCY, AND PER THE REQUIREMENTS OF THE CITY OF CANTON WATER AND ENGINEERING DEPARTMENTS.

SANITARY SEWERS SHALL BE TESTED BY CONTRACTOR IN ACCORDANCE WITH THE CITY OF CANTON'S SUPPLEMENTAL SPECIFICATIONS:

02-00 TESTING FOR EXCESSIVE DEFLECTION FOR NON-PRESSURE THERMOPLASTIC SEWER PIPE.

03-00 TESTING PRACTICES FOR LOW-PRESSURE AIR TESTING OF INSTALLED, NON-PRESURE, THERMOPLASTIC SEWER PIPE.

04-01 STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE TEST.

SANITARY AND STORM SEWERS CONSTRUCTED WITH THIS PROJECT SHALL BE TELEVISED BY THE CONTRACTOR ONLY WHEN A PAY ITEM IS PROVIDED IN ACCORDANCE WITH CITY OF CANTON'S SUPPLEMENTAL SPECIFICATION:

05-01 SEWER TELEVISION INSPECTION AND DOCUMENTATION PROCEDURE.

NOTE: THE CITY OF CANTON WILL PERFORM CCTV UPON COMPLETION OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ANY IDENTIFIED DEFECTS ASSOCIATED WITH PROPOSED WORK.

(J) PRESERVATION AND RESTORATION OF DISTURBED FEATURES:

EXISTING DRIVES, BERMS, LAWNS, PAVEMENTS, CURBS, SIDEWALKS, SIGNS, MAILBOXES, FENCES, RETAINING WALLS, LANDSCAPING ITEMS, OR OTHER APPURTENANCES DISTURBED DURING CONSTRUCTION BUT NOT SPECIFICALLY DESIGNATED FOR REMOVAL/REPLACEMENT SHALL BE RESTORED BY THE DEVELOPER/CONTRACTOR AT HIS EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO DISTURBANCE AND TO THE COMPLETE SATISFACTION OF THE CITY ENGINEER.

RESTORATION OF EXISTING ROADWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, TOWNSHIP, COUNTY, AND/OR OTHER AGENCIES HAVING AUTHORITY. COST FOR THE RESTORATION OF THESE ITEMS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR, UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIFICATIONS. NO PUBLIC ROADWAY SHALL BE DISTURBED WITHOUT PRIOR WRITTEN APPROVAL FROM THE GOVERNING AGENCY AND ACQUISITION OF NECESSARY PERMITS.

(K) SALVAGED CASTINGS:

WHEN DIRECTED BY THE CITY ENGINEER, ALL METAL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED ON SITE OR DELIVERED TO A LOCATION DESIGNATED BY THE CITY ENGINEER.

(L) PLUG EXISTING CONDUIT:

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT TO BE ABANDONED.

BULKHEADS SHALL CONSIST OF BRICK AND/OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PAYMENT FOR PLUGGING OF EXISTING CONDUIT FOR ABANDONMENT SHALL BE INCLUDED IN THE UNIT BID OF THE VARIOUS ITEMS OF THE PROJECT.

(M) CONSTRUCTION LAYOUT:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT UTILIZING PERTINENT PLAN DATA. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR STAKING HORIZONTAL OR VERTICAL CONTROL CONSTRUCTION LAYOUT SHALL BE IN ACCORDANCE WITH ODOT 623 CONSTRUCTION LAYOUT STAKES.

AT THE CITY ENGINEER'S REQUEST, THE CONTRACTOR SHALL MAKE AVAILABLE ALL SURVEY FIELD NOTES FOR REVIEW.

(N) EXISTING MONUMENTATION:

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND/OR ANY TYPE OF LAND MONUMENT. THE CONTRACTOR SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. THE CONTRACTOR SHALL REPLACE/RESET ANY DISTURBED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

(O) ELEVATION DATUM:

ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.

(P) DEWATERING OPERATIONS:

WHEN DEEMED NECESSARY, THE DEVELOPER/CONTRACTOR MAY INSTALL DEWATERING EQUIPMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE PROPOSED LOCATION OF WELL POINTS, HEADER PIPE, ELECTRICAL DISTRIBUTION, GENERATORS AND DISCHARGE PIPES, ETC. SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS FOR THE INSTALLATION AND SUBSEQUENT REMOVAL OF DEWATERING EQUIPMENT AS WELL AS PROPER WATER DISCHARGE PROCEDURES AS MAY BE REQUIRED PER STATE AND LOCAL GOVERNING AGENCIES.

INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING GROUNDING AND PROTECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.

DEVELOPER/CONTRACTOR SHALL PROVIDE ALL COMBUSTIBLE ENGINE DRIVEN GENERATORS WITH "HOSPITAL GRADE" MUFFLERS. MUFFLERS SHALL BE RATED, AT A MAXIMUM OF 67 dB AT 23 FEET AWAY RUNNING FULL LOAD.

(Q) INSPECTION:

FOLLOWING THE PRE-CONSTRUCTION MEETING(S) AND ESTABLISHMENT OF AN APPROVED SCHEDULE, THE CONTRACTOR SHALL GIVE A MINIMUM 48 HOUR NOTICE BEFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY INFORMED OF HIS/HER CONSTRUCTION SCHEDULE. ALL WORK REQUIRED FOR THIS IMPROVEMENT SHALL BE SUBJECT TO INSPECTION BY THE CITY OF CANTON OR THEIR DESIGNATED REPRESENTATIVE. NO WORK SHALL BE PERFORMED WITHOUT AN AUTHORIZED INSPECTOR PRESENT, UNLESS OTHERWISE APPROVED.

(R) FIELD OFFICE:

IF A PAY ITEM IS PROVIDED, THE DEVELOPER/CONTRACTOR SHALL PROVIDE A FIELD OFFICE IN ACCORDANCE WITH ODOT 619. THE FIELD OFFICE SHALL BE TYPE 'A', UNLESS OTHERWISE SPECIFIED.

III. EARTHWORK I SITE WORK:

(A) EASEMENTS AND RIGHT-OF-WAY:

THE DEVELOPER/CONTRACTOR SHALL STAY WITHIN THE DESIGNATED PROPERTIES, EASEMENTS, AND/OR RIGHT-OF-WAY PROVIDED FOR THE PROJECT AT ALL TIMES. NO MATERIAL SHALL BE STORED NOR ANY WORK PERFORMED ON PRIVATE PROPERTY UNLESS OTHERWISE APPROVED. DISTURBANCE OF EXISTING FEATURES AND/OR IMPROVEMENTS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND AS APPROVED BY THE CITY ENGINEER/PROPERTY OWNER.

(B) SUITABILITY OF SITE:

THE CITY OF CANTON SHALL NOT BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE DEVELOPER/CONTRACTOR MUST APPRAISE THEMSELVES OF ANY EXISTING SITE CONDITIONS WHICH MAY AFFECT THEIR BID OR THE PERFORMANCE OF THE REQUIRED WORK. THE DEVELOPER/CONTRACTOR SHALL PERFORM ANY INVESTIGATIONS AND/OR TESTING NECESSARY TO ADEQUATELY DETERMINE/ESTIMATE TO THEIR SATISFACTION ALL SITE CONDITIONS WHICH COULD AFFECT THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE, BUT NOT BE LIMITED TO, UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, ETC.

(C) REMOVAL/REPLACEMENT OF UNSUITABLE MATERIAL:

THE DEVELOPER/CONTRACTOR SHALL UNDERCUT AND REPLACE UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF THE PROPOSED UTILITIES AND ROADWAY IN ACCORDANCE WITH CITY STANDARD DRAWING NO. 19

IV. ROADWAY / DRIVE APPROACHES / WALK / CURB

(A) PAVEMENT STANDARDS:

PAVEMENTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE CITY STANDARD DRAWINGS AND SPECIFICATIONS (LISTED BELOW) AND ODOT SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

CITY STANDARD DRAWING NO.:

DRIVEWAYS, CURBS, AND PAVEMENT:

#33 "WHEELCHAIR RAMP"

#34 "CROSSWALK AND PAVEMENT TRANSITION"

#41 "ROADWAY BRICK AND CROSSWALK PAVEMENT DETAILS"

CITY SPECIFICATIONS:

"CITY OF CANTON SPECIFICATIONS FOR THE CONSTRUCTION, REPAIR, AND REPLACEMENT OF SIDEWALKS, CURBS, AND DRIVEWAYS"

(B) RESTRICTED WORK SCHEDULE:

NO CONCRETE FINISH WORK OR PERMANENT ASPHALT SHALL BE PLACED FROM NOVEMBER 15TH TO APRIL 15TH UNLESS WRITTEN APPROVAL IS GRANTED BY THE CITY ENGINEER.

(C) ASPHALT/CONCRETE:

IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF ASPHALT OR CONCRETE. WORK SHALL NOT PROCEED UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE CITY ENGINEER.

V. SANITARY SEWERS / STORM SEWERS

(A) SEWER STANDARDS:

ALL SANITARY/STORM SEWER CONDUITS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO APPLICABLE CITY STANDARD DRAWINGS AND SPECIFICATIONS (LISTED BELOW) AND ODOT SPECIFICATIONS EFFECTIVE AT THE TIME OF CONSTRUCTION, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

CITY STANDARD DRAWING NO.:

CATCH BASINS:

#1 "CURB INLET CATCH BASIN"

- CATCH BASIN, MISC.: CITY OF CANTON CB#1

CONDUITS AND TRENCHES:

#19 "UTILITY TRENCH REQUIREMENTS"

VI. STORM WATER POLLUTION PREVENTION:

AN EPA NPDES CONSTRUCTION STORM WATER PERMIT AND SWP3 IS NOT REQUIRED. HOWEVER, THE DEVELOPER/ CONTRACTOR SHALL STILL ENSURE THAT APPROPRIATE PRACTICES ARE IN PLACE TO PROVIDE CONSTRUCTION RUNOFF AND EROSION AND SEDIMENT CONTROLS WITHIN THE PROJECT LIMITS. SUCH PRACTICES MAY INCLUDE THE USE OF SILT FENCE, STORM DRAIN INLET PROTECTION, JUTE MATTING, TEMPORARY SEEDING, MULCHING, CHECK DAMS, CONSTRUCTION ENTRANCES, CONCRETE WASHOUT AREAS, ETC. ALL PRACTICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES' RAINWATER AND LAND DEVELOPMENT MANUAL, AS APPLICABLE.

EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL PRACTICES AND WILL BE HELD RESPONSIBLE FOR ADDRESSING ANY ON- OR OFF-SITE EROSION/SEDIMENT ISSUES RELATED TO THE PROJECT. THE OWNER/DEVELOPER/CONTRACTOR SHALL ABIDE BY ALL ORDERS ISSUED BY THE CITY PURSUANT TO INSPECTION OF THE PROJECT SITE.

VII. TRAFFIC:

(A) MAINTAINING TRAFFIC:

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO AND THROUGH THE PROJECT AS DESCRIBED BELOW AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION MANUAL OF CONSTRUCTION AND MATERIALS SPECIFICATIONS ITEM 614 MAINTAINING TRAFFIC. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL SIGNS, FLAGS, FLAGMEN, WATCHMEN, BARRICADES, SIGN SUPPORTS, CONES, BARRELS, AND INCIDENTALS IN CONFORMANCE WITH THE MOST RECENT REVISIONS OF THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. INTERFERENCE WITH VEHICULAR TRAFFIC SHALL BE KEPT TO A MINIMUM AT ALL TIMES. ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE PROTECTED WITH DRUMS, BARRICADES, OR BARRIERS. ACCESS SHALL BE MAINTAINED AT ALL TIMES FOR EMERGENCY AND FIRE DEPARTMENT VEHICLES.

ANY TEMPORARY ROADWAY CLOSING MUST BE APPROVED IN WRITING BY THE CITY TRAFFIC ENGINEER AND ANY OTHER PUBLIC AGENCY HAVING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEER AT LEAST 72 HOURS IN ADVANCE OF ANY SUCH CLOSINGS FOR PUBLICATION AND EMERGENCY AGENCY NOTIFICATION.

(B) RESIDENTIAL AND BUSINESS AREAS:

THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL RESIDENCES AND BUSINESSES DURING CONSTRUCTION. IN THE EVENT A DRIVE ACCESS NEEDS TO BE CLOSED. THE CONTRACTOR SHALL GIVE NOTICE OF CLOSURE AND DURATION TO THE PROPERTY OWNER 24 HOURS IN ADVANCE. CONTRACTOR SHALL ARRANGE FOR ALTERNATE PARKING AND REASONABLE ACCESS FOR THOSE PROPERTY OWNERS AFFECTED BY DRIVE CLOSURES.

(C) EXISTING STREET NAME AND TRAFFIC CONTROL SIGNS:

WHERE WORK REQUIRES THE MOVEMENT OF EXISTING SIGNS (STOP SIGNS, SPEED LIMIT SIGNS, NO PARKING SIGNS, ETC.). THE CONTRACTOR IS REQUIRED TO MAINTAIN THE FUNCTION OF ALL TRAFFIC CONTROL SIGNS. ALL SIGNS REMOVED BY THE CONTRACTOR SHALL BE STORED ON SITE AND REINSTALLED BY THE CONTRACTOR.

(D) NEW STREET NAME & TRAFFIC CONTROL SIGNS:

ALL STREET NAME AND TRAFFIC CONTROL SIGNS SHALL COME COMPLETE AND BE MADE IN ACCORDANCE WITH THE CITY OF CANTON SIGN AND PAINT DEPARTMENT SPECIFICATIONS. GENERALLY, ALL SIGNS SHALL HAVE HI-INTENSITY SHEETING AND BE MADE WITH .080 50/52 ALUMINUM. STREET NAME SIGNS SHALL BE MADE WITH WHITE UPPER AND LOWER CASE LETTERING ON GREEN BACKGROUND USING 9" BLANKS, BE DOUBLED SIDED W/RADIUS CORNERS AND HAVE 6" NAME AND 3" SUFFIXES. ALL SIGN RELATED HARDWARE IS TO BE INCLUDED. SUCH AS 6" HEAVY DUTY U-CHANNEL CAPS AND STREET NAME CROSSES.

FOR SUBDIVISION DEVELOPMENTS, ALL PERMANENT STREET NAME SIGNS AND TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND INSTALLED BY THE DEVELOPER/CONTRACTOR.

(E) EXISTING TRAFFIC SIGNALS:

WHERE WORK REQUIRES INTERFERENCE WITH EXISTING SIGNALIZATION IN THE INTERSECTIONS, ALL WORK SHALL BE COORDINATED THROUGH THE CITY ENGINEER. THE CONTRACTOR SHALL NOT ALTER ANY SIGNALIZATION WITHOUT THE CITY ENGINEER'S AUTHORIZATION.

(F) NEW TRAFFIC SIGNALIZATION:

ALL NEW OR MODIFIED TRAFFIC SIGNALIZATION AT INTERSECTIONS SHALL BE IN ACCORDANCE WITH CITY TRAFFIC ENGINEERING TRAFFIC CONTROL GENERAL NOTES AND ODOT SPECIFICATIONS; WITH SPECIAL EMPHASIS ON ODOT ITEMS 625, 632, 633, 732, AND 733 WHICH DEALS WITH TRAFFIC CONTROL

(G) TRAFFIC CONTROL PLAN:

THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH CITY SUPPLEMENTAL SPECIFICATION 01-00. DETOURS. IF NECESSARY. SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO PLAN SUBMISSION.

VIII. WATER MAIN/SERVICES:

1. ALL WATER MAINS, SERVICES AND APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED ACCORDING TO THE CITY OF CANTON WATER DEPARTMENT REQUIREMENTS AND SPECIFICATIONS IN EFFECT AT THE TIME OF CONSTRUCTION.

2. MAINS - WATER MAINS SHALL BE CLASS 52 (8" AND UNDER), CLASS 53 (12"), OR CLASS 54 (OVER 12") DUCTILE IRON, MEETING AWWA C151 WITH PUSH JOINTS. THE OUTSIDE SURFACE OF ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES SHALL BE SHOP COATED WITH ASPHALTIC MATERIAL. IF THE COATING MATERIAL IS FOUND TO BE DAMAGED PRIOR TO THE PIPE TRENCH BEING BACKFILLED, THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL APPROVED MATERIAL AS REQUIRED TO REPAIR AS DIRECTED. THE CONTRACTOR SHALL HAVE SUFFICIENT COATING MATERIALS AVAILABLE AT THE JOB SITE PRIOR TO LAYING THE PIPE. THE INTERIOR OF ALL PIPES AND FITTINGS SHALL BE LINED WITH CEMENT MORTAR AND SEAL COATED IN COMPLETE CONFORMANCE WITH AWWA C104, OR THE LATEST REVISION.

3. ALL DUCTILE IRON PIPE, INCLUDING FITTINGS, BENDS, TEES, VALVES AND APPURTENANCES BURIED UNDERGROUND, SHALL BE ENCASED WITH 8 MIL. POLYETHYLENE FILM CONFORMING TO AWWA C105.

4. THE MINIMUM COVER OVER WATER MAINS SHALL BE 4'-6" FROM GROUND SURFACE TO THE BARREL OF THE PIPE.

5. PIPE LENGTHS MAY BE DEFLECTED AT THE JOINT, IF REQUIRED, AT ONE-HALF THE DEGREE RECOMMENDED BY THE MANUFACTURER.

6. FITTINGS SHALL BE DUCTILE IRON AND BE RATED FOR 250 PSI WORKING PRESSURE IN ACCORDANCE WITH AWWA C110 OR AWWA C153. FITTINGS SHALL INCLUDE, BUT NOT LIMITED TO BENDS, TEES, SLEEVES, COUPLINGS, CROSSES, REDUCERS AND CAPS.

7. ANY FITTING OR VALVE ADJACENT TO A TEE OR CROSS SHALL BE ANCHORED TO THE TEE OR CROSS WITH EITHER THE USE OF AN ANCHOR TEE OR ANCHOR CROSS OR AN ANCHOR COUPLING.

8. VALVES - THE ITEMS COVERED BY THIS SPECIFICATION SHALL MEET ALL APPLICABLE AWWA C509 OR C515 STANDARDS AND THE FOLLOWING: ALL VALVES SHALL BE NON-RISING STEM, IRON BODY, RESILIENT WEDGE DISC. THE DESIGN OF THE THRUST COLLAR SHALL BE SUCH THAT THE THRUST COLLAR IS SEALED FROM LINE PRESSURE BY MEANS OF AN "O" RING SEAL. ALL VALVES SHALL BE FURNISHED WITH A TWO (2) INCH SQUARE OPERATING NUT, OPEN RIGHT. ALL VALVES SHALL BE FURNISHED WITH MECHANICAL JOINT END CONNECTIONS. THE STEM SHALL BE PROTECTED FROM EXTERNAL GRIT BY A WEATHER SHIELD AND AN UPPER "O" RING. STEM SHALL BE LUBRICATED. GATE COATING SHALL HAVE A MINIMUM THICKNESS OF 10 MILS. VALVE SHALL BE TESTED AT THE RATED WORKING PRESSURE OF 250 PSI WITH NO LEAKAGE. SHELL TEST OF 500 PSI SHALL BE APPLIED TO BODY WITH VALVE IN THE OPEN POSITION WITH NO LEAKAGE THROUGH THE METAL, STEM SEALS OR JOINTS. VALVE MUST HAVE TRADITIONAL STUFFING BOX. ALL BOLTING MATERIAL IN THE THRUST COLLAR AND BONNET SHALL BE #316 SS BOLTS. ALL VALVES WITH ACCESSORIES PACK (FLANGES, RUBBERS, NUTS, BOLTS)

9. ALL VALVE BOXES SHALL BE HEAVY DUTY, THREE (3) PIECE SCREW TYPE, WITH "WATER" LIDS.

10. FLUSHING AND DISINFECTION OF WATER MAINS SHALL BE IN ACCORDANCE WITH AWWA C651.

11. ALL WATER LINE PRESSURE TESTING SHALL CONFORM TO AWWA C600.

12. WATER MAINS SHALL BE INSTALLED AND BACKFILLED PER ODOT ITEM 638.

13. WATER LINES LOCATED WITHIN THE LIMITS OF OR WITHIN A 1/2 TO 1 SLOPE OF EXISTING AND/OR PROPOSED ROADWAYS, PARKING AREAS, BUILDINGS, SIDEWALKS, AND/OR DRIVES SHALL BE INSTALLED AS TYPE B CONDUITS. ALL OTHER WATER MAINS SHALL BE INSTALLED AS TYPE C CONDUITS. BEDDING SHALL BE AS SPECIFIED, EXCEPT THAT SLAG WILL NOT BE PERMITTED.

14. ALL BENDS, FITTINGS, TEES, VALVES, DEAD ENDS, ETC. SHALL BE SECURED EQUAL. Poured-in-place concrete thrust blocks shall also be provided at/for each bends, fitting, tee, dead end, etc. This blocking shall be carefully placed to ensure it is positioned properly to withstand the resultant forces at each bend, fitting, etc. and shall bear on stable undisturbed ground capable of withstanding the potential loading. When directed by the city, tie rods are to be 3/4 inch diameter. Two tie rods are required for an 8 inch pipe, and four tie rods are required for 12 inch and greater pipe.

15. IN ADDITION TO THE RESTRAINT OF ALL BENDS, FITTINGS, TEES, VALVES, DEAD ENDS, ETC. THE CONTRACTOR SHALL ALSO SECURE/RESTRAIN ALL JOINTS FOR AT LEAST THREE (3) PIPE JOINTS (50 LF MIN.) BEYOND EACH DEAD END, BEND, FITTING, VALVE, TEE, ETC. UTILIZING MEGALUGS, FIELD LOK GASKETS, OR APPROVED EQUALS.

16. THE CONTRACTOR SHALL PROVIDE 18" VERTICAL CLEARANCE BETWEEN PROPOSED WATERLINES AND ANY SANITARY OR STORM SEWERS. WHEN 18" CLEARANCE BETWEEN A WATERLINE AND A SANITARY OR STORM SEWER CANNOT BE OBTAINED, THE CONTRACTOR SHALL PROVIDE CONCRETE ENCASEMENT AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN TEN (10) FOOT HORIZONTAL CLEARANCE BETWEEN WATERLINES/SERVICES AND SANITARY OR STORM SEWERS.

17. HYDRANTS - THE FIRE HYDRANT SETTING SHALL INCLUDE THE HYDRANT, ANCHOR TEE, VALVE, VALVE BOX, 6 INCH DUCTILE IRON (CLASS 52) PIPING AND ALL FITTINGS NEEDED FOR PROPER INSTALLATION TO FINAL GRADE. FIRE HYDRANTS SHALL BE MUELLER A423 MEETING THE CITY OF CANTON WATER DEPARTMENT STANDARDS AND REQUIREMENTS. ALL COSTS FOR THE 6" PIPING ASSOCIATED WITH THE INSTALLATION OF FIRE HYDRANTS SHALL BE INCLUDED WITH THE FIRE HYDRANT PAY ITEM. ALL HYDRANTS SHALL BE INSTALLED WITH THE PUMPER NOZZLE FACING THE STREET. ALL FIRE HYDRANT THREADS SHALL BE LUBRICATED WITH A FOOD GRADE LUBRICANT AND OPERATED UPON INSTALLATION.

18. CUT-IN SLEEVES FOR TIE-IN TO EXISTING WATER MAINS SHALL BE SMITH BLAIR 441 SLEEVES WITH #316 SS BOLTS.

19. ALL WATER TAPS AND SERVICES MUST BE INSTALLED BEFORE ANY PAVEMENT FOR THE PROPOSED ROADWAY HAS BEEN PLACED. CONTRACTOR SHALL MAKE ALL SERVICE TAPS ON THE WATER MAIN.

20. PRIOR TO MAKING THE TAP, THE CONTRACTOR SHALL EXPOSE THE EXISTING CURB BOX AND VERIFY THE SIZE OF THE WATER SERVICE LINE ON THE OWNER'S SIDE. THE PROPOSED TAP AND SERVICE SHALL MATCH THE SIZE OF THE OWNER'S SERVICE LINE, WITH 1" BEING A MINIMUM. AN EXISTING 1 1/4" SERVICE SHALL BE REPLACED WITH A 1 1/2" SERVICE AND TAP.

21. THE PROPOSED WATER SERVICES AND TAPS SHALL BE 1" UNLESS NOTED OTHERWISE ON THE PLANS OR DETERMINED OTHERWISE PER PREVIOUS NOTE.

22. ANY SERVICE TO THE FAR SIDE OF THE STREET SHALL BE PUSHED OR BORED UNDER THE PAVEMENT. TRENCHING ACROSS THE ROAD IS NOT PERMITTED.

23. THE CONTRACTOR SHALL TAKE ANY AND ALL NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN IN SERVICE, ANY EXISTING WATER MAINS AND/OR SERVICES EXPOSED DURING CONSTRUCTION. IF THE CONTRACTOR BREAKS A WATER MAIN AND/OR SERVICE, HE SHALL BE RESPONSIBLE TO REPAIR THE BREAK, AT HIS OWN EXPENSE, AND WILL NOT BE COMPENSATED FOR THIS DOWN TIME.

24. ANY WATER SERVICE LINE THAT IS BROKEN, CUT OR OTHERWISE DAMAGED, SHALL BE REPLACED FROM THE CORPORATION STOP TO THE CURB STOP WITH A SINGLE PIECE OF HDPE TUBING, CTS, PE4710. NO SPLICING OF THE SERVICE LINE WILL BE PERMITTED.

25. SERVICE BRANCHES WILL BE INSTALLED AS PER ODOT ITEM 638.16, EXCEPTION WHEN A SERVICE BRANCH IS DISTURBED FOR LOWERING, RAISING, EXTENDING OR SHORTENING ON THE PROPERTY SIDE ON THE SERVICE STOP, IT SHALL BE REPLACED WITH NEW MATERIALS FROM THE CORPORATION STOP TO THE SERVICE STOP.

26. IN A STREET IMPROVEMENT, NO EXISTING WATER CURB BOX WILL BE LEFT IN THE PAVEMENT, CURB AND GUTTER OR SIDEWALK. THE CURB BOX WILL BE MOVED TO A SUITABLE LOCATION DETERMINED BY THE CANTON WATER DEPARTMENT. WHEN THE CURB BOX IS MOVED, ALL NEW MATERIAL WILL BE USED FROM THE CORPORATION STOP TO THE CURB STOP WHICH IS A SINGLE PIECE OF HDPE TUBING, CTS, PE4710. NO SPLICING OF THE SERVICE LINE WILL BE PERMITTED. A NEW TAP (CORPORATION STOP) AND CURB STOP AND BOX MAY ALSO BE REQUIRED. THE DETERMINATION WILL BE MADE BY THE CANTON WATER DEPARTMENT.

27. POLYETHYLENE WATER MAIN AND SERVICE TUBING 2" AND UNDER SHALL BE COPPER TUBE SIZE, SDR 9, WITH A MINIMUM PRESSURE CLASS OF 200 PSI AND MEET STANDARDS ASTM-D2737 PE4710 AND AWWA C901. THE ACCEPTABLE TUBING IS CP CHEM PERFORMANCE PIPE DRISCOPLEX 5100-ULTRA-LINE, CHARTER PLASTICS INC. BLUE ICE, ENDOT ENDOPURE AND ADS POLYFLEX.

28. THE PROPOSED FACILITIES SHALL MAINTAIN A MINIMUM 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.

29. A MINIMUM PRESSURE OF 20 PSI AT GROUND LEVEL SHALL BE MAINTAINED AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW.

30. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.

31. WHEN AN EXISTING WATER MAIN MUST BE SHUT DOWN TO PERFORM REQUIRED WORK, THE CONTRACTOR SHALL NOTIFY THE PROPERTIES TO BE AFFECTED A MINIMUM OF 24 HOURS IN ADVANCE OF SAID SHUT DOWN. THE WORK WILL BE SCHEDULED AND COORDINATED TO MINIMIZE THE TIME THE MAIN IS OUT OF SERVICE.

32. THE CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS IN ADVANCE OF ANY SHUT DOWN OF AN EXISTING MAIN. THE CONTRACTOR WILL NOT OPERATE ANY VALVES. VALVES WILL BE OPERATED BY CANTON WATER DEPARTMENT PERSONNEL ONLY. VALVES DAMAGED BY THE CONTRACTOR'S OPERATION WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

33. ALL VALVE BOXES WILL BE ADJUSTED TO FINAL GRADE OF SURROUNDING PAVEMENT OR FINISHED SURFACE TREATMENTS WHEN THE PROJECT IS COMPLETED.

34. ANY DIGGING WITHIN THE RIGHT-OF-WAY OF ANY STREET REQUIRES A ROAD OPENING PERMIT. PLEASE CONTACT THE APPROPRIATE GOVERNMENTAL ENTITY FOR INFORMATION REGARDING THE PERMITTING PROCESS AND/OR FEES DUE.

35. THE CONTRACTOR SHALL REPLACE ANY TRAFFIC SIGNAL LOOP DETECTOR WIRE DAMAGED DURING THE WATERLINE INSTALLATION. THIS COST SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ALL ITEMS IN THE PROPOSAL.

36. THE CONTRACTOR SHALL REPLACE ANY ROADWAY PAVEMENT MARKINGS DAMAGED OR REMOVED DURING THIS PROJECT. THE PAVEMENT MARKINGS SHALL BE PER THE GOVERNING AUTHORITY'S SPECIFICATIONS. THIS COST SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ALL ITEMS IN THE PROPOSAL.

37. THE CONTRACTOR SHALL REPLACE ANY PRIVATE IRRIGATION SYSTEMS AND/OR UNDERGROUND ELECTRIC FENCES THAT ARE DAMAGED OR REMOVED DURING THE WATERLINE CONSTRUCTION. THIS COST SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ALL ITEMS IN THE PROPOSAL.

38. VALVES THAT ARE CALLED OUT TO BE ABANDONED SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO ABANDON EXISTING WATER VALVES. THIS ITEM SHALL ALSO INCLUDE ANY NECESSARY EXCAVATION AND BACKFILL REQUIRED. VALVES SHALL BE CLOSED AND HAVE THE TOP 6" OF THE CASTING REMOVED. VALVES IN PAVEMENT SHALL BE FILLED WITH CONCRETE WITH THE TOP 6" MATCHING THE EXISTING PAVEMENT COMPOSITION. VALVES IN YARD AREA SHALL BE FILLED WITH SAND.

39. FIRE HYDRANTS THAT ARE CALLED OUT TO BE REMOVED SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO REMOVE THE FIRE HYDRANT, HYDRANT VALVE AND PLUG THE HYDRANT TEE.

40. FOR WATERLINES CALLED OUT TO BE ABANDONED, THE CONTRACTOR SHALL PLUG AND ABANDON THE EXISTING WATERLINE WITH A DUCTILE IRON PLUG OR AS DIRECTED BY THE CANTON WATER DEPARTMENT.

41. REMOVAL OF ANY EXISTING THRUST BLOCKS WILL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT COST.

IX. POST-CONSTRUCTION INCIDENTALS:

(A.) AS-BUILT DRAWINGS:

REPRODUCIBLE MYLARS SHALL BE PROVIDED TO THE CITY OF CANTON BY THE DESIGN ENGINEER AT THE COMPLETION OF THE PROJECT. AS-BUILT INFORMATION CONSISTS OF POST-CONSTRUCTION FIELD SURVEY DATA OF THE LOCATION, FLOWLINE ELEVATIONS, AND TOP OF GRATE/RIM ELEVATIONS FOR ALL STORM AND SANITARY STRUCTURES CONSTRUCTED AND/OR IMPACTED BY THE PROJECT.

FOR PRIVATE PROJECTS, THE CONSTRUCTION BOND WILL NOT BE RELEASED UNTIL THE AS-BUILT DRAWINGS HAVE BEEN ACCEPTED.

(B) PROPOSED MONUMENTATION:

THE DEVELOPER'S/CONTRACTOR'S SURVEYOR SHALL NOTIFY THE CITY ENGINEER IN WRITING UPON THE COMPLETION OF MONUMENTS BEING SET AS PER PLAN OR RECORD PLAT

(C) RELEASE OF RETAINER/BONDS:

PRIOR TO THE RELEASE OF RETAINER/CONSTRUCTION BOND BY THE CITY OF CANTON, THE CONTRACTOR SHALL HAVE COMPLETED THE ENGINEER'S PROJECT PUNCHLIST AND SUBMIT FINAL WAIVER OF LIEN IN ACCORDANCE WITH CITY SS 01-00

X. WATERLINE CONSTRUCTION NOTES:

1. TEMPORARY VALVES AND TEMPORARY SERVICES ALLOW FOR THE CONTRACTOR, WITHOUT INTERRUPTING SERVICES, TO ABANDON SECTIONS OF EXISTING WATER MAIN WHICH ARE LIKELY TO BE IN CONFLICT WITH PROPOSED WATER MAIN. THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE APPROVED BY THE CANTON WATER DEPARTMENT.

2. EXCAVATION AND DISPOSAL OF EXISTING WATER MAIN AND VALVES ENCOUNTERED DURING CONSTRUCTION OF PROPOSED WATER MAIN SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

3. PRIOR TO ORDERING THE 18" X 8" TAPPING SLEEVE (TO BE USED TO TIE INTO THE WATERLINE ON MARKET AVE.), THE CONTRACTOR SHALL EXPOSE THE EXISTING 18" WATERLINE TO VERIFY THE O.D. SIZE, MATERIAL, AND HORIZONTAL/VERTICAL LOCATIONS.

4. THE 18" X 8" TAPPING SLEEVE SHALL BE SMITH-BLAIR 622 TAPPING SLEEVE, OR APPROVED EQUAL, WITH M.J. OUTLET. THE TAPPING SLEEVE SHALL BE EPOXY COATED AND SHALL USE TYPE 316 STAINLESS STEEL BOLTS. TAPPING SLEEVE SHALL BE WRAPPED WITH POLYETHYLENE AND CONCRETE ENCASED.

5. THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE FOLLOWED UNLESS AN ALTERNATE IS APPROVED, IN WRITING , BY THE CANTON WATER DEPARTMENT.

A. INSTALL THE THREE TEMPORARY VALVES AT APPROXIMATE STATIONS, 599+65 SPRING AVENUE, 202+53 22ND STREET AND 303+15 24TH STREET. ALSO INSTALL THE TEMPORARY SERVICES FOR #126 22ND STREET AND #123 22ND STREET.

B. TIE INTO THE EXISTING 18" WATER MAIN ON MARKET AVENUE AND INSTALL THE PROPOSED WATERLINE ON 23RD STREET TO THE PROPOSED 8" X 6" TEE.

C. CONTINUE TO INSTALL THE PROPOSED WATERLINE TO THE SOUTH ON 22ND STREET. ONCE THE PROPOSED WATERLINE BECOMES IN CONFLICT WITH THE EXISTING WATERLINE, CLOSE THE APPLICABLE, EXISTING VALVES (INCLUDING THE TEMPORARY VALVES ON SPRING AND 22ND STREET) AND INSTALL THE THREE 6" PLUGS AT APPROXIMATE STATIONS 200+86 23RD STREET, 202+06 22ND STREET AND 202+29 22ND STREET. CONTINUE INSTALLING THE PROPOSED WATERLINE ON 22ND STREET. WITHIN THE LIMITS OF THE TWO PLUGS, REMOVE THE CONFLICTING, EXISTING WATERLINE AS YOU PROCEED.

D. FROM THE 8" X 6" TEE ON 23RD STREET, INSTALL THE PROPOSED WATERLINE TO THE NORTH ON 24TH STREET. ONCE THE PROPOSED WATERLINE BECOMES IN CONFLICT WITH THE EXISTING WATERLINE, CLOSE THE APPLICABLE, EXISTING VALVES (INCLUDING THE TEMPORARY VALVE ON 24TH STREET) AND INSTALL THE TWO 6" PLUGS AT APPROXIMATE STATIONS 300+77 24TH STREET AND 302+86 24TH STREET. CONTINUE INSTALLING THE PROPOSED WATERLINE ON 24TH STREET. WITHIN THE LIMITS OF THE TWO PLUGS, REMOVE THE CONFLICTING, EXISTING WATERLINE AS YOU PROCEED.

E. INSTALL THE REMAINDER OF THE PROPOSED WATERLINE.

CONTINGENCY ITEMS - AS DIRECTED BY ENGINEER:

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

FILLER AGGREGATE WITHIN BRICK PAVEMENT RESTORATION AREA:

ITEM 304-AGGREGATE BASE	166 CY
-------------------------	--------

GENERAL ITEMS WITHIN PROJECT LIMITS:

ITEM 202-WALK REMOVED	125 SF
ITEM 202-CURB AND GUTTER REMOVED	50 FT
ITEM 608-4" CONCRETE WALK	125 SF
ITEM 609-COMBINATION CURB AND GUTTER, TYPE 2	50 FT.

ITEM SPECIAL - BRICK PAVEMENT RESTORATION

DESCRIPTION: THIS ITEM SHALL CONSIST OF REMOVAL OF EXISTING BRICK PAVEMENT/SAND LAYER AND PLACEMENT OF PROPOSED AND/OR SALVAGED BRICK PAVEMENT/SAND LAYER AT LOCATIONS SHOWN IN THE PLANS.

MATERIALS:

A.) REPLACEMENT BRICK PAVER - REPLACEMENT BRICK PAVERS ARE TO BE NEW HEAVY VEHICULAR PAVING BRICKS IN ACCORDANCE WITH ASTM C1272. BRICK PAVERS WILL BE VISUALLY INSPECTED SUBSEQUENT TO DELIVERY, AND PRIOR TO, DURING OR AFTER LAYING AND ROLLING. BRICK PAVERS NOT IN ACCORDANCE WITH ASTM C1272 WILL BE REJECTED. REPLACEMENT BRICK PAVERS THAT ARE SO KILN MARKED OR DISTORTED IN BURNING AS TO LAY UNEVENLY IN PAVEMENT SECTION, WILL BE REJECTED. REPLACEMENT BRICK PAVERS ARE TO CONFORM IN SIZE AND COLOR TO EXISTING BRICK PAVERS ORIGINALLY USED FOR PAVEMENT AREA TO BE RESTORED. COLOR OF REPLACEMENT BRICK PAVERS IS TO BE PERMANENT AND REASONABLY UNIFORM THROUGHOUT BRICK PAVER. WHEN SAMPLE PIECES OF REPLACEMENT BRICK PAVERS BROKEN, BRICK PAVER IS TO EXHIBIT UNIFORMITY OF TEXTURE AND STRUCTURE, AND IS TO BE FREE FROM OPEN OR MARKET LAMINATIONS. FOR GRADES OF 6 PERCENT OR OVER, BRICK PAVERS ARE TO HAVE ONE OR MORE LONGITUDINAL EDGES OR FACES CHAMFERED OR GROOVED UP TO $\frac{3}{4}$ INCH.

AT A MINIMUM, REPLACEMENT BRICK PAVERS ARE TO CONFORM TO THE CITY OF CANTON BRICK PAVER STANDARDS WHICH ARE AS FOLLOWS:

4X8 BRICK PAVERS, 2- $\frac{3}{4}$ " THICK - ROADWAY PAVER BY BELDEN BRICK - ASTM C1272 TRAFFIC TYPE F, APPLICATION PX, WEATHER SX, 10,000 PSI, COLOR JUMBO REGIMENTAL

BRICK ALTERNATE - ROADWAY PAVER BY WHITACRE GREER 4X8- $\frac{1}{2}$ X 3- $\frac{1}{2}$, ASTM C1272 TRAFFIC TYPE F, APPLICATION PX, WEATHER SX, 10,000 PSI, COLOR 33 DARK ANTIQUE, BRICK TO HAVE BEVELED EDGE AND LUGS

B.) COARSE SAND - COARSE SAND IS TO BE CLEAN WASHED WELL GRADED ANGULAR SAND WITH MAXIMUM PARTICLE SIZE OF $\frac{3}{8}$ INCH, WITHOUT ANY FINE LIMESTONE SCREENINGS, FREE OF SALTS AND OTHER DELETERIOUS MATERIALS, AND IN ACCORDANCE WITH ASTM C33 CONCRETE AGGREGATES.

AT A MINIMUM, COARSE SAND IS TO CONFORM TO THE CITY OF CANTON BRICK PAVER STANDARDS WHICH ARE AS FOLLOWS:

1-INCH MAX COMPACTED SAND ODOT 703.02 (ASTM C33) SETTING BED W/ MORTAR.

C.) POLYMERIC JOINTING SAND - POLYMERIC JOINTING SAND FOR FILLING JOINTS IS TO BE MIX OF GRADED SAND AND BINDER, ESPECIALLY FORMULATED FOR FILLING OF NARROW OR WIDE JOINTS FOR BRICK, SLATE AND STONE PAVER CONSTRUCTION. AFTER SETTING-UP, POLYMERIC JOINTING SAND MATERIAL IS TO BE FLEXIBLE, ALLOWING FOR MOVEMENT WITHOUT CRACKING. POLYMERIC JOINTING SAND IS TO BE RESISTANT TO INSECT INFESTATION, WEED GROWTH AND EROSION CAUSED BY RAIN, FROST, WIND AND SUCTION. POLYMERIC JOINTING SAND IS TO BE SUITABLE FOR STABILIZING HORIZONTAL OR SLOPING INSTALLATIONS SUCH AS FOR STREETS, DRIVEWAYS, SIDEWALKS, PARKING LOTS AND CURB PARK AREAS.

AT A MINIMUM, POLYMERIC JOINTING SAND IS TO CONFORM TO THE CITY OF CANTON BRICK PAVER STANDARDS WHICH ARE AS FOLLOWS:

SWEEP JOINTS WITH DRY MIXTURE OF POLYMERIC SAND TECHNI-SEAL OR APPROVED EQUAL. USE PLATE TAMPER WITH RUBBER MAT OR OTHER PROTECTION FOR BRICK. REMOVE EXCESS AND MOISTEN TO SET JOINT SEALANT SAND.

D.) EXISTING PAVEMENT BASE AND SUBBASE - BASED ON CITY'S PAST EXPERIENCE, THE 6" CONCRETE BASE HAS DETERIORATED OVER TIME AND HAS REDUCED TO AN AGGREGATE BASE MATERIAL. IT SHALL REMAIN IN PLACE AND A CONTINGENCY PAY ITEM FOR ADDITIONAL ITEM 304 - AGGREGATE BASE HAS BEEN INCLUDED IN THE PLANS TO FILL IN VOIDS AND/OR LEVELING PURPOSES. AFTER ALL BACKFILL AND AGGREGATE MATERIAL HAS BEEN PLACED FOR STORM SEWER AND WATERLINE WORK, THE EXISTING PAVEMENT BASE AND SUBBASE SHALL BE CEMENT STABILIZED UNDER A SEPARATE PAY ITEM.

CONSTRUCTION DETAILS:**A.) GENERAL:**

BRICK PAVERS ARE TO BE HANDLED CAREFULLY DURING HAULING, UNLOADING AND LAYING, SO AS TO PREVENT SPALLING OR OTHERWISE DAMAGING BRICK PAVERS.

BRICK PAVERS ARE TO BE STORED AT LOCATION THAT IS SAFE AND SECURE FROM DAMAGE BY CONTRACTOR'S ONGOING OPERATIONS, AND FROM VANDALISM, THEFT OR OTHER MISHAP. BRICK PAVERS ARE NOT TO BE STACKED MORE THAN FIVE HIGH, WITH BOTTOM ROW PLACED ON LEVEL GROUND TO PROVIDE EVEN BEARING ACROSS ENTIRE BRICK PAVER SURFACE. WORK IS TO BE PHASED SO AS TO REDUCE TO MINIMUM AMOUNT OF TIME BRICK PAVERS ARE TO BE STORED.

BRICK PAVERS ARE TO BE COVERED TO PREVENT MUD, DIRT OR OTHER MATERIAL FROM COLLECTING ON BRICK PAVERS. BRICK PAVERS THAT BECOME SOILED ARE TO BE CLEANED BEFORE USE.

BRICK PAVERS ARE NOT TO BE INSTALLED WHEN AMBIENT AIR TEMPERATURE IS UNDER 40°F, OR IS EXPECTED TO FALL BELOW 40°F WITHIN FOLLOWING 24 HOUR PERIOD.

CUTTING STRAIGHT EDGES OF BRICK PAVERS IS TO BE DONE WITH WATER COOLED RADIAL CUT-OFF TYPE MASONRY SAW FOR SHARP, STRAIGHT EDGE. CUTTING CIRCULAR EDGES OF BRICK PAVERS IS TO BE DONE WITH CONCRETE HOLE SAW WHICH PRODUCES SHARP CIRCULAR EDGE.

EXPANSION JOINTS ARE TO BE PROVIDED WHERE BRICK PAVERS BUTT UP AGAINST CURB, CATCH BASIN, MANHOLE, UTILITY VALVE OR ANY OTHER TYPE OF STRUCTURE OR UTILITY APPURTENANCE LOCATED WITHIN AREA TO BE RESTORED. PLACE $\frac{1}{2}$ INCH THICK PREMOULDED EXPANSION JOINT MATERIAL BETWEEN BRICK PAVER AND STRUCTURE/UTILITY APPURTENANCE. TOP OF PREMOULDED EXPANSION JOINT MATERIAL IS TO BE RECESSED $\frac{5}{8}$ INCH BELOW TOP OF BRICK PAVER, WITH RECESSED AREA FILLED IN WITH CAULKING SEALANT. ALL OUTER EDGES OF EXISTING BRICK PAVEMENT AREA TO BE RESTORED, ARE TO BE SAW CUT BEFORE BEING EXCAVATED. SAW CUTS ARE TO BE FULL DEPTH THRU EXISTING CONCRETE FOUNDATION, AND ARE TO BE MADE BY USING CONCRETE SAW.

B.) BRICK PAVER REMOVAL:

USE EXTRA CAUTION WHEN REMOVING AND HANDLING EXISTING BRICK PAVERS THAT ARE TO BE SALVAGED FOR REUSE, AND WHEN WORKING ADJACENT TO BRICK PAVEMENT AREAS THAT ARE TO REMAIN, SO THAT BREAKAGE OR DAMAGE CAUSED BY CONTRACTOR'S ONGOING OPERATIONS IS KEPT TO ABSOLUTE MINIMAL AMOUNT AS POSSIBLE. EXISTING BRICK PAVERS THAT ARE DESIGNATED FOR REUSE, AND ARE SUBSEQUENTLY DAMAGED DUE TO CONTRACTOR'S OPERATIONS, ARE TO BE REPLACED WITH NEW REPLACEMENT BRICK PAVERS.

PROJECT ENGINEER AND CONTRACTOR WILL PRE-DETERMINE WHICH EXISTING BRICK PAVERS ARE STRUCTURALLY ACCEPTABLE FOR REUSE. CAREFULLY EXCAVATE AROUND AND REMOVE EXISTING BRICK PAVERS SUCH THAT OVERALL STRUCTURAL INTEGRITY OF BRICK PAVER IS NOT COMPROMISED. CLEAN REMOVED BRICK PAVERS OF ALL EXTRANEIOUS MATERIALS, INCLUDING CONCRETE, IN SUCH MANNER AS TO BE NON-DELETERIOUS TO BRICK PAVER.

CAUTION IS TO BE TAKEN IN REMOVING EXISTING BRICK TO MINIMIZE ANY BREAKAGE. BRICK IS TO BE CLEANED OF ALL FOREIGN OR EXTRANEIOUS MATTER. REMOVAL AND CLEANING OF BRICK IS TO BE DONE SUCH THAT OVERALL STRUCTURAL INTEGRITY OF BRICK IS MAINTAINED. EXISTING BRICK PAVERS THAT ARE BROKEN DURING EXCAVATION, OR CLEANING OPERATIONS, ARE TO BE PROPERLY DISPOSED OF.

AFTER REMOVING EXISTING BRICK PAVERS, EXISTING SETTING BED MATERIAL IS TO BE REMOVED.

BRICK PAVEMENT RESTORATION:**A.) GENERAL**

BRICK PAVEMENT RESTORATION AREA IS TO BE IN ACCORDANCE WITH EXISTING PATTERN, JOINTS, GRADE, AND CROWN SO AS TO BLEND IN WITH ADJACENT EXISTING BRICK PAVEMENT AREAS, AND TO PROVIDE UNIFORMLY EVEN SURFACE.

THE CONTRACTOR SHALL MAKE A VISUAL (PICTURE) RECORD OF THE EXISTING LAYOUT AND PATTERN PRIOR TO THE REMOVAL OF THE EXISTING BRICK PAVERS TO ENSURE THE REMOVED PAVERS CAN BE REPLACED TO MATCH EXISTING LAYOUT AND PATTERN PRIOR TO REMOVAL.

BRICK PAVEMENT IS TO BE RESTORED USING COMBINATION OF EXISTING AND NEW REPLACEMENT BRICK PAVERS. EXISTING BRICK PAVERS ARE THOSE THAT ARE EITHER EXCAVATED FROM PROJECT SITE, OR SALVAGED AND IMPORTED FROM OTHER LOCATIONS. IF EXISTING BRICK PAVERS ARE IMPORTED FROM ANOTHER LOCATION, IMPORTED BRICK PAVERS MUST CONFORM IN SIZE AND COLOR TO EXISTING BRICK PAVEMENT AREA BEING RESTORED.

REUSE ONLY EXISTING BRICK PAVERS THAT ARE IN GOOD CONDITION, SOLID, WITHOUT BEING CRACKED, CHIPPED, OR SHOW ANY OTHER FORMS OF DETERIORATION, AND THAT ARE APPROVED FOR REUSE BY PROJECT MANAGER.

BEFORE EXISTING BRICK PAVERS ARE RESET, EXISTING BRICK PAVERS ARE TO BE REDRESSED AND CLEANED TO OBTAIN SMOOTH SURFACE AND TO PROVIDE FOR GOOD FIT WITH ADJACENT BRICK PAVERS WHERE THEY ARE BEING INSTALLED.

BRICK PAVEMENT SECTION IS TO BE AS DETAILED IN CONTRACT DOCUMENTS. BEFORE CONSTRUCTING BRICK PAVEMENT SECTION, SURFACE OF UNDERLYING SUBBASE MATERIAL SHOULD BE THOROUGHLY CLEAN AND DRY, AND ANY ISOLATED HIGH AND LOW SPOTS CORRECTED BEFORE PLACEMENT OF SUBBASE COURSE MATERIAL.

BRICK PAVERS ARE TO BE LAID ON SETTING BED OF COARSE SAND WHICH HAS BEEN THOROUGHLY COMPACTED TO NOMINAL THICKNESS OF 1 INCH AFTER COMPACTION. SCREED RAILS SHOULD BE SET ON SURFACE OF SETTING BED MATERIAL TO PROPER LINE AND LEVEL. AN ALLOWANCE SHOULD BE MADE IN OVERALL THICKNESS OF SETTING BED MATERIAL FOR COMPACTION DURING BRICK PAVER INSTALLATION. OVERALL PLACEMENT THICKNESS OF SETTING BED MATERIAL SHOULD BE ESTABLISHED SO THAT AFTER BRICK PAVERS HAVE BEEN COMPACTED, TOP SURFACE OF BRICK PAVERS WILL BE MAXIMUM OF $\frac{1}{8}$ INCH ABOVE FINISHED GRADE TO ALLOW FOR LIMITED IN-SERVICE SETTLEMENT.

TO PREVENT DISTURBANCE, SETTING BED MATERIAL SHOULD NOT BE SPREAD TOO FAR AHEAD OF BRICK PAVER LAYING FACE. VOIDS LEFT AFTER REMOVING SCREED RAILS SHOULD BE FILLED. PROTECT SCREED SETTING BED MATERIAL FROM WIND OR RAIN AS WELL AS BY WAYWARD CONSTRUCTION OPERATIONS. IF SETTING BED MATERIAL IS DISTURBED, IT IS TO BE LOOSENEED AND RESCREED. EXTENSIVE AREAS OF SCREED SETTING BED MATERIAL SHOULD NOT BE LEFT EXPOSED OVERNIGHT UNLESS THEY ARE PROPERLY PROTECTED FROM DISTURBANCE AND MOISTURE. MOISTURE CONTENT OF SETTING BED MATERIAL SHOULD BE KEPT AS UNIFORM AS POSSIBLE TO MINIMIZE UNDULATIONS IN BRICK PAVER SURFACE, AND SHOULD BE KEPT IN DAMP CONDITION CONDUCIVE TO PACKING. WATER SHOULD NOT BE

APPLIED EXCEPT BY VERY LIGHT MISTING. STOCKPILED SETTING BED MATERIAL IS TO BE COVERED TO PROTECT IT FROM WIND AND RAIN.

BRICK PAVERS ARE TO BE PLACED BY HAND ON SETTING BED MATERIAL, IN REQUIRED PATTERN, WITH STRAIGHT COURSES. BRICK PAVERS SHOULD BE TAMPED DOWN AND LEVELED WITH MECHANICAL VIBRATOR. AFTER COMPACTION, TOP OF BRICK PAVERS ARE TO BE MAXIMUM $\frac{1}{8}$ INCH ABOVE FINISHED GRADE, TRUE TO SURROUNDING CROSS-SLOPE AND GRADE, AND FREE OF ANY MOVEMENT.

JOINTS BETWEEN BRICK PAVERS ARE TO BE BETWEEN $\frac{1}{16}$ AND $\frac{3}{16}$ OF AN INCH, WITH NO JOINT WIDTH TO EXCEED $\frac{3}{16}$ OF AN INCH. JOINTS ARE TO BE FILLED WITH POLYMERIC JOINTING SAND OR MORTAR, TO WITHIN $\frac{1}{8}$ INCH OF BRICK PAVER SURFACE AFTER COMPACTION.

B.) JOINTS - POLYMERIC JOINTING SAND

BEFORE APPLYING POLYMERIC JOINTING SAND MATERIAL, SURFACE OF BRICK PAVERS MUST BE COMPLETELY DRY AS MOISTURE WILL ACTIVATE BINDER AGENT OF POLYMERIC JOINTING SAND.

COVER BRICK PAVEMENT RESTORATION AREA WITH POLYMERIC JOINTING SAND, THEN SWEEP POLYMERIC JOINTING SAND OVER AND INTO ALL JOINTS UNTIL JOINTS ARE OVERFILLED. SWEEP ENTIRE SURFACE CLEAN REMOVING ALL EXCESS POLYMERIC JOINTING SAND MATERIAL AS SOON AS POSSIBLE SO POLYMERIC JOINTING SAND DOES NOT GET STUCK IN SURFACE TEXTURE OF BRICK PAVERS. COMPACT OVERALL AREA, REPEATING PROCESS UNTIL JOINTS ARE FILLED SOLID WITH POLYMERIC JOINTING SAND. LIGHTLY MOISTEN POLYMERIC JOINTING SAND MATERIAL WITH WATER SEVERAL TIMES AT 5 TO 10 MINUTE INTERVALS GRADUALLY MOISTENING ENTIRE DEPTH OF JOINT.

BASIS OF PAYMENT:

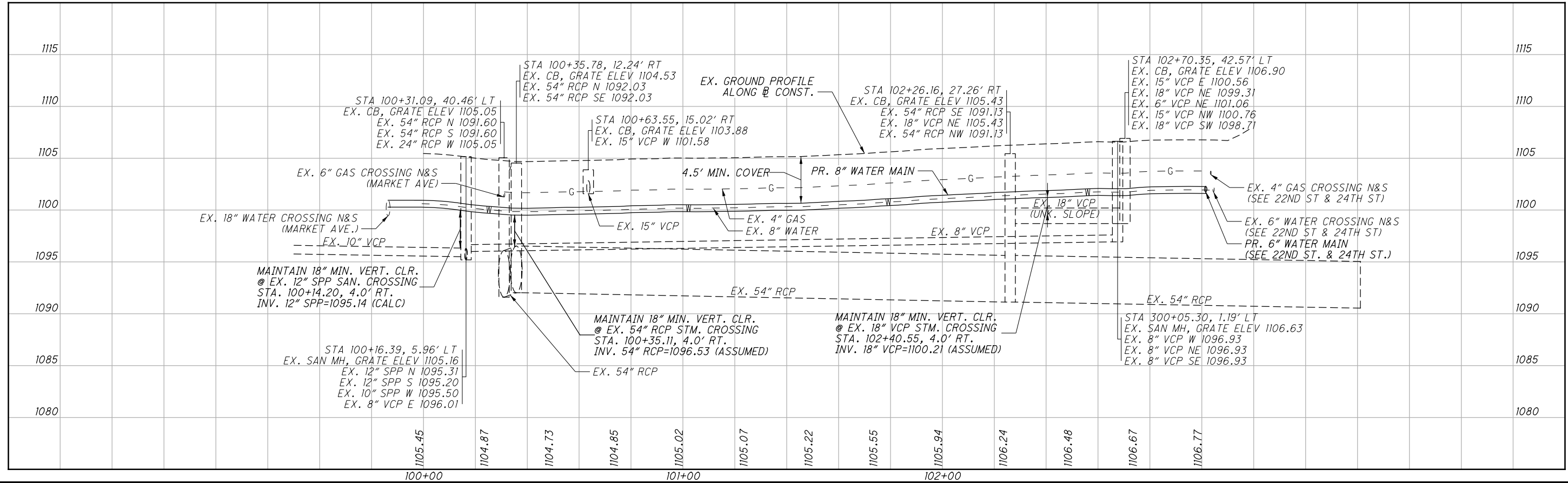
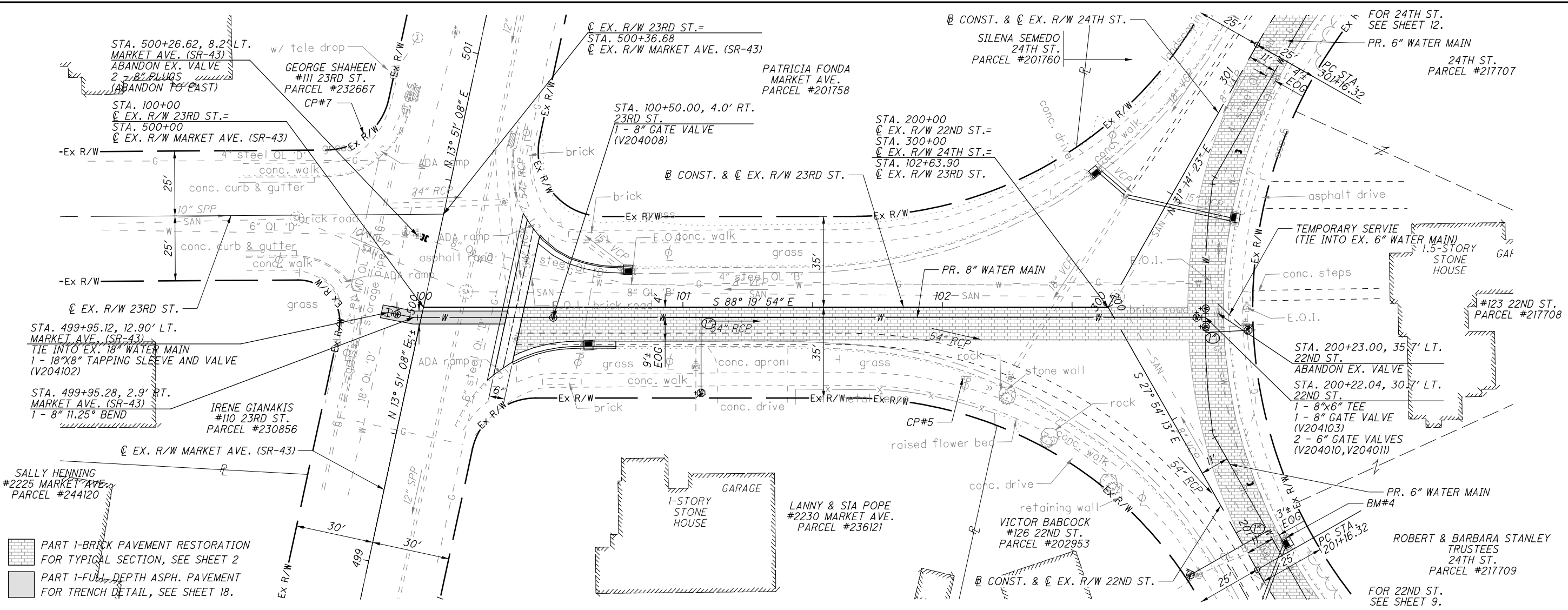
UNIT PRICE BID INCLUDES COST OF: STORING AND PROTECTING EXISTING AND REPLACEMENT BRICK PAVERS; EXCAVATING, REMOVING, REDRESSING, CLEANING AND RESETTING EXISTING BRICK PAVERS; REDRESSING, CLEANING AND SETTING EXISTING BRICK PAVERS SALVAGED AND IMPORTED FROM OTHER LOCATIONS; CLEANING AND INSTALLING REPLACEMENT BRICK PAVERS; CUTTING BRICK PAVERS; EXPANSION JOINTS; PREMOULDED EXPANSION JOINT MATERIAL; CAULKING SEALANT; EXCAVATION INCLUDING HAND EXCAVATION; PAVEMENT SAW CUTTING; COARSE SAND SETTING BED; FILLING JOINTS WITH POLYMERIC JOINTING SAND OR MORTAR MIXTURE; WATER; ACID WASH; PROTECTION OF WORK FROM DAMAGE, VANDALISM, THEFT OR OTHER MISHAP; AND FURNISHING ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE WORK.

UNIT PRICE BID INCLUDES COST OF: FURNISHING AND DELIVERING NEW REPLACEMENT BRICK PAVERS;

UNIT PRICE BID INCLUDES COST OF: EXCAVATING, REMOVING AND DELIVERING EXISTING BRICK PAVERS FROM OTHER LOCATIONS;

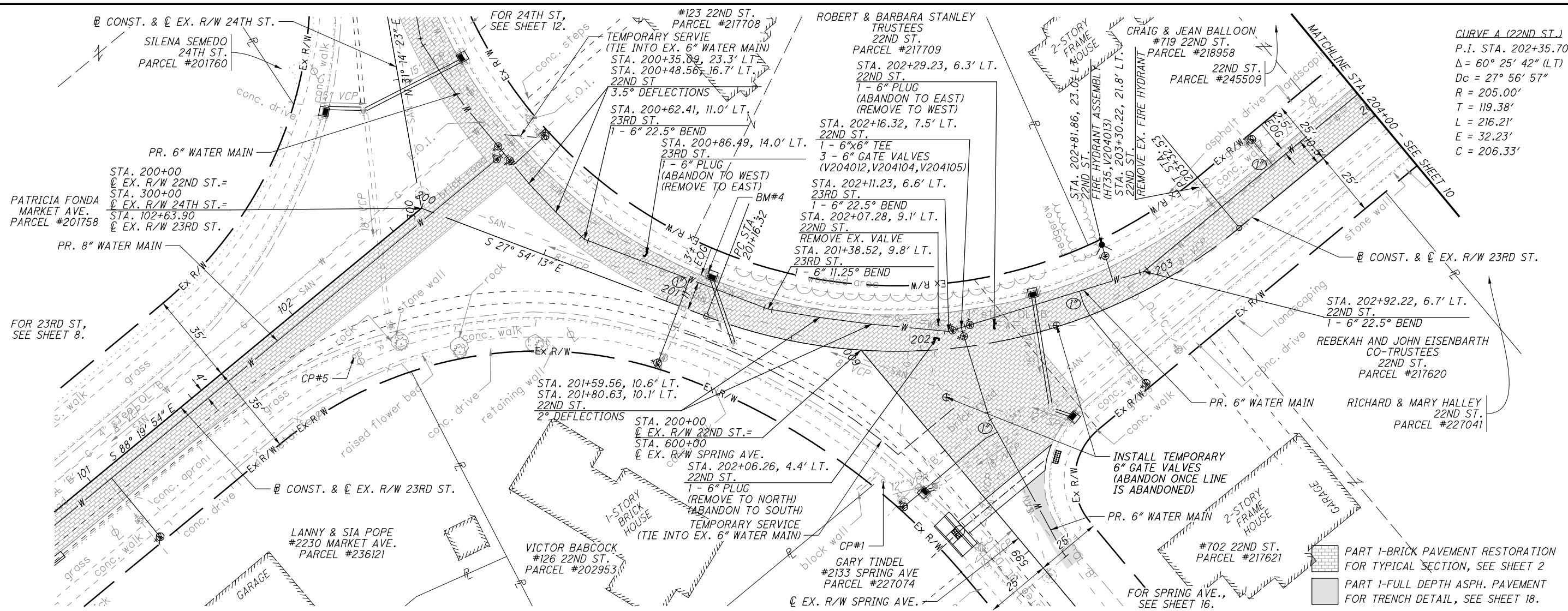
PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF BRICK PAVEMENT RESTORATION.

J:\16-128_Ridgewood E\5.0 Design (Work) Phase\STA\16128\roadway\sheets\16128GP100-w.dgn 6/21/2018 9:48:15 AM william.croxton" ODOTV81_PDF_Half.pltctg ODOTV81_Pen-ME.tbl IBI Group



RIDGEWOOD EAST PH.1
PART 1: WATER
PLAN AND PROFILE - 23RD ST.
STA. 100+00 TO STA. 102+63.90

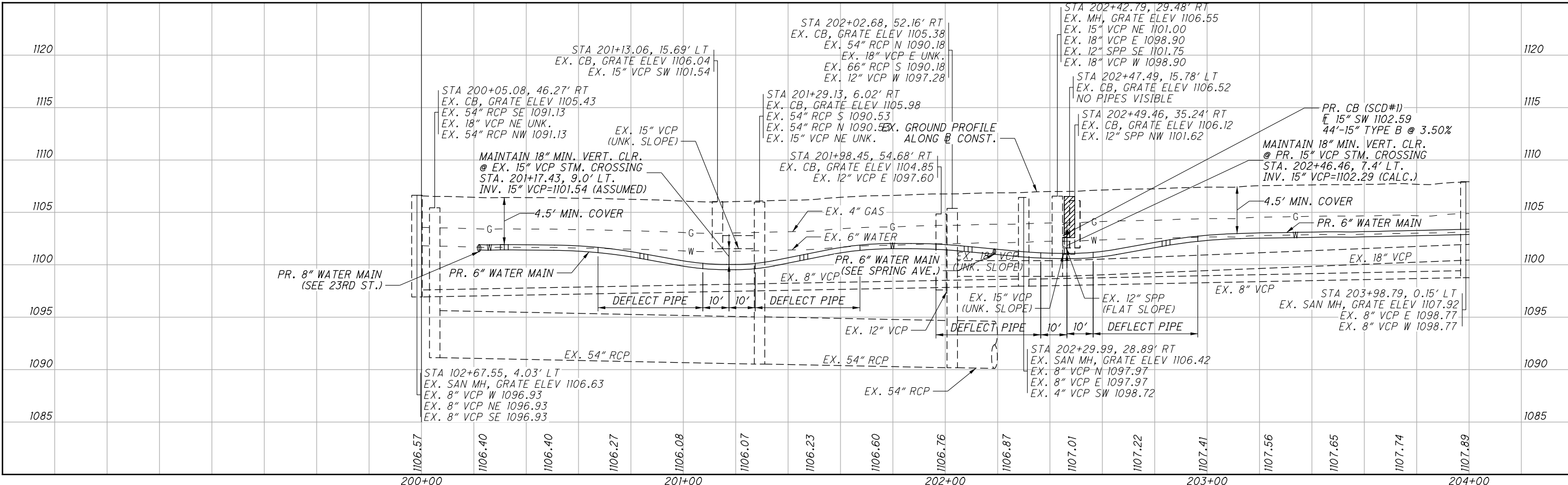
J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP200-W.dgn 6/21/2018 9:48:16 AM william.croxton\ODOTV81_PDF_Half.plt\cfig ODOTV81_Pen-ME.tbl IBI Group



CURVE A (22ND ST.)
 P.I. STA. 202+35.70
 $\Delta = 60^\circ 25' 42''$ (LT)
 $D_c = 27^\circ 56' 57''$
 $R = 205.00'$
 $L = 119.38'$
 $T = 216.21'$
 $E = 32.23'$
 $C = 206.33'$

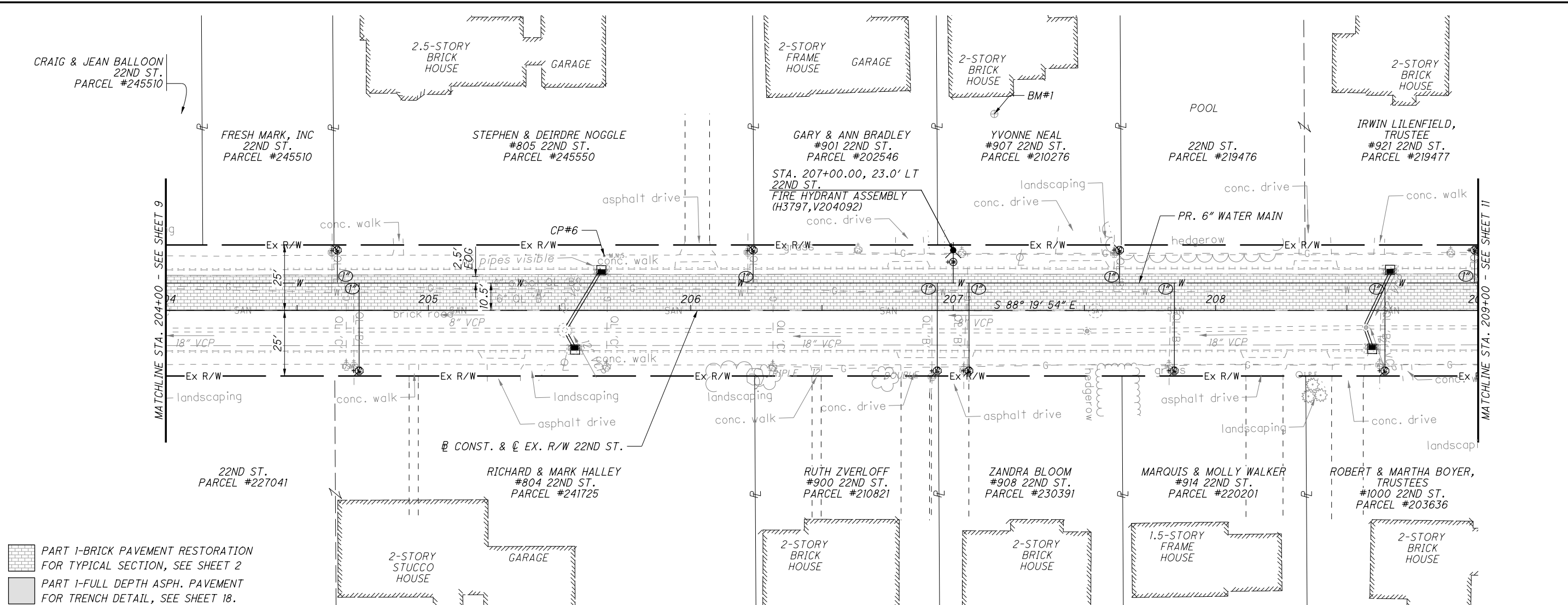




PLAN AND PROFILE - 22ND ST.
 STA. 200+00 TO STA. 204+00

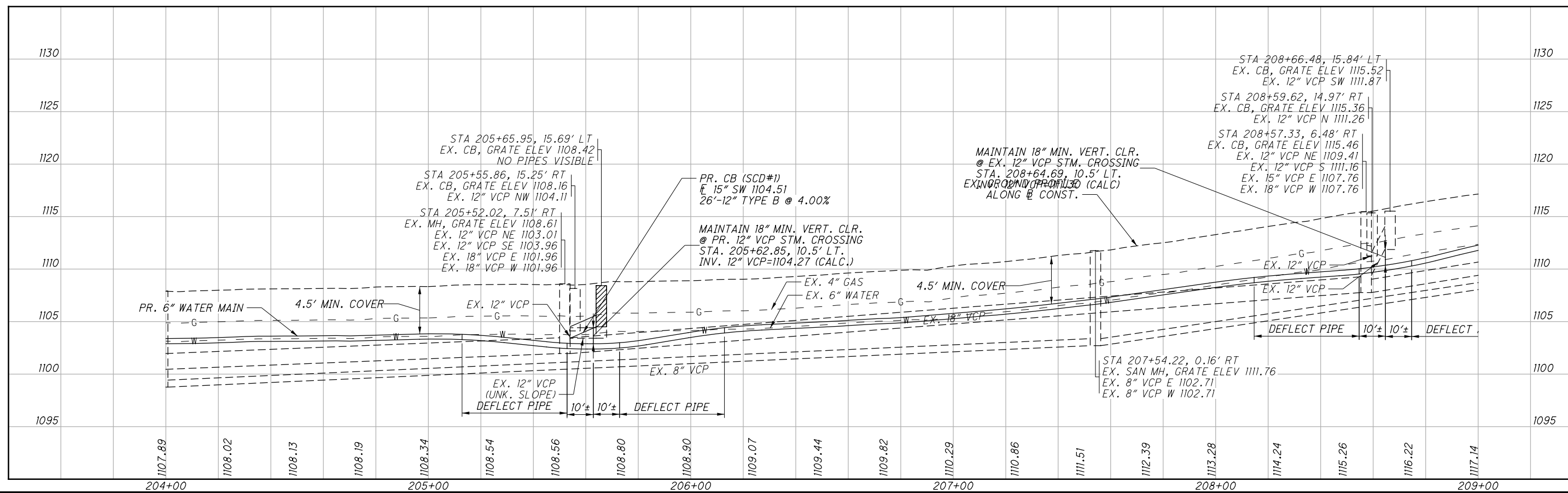



RIDGEWOOD EAST PH.1
 PART 1: WATER

J:\16-128_RidgeWood EA\5.0 Design (Work) Phase\STA\16128\roadway\sheets\16128GP201-W.dgn 6/21/2018 9:48:17 AM william.croxton ODOTV81_PDF_Half.pltcf ODOTV81_Pen-ME.tbl IBI Group



-  PART 1-BRICK PAVEMENT RESTORATION FOR TYPICAL SECTION, SEE SHEET 2
-  PART 1-FULL DEPTH ASPH. PAVEMENT FOR TRENCH DETAIL, SEE SHEET 18.





10
21

ODOTV81_PDF_Half.pltcfg ODOTV81_Pen-ME.tbl IBI Group

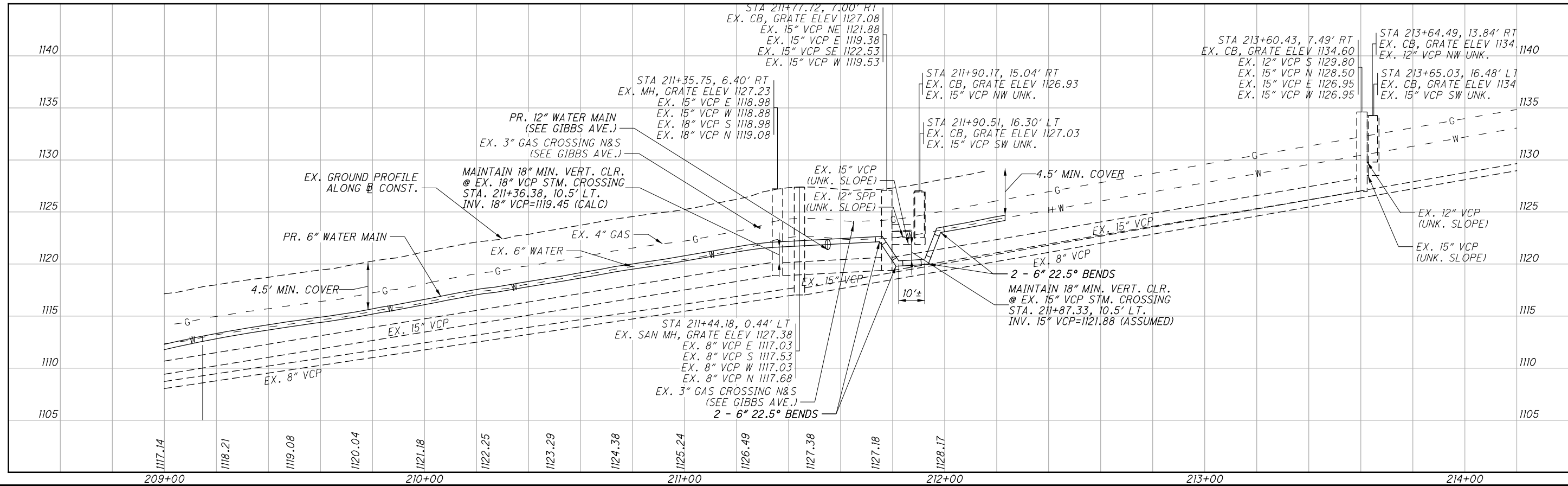
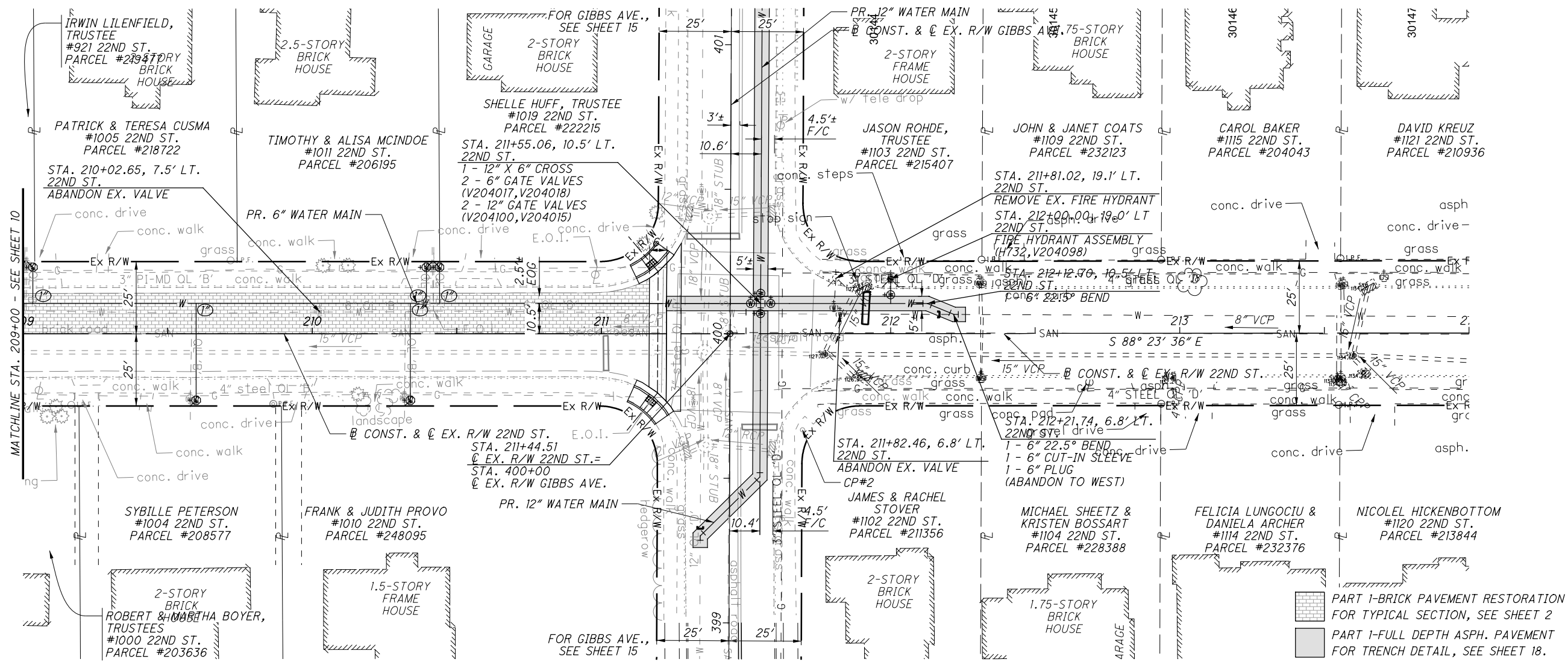
WLC
CHECKED
RMH

SCALE IN FEET
HORIZONTAL
1" = 40'

PLAN AND PROFILE - 22ND ST.
STA. 204+00 TO STA. 209+00

RIDGEWOOD EAST PH.1
PART 1: WATER

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP202-W.dgn 6/21/2018 9:48:18 AM william.croxton\ODOTV8i_PDF_Half.plt\fig ODOTV8i_Pen-NE.tbl IBI Group



PLAN AND PROFILE - 22ND ST. - STA. 209+00 TO STA. 214+00

RIDGEWOOD EAST PH.1

PART 1: WATER

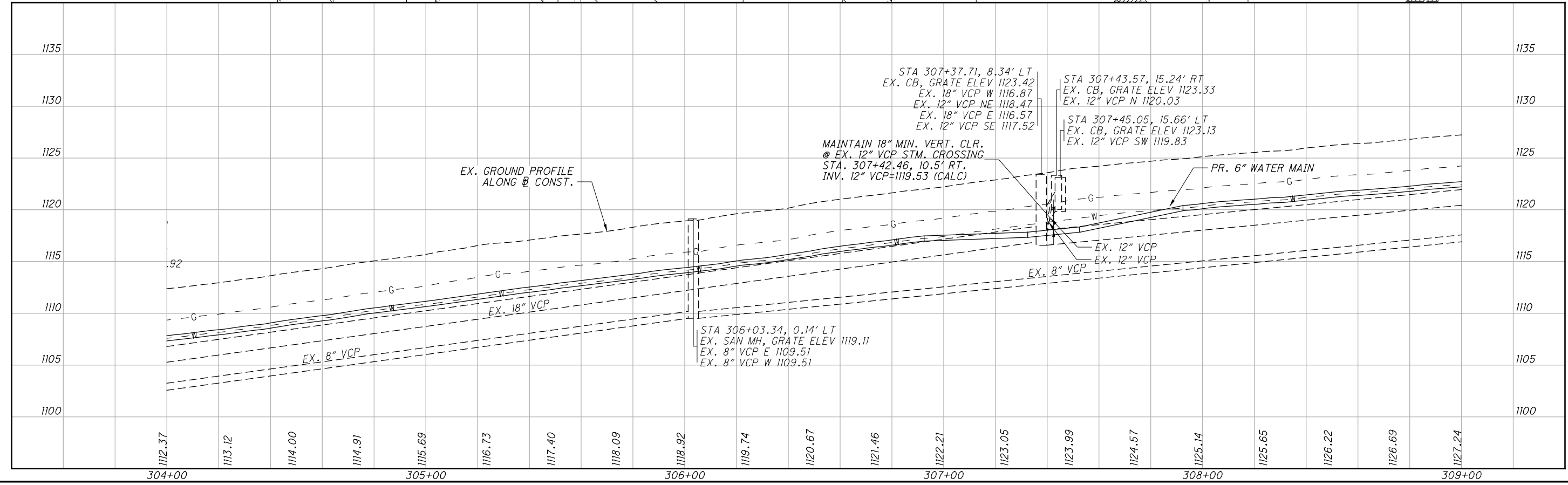
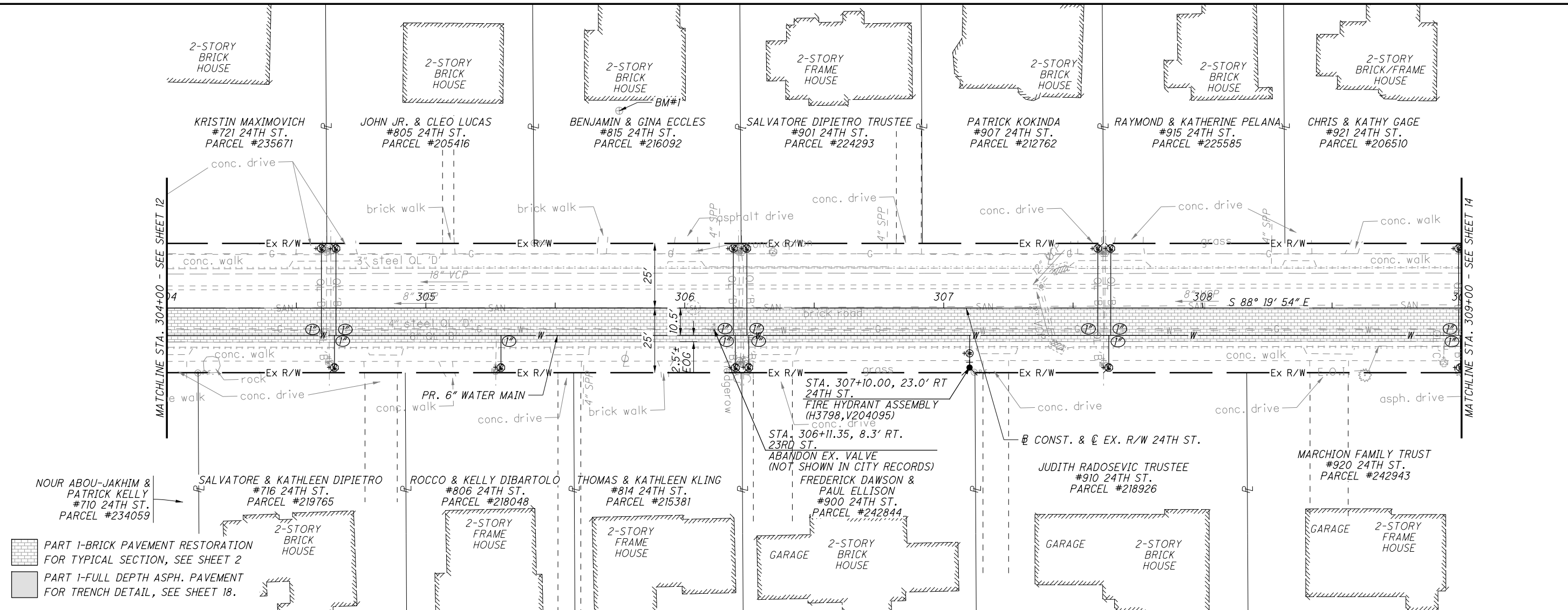
CALCULATED
WLC

CHECKED
RMH

0 20 40
HORIZONTAL
SCALE IN FEET

11
21

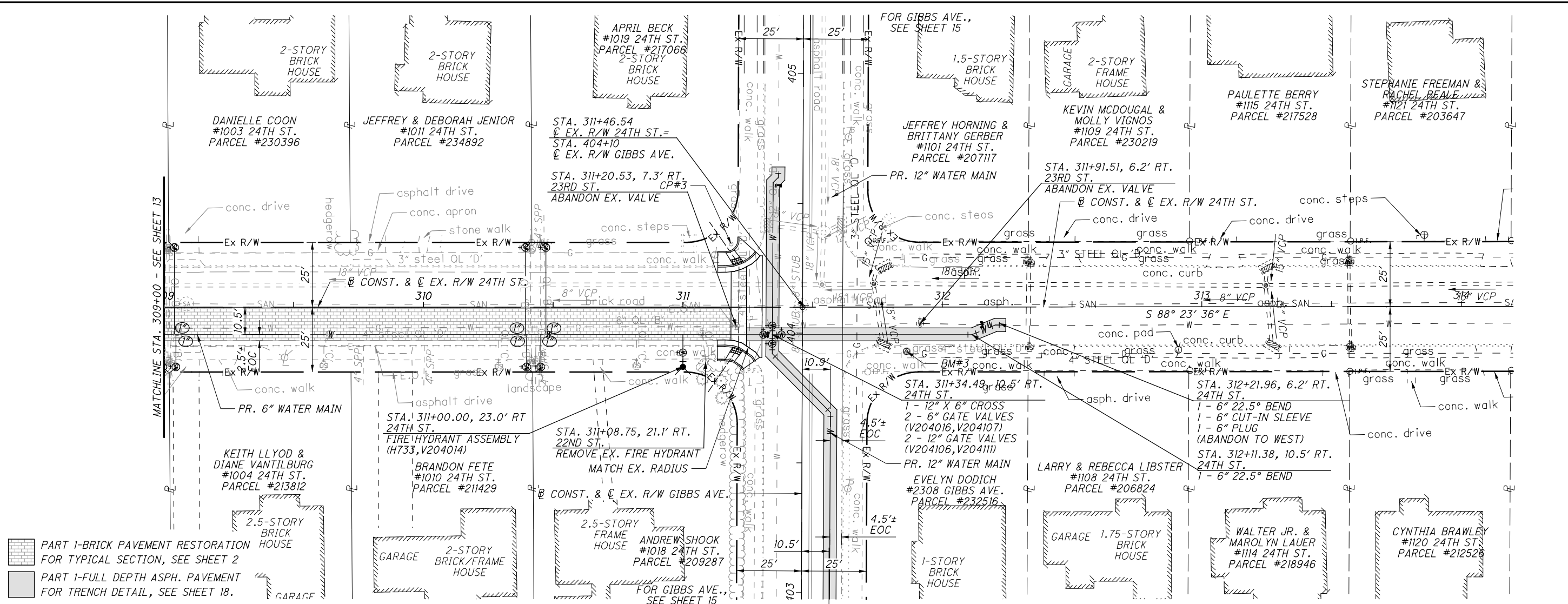
J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP301-W.dgn 6/21/2018 9:48:24 AM william.croxton" ODOTV8i_PDF_Half_plt.ctb ODOTV8i_Pen-NE.tbl IBI Group



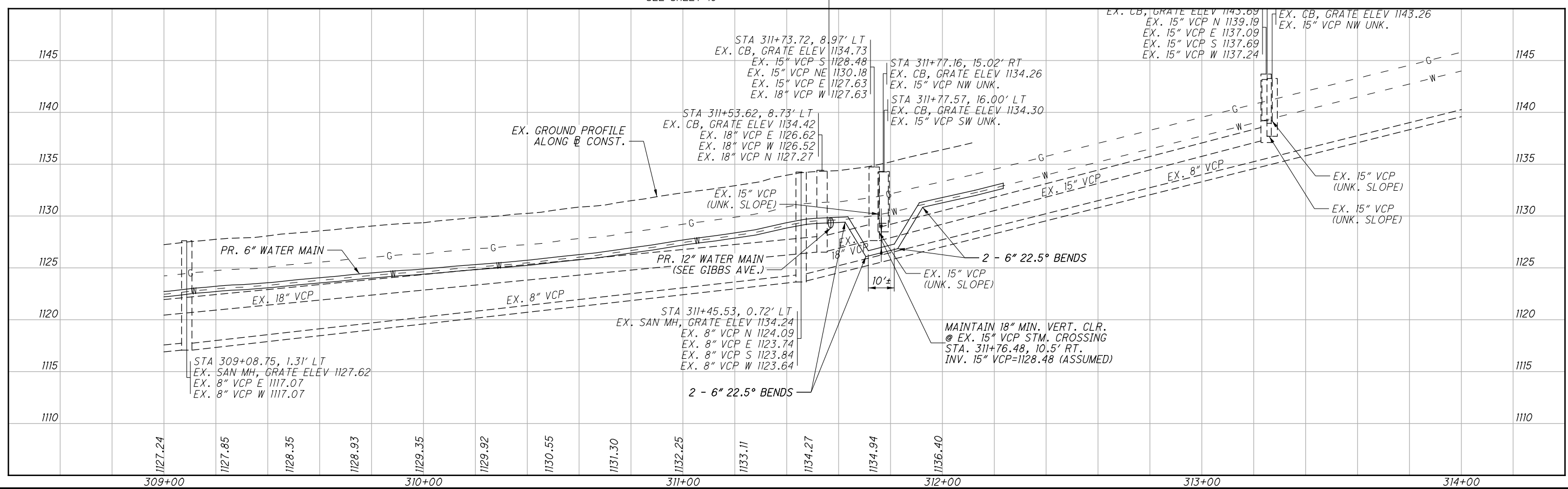
PLAN AND PROFILE - 24TH ST.
STA. 304+00 TO STA. 309+00

RIDGEWOOD EAST PH.1
PART 1: WATER

J:\16-128_RidgeWood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP302-W.dgn 6/21/2018 9:48:25 AM william.croxton\ODOTV81_PDF_half.plt\cfig ODOTV81_Pen-ME.tbl IBI Group

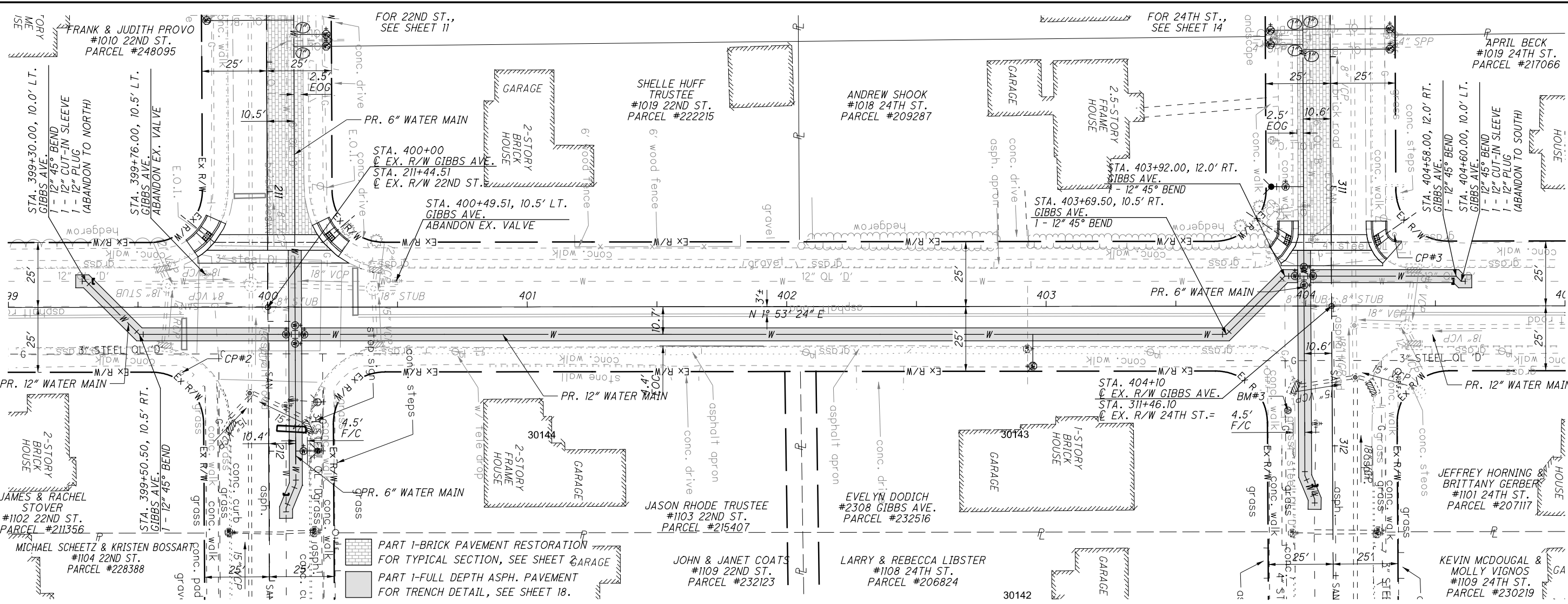


PART 1-BRICK PAVEMENT RESTORATION FOR TYPICAL SECTION, SEE SHEET 2
 PART 1-FULL DEPTH ASPH. PAVEMENT FOR TRENCH DETAIL, SEE SHEET 18.

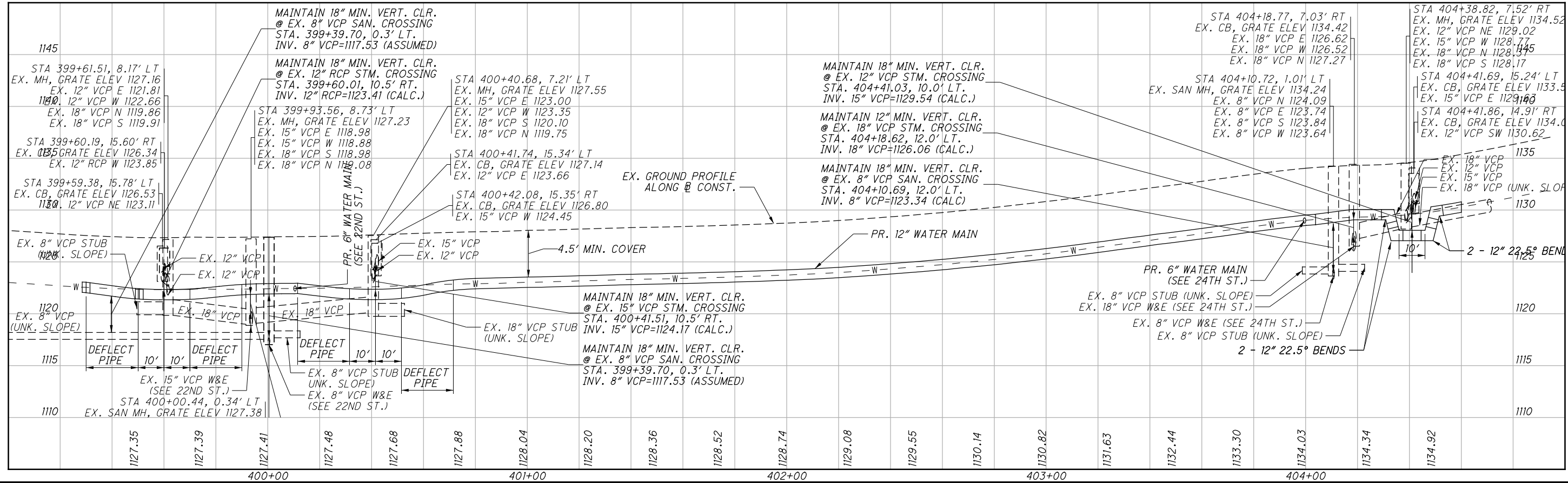


RIDGEWOOD EAST PH.1
 PART 1: WATER
 PLAN AND PROFILE - 24TH ST.
 STA. 309+00 TO STA. 314+00

J:\16-128_Ridgewood EA\5.0 Design (Work) Phase\STA\16128\roadway_sheets\16128GP400-W.dgn 6/21/2018 9:48:25 AM william.croxton' ODOTV81_PDF_half_pltfcg ODOTV81_Pen-ME.tbl IBI Group



PART 1-BRICK PAVEMENT RESTORATION
 FOR TYPICAL SECTION, SEE SHEET 18.
 PART 1-FULL DEPTH ASPH. PAVEMENT
 FOR TRENCH DETAIL, SEE SHEET 18.



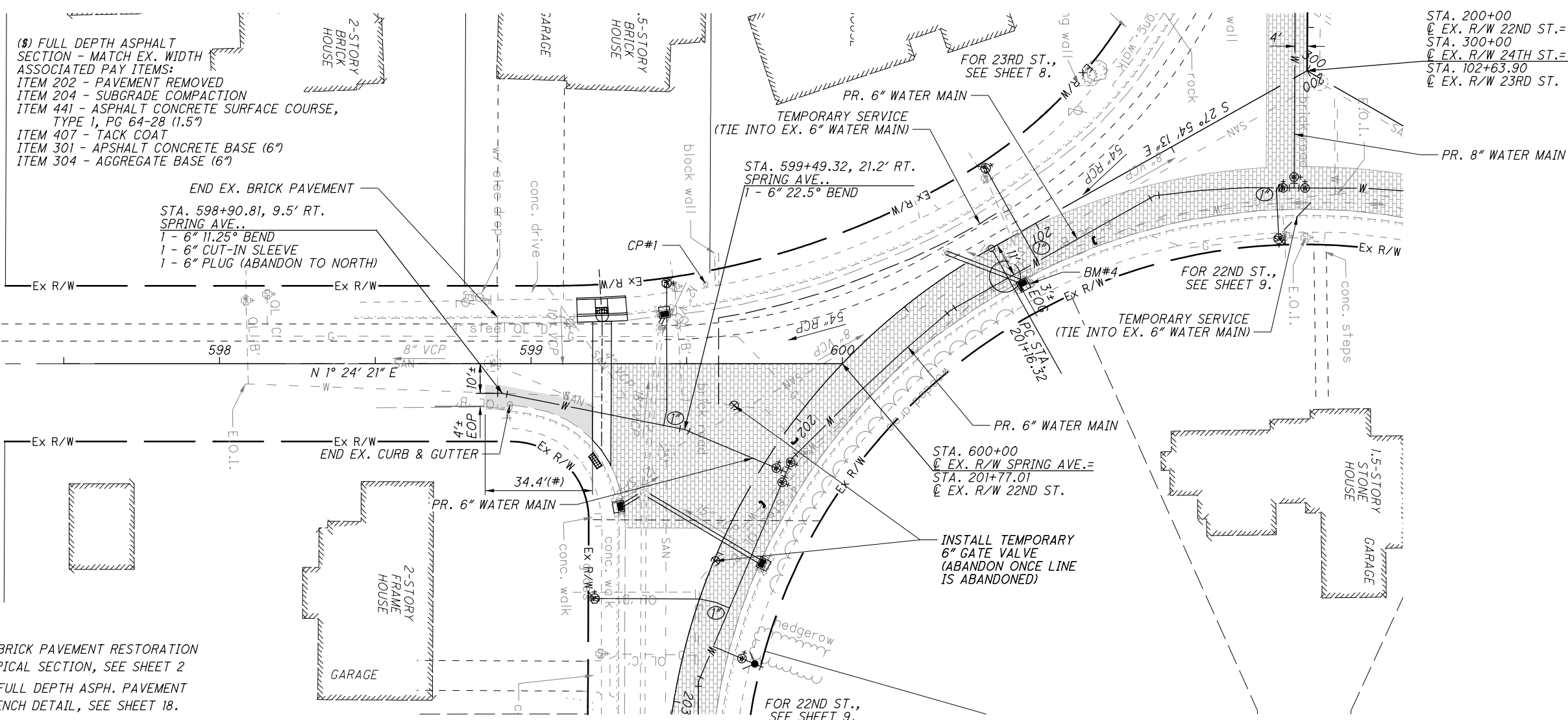
RIDGEWOOD EAST PH.1
 PART 1: WATER
 PLAN AND PROFILE - GIBBS AVE.
 STA. 399+00 TO STA. 405+00

15
21

CALCULATED WLC
 CHECKED RMH

HORIZONTAL SCALE IN FEET
 0 20 40

J:\16-128_Ridgewood E\5.0 Design (Work) Phase\STA\16128\roadway\sheets\16128GP500-W.dgn 6/21/2018 9:48:26 AM william.croxton ODOTV81_PDF_Half.pltcfgr ODOTV81_Pen-ME.tbl IBI Group



(S) FULL DEPTH ASPHALT SECTION - MATCH EX. WIDTH ASSOCIATED PAY ITEMS:
 ITEM 202 - PAVEMENT REMOVED
 ITEM 204 - SUBGRADE COMPACTION
 ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-28 (1.5")
 ITEM 407 - TACK COAT
 ITEM 301 - ASPHALT CONCRETE BASE (6")
 ITEM 304 - AGGREGATE BASE (6")

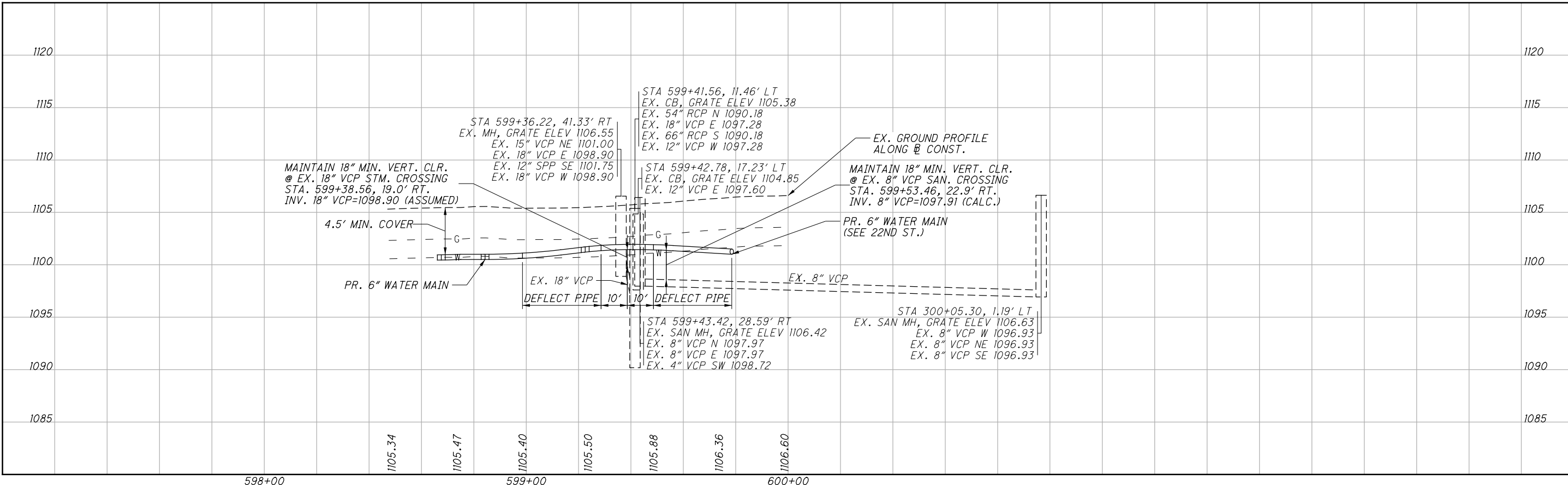
END EX. BRICK PAVEMENT
 STA. 598+90.81, 9.5' RT.
 SPRING AVE..
 1 - 6" 11.25° BEND
 1 - 6" CUT-IN SLEEVE
 1 - 6" PLUG (ABANDON TO NORTH)

STA. 599+49.32, 21.2' RT.
 SPRING AVE..
 1 - 6" 22.5° BEND

STA. 600+00
 @ EX. R/W SPRING AVE.=
 STA. 201+77.01
 @ EX. R/W 22ND ST.

STA. 200+00
 @ EX. R/W 22ND ST.=
 STA. 300+00
 @ EX. R/W 24TH ST.=
 STA. 102+63.90
 @ EX. R/W 23RD ST.

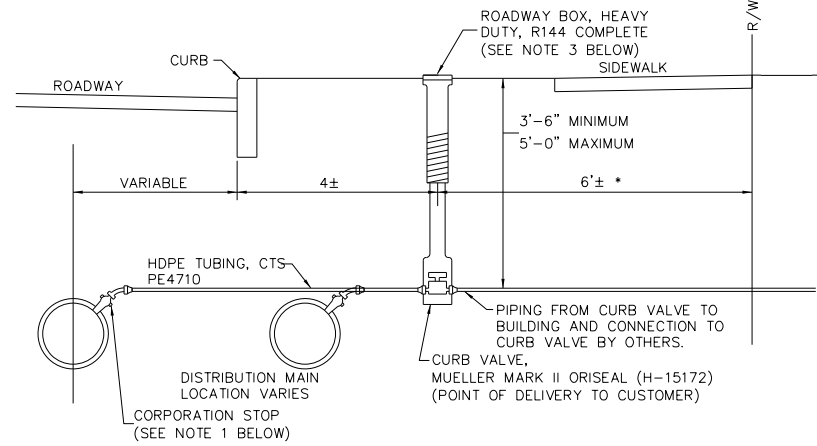
PART 1-BRICK PAVEMENT RESTORATION FOR TYPICAL SECTION, SEE SHEET 2
 PART 1-FULL DEPTH ASPH. PAVEMENT FOR TRENCH DETAIL, SEE SHEET 18.



PLAN AND PROFILE - SPRING AVE.
 STA. 597+50 TO STA. 600+00

RIDGEWOOD EAST PH.1
 PART 1: WATER

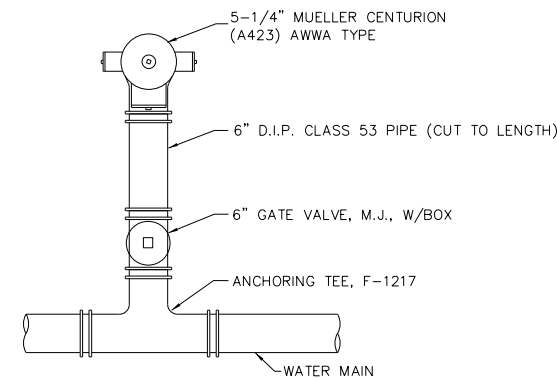
J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GM001-W.dgn 6/21/2018 9:48:27 AM william.croxton" ODOTV81_PDF_Half.pltcfq ODOTV81_Pen-ME.tbl IBI Group



NOTES:

- CORPORATION STOP AND ASSEMBLY SHALL BE AS FOLLOWS:
 1" CORP. STOP ON DIP: INSTALL AT A 45° ANGLE, A MUELLER H-15000 CORPORATION STOP WITH A MUELLER H-15075 ELBOW.
 1" CORP. STOP ON PVC C909: INSTALL AT A 45° ANGLE, A MUELLER H-15000 CORPORATION STOP WITH A MUELLER H-15075 ELBOW AND A FORD, STAINLESS STEEL, EPOXY COATED TAPPING SADDLE (FC202 STYLE).
 1 1/2" OR 2" CORP. STOP: INSTALL AT A 45° ANGLE, A MUELLER H-10003 CORPORATION STOP WITH 2" IRON TOP, A STANDARD NO LEAD BRASS 45° ELBOW AND A MUELLER H-15428 COMPRESSION MALE WITH INSERT COUPLING. ASSEMBLY SHALL ALSO CONSIST OF A FORD, STAINLESS STEEL, EPOXY COATED TAPPING SADDLE (FC202 STYLE).
- A SERVICE CLAMP MUST BE USED WHEN THE MAIN SIZE IS 2 INCH OR SMALLER.
- HEAVY DUTY VALVE BOXES, COMPLETE, MUST BE USED IN PLACE OF ROADWAY BOXES WHEN LOCATED IN ROADWAYS OR ASPHALT DRIVES.
- APPROVED EQUALS MAY BE USED IN PLACE OF SPECIFIED ITEMS.

TYPICAL WATER SERVICE (C94)



HYDRANT SETTINGS CONSIST OF HYDRANT, VALVE, VALVE BOX, FITTINGS AND MATERIALS SHOWN OR SPECIFIED WHICH ARE NEEDED FOR PROPER INSTALLATION.

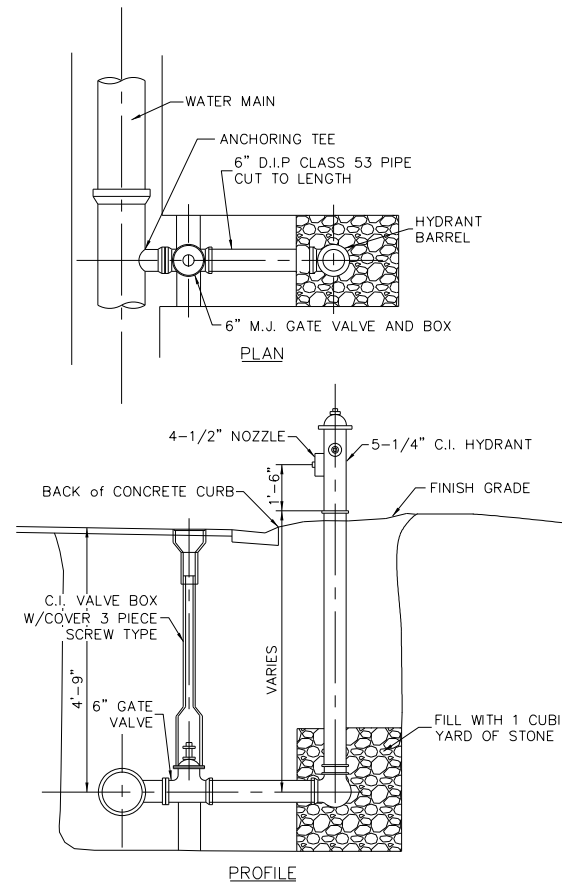
SEE SPECIFICATIONS FOR MORE INFORMATION ABOUT MATERIALS, SETTING HYDRANTS AND DRAINAGE REQUIREMENTS.

IF RESTRAINED JOINT FITTINGS CANNOT BE USED, (2) TIE RODS AND (4) EYE BOLTS WITH NUTS AND WASHERS MUST BE USED.

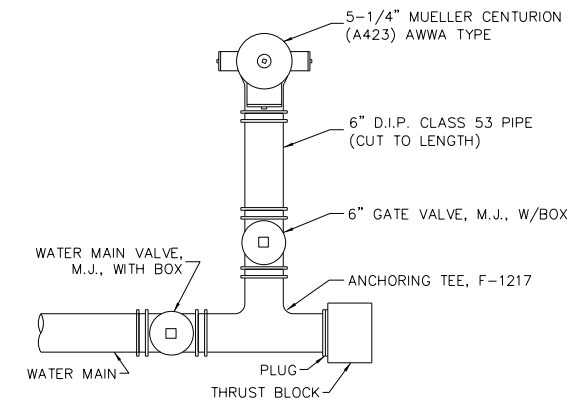
FIGURES SUCH AS F-1217 INDICATE CLOW CORPORATION STYLES. USE THIS BRAND OR APPROVED EQUAL.

ALL HYDRANTS ARE TO BE INSTALLED WITH THE PUMPER NOZZLE FACING THE STREET.

HYDRANT CONNECTION (C70)



HYDRANT SETTING (C71)



THRUST AT FITTINGS AT 100 PSI	
MAIN SIZE	TOTAL POUNDS
6	3,739
8	6,433
10	9,677
12	13,685
14	18,385
16	23,779
18	29,865
20	36,644
24	52,279

HYDRANT SETTINGS CONSIST OF HYDRANT, VALVE, VALVE BOX, FITTINGS AND MATERIALS SHOWN OR SPECIFIED WHICH ARE NEEDED FOR PROPER INSTALLATION.

SEE SPECIFICATIONS FOR MORE INFORMATION ABOUT MATERIALS, SETTING HYDRANTS AND DRAINAGE REQUIREMENTS.

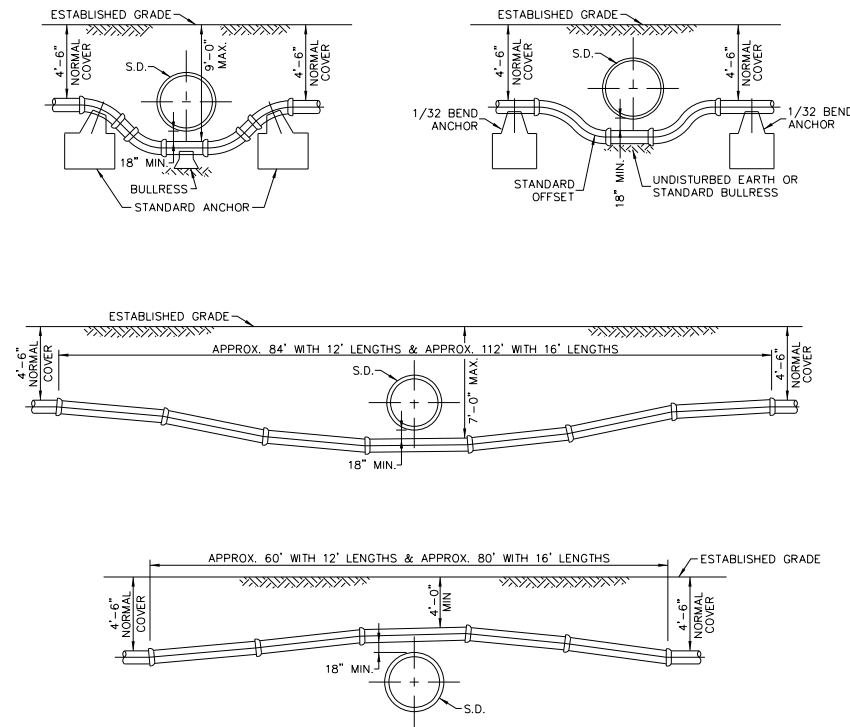
IF RESTRAINED JOINT FITTINGS CANNOT BE USED, (2) TIE RODS AND (4) EYE BOLTS WITH NUTS AND WASHERS MUST BE USED.

FIGURES SUCH AS F-1217 INDICATE CLOW CORPORATION STYLES. USE THIS BRAND OR APPROVED EQUAL.

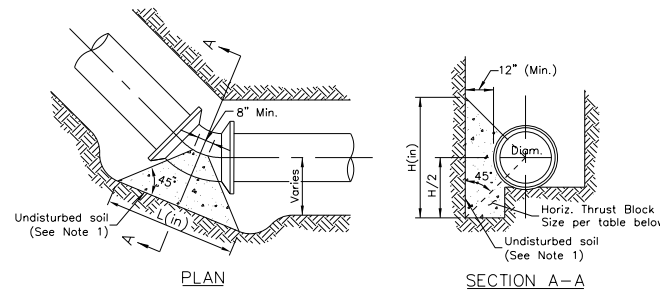
ALL HYDRANTS ARE TO BE INSTALLED WITH THE PUMPER NOZZLE FACING THE STREET.

HYDRANT CONNECTION AT END OF MAIN (C383)

J:\16-128_Ridgewood E\5.0 Design (Work) Phase\STA\16128\roadway\sheets\16128GM002-W.dgn 6/21/2018 9:48:27 AM william.croxton' ODOTV8i_PDF_Half.pltcfgr ODOTV8i_Pen-ME.tb |BI Group



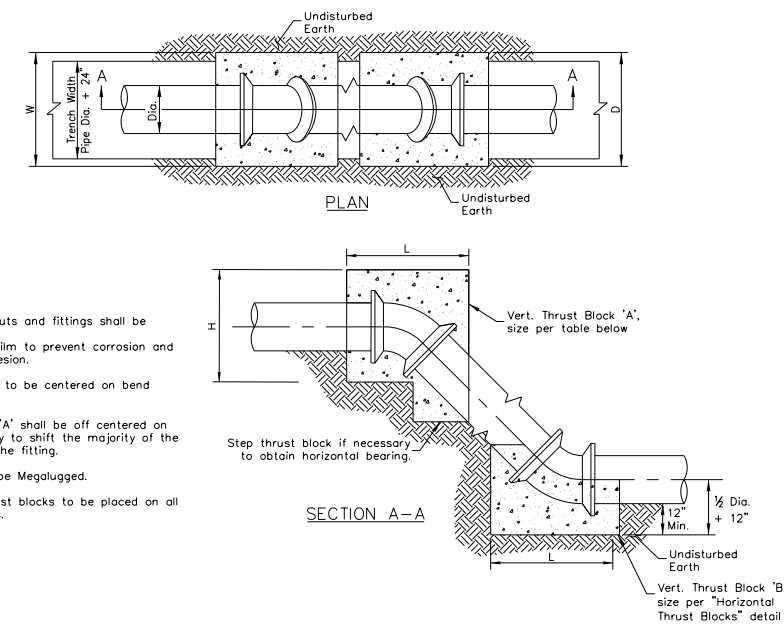
WATER MAIN CROSSING STORM DRAIN
(C187)



- NOTES:**
- Thrust blocks shall be placed against undisturbed soil. Where it is not possible, the fill between the bearing surface and undisturbed soil must be compacted to at least 90% Standard Proctor density.
 - Pipe, bolts, nuts and fittings shall be wrapped with polyethylene film to prevent corrosion and concrete adhesion.
 - All joints to be Megalugged.

SIZE OF PIPE	DEGREE OF BEND							
	11 1/4'		22 1/2'		45'		90'	
	L	H	L	H	L	H	L	H
6"	16	8	16	10	24	14	32	18
8"	16	10	21	14	31	18	44	24
12"	21	16	32	20	48	26	66	36
16"	29	20	42	28	66	34	90	46
20"	37	24	50	36	73	48	107	60
24"	46	28	64	40	93	54	128	72

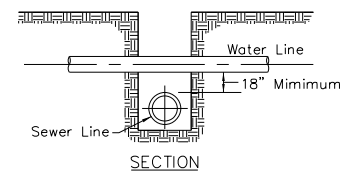
HORIZONTAL THRUST BLOCKS
(C130)



- NOTES:**
- Pipe, bolts, nuts and fittings shall be wrapped with polyethylene film to prevent corrosion and concrete adhesion.
 - Thrust block 'A' shall be centered on bend horizontally.
 - Thrust block 'A' shall be off centered on bend vertically to shift the majority of the block above the fitting.
 - All joints to be Megalugged.
 - Concrete thrust blocks to be placed on all vertical bends.

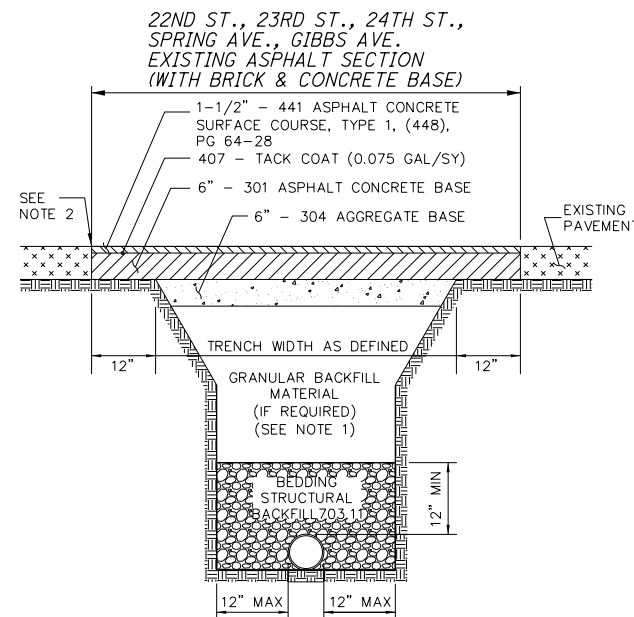
SIZE OF PIPE	DEGREE OF BEND											
	11 1/4'				22 1/2'				45'			
	L	W	H	V (cy)	L	W	H	V (cy)	L	W	H	V (cy)
6"	12	48	18	0.2	15	43	36	0.5	28	55	24	0.8
8"	12	63	24	0.4	18	57	34	0.7	36	57	33	1.4
12"	20	54	36	0.8	37	62	37	1.7	48	62	51	3.1
16"	31	65	38	1.6	55	65	39	3.0	65	65	65	5.6
20"	40	56	50	2.4	57	66	59	4.8	82	74	68	8.8
24"	48	60	60	3.5	67	72	66	6.9	91	91	72	12.7

CONCRETE THRUST BLOCKS FOR VERTICAL BENDS ON WATER MAINS
(POURED IN PLACE, CLASS C)
(C147)



- NOTES:**
- If joint on water main is within limits of sewer trench, install mechanical bell joint clamp
 - If clearance is less than 18", encase sewer pipe 6 ft. each side of water main. Cost shall be included in the unit prices bid for all items in the proposal.
 - In no case shall the sewer pipe contact any water main, service line or appurtenance.

VERTICAL WATER MAIN CLEARANCE
(C186)



- NOTES:**
- CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION WITHIN THE RIGHT-OF-WAY REGARDING BACKFILL REQUIREMENTS.
 - SAW CUT EXISTING PAVEMENT, SEAL JOINT PER ODOT ITEM 423 - CRACK SEALING, TYPE IV. INCLUDE COST IN BID PRICE FOR THE PROPOSED PAVEMENT.
 - IF ADJACENT PAVEMENT IS DAMAGED OR UNDERMINED DURING CONSTRUCTION, ADDITIONAL PAVEMENT SHALL BE SAW CUT AND REMOVED IN ORDER TO PROVIDE A SOUND PAVEMENT EDGE.
 - IN THE EVENT THAT THE SAW CUT WOULD LIE WITHIN 3 FEET OF THE EDGE OF PAVEMENT OR FACE OF CURB, THE PAVEMENT REPLACEMENT SHALL EXTEND TO THE EDGE OF PAVEMENT OR FACE OF CURB

PAY LIMITS - TRENCH & ROADWAY DETAIL
FOR D.I.P.
(C175)

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GM003-W.dgn 6/21/2018 9:48:28 AM william.croxton\ODOTV81_PDF_Half.pltcfwg ODOTV81_Pen-ME.tb |BI Group

NOTES:

1. **BEDDING:**
MATERIALS SHALL BE AASHTO M 43 NO. 56, 57, OR 67 CRUSHED STONE. NO ALTERNATES UNLESS APPROVED BY THE CITY ENGINEER. PRIVATE UTILITIES MAY TYPICALLY PROVIDE ALTERNATIVE BEDDING MATERIAL AS APPROVED BY THE CITY ENGINEER.

BEDDING WIDTH TABLE		
PIPE TYPE	MIN. WIDTH, TYP.	MAX. WIDTH, TYP.
NON-RIGID PIPE (PVC, HDPE, CMP, ALUMINUM)	PIPE I.D. x 1.25 + 1'-0"	PIPE O.D. + 2'-0"
RIGID PIPE (CONC., VIT. CLAY, DUCTILE IRON)	PIPE I.D. x 1.33	PIPE O.D. + 2'-0"

CENTER PIPE HORIZONTALLY WITHIN BEDDING AREA. ANY DEVIATION TO TYPICAL BEDDING REQUIREMENTS ARE SUBJECT TO THE DISCRETION OF THE CITY ENGINEER.

THE BEDDING LIMITS SHOWN APPLY IN ALL CASES EXCEPT FOR WHEN PIPE MANUFACTURER SPECIFICS A BEDDING WIDTH DIFFERENT FROM THAT SHOWN AND THE CITY ENGINEER PERMITS SAME.

2. **BACKFILL:**
BACKFILL WITHIN THE PUBLIC STREET RW:
MATERIALS SHALL BE ODOT 703.11, TYPE 1* GRANULAR MATERIAL (D04, 411, OR 617 AGGREGATE GRADATION) OR TYPE 2* GRANULAR MATERIAL, OR ODOT 613, LOW STRENGTH MORTAR. DEVIATIONS FROM THIS ARE AS FOLLOWS:
A) NO FOUNDRY SAND OR SLAG IS PERMITTED.
B) ALTERNATE* GRANULAR MATERIAL SHALL BE PERMITTED ONLY WITH THE SUPPLEMENTAL APPROVAL OF THE CITY ENGINEER. TO PETITION FOR SUCH SUPPLEMENTAL APPROVAL, THE DEVELOPER/CONTRACTOR SHALL SUBMIT IN WRITING THE FOLLOWING:
* SOURCE OF THE ALTERNATE BACKFILL MATERIAL.
* GRADATION REPORT IN ACCORDANCE WITH AASHTO T 11 AND T 27.
* PROCTOR CURVE ANALYSIS IN ACCORDANCE WITH ASTM D 698.
* PROPOSED COMPACTION METHOD.
THE CITY ENGINEER RESERVES THE RIGHT TO REFUSE ANY ALTERNATE BACKFILL MATERIAL, REGARDLESS OF APPROVAL OF SIMILAR MATERIAL ON A PREVIOUS PROJECT.
THE CITY ENGINEER FURTHER RESERVES THE RIGHT TO REFUSE ANY ALTERNATE BACKFILL MATERIAL THE CITY FINDS NOT CONSISTENT WITH THE APPROVED SOURCE, GRADATION REPORT, PROCTOR REPORT, OR COMPACTION METHOD.
C) ODOT 703.11, TYPE 2, OR ALTERNATE MATERIALS ARE NOT PERMITTED WITHIN 4 FEET OF THE TRENCH SURFACE, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

BACKFILL OUTSIDE OF THE PUBLIC STREET RW:
FOLLOW MATERIAL AND METHODS FOR BACKFILL IN ACCORDANCE WITH ODOT 603.

NOTES: (CONTINUED)

3. **COMPACTION:**
ALL BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12-INCHES LOOSE DEPTH AND COMPACTED BY APPROVED MECHANICAL MEANS. JETTING IS NOT APPROVED WITHOUT THE CITY ENGINEER'S APPROVAL. BUCKET COMPACTION MUST BE SUPPLEMENTED WITH VIBRATION OR TAMPING EQUIPMENT AS DIRECTED. ANY MODIFICATIONS TO THESE REQUIREMENTS MUST BE APPROVED BY THE CITY ENGINEER.

4. **SURFACE:**
TRENCHES SHALL BE TOPPED WITH 4\" OF ODOT 304 LIMESTONE OR ASPHALT GRINDINGS WITHIN EXISTING STREET PAVEMENTS WHEN THE TRENCH TOPPING MATERIAL SHALL BE ROLLED OR OTHERWISE COMPLETED FLUSH WITH THE ADJOINING PAVEMENT.
CONCRETE OR ASPHALT STREET PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH CITY STD. DWG. NO. 32. BRICK OR ASPHALT-BRICK COMPOSITE STREET PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH CITY STD. DWG. NO. 31.
SIDEWALK, CURB, AND DRIVEWAY RESTORATION:
DRIVEWAY SURFACES SHALL BE REPLACED IN ACCORDANCE WITH THE CURRENT EDITION OF THE CITY OF CANTON SPECIFICATIONS FOR THE CONSTRUCTION, REPAIR, AND REPLACEMENT OF SIDEWALKS, CURBS, AND DRIVEWAYS, AND CITY STD. DWG. NOS. 28 THRU 33.
LAWN RESTORATION:
LAWN SURFACES SHALL BE REPLACED WITH A MINIMUM OF 4\" TOPSOIL, SEED, AND MULCHED. SEED MIX SHALL CONFORM TO ADJOINING LAWN GRASS.

5. **CONSTRUCTION METHODS FOR BEDDING AND BACKFILL SHALL CONFORM WITH ODOT 603, UNLESS STATED OTHERWISE HEREIN.**

6. **ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.**

REVISIONS			
DESCRIPTION	DATE	BY	
REVISIONS TO NOTES 7 & 8	6/4/2012	CDB	
REVISIONS TO NOTES 7	6/19/2013	CDB	

STANDARD DRAWING NO. 19
UTILITY TRENCH REQUIREMENTS
SHEET 1 OF 2

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: JAN 2012
APPROVED BY: CDB, RMB, SLH
DRAWING FILE NAME: ce_19.dwg

NOTES: (CONTINUED)

7. **PAY LIMITS FOR CITY PROJECTS**

A) **BEDDING AND BACKFILL** IS INCLUDED WITH THE COST OF PIPE UNLESS DIRECTED TO BID OTHERWISE.

B) **PAVEMENT RESTORATION** IS INCLUDED WITH THE COST OF PIPE UNLESS A SEPARATE PAY ITEM IS PROVIDED, WHEREBY THE WIDTH MEASUREMENT OVER THE TRENCH FOR PAVEMENT RESTORATION SHALL NOT EXCEED THE OUTSIDE DIAMETER (O.D.) OF PIPE PLUS A SET MEASUREMENT DEPENDENT ON DEPTH OF PIPE. AREA MEASUREMENTS AT MANHOLE AND CATCH BASIN STRUCTURES SHALL NOT EXCEED THE AREA OF THE BASE OF THE STRUCTURE + 3'-0\" OFFSET AREA AROUND THE STRUCTURE'S BASE.

C) **EXTRA FOUNDATION MATERIAL:** THE CONTRACTOR SHALL BE PAID FOR OVER-EXCAVATION AND BEDDING FOUNDATION MATERIAL UNDER THE CONTINGENCY BID ITEMS FOR EXTRA FOUNDATION MATERIAL.

WHEN IN THE OPINION OF THE CITY ENGINEER, SOFT/UNSTABLE MATERIALS ARE ENCOUNTERED WHICH ARE UNSUITABLE FOR BEDDING FOUNDATION, SAID MATERIAL SHALL BE REMOVED BY THE CONTRACTOR TO THE DEPTH DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE MATERIAL.

FOR CITY PROJECTS, THE PAYABLE WIDTH OF THE EXTRA FOUNDATION MATERIAL SHALL NOT EXCEED THE LESSER OF THE APPLICABLE MINIMUM OR MAXIMUM TYPICAL BEDDING WIDTH, AS NOTED ON SHEET 1 OF STD. DWG. NO. 18.

FOR PRIVATE WORK, ALL COSTS ARE AT THE OWNER'S EXPENSE.

EXTRA FOUNDATION MATERIAL, OPTION A, B, C, & D, MAY BE USED IN ANY COMBINATION AS DIRECTED BY THE CITY ENGINEER:

OPTION A: CRUSHED STONE, AASHTO M 43 NO. 1 AND/OR 2
OPTION B: CRUSHED STONE, AASHTO M 43 NO. 56, 57, OR 67
OPTION C: ODOT 703.11, TYPE 1 (304, 411 OR 617 GRADATION)
OPTION D: TENSAR GEOGRID T1100, OR APPROVED EQUAL

EXTRA FOUNDATION MATERIAL, CONTINGENCY BID ITEMS			
ITEM	QTY.	UNIT	DESCRIPTION
603	C.Y.		EXTRA FOUNDATION, OPTION A (#1, #2 STONE)
603	C.Y.		EXTRA FOUNDATION, OPTION B (#56, 57, 67 STONE)
603	C.Y.		EXTRA FOUNDATION, OPTION C (304, 411, 617)
603	S.F.		EXTRA FOUNDATION, OPTION D (GEOGRID)

8. **EXCAVATION OF ROCK OR BURIED/ABANDONED CONCRETE STRUCTURE REMOVAL**

EXCAVATION FOR NEW MANHOLES AND CATCH BASINS: UNLESS OTHERWISE SPECIFIED OR SHOWN ON CONSTRUCTION PLANS, SHALL BE MEASURED BETWEEN VERTICAL PLANES ONE (1) FOOT BEYOND THE OUTSIDE EDGE OF THE FOUNDATION OF THE STRUCTURES ON ALL SIDES, AND PARALLEL THERETO, AND FROM THE SURFACE OF THE ROCK TO THE BOTTOM OF THE ROCK, OR THE NEAR LINES OF THE BOTTOM OF THE STRUCTURES PLUS THE DEPTH OF THE BASE MATERIAL. USE THE MEASUREMENT WHICH IS LESSER.

EXCAVATION FOR NEW PIPES: UNLESS OTHERWISE SPECIFIED OR SHOWN ON CONSTRUCTION PLANS, SHALL BE MEASURED BETWEEN TRENCH WALLS (NOT TO EXCEED PIPE O.D. + 18\" AND FROM THE SURFACE OF THE ROCK TO THE BOTTOM OF THE ROCK OR THE BOTTOM OF THE PIPE BEDDING. USE THE MEASUREMENT WHICH IS LESSER.

EXCAVATION OF BURIED AND ABANDONED CONCRETE STRUCTURES: SHALL BE MEASURED IN THE SAME MANNER AS ROCK REMOVAL.

FOR CITY PROJECTS, THE CONTRACTOR SHALL BE PAID FOR ROCK REMOVAL AND CONCRETE STRUCTURE REMOVAL UNDER THE CONTINGENCY BID ITEMS FOR ROCK OR CONCRETE STRUCTURE REMOVAL. IF A CONTINGENCY BID ITEM IS NOT INCLUDED IN THE BID PROPOSAL, THE CONTRACTOR MAY SUBMIT A PROPOSAL (PRIOR TO WORK BEING STARTED) TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.

FOR PRIVATE WORK, ALL COSTS ARE AT THE OWNER'S EXPENSE.

ROCK AND BURIED & ABANDONED CONCRETE STRUCTURE REMOVAL, CONTINGENCY BID ITEMS			
ITEM	QTY.	UNIT	DESCRIPTION
603		C.Y.	ROCK REMOVAL
603		C.Y.	CONCRETE STRUCTURE REMOVAL

REVISIONS			
DESCRIPTION	DATE	BY	
REVISIONS TO NOTES 7 & 8	6/4/2012	CDB	
REVISIONS TO NOTES 7	6/19/2013	CDB	

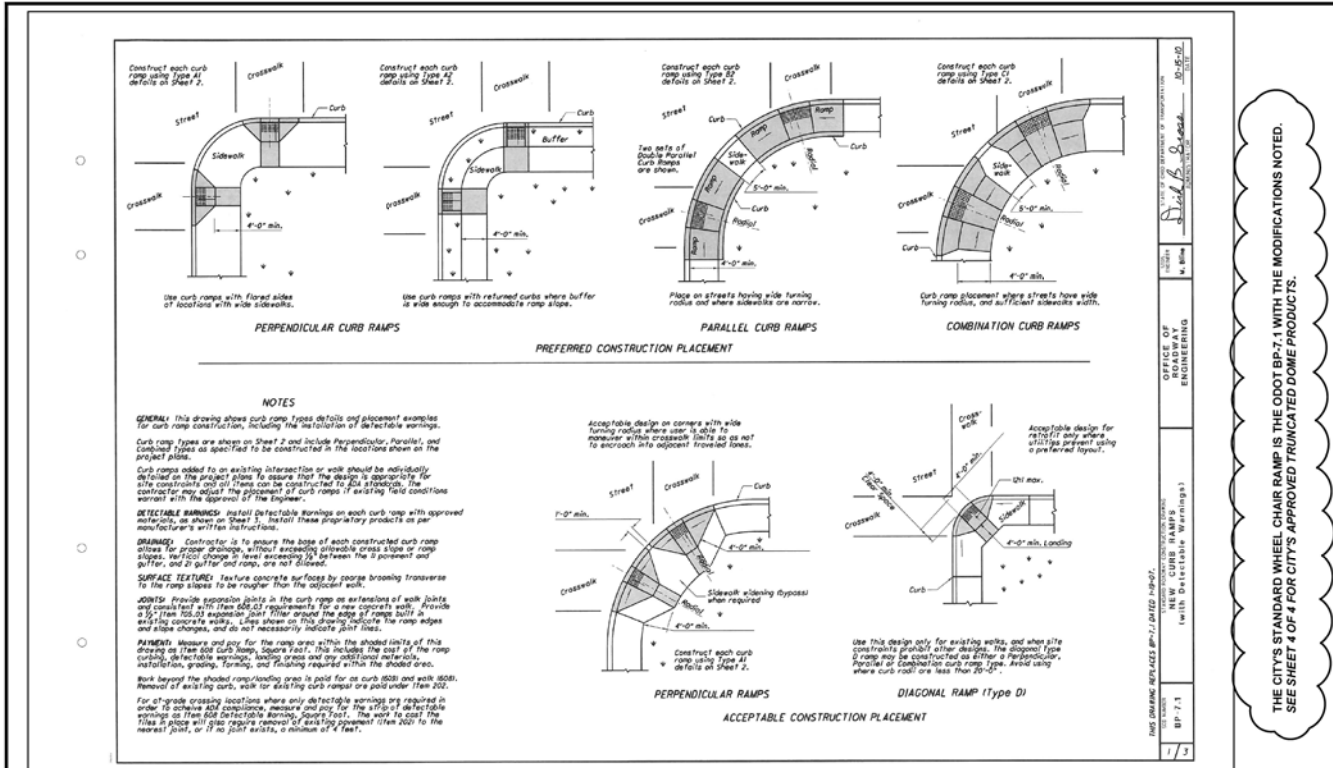
STANDARD DRAWING NO. 19
UTILITY TRENCH REQUIREMENTS
SHEET 2 OF 2

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: JAN 2012
APPROVED BY: CDB, RMB, SLH
DRAWING FILE NAME: ce_19.dwg

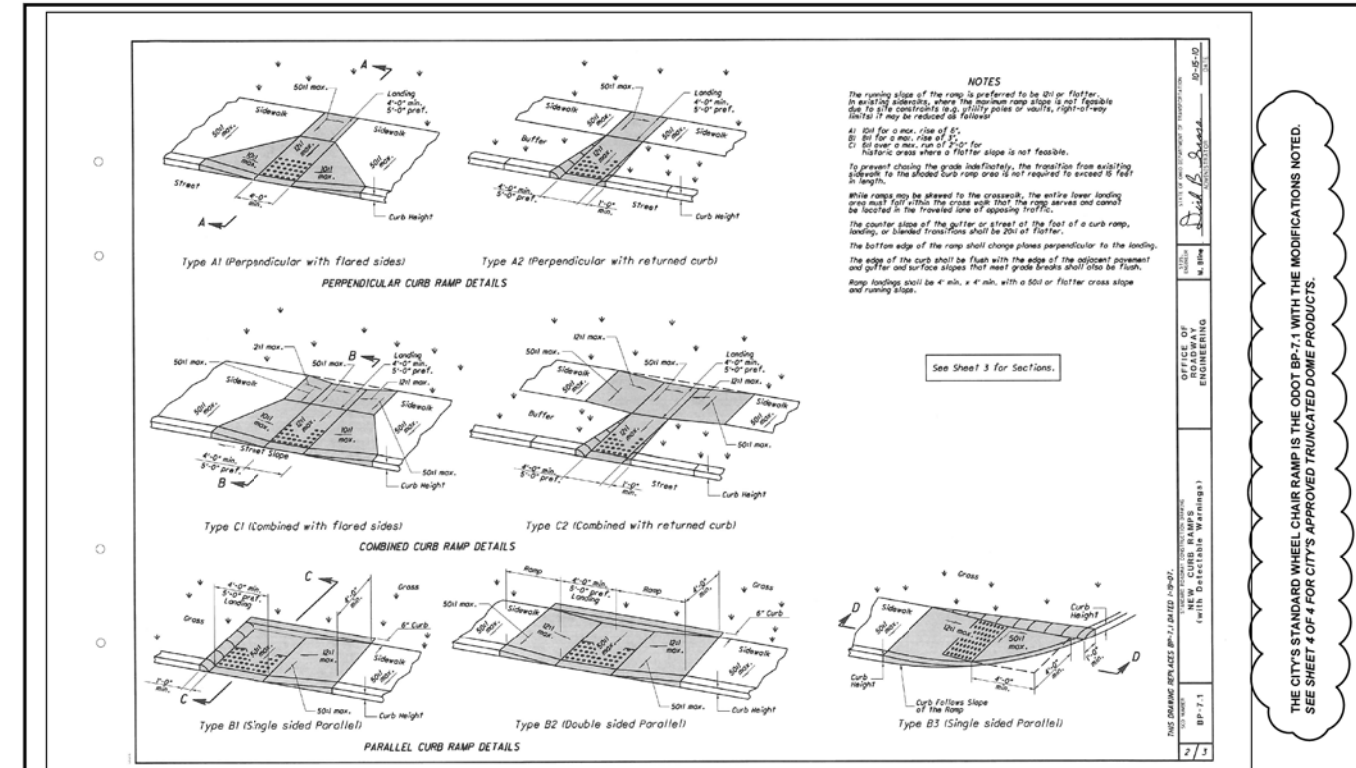
CALCULATED WLC CHECKED RMH
RIDGEWOOD EAST PH.1
PART 1: WATER
19
21
MISCELLANEOUS ROADWAY DETAILS

J:\16-128_Ridgewood E\5.0 Design (Work) Phase\STA16128\roadway\sheets\16128GM004 - W.dgn 6/21/2018 9:48:33 AM william.croxton\ ODOTV81_PDF_Half.plt.ctb ODOTV81_Pen-ME.tbl |BI| Group



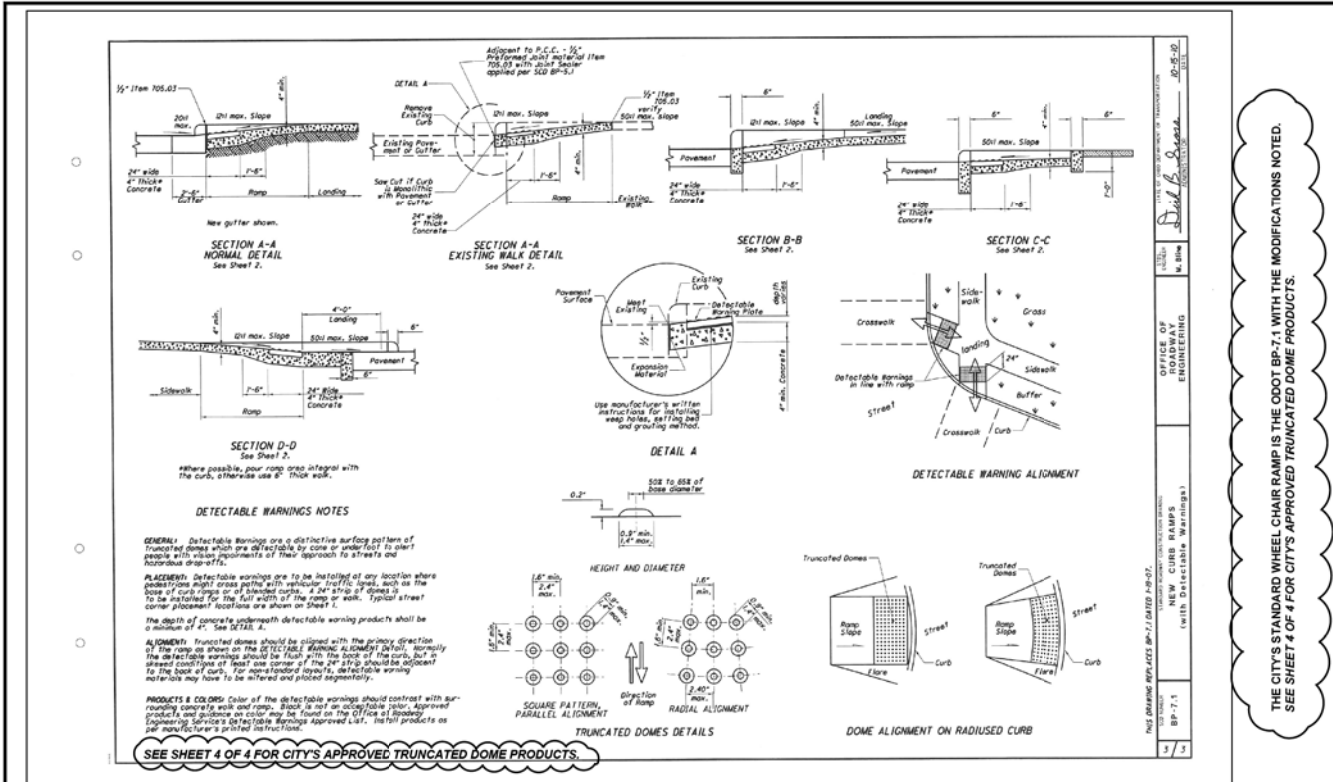
THE CITY'S STANDARD WHEEL CHAIR RAMP IS THE ODOT BP-7.1 WITH THE MODIFICATIONS NOTED. SEE SHEET 4 OF 4 FOR CITY'S APPROVED TRUNCATED DOME PRODUCTS.

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: MAY 2012 APPROVED BY: RMB DRAWING FILE NAME: ce_33.dwg	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>REVISIONS</td> <td>6/29/12</td> <td>RMB</td> </tr> </tbody> </table>	REVISIONS			DESCRIPTION	DATE	BY	REVISIONS	6/29/12	RMB	STANDARD DRAWING NO. 33 WHEEL CHAIR RAMP SHEET 1 OF 4
	REVISIONS											
DESCRIPTION	DATE	BY										
REVISIONS	6/29/12	RMB										



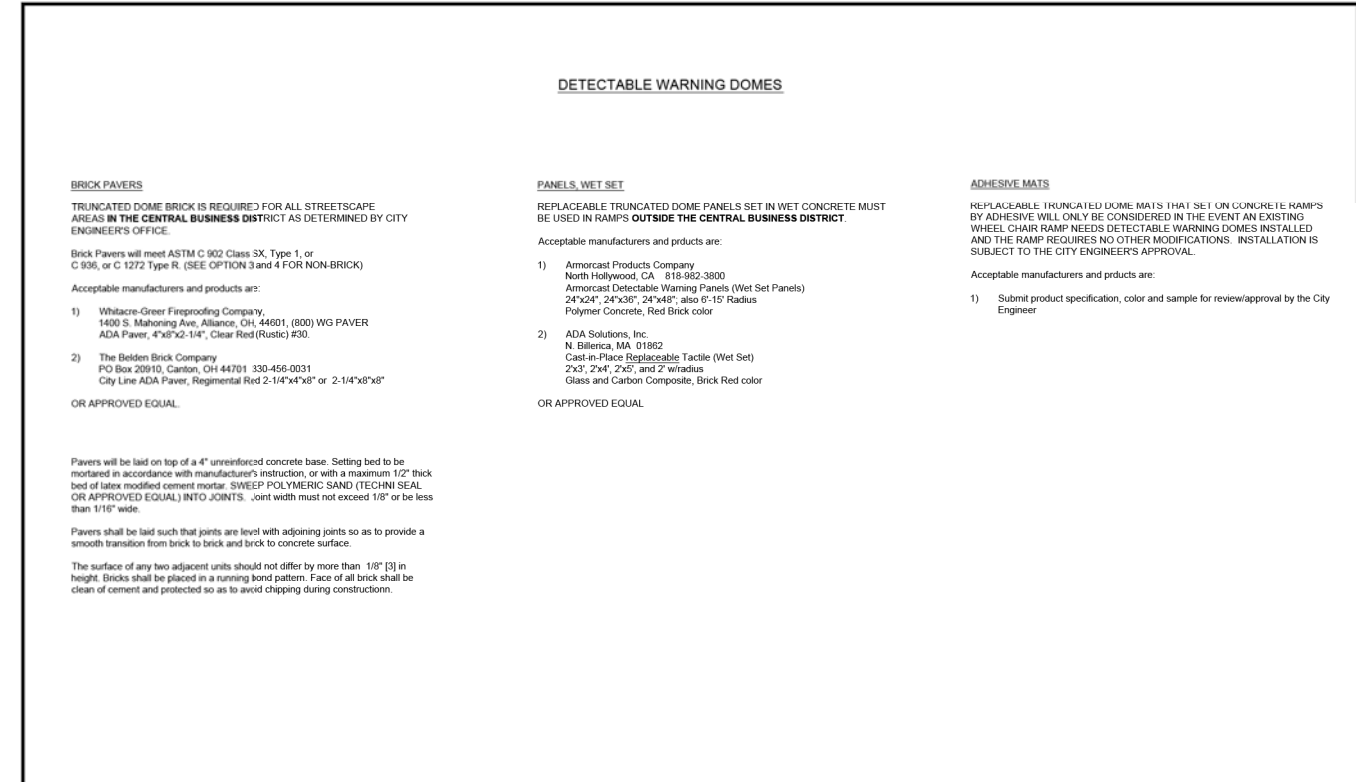
THE CITY'S STANDARD WHEEL CHAIR RAMP IS THE ODOT BP-7.1 WITH THE MODIFICATIONS NOTED. SEE SHEET 4 OF 4 FOR CITY'S APPROVED TRUNCATED DOME PRODUCTS.

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: MAY 2012 APPROVED BY: RMB DRAWING FILE NAME: ce_33.dwg	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>REVISIONS</td> <td>6/29/12</td> <td>RMB</td> </tr> </tbody> </table>	REVISIONS			DESCRIPTION	DATE	BY	REVISIONS	6/29/12	RMB	STANDARD DRAWING NO. 33 WHEEL CHAIR RAMP SHEET 2 OF 4
	REVISIONS											
DESCRIPTION	DATE	BY										
REVISIONS	6/29/12	RMB										



THE CITY'S STANDARD WHEEL CHAIR RAMP IS THE ODOT BP-7.1 WITH THE MODIFICATIONS NOTED. SEE SHEET 4 OF 4 FOR CITY'S APPROVED TRUNCATED DOME PRODUCTS.

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: MAY 2012 APPROVED BY: RMB DRAWING FILE NAME: ce_33.dwg	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>REVISIONS</td> <td>6/29/12</td> <td>RMB</td> </tr> </tbody> </table>	REVISIONS			DESCRIPTION	DATE	BY	REVISIONS	6/29/12	RMB	STANDARD DRAWING NO. 33 WHEEL CHAIR RAMP SHEET 3 OF 4
	REVISIONS											
DESCRIPTION	DATE	BY										
REVISIONS	6/29/12	RMB										



THE CITY'S STANDARD WHEEL CHAIR RAMP IS THE ODOT BP-7.1 WITH THE MODIFICATIONS NOTED. SEE SHEET 4 OF 4 FOR CITY'S APPROVED TRUNCATED DOME PRODUCTS.

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: MAY 2012 APPROVED BY: RMB DRAWING FILE NAME: ce_33.dwg	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>REVISIONS</td> <td>6/29/12</td> <td>RMB</td> </tr> </tbody> </table>	REVISIONS			DESCRIPTION	DATE	BY	REVISIONS	6/29/12	RMB	STANDARD DRAWING NO. 33 WHEEL CHAIR RAMP SHEET 4 OF 4
	REVISIONS											
DESCRIPTION	DATE	BY										
REVISIONS	6/29/12	RMB										

CALCULATED WLC CHECKED RMH
 MISCELLANEOUS ROADWAY DETAILS
 RIDGEWOOD EAST PH.1
 PART 1: WATER
 20
 21

J:\16-128_Ridgewood E\5.0_Design (Work) Phase\STA\16128\roadway_sheets\16128GM005-W.dgn 6/21/2018 9:48:42 AM william.croxton' ODOTV8i_PDF_Half.pltcfgr ODOTV8i_Pen-ME.tbl IBI Group

PLAN VIEW
EXISTING ASPHALT OVER BRICK PAVEMENT
2 FT. ASPHALT TRANSITION
EXPANSION JOINT
1 FT. BRICK TRANSITION
EXISTING BRICK PAVEMENT
FIC

SECTION VIEW
1" WIDE BRICK SURFACE RESTORATION (SEE NOTE 5)
8" WIDE (MIN.) ALONG OR CROSSING LOCAL STREETS
2" WIDE ASPHALT SURFACE RESTORATION (SEE NOTE 6)
CONCRETE CROSSWALK
SAW CUT ASPHALT PAVEMENT, SEAL JOINT WITH ASPHALT CEMENT.
2" TO 3" ASPHALT PAVEMENT (ODOT 448, SURFACE COURSE, TYPE 2)
EX. BRICK
EX. CONCRETE
CRUSHED STONE BASE, ODOT 304, 411, 817 OR AASHTO #57, #67
SAW CUT
RUBBERIZED TACK COAT ON CONCRETE AND ON BRICK PRIOR TO PLACING ASPHALT PAVEMENT
1" SAND/MORTAR SETTING BED
9" CONCRETE CROSSWALK AND PAVEMENT TRANSITION, ODOT 305, ODOT 609
1" WIDE CONCRETE BASE, 6" MINIMUM THICKNESS

NOTES:
1. CONCRETE CROSS WALKS MUST BE CONSTRUCTED IN THE ROADWAY WHEN EXISTING PAVEMENT IS DISTURBED WHERE BRICK ROADS TRANSITION TO ASPHALT ROADS BY OVERLAY OF ASPHALT ON BRICK PAVERS, UNLESS DETERMINED OTHERWISE BY THE CITY ENGINEER.
2. CROSS WALK CONSTRUCTION MUST CONFORM TO ODOT 608 AND THE CURRENT CITY OF CANTON SPECIFICATIONS FOR THE CONSTRUCTION, REPAIR, AND REPLACEMENT OF SIDEWALKS, CURBS, AND DRIVEWAYS.
3. SECTION PROFILES OF CROSS WALK TO BE FIELD DETERMINED BASED ON EXISTING ASPHALT AND BRICK PAVEMENT ELEVATIONS. PROFILES OF THE CROSSWALK MUST BE SET IN A MANNER THAT DOES NOT IMPIDE THE STORMWATER DRAINAGE.
4. DURING REMOVAL OF PAVEMENT FOR INSTALLATION OF NEW CONCRETE CROSS WALK, CONTRACTOR MUST STABILIZE BRICK PAVERS AND PREVENT BRICKS, THAT ARE TO REMAIN IN PLACE, FROM COMING LOOSE.
5. CONTRACTOR TO REPLACE BRICK PAVEMENT WITH SALVAGED BRICK SET ON A 1" CONCRETE BASE AND 1" SAND/MORTAR SETTING BED. REUSE OF EXISTING CONCRETE BASE UNDER BRICK IS ACCEPTABLE IF CITY ENGINEER DEEMS EXISTING CONCRETE BASE IS IN SATISFACTORY CONDITION. OTHERWISE NEW CONCRETE BASE MAY BE REQUIRED. SWEEP BRICK JOINTS WITH TECHNI SEAL, POLYMER SAND (OR APPROVED EQUAL). ALL BRICK PAVERS RESET MUST MEET THE GRADES ESTABLISHED BY THE ENGINEER. SURFACE ELEVATION FROM BRICK TO BRICK, OR BRICK TO CONCRETE MUST NOT EXCEED 1/8".
6. CONTRACTOR MUST PLACE TRANSITIONAL ASPHALT PAVEMENT (ODOT 448, SURFACE COURSE, TYPE 2) MATCHING THE SURFACE OF THE NEW CONCRETE CROSS WALK AND EXISTING ASPHALT PAVEMENT. ASPHALT PAVEMENT THICKNESS MUST NOT BE LESS THAN 2", OR GREATER THAN 2". ASPHALT PAVEMENT MUST BE SET ON A CONCRETE BASE WITH A MINIMUM THICKNESS OF 1". THE CONCRETE BASE MUST LOCK IN THE EXISTING BRICK PAVERS. APPLY RUBBERIZED TACK COAT ON CONCRETE BASE AND BRICK BASE PRIOR TO INSTALLING ASPHALT PAVEMENT.
7. CONCRETE MATERIAL FOR CROSS WALK AND BASE MUST BE ODOT #69 CLASS 'C' CONCRETE WITH LIMESTONE AGGREGATE.
8. NO FOUNDRY SAND OR SLAG PERMITTED IN AGGREGATE BASE.
9. ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.

STANDARD DRAWING NO. 34
CONCRETE CROSSWALK AND PAVEMENT TRANSITION
SHEET 1 OF 1

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: MAY 2012
APPROVED BY: RMB
DRAWING FILE NAME: ce_34.dwg

REVISIONS			
DESCRIPTION	DATE	BY	
REVISIONS	7/20/12	RMB	

CROSSWALK DETAIL
SWEEP JOINTS W/ POLYMERIC SAND - TECHNI SEAL OR EQUAL
BRICK PAVER / PERPENDICULAR HERRINGBONE
1" MAX COMPACTED SAND MORTAR ODOT 703.02 (ASTM C-33) SETTING BED
FRAMING PIN WEEP HOLES NOT TO EXCEED 4' O.C.
CONCRETE CROSSWALK APP. SEE DETAIL
6" CONCRETE BASE
6" AGG. BASE, ODOT ITEM #304

TYPICAL TOOLED AND CUT CONTROL JOINT
1/4" DEPTH OF SLAB - SPACING OF JOINTS TO BE 4' O.C. - ALIGN CONCRETE CROSSWALK AND CONCRETE WALK JOINTS
FILL JOINTS WITH POLYURETHANE ELASTOMERIC SEALANT TYP. TREMCO THC 900 / 901 OR EQUAL FOR CONTROL IN EXPANSION JOINTS
1/2" CLOSED CELL EXPANSION JOINT FILLER TO BE SEALTIGHT CERAMAR OR EQUAL - (DOT O.C. MAX)
10" ITEM 452 PLAIN PORTLAND CEMENT CLASS C (LIMESTONE) CONCRETE PAVEMENT
COMPACTED AGGREGATE BASE ODOT ITEM 304, 6" TYP.

NOTES:
4X8 BRICK PAVER, 2 3/4" THICK - ROADWAY PAVER BY BELDEN BRICK - ASTM C1272 TRAFFIC TYPE F, APPL. PX WEATHER SX - 10,000 PSI - COLOR JUMBO REGIMENTAL
BRICK ALTERNATE - WHITACRE GREER 4 X 8-1/2 X 3-1/2 WEATHER CLASS SX, TRAFFIC F, APPLICATION PX - COLOR 33 DARK ANTIQUE - 10,000 PSI ASTM C1272
BRICK TO HAVE BEVELED EDGE AND LUGS.
USE PERPENDICULAR HERRINGBONE PATTERN IN INTERSECTION.
SWEEP JOINTS WITH DRY MIXTURE OF POLYMERIC SAND Techni-Seal OR APPROVED EQUAL. USE PLATE TAMPER WITH RUBBER MAT OR OTHER PROTECTION FOR BRICK. REMOVE EXCESS AND MOISTEN TO SET JOINT SEALANT SAND.
1" MAX COMPACTED CONCRETE SAND ODOT 703.02 (ASTM C 33) SETTING BED W/ MORTAR.
USE INTERIOR FORMING PINS FOR WEEP HOLES ON DOWNSLOPE SIDES AND INTERIOR CORNERS. MAX 4 FT. CENTERS. - COVER W/ FILTER FABRIC.
CONCRETE CROSSWALK AND PAVEMENT BASE IS TO BE CLASS "C" ODOT 499.03 - HIGH EARLY. NO EXPANSION JOINTS ARE TO BE PLACED AGAINST BRICK PAVER SECTIONS.
MAX 1/4" SPACE BETWEEN BRICK AND CONCRETE. PROVIDE 1/4" RADIUS ON ALL SLAB EDGES.
ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.
ALL CONCRETE CONSTRUCTION TO CONFORM TO CURRENT CITY OF CANTON SPECIFICATIONS FOR CONSTRUCTION, REPAIR AND REPLACEMENT OF SIDEWALKS, CURBS AND DRIVEWAYS.

STANDARD DRAWING NO. 41
ROADWAY BRICK & CROSSWALK PAVEMENT DETAILS
SHEET 1 OF 1

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: FEB. 2012
APPROVED BY: JTD
DRAWING FILE NAME: ce_40-47_STREETScape.dwg

REVISIONS			
DESCRIPTION	DATE	BY	

PLAN VIEW
STAND-UP CONCRETE CURB SECTION
CONCRETE CURB & GUTTER SECTION
1/2" EXPANSION JOINT
PAVEMENT
#5 18" SMOOTH DOWEL (ODOT ITEM 709.00)
LOCATION OF GRATE ELEVATION, STATION, AND OFFSET (GRATE ELEVATION SHALL BE 2" BELOW TYPICAL GUTTER LINE)
1/2" EXPANSION JOINT
18" TO 24"
STREET PROFILE SLOPE
DROP PAVEMENT/GUTTER 2" IN 2 TO 8 L.F. EACH SIDE OF CATCH BASIN
CONC. CURB 4" 6"
CONC. GUTTER 4" 6"
FOR BACKFILL MATERIAL AND COMPACTION, AND ROCK EXCAVATION, IF APPLICABLE, REFER TO CITY STANDARD DRAWING NO. 19
4" PIPE (ODOT ITEM 707.33) STUB WITH WATERTIGHT PLUG OR CAP (SEE NOTE 10)
DEPTH VARIES (6" TYPICAL)
LOCATION OF GRATE ELEVATION, STATION, AND OFFSET (GRATE ELEVATION SHALL BE 2" BELOW TYPICAL GUTTER LINE)
TYP. PAVEMENT/GUTTER LINE
CONCRETE GUTTER, AS APPLICABLE
CASTING TO BE SET ON TWO 1/2" TO 1" BEADS OF CONSEAL, BUTYL RUBBER SEALANT, OR APPROVED EQUAL
BEDDING AROUND PIPE PER CITY STD. DWG. NO. 19, AS APPLICABLE
STORM SEWER
GROUT AROUND PIPE (SEE NOTE 9)
6" CONCRETE BASE EXTENSION, AS APPLICABLE

SECTION A-A
NOT TO SCALE
BRICK CATCH BASINS ARE ACCEPTABLE AND SHALL BE CONSTRUCTED PER THIS DRAWING AND THE FOLLOWING SPECIFICATIONS:
1. PROVIDE CLAY BRICK (ASTM C226S) WALLS WITH FULL MORTAR (ASTM C91 & C-150, AIR-ENTRAINED PORTLAND CEMENT) JOINTS. CONCRETE & CEMENT BLOCKS/BRICKS ARE PROHIBITED FOR NEW OR RECONSTRUCTED BASINS.
2. THE CATCH BASIN SHALL HAVE A CONCRETE BASE (MINIMUM 6" THICKNESS) EXTENDING 6" BEYOND OUTSIDE OF FOUR WALLS OF CATCH BASIN.
3. EVERY SEVENTH COURSE MUST BE A STRETCHER COURSE.
4. WALLS SHALL BE MINIMUM 6" THICK.
5. PLASTER OUTSIDE WALLS WITH 1/2" NON-SHRINK MORTAR. INSIDE JOINTS MUST BE NEATLY STRUCK AND CLOSED.

SECTION B-B
NOT TO SCALE
PRECAST CONCRETE CATCH BASINS ARE ACCEPTABLE AND SHALL BE CONSTRUCTED PER THIS DRAWING AND THE FOLLOWING SPECIFICATIONS:
1. THE PRECAST UNIT CONFORMS TO ODOT ITEM 706.13.
2. PRECAST WALLS AND BOTTOM SHALL HAVE A MINIMUM THICKNESS OF 6".
3. A 6" CONCRETE BASE EXTENSION IS REQUIRED ON ALL FOUR SIDES WHEN DEPTH (TOP OF GRATE TO LOWEST PIPE INVERT) EXCEEDS 6 FEET.
4. STACKED PRECAST SECTIONS MUST HAVE A TONGUE/GROOVE JOINT AND A BUTYL SEALANT.
5. SHOP DRAWING OF THE PRECAST UNIT SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.

NOTES:
1. ALL WORK SHALL CONFORM TO ODOT ITEM 604 EXCEPT AS OTHERWISE NOTED HEREIN.
2. PRECAST CONCRETE OR BRICK CATCH BASINS ARE ALLOWED AS NOTED HEREIN.
3. ALL CONCRETE SHALL CONFORM TO ODOT ITEM 499 CLASS C (4000 psi).
4. WHEN STREET PROFILE SLOPE IS 5% OR STEEPER, CONSTRUCT CATCH BASIN IN ACCORDANCE WITH CITY STD. DWG. NO. 3.
5. A CONCRETE CHANNEL SHALL BE POURED INTO THE BOTTOM OF THE CATCH BASIN USING CLASS 'C' CONCRETE. THE CHANNEL SHALL TAPER FROM 9" THICKNESS TO 2" MIN. THICKNESS AT THE LOWEST SEWER INVERT AND SHALL BE FINISHED WITH A SMOOTH SURFACE.
6. THE EXCAVATED AREA AROUND THE CATCH BASIN SHALL BE BACKFILLED WITH ODOT ITEM 703.11, TYPE 1 (304, 411, OR 817) COMPACTED IN 6" LIFTS OR ODOT ITEM 613, NO FOUNDRY SAND OR SLAG PERMITTED.
7. EXPANSION JOINT MATERIAL SHALL CONFORM TO ODOT ITEM 705.03, 1" OF JOINT SEALER (705.04) SHALL BE PLACED OVER EXPANSION JOINTS.
8. CASTINGS SHALL BE EAST JORDAN 7030 CURB INLET WITH TYPE T1 BACK AND TYPE M6 VANE GRATE. NEENAH R-305-L OR EQUAL APPROVED BY CITY ENGINEER (GRATE USED SHALL NOT BE SPECIFICALLY IDENTIFIED BY MANUFACTURER AS NOT SUITABLE FOR BICYCLE TRAFFIC). THE CASTING BACK (HOOD) MUST INCLUDE "ECO-SENSITIVE" MARKINGS SUCH AS: "DUMP NO WASTE, DRAINS TO STREET" AND AN AQUATIC LIFE LOGO. THE LETTERING AND LOGO SHALL BE RAISED OR RECESSED AND INTEGRAL WITH THE CASTING OF THE BACK. ALTERNATE NOTATION OR LOGO IS SUBJECT TO THE CITY ENGINEER'S APPROVAL.
9. ALL OPENINGS AND KNOCKOUTS FOR INLET AND OUTLET PIPING SHALL BE FASHIONED NEATLY. ALL ANNUAL SPACE SHALL BE FILLED WITH CEMENT GROUT, BRICK AND MORTAR, OR CLASS 'C' CONCRETE.
10. ONE 4" DIAMETER INLET PIPE SHALL BE INSTALLED ON THE SIDE OF THE CATCH BASIN OPPOSITE THE STREET (AS SHOWN).
11. KNOCK-OUT PANELS ARE NOT ALLOWED UNLESS PRE-APPROVED BY THE CITY ENGINEER.
12. ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.

STANDARD DRAWING NO. 1
CURB INLET CATCH BASIN
SHEET 1 OF 1

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: MAR. 2012
APPROVED BY: CDB, RMB, SLH
DRAWING FILE NAME: ce_01.dwg

REVISIONS			
DESCRIPTION	DATE	BY	

PLAN VIEW
NOT TO SCALE
UPHILL FRONT CORNER OF HOOD IS 12" BEHIND TYPICAL FACE OF CURB
FIELD LOCATION OF CATCH BASIN: GRATE ELEVATION = PLAN ELEV. (2" BELOW TYPICAL GUTTER LINE) STATION = PLAN STATION OFFSET = PLAN OFFSET PLUS 0.5' (AT TYPICAL BACK OF CURB)
PLAN LOCATION OF GRATE ELEVATION, STATION, AND OFFSET (AT TYPICAL FACE OF CURB)
DOWNHILL FRONT CORNER OF HOOD MATCHES TYPICAL FACE OF CURB
CURB
8.64'±
24.6'±
TYPICAL FACE OF CURB/GUTTER LINE
NOTES:
1. CONSTRUCT HILLSIDE CURB INLET CATCH BASINS ON ROAD PROFILE GRADES OF 3% OR STEEPER, OR AS OTHERWISE REQUIRED BY THE CITY ENGINEER.
2. ALL CATCH BASIN SPECIFICATIONS SHALL BE AS PER STANDARD DRAWING NO. 1 OR 2, AS APPLICABLE.
* DIMENSIONS SHOWN ON BASED ON A PRECAST CONCRETE CURB INLET CATCH BASIN WITH 6" WALLS

PROFILE VIEW
NOT TO SCALE
TOP OF CURB @ PLAN SLOPE
TYPICAL CURB LINE PROJECTION
ADJUST TOP OF HOOD TO CONFORM AS BEST AS POSSIBLE WITH TYPICAL CURB SLOPE
8" FROM TOP OF GRATE (AT GUTTER LINE) TO TOP OF HOOD AT DOWNHILL SIDE OF INLET
TOP OF CURB @ PLAN SLOPE
TOP OF CATCH BASIN STRUCTURE AND INLET FRAME ARE SET LEVEL

STANDARD DRAWING NO. 3
HILLSIDE CURB INLET CATCH BASIN
SHEET 1 OF 1

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: MAR. 2012
APPROVED BY: CDB, RMB, SLH
DRAWING FILE NAME: ce_03.dwg

REVISIONS			
DESCRIPTION	DATE	BY	

CALCULATED WLC CHECKED RMH
MISCELLANEOUS ROADWAY DETAILS
RIDGEWOOD EAST PH.1
PART 1: WATER
21
21

J:\16-128_Ridgewood E.V.5.0_Design (Work) Phase\STAX\16128Yroadway\sheets\16128GT001-R.dgn 6/21/2018 9:45:06 AM william.croxton ODOTV81_PDF_Half.plt.cfg ODOTV81_Pen_ME.tbi IBI Group

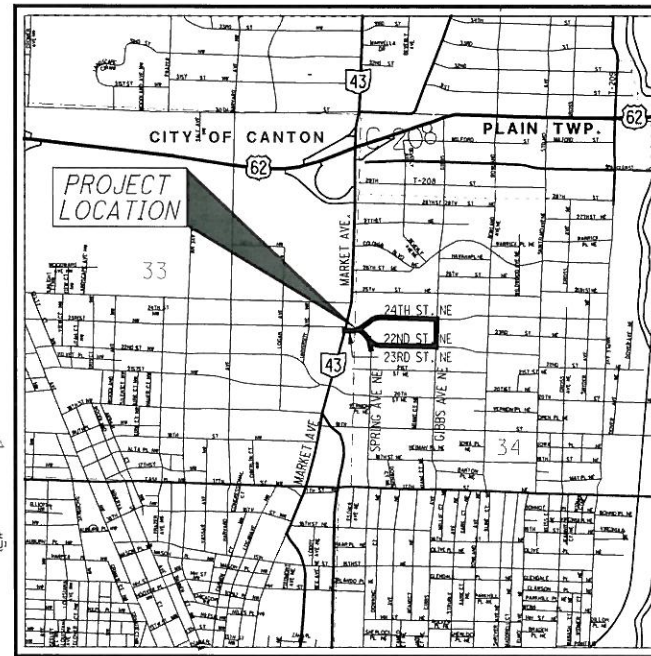
THE CITY OF CANTON ENGINEERING

RIDGEWOOD EAST - PHASE 1 PART 2: ROADWAY RECONSTRUCTION GP 1123

INDEX OF SHEETS:

TITLE SHEET	1
TYPICAL SECTION	2
GENERAL SUMMARY	3
GENERAL NOTES	4-7
PLAN AND PROFILE SHEETS	8-16
MISCELLANEOUS DETAILS	17-21

CITY OF CANTON
STARK COUNTY, OHIO
JUNE 2018



LOCATION MAP
(NOT TO SCALE)



LEGEND	
County Line	Waterline (Ex) ---W---
Township Line	Waterline (Pr) ---W---
Section Line	Tree Line (Ex) --- ---
Corporation Line	Ownership Hook Symbol /, Example /
Fence Line (Ex) ---x---(Pr) ---x---	Property Line Symbol P, Example P
Center Line	Break Line Symbol \, Example \
Right of Way (Ex) ---Ex R/W---	Tree (Pr) (tree symbol), Tree (Ex) (tree symbol), Shrub (Ex) (shrub symbol)
Right of Way (Pr) ---R/W---	Tree (Remove) (tree symbol with X), Shrub (Remove) (shrub symbol with X)
Standard Highway Ease.(Ex) ---Ex SH---	Evergreen (Ex) (star symbol), Stump (Remove) (stump symbol)
Temporary Right of Way ---TMP---	Evergreen (Remove) (star symbol with X), Stump (Remove) (stump symbol with X)
Channel Ease. (Pr) ---CH---	Wetland (Pr) (wavy symbol), Grass (Pr) (grass symbol), Aerial Target (Pr) (circle with X)
Utility Ease. (Ex) ---Ex U---	Post (Ex) (circle with dot), Mailbox (Ex) (circle with X), Mailbox (Pr) (circle with dot)
Railroad	Light (Ex) (circle with X), Telephone Marker (Ex) (circle with TEL)
Guardrail (Ex) (dashed line with triangles) (Pr) (dashed line with triangles)	Fire Hydrant (Ex) (circle with cross), Water Meter (Ex) (circle with cross)
Construction Limits	Water Valve (Ex) (circle with cross), Utility Valve Unknown (Ex) (circle with cross)
Edge of Pavement (Ex) --- ---	Telephone Pole (Ex) (circle with cross), Power Pole (Ex) (circle with cross)
Edge of Pavement (Pr) --- ---	Light Pole (Ex) (circle with cross)
Edge of Shoulder (Ex) --- ---	Fire Hydrant (Pr) (circle with cross), Water Valve (Pr) (circle with cross)
Edge of Shoulder (Pr) --- ---	
CANTON WATER DEPARTMENT HYDRANT AND VALVE NUMBERS (H --- , V ---)	

CANTON CITY OFFICIALS:

MAYOR THOMAS M. BERNABEI
 DIRECTOR OF PUBLIC SERVICE JOHN M. HIGHMAN

CANTON WATER TYLER S. CONVERSE
 DEPARTMENT SUPERINTENDENT

CANTON CITY ENGINEER DAN J. MOEGLIN, PE, SI

MEMBERS OF CANTON CITY COUNCIL:
 COUNCIL PRESIDENT ALLEN SCHULMAN

MEMBERS-AT-LARGE JAMES BABCOCK
CORY MINOR SMITH
BILL SMUCKLER

WARD ONE GREG HAWK
 WARD TWO NATE CHESTER III
 WARD THREE JASON SCAGLIONE
 WARD FOUR CHRIS SMITH
 WARD FIVE ROBERT FISHER
 WARD SIX KEVIN HALL
 WARD SEVEN JOHN MARTOL II
 WARD EIGHT EDMOND MACK
 WARD NINE FRANK MORRIS

SIGNED: DATE: 4/5/18
 DAN J. MOEGLIN, PE, SI
 CANTON CITY ENGINEER

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

CALL
1-800-362-2764
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS UNDERGROUND
PROTECTION SERVICE CALL: **1-800-925-0988**

PLAN PREPARED BY:

 IBI GROUP
 4150 Belden Village St., Suite 104
 Canton, OH 44718 USA
 Contact: William L. Croxton IV, P.E.
 Phone: 330-491-9000
 Fax: 330-491-9001

ENGINEERS SEAL:

FEDERAL PROJECT NO. **NONE**
 PID NO. **NONE**
 CONSTRUCTION PROJECT NO. **NONE**
 RAILROAD INVOLVEMENT **NONE**
RIDGEWOOD EAST PH.1
PART 2: ROADWAY
 1/21

J:\16-128_Ridgewood E\5.0 Design (Work) Phase\STA\16128\roadway\sheets\16128GY001-R.dgn 6/21/2018 9:45:08 AM william.croxtor\ william.croxtor\ ODOTV81_PDF_Half.plt\cfig ODOTV81_Pen-ME.tbl IBI Group

CALCULATED WLC CHECKED RMH
TYPICAL SECTIONS
RIDGEWOOD EAST PH.1
PART 2: ROADWAY
 2
 21

PROPOSED LEGEND (SEE NOTE #1)

- 1 ITEM SPECIAL - BRICK PAVEMENT RESTORATION (SEE NOTE #6)
- 2A ITEM 304 - AGGREGATE BASE (1.5" AVG.) (SEE NOTE #7)
- 2B ITEM 304 - AGGREGATE BASE (12" (COMPACTED IN TWO 6" LIFTS)
- 2C ITEM 304 - AGGREGATE BASE (6")
- 3 ITEM 206 - CEMENT (APPLIED @ 6% PER 110 LB/CF SOIL)
 ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
 ITEM 206 - CURING COAT
 ITEM 206 - MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS
- 4 ITEM 204 - PROOF ROLLING (SEE NOTE #5)
- 5 ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
- 6 ITEM 452 - 10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1
- 7 ITEM 204 - SUBGRADE COMPACTION
- 8 ITEM 202-WALK REMOVED (SEE NOTE #7)
 ITEM 202-CURB AND GUTTER REMOVED (SEE NOTE #7)
 ITEM 608-4" CONCRETE WALK (SEE NOTE #7)
 ITEM 609-COMBINATION CURB AND GUTTER, TYPE 2 (SEE NOTE #7)

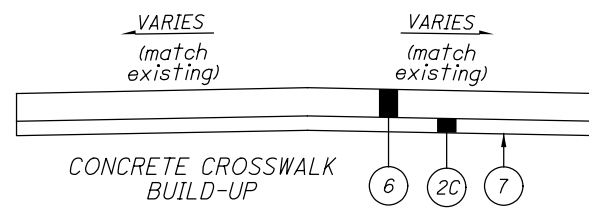
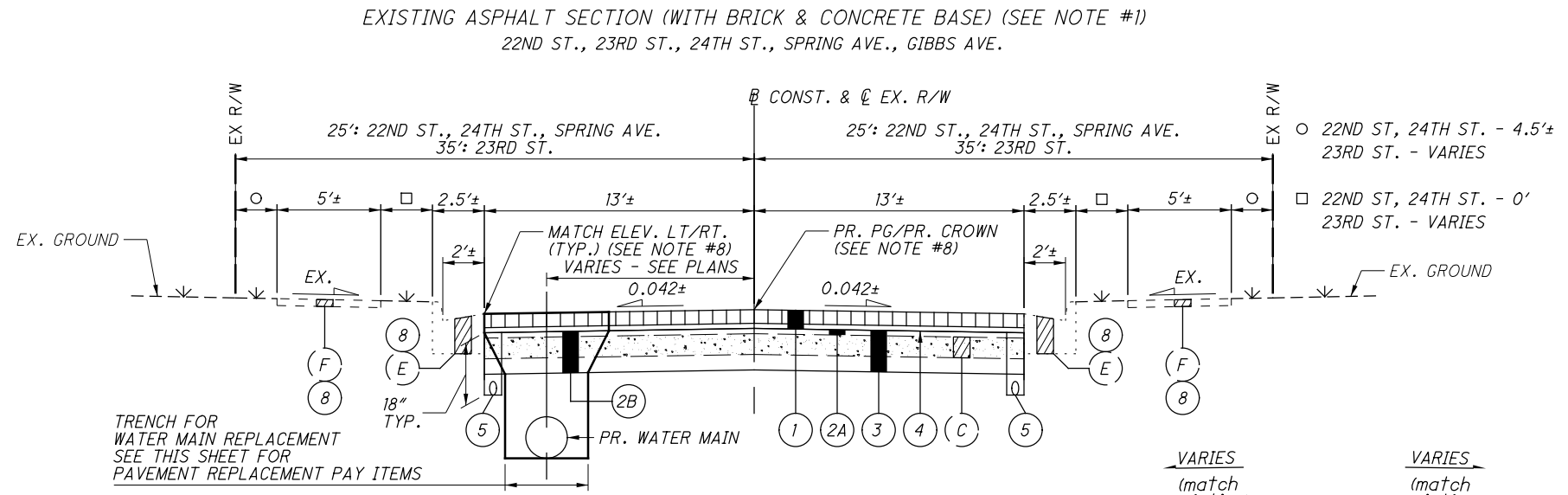
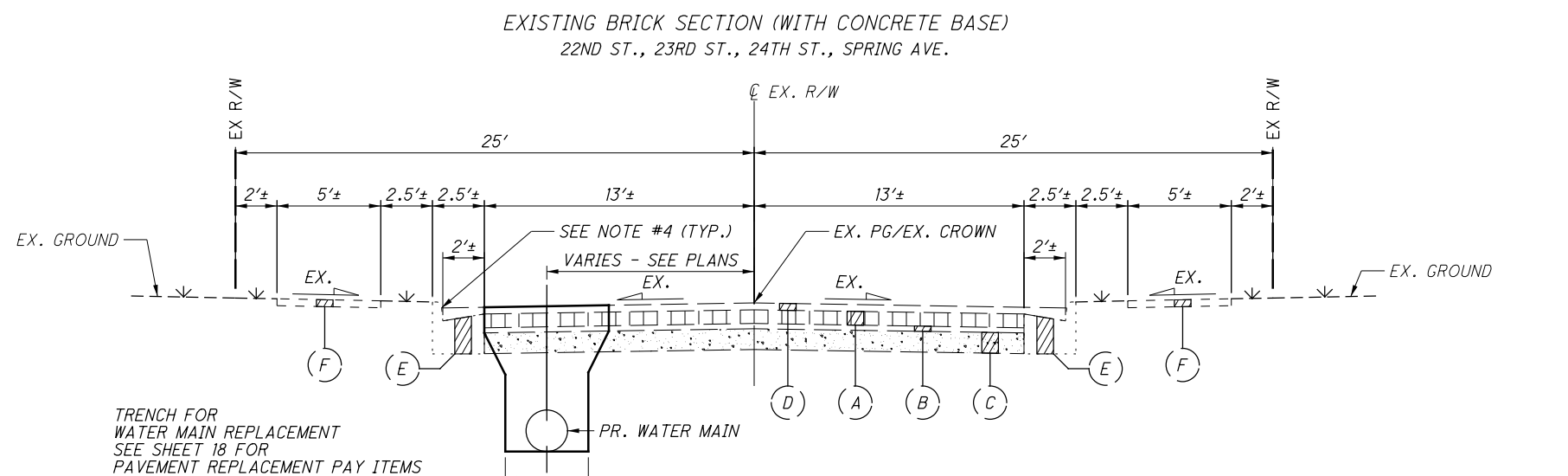
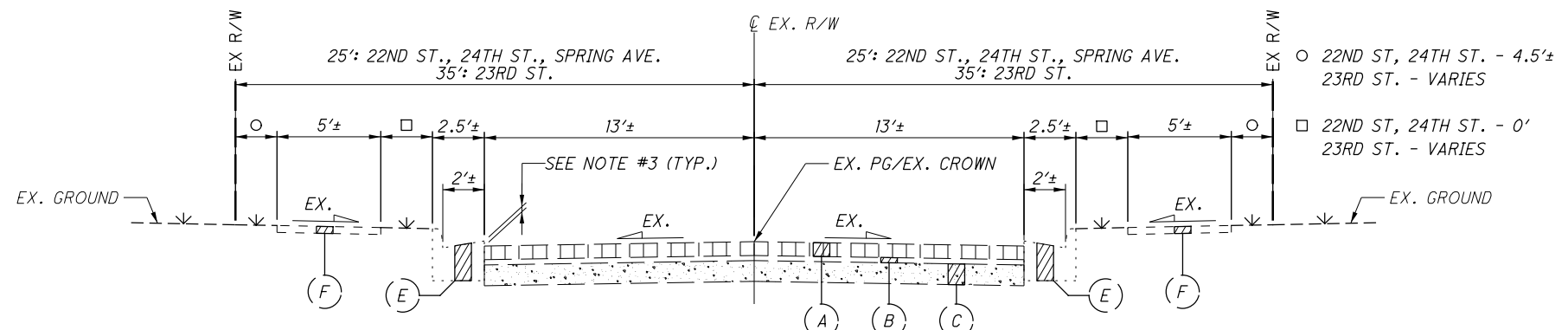
EXISTING LEGEND (SEE NOTE #1 AND NOTE #2)

- (A) EX. HISTORIC BRICK PAVERS (4"±)
- (B) EX. SAND CUSHION (1"±)
- (C) EX. CONCRETE BASE (6"±)
- (D) EX. ASPHALT CONCRETE (3"±)
- (E) EX. CONCRETE CURB AND GUTTER (5"± CURB HEIGHT)
- (F) EX. CONCRETE WALK (5"±)

TYPICAL SECTION NOTES:

GENERAL - VERTICAL SCALE FOR PAVEMENT BUILDUPS HAS BEEN EXAGGERATED FOR CLARITY.
 TRENCH DEPTH NOT TO SCALE

- #1. SEE PLAN SHEETS FOR LIMITS OF PART 1, PART 2, TRENCHES, AND OTHER PAVEMENT WORK.
- #2. EXISTING PAVEMENT COMPOSITION AND BUILDUP ARE AVERAGES BASED ON EXISTING PLANS. NO PAVEMENT CORES WERE TAKEN. BASED ON CITY'S PAST EXPERIENCE, THE 6" CONCRETE BASE HAS DETERIORATED OVER TIME AND HAS REDUCED TO AN AGGREGATE BASE MATERIAL.
- #3. ELEVATION DIFFERENTIAL (VARIES 0"-3") BETWEEN EDGE OF GUTTER AND PAVEMENT DUE TO SETTLING OF BRICK PAVEMENT AND BASE.
- #4. CURB HEIGHT REDUCTION (VARIES 0"-3") DUE TO ASPHALT PAVING OVER EXISTING GUTTERS.
- #5. PROOF ROLLING SHALL BE PERFORMED AFTER SUBGRADE STABILIZATION PER ODOT GEOTECHNICAL BULLETIN GB-1
- #6. SEE SHEET 7A FOR ADDITIONAL INFORMATION AND DESCRIPTION OF PAY ITEMS INCLUDED. SEE PART 1 PLAN SHEETS FOR LIMITS ASSOCIATED WITH WATER MAIN REPLACEMENT. SEE PART 2 PLAN SHEETS FOR LIMITS ASSOCIATED WITH ROADWAY RECONSTRUCTION.
- #7. CONTINGENCY ITEMS - AS DIRECTED BY ENGINEER - SEE SHEET 7
- #8. PROPOSED PROFILE GRADE IS BASED ON EXTENSION OF CROSS SLOPE OF PROPOSED BRICK PAVEMENT FROM TOP EDGE OF EXISTING CURB AND GUTTER.



HORIZONTAL CONTROL - SECONDARY

POINT	ELEV.	NORTHING	EASTING	STATION	OFFSET	ROADWAY	DESCRIPTION
CP #1	1106.10	422954.031	2282424.905	201+86.56	49.68' RT.	22ND ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #2	1127.28	422879.397	2283426.558	399+66.86	25.15' RT.	GIBBS AVE.	30X5/8 REBAR SET W/GPD RED CAP
CP #3	1133.90	423348.273	2283389.254	311+18.59	24.35' LT.	24TH ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #4	1109.02	423322.422	2282459.512	301+93.24	21.82' LT.	24TH ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #5	1106.04	423123.150	2282304.522	102+07.94	27.25' RT.	23RD ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #6	1109.23	422950.998	2282825.888	205+67.03	20.84' LT.	22ND ST.	30X5/8 REBAR SET W/GPD RED CAP
CP #7	1105.65	423223.701	2282076.467	500+60.27	36.49' LT.	MARKET AVE.	30X5/8 REBAR SET W/GPD RED CAP

NOTE: ALL NORTHING AND EASTING COORDINATES ARE GROUND COORDINATES

VERTICAL CONTROL - BENCHMARKS

POINT	ELEV.	NORTHING	EASTING	STATION	OFFSET	ROADWAY	DESCRIPTION
BM #1	1122.54	423415.957	2282847.113	305+74.71	76.23' LT.	24TH ST.	SW COR OF 1ST STEP OF HN815
BM #2	1115.57	423000.754	2282976.024	207+15.65	74.95' LT.	22ND ST.	SW COR OF 1ST STEP OF HN907
BM #3	1135.49	423304.934	2283455.694	311+86.27	17.03' RT.	24TH ST.	BRASS DISK CANTON BENCHMARK
BM #4	1106.70	423058.123	2282427.453	201+11.09	16.09' LT.	22ND ST.	CHISLED BOX W/X ON CURB

NOTE: ALL NORTHING AND EASTING COORDINATES ARE GROUND COORDINATES

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway_sheets\16128GG001-R.dgn 6/21/2018 9:45:08 AM william.croxtson\ODOTV81_PDF_Half.plt\cfig ODOTV81_Pen-ME.tbl IBI Group

ITEM	TOTAL	ADBE TOTAL	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
ROADWAY						
202	88		88	SY	PAVEMENT REMOVED	
202		250	250	SF	WALK REMOVED	
202	80		80	FT	CURB REMOVED	
202		100	100	FT	CURB AND GUTTER REMOVED	
202	256		256	FT	PIPE REMOVED, 24" AND UNDER	
202	15		15	EACH	CATCH BASIN OR INLET REMOVED	
204	200		200	SY	SUBGRADE COMPACTION	
204	3		3	HOUR	PROOF ROLLING	
206	130		130	TON	CEMENT	
206	4362		4362	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	
206	4362		4362	SY	CURING COAT	
206	LS		LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
608		250	250	SF	4" CONCRETE WALK	
608	595		595	SF	CURB RAMP	
608	10		10	SF	DETECTABLE WARNING	
690	4362		4362	SY	SPECIAL - BRICK PAVEMENT RESTORATION	7A
DRAINAGE						
605	4525		4525	FT	4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
611	71		71	FT	12" CONDUIT, TYPE B	
611	185		185	FT	15" CONDUIT, TYPE B	
611	13		13	EACH	CATCH BASIN, MISC.: CURB INLET CATCH BASIN SCD#1	7
611	2		2	EACH	CATCH BASIN, MISC.: HILLSIDE CURB INLET CATCH BASIN SCD#3	7
832	5000		5000	EACH	EROSION CONTROL	
PAVEMENT						
301	15		15	CY	ASPHALT CONCRETE BASE, PG64-22	
304	34	182	216	CY	AGGREGATE BASE	
407	7		7	GAL	TACK COAT	
441	4		4	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
452	112		112	SY	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	
609	80	100	180	FT	COMBINATION CURB AND GUTTER, TYPE 2	
SANITARY SEWER						
611	9		9	EACH	MANHOLE, MISC.: MANHOLE SEALING WITH A PROTECTIVE POLYMER LINING	
INCIDENTALS						
614			LS		MAINTAINING TRAFFIC	
623			LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
624			LS		MOBILIZATION	

CALCULATED
 WLC
 CHECKED
 RMH

GENERAL SUMMARY

RIDGEWOOD EAST PH.1
PART 2: ROADWAY

NOTES:
 (ADBE) = "AS DIRECTED BY ENGINEER"
 * QUANTITY IS FOR ESTIMATING PURPOSE ONLY.
 THE FINAL QUANTITY MAY CHANGE BASED UPON GENERAL NOTE VIII: WATER MAIN/SERVICES

1. PRECONSTRUCTION INCIDENTALS:**(A) PROJECT SPECIFICATIONS/REQUIREMENTS:**

ALL WORK REQUIRED TO COMPLETE THIS IMPROVEMENT SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS/REQUIREMENTS OF THE CITY OF CANTON AND THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, EXCEPT AS HEREIN AMENDED. IN THE CASE OF A CONFLICT BETWEEN THE CITY OF CANTON AND THE OHIO DEPARTMENT OF TRANSPORTATIONSPECIFICATIONS/REQUIREMENTS, THE CITY OF CANTONREQUIREMENTS WILL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

THE DEVELOPER/CONTRACTOR SHALL COMPLY WITH THE CITY OF CANTON SUPPLEMENTAL SPECIFICATION 01-00 PROJECT DOCUMENTATION AND SUBMITTAL REQUIREMENTS.

(B) ADMINISTRATIVE REQUIREMENTS:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COMPLYING WITH ALL THE ADMINISTRATIVE DUTIES HEREIN CONTAINED.

THE DEVELOPER/CONTRACTOR SHALL DESIGNATE TO THE CITY AN EMPLOYEE RESPONSIBLE FOR CORRESPONDENCE, NOTIFICATIONS, AND SUBMITTALS PERTINENT TO THE PROJECT.

(C) PRECONSTRUCTION MEETING:

A PRECONSTRUCTION MEETING WITH THE DEVELOPER, CONTRACTOR, REPRESENTATIVES OF ALL UTILITY COMPANIES, THE CITY OF CANTON ENGINEERING DEPARTMENT AND THE CITY OF CANTON WATER DEPARTMENT IS REQUIRED FOR THIS PROJECT PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

FOR SUBDIVISION DEVELOPMENTS, THE DEVELOPER SHALL CONTACT THE CITY ENGINEER'S OFFICE TO ARRANGE A MEETING DATE. THE DEVELOPER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

FOR CITY GENERAL PROJECTS, THE CITY ENGINEER WILL CONTACT THE CONTRACTOR TO ARRANGE A MEETING DATE. THE CITY ENGINEER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

IF THE PROPOSED PROJECT LAND-DISTURBANCE AREA IS ONE (1) OR MORE ACRES, A SEPARATE PRE-CONSTRUCTION MEETING IS ALSO REQUIRED. THIS MEETING SHALL OCCUR ON-SITE BETWEEN THE CONTRACTOR AND THE STARK SOIL & WATER CONSERVATION DISTRICT (SWCD). THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING THIS MEETING. NO LAND-DISTURBANCE ACTIVITIES SHALL START UNTIL SAID MEETING HAS OCCURRED AND APPROVAL HAS BEEN GRANTED BY STARK SWCD.

(D) PROJECT SAFETY:

THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT THE PROJECT SITE AT ALL TIMES. THE CONTRACTOR SHALL PROPERLY SUPPORT AND/OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL O.S.H.A. REGULATIONS. APPROPRIATE BARRICADES, WARNING LIGHTS, SIGNS FENCING, ETC. SHALL BE ERECTED AROUND THE CONSTRUCTION AREA DURING ALL NON-WORKING HOURS TO ALERT PERSONS OF THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS BY UNAUTHORIZED PERSONNEL TO THE CONSTRUCTION SITE/AREA. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE GENERAL PUBLIC AS WELL AS ALL CONSTRUCTION PERSONNEL. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE OF DEBRIS (MUD, STONE, ETC.) AT ALL TIMES. THE CONTRACTOR SHALL ALERT ALL LOCAL EMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGINNING AND CONSTRUCTION ACTIVITY. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

(E) UNDERGROUND UTILITIES:

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS, AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT; HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIFY THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.

(F) UTILITY NOTIFICATION:

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OPERATIONS ON THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER, THE REGISTERED UTILITY PROTECTION AGENCY/SERVICE, AND THE OWNERS OF ANY OTHER UTILITIES (PUBLIC AND/OR PRIVATE) THAT MAY HAVE UTILITY LINES OR FACILITIES WITHIN THE VICINITY OF THIS PROJECT BUT WHO ARE NOT MEMBERS OF THE REGISTERED UTILITY PROTECTION SERVICE. THE OWNERS OF ANY UNDERGROUND UTILITY FACILITY SHALL, WITHIN 48 HOURS AFTER NOTICE IS RECEIVED, EXCLUDING SATURDAYS, SUNDAYS AND OTHER LEGAL HOLIDAYS; STAKE, MARK OR OTHERWISE DESIGNATE THE EXISTENCE AND/OR LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING AND/OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO WORKING DAYS AHEAD OF THE PLANNED CONSTRUCTION.

OHIO UTILITIES PROTECTION SERVICE: 1-800-382-2784 (CONTACT NON-MEMBERS DIRECTLY).

THE PRIMARY UTILITIES WITHIN THE CITY OF CANTON AREA:

AMERICAN ELECTRIC POWER ATTN: RAY ZITNEY 301 CLEVELAND AVE. SW CANTON, OH 44720 OFFICE: 330-438-7718	DOMINION ENERGY ATTN: BILL SNYDER 320 SPRINGSIDE DR., SUITE 320 AKRON, OH 44333 330-664-2781
--	--

AT&T ATTN: CINDY ZUCHEGNO 50 W. BOWERY ST., 4TH FLOOR AKRON, OH 44308 330-384-3561	SPECTRUM CABLE ATTN: JUSTIN FREUDEMAN 5520 WHIPPLE AVE. NW NORTH CANTON, OH 44720 330-492-4449
--	--

CANTON CITY WATER DEPARTMENT ATTN: BRENT BURRIER 2664 HARRISBURG RD. NW CANTON, OH 44705 330-438-6569	CITY OF CANTON ENGINEER'S OFFICE ATTN: DAN MOEGLIN 2436 30TH ST. NE CANTON, OH 44705 330-489-3381
---	---

NOTE: DOMINION ENERGY'S NATURAL GAS LINES LOCATED UNDER THE PAVEMENT WILL BE ABANDONED/RELOCATED BY 9/1/2018.

THE CITY ENGINEER'S OFFICE IS TO BE CONTACTED DIRECTLY FOR SANITARY AND STORM SEWER AND TRAFFIC INTERCONNECT FACILITIES LOCATION: 330-489-3381

(G) EXPLORATORY BORINGS:

EXPLORATORY SOIL BORING INFORMATION IS NOT THE RESPONSIBILITY OF THE CITY OF CANTON. IT IS THE DEVELOPER/CONTRACTOR RESPONSIBILITY TO REVIEW ANY AND ALL INFORMATION AVAILABLE. IF DEVELOPER/CONTRACTOR REQUESTS TO DRILL AND OR EXCAVATE WITHIN THE CITY'S R/W, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THIS WORK. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY NOTIFICATION, AS SPECIFIED, ALL TRAFFIC CONTROL, PREMIUM BACKFILL, AND COMPACTION AND RESTORATION, AS NECESSARY.

(H) CONTINGENCY QUANTITIES:

WHEN SPECIFIED ON PLANS OR SPECIFICATIONS, CONTINGENCY QUANTITIES ARE TO BE PERFORMED ONLY UNDER DIRECTION OF THE CITY ENGINEER. THE DEVELOPER/CONTRACTOR SHALL NOT ORDER ANY CONTINGENCY MATERIAL OR PERFORM ANY WORK UNTIL DIRECTED BY THE ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE DEVELOPER/CONTRACTOR AND THE ENGINEER.

(I) PRE-CONSTRUCTION VIDEO RECORDING

THE CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION AUDIO-VISUAL RECORDING OF THE EXISTING CONDITIONS WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION TO SERVE AS A RECORD OF PRE-CONSTRUCTION CONDITIONS.

THE VIDEO RECORDING SHALL BE OF PROFESSIONAL QUALITY THAT WILL CLEARLY LOG AN ACCURATE VISUAL DESCRIPTION OF THE EXISTING CONDITIONS. THE AUDIO PORTION OF THE RECORDING SHALL PRODUCE THE COMMENTARY OF THE OPERATOR WITH PROPER VOLUME, CLARITY, AND BE FREE FROM DISTORTION. COMMENTARY SHALL INCLUDE THE DATE AND TIME, STREET NAME, LOCATION, INTERSECTING STREETS AS THEY ARE CROSSED AND OCCASIONAL ADDRESSES ALONG THE STREET; COMMENTS ON THE CONDITIONS OF THE PAVEMENT AND OR HOMES AND DRIVEWAYS AT THE TIME OF THE RECORDING AND ANY OTHER PERTINENT ITEMS.

THE FINAL RECORDING SHALL BE TRANSFERRED TO A DVD WHEN COMPLETE. THE CONTRACTOR SHALL SUBMIT THE FINAL DVD TO THE CITY OF CANTON PRIOR TO CONSTRUCTION.

THE PRE-CONSTRUCTION VIDEO RECORDING WILL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT COST.

II. CONSTRUCTION INCIDENTALS**(A) PLAN DISCREPANCIES:**

ANY DISCREPANCIES FROM THE PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT THE APPROPRIATE ADJUSTMENTS IN ALIGNMENT AND/OR GRADE MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE SAME.

FAILURE BY THE DEVELOPER/CONTRACTOR TO VERIFY AND/OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.

(B) VERIFICATION OF UNDERGROUND UTILITIES:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACILITIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATORY EXCAVATIONS TO BE PERFORMED BY THE CONTRACTOR FOR WHICH HE WILL NOT BE REIMBURSED. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITS WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO INSTALL THE PROPOSED CONDUIT.

(C) PROTECTION OF UTILITIES:

THE DEVELOPER/CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AS APPROVED BY THE OWNERS OF THE UTILITY AND THE CITY ENGINEER.

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO CLOSELY COORDINATE THEIR WORK WITH ALL UTILITY COMPANIES; ANY POTENTIAL DELAYS WILL NOT BE THE RESPONSIBILITY OF THE CITY.

THE CONTRACTOR SHOULD EXPECT AT A MINIMUM ONE SANITARY SEWER LATERAL, ONE ROOF DRAIN, ONE WATER SERVICE, AND ONE GAS SERVICE FOR EACH LOT. ANY OF THE ABOVE UTILITIES DAMAGED DUE TO THE CONTRACTOR'S WORK SHALL BE RESTORED TO THE UTILITY OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

(D) MAINTENANCE OF UTILITY SERVICES:

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UTILITY SERVICES AT ALL TIMES.

SHOULD THE CONTRACTOR'S ACTIVITIES RESULT IN A BREAK IN THE EXISTING WATERLINE AND/OR SERVICES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR THE BREAK AT HIS EXPENSE AND WILL NOT BE COMPENSATED FOR ANY ASSOCIATED DOWN TIME.

WATER SERVICE MAY BE INTERRUPTED FOR LIMITED PERIODS (4 HOURS MAXIMUM) DURING CONNECTION BETWEEN EXISTING WATER LINES AND RELOCATED/NEW WATER MAINS WHICH CANNOT BE COMPLETED OTHERWISE. NO SHUT DOWN SHALL OCCUR WITHOUT WRITTEN PERMISSION OF THE CITY OF CANTON WATER DEPARTMENT. PROPERTY OWNERS AFFECTED BY APPROVED INTERRUPTED SERVICE SHALL BE NOTIFIED 48 HOURS IN ADVANCE BY THE CONTRACTOR.

STORM SEWER AND SANITARY SEWER SERVICES SHALL BE MAINTAINED WITHOUT INTERRUPTION, UNLESS APPROVED BY THE CITY ENGINEER.

IN THE EVENT THAT CONSTRUCTION DISRUPTS THE FLOW OF A SANITARY SEWER, THE CONTRACTOR SHALL IMMEDIATELY RECTIFY THE DISRUPTED SEWER BY EITHER TEMPORARILY FLUMING WITH MATERIALS ACCEPTABLE TO THE ENGINEER OR BYPASSING WITH PUMPS. COST OF MAINTAINING AND REPAIR OF SANITARY SEWERS DISTURBED BY CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

(E) CONSTRUCTION NOISE:

CONSTRUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT PROJECT SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH ADJOINING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED BY THE CITY ENGINEER. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M. UNLESS AUTHORIZED BY THE CITY ENGINEER.

(F) OPEN TRENCH CONSTRUCTION:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION/TRENCHING PRACTICES FOR THE PROPOSED IMPROVEMENT, OR AS FURTHER SHOWN ON THE PLANS AND SPECIFICATIONS.

THE DEVELOPER/CONTRACTOR SHALL FOLLOW ALL APPLICABLE LOCAL AND STATE SAFETY REGULATIONS, INCLUDING CODE OF FEDERAL REGULATIONS, PART 1926 (SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION), SUBPART P (EXCAVATIONS), FOR ALL APPLICABLE REQUIREMENTS AND RESPONSIBILITIES.

PRIOR TO COMMENCING CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF THE PROJECT'S ASSIGNED "COMPETENT PERSON" IN OSHA EXCAVATION STANDARDS.

(G) TRENCH CLOSING AND TEMPORARY TOPPING:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NECESSARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL OPEN TRENCHES, WHEN WORK IS EITHER COMPLETED AT THE END OF THE DAY OR SUSPENDED FOR ANY OTHER REASON.

FOR TRENCH SURFACE REQUIREMENTS, REFER TO NOTE #4 ON CITY STANDARD DRAWING NO. 19

(H) DUST CONTROL:

THE DEVELOPER/CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL

(I) TESTING OF UTILITIES:

ALL NEWLY CONSTRUCTED WATERLINES AND SANITARY SEWERS (INCLUDING LATERALS) MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE STANDARDS (AWWA, ETC.) PER THE OHIO ENVIRONMENTAL PROTECTION AGENCY, AND PER THE REQUIREMENTS OF THE CITY OF CANTON WATER AND ENGINEERING DEPARTMENTS.

SANITARY SEWERS SHALL BE TESTED BY CONTRACTOR IN ACCORDANCE WITH THE CITY OF CANTON'S SUPPLEMENTAL SPECIFICATIONS:

02-00 TESTING FOR EXCESSIVE DEFLECTION FOR NON-PRESSURE THERMOPLASTIC SEWER PIPE.

03-00 TESTING PRACTICES FOR LOW-PRESSURE AIR TESTING OF INSTALLED, NON-PRESURE, THERMOPLASTIC SEWER PIPE.

04-01 STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE TEST.

SANITARY AND STORM SEWERS CONSTRUCTED WITH THIS PROJECT SHALL BE TELEVISED BY THE CONTRACTOR ONLY WHEN A PAY ITEM IS PROVIDED IN ACCORDANCE WITH CITY OF CANTON'S SUPPLEMENTAL SPECIFICATION:

05-01 SEWER TELEVISION INSPECTION AND DOCUMENTATION PROCEDURE.

NOTE: THE CITY OF CANTON WILL PERFORM CCTV UPON COMPLETION OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ANY IDENTIFIED DEFECTS ASSOCIATED WITH PROPOSED WORK.

(J) PRESERVATION AND RESTORATION OF DISTURBED FEATURES:

EXISTING DRIVES, BERMS, LAWNS, PAVEMENTS, CURBS, SIDEWALKS, SIGNS, MAILBOXES, FENCES, RETAINING WALLS, LANDSCAPING ITEMS, OR OTHER APPURTENANCES DISTURBED DURING CONSTRUCTION BUT NOT SPECIFICALLY DESIGNATED FOR REMOVAL/REPLACEMENT SHALL BE RESTORED BY THE DEVELOPER/CONTRACTOR AT HIS EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO DISTURBANCE AND TO THE COMPLETE SATISFACTION OF THE CITY ENGINEER.

RESTORATION OF EXISTING ROADWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, TOWNSHIP, COUNTY, AND/OR OTHER AGENCIES HAVING AUTHORITY. COST FOR THE RESTORATION OF THESE ITEMS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR, UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIFICATIONS. NO PUBLIC ROADWAY SHALL BE DISTURBED WITHOUT PRIOR WRITTEN APPROVAL FROM THE GOVERNING AGENCY AND ACQUISITION OF NECESSARY PERMITS.

(K) SALVAGED CASTINGS:

WHEN DIRECTED BY THE CITY ENGINEER, ALL METAL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED ON SITE OR DELIVERED TO A LOCATION DESIGNATED BY THE CITY ENGINEER.

(L) PLUG EXISTING CONDUIT:

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT TO BE ABANDONED.

BULKHEADS SHALL CONSIST OF BRICK AND/OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PAYMENT FOR PLUGGING OF EXISTING CONDUIT FOR ABANDONMENT SHALL BE INCLUDED IN THE UNIT BID OF THE VARIOUS ITEMS OF THE PROJECT.

(M) CONSTRUCTION LAYOUT:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT UTILIZING PERTINENT PLAN DATA. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR STAKING HORIZONTAL OR VERTICAL CONTROL CONSTRUCTION LAYOUT SHALL BE IN ACCORDANCE WITH ODOT 623 CONSTRUCTION LAYOUT STAKES.

AT THE CITY ENGINEER'S REQUEST, THE CONTRACTOR SHALL MAKE AVAILABLE ALL SURVEY FIELD NOTES FOR REVIEW.

(N) EXISTING MONUMENTATION:

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND/OR ANY TYPE OF LAND MONUMENT. THE CONTRACTOR SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. THE CONTRACTOR SHALL REPLACE/RESET ANY DISTURBED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

(O) ELEVATION DATUM:

ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.

(P) DEWATERING OPERATIONS:

WHEN DEEMED NECESSARY, THE DEVELOPER/CONTRACTOR MAY INSTALL DEWATERING EQUIPMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE PROPOSED LOCATION OF WELL POINTS, HEADER PIPE, ELECTRICAL DISTRIBUTION, GENERATORS AND DISCHARGE PIPES, ETC. SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS FOR THE INSTALLATION AND SUBSEQUENT REMOVAL OF DEWATERING EQUIPMENT AS WELL AS PROPER WATER DISCHARGE PROCEDURES AS MAY BE REQUIRED PER STATE AND LOCAL GOVERNING AGENCIES.

INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING GROUNDING AND PROTECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.

DEVELOPER/CONTRACTOR SHALL PROVIDE ALL COMBUSTIBLE ENGINE DRIVEN GENERATORS WITH "HOSPITAL GRADE" MUFFLERS. MUFFLERS SHALL BE RATED, AT A MAXIMUM OF 67 dB AT 23 FEET AWAY RUNNING FULL LOAD.

(Q) INSPECTION:

FOLLOWING THE PRE-CONSTRUCTION MEETING(S) AND ESTABLISHMENT OF AN APPROVED SCHEDULE, THE CONTRACTOR SHALL GIVE A MINIMUM 48 HOUR NOTICE BEFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY INFORMED OF HIS/HER CONSTRUCTION SCHEDULE. ALL WORK REQUIRED FOR THIS IMPROVEMENT SHALL BE SUBJECT TO INSPECTION BY THE CITY OF CANTON OR THEIR DESIGNATED REPRESENTATIVE. NO WORK SHALL BE PERFORMED WITHOUT AN AUTHORIZED INSPECTOR PRESENT, UNLESS OTHERWISE APPROVED.

(R) FIELD OFFICE:

IF A PAY ITEM IS PROVIDED, THE DEVELOPER/CONTRACTOR SHALL PROVIDE A FIELD OFFICE IN ACCORDANCE WITH ODOT 619. THE FIELD OFFICE SHALL BE TYPE 'A', UNLESS OTHERWISE SPECIFIED.

III. EARTHWORK I SITE WORK:

(A) EASEMENTS AND RIGHT-OF-WAY:

THE DEVELOPER/CONTRACTOR SHALL STAY WITHIN THE DESIGNATED PROPERTIES, EASEMENTS, AND/OR RIGHT-OF-WAY PROVIDED FOR THE PROJECT AT ALL TIMES. NO MATERIAL SHALL BE STORED NOR ANY WORK PERFORMED ON PRIVATE PROPERTY UNLESS OTHERWISE APPROVED. DISTURBANCE OF EXISTING FEATURES AND/OR IMPROVEMENTS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND AS APPROVED BY THE CITY ENGINEER/PROPERTY OWNER.

(B) SUITABILITY OF SITE:

THE CITY OF CANTON SHALL NOT BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE DEVELOPER/CONTRACTOR MUST APPRAISE THEMSELVES OF ANY EXISTING SITE CONDITIONS WHICH MAY AFFECT THEIR BID OR THE PERFORMANCE OF THE REQUIRED WORK. THE DEVELOPER/CONTRACTOR SHALL PERFORM ANY INVESTIGATIONS AND/OR TESTING NECESSARY TO ADEQUATELY DETERMINE/ESTIMATE TO THEIR SATISFACTION ALL SITE CONDITIONS WHICH COULD AFFECT THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE, BUT NOT BE LIMITED TO, UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, ETC.

(C) REMOVAL/REPLACEMENT OF UNSUITABLE MATERIAL:

THE DEVELOPER/CONTRACTOR SHALL UNDERCUT AND REPLACE UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF THE PROPOSED UTILITIES AND ROADWAY IN ACCORDANCE WITH CITY STANDARD DRAWING NO. 19

IV. ROADWAY / DRIVE APPROACHES / WALK / CURB

(A) PAVEMENT STANDARDS:

PAVEMENTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE CITY STANDARD DRAWINGS AND SPECIFICATIONS (LISTED BELOW) AND ODOT SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

CITY STANDARD DRAWING NO.:

DRIVEWAYS, CURBS, AND PAVEMENT:

#33 "WHEELCHAIR RAMP"

#34 "CROSSWALK AND PAVEMENT TRANSITION"

#41 "ROADWAY BRICK AND CROSSWALK PAVEMENT DETAILS"

CITY SPECIFICATIONS:

"CITY OF CANTON SPECIFICATIONS FOR THE CONSTRUCTION, REPAIR, AND REPLACEMENT OF SIDEWALKS, CURBS, AND DRIVEWAYS"

(B) RESTRICTED WORK SCHEDULE:

NO CONCRETE FINISH WORK OR PERMANENT ASPHALT SHALL BE PLACED FROM NOVEMBER 15TH TO APRIL 15TH UNLESS WRITTEN APPROVAL IS GRANTED BY THE CITY ENGINEER.

(C) ASPHALT/CONCRETE:

IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF ASPHALT OR CONCRETE. WORK SHALL NOT PROCEED UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE CITY ENGINEER.

V. SANITARY SEWERS / STORM SEWERS

(A) SEWER STANDARDS:

ALL SANITARY/STORM SEWER CONDUITS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO APPLICABLE CITY STANDARD DRAWINGS AND SPECIFICATIONS (LISTED BELOW) AND ODOT SPECIFICATIONS EFFECTIVE AT THE TIME OF CONSTRUCTION, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

CITY STANDARD DRAWING NO.:

CATCH BASINS:

#1 "CURB INLET CATCH BASIN"

- CATCH BASIN, MISC.: CITY OF CANTON CB#1

CONDUITS AND TRENCHES:

#19 "UTILITY TRENCH REQUIREMENTS"

VI. STORM WATER POLLUTION PREVENTION:

AN EPA NPDES CONSTRUCTION STORM WATER PERMIT AND SWP3 IS NOT REQUIRED. HOWEVER, THE DEVELOPER/ CONTRACTOR SHALL STILL ENSURE THAT APPROPRIATE PRACTICES ARE IN PLACE TO PROVIDE CONSTRUCTION RUNOFF AND EROSION AND SEDIMENT CONTROLS WITHIN THE PROJECT LIMITS. SUCH PRACTICES MAY INCLUDE THE USE OF SILT FENCE, STORM DRAIN INLET PROTECTION, JUTE MATTING, TEMPORARY SEEDING, MULCHING, CHECK DAMS, CONSTRUCTION ENTRANCES, CONCRETE WASHOUT AREAS, ETC. ALL PRACTICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES' RAINWATER AND LAND DEVELOPMENT MANUAL, AS APPLICABLE.

EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL PRACTICES AND WILL BE HELD RESPONSIBLE FOR ADDRESSING ANY ON- OR OFF-SITE EROSION/SEDIMENT ISSUES RELATED TO THE PROJECT. THE OWNER/DEVELOPER/CONTRACTOR SHALL ABIDE BY ALL ORDERS ISSUED BY THE CITY PURSUANT TO INSPECTION OF THE PROJECT SITE.

VII. TRAFFIC:

(A) MAINTAINING TRAFFIC:

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO AND THROUGH THE PROJECT AS DESCRIBED BELOW AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION MANUAL OF CONSTRUCTION AND MATERIALS SPECIFICATIONS ITEM 614 MAINTAINING TRAFFIC. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL SIGNS, FLAGS, FLAGMEN, WATCHMEN, BARRICADES, SIGN SUPPORTS, CONES, BARRELS, AND INCIDENTALS IN CONFORMANCE WITH THE MOST RECENT REVISIONS OF THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. INTERFERENCE WITH VEHICULAR TRAFFIC SHALL BE KEPT TO A MINIMUM AT ALL TIMES. ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE PROTECTED WITH DRUMS, BARRICADES, OR BARRIERS. ACCESS SHALL BE MAINTAINED AT ALL TIMES FOR EMERGENCY AND FIRE DEPARTMENT VEHICLES.

ANY TEMPORARY ROADWAY CLOSING MUST BE APPROVED IN WRITING BY THE CITY TRAFFIC ENGINEER AND ANY OTHER PUBLIC AGENCY HAVING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEER AT LEAST 72 HOURS IN ADVANCE OF ANY SUCH CLOSINGS FOR PUBLICATION AND EMERGENCY AGENCY NOTIFICATION.

(B) RESIDENTIAL AND BUSINESS AREAS:

THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL RESIDENCES AND BUSINESSES DURING CONSTRUCTION. IN THE EVENT A DRIVE ACCESS NEEDS TO BE CLOSED. THE CONTRACTOR SHALL GIVE NOTICE OF CLOSURE AND DURATION TO THE PROPERTY OWNER 24 HOURS IN ADVANCE. CONTRACTOR SHALL ARRANGE FOR ALTERNATE PARKING AND REASONABLE ACCESS FOR THOSE PROPERTY OWNERS AFFECTED BY DRIVE CLOSURES.

(C) EXISTING STREET NAME AND TRAFFIC CONTROL SIGNS:

WHERE WORK REQUIRES THE MOVEMENT OF EXISTING SIGNS (STOP SIGNS, SPEED LIMIT SIGNS, NO PARKING SIGNS, ETC.). THE CONTRACTOR IS REQUIRED TO MAINTAIN THE FUNCTION OF ALL TRAFFIC CONTROL SIGNS. ALL SIGNS REMOVED BY THE CONTRACTOR SHALL BE STORED ON SITE AND REINSTALLED BY THE CONTRACTOR.

(D) NEW STREET NAME & TRAFFIC CONTROL SIGNS:

ALL STREET NAME AND TRAFFIC CONTROL SIGNS SHALL COME COMPLETE AND BE MADE IN ACCORDANCE WITH THE CITY OF CANTON SIGN AND PAINT DEPARTMENT SPECIFICATIONS. GENERALLY, ALL SIGNS SHALL HAVE HI-INTENSITY SHEETING AND BE MADE WITH .080 50/52 ALUMINUM. STREET NAME SIGNS SHALL BE MADE WITH WHITE UPPER AND LOWER CASE LETTERING ON GREEN BACKGROUND USING 9" BLANKS, BE DOUBLED SIDED W/RADIUS CORNERS AND HAVE 6" NAME AND 3" SUFFIXES. ALL SIGN RELATED HARDWARE IS TO BE INCLUDED. SUCH AS 6" HEAVY DUTY U-CHANNEL CAPS AND STREET NAME CROSSES.

FOR SUBDIVISION DEVELOPMENTS, ALL PERMANENT STREET NAME SIGNS AND TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND INSTALLED BY THE DEVELOPER/CONTRACTOR.

(E) EXISTING TRAFFIC SIGNALS:

WHERE WORK REQUIRES INTERFERENCE WITH EXISTING SIGNALIZATION IN THE INTERSECTIONS, ALL WORK SHALL BE COORDINATED THROUGH THE CITY ENGINEER. THE CONTRACTOR SHALL NOT ALTER ANY SIGNALIZATION WITHOUT THE CITY ENGINEER'S AUTHORIZATION.

(F) NEW TRAFFIC SIGNALIZATION:

ALL NEW OR MODIFIED TRAFFIC SIGNALIZATION AT INTERSECTIONS SHALL BE IN ACCORDANCE WITH CITY TRAFFIC ENGINEERING TRAFFIC CONTROL GENERAL NOTES AND ODOT SPECIFICATIONS; WITH SPECIAL EMPHASIS ON ODOT ITEMS 625, 632, 633, 732, AND 733 WHICH DEALS WITH TRAFFIC CONTROL

(G) TRAFFIC CONTROL PLAN:

THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH CITY SUPPLEMENTAL SPECIFICATION 01-00. DETOURS. IF NECESSARY. SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO PLAN SUBMISSION.

VIII. WATER MAIN/SERVICES:

1. ALL WATER MAINS, SERVICES AND APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED ACCORDING TO THE CITY OF CANTON WATER DEPARTMENT REQUIREMENTS AND SPECIFICATIONS IN EFFECT AT THE TIME OF CONSTRUCTION.

2. MAINS - WATER MAINS SHALL BE CLASS 52 (8" AND UNDER), CLASS 53 (12"), OR CLASS 54 (OVER 12") DUCTILE IRON, MEETING AWWA C151 WITH PUSH JOINTS. THE OUTSIDE SURFACE OF ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES SHALL BE SHOP COATED WITH ASPHALTIC MATERIAL. IF THE COATING MATERIAL IS FOUND TO BE DAMAGED PRIOR TO THE PIPE TRENCH BEING BACKFILLED, THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL APPROVED MATERIAL AS REQUIRED TO REPAIR AS DIRECTED. THE CONTRACTOR SHALL HAVE SUFFICIENT COATING MATERIALS AVAILABLE AT THE JOB SITE PRIOR TO LAYING THE PIPE. THE INTERIOR OF ALL PIPES AND FITTINGS SHALL BE LINED WITH CEMENT MORTAR AND SEAL COATED IN COMPLETE CONFORMANCE WITH AWWA C104, OR THE LATEST REVISION.

3. ALL DUCTILE IRON PIPE, INCLUDING FITTINGS, BENDS, TEES, VALVES AND APPURTENANCES BURIED UNDERGROUND, SHALL BE ENCASED WITH 8 MIL. POLYETHYLENE FILM CONFORMING TO AWWA C105.

4. THE MINIMUM COVER OVER WATER MAINS SHALL BE 4'-6" FROM GROUND SURFACE TO THE BARREL OF THE PIPE.

5. PIPE LENGTHS MAY BE DEFLECTED AT THE JOINT, IF REQUIRED, AT ONE-HALF THE DEGREE RECOMMENDED BY THE MANUFACTURER.

6. FITTINGS SHALL BE DUCTILE IRON AND BE RATED FOR 250 PSI WORKING PRESSURE IN ACCORDANCE WITH AWWA C110 OR AWWA C153. FITTINGS SHALL INCLUDE, BUT NOT LIMITED TO BENDS, TEES, SLEEVES, COUPLINGS, CROSSES, REDUCERS AND CAPS.

7. ANY FITTING OR VALVE ADJACENT TO A TEE OR CROSS SHALL BE ANCHORED TO THE TEE OR CROSS WITH EITHER THE USE OF AN ANCHOR TEE OR ANCHOR CROSS OR AN ANCHOR COUPLING.

8. VALVES - THE ITEMS COVERED BY THIS SPECIFICATION SHALL MEET ALL APPLICABLE AWWA C509 OR C515 STANDARDS AND THE FOLLOWING: ALL VALVES SHALL BE NON-RISING STEM, IRON BODY, RESILIENT WEDGE DISC. THE DESIGN OF THE THRUST COLLAR SHALL BE SUCH THAT THE THRUST COLLAR IS SEALED FROM LINE PRESSURE BY MEANS OF AN "O" RING SEAL. ALL VALVES SHALL BE FURNISHED WITH A TWO (2) INCH SQUARE OPERATING NUT, OPEN RIGHT. ALL VALVES SHALL BE FURNISHED WITH MECHANICAL JOINT END CONNECTIONS. THE STEM SHALL BE PROTECTED FROM EXTERNAL GRIT BY A WEATHER SHIELD AND AN UPPER "O" RING. STEM SHALL BE LUBRICATED. GATE COATING SHALL HAVE A MINIMUM THICKNESS OF 10 MILS. VALVE SHALL BE TESTED AT THE RATED WORKING PRESSURE OF 250 PSI WITH NO LEAKAGE. SHELL TEST OF 500 PSI SHALL BE APPLIED TO BODY WITH VALVE IN THE OPEN POSITION WITH NO LEAKAGE THROUGH THE METAL, STEM SEALS OR JOINTS. VALVE MUST HAVE TRADITIONAL STUFFING BOX. ALL BOLTING MATERIAL IN THE THRUST COLLAR AND BONNET SHALL BE #316 SS BOLTS. ALL VALVES WITH ACCESSORIES PACK (FLANGES, RUBBERS, NUTS, BOLTS)

9. ALL VALVE BOXES SHALL BE HEAVY DUTY, THREE (3) PIECE SCREW TYPE, WITH "WATER" LIDS.

10. FLUSHING AND DISINFECTION OF WATER MAINS SHALL BE IN ACCORDANCE WITH AWWA C651.

11. ALL WATER LINE PRESSURE TESTING SHALL CONFORM TO AWWA C600.

12. WATER MAINS SHALL BE INSTALLED AND BACKFILLED PER ODOT ITEM 638.

13. WATER LINES LOCATED WITHIN THE LIMITS OF OR WITHIN A 1/2 TO 1 SLOPE OF EXISTING AND/OR PROPOSED ROADWAYS, PARKING AREAS, BUILDINGS, SIDEWALKS, AND/OR DRIVES SHALL BE INSTALLED AS TYPE B CONDUITS. ALL OTHER WATER MAINS SHALL BE INSTALLED AS TYPE C CONDUITS. BEDDING SHALL BE AS SPECIFIED, EXCEPT THAT SLAG WILL NOT BE PERMITTED.

14. ALL BENDS, FITTINGS, TEES, VALVES, DEAD ENDS, ETC. SHALL BE SECURED EQUAL. POURED-IN-PLACE CONCRETE THRUST BLOCKS SHALL ALSO BE PROVIDED AT/FOR EACH BENDS, FITTING, TEE, DEAD END, ETC. THIS BLOCKING SHALL BE CAREFULLY PLACED TO ENSURE IT IS POSITIONED PROPERLY TO WITHSTAND THE RESULTANT FORCES AT EACH BEND, FITTING, ETC. AND SHALL BEAR ON STABLE UNDISTURBED GROUND CAPABLE OF WITHSTANDING THE POTENTIAL LOADING. WHEN DIRECTED BY THE CITY, TIE RODS ARE TO BE 3/4 INCH DIAMETER. TWO TIE RODS ARE REQUIRED FOR AN 8 INCH PIPE, AND FOUR TIE RODS ARE REQUIRED FOR 12 INCH AND GREATER PIPE.

15. IN ADDITION TO THE RESTRAINT OF ALL BENDS, FITTINGS, TEES, VALVES, DEAD ENDS, ETC. THE CONTRACTOR SHALL ALSO SECURE/RESTRAIN ALL JOINTS FOR AT LEAST THREE (3) PIPE JOINTS (50 LF MIN.) BEYOND EACH DEAD END, BEND, FITTING, VALVE, TEE, ETC. UTILIZING MEGALUGS, FIELD LOK GASKETS, OR APPROVED EQUALS.

16. THE CONTRACTOR SHALL PROVIDE 18" VERTICAL CLEARANCE BETWEEN PROPOSED WATERLINES AND ANY SANITARY OR STORM SEWERS. WHEN 18" CLEARANCE BETWEEN A WATERLINE AND A SANITARY OR STORM SEWER CANNOT BE OBTAINED, THE CONTRACTOR SHALL PROVIDE CONCRETE ENCASEMENT AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN TEN (10) FOOT HORIZONTAL CLEARANCE BETWEEN WATERLINES/SERVICES AND SANITARY OR STORM SEWERS.

17. HYDRANTS - THE FIRE HYDRANT SETTING SHALL INCLUDE THE HYDRANT, ANCHOR TEE, VALVE, VALVE BOX, 6 INCH DUCTILE IRON (CLASS 52) PIPING AND ALL FITTINGS NEEDED FOR PROPER INSTALLATION TO FINAL GRADE. FIRE HYDRANTS SHALL BE MUELLER A423 MEETING THE CITY OF CANTON WATER DEPARTMENT STANDARDS AND REQUIREMENTS. ALL COSTS FOR THE 6" PIPING ASSOCIATED WITH THE INSTALLATION OF FIRE HYDRANTS SHALL BE INCLUDED WITH THE FIRE HYDRANT PAY ITEM. ALL HYDRANTS SHALL BE INSTALLED WITH THE PUMPER NOZZLE FACING THE STREET. ALL FIRE HYDRANT THREADS SHALL BE LUBRICATED WITH A FOOD GRADE LUBRICANT AND OPERATED UPON INSTALLATION.

18. CUT-IN SLEEVES FOR TIE-IN TO EXISTING WATER MAINS SHALL BE SMITH BLAIR 441 SLEEVES WITH #316 SS BOLTS.

19. ALL WATER TAPS AND SERVICES MUST BE INSTALLED BEFORE ANY PAVEMENT FOR THE PROPOSED ROADWAY HAS BEEN PLACED. CONTRACTOR SHALL MAKE ALL SERVICE TAPS ON THE WATER MAIN.

20. PRIOR TO MAKING THE TAP, THE CONTRACTOR SHALL EXPOSE THE EXISTING CURB BOX AND VERIFY THE SIZE OF THE WATER SERVICE LINE ON THE OWNER'S SIDE. THE PROPOSED TAP AND SERVICE SHALL MATCH THE SIZE OF THE OWNER'S SERVICE LINE, WITH 1" BEING A MINIMUM. AN EXISTING 1 1/4" SERVICE SHALL BE REPLACED WITH A 1 1/2" SERVICE AND TAP.

21. THE PROPOSED WATER SERVICES AND TAPS SHALL BE 1" UNLESS NOTED OTHERWISE ON THE PLANS OR DETERMINED OTHERWISE PER PREVIOUS NOTE.

22. ANY SERVICE TO THE FAR SIDE OF THE STREET SHALL BE PUSHED OR BORED UNDER THE PAVEMENT. TRENCHING ACROSS THE ROAD IS NOT PERMITTED.

23. THE CONTRACTOR SHALL TAKE ANY AND ALL NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN IN SERVICE, ANY EXISTING WATER MAINS AND/OR SERVICES EXPOSED DURING CONSTRUCTION. IF THE CONTRACTOR BREAKS A WATER MAIN AND/OR SERVICE, HE SHALL BE RESPONSIBLE TO REPAIR THE BREAK, AT HIS OWN EXPENSE, AND WILL NOT BE COMPENSATED FOR THIS DOWN TIME.

24. ANY WATER SERVICE LINE THAT IS BROKEN, CUT OR OTHERWISE DAMAGED, SHALL BE REPLACED FROM THE CORPORATION STOP TO THE CURB STOP WITH A SINGLE PIECE OF HDPE TUBING, CTS, PE4710. NO SPLICING OF THE SERVICE LINE WILL BE PERMITTED.

25. SERVICE BRANCHES WILL BE INSTALLED AS PER ODOT ITEM 638.16, EXCEPTION WHEN A SERVICE BRANCH IS DISTURBED FOR LOWERING, RAISING, EXTENDING OR SHORTENING ON THE PROPERTY SIDE ON THE SERVICE STOP, IT SHALL BE REPLACED WITH NEW MATERIALS FROM THE CORPORATION STOP TO THE SERVICE STOP.

26. IN A STREET IMPROVEMENT, NO EXISTING WATER CURB BOX WILL BE LEFT IN THE PAVEMENT, CURB AND GUTTER OR SIDEWALK. THE CURB BOX WILL BE MOVED TO A SUITABLE LOCATION DETERMINED BY THE CANTON WATER DEPARTMENT. WHEN THE CURB BOX IS MOVED, ALL NEW MATERIAL WILL BE USED FROM THE CORPORATION STOP TO THE CURB STOP WHICH IS A SINGLE PIECE OF HDPE TUBING, CTS, PE4710. NO SPLICING OF THE SERVICE LINE WILL BE PERMITTED. A NEW TAP (CORPORATION STOP) AND CURB STOP AND BOX MAY ALSO BE REQUIRED. THE DETERMINATION WILL BE MADE BY THE CANTON WATER DEPARTMENT.

27. POLYETHYLENE WATER MAIN AND SERVICE TUBING 2" AND UNDER SHALL BE COPPER TUBE SIZE, SDR 9, WITH A MINIMUM PRESSURE CLASS OF 200 PSI AND MEET STANDARDS ASTM-D2737 PE4710 AND AWWA C901. THE ACCEPTABLE TUBING IS CP CHEM PERFORMANCE PIPE DRISCOPLEX 5100-ULTRA-LINE, CHARTER PLASTICS INC. BLUE ICE, ENDOT ENDOPURE AND ADS POLYFLEX.

28. THE PROPOSED FACILITIES SHALL MAINTAIN A MINIMUM 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.

29. A MINIMUM PRESSURE OF 20 PSI AT GROUND LEVEL SHALL BE MAINTAINED AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW.

30. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.

31. WHEN AN EXISTING WATER MAIN MUST BE SHUT DOWN TO PERFORM REQUIRED WORK, THE CONTRACTOR SHALL NOTIFY THE PROPERTIES TO BE AFFECTED A MINIMUM OF 24 HOURS IN ADVANCE OF SAID SHUT DOWN. THE WORK WILL BE SCHEDULED AND COORDINATED TO MINIMIZE THE TIME THE MAIN IS OUT OF SERVICE.

32. THE CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS IN ADVANCE OF ANY SHUT DOWN OF AN EXISTING MAIN. THE CONTRACTOR WILL NOT OPERATE ANY VALVES. VALVES WILL BE OPERATED BY CANTON WATER DEPARTMENT PERSONNEL ONLY. VALVES DAMAGED BY THE CONTRACTOR'S OPERATION WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

33. ALL VALVE BOXES WILL BE ADJUSTED TO FINAL GRADE OF SURROUNDING PAVEMENT OR FINISHED SURFACE TREATMENTS WHEN THE PROJECT IS COMPLETED.

34. ANY DIGGING WITHIN THE RIGHT-OF-WAY OF ANY STREET REQUIRES A ROAD OPENING PERMIT. PLEASE CONTACT THE APPROPRIATE GOVERNMENTAL ENTITY FOR INFORMATION REGARDING THE PERMITTING PROCESS AND/OR FEES DUE.

35. THE CONTRACTOR SHALL REPLACE ANY TRAFFIC SIGNAL LOOP DETECTOR WIRE DAMAGED DURING THE WATERLINE INSTALLATION. THIS COST SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ALL ITEMS IN THE PROPOSAL.

36. THE CONTRACTOR SHALL REPLACE ANY ROADWAY PAVEMENT MARKINGS DAMAGED OR REMOVED DURING THIS PROJECT. THE PAVEMENT MARKINGS SHALL BE PER THE GOVERNING AUTHORITY'S SPECIFICATIONS. THIS COST SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ALL ITEMS IN THE PROPOSAL.

37. THE CONTRACTOR SHALL REPLACE ANY PRIVATE IRRIGATION SYSTEMS AND/OR UNDERGROUND ELECTRIC FENCES THAT ARE DAMAGED OR REMOVED DURING THE WATERLINE CONSTRUCTION. THIS COST SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ALL ITEMS IN THE PROPOSAL.

38. VALVES THAT ARE CALLED OUT TO BE ABANDONED SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO ABANDON EXISTING WATER VALVES. THIS ITEM SHALL ALSO INCLUDE ANY NECESSARY EXCAVATION AND BACKFILL REQUIRED. VALVES SHALL BE CLOSED AND HAVE THE TOP 6" OF THE CASTING REMOVED. VALVES IN PAVEMENT SHALL BE FILLED WITH CONCRETE WITH THE TOP 6" MATCHING THE EXISTING PAVEMENT COMPOSITION. VALVES IN YARD AREA SHALL BE FILLED WITH SAND.

39. FIRE HYDRANTS THAT ARE CALLED OUT TO BE REMOVED SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO REMOVE THE FIRE HYDRANT, HYDRANT VALVE AND PLUG THE HYDRANT TEE.

40. FOR WATERLINES CALLED OUT TO BE ABANDONED, THE CONTRACTOR SHALL PLUG AND ABANDON THE EXISTING WATERLINE WITH A DUCTILE IRON PLUG OR AS DIRECTED BY THE CANTON WATER DEPARTMENT.

41. REMOVAL OF ANY EXISTING THRUST BLOCKS WILL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT COST.

IX. POST-CONSTRUCTION INCIDENTALS:

(A.) AS-BUILT DRAWINGS:

REPRODUCIBLE MYLAR'S SHALL BE PROVIDED TO THE CITY OF CANTON BY THE DESIGN ENGINEER AT THE COMPLETION OF THE PROJECT. AS-BUILT INFORMATION CONSISTS OF POST-CONSTRUCTION FIELD SURVEY DATA OF THE LOCATION, FLOWLINE ELEVATIONS, AND TOP OF GRATE/RIM ELEVATIONS FOR ALL STORM AND SANITARY STRUCTURES CONSTRUCTED AND/OR IMPACTED BY THE PROJECT.

FOR PRIVATE PROJECTS, THE CONSTRUCTION BOND WILL NOT BE RELEASED UNTIL THE AS-BUILT DRAWINGS HAVE BEEN ACCEPTED.

(B) PROPOSED MONUMENTATION:

THE DEVELOPER'S/CONTRACTOR'S SURVEYOR SHALL NOTIFY THE CITY ENGINEER IN WRITING UPON THE COMPLETION OF MONUMENTS BEING SET AS PER PLAN OR RECORD PLAT

(C) RELEASE OF RETAINER/BONDS:

PRIOR TO THE RELEASE OF RETAINER/CONSTRUCTION BOND BY THE CITY OF CANTON, THE CONTRACTOR SHALL HAVE COMPLETED THE ENGINEER'S PROJECT PUNCHLIST AND SUBMIT FINAL WAIVER OF LIEN IN ACCORDANCE WITH CITY SS 01-00

X. WATERLINE CONSTRUCTION NOTES:

1. TEMPORARY VALVES AND TEMPORARY SERVICES ALLOW FOR THE CONTRACTOR, WITHOUT INTERRUPTING SERVICES, TO ABANDON SECTIONS OF EXISTING WATER MAIN WHICH ARE LIKELY TO BE IN CONFLICT WITH PROPOSED WATER MAIN. THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE APPROVED BY THE CANTON WATER DEPARTMENT.

2. EXCAVATION AND DISPOSAL OF EXISTING WATER MAIN AND VALVES ENCOUNTERED DURING CONSTRUCTION OF PROPOSED WATER MAIN SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

3. PRIOR TO ORDERING THE 18" X 8" TAPPING SLEEVE (TO BE USED TO TIE INTO THE WATERLINE ON MARKET AVE.), THE CONTRACTOR SHALL EXPOSE THE EXISTING 18" WATERLINE TO VERIFY THE O.D. SIZE, MATERIAL, AND HORIZONTAL/VERTICAL LOCATIONS.

4. THE 18" X 8" TAPPING SLEEVE SHALL BE SMITH-BLAIR 622 TAPPING SLEEVE, OR APPROVED EQUAL, WITH M.J. OUTLET. THE TAPPING SLEEVE SHALL BE EPOXY COATED AND SHALL USE TYPE 316 STAINLESS STEEL BOLTS. TAPPING SLEEVE SHALL BE WRAPPED WITH POLYETHYLENE AND CONCRETE ENCASED.

5. THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE FOLLOWED UNLESS AN ALTERNATE IS APPROVED, IN WRITING , BY THE CANTON WATER DEPARTMENT.

A. INSTALL THE THREE TEMPORARY VALVES AT APPROXIMATE STATIONS, 599+65 SPRING AVENUE, 202+53 22ND STREET AND 303+15 24TH STREET. ALSO INSTALL THE TEMPORARY SERVICES FOR #126 22ND STREET AND #123 22ND STREET.

B. TIE INTO THE EXISTING 18" WATER MAIN ON MARKET AVENUE AND INSTALL THE PROPOSED WATERLINE ON 23RD STREET TO THE PROPOSED 8" X 6" TEE.

C. CONTINUE TO INSTALL THE PROPOSED WATERLINE TO THE SOUTH ON 22ND STREET. ONCE THE PROPOSED WATERLINE BECOMES IN CONFLICT WITH THE EXISTING WATERLINE, CLOSE THE APPLICABLE, EXISTING VALVES (INCLUDING THE TEMPORARY VALVES ON SPRING AND 22ND STREET) AND INSTALL THE THREE 6" PLUGS AT APPROXIMATE STATIONS 200+86 23RD STREET, 202+06 22ND STREET AND 202+29 22ND STREET. CONTINUE INSTALLING THE PROPOSED WATERLINE ON 22ND STREET. WITHIN THE LIMITS OF THE TWO PLUGS, REMOVE THE CONFLICTING, EXISTING WATERLINE AS YOU PROCEED.

D. FROM THE 8" X 6" TEE ON 23RD STREET, INSTALL THE PROPOSED WATERLINE TO THE NORTH ON 24TH STREET. ONCE THE PROPOSED WATERLINE BECOMES IN CONFLICT WITH THE EXISTING WATERLINE, CLOSE THE APPLICABLE, EXISTING VALVES (INCLUDING THE TEMPORARY VALVE ON 24TH STREET) AND INSTALL THE TWO 6" PLUGS AT APPROXIMATE STATIONS 300+77 24TH STREET AND 302+86 24TH STREET. CONTINUE INSTALLING THE PROPOSED WATERLINE ON 24TH STREET. WITHIN THE LIMITS OF THE TWO PLUGS, REMOVE THE CONFLICTING, EXISTING WATERLINE AS YOU PROCEED.

E. INSTALL THE REMAINDER OF THE PROPOSED WATERLINE.

CONTINGENCY ITEMS - AS DIRECTED BY ENGINEER:

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

FILLER AGGREGATE WITHIN BRICK PAVEMENT RESTORATION AREA:
ITEM 304-AGGREGATE BASE 182 CY

GENERAL ITEMS WITHIN PROJECT LIMITS:

ITEM 202-WALK REMOVED 250 SF
ITEM 202-CURB AND GUTTER REMOVED 100 FT
ITEM 608-4" CONCRETE WALK 250 SF
ITEM 609-COMBINATION CURB AND GUTTER, TYPE 2 100 FT.

ITEM 611 - CATCH BASIN, MISC.:

CURB INLET CATCH BASIN SCD#1

THIS ITEM SHALL CONSIST OF CONSTRUCTING A CURB INLET CATCH BASIN PER CITY OF CANTON STANDARD DRAWING #1 AT LOCATIONS SHOWN IN THE PLANS.

THE CONTRACTOR SHALL INSTALL THE NEW DRAINAGE STRUCTURE FLUSH WITH ADJACENT CURB & GUTTER AND BRICK PAVEMENT. ALL EXISTING PIPES SHALL BE CONNECTED INTO IT AT SAME ELEVATIONS AND ORIENTATIONS UNLESS SPECIFICALLY CALLED OUT DIFFERENTLY IN THE PLANS.

ITEM 611 - CATCH BASIN, MISC.:

HILLSIDE CURB INLET CATCH BASIN SCD#3

THIS ITEM SHALL CONSIST OF CONSTRUCTING A HILLSIDE CURB INLET CATCH BASIN PER CITY OF CANTON STANDARD DRAWING #3 AT LOCATIONS SHOWN IN THE PLANS.

THE CONTRACTOR SHALL INSTALL THE NEW DRAINAGE STRUCTURE FLUSH WITH ADJACENT CURB & GUTTER AND BRICK PAVEMENT. ALL EXISTING PIPES SHALL BE CONNECTED INTO IT AT SAME ELEVATIONS AND ORIENTATIONS UNLESS SPECIFICALLY CALLED OUT DIFFERENTLY IN THE PLANS.

ITEM 611 - MANHOLE, MISC.:

MANHOLE SEALING WITH A PROTECTIVE POLYMER LINING

ALL SANITARY MANHOLES WITHIN THE PROJECT LIMITS SHALL BE SEALED. MANHOLE SEALING SHALL BE PERFORMED PER SPECIFICATION 02567.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 611-MANHOLE, MISC.: MANHOLE SEALING 9 EACH
WITH A PROTECTIVE POLYMER LINING

ITEM SPECIAL - BRICK PAVEMENT RESTORATION

DESCRIPTION: THIS ITEM SHALL CONSIST OF REMOVAL OF EXISTING BRICK PAVEMENT/SAND LAYER AND PLACEMENT OF PROPOSED AND/OR SALVAGED BRICK PAVEMENT/SAND LAYER AT LOCATIONS SHOWN IN THE PLANS.

MATERIALS:

A.) REPLACEMENT BRICK PAVER - REPLACEMENT BRICK PAVERS ARE TO BE NEW HEAVY VEHICULAR PAVING BRICKS IN ACCORDANCE WITH ASTM C1272. BRICK PAVERS WILL BE VISUALLY INSPECTED SUBSEQUENT TO DELIVERY, AND PRIOR TO, DURING OR AFTER LAYING AND ROLLING. BRICK PAVERS NOT IN ACCORDANCE WITH ASTM C1272 WILL BE REJECTED. REPLACEMENT BRICK PAVERS THAT ARE SO KILN MARKED OR DISTORTED IN BURNING AS TO LAY UNEVENLY IN PAVEMENT SECTION, WILL BE REJECTED. REPLACEMENT BRICK PAVERS ARE TO CONFORM IN SIZE AND COLOR TO EXISTING BRICK PAVERS ORIGINALLY USED FOR PAVEMENT AREA TO BE RESTORED. COLOR OF REPLACEMENT BRICK PAVERS IS TO BE PERMANENT AND REASONABLY UNIFORM THROUGHOUT BRICK PAVER. WHEN SAMPLE PIECES OF REPLACEMENT BRICK PAVERS BROKEN, BRICK PAVER IS TO EXHIBIT UNIFORMITY OF TEXTURE AND STRUCTURE, AND IS TO BE FREE FROM OPEN OR MARKET LAMINATIONS. FOR GRADES OF 6 PERCENT OR OVER, BRICK PAVERS ARE TO HAVE ONE OR MORE LONGITUDINAL EDGES OR FACES CHAMFERED OR GROOVED UP TO $\frac{3}{4}$ INCH.

AT A MINIMUM, REPLACEMENT BRICK PAVERS ARE TO CONFORM TO THE CITY OF CANTON BRICK PAVER STANDARDS WHICH ARE AS FOLLOWS:

4X8 BRICK PAVERS, 2- $\frac{3}{4}$ " THICK - ROADWAY PAVER BY BELDEN BRICK - ASTM C1272 TRAFFIC TYPE F, APPLICATION PX, WEATHER SX, 10,000 PSI, COLOR JUMBO REGIMENTAL

BRICK ALTERNATE - ROADWAY PAVER BY WHITACRE GREER 4X8- $\frac{1}{2}$ X 3- $\frac{1}{2}$, ASTM C1272 TRAFFIC TYPE F, APPLICATION PX, WEATHER SX, 10,000 PSI, COLOR 33 DARK ANTIQUE, BRICK TO HAVE BEVELED EDGE AND LUGS

B.) COARSE SAND - COARSE SAND IS TO BE CLEAN WASHED WELL GRADED ANGULAR SAND WITH MAXIMUM PARTICLE SIZE OF $\frac{3}{8}$ INCH, WITHOUT ANY FINE LIMESTONE SCREENINGS, FREE OF SALTS AND OTHER DELETERIOUS MATERIALS, AND IN ACCORDANCE WITH ASTM C33 CONCRETE AGGREGATES.

AT A MINIMUM, COARSE SAND IS TO CONFORM TO THE CITY OF CANTON BRICK PAVER STANDARDS WHICH ARE AS FOLLOWS:

1-INCH MAX COMPACTED SAND ODOT 703.02 (ASTM C33) SETTING BED W/ MORTAR.

C.) POLYMERIC JOINTING SAND - POLYMERIC JOINTING SAND FOR FILLING JOINTS IS TO BE MIX OF GRADED SAND AND BINDER, ESPECIALLY FORMULATED FOR FILLING OF NARROW OR WIDE JOINTS FOR BRICK, SLATE AND STONE PAVER CONSTRUCTION. AFTER SETTING-UP, POLYMERIC JOINTING SAND MATERIAL IS TO BE FLEXIBLE, ALLOWING FOR MOVEMENT WITHOUT CRACKING. POLYMERIC JOINTING SAND IS TO BE RESISTANT TO INSECT INFESTATION, WEED GROWTH AND EROSION CAUSED BY RAIN, FROST, WIND AND SUCTION. POLYMERIC JOINTING SAND IS TO BE SUITABLE FOR STABILIZING HORIZONTAL OR SLOPING INSTALLATIONS SUCH AS FOR STREETS, DRIVEWAYS, SIDEWALKS, PARKING LOTS AND CURB PARK AREAS.

AT A MINIMUM, POLYMERIC JOINTING SAND IS TO CONFORM TO THE CITY OF CANTON BRICK PAVER STANDARDS WHICH ARE AS FOLLOWS:

SWEEP JOINTS WITH DRY MIXTURE OF POLYMERIC SAND TECHNI-SEAL OR APPROVED EQUAL. USE PLATE TAMPER WITH RUBBER MAT OR OTHER PROTECTION FOR BRICK. REMOVE EXCESS AND MOISTEN TO SET JOINT SEALANT SAND.

D.) EXISTING PAVEMENT BASE AND SUBBASE - BASED ON CITY'S PAST EXPERIENCE, THE 6" CONCRETE BASE HAS DETERIORATED OVER TIME AND HAS REDUCED TO AN AGGREGATE BASE MATERIAL. IT SHALL REMAIN IN PLACE AND A CONTINGENCY PAY ITEM FOR ADDITIONAL ITEM 304 - AGGREGATE BASE HAS BEEN INCLUDED IN THE PLANS TO FILL IN VOIDS AND/OR LEVELING PURPOSES. AFTER ALL BACKFILL AND AGGREGATE MATERIAL HAS BEEN PLACED FOR STORM SEWER AND WATERLINE WORK, THE EXISTING PAVEMENT BASE AND SUBBASE SHALL BE CEMENT STABILIZED UNDER A SEPARATE PAY ITEM.

CONSTRUCTION DETAILS:**A.) GENERAL:**

BRICK PAVERS ARE TO BE HANDLED CAREFULLY DURING HAULING, UNLOADING AND LAYING, SO AS TO PREVENT SPALLING OR OTHERWISE DAMAGING BRICK PAVERS.

BRICK PAVERS ARE TO BE STORED AT LOCATION THAT IS SAFE AND SECURE FROM DAMAGE BY CONTRACTOR'S ONGOING OPERATIONS, AND FROM VANDALISM, THEFT OR OTHER MISHAP. BRICK PAVERS ARE NOT TO BE STACKED MORE THAN FIVE HIGH, WITH BOTTOM ROW PLACED ON LEVEL GROUND TO PROVIDE EVEN BEARING ACROSS ENTIRE BRICK PAVER SURFACE. WORK IS TO BE PHASED SO AS TO REDUCE TO MINIMUM AMOUNT OF TIME BRICK PAVERS ARE TO BE STORED.

BRICK PAVERS ARE TO BE COVERED TO PREVENT MUD, DIRT OR OTHER MATERIAL FROM COLLECTING ON BRICK PAVERS. BRICK PAVERS THAT BECOME SOILED ARE TO BE CLEANED BEFORE USE.

BRICK PAVERS ARE NOT TO BE INSTALLED WHEN AMBIENT AIR TEMPERATURE IS UNDER 40°F, OR IS EXPECTED TO FALL BELOW 40°F WITHIN FOLLOWING 24 HOUR PERIOD.

CUTTING STRAIGHT EDGES OF BRICK PAVERS IS TO BE DONE WITH WATER COOLED RADIAL CUT-OFF TYPE MASONRY SAW FOR SHARP, STRAIGHT EDGE. CUTTING CIRCULAR EDGES OF BRICK PAVERS IS TO BE DONE WITH CONCRETE HOLE SAW WHICH PRODUCES SHARP CIRCULAR EDGE.

EXPANSION JOINTS ARE TO BE PROVIDED WHERE BRICK PAVERS BUTT UP AGAINST CURB, CATCH BASIN, MANHOLE, UTILITY VALVE OR ANY OTHER TYPE OF STRUCTURE OR UTILITY APPURTENANCE LOCATED WITHIN AREA TO BE RESTORED. PLACE $\frac{1}{2}$ INCH THICK PREMOULDED EXPANSION JOINT MATERIAL BETWEEN BRICK PAVER AND STRUCTURE/UTILITY APPURTENANCE. TOP OF PREMOULDED EXPANSION JOINT MATERIAL IS TO BE RECESSED $\frac{5}{8}$ INCH BELOW TOP OF BRICK PAVER, WITH RECESSED AREA FILLED IN WITH CAULKING SEALANT. ALL OUTER EDGES OF EXISTING BRICK PAVEMENT AREA TO BE RESTORED, ARE TO BE SAW CUT BEFORE BEING EXCAVATED. SAW CUTS ARE TO BE FULL DEPTH THRU EXISTING CONCRETE FOUNDATION, AND ARE TO BE MADE BY USING CONCRETE SAW.

B.) BRICK PAVER REMOVAL:

USE EXTRA CAUTION WHEN REMOVING AND HANDLING EXISTING BRICK PAVERS THAT ARE TO BE SALVAGED FOR REUSE, AND WHEN WORKING ADJACENT TO BRICK PAVEMENT AREAS THAT ARE TO REMAIN, SO THAT BREAKAGE OR DAMAGE CAUSED BY CONTRACTOR'S ONGOING OPERATIONS IS KEPT TO ABSOLUTE MINIMAL AMOUNT AS POSSIBLE. EXISTING BRICK PAVERS THAT ARE DESIGNATED FOR REUSE, AND ARE SUBSEQUENTLY DAMAGED DUE TO CONTRACTOR'S OPERATIONS, ARE TO BE REPLACED WITH NEW REPLACEMENT BRICK PAVERS.

PROJECT ENGINEER AND CONTRACTOR WILL PRE-DETERMINE WHICH EXISTING BRICK PAVERS ARE STRUCTURALLY ACCEPTABLE FOR REUSE. CAREFULLY EXCAVATE AROUND AND REMOVE EXISTING BRICK PAVERS SUCH THAT OVERALL STRUCTURAL INTEGRITY OF BRICK PAVER IS NOT COMPROMISED. CLEAN REMOVED BRICK PAVERS OF ALL EXTRANEIOUS MATERIALS, INCLUDING CONCRETE, IN SUCH MANNER AS TO BE NON-DELETERIOUS TO BRICK PAVER.

CAUTION IS TO BE TAKEN IN REMOVING EXISTING BRICK TO MINIMIZE ANY BREAKAGE. BRICK IS TO BE CLEANED OF ALL FOREIGN OR EXTRANEIOUS MATTER. REMOVAL AND CLEANING OF BRICK IS TO BE DONE SUCH THAT OVERALL STRUCTURAL INTEGRITY OF BRICK IS MAINTAINED. EXISTING BRICK PAVERS THAT ARE BROKEN DURING EXCAVATION, OR CLEANING OPERATIONS, ARE TO BE PROPERLY DISPOSED OF.

AFTER REMOVING EXISTING BRICK PAVERS, EXISTING SETTING BED MATERIAL IS TO BE REMOVED.

BRICK PAVEMENT RESTORATION:**A.) GENERAL**

BRICK PAVEMENT RESTORATION AREA IS TO BE IN ACCORDANCE WITH EXISTING PATTERN, JOINTS, GRADE, AND CROWN SO AS TO BLEND IN WITH ADJACENT EXISTING BRICK PAVEMENT AREAS, AND TO PROVIDE UNIFORMLY EVEN SURFACE.

THE CONTRACTOR SHALL MAKE A VISUAL (PICTURE) RECORD OF THE EXISTING LAYOUT AND PATTERN PRIOR TO THE REMOVAL OF THE EXISTING BRICK PAVERS TO ENSURE THE REMOVED PAVERS CAN BE REPLACED TO MATCH EXISTING LAYOUT AND PATTERN PRIOR TO REMOVAL.

BRICK PAVEMENT IS TO BE RESTORED USING COMBINATION OF EXISTING AND NEW REPLACEMENT BRICK PAVERS. EXISTING BRICK PAVERS ARE THOSE THAT ARE EITHER EXCAVATED FROM PROJECT SITE, OR SALVAGED AND IMPORTED FROM OTHER LOCATIONS. IF EXISTING BRICK PAVERS ARE IMPORTED FROM ANOTHER LOCATION, IMPORTED BRICK PAVERS MUST CONFORM IN SIZE AND COLOR TO EXISTING BRICK PAVEMENT AREA BEING RESTORED.

REUSE ONLY EXISTING BRICK PAVERS THAT ARE IN GOOD CONDITION, SOLID, WITHOUT BEING CRACKED, CHIPPED, OR SHOW ANY OTHER FORMS OF DETERIORATION, AND THAT ARE APPROVED FOR REUSE BY PROJECT MANAGER.

BEFORE EXISTING BRICK PAVERS ARE RESET, EXISTING BRICK PAVERS ARE TO BE REDRESSED AND CLEANED TO OBTAIN SMOOTH SURFACE AND TO PROVIDE FOR GOOD FIT WITH ADJACENT BRICK PAVERS WHERE THEY ARE BEING INSTALLED.

BRICK PAVEMENT SECTION IS TO BE AS DETAILED IN CONTRACT DOCUMENTS. BEFORE CONSTRUCTING BRICK PAVEMENT SECTION, SURFACE OF UNDERLYING SUBBASE MATERIAL SHOULD BE THOROUGHLY CLEAN AND DRY, AND ANY ISOLATED HIGH AND LOW SPOTS CORRECTED BEFORE PLACEMENT OF SUBBASE COURSE MATERIAL.

BRICK PAVERS ARE TO BE LAID ON SETTING BED OF COARSE SAND WHICH HAS BEEN THOROUGHLY COMPACTED TO NOMINAL THICKNESS OF 1 INCH AFTER COMPACTION. SCREED RAILS SHOULD BE SET ON SURFACE OF SETTING BED MATERIAL TO PROPER LINE AND LEVEL. AN ALLOWANCE SHOULD BE MADE IN OVERALL THICKNESS OF SETTING BED MATERIAL FOR COMPACTION DURING BRICK PAVER INSTALLATION. OVERALL PLACEMENT THICKNESS OF SETTING BED MATERIAL SHOULD BE ESTABLISHED SO THAT AFTER BRICK PAVERS HAVE BEEN COMPACTED, TOP SURFACE OF BRICK PAVERS WILL BE MAXIMUM OF $\frac{1}{8}$ INCH ABOVE FINISHED GRADE TO ALLOW FOR LIMITED IN-SERVICE SETTLEMENT.

TO PREVENT DISTURBANCE, SETTING BED MATERIAL SHOULD NOT BE SPREAD TOO FAR AHEAD OF BRICK PAVER LAYING FACE. VOIDS LEFT AFTER REMOVING SCREED RAILS SHOULD BE FILLED. PROTECT SCREDED SETTING BED MATERIAL FROM WIND OR RAIN AS WELL AS BY WAYWARD CONSTRUCTION OPERATIONS. IF SETTING BED MATERIAL IS DISTURBED, IT IS TO BE LOOSENEED AND RESCREDED. EXTENSIVE AREAS OF SCREDED SETTING BED MATERIAL SHOULD NOT BE LEFT EXPOSED OVERNIGHT UNLESS THEY ARE PROPERLY PROTECTED FROM DISTURBANCE AND MOISTURE. MOISTURE CONTENT OF SETTING BED MATERIAL SHOULD BE KEPT AS UNIFORM AS POSSIBLE TO MINIMIZE UNDULATIONS IN BRICK PAVER SURFACE, AND SHOULD BE KEPT IN DAMP CONDITION CONDUCIVE TO PACKING. WATER SHOULD NOT BE

APPLIED EXCEPT BY VERY LIGHT MISTING. STOCKPILED SETTING BED MATERIAL IS TO BE COVERED TO PROTECT IT FROM WIND AND RAIN.

BRICK PAVERS ARE TO BE PLACED BY HAND ON SETTING BED MATERIAL, IN REQUIRED PATTERN, WITH STRAIGHT COURSES. BRICK PAVERS SHOULD BE TAMPED DOWN AND LEVELED WITH MECHANICAL VIBRATOR. AFTER COMPACTION, TOP OF BRICK PAVERS ARE TO BE MAXIMUM $\frac{1}{8}$ INCH ABOVE FINISHED GRADE, TRUE TO SURROUNDING CROSS-SLOPE AND GRADE, AND FREE OF ANY MOVEMENT.

JOINTS BETWEEN BRICK PAVERS ARE TO BE BETWEEN $\frac{1}{16}$ AND $\frac{3}{16}$ OF AN INCH, WITH NO JOINT WIDTH TO EXCEED $\frac{3}{16}$ OF AN INCH. JOINTS ARE TO BE FILLED WITH POLYMERIC JOINTING SAND OR MORTAR, TO WITHIN $\frac{1}{8}$ INCH OF BRICK PAVER SURFACE AFTER COMPACTION.

B.) JOINTS - POLYMERIC JOINTING SAND

BEFORE APPLYING POLYMERIC JOINTING SAND MATERIAL, SURFACE OF BRICK PAVERS MUST BE COMPLETELY DRY AS MOISTURE WILL ACTIVATE BINDER AGENT OF POLYMERIC JOINTING SAND.

COVER BRICK PAVEMENT RESTORATION AREA WITH POLYMERIC JOINTING SAND, THEN SWEEP POLYMERIC JOINTING SAND OVER AND INTO ALL JOINTS UNTIL JOINTS ARE OVERFILLED. SWEEP ENTIRE SURFACE CLEAN REMOVING ALL EXCESS POLYMERIC JOINTING SAND MATERIAL AS SOON AS POSSIBLE SO POLYMERIC JOINTING SAND DOES NOT GET STUCK IN SURFACE TEXTURE OF BRICK PAVERS. COMPACT OVERALL AREA, REPEATING PROCESS UNTIL JOINTS ARE FILLED SOLID WITH POLYMERIC JOINTING SAND. LIGHTLY MOISTEN POLYMERIC JOINTING SAND MATERIAL WITH WATER SEVERAL TIMES AT 5 TO 10 MINUTE INTERVALS GRADUALLY MOISTENING ENTIRE DEPTH OF JOINT.

BASIS OF PAYMENT:

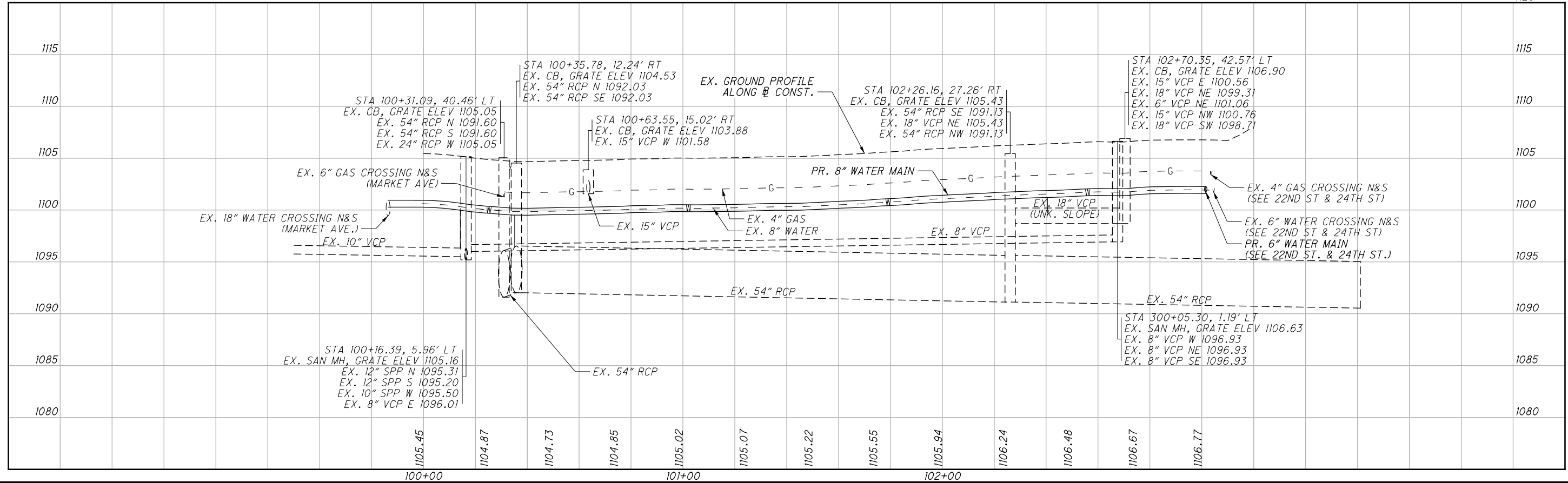
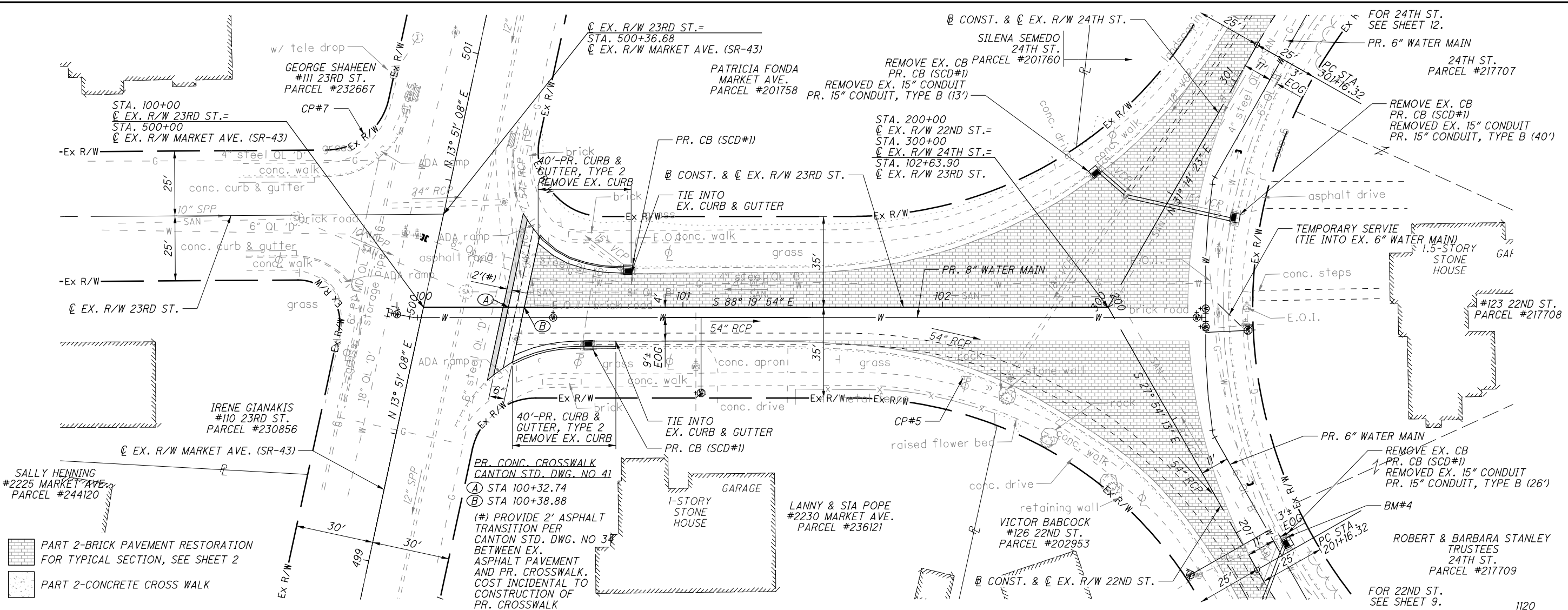
UNIT PRICE BID INCLUDES COST OF: STORING AND PROTECTING EXISTING AND REPLACEMENT BRICK PAVERS; EXCAVATING, REMOVING, REDRESSING, CLEANING AND RESETTING EXISTING BRICK PAVERS; REDRESSING, CLEANING AND SETTING EXISTING BRICK PAVERS SALVAGED AND IMPORTED FROM OTHER LOCATIONS; CLEANING AND INSTALLING REPLACEMENT BRICK PAVERS; CUTTING BRICK PAVERS; EXPANSION JOINTS; PREMOULDED EXPANSION JOINT MATERIAL; CAULKING SEALANT; EXCAVATION INCLUDING HAND EXCAVATION; PAVEMENT SAW CUTTING; COARSE SAND SETTING BED; FILLING JOINTS WITH POLYMERIC JOINTING SAND OR MORTAR MIXTURE; WATER; ACID WASH; PROTECTION OF WORK FROM DAMAGE, VANDALISM, THEFT OR OTHER MISHAP; AND FURNISHING ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE WORK.

UNIT PRICE BID INCLUDES COST OF: FURNISHING AND DELIVERING NEW REPLACEMENT BRICK PAVERS;

UNIT PRICE BID INCLUDES COST OF: EXCAVATING, REMOVING AND DELIVERING EXISTING BRICK PAVERS FROM OTHER LOCATIONS;

PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF BRICK PAVEMENT RESTORATION.

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP100-R.dgn 6/21/2018 9:45:13 AM william.croxton" ODOTV8i_PDF_Hoif.plt:cfig ODOTV8i_Pen-ME.tbl IBI Group



PLAN AND PROFILE - 23RD ST. - STA. 100+00 TO STA. 102+63.90

RIDGEWOOD EAST PH.1
PART 2: ROADWAY

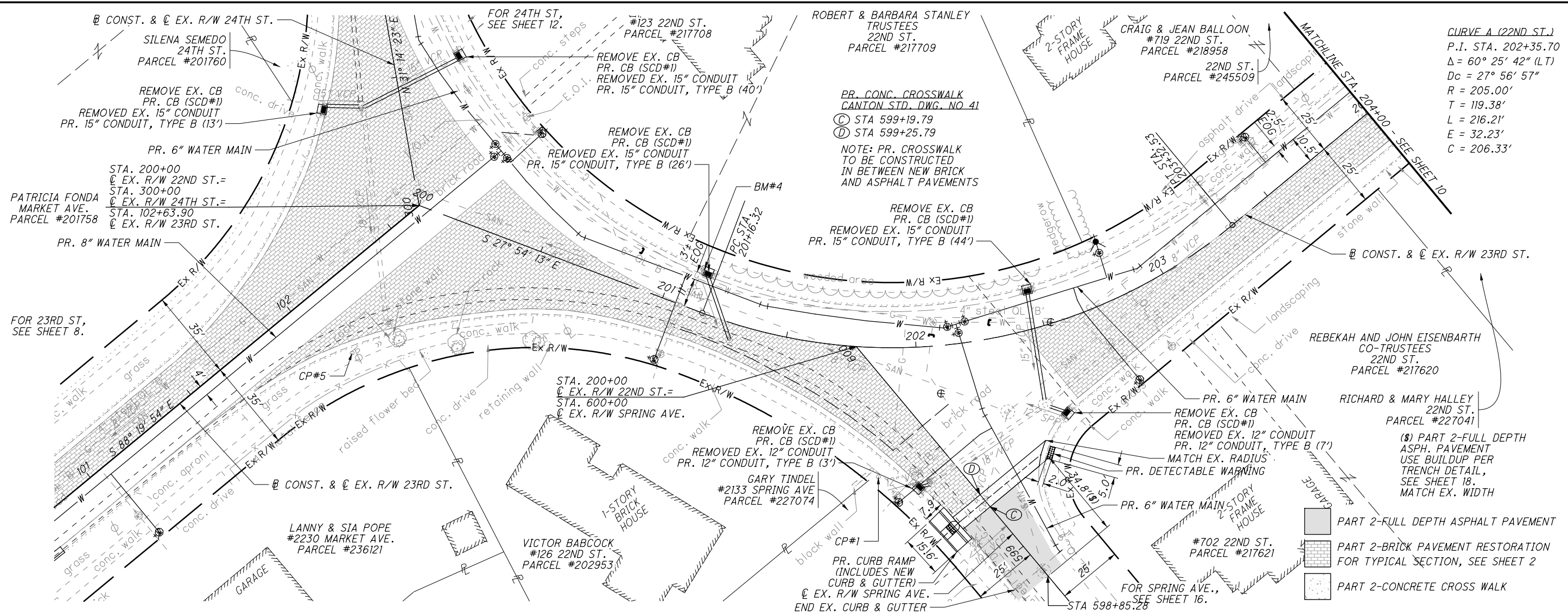
8
21

0 10 20
HORIZONTAL
SCALE IN FEET

0 10 20
VERTICAL
SCALE IN FEET

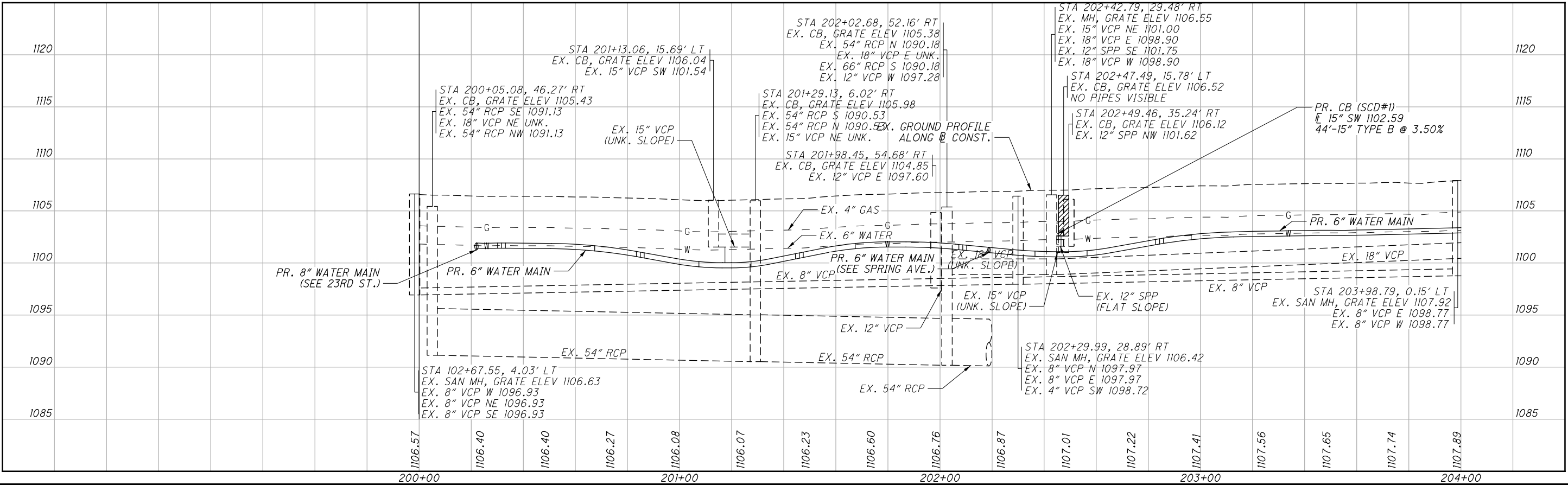
CALCULATED WLC
CHECKED RMH

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP200-R.dgn 6/21/2018 9:45:14 AM william.croxtan" ODOTV81_PDF_Half.plt\cfig ODOTV81_Pen-ME.tbl IBI Group



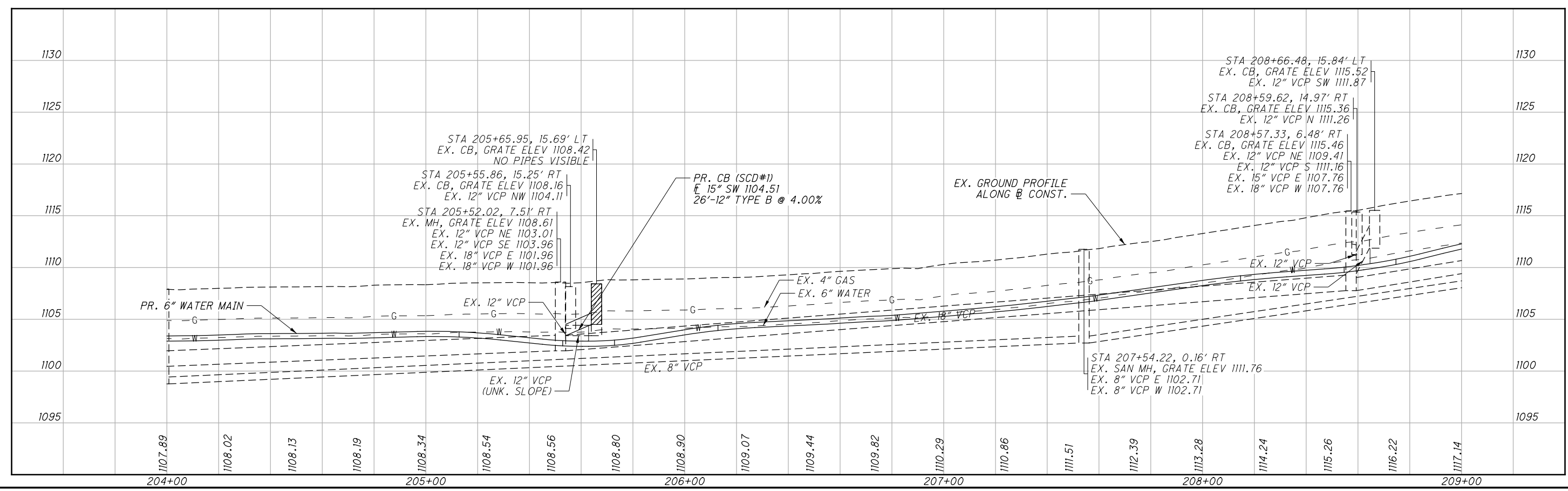
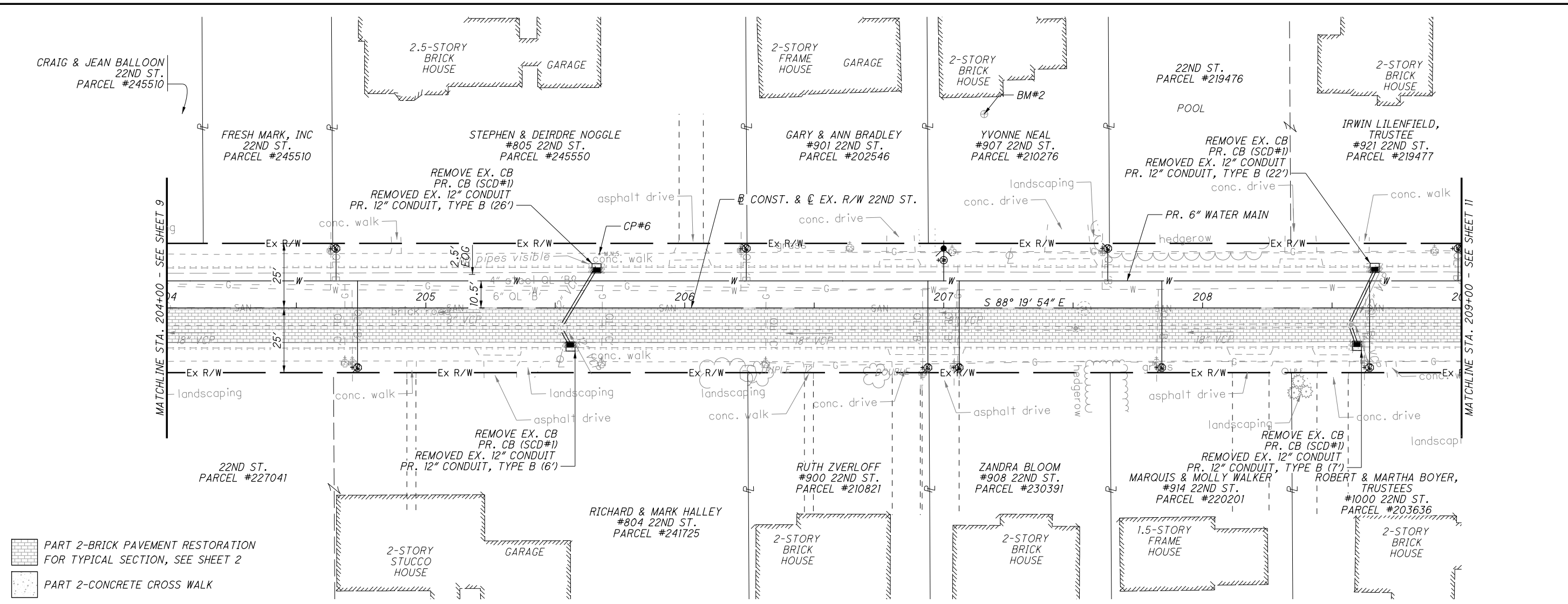
CURVE A (22ND ST.)
 P.I. STA. 202+35.70
 $\Delta = 60^\circ 25' 42''$ (LT)
 $D_c = 27^\circ 56' 57''$
 $R = 205.00'$
 $L = 119.38'$
 $T = 216.21'$
 $E = 32.23'$
 $C = 206.33'$

- PART 2-FULL DEPTH ASPHALT PAVEMENT
- PART 2-BRICK PAVEMENT RESTORATION FOR TYPICAL SECTION, SEE SHEET 2
- PART 2-CONCRETE CROSS WALK



RIDGEWOOD EAST PH.1
 PART 2: ROADWAY
 PLAN AND PROFILE - 22ND ST.
 STA. 200+00 TO STA. 204+00
 9
 21

J:\16-128_RidgeWood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP201-R.dgn 6/21/2018 9:45:15 AM william.croxton" ODOTV8i_PDF_Half.plt cfig ODOTV8i_Pen-ME.tbi IBI Group



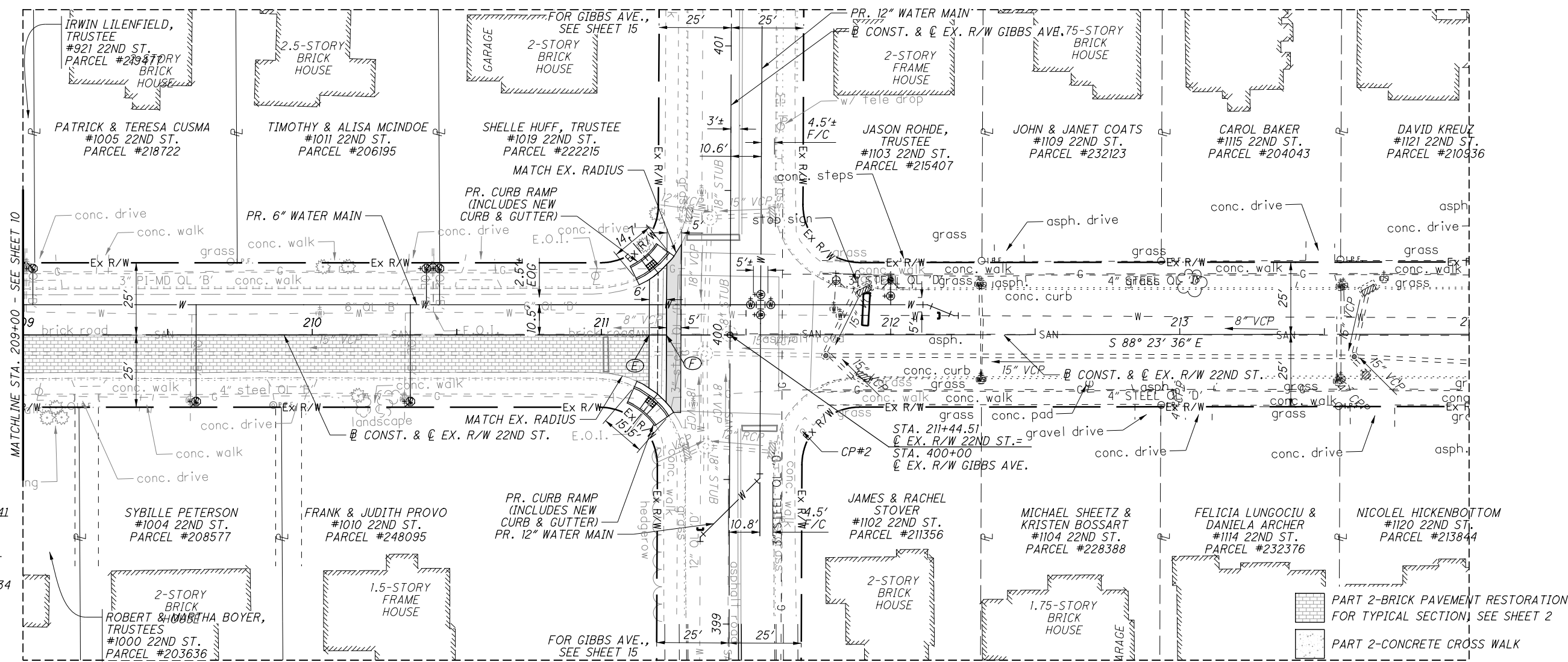
PART 2-BRICK PAVEMENT RESTORATION FOR TYPICAL SECTION, SEE SHEET 2
 PART 2-CONCRETE CROSS WALK



PLAN AND PROFILE - 22ND ST.
STA. 204+00 TO STA. 209+00

RIDGEWOOD EAST PH.1
PART 2: ROADWAY

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP202-R.dgn 6/21/2018 9:45:16 AM william.croxtan" ODOTV81_PDF_Half.plt cfig ODOTV81_Pen-ME.tbl IBI Group

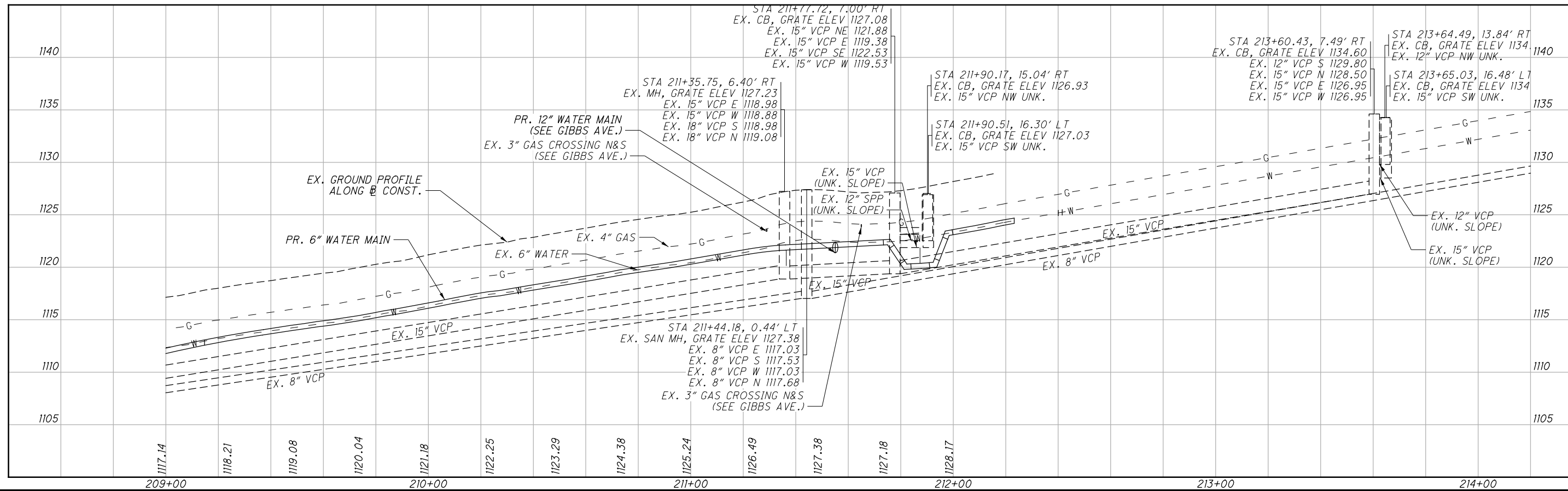


PR. CONC. CROSSWALK
CANTON STD. DWG. NO 41

Ⓔ STA 211+16.51
Ⓕ STA 211+22.51

(#) PROVIDE 5' ASPHALT
TRANSITION PER
CANTON STD. DWG. NO 34
BETWEEN EX.
ASPHALT PAVEMENT
AND PR. CROSSWALK.
COST INCIDENTAL TO
CONSTRUCTION OF
PR. CROSSWALK

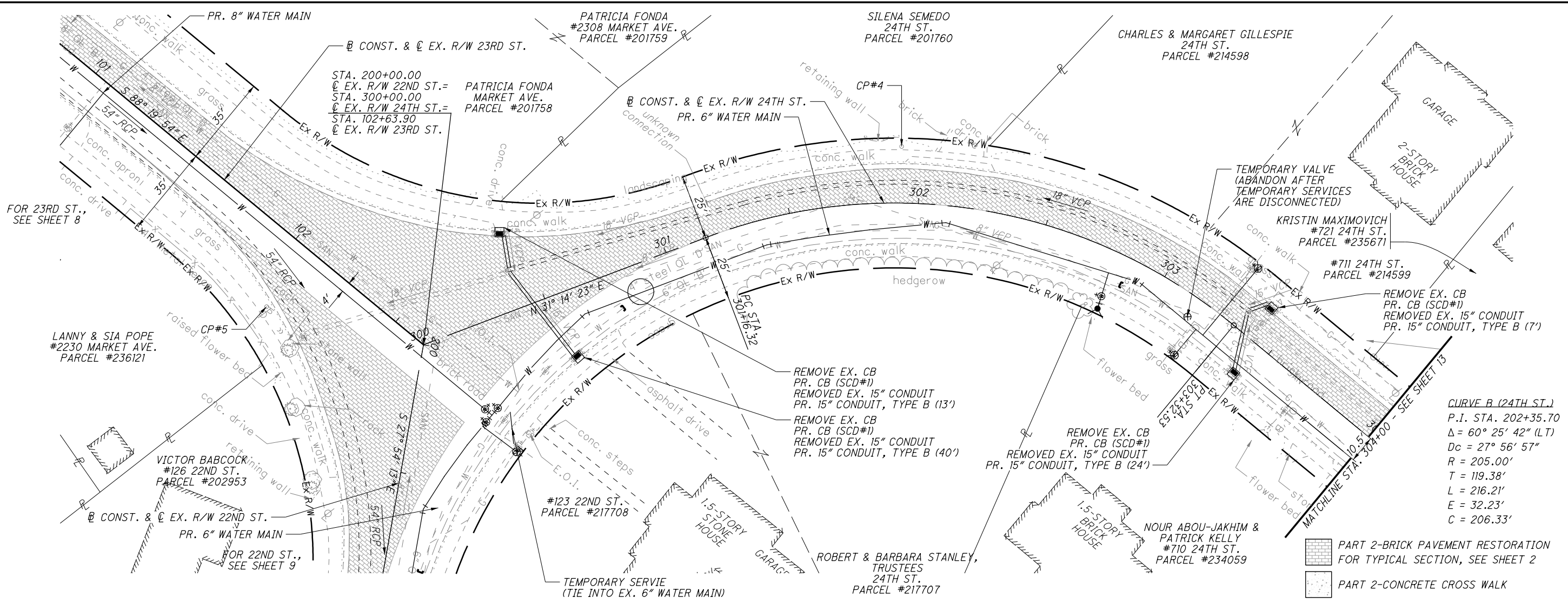
■ PART 2-BRICK PAVEMENT RESTORATION
FOR TYPICAL SECTION) SEE SHEET 2
■ PART 2-CONCRETE CROSS WALK



RIDGEWOOD EAST PH.1
 PART 2: ROADWAY
 PLAN AND PROFILE - 22ND ST.
 STA. 209+00 TO STA. 214+00

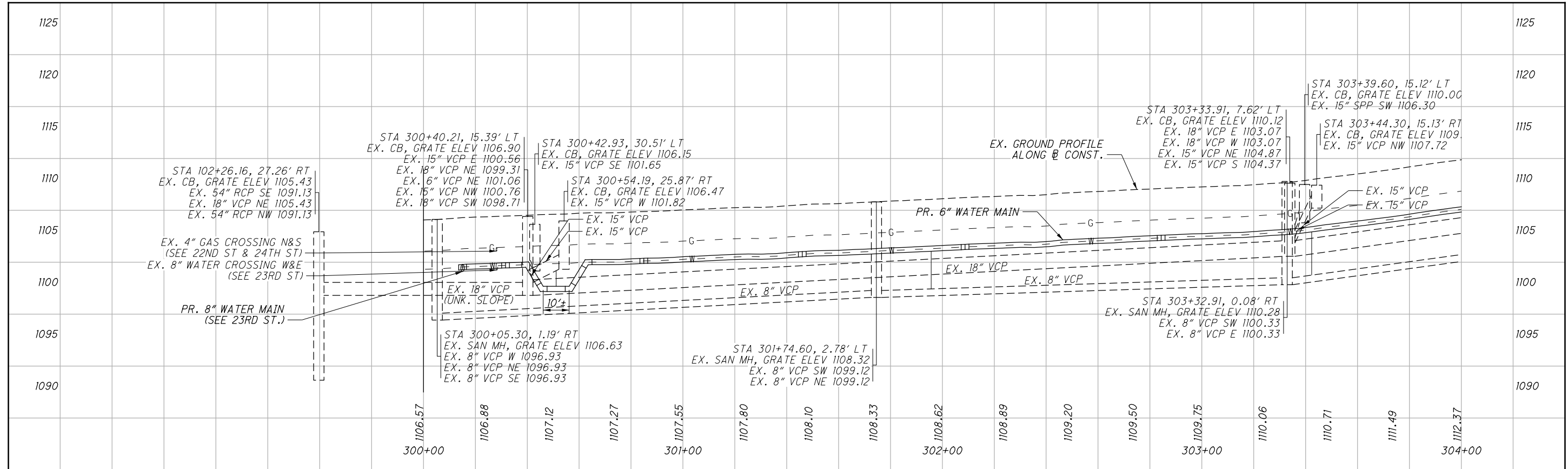
11
21

J:\16-128_RidgeWood EA\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP300-R.dgn 6/21/2018 9:45:21 AM william.croxton\ODOTV81_PDF_Half.plt\cfig ODOTV81_Pen-ME.tbl IBI Group



CURVE B (24TH ST.)
 P.I. STA. 202+35.70
 $\Delta = 60^\circ 25' 42''$ (LT)
 $R = 205.00'$
 $T = 119.38'$
 $L = 216.21'$
 $E = 32.23'$
 $C = 206.33'$

- PART 2-BRICK PAVEMENT RESTORATION FOR TYPICAL SECTION, SEE SHEET 2
- PART 2-CONCRETE CROSS WALK



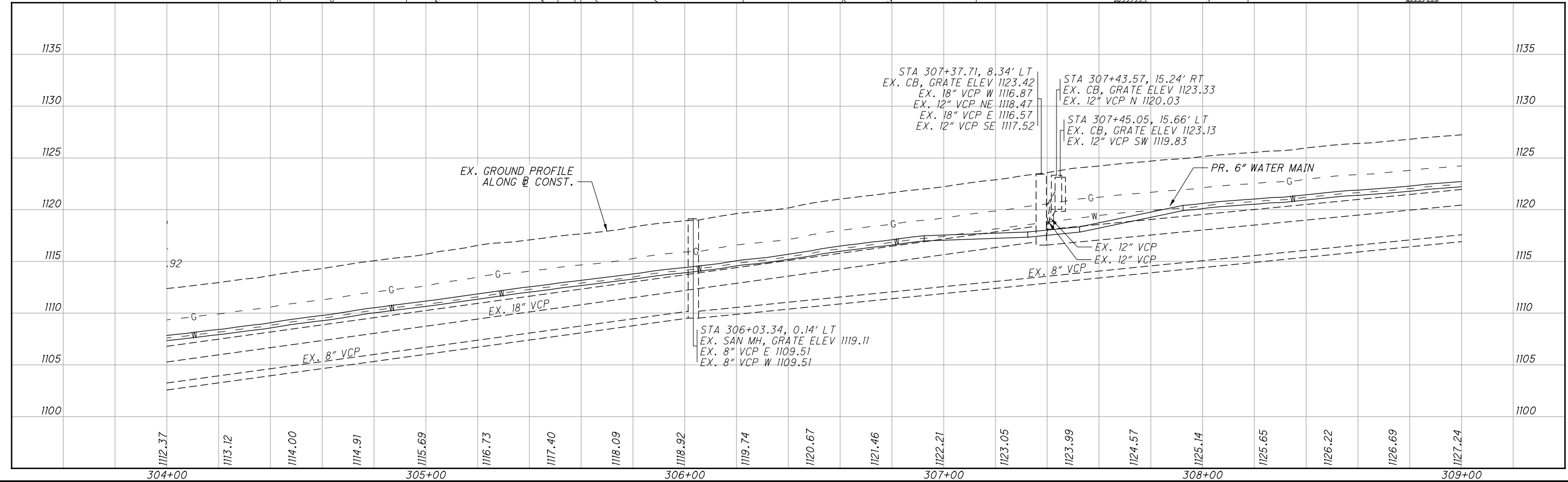
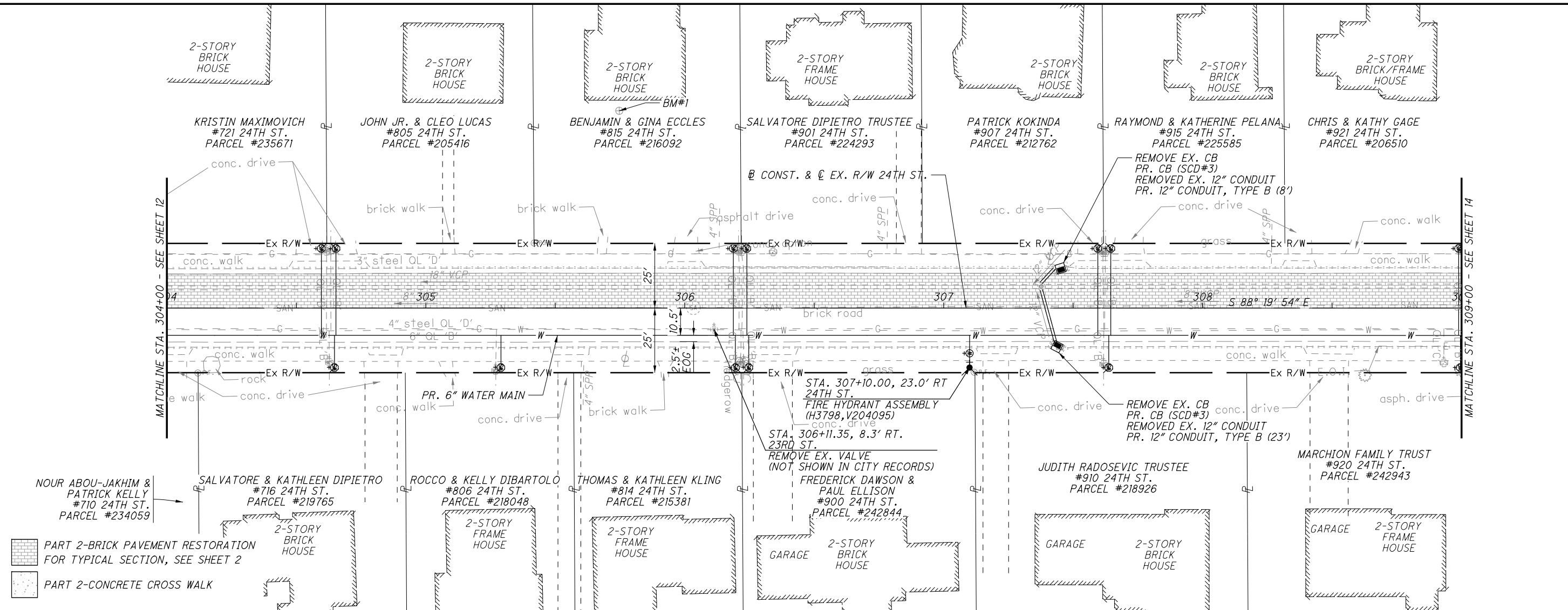
CALCULATED WLC
 CHECKED RMH

PLAN AND PROFILE - 24TH ST.
STA. 300+00 TO STA. 304+00

RIDGEWOOD EAST PH.1
PART 2: ROADWAY

12
21

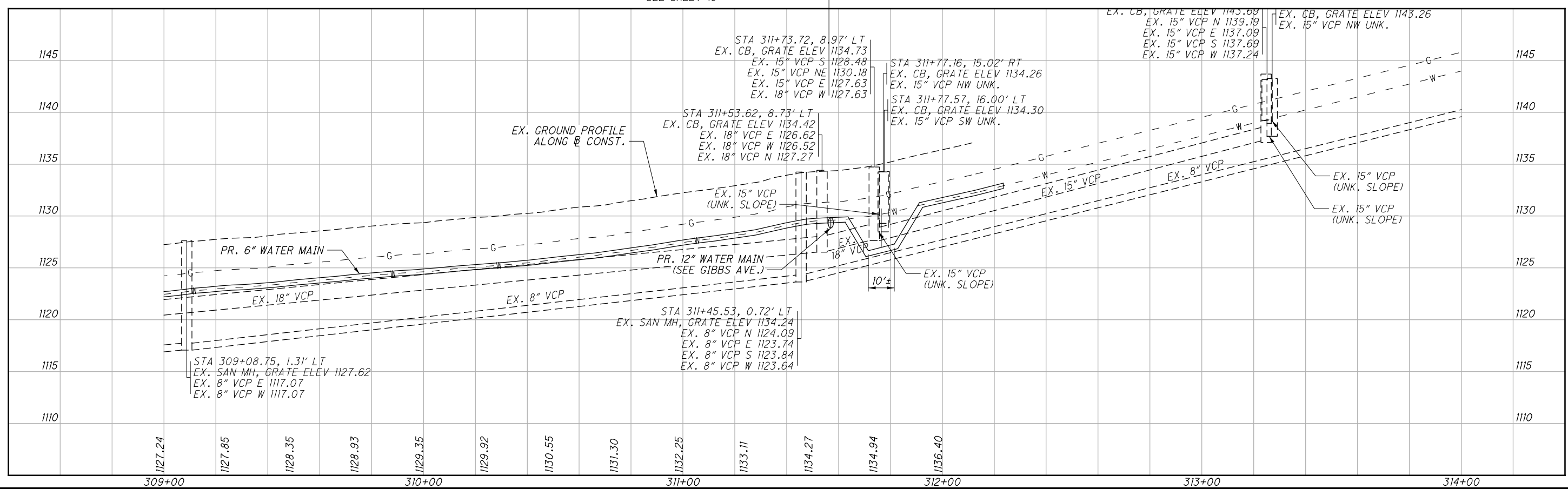
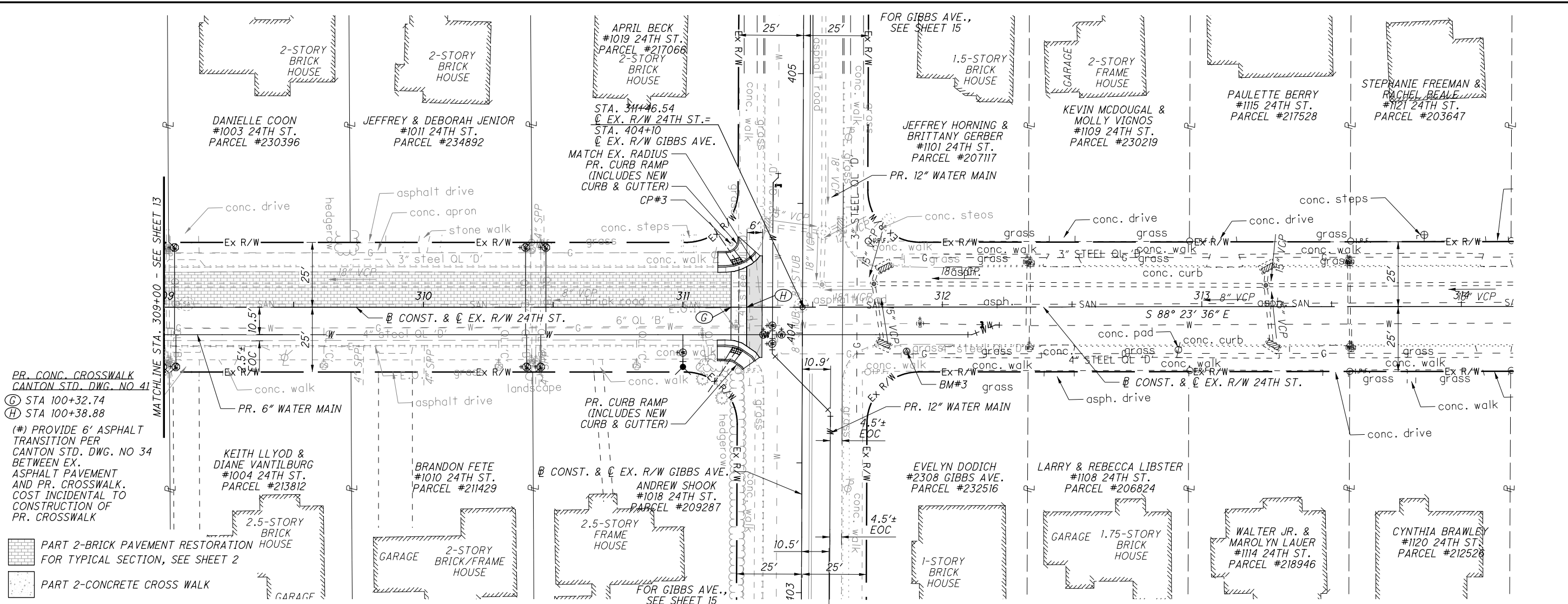
J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP301-R.dgn 6/21/2018 9:45:22 AM william.croxtan ODOTV81_PDF_Half.pltcfgr ODOTV81_Pen-ME.tbl IBI Group



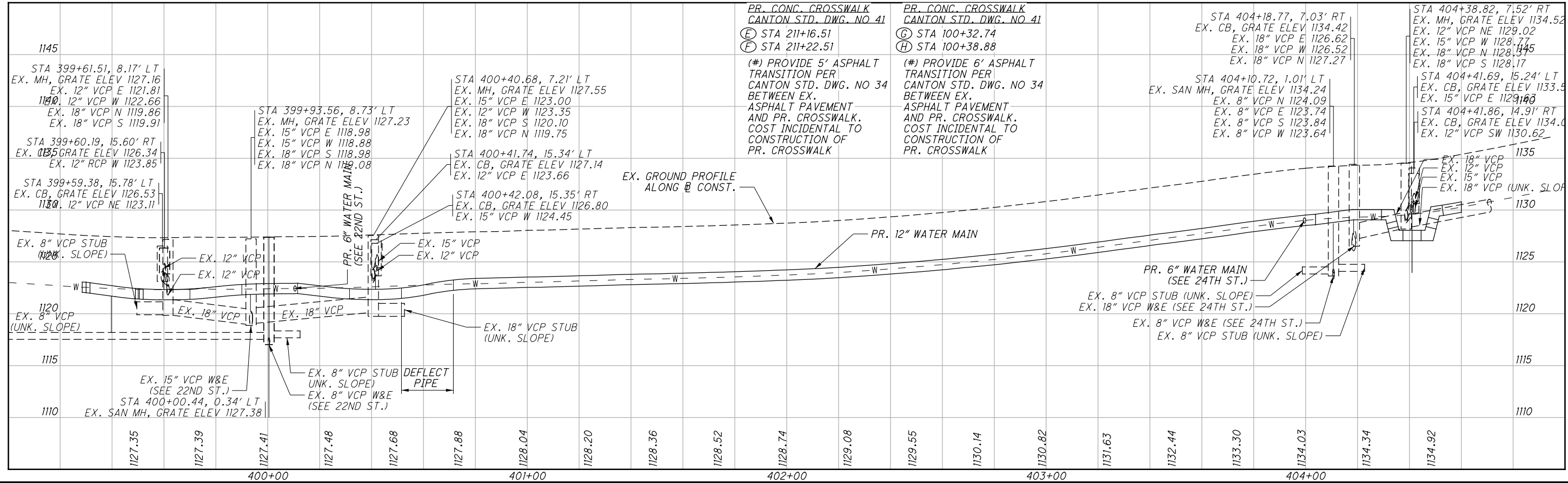
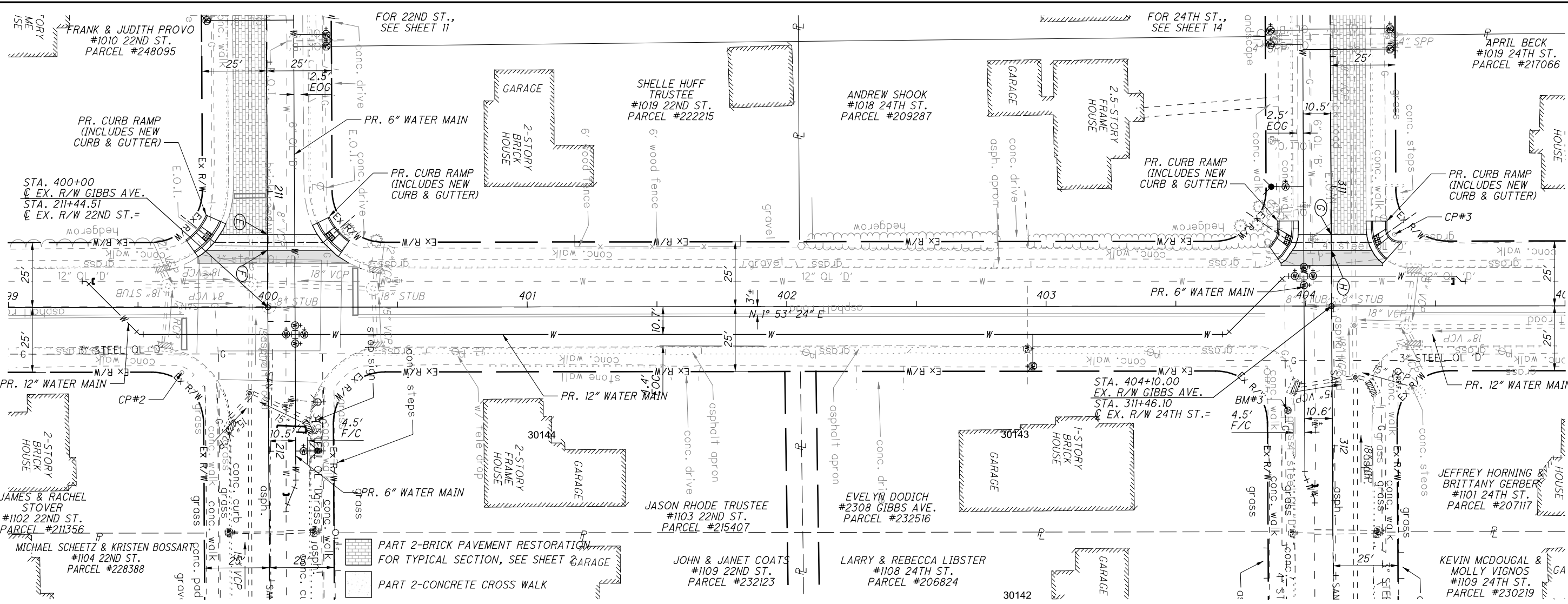
PLAN AND PROFILE - 24TH ST.
STA. 304+00 TO STA. 309+00

RIDGEWOOD EAST PH.1
PART 2: ROADWAY

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP302-R.dgn 6/21/2018 9:45:22 AM william.croxton\ODOTV81_PDF_Half.pltcf OD0TV81_Pen-ME.tbl IBI Group



J:\16-128_Ridgewood EA\5.0 Design (Work) Phase\STA\16128\roadway_sheets\16128GP400-R.dgn 6/21/2018 9:45:23 AM william.croxton" ODOTV81_PDF_Half_plt.ctb ODOTV81_Pen-ME.tbl IBI Group



PLAN AND PROFILE - GIBBS AVE.

STA. 399+00 TO STA. 405+00

RIDGEWOOD EAST PH.1

PART 2: ROADWAY

15
21

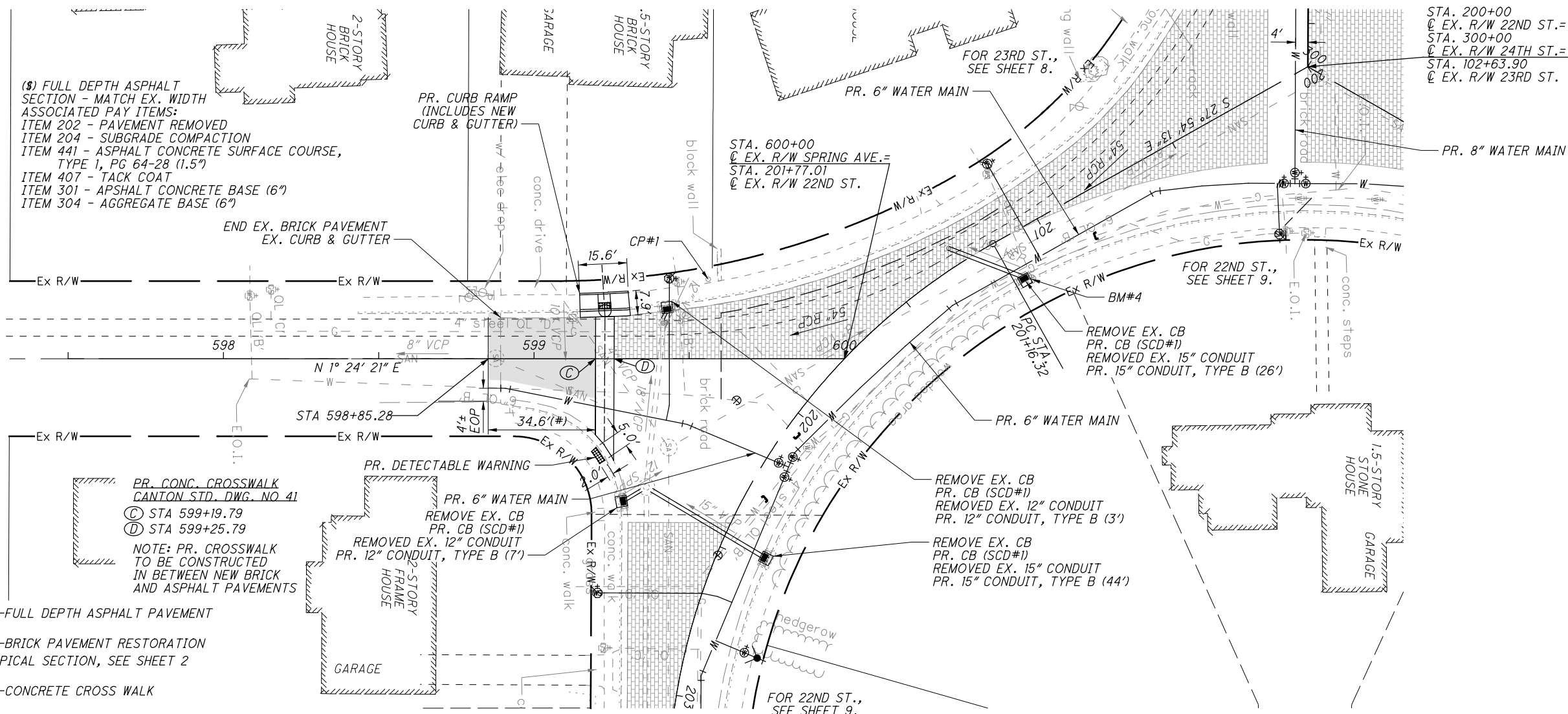
SCALE IN FEET

0 10 20

HORIZONTAL

15
21

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GP500-R.dgn 6/21/2018 9:45:24 AM william.croxton" ODOTV81_PDF_Half.pltcfgr ODOTV81_Pen-ME.tbl IBI Group

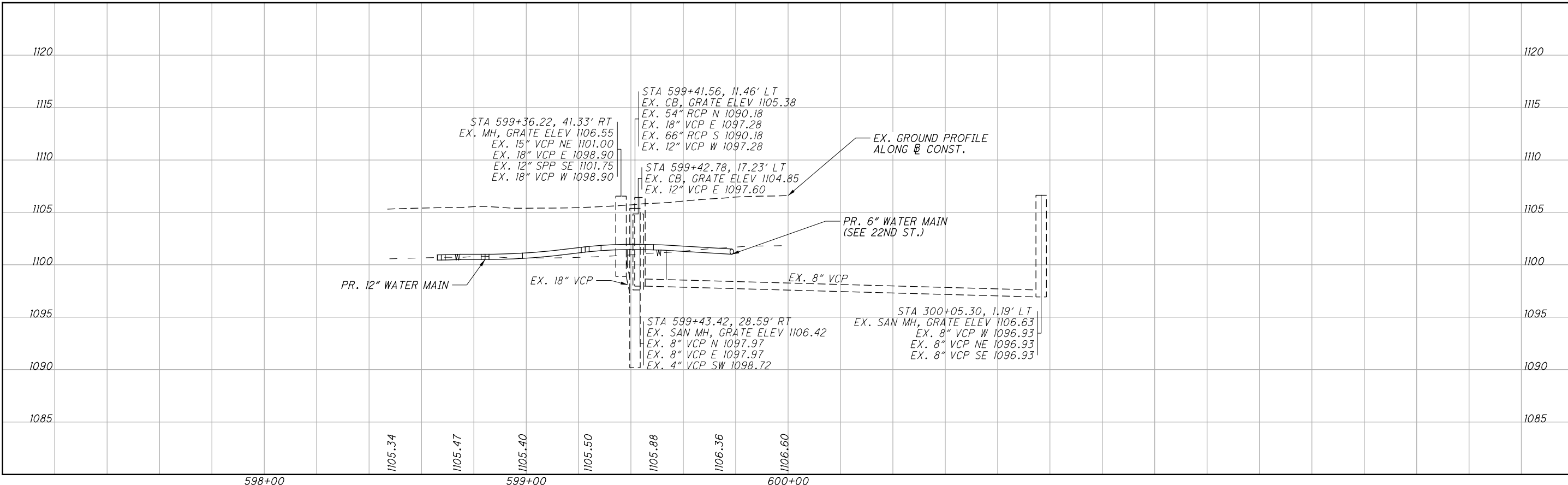


(S) FULL DEPTH ASPHALT SECTION - MATCH EX. WIDTH ASSOCIATED PAY ITEMS:
 ITEM 202 - PAVEMENT REMOVED
 ITEM 204 - SUBGRADE COMPACTION
 ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-28 (1.5")
 ITEM 407 - TACK COAT
 ITEM 301 - ASPHALT CONCRETE BASE (6")
 ITEM 304 - AGGREGATE BASE (6")

PR. CURB RAMP (INCLUDES NEW CURB & GUTTER)
 END EX. BRICK PAVEMENT
 EX. CURB & GUTTER

PR. CONC. CROSSWALK CANTON STD. DWG. NO. 41
 (C) STA 599+19.79
 (D) STA 599+25.79
 NOTE: PR. CROSSWALK TO BE CONSTRUCTED IN BETWEEN NEW BRICK AND ASPHALT PAVEMENTS

- PART 2-FULL DEPTH ASPHALT PAVEMENT
- PART 2-BRICK PAVEMENT RESTORATION FOR TYPICAL SECTION, SEE SHEET 2
- PART 2-CONCRETE CROSS WALK



STA. 200+00 @ EX. R/W 22ND ST.=
 STA. 300+00 @ EX. R/W 24TH ST.=
 STA. 102+63.90 @ EX. R/W 23RD ST.

STA. 600+00 @ EX. R/W SPRING AVE.=
 STA. 201+77.01 @ EX. R/W 22ND ST.

FOR 22ND ST., SEE SHEET 9.

REMOVE EX. CB
 PR. CB (SCD#1)
 REMOVED EX. 12" CONDUIT
 PR. 12" CONDUIT, TYPE B (3')

REMOVE EX. CB
 PR. CB (SCD#1)
 REMOVED EX. 15" CONDUIT
 PR. 15" CONDUIT, TYPE B (44')

STA 599+36.22, 41.33' RT
 EX. MH, GRATE ELEV 1106.55
 EX. 15" VCP NE 1101.00
 EX. 18" VCP E 1098.90
 EX. 12" SPP SE 1101.75
 EX. 18" VCP W 1098.90

STA 599+41.56, 11.46' LT
 EX. CB, GRATE ELEV 1105.38
 EX. 54" RCP N 1090.18
 EX. 18" VCP E 1097.28
 EX. 66" RCP S 1090.18
 EX. 12" VCP W 1097.28

STA 599+42.78, 17.23' LT
 EX. CB, GRATE ELEV 1104.85
 EX. 12" VCP E 1097.60

STA 599+43.42, 28.59' RT
 EX. SAN MH, GRATE ELEV 1106.42
 EX. 8" VCP N 1097.97
 EX. 8" VCP E 1097.97
 EX. 4" VCP SW 1098.72

STA 300+05.30, 1.19' LT
 EX. SAN MH, GRATE ELEV 1106.63
 EX. 8" VCP W 1096.93
 EX. 8" VCP NE 1096.93
 EX. 8" VCP SE 1096.93

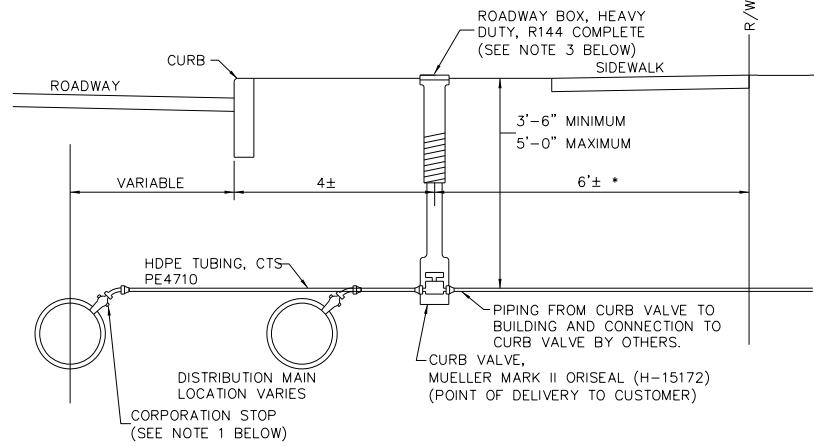


CALCULATED WLC CHECKED RMH

PLAN AND PROFILE - SPRING AVE.
 STA. 597+50 TO STA. 600+00

RIDGEWOOD EAST PH.1
 PART 2: ROADWAY

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GM001-R.dgn 6/21/2018 9:45:25 AM william.croxtson ODOTV8i_PDF_Half.plt c:\g\ib\ Group ODOTV8i_PDF_Half.plt c:\g\ib\ Group ODOTV8i_PDF_Half.plt



NOTES:

1.) CORPORATION STOP AND ASSEMBLY SHALL BE AS FOLLOWS:

1" CORP. STOP ON DIP: INSTALL AT A 45° ANGLE, A MUELLER H-15000 CORPORATION STOP WITH A MUELLER H-15075 ELBOW.

1" CORP. STOP ON PVC C909: INSTALL AT A 45° ANGLE, A MUELLER H-15000 CORPORATION STOP WITH A MUELLER H-15075 ELBOW AND A FORD, STAINLESS STEEL, EPOXY COATED TAPPING SADDLE (FC202 STYLE).

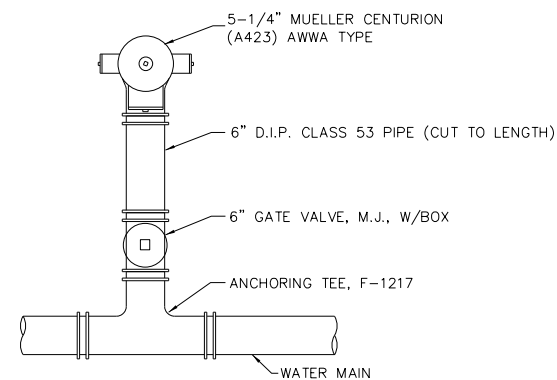
1 1/2" OR 2" CORP. STOP: INSTALL AT A 45° ANGLE, A MUELLER H-10003 CORPORATION STOP WITH 2" IRON TOP, A STANDARD NO LEAD BRASS 45° ELBOW AND A MUELLER H-15428 COMPRESSION MALE WITH INSERT COUPLING. ASSEMBLY SHALL ALSO CONSIST OF A FORD, STAINLESS STEEL, EPOXY COATED TAPPING SADDLE (FC202 STYLE).

2.) A SERVICE CLAMP MUST BE USED WHEN THE MAIN SIZE IS 2 INCH OR SMALLER.

3.) HEAVY DUTY VALVE BOXES, COMPLETE, MUST BE USED IN PLACE OF ROADWAY BOXES WHEN LOCATED IN ROADWAYS OR ASPHALT DRIVES.

4.) APPROVED EQUALS MAY BE USED IN PLACE OF SPECIFIED ITEMS.

TYPICAL WATER SERVICE (C94)



HYDRANT SETTINGS CONSIST OF HYDRANT, VALVE, VALVE BOX, FITTINGS AND MATERIALS SHOWN OR SPECIFIED WHICH ARE NEEDED FOR PROPER INSTALLATION.

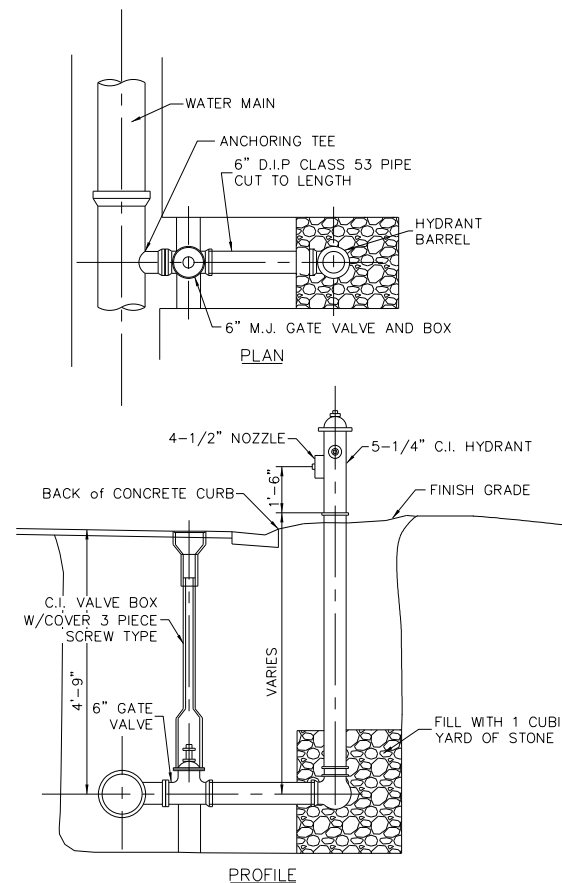
SEE SPECIFICATIONS FOR MORE INFORMATION ABOUT MATERIALS, SETTING HYDRANTS AND DRAINAGE REQUIREMENTS.

IF RESTRAINED JOINT FITTINGS CANNOT BE USED, (2) TIE RODS AND (4) EYE BOLTS WITH NUTS AND WASHERS MUST BE USED.

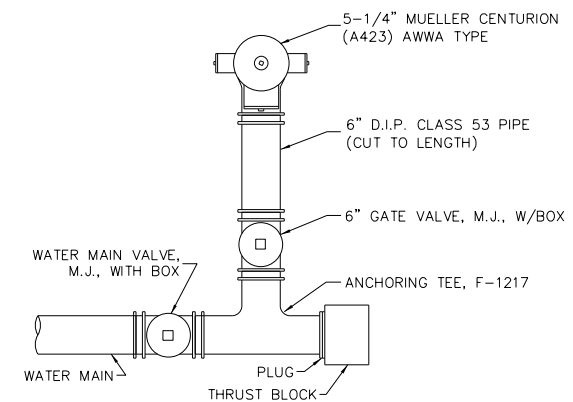
FIGURES SUCH AS F-1217 INDICATE CLOW CORPORATION STYLES. USE THIS BRAND OR APPROVED EQUAL.

ALL HYDRANTS ARE TO BE INSTALLED WITH THE PUMPER NOZZLE FACING THE STREET.

HYDRANT CONNECTION (C70)



HYDRANT SETTING (C71)



THRUST AT FITTINGS AT 100 PSI	
MAIN SIZE	TOTAL POUNDS
6	3,739
8	6,433
10	9,677
12	13,685
14	18,385
16	23,779
18	29,865
20	36,644
24	52,279

HYDRANT SETTINGS CONSIST OF HYDRANT, VALVE, VALVE BOX, FITTINGS AND MATERIALS SHOWN OR SPECIFIED WHICH ARE NEEDED FOR PROPER INSTALLATION.

SEE SPECIFICATIONS FOR MORE INFORMATION ABOUT MATERIALS, SETTING HYDRANTS AND DRAINAGE REQUIREMENTS.

IF RESTRAINED JOINT FITTINGS CANNOT BE USED, (2) TIE RODS AND (4) EYE BOLTS WITH NUTS AND WASHERS MUST BE USED.

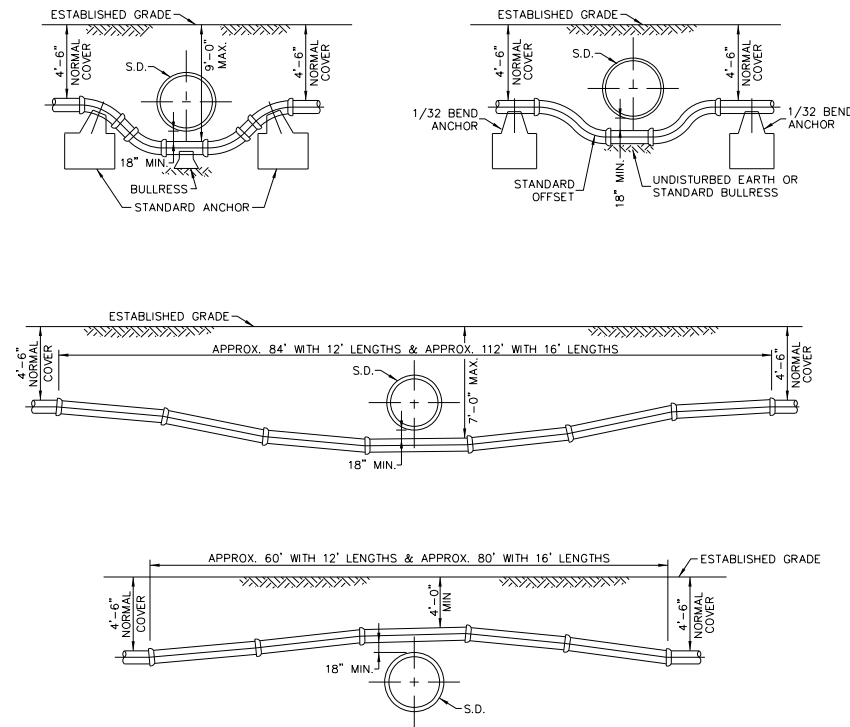
FIGURES SUCH AS F-1217 INDICATE CLOW CORPORATION STYLES. USE THIS BRAND OR APPROVED EQUAL.

ALL HYDRANTS ARE TO BE INSTALLED WITH THE PUMPER NOZZLE FACING THE STREET.

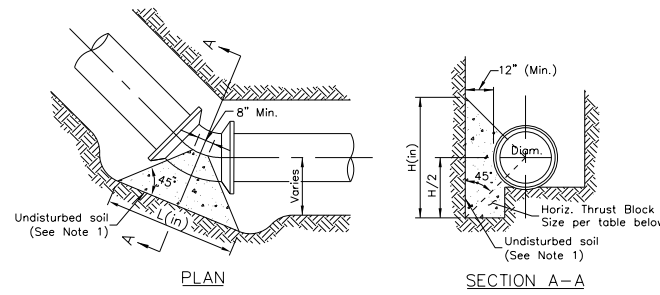
HYDRANT CONNECTION AT END OF MAIN (C383)

CALCULATED	WLC
CHECKED	RMH

J:\16-128_Ridgewood E\5.0 Design (Work) Phase\STA\16128\roadway\sheets\16128GM002-R.dgn 6/21/2018 9:45:25 AM william.croxton" ODOTV81_PDF_Half.pltcf ODOTV81_Pen-ME.tbl IBI Group



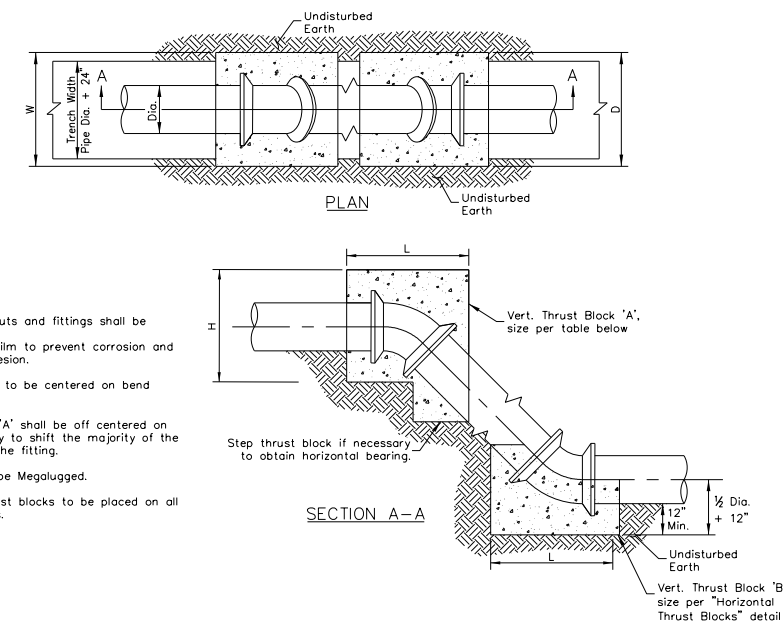
WATER MAIN CROSSING STORM DRAIN (C187)



- NOTES:
- Thrust blocks shall be placed against undisturbed soil. Where it is not possible, the fill between the bearing surface and undisturbed soil must be compacted to at least 90% Standard Proctor density.
 - Pipe, bolts, nuts and fittings shall be wrapped with polyethylene film to prevent corrosion and concrete adhesion.
 - All joints to be Megalugged.

SIZE OF PIPE	DEGREE OF BEND							
	11 1/4°		22 1/2°		45°		90°	
	L	H	L	H	L	H	L	H
6"	16	8	16	10	24	14	32	18
8"	16	10	21	14	31	18	44	24
12"	21	16	32	20	48	26	66	36
16"	29	20	42	28	66	34	90	46
20"	37	24	50	36	73	48	107	60
24"	46	28	64	40	93	54	128	72

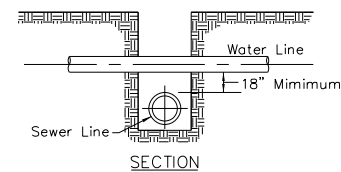
HORIZONTAL THRUST BLOCKS (C130)



- NOTES:
- Pipe, bolts, nuts and fittings shall be wrapped with polyethylene film to prevent corrosion and concrete adhesion.
- Thrust block 'A' shall be centered on bend horizontally.
- Thrust block 'A' shall be off centered on bend vertically to shift the majority of the block above the fitting.
- All joints to be Megalugged.
- Concrete thrust blocks to be placed on all vertical bends.

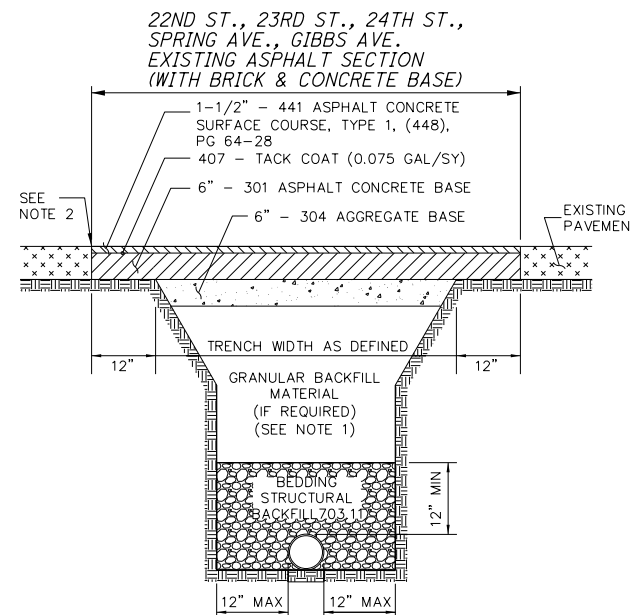
SIZE OF PIPE	DEGREE OF BEND											
	11 1/4°				22 1/2°				45°			
	L	W	H	V (cy)	L	W	H	V (cy)	L	W	H	V (cy)
6"	12	48	18	0.2	15	43	36	0.5	28	55	24	0.8
8"	12	63	24	0.4	18	57	34	0.7	36	57	33	1.4
12"	20	54	36	0.8	37	62	37	1.7	48	62	51	3.1
16"	31	65	38	1.6	55	65	39	3.0	65	65	65	5.6
20"	40	56	50	2.4	57	66	59	4.8	82	74	68	8.8
24"	48	60	60	3.5	67	72	66	6.9	91	91	72	12.7

CONCRETE THRUST BLOCKS FOR VERTICAL BENDS ON WATER MAINS (POURED IN PLACE, CLASS C) (C147)



- NOTES:
- If joint on water main is within limits of sewer trench, install mechanical bell joint clamp
 - If clearance is less than 18", encase sewer pipe 6 ft. each side of water main. Cost shall be included in the unit prices bid for all items in the proposal.
 - In no case shall the sewer pipe contact any water main, service line or appurtenance.

VERTICAL WATER MAIN CLEARANCE (C186)



- NOTES:
- CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION WITHIN THE RIGHT-OF-WAY REGARDING BACKFILL REQUIREMENTS.
 - SAW CUT EXISTING PAVEMENT, SEAL JOINT PER ODOT ITEM 423 - CRACK SEALING, TYPE IV. INCLUDE COST IN BID PRICE FOR THE PROPOSED PAVEMENT.
 - IF ADJACENT PAVEMENT IS DAMAGED OR UNDERMINED DURING CONSTRUCTION, ADDITIONAL PAVEMENT SHALL BE SAW CUT AND REMOVED IN ORDER TO PROVIDE A SOUND PAVEMENT EDGE.
 - IN THE EVENT THAT THE SAW CUT WOULD LIE WITHIN 3 FEET OF THE EDGE OF PAVEMENT OR FACE OF CURB, THE PAVEMENT REPLACEMENT SHALL EXTEND TO THE EDGE OF PAVEMENT OR FACE OF CURB

PAY LIMITS - TRENCH & ROADWAY DETAIL FOR D.I.P. (C175)

J:\16-128_Ridgewood E\5.0 Design (Work)\Phase\STA\16128\roadway\sheets\16128GM003-R.dgn 6/21/2018 9:45:26 AM william.croxton" ODOTV81_PDF_Half.pltcfg ODOTV81_Pen-ME.tbl IBI Group

NOTES:

1. **BEDDING:**
MATERIALS SHALL BE AASHTO M 43 NO. 56, 57, OR 67 CRUSHED STONE. NO ALTERNATES UNLESS APPROVED BY THE CITY ENGINEER. PRIVATE UTILITIES MAY TYPICALLY PROVIDE ALTERNATIVE BEDDING MATERIAL AS APPROVED BY THE CITY ENGINEER.

BEDDING WIDTH TABLE		
PIPE TYPE	MIN. WIDTH, TYP.	MAX. WIDTH, TYP.
NON-RIGID PIPE (PVC, HDPE, CMP, ALUMINUM)	PIPE I.D. x 1.25 + 1'-0"	PIPE O.D. + 2'-0"
RIGID PIPE (CONC., VIT. CLAY, DUCTILE IRON)	PIPE I.D. x 1.33	PIPE O.D. + 2'-0"

CENTER PIPE HORIZONTALLY WITHIN BEDDING AREA. ANY DEVIATION TO TYPICAL BEDDING REQUIREMENTS ARE SUBJECT TO THE DISCRETION OF THE CITY ENGINEER.

THE BEDDING LIMITS SHOWN APPLY IN ALL CASES EXCEPT FOR WHEN PIPE MANUFACTURER SPECIFIES A BEDDING WIDTH DIFFERENT FROM THAT SHOWN AND THE CITY ENGINEER PERMITS SAME.

2. **BACKFILL:**
BACKFILL WITHIN THE PUBLIC STREET RW:
MATERIALS SHALL BE ODOT 703.11, TYPE 1* GRANULAR MATERIAL (D04, 411, OR 617 AGGREGATE GRADATION) OR TYPE 2* GRANULAR MATERIAL, OR ODOT 613, LOW STRENGTH MORTAR. DEVIATIONS FROM THIS ARE AS FOLLOWS:
A) NO FOUNDRY SAND OR SLAG IS PERMITTED.
B) ALTERNATE* GRANULAR MATERIAL SHALL BE PERMITTED ONLY WITH THE SUPPLEMENTAL APPROVAL OF THE CITY ENGINEER. TO PETITION FOR SUCH SUPPLEMENTAL APPROVAL, THE DEVELOPER/CONTRACTOR SHALL SUBMIT IN WRITING THE FOLLOWING:
* SOURCE OF THE ALTERNATE BACKFILL MATERIAL.
* GRADATION REPORT IN ACCORDANCE WITH AASHTO T 11 AND T 27.
* PROCTOR CURVE ANALYSIS IN ACCORDANCE WITH ASTM D 698.
* PROPOSED COMPACTION METHOD.
THE CITY ENGINEER RESERVES THE RIGHT TO REFUSE ANY ALTERNATE BACKFILL MATERIAL, REGARDLESS OF APPROVAL OF SIMILAR MATERIAL ON A PREVIOUS PROJECT.
THE CITY ENGINEER FURTHER RESERVES THE RIGHT TO REFUSE ANY ALTERNATE BACKFILL MATERIAL THE CITY FINDS NOT CONSISTENT WITH THE APPROVED SOURCE, GRADATION REPORT, PROCTOR REPORT, OR COMPACTION METHOD.
C) ODOT 703.11, TYPE 2, OR ALTERNATE MATERIALS ARE NOT PERMITTED WITHIN 4 FEET OF THE TRENCH SURFACE, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

BACKFILL OUTSIDE OF THE PUBLIC STREET RW:
FOLLOW MATERIAL AND METHODS FOR BACKFILL IN ACCORDANCE WITH ODOT 603.

NOTES: (CONTINUED)

3. **COMPACTION:**
ALL BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12-INCHES LOOSE DEPTH AND COMPACTED BY APPROVED MECHANICAL MEANS. JETTING IS NOT APPROVED WITHOUT THE CITY ENGINEER'S APPROVAL. BUCKET COMPACTION MUST BE SUPPLEMENTED WITH VIBRATION OR TAMPING EQUIPMENT AS DIRECTED. ANY MODIFICATIONS TO THESE REQUIREMENTS MUST BE APPROVED BY THE CITY ENGINEER.

4. **SURFACE:**
TRENCHES SHALL BE TOPPED WITH 4" OF ODOT 304 LIMESTONE OR ASPHALT GRINDINGS WITHIN EXISTING STREET PAVEMENTS WHEN THE TRENCH TOPPING MATERIAL SHALL BE ROLLED OR OTHERWISE COMPLETED FLUSH WITH THE ADJOINING PAVEMENT.
STREET RESTORATION:
CONCRETE OR ASPHALT STREET PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH CITY STD. DWG. NO. 32. BRICK OR ASPHALT-BRICK COMPOSITE STREET PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH CITY STD. DWG. NO. 31.
SIDEWALK, CURB, AND DRIVEWAY RESTORATION:
DRIVEWAY SURFACES SHALL BE REPLACED IN ACCORDANCE WITH THE CURRENT EDITION OF THE CITY OF CANTON SPECIFICATIONS FOR THE CONSTRUCTION, REPAIR, AND REPLACEMENT OF SIDEWALKS, CURBS, AND DRIVEWAYS, AND CITY STD. DWG. NOS. 28 THRU 33.
LAWN RESTORATION:
LAWN SURFACES SHALL BE REPLACED WITH A MINIMUM OF 4" TOPSOIL, SEED, AND MULCHED. SEED MIX SHALL CONFORM TO ADJOINING LAWN GRASS.

5. **CONSTRUCTION METHODS FOR BEDDING AND BACKFILL SHALL CONFORM WITH ODOT 603, UNLESS STATED OTHERWISE HEREIN.**

6. **ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.**

REVISIONS			
DESCRIPTION	DATE	BY	
REVISIONS TO NOTES 7 & 8	6/4/2012	CDB	
REVISIONS TO NOTES 7	6/19/2013	CDB	

STANDARD DRAWING NO. 19
UTILITY TRENCH REQUIREMENTS
SHEET 1 OF 2

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: JAN 2012
APPROVED BY: CDB, RMB, SLH
DRAWING FILE NAME: ce_19.dwg

NOTES: (CONTINUED)

7. **PAY LIMITS FOR CITY PROJECTS**

A) **BEDDING AND BACKFILL** IS INCLUDED WITH THE COST OF PIPE UNLESS DIRECTED TO BID OTHERWISE.

B) **PAVEMENT RESTORATION** IS INCLUDED WITH THE COST OF PIPE UNLESS A SEPARATE PAY ITEM IS PROVIDED, WHEREBY THE WIDTH MEASUREMENT OVER THE TRENCH FOR PAVEMENT RESTORATION SHALL NOT EXCEED THE OUTSIDE DIAMETER (O.D.) OF PIPE PLUS A SET MEASUREMENT DEPENDENT ON DEPTH OF PIPE. AREA MEASUREMENTS AT MANHOLE AND CATCH BASIN STRUCTURES SHALL NOT EXCEED THE AREA OF THE BASE OF THE STRUCTURE + 3'-0" OFFSET AREA AROUND THE STRUCTURE'S BASE.

C) **EXTRA FOUNDATION MATERIAL:** THE CONTRACTOR SHALL BE PAID FOR OVER-EXCAVATION AND BEDDING FOUNDATION MATERIAL UNDER THE CONTINGENCY BID ITEMS FOR EXTRA FOUNDATION MATERIAL.

WHEN IN THE OPINION OF THE CITY ENGINEER, SOFT/UNSTABLE MATERIALS ARE ENCOUNTERED WHICH ARE UNSUITABLE FOR BEDDING FOUNDATION, SAID MATERIAL SHALL BE REMOVED BY THE CONTRACTOR TO THE DEPTH DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE MATERIAL.

FOR CITY PROJECTS, THE PAYABLE WIDTH OF THE EXTRA FOUNDATION MATERIAL SHALL NOT EXCEED THE LESSER OF THE APPLICABLE MINIMUM OR MAXIMUM TYPICAL BEDDING WIDTH, AS NOTED ON SHEET 1 OF STD. DWG. NO. 18.

FOR PRIVATE WORK, ALL COSTS ARE AT THE OWNER'S EXPENSE.

EXTRA FOUNDATION MATERIAL, OPTION A, B, C, & D, MAY BE USED IN ANY COMBINATION AS DIRECTED BY THE CITY ENGINEER:

OPTION A: CRUSHED STONE, AASHTO M 43 NO. 1 AND/OR 2
OPTION B: CRUSHED STONE, AASHTO M 43 NO. 56, 57, OR 67
OPTION C: ODOT 703.11, TYPE 1 (304, 411 OR 617 GRADATION)
OPTION D: TENSAR GEOGRID T1100, OR APPROVED EQUAL

EXTRA FOUNDATION MATERIAL, CONTINGENCY BID ITEMS			
ITEM	QTY.	UNIT	DESCRIPTION
603	C.Y.		EXTRA FOUNDATION, OPTION A (#2 STONE)
603	C.Y.		EXTRA FOUNDATION, OPTION B (#56,57,67 STONE)
603	C.Y.		EXTRA FOUNDATION, OPTION C (304,411,617)
603	S.F.		EXTRA FOUNDATION, OPTION D (GEOGRID)

8. **EXCAVATION OF ROCK OR BURIED/ABANDONED CONCRETE STRUCTURE REMOVAL**

EXCAVATION FOR NEW MANHOLES AND CATCH BASINS: UNLESS OTHERWISE SPECIFIED OR SHOWN ON CONSTRUCTION PLANS, SHALL BE MEASURED BETWEEN VERTICAL PLANES ONE (1) FOOT BEYOND THE OUTSIDE EDGE OF THE FOUNDATION OF THE STRUCTURES ON ALL SIDES, AND PARALLEL THERETO, AND FROM THE SURFACE OF THE ROCK TO THE BOTTOM OF THE ROCK, OR THE NEAR LINES OF THE BOTTOM OF THE STRUCTURES PLUS THE DEPTH OF THE BASE MATERIAL. USE THE MEASUREMENT WHICH IS LESSER.

EXCAVATION FOR NEW PIPES: UNLESS OTHERWISE SPECIFIED OR SHOWN ON CONSTRUCTION PLANS, SHALL BE MEASURED BETWEEN TRENCH WALLS (NOT TO EXCEED PIPE O.D. + 18" AND FROM THE SURFACE OF THE ROCK TO THE BOTTOM OF THE ROCK OR THE BOTTOM OF THE PIPE BEDDING. USE THE MEASUREMENT WHICH IS LESSER.

EXCAVATION OF BURIED AND ABANDONED CONCRETE STRUCTURES SHALL BE MEASURED IN THE SAME MANNER AS ROCK REMOVAL.

FOR CITY PROJECTS, THE CONTRACTOR SHALL BE PAID FOR ROCK REMOVAL AND CONCRETE STRUCTURE REMOVAL UNDER THE CONTINGENCY BID ITEMS FOR ROCK OR CONCRETE STRUCTURE REMOVAL. IF A CONTINGENCY BID ITEM IS NOT INCLUDED IN THE BID PROPOSAL, THE CONTRACTOR MAY SUBMIT A PROPOSAL (PRIOR TO WORK BEING STARTED) TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.

FOR PRIVATE WORK, ALL COSTS ARE AT THE OWNER'S EXPENSE.

ROCK AND BURIED & ABANDONED CONCRETE STRUCTURE REMOVAL, CONTINGENCY BID ITEMS			
ITEM	QTY.	UNIT	DESCRIPTION
603		C.Y.	ROCK REMOVAL
603		C.Y.	CONCRETE STRUCTURE REMOVAL

REVISIONS			
DESCRIPTION	DATE	BY	
REVISIONS TO NOTES 7 & 8	6/4/2012	CDB	
REVISIONS TO NOTES 7	6/19/2013	CDB	

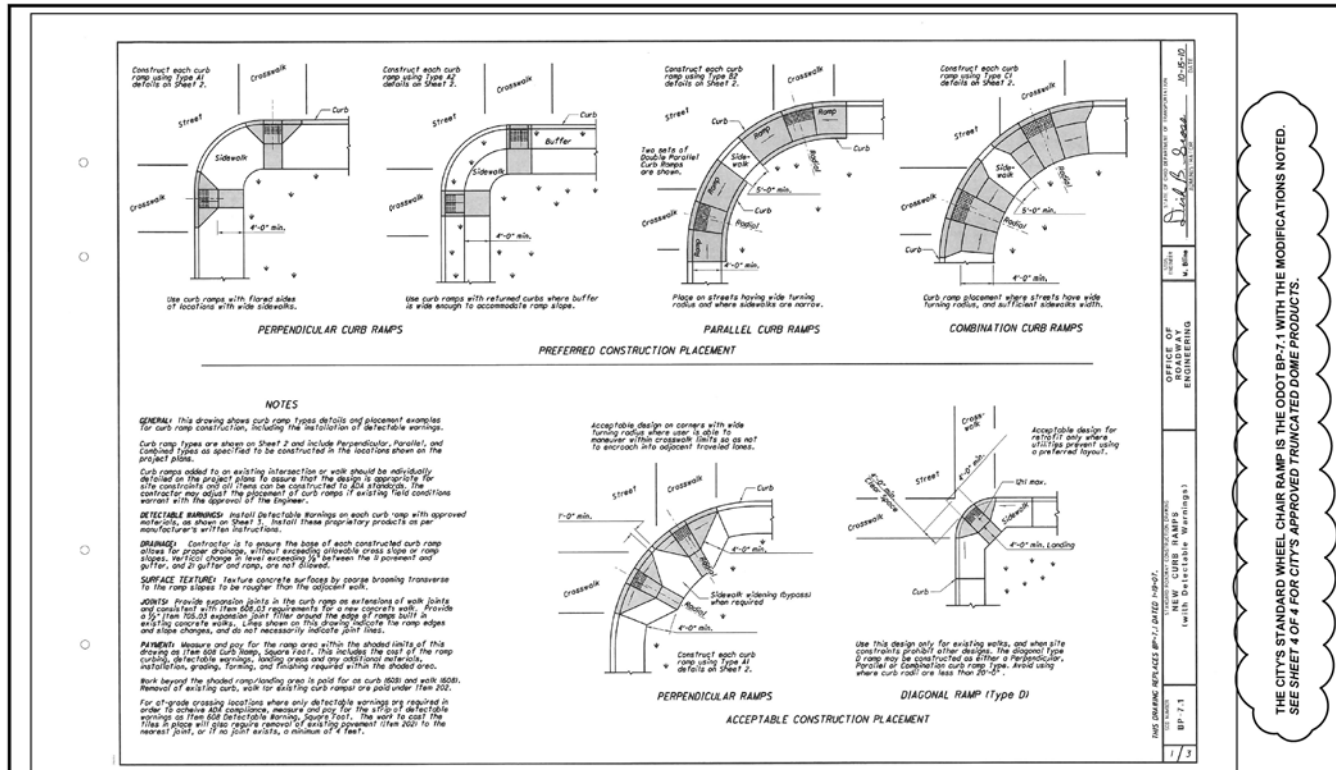
STANDARD DRAWING NO. 19
UTILITY TRENCH REQUIREMENTS
SHEET 2 OF 2

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: JAN 2012
APPROVED BY: CDB, RMB, SLH
DRAWING FILE NAME: ce_19.dwg

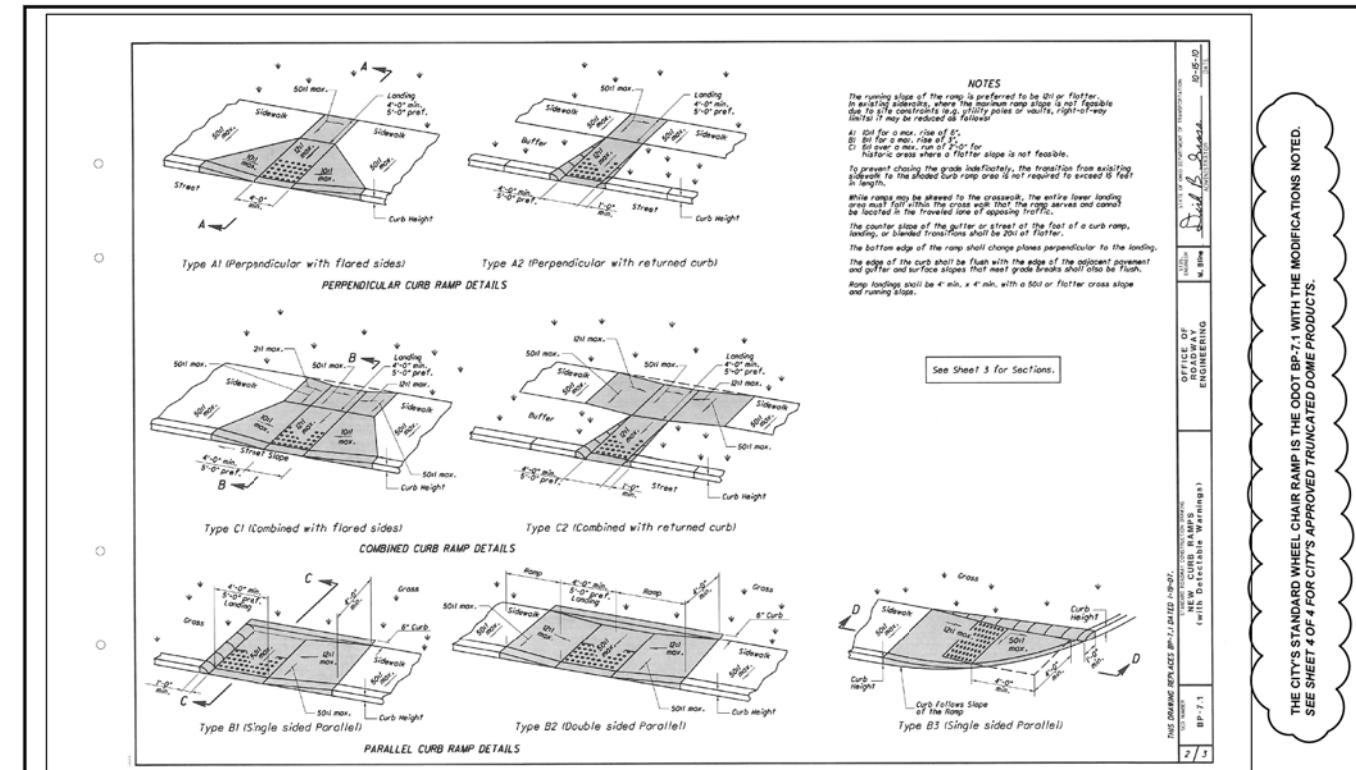
CALCULATED WLC CHECKED RMH
RIDGEWOOD EAST PH.1
PART 2: ROADWAY
19
21
MISCELLANEOUS ROADWAY DETAILS

J:\16-128_Ridgewood E\5.0 Design (Work) Phase\STA16128\roadway\sheets\16128GM004-R.dgn 6/21/2018 9:45:31 AM william.croxton\ODOTV81_PDF_half.plt.ctb



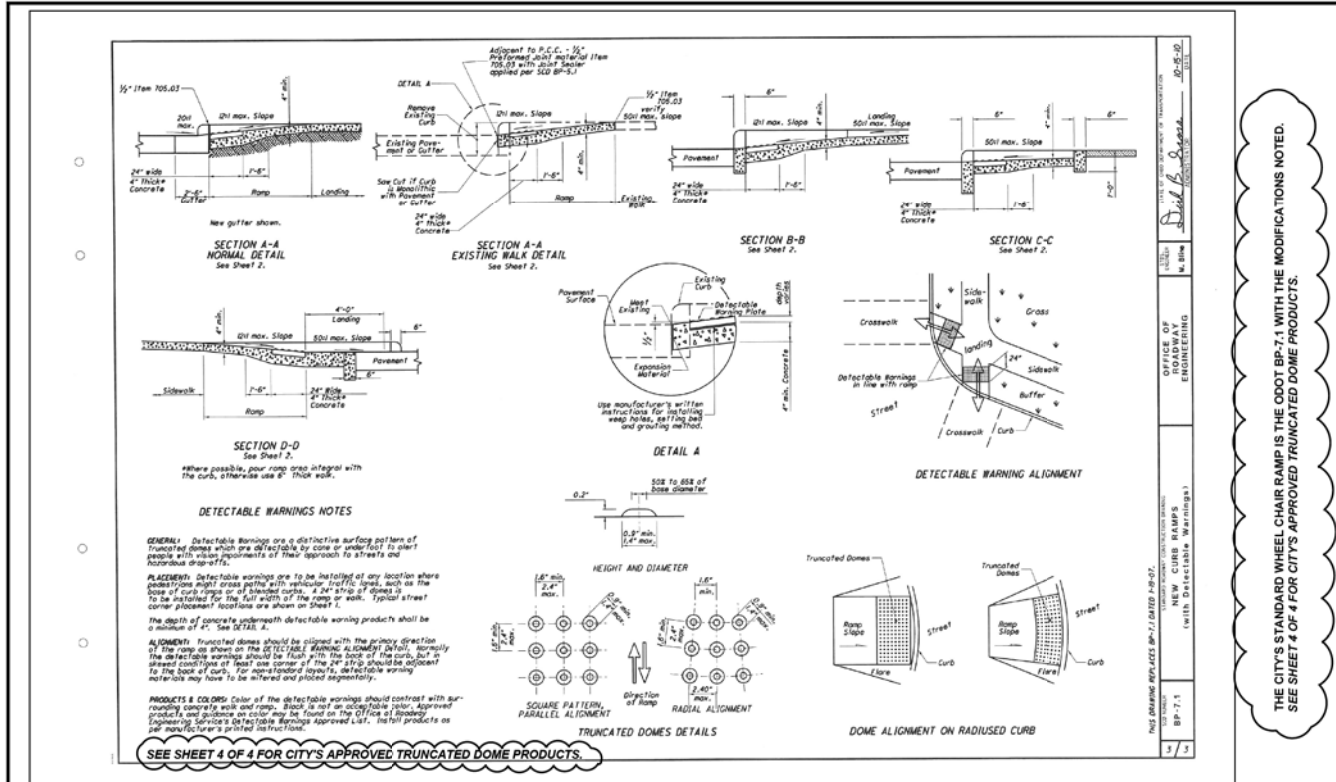
THE CITY'S STANDARD WHEEL CHAIR RAMP IS THE ODOT BP-7.1 WITH THE MODIFICATIONS NOTED. SEE SHEET 4 OF 4 FOR CITY'S APPROVED TRUNCATED DOME PRODUCTS.

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: MAY 2012 APPROVED BY: RMB DRAWING FILE NAME: ce_33.dwg	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>REVISIONS</td> <td>6/29/12</td> <td>RMB</td> </tr> </tbody> </table>	REVISIONS			DESCRIPTION	DATE	BY	REVISIONS	6/29/12	RMB	STANDARD DRAWING NO. 33 WHEEL CHAIR RAMP SHEET 1 OF 4
	REVISIONS											
DESCRIPTION	DATE	BY										
REVISIONS	6/29/12	RMB										



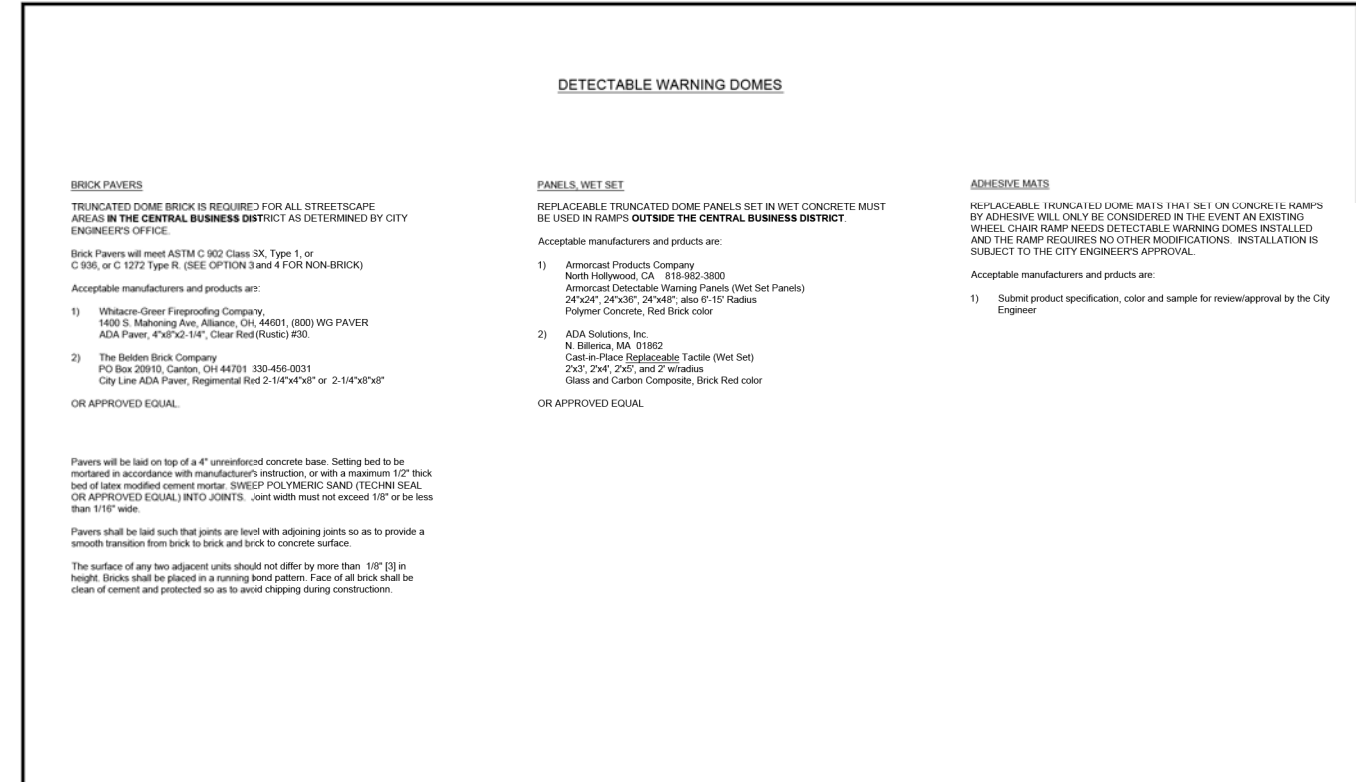
THE CITY'S STANDARD WHEEL CHAIR RAMP IS THE ODOT BP-7.1 WITH THE MODIFICATIONS NOTED. SEE SHEET 4 OF 4 FOR CITY'S APPROVED TRUNCATED DOME PRODUCTS.

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: MAY 2012 APPROVED BY: RMB DRAWING FILE NAME: ce_33.dwg	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>REVISIONS</td> <td>6/29/12</td> <td>RMB</td> </tr> </tbody> </table>	REVISIONS			DESCRIPTION	DATE	BY	REVISIONS	6/29/12	RMB	STANDARD DRAWING NO. 33 WHEEL CHAIR RAMP SHEET 2 OF 4
	REVISIONS											
DESCRIPTION	DATE	BY										
REVISIONS	6/29/12	RMB										



THE CITY'S STANDARD WHEEL CHAIR RAMP IS THE ODOT BP-7.1 WITH THE MODIFICATIONS NOTED. SEE SHEET 4 OF 4 FOR CITY'S APPROVED TRUNCATED DOME PRODUCTS.

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: MAY 2012 APPROVED BY: RMB DRAWING FILE NAME: ce_33.dwg	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>REVISIONS</td> <td>6/29/12</td> <td>RMB</td> </tr> </tbody> </table>	REVISIONS			DESCRIPTION	DATE	BY	REVISIONS	6/29/12	RMB	STANDARD DRAWING NO. 33 WHEEL CHAIR RAMP SHEET 3 OF 4
	REVISIONS											
DESCRIPTION	DATE	BY										
REVISIONS	6/29/12	RMB										



OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering	APPROVED DATE: MAY 2012 APPROVED BY: RMB DRAWING FILE NAME: ce_33.dwg	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>REVISIONS</td> <td>6/29/12</td> <td>RMB</td> </tr> </tbody> </table>	REVISIONS			DESCRIPTION	DATE	BY	REVISIONS	6/29/12	RMB	STANDARD DRAWING NO. 33 WHEEL CHAIR RAMP SHEET 4 OF 4
	REVISIONS											
DESCRIPTION	DATE	BY										
REVISIONS	6/29/12	RMB										

CALCULATED WLC CHECKED RMH
 MISCELLANEOUS ROADWAY DETAILS
 RIDGEWOOD EAST PH.1 PART 2: ROADWAY
 20
 21

J:\16-128_Ridgewood E\5.0_Design (Work) Phase\STA\16128\roadway\sheets\16128GM005-R.dgn 6/21/2018 9:45:40 AM william.croxton" ODOTV81_PDF_Half.plt.cfb ODOTV81_Pen-ME.tbl IB1 Group

PLAN VIEW
EXISTING ASPHALT OVER BRICK PAVEMENT
2 FT. ASPHALT TRANSITION
EXPANSION JOINT
1 FT. BRICK TRANSITION
EXISTING BRICK PAVEMENT
CONCRETE CROSSWALK
- 8 FEET WIDE, WITH 4"x4" JOINT SPACING ALONG OR CROSSING ARTERIAL STREETS.
- 6 FEET WIDE (MIN.) ALONG OR CROSSING LOCAL STREETS.

SECTION VIEW
1" WIDE BRICK SURFACE RESTORATION (SEE NOTE 5)
8" WIDE (MIN.) ALONG OR CROSSING LOCAL STREETS
2" WIDE ASPHALT SURFACE RESTORATION (SEE NOTE 6)
CONCRETE CROSSWALK
2" to 3" ASPHALT PAVEMENT (ODOT 448, SURFACE COURSE, TYPE 2)
SAW CUT ASPHALT PAVEMENT, SEAL JOINT WITH ASPHALT CEMENT.
EX. BRICK
EX. CONCRETE
CRUSHED STONE BASE, ODOT 304, 411, 517 OR AASHTO #57, #67
SAW CUT
RUBBERIZED TACK COAT ON CONCRETE AND ON BRICK PRIOR TO PLACING ASPHALT PAVEMENT
1" WIDE CONCRETE BASE, 6" MINIMUM THICKNESS
9" CONCRETE CROSSWALK AND PAVEMENT TRANSITION, ODOT 305, ODOT 609
1" SAND/MORTAR SETTING BED

NOTES:
1. CONCRETE CROSS WALKS MUST BE CONSTRUCTED IN THE ROADWAY WHEN EXISTING PAVEMENT IS DISTURBED WHERE BRICK ROADS TRANSITION TO ASPHALT ROADS BY OVERLAY OF ASPHALT ON BRICK PAVERS UNLESS DETERMINED OTHERWISE BY THE CITY ENGINEER.
2. CROSS WALK CONSTRUCTION MUST CONFORM TO ODOT 608 AND THE CURRENT CITY OF CANTON SPECIFICATIONS FOR THE CONSTRUCTION, REPAIR, AND REPLACEMENT OF SIDEWALKS, CURBS, AND DRIVEWAYS.
3. SECTION PROFILE OF CROSS WALK TO BE FIELD DETERMINED BASED ON EXISTING ASPHALT AND BRICK PAVEMENT ELEVATIONS. PROFILE OF THE CROSSWALK MUST BE SET IN A MANNER THAT DOES NOT IMPIDE THE STORMWATER DRAINAGE.
4. DURING REMOVAL OF PAVEMENT FOR INSTALLATION OF NEW CONCRETE CROSS WALK, CONTRACTOR MUST STABILIZE BRICK PAVERS AND PREVENT BRICKS, THAT ARE TO REMAIN IN PLACE, FROM COMING LOOSE.
5. CONTRACTOR TO REPLACE BRICK PAVEMENT WITH SALVAGED BRICK SET ON A 1" CONCRETE BASE AND 1" SAND/MORTAR SETTING BED. REUSE OF EXISTING CONCRETE BASE UNDER BRICK IS ACCEPTABLE IF CITY ENGINEER DEEMS EXISTING CONCRETE BASE IS IN SATISFACTORY CONDITION. OTHERWISE NEW CONCRETE BASE MAY BE REQUIRED. SWEEP BRICK JOINTS WITH TECHNI SEAL, POLYMER SAND (OR APPROVED EQUAL). ALL BRICK PAVERS RESET MUST MEET THE GRADES ESTABLISHED BY THE ENGINEER. SURFACE ELEVATION FROM BRICK TO BRICK, OR BRICK TO CONCRETE MUST NOT EXCEED 1/8".
6. CONTRACTOR MUST PLACE TRANSITIONAL ASPHALT PAVEMENT (ODOT 448, SURFACE COURSE, TYPE 2) MATCHING THE SURFACE OF THE NEW CONCRETE CROSS WALK AND EXISTING ASPHALT PAVEMENT. ASPHALT PAVEMENT THICKNESS MUST NOT BE LESS THAN 2", OR GREATER THAN 2". ASPHALT PAVEMENT MUST BE SET ON A CONCRETE BASE WITH A MINIMUM THICKNESS OF 1". THE CONCRETE BASE MUST LOCK IN THE EXISTING BRICK PAVERS. APPLY RUBBERIZED TACK COAT ON CONCRETE BASE AND BRICK BASE PRIOR TO INSTALLING ASPHALT PAVEMENT.
7. CONCRETE MATERIAL FOR CROSS WALK AND BASE MUST BE ODOT #69 CLASS 'C' CONCRETE WITH LIMESTONE AGGREGATE.
8. NO FOUNDRY SAND OR SLAG PERMITTED IN AGGREGATE BASE.
9. ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.

STANDARD DRAWING NO. 34
CONCRETE CROSSWALK AND PAVEMENT TRANSITION
SHEET 1 OF 1

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: MAY 2012
APPROVED BY: RMB
DRAWING FILE NAME: ce_34.dwg

REVISIONS			
DESCRIPTION	DATE	BY	
REVISIONS	7/20/12	RMB	

CROSSWALK DETAIL
SWEEP JOINTS W/ POLYMERIC SAND - TECHNI SEAL OR EQUAL
BRICK PAVER / PERPENDICULAR HERRINGBONE
1" MAX COMPACTED SAND MORTAR ODOT 703.02 (ASTM C-33) SETTING BED
FRAMING PIN WEEP HOLES NOT TO EXCEED 4' O.C.
CONCRETE CROSSWALK APP. SEE DETAIL
6" CONCRETE BASE
6" AGG. BASE, ODOT ITEM #304

NOTES:
NO FOUNDRY SAND OR SLAG IS PERMITTED IN AGGREGATE BASE (304).
4X8 BRICK PAVER, 2 3/4" THICK - ROADWAY PAVER BY BELDEN BRICK - ASTM C1272 TRAFFIC TYPE F, APPL. PX WEATHER SX - 10,000 PSI - COLOR JUMBO REGIMENTAL
BRICK ALTERNATE - WHITACRE GREER 4 X 8-1/2 X 3-1/2 WEATHER CLASS SX, TRAFFIC F, APPLICATION PX - COLOR 33 DARK ANTIQUE - 10,000 PSI ASTM C1272
BRICK TO HAVE BEVELED EDGE AND LUGS.
USE PERPENDICULAR HERRINGBONE PATTERN IN INTERSECTION.
SWEEP JOINTS WITH DRY MIXTURE OF POLYMERIC SAND Techni-Seal OR APPROVED EQUAL. USE PLATE TAMPER WITH RUBBER MAT OR OTHER PROTECTION FOR BRICK. REMOVE EXCESS AND MOISTEN TO SET JOINT SEALANT SAND.
1" MAX COMPACTED CONCRETE SAND ODOT 703.02 (ASTM C 33) SETTING BED W/ MORTAR.
USE INTERIOR FORMING PINS FOR WEEP HOLES ON DOWNSLOPE SIDES AND INTERIOR CORNERS. MAX 4 FT. CENTERS. - COVER W/ FILTER FABRIC.
CONCRETE CROSSWALK AND PAVEMENT IS TO BE CLASS "C" ODOT 499.03 - HIGH EARLY. NO EXPANSION JOINTS ARE TO BE PLACED AGAINST BRICK PAVER SECTIONS.
MAX 1/4" SPACE BETWEEN BRICK AND CONCRETE. PROVIDE 1/4" RADIUS ON ALL SLAB EDGES.
ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.
ALL CONCRETE CONSTRUCTION TO CONFORM TO CURRENT CITY OF CANTON SPECIFICATIONS FOR CONSTRUCTION, REPAIR AND REPLACEMENT OF SIDEWALKS, CURBS AND DRIVEWAYS.

TYPICAL TOOLED AND CUT CONTROL JOINT
1/4" DEPTH OF SLAB - SPACING OF JOINTS TO BE 4' O.C. - ALIGN CONCRETE CROSSWALK AND CONCRETE WALK JOINTS. FILL JOINTS WITH POLYURETHANE ELASTOMERIC SEALANT TYP. TREMCO THC 900 / 901 OR EQUAL FOR CONTROL JOINTS. 1/2" CLOSED CELL EXPANSION JOINT FILLER TO BE SEALTIGHT CERAMAR OR EQUAL - (DOT O.C. MAX)

10" ITEM 452 PLAIN PORTLAND CEMENT CLASS C (LIMESTONE) CONCRETE PAVEMENT
COMPACTED AGGREGATE BASE ODOT ITEM 304, 6" TYP.

STANDARD DRAWING NO. 41
ROADWAY BRICK & CROSSWALK PAVEMENT DETAILS
SHEET 1 OF 1

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: FEB. 2012
APPROVED BY: JTD
DRAWING FILE NAME: ce_40-47_STREETScape.dwg

REVISIONS			
DESCRIPTION	DATE	BY	
REVISIONS			

PLAN VIEW
STAND-UP CONCRETE CURB SECTION
CONCRETE CURB & GUTTER SECTION
1/2" EXPANSION JOINT
18" SMOOTH DOWEL (ODOT ITEM 709.00)
PAVEMENT
CONC. CURB
GUTTER
DUMP NO DRAINS TO WASTE STREAM
STREET PROFILE SLOPE
DROP PAVEMENT/GUTTER 2" IN 2 TO 8 L.F. EACH SIDE OF CATCH BASIN
CONC. CURB
CONC. GUTTER
18" CONC. CURB
PAVEMENT
18" SMOOTH DOWEL (ODOT ITEM 709.00)
BRICK CATCH BASINS ARE ACCEPTABLE AND SHALL BE CONSTRUCTED PER THIS DRAWING AND THE FOLLOWING SPECIFICATIONS:
1. PROVIDE CLAY BRICK (ASTM C-228) WALLS WITH FULL MORTAR (ASTM C-91 & C-150, AIR-ENTRAINED PORTLAND CEMENT) JOINTS. CONCRETE & CEMENT BLOCKS/BRICKS ARE PROHIBITED FOR NEW OR RECONSTRUCTED BASINS.
2. THE CATCH BASIN SHALL HAVE A CONCRETE BASE (MINIMUM 6" THICKNESS) EXTENDING 6" BEYOND OUTSIDE OF FOUR WALLS OF CATCH BASIN.
3. EVERY SEVENTH COURSE MUST BE A STRETCHER COURSE.
4. WALLS SHALL BE MINIMUM 6" THICK.
5. PLASTER OUTSIDE WALLS WITH 1/2" NON-SHRINK MORTAR. INSIDE JOINTS MUST BE NEATLY STRUCK AND CLOSED.

SECTION A-A
NOT TO SCALE
FOR BACKFILL MATERIAL AND COMPACTION, AND ROCK EXCAVATION, IF APPLICABLE, REFER TO CITY STANDARD DRAWING NO. 19
4" PIPE (ODOT ITEM 707.33) STUB WITH WATERTIGHT PLUG OR CAP (SEE NOTE 10)
DEPTH VARIES (6" TYPICAL)
UNDISTURBED EARTH

SECTION B-B
NOT TO SCALE
LOCATION OF GRATE ELEVATION, STATION, AND OFFSET (GRATE ELEVATION SHALL BE 2" BELOW TYPICAL GUTTER LINE)
TYP. PAVEMENT/GUTTER LINE
CONCRETE GUTTER, AS APPLICABLE
CASTING TO BE SET ON TWO 1/2" TO 1" BEADS OF CONSEAL, BUTYL RUBBER SEALANT, OR APPROVED EQUAL
BEDDING AROUND PIPE PER CITY STD. DWG. NO. 16, AS APPLICABLE
STORM SEWER
GROUT AROUND PIPE (SEE NOTE 9)
6" CONCRETE BASE
UNDISTURBED EARTH

NOTES:
1. ALL WORK SHALL CONFORM TO ODOT ITEM 604 EXCEPT AS OTHERWISE NOTED HEREIN.
2. PRECAST CONCRETE OR BRICK CATCH BASINS ARE ALLOWED AS NOTED HEREIN.
3. ALL CONCRETE SHALL CONFORM TO ODOT ITEM 499 CLASS C (4000 psi).
4. WHEN STREET PROFILE SLOPE IS 5% OR STEEPER, CONSTRUCT CATCH BASIN IN ACCORDANCE WITH CITY STD. DWG. NO. 3.
5. A CONCRETE CHANNEL SHALL BE POURED INTO THE BOTTOM OF THE CATCH BASIN USING CLASS 'C' CONCRETE. THE CHANNEL SHALL TAPER FROM 9" THICKNESS TO 2" MIN. THICKNESS AT THE LOWEST SEWER INVERT AND SHALL BE FINISHED WITH A SMOOTH SURFACE.
6. THE EXCAVATED AREA AROUND THE CATCH BASIN SHALL BE BACKFILLED WITH ODOT ITEM 703.11, TYPE 1 (304, 411, OR 517) COMPACTED IN 6" LIFTS OR ODOT ITEM 613. NO FOUNDRY SAND OR SLAG PERMITTED.
7. EXPANSION JOINT MATERIAL SHALL CONFORM TO ODOT ITEM 705.03. 1" OF JOINT SEALER (705.04) SHALL BE PLACED OVER EXPANSION JOINTS.
8. CASTINGS SHALL BE EAST JORDAN 7030 CURB INLET WITH TYPE T1 BACK AND TYPE M6 VANE GRATE. NEENAH R-305-L OR EQUAL APPROVED BY CITY ENGINEER (GRATE USED SHALL NOT BE SPECIFICALLY IDENTIFIED BY MANUFACTURER AS NOT SUITABLE FOR BICYCLE TRAFFIC). THE CASTING HOOD MUST INCLUDE "ECO-SENSITIVE" MARKINGS SUCH AS: "DUMP NO WASTE; DRAINS TO STREET" AND AN AQUATIC LIFE LOGO. THE LETTERING AND LOGO SHALL BE RAISED OR RECESSED AND INTEGRAL WITH THE CASTING OF THE BACK. ALTERNATE NOTATION OR LOGO IS SUBJECT TO THE CITY ENGINEER'S APPROVAL.
9. ALL OPENINGS AND KNOCKOUTS FOR INLET AND OUTLET PIPING SHALL BE FASHIONED NEATLY. ALL ANNUAL SPACE SHALL BE FILLED WITH CEMENT GROUT, BRICK AND MORTAR, OR CLASS 'C' CONCRETE.
10. ONE 4" DIAMETER INLET PIPE SHALL BE INSTALLED ON THE SIDE OF THE CATCH BASIN OPPOSITE THE STREET (AS SHOWN).
11. KNOCK-OUT PANELS ARE NOT ALLOWED UNLESS PRE-APPROVED BY THE CITY ENGINEER.
12. ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.

STANDARD DRAWING NO. 1
CURB INLET CATCH BASIN
SHEET 1 OF 1

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: MAR. 2012
APPROVED BY: CDB, RMB, SLH
DRAWING FILE NAME: ce_01.dwg

REVISIONS			
DESCRIPTION	DATE	BY	
REVISIONS			

PLAN VIEW
NOT TO SCALE
UPHILL FRONT CORNER OF HOOD IS 12" BEHIND TYPICAL FACE OF CURB
FIELD LOCATION OF CATCH BASIN: GRATE ELEVATION = PLAN ELEV. (2" BELOW TYPICAL GUTTER LINE) STATION = PLAN STATION OFFSET = PLAN OFFSET PLUS 0.5' (AT TYPICAL BACK OF CURB)
PLAN LOCATION OF GRATE ELEVATION, STATION, AND OFFSET (AT TYPICAL FACE OF CURB)
DOWNHILL FRONT CORNER OF HOOD MATCHES TYPICAL FACE OF CURB
CURB
TYPICAL FACE OF CURB/GUTTER LINE
8.64'-0"
24.6'-0"
NOTES:
1. CONSTRUCT HILLSIDE CURB INLET CATCH BASINS ON ROAD PROFILE GRADES OF 3% OR STEEPER, OR AS OTHERWISE REQUIRED BY THE CITY ENGINEER.
2. ALL CATCH BASIN SPECIFICATIONS SHALL BE AS PER STANDARD DRAWING NO. 1 OR 2, AS APPLICABLE.
* DIMENSIONS SHOWN ON BASED ON A PRECAST CONCRETE CURB INLET CATCH BASIN WITH 6" WALLS

PROFILE VIEW
NOT TO SCALE
TOP OF CURB @ PLAN SLOPE
TYPICAL CURB LINE PROJECTION
ADJUST TOP OF HOOD TO CONFORM AS BEST AS POSSIBLE WITH TYPICAL CURB SLOPE
8" FROM TOP OF GRATE (AT GUTTER LINE) TO TOP OF HOOD AT DOWNHILL SIDE OF INLET
TOP OF CURB @ PLAN SLOPE
GUTTER LINE
TOP OF CATCH BASIN STRUCTURE AND INLET FRAME ARE SET LEVEL

STANDARD DRAWING NO. 3
HILLSIDE CURB INLET CATCH BASIN
SHEET 1 OF 1

OFFICE OF THE CITY ENGINEER
CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2436 30th St. NE 44705 330-489-3381 www.cantonohio.gov/engineering

APPROVED DATE: MAR. 2012
APPROVED BY: CDB, RMB, SLH
DRAWING FILE NAME: ce_03.dwg

REVISIONS			
DESCRIPTION	DATE	BY	
REVISIONS			

CALCULATED WLC CHECKED RMH
MISCELLANEOUS ROADWAY DETAILS
RIDGEWOOD EAST PH. 1
PART 2: ROADWAY
21
21

**PROJECT LABOR AGREEMENT
FOR THE
RIDGEWOOD EAST WATERLINE AND ROADWAY REPLACEMENT PROJECT,
PART 1 AND PART 2
ENTERED INTO BETWEEN
CITY OF CANTON
AND
EAST CENTRAL OHIO BUILDING AND CONSTRUCTION
TRADES COUNCIL AFL-CIO
AND
SIGNATORY LOCAL UNIONS**

Effective _____

CONTENTS

ARTICLE I	Intent and Duration	3
ARTICLE II	Purpose	4
ARTICLE III	Benefits of this Agreement.....	5
ARTICLE IV	Scope of Agreement.....	6
ARTICLE V	Labor/Management Cooperation Joint Administrative Committee	10
ARTICLE VI	Union Recognition and Employment.....	10
ARTICLE VII	Grievance Arbitration Procedure.....	12
ARTICLE VIII	Jurisdictional Disputes	14
ARTICLE IX	Management's Rights	15
ARTICLE X	Work Stoppages	15
ARTICLE XI	Wages and Benefits.....	16
ARTICLE XII	Local Union Negotiations During the Pendency Of the Agreement	17
ARTICLE XIII	Hours of Work, Overtime, Shifts and Holiday	18
ARTICLE XIV	Apprentices	21
ARTICLE XV	Drug and Alcohol Policy	22
ARTICLE XVI	Non-Discrimination	22
ARTICLE XVII	Sole and Complete Agreement	22
ARTICLE XVIII	Separability and Savings Clause	22

ARTICLE I

INTENT AND DURATION

Section 1. Intent And Duration. This Project Labor Agreement (the "Agreement") is entered into between the City of Canton (collectively the "Owner"); the East Central Ohio Building and Construction Trades Council, AFL-CIO ("ECOB & CTC" or "Council"); and the Signatory Unions (the "Unions"), and applies exclusively to the construction work within the scope of this Agreement to be performed on the Ridgewood East Waterline and Roadway Replacement Project, Part 1 and Part 2 (the "Project"). The purpose of this Agreement is to promote efficiency and cost-savings in the construction and refurbishment that is a part of the Project and to provide for the peaceful settlement of any and all labor disputes and grievances without strikes or lockouts, thereby promoting the public interest in assuring the timely and economical completion of the Project. This Agreement shall expire and be of no further force or effect upon the completion of the Project.

Upon execution of this Agreement by all parties, all construction, refurbishing and renovation work covered by this Agreement on the Project shall be contracted exclusively to Contractors, of whatever tier, who agree to execute and be bound by the terms of this Agreement. The Unions agree that Contractors may execute the Agreement, or the Letter of Assent attached as Appendix I, for purposes of performing such work. The Owner (or its permitted designee) shall monitor compliance with this Agreement by all contractors and subcontractors. For purposes of the Agreement, the term "Contractor" shall be deemed to include all construction contractors and subcontractors of whatever tier engaged in on-site construction, refurbishment and renovation work on the Project. The Owner, the Unions and all signatory Contractors agree to abide by the terms and conditions contained in the Agreement. This Agreement represents the complete understanding of all parties, and no Contractor is or will be required to sign any other agreement with a signatory union as a condition of performing work coming within the scope of this Agreement. No practice, understanding or agreement between a Contractor and a Union, which conflicts with any provisions in this Agreement, will be binding on any other party unless endorsed in writing by the Owner.

Section 2. Limitation Of Agreement To Project. The Unions agree that this

Agreement will be made available to, and will fully apply to, any successful bidder for work on the Project, without regard to whether that successful bidder performs work at other sites on either a union or a non-union basis, and without regard to whether employees of such bidder are or are not members of any union. The Unions further agree that this Agreement applies only to this Project. Nothing in this agreement is intended to, or shall, interfere with, or negate, any existing contractual relationship or collective bargaining agreement between the Union and any contractor or subcontractor that may execute this Agreement.

ARTICLE II

PURPOSE

Section 1. Purpose. The parties to this Agreement understand and acknowledge that the timely construction of the Project is critical to the economic stability and development of the City of Canton and the welfare of Canton residents. The Ridgewood East Water Line is in a deteriorating state and has the potential to rupture. The Ridgewood East Water Line is critical to the water supply needs of the City of Canton and its residents. This Project consists of two Parts but will be bid as one contract to one contractor. Part 1 is the water line replacement and Part 2 is the roadway reconstruction. The Project is located on 22nd, 23rd, and 24th Streets N.E., east of Market Avenue and west of Gibbs Avenue. Part 1 of the Project will consist of replacing 2,400 feet of six inch water line, 300 feet of eight inch water line and 550 feet of twelve inch water line. This replacement will span .6 miles. Part 2 will consist of rebuilding 2,400 feet (approximately .5 miles) of the existing brick road adjacent and over the water line. It will require removing the existing brick surface, installing underdrains, rebuilding the road base and relaying the existing brick. The estimated Project cost for Part 1 is \$1 million dollars. The estimated Project cost for Part 2 is \$630 thousand dollars. Because of the nature of this Project, it must be let out for bid in the first quarter of calendar year 2018 in order for work to begin as soon as possible thereafter. The parties signatory to this Agreement accordingly pledge their complete good faith and trust to work towards an on-time and efficient completion of the Project.

Section 2. Time Is Of The Essence. The parties to this Agreement understand

and agree that time is of the essence for this Project. The parties understand and agree that the Owner has a critical need for timely completion of the Project and that timely completion of the Project is therefore vital. The parties understand and agree that timely completion of the Project will require the use of substantial numbers of employees from construction and supporting crafts possessing skills and qualifications that are essential to the Project. The Unions pledge that they have members who are competent, skilled, and qualified to perform the required construction work. The parties also understand that on-budget completion of the Project is most critical; it is therefore essential that construction work on the Project be done in an efficient, economical manner with optimum productivity and with no delays. In recognition of those special needs of the Project, the Unions signatory hereto and their members agree not to initiate, authorize, sanction, participate in or condone, or permit their members to engage in, any strike, sympathy strike, jurisdictional strike, recognitional strike, slowdown, sabotage, work to rule, sickout, sit down, picketing of any type (including informational picketing), handbilling, boycott, interruption of work or any disruptive activity that interferes with or interrupts in any way work on the Project or other operations of the City of Canton. Contractors agree not to engage in any lockouts.

ARTICLE III

BENEFITS OF THE AGREEMENT

Section 1. Benefits Of The Agreement. This Agreement is intended to foster the achievement of a timely and on-budget completion of the Project by, among other things:

- (a) reducing and/or eliminating the tension and potential disagreements that might otherwise exist between Union and non-union workers on the Project;
- (b) avoiding the costly delays of strikes, sympathy strikes, jurisdictional strikes, slowdowns, walkouts, picketing, handbilling and any other disruptions or interference with work, and promoting labor harmony and peace for the duration of the Project;
- (c) standardizing terms and conditions governing the employment of labor on the Project;
- (d) permitting flexibility in work scheduling and shift hours and times;

- (e) achieving negotiated adjustments as to work rules and staffing requirements from those which otherwise might obtain;
- (f) providing comprehensive and standardized mechanisms for the settlement of work disputes;
- (g) ensuring a reliable source of skilled and experienced labor; and
- (h) furthering public policy objectives, to the extent lawful, as to improved employment opportunities for minorities, women and the economically disadvantaged in the construction industry. Mindful of the economic condition and unemployment rate in Stark County, the Owner anticipates and expects that all construction workers and employees on this Project will be residents of Stark County. In view of the very technical and specialized work that is inherent in the construction industry, all parties acknowledge that this expectation by the Owner is a goal, not a mandate. To this end, all Contractors working under this Agreement pledge that they will make a good-faith effort to reach this goal expressed by the Owner.

ARTICLE IV

SCOPE OF AGREEMENT

Section 1. The Work. This Agreement is specifically defined and limited to onsite construction and renovation work required to construct the Project.

Section 2. Exclusions From Scope. Items specifically excluded from the scope of this Agreement, even if performed in connection with the Project, include the following:

- (a) Work of non-manual employees, including but not limited to, superintendents, supervisors, staff engineers, inspectors, quality control and quality assurance personnel, timekeepers, mail carriers, clerks, office workers, including messengers, guards, safety personnel, emergency medical and first aid technicians, and other professional, engineering, administrative, supervisory and management employees.
- (b) Equipment and machinery owned or controlled and operated by the Owner.
- (c) All off-site manufacture, fabrication or handling of materials, equipment

or machinery (except at dedicated lay-down or storage areas and except as provided in Article IV, Section 10), and all deliveries of any type to and from the Project site (except on-site pouring of concrete).

- (d) All employees of the Owner, the Construction Supervisor, design team or any environmental, engineering or other consultant when such employees do not perform labor coming within the scope of this Agreement.
- (e) Any work performed on or near or leading to or onto the site of work on the Project and undertaken by state, county, city or other governmental bodies, or their contractors; or by public utilities or their contractors.
- (f) Off-site maintenance of leased equipment and on-site supervision of all such maintenance work.
- (g) Work by employees of a manufacturer or vendor necessary to maintain such manufacturer's or vendor's warranty or guarantee, or work performed by supervisors or technicians employed by the manufacturer or vendor to oversee the testing of equipment once installed to insure that the equipment is fully operational.
- (h) Laboratory work for specialty testing or inspections not ordinarily done by the signatory local unions.
- (i) All work done by employees of any State agency, authority or entity or employees of any municipality or other public employer.

The Unions agree that there shall be no interference with or disruption of work, of those contractors, employers, and employees exempted from coverage of this Agreement by subparagraph (a) through (i) above.

Section 3. Contract Award and Consent to Agreement.

- (a) The Owner, and/or Contractors, as appropriate, have the absolute right to award contracts or subcontracts on the Project notwithstanding the existence or nonexistence of any agreements between such Contractor and any Union party provided only that such Contractor is willing, ready and able to execute and comply with this Agreement or a Letter of Assent thereto, should such Contractor be awarded work covered by this Agreement.

- (b) All subcontractors of a Contractor, of whatever tier, who have been awarded contracts of work covered by this Agreement, on or after the effective date of this Agreement, shall also be required to accept and to be bound by the terms and conditions of this Agreement, and shall evidence their acceptance by the execution of this Agreement or a Letter of Assent thereto, prior to the commencement of work. A copy of this Agreement or Letter of Assent executed by each Contractor shall be immediately provided to the Union upon execution.

Section 4. Stand-Alone Agreement. This Agreement is a stand-alone Agreement. While this Agreement expressly does not incorporate any local area collective bargaining agreements, such local area collective bargaining agreements may be referenced for the limited purposes as hereinafter set forth in this Agreement. However, to the extent, if any, that any provisions of this Agreement conflict with any provision of a local area collective bargaining agreement, the provisions of this Agreement shall control, except for all work performed under the NTL Articles of Agreement, the National Stack/Chimney Agreement, the National Cooling Tower Agreement, all instrument calibration work and loop checking shall be performed under the terms of the UA/IBEW Joint National Agreement for Instrument and Control Systems Technicians, and the National Agreement of the International Union of Elevator Constructors, with the exception of Articles VII, VIII and X of this Agreement, which shall apply to such work.

Section 5. Craft Jurisdiction. This Agreement shall recognize the traditional craft jurisdictions of the signatory unions. Any and all jurisdictional disputes shall be settled in accordance with Article VIII below. While this Agreement is a stand-alone Agreement, the Agreement will utilize the local area collective bargaining agreements of signatory locals, not state-wide agreements or other special project agreements, as a reference to define the signatory local unions' craft jurisdiction. Again, jurisdictional disputes shall be settled in accordance with Article VIII.

Section 6. Subcontracting. The Owner agrees that neither it nor any of its contractors or subcontractors will subcontract any work covered by this Agreement to be done on the Project except to a person, firm or corporation who is or agrees to become party to this Agreement. Any contractor or subcontractor working on the

Project shall, as a condition to working on said Project, become signatory to and perform all work under the terms of this Agreement. Contractors who are signatory to local collective bargaining agreements shall be bound by the terms of their respective local collective bargaining agreements on subcontracting to the extent such terms are consistent with Article IV, Section 2 of this Agreement. Disputes concerning compliance with such local subcontracting provisions for this Project shall be subject to all of the dispute resolution provisions of this Agreement.

Section 7. Security. All employees covered by this Agreement in the employ of the Contractors shall remain members in the applicable signatory Union during the term of this Agreement, and all workers hereinafter employed by the Contractors shall become members of the applicable signatory Union seven (7) days after the date of their employment and shall remain members of the Union during the term of this Agreement. (This clause shall be applied to the extent permitted by law). A Contractor shall not discharge any employee for non-membership in the Union if: (a) he has reasonable grounds for believing that such membership was not available to the employee on the same terms and conditions generally applicable to other members, or (b) he has reasonable grounds for believing that membership was denied or terminated for reasons other than the failure of the employee to tender the periodic dues and initiation fee uniformly required as a condition of acquiring or retaining membership.

Section 8. Liability. It is understood that the liability of the Contractor and the liability of the separate Unions under this Agreement shall be several and not joint. The Unions agree that this Agreement does not have the effect of creating any joint employer status between or among the Owner, Construction Supervisor and/or any Contractor, and neither the Owner nor Construction Supervisor shall assume any liabilities of the Contractors.

Section 9. Abatement of Agreement. As areas of covered work on the Project are accepted by the Owner, this Agreement shall have no further force or effect on such areas except where the Contractor is directed by the Owner to engage in repairs or punch list modifications.

Section 10. Miscellaneous. Notwithstanding any other provision of this Agreement, this Agreement applies and is limited to the recognized and accepted

historical definition of demolition and new construction work under the direction of and performed by the contractor(s), of whatever tier who have contracts awarded for such work on the project. Such work shall include site preparation work and dedicated off-site work except for the contractors and subcontractors specifically excluded in the agreement. Any off-site prefabrication of any building materials, systems and/or components traditionally performed on site shall be performed by the appropriate craft signatory to this agreement and approved by the Owner.

ARTICLE V
LABOR/MANAGEMENT COOPERATION
JOINT ADMINISTRATIVE COMMITTEE

Section 1. The parties to this Agreement shall establish a Project Joint Administrative Committee ("Committee"). This Committee will be a two-person committee comprised of one member each appointed by the Owner (or its designee) and the Unions, with an alternate appointee Union member available to replace the regular appointee when a problem or grievance concerns the regular appointee's Union. Each member of the Committee shall designate an alternate who shall serve in the absence of the member for any purpose contemplated by this Agreement.

Section 2. The Committee shall meet at least quarterly, or more often if special circumstances warrant, to discuss the administration of the Agreement, the progress of the Project, labor/management problems that may arise, and any other relevant matters. Any need for interpretation which might arise from the application of the terms and conditions of the Agreement shall be referred directly to the Committee for resolution.

ARTICLE VI
UNION RECOGNITION AND EMPLOYMENT

Section 1. Pre-Hire Recognition. Each Contractor and subcontractor recognizes the Unions as the sole and exclusive bargaining representatives of all craft and trade employees within their respective jurisdictions working on the Project under the Agreement.

Section 2. Contractor's Right of Selection. Each Contractor shall have the right to determine the competency of all employees, the number of employees

required and shall have the sole responsibility for selecting employees to be laid off. To the extent any training or vendor education is required to fill any position, said training shall be undertaken at no cost or expense to Owner.

Section 3. Union Referral. For local Unions having a job referral system, each Contractor agrees to comply with such system, and the referral system shall be used exclusively by such Contractor, except as modified by this Article. Such job referral system will be operated in a non-discriminatory manner and in full compliance with Federal, state, and local laws and regulations requiring equal employment opportunities and nondiscrimination, and referrals shall not be affected in any way by the rules, regulations, bylaws, constitutional provisions or any other aspects or obligations of union membership, policies or requirements. The Union shall indemnify and hold each Contractor harmless with respect to any claim arising out of how the Union operates and administers its referral system. All hiring procedures, including related practices affecting apprenticeship and training, will be operated so as to facilitate the ability of the contractors to meet any and all equal employment opportunity/affirmative action obligations. The Contractor may reject any referral and request another, different referral; provided, however, the Contractor shall furnish, upon request from the Union, a written explanation for the rejection.

Section 4. Lack of Job Referral System. In the event that a signatory Local Union does not have a job referral system as set forth in Section 3 above, the Contractor shall give the Union a forty-eight (48) hour opportunity to refer applicants. The Contractor shall notify the Union of employees hired from any source other than referral by the Union.

Section 5. Unavailability of Union Referrals. In the event that local Unions are unable to fill any requisitions for qualified employees within forty-eight hours (48) after such requisition is made by the Contractor (Saturdays, Sundays, and Holidays excepted), the Contractor may employ applicants from any other available source. The Contractor shall inform the Union of the name, address and telephone number of any applicants hired from other sources and refer the applicant for the Local Union for dispatch to the Project.

Section 6. Union Best Efforts. The Local Unions will exert their utmost efforts to recruit sufficient numbers of skilled craft workers to fulfill the manpower requirements

of each Contractor, including calls to local unions in other geographic areas when its referral lists have been exhausted. The parties to this Agreement support the development of increased numbers of skilled construction workers from the residents of the area of the Project. Toward that end, the Unions agree to encourage the referral and utilization, to the extent permitted by law and the hiring hall procedures, of qualified residents as journeymen, apprentices and trainees on the Project.

ARTICLE VII

GRIEVANCE ARBITRATION PROCEDURE

Section 1. This Agreement is intended to provide close cooperation between management and labor. Each of the Unions will assign a representative to this Project for the purpose of completing the construction of the Project economically, efficiently, continuously, and without interruptions, delays, or work stoppages.

Section 2. The Contractors, Unions, and the employees, collectively and individually, realize the importance to all parties to maintain continuous and uninterrupted performance of the work of the Project, and agree to resolve disputes in accordance with the grievance-arbitration provisions set forth in this Article.

Section 3. Any question or dispute arising out of and during the term of this Agreement (other than trade jurisdictional disputes) shall be considered a grievance and subject to resolution under the following procedures:

Step 1. (a) When any employee subject to the provisions of this Agreement feels he or she is aggrieved by a violation of this Agreement, he or she, through his or her local union business representative or job steward, shall, within five (5) working days after the occurrence of the violation, give notice to the work-site representative of the involved Contractor stating the provision(s) alleged to have been violated. The business representative of the local union or the job steward and the work-site representative of the involved Contractor shall meet and endeavor to adjust the matter within three (3) working days after timely notice has been given. The representative of the Contractor shall keep the meeting

minutes and shall respond to the Union representative in writing at the conclusion of the meeting but not later than twenty-four (24) hours thereafter. If they fail to resolve the matter within the prescribed period, the Local Union may, within forty-eight (48) hours thereafter, pursue Step 2 of the Grievance Procedure, provided the grievance is reduced to writing, setting forth the relevant information concerning the alleged grievance, including a short description hereof, the date on which the grievance occurred, and the provisions of the Agreement alleged to have been violated.

- (a) Should the Local Union(s) or the Project Contractor or any Contractor have a dispute with the other party and if, after conferring, a settlement is not reached within three (3) working days, the dispute may be reduced to writing and proceed to Step 2 in the same manner as outlined herein for the adjustment of an employee complaint.

Step 2. The International Union Representative and the involved Contractor shall meet within seven (7) working days of the referral of a dispute to this second step to arrive at a satisfactory settlement thereof. Meeting minutes shall be kept by the Contractor. If the parties fail to reach an agreement, the dispute may be appealed by the Union, in writing, in accordance with the provisions of Step 3.

Step 3. (a) If the grievance has been submitted but not adjusted under Step 2, either party may request in writing, within seven (7) calendar days thereafter, that the grievance be submitted to an Arbitrator mutually agreed upon by them. The Contractor and the involved Union shall attempt mutually to select an arbitrator, but if they are unable to do so, they shall request the Federal Mediation and Conciliation Services (FMCS) to provide them with a list of arbitrators from which the Arbitrator shall be selected. The rules of FMCS shall govern the conduct of the arbitration hearing. The decision of

the Arbitrator shall be final and binding on all parties. The fee and expenses of such Arbitration shall be borne equally by the Contractor and the involved Local Union(s).

Section 4. Failure of the grieving party to adhere to the time limits established herein shall render the grievance null and void. Failure of the Contractor to adhere to the time limits established herein shall result in the grievance being sustained. The time limits established herein may be extended only by written consent of the parties involved at the particular step where the extension is agreed upon. The Arbitrator shall have the authority to make decisions only on issues presented to him or her, and he or she shall not have authority to change, amend, add to or detract from any of the provisions of this Agreement.

Section 5. The Owner shall be notified of all actions at Steps 2 and 3 and shall, upon their request, be permitted to participate in all proceedings at these steps.

ARTICLE VIII

JURISDICTIONAL DISPUTES

Section 1. The assignment of work will be the responsibility of the Contractor performing the work involved and such work assignments will be in accordance with decisions issued under the Plan for the Settlement of Jurisdictional Disputes in the Construction Industry (the "Plan"), or any successor Plan, adopted by the National Building and Construction Trades Department.

Section 2. All jurisdictional disputes on this Project, between or among Building and Construction Trades Unions and employers, parties to this Agreement, shall be settled and adjusted according to the present Plan established by the Building and Construction Trades Department or any other plan or method of procedure that may be adopted in the future by the Building and Construction Trades Department. Decisions rendered shall be final, binding and conclusive on the Contractors and Unions parties to this Agreement.

Section 3. All jurisdictional disputes shall be resolved without the occurrence of any strike, work stoppage, or slow-down of any nature, and the Contractor's assignment shall be adhered to until the dispute is resolved. Individuals violating this section shall be subject to immediate discharge.

Section 4. Each Contractor will conduct a pre job conference with the appropriate Council prior to commencing work. The Owner will be advised in advance of all such conferences and may participate if they wish.

ARTICLE IX

MANAGEMENT'S RIGHTS

Section 1. Exclusive Owner - Workforce. Except as otherwise provided in this Agreement, the Owner (or its designee) and the Contractors retain the authority for the management of their operations and workforces.

Section 2. Materials, Design, Machinery, Equipment. There shall be no limitation or restriction by a signatory Union upon a Contractor's choice of materials or design, nor, regardless of source or location, upon the full use and utilization of equipment, machinery packaging, pre-cast, pre-fabricated, pre-finish, or pre-assembled materials, tools or other labor saving devices. The on-site installation or application of all items shall be performed by the craft having jurisdiction of such work; provided, however, that installation of specialty items may be performed by employees employed under this Agreement who may be directed by other personnel in a supervisory role, in circumstances requiring special knowledge of the particular items.

Section 3. New Technology, Equipment. The use of new technology, equipment, machinery, tools and/or labor saving devices and methods of performing work may be initiated by any Contractor from time to time during the Project. The Union agrees that it will not in any way restrict the implementation of such new devices or work methods.

Section 4. Disputes. If there is any disagreement between any Contractor and the Union concerning the manner or implementation of such device or method of work, the implementation shall proceed as directed by the Contractor, and the Union shall have the right to grieve and/or arbitrate the dispute as set forth in Article VII of this Agreement.

ARTICLE X

WORK STOPPAGES

Section 1. No Strikes or Work Disruptions. There shall be no strike, sympathy strike, jurisdictional strike, recognitional strike, slowdown, sabotage, work to

rule, sickout, sit down, picketing of any type (including informational picketing), handbilling, boycott, interruption of work or any disruptive activity that interferes with or interrupts in any way work on the Project. The applicable local union shall not sanction, aid or abet, encourage or continue any work stoppage, strike, picketing or other disruptive activity which violates this Article and shall undertake all reasonable means to prevent or to terminate any such activity. No employee shall engage in activity which violates this Article. Any employee who participates in or encourages any activity which violates this Article shall be subject to disciplinary action, including discharge, and if justifiably discharged for the above reasons, shall not be eligible for rehire on the same project for a period of not less than ninety (90) days. Further, if the Local Union is unable to provide qualified replacements for those employees who are in violation of this Article by the beginning of the next shift, the Employer is free to hire from any source.

Section 2. Union Responsibilities. The Local Union shall not be liable for acts of employees for which it has no responsibility. The principal officers of the Local Union will immediately instruct, order and use their best efforts to cause the members of the Local Union they represent to cease any violations of this Article. If it complies with this obligation, the Local Union shall not be responsible for unauthorized acts of employees it represents.

ARTICLE XI

WAGES AND BENEFITS

Section 1(A). Wages. All employees covered by this Agreement shall be classified in accordance with work performed and paid 100% of the wages and 100% of the benefits as established in the respective Craft's Collective Bargaining Agreement and any subsequent modifications thereto. The Contractor, upon request, shall provide the Unions and Owner with substantiation that wages and benefits are being paid on the Project. The Unions shall provide the Owner, and any Contractor or subcontractor that is party to this Agreement, with wage, fringe benefit and dues reporting forms.

Section 1(B). Wage Premiums and Additives. The Council and the signatory unions agree that no PLA-specific wage increases, premiums or additives appearing in any local collective bargaining agreement shall have any application to the wage

rates appearing in Section 1(A) above.

Section 2. Payment of Benefits/Contributions. Each Contractor will also pay all required contributions in the amounts required by Section 1 of this Article to the established employee benefit funds that accrue to the direct benefit of the employees (such as pension and annuity, health and welfare, vacation, apprenticeship, training funds). With respect to contributions required in this Section to Employer-Union jointly trusted funds, the Contractor adopts and agrees to be bound by the written terms of the legally established trust agreement specifying the detailed basis on which payments are to be made into, and benefits paid out of, such Trust Funds. The Contractor authorizes the parties to such Trust Funds to appoint Trustees and successor Trustees to administer the Trust Funds and hereby ratifies and accepts the Trustees so appointed as if made by Contractor.

Section 3. Non-Affiliated Labor Organizations. The Contractor shall deduct from each employee's wages all uniform dues and working assessments set forth in the Employee's Local Collective Bargaining Agreement. If a labor organization is not affiliated with the Council, and supplies its members or referrals for work on the Project, such labor organization shall pay to the Council the dues and assessments it would owe the Council if affiliated, for all periods during which the labor organization has members or referrals working on the Project. Any disputes under this paragraph shall be resolved exclusively between the labor organization and the Council by using the grievance procedure appearing in Article VII, as provided herein. All grievances shall be reduced to writing within thirty (30) days of the date on which the aggrieved party discovered the dispute. The grievance shall be initiated at Article VII, Section 3, Step 3.

ARTICLE XII

LOCAL UNION NEGOTIATIONS DURING THE PENDENCY OF THE AGREEMENT

Section 1. All parties to this Agreement understand and acknowledge that some crafts who will be working on the Project are covered by local collective bargaining agreements that will expire prior to the projected completion of the Project. All parties understand and agree that irrespective of whether such local collective bargaining agreement negotiations are successful or unsuccessful, there shall be no strike,

sympathy strike, jurisdictional strike, recognitional strike, slowdown, sabotage, work to rule, sickout, sit down, picketing of any type (including informational picketing), handbilling, boycott, interruption of work or any disruptive activity that interferes with or interrupts in any way work on the Project by any Union involved in such local negotiations, or by any of its members, nor shall there be any lockout by a Contractor on the Project affecting such union or its members during the course of such negotiations. Irrespective of the status of any such local collective bargaining agreement negotiations, the affected Union and all of its members will observe and fully comply with the provisions of this Agreement. Should any Local Union fail or refuse to provide and/or refer qualified employees for work on the Project during an economic strike, any affected Contractor shall be permitted to utilize the procedures appearing in Article VI, Section 5 of this Agreement.

Section 2. Wage/Benefit Increases. Should a craft covered by this Agreement negotiate an increase in wages or an increase in benefits with any Contractor to become effective during the term of the Project, those wage and/or benefit increases shall be paid by the affected Contractor, as of the effective date of those increases, to those employees in that craft performing work covered by this Agreement.

ARTICLE XIII

HOURS OF WORK, OVERTIME, SHIFTS AND HOLIDAY

Section 1. Work Day and Work Week. Except as provided in Section 4, the first shift shall consist of eight (8) or ten (10) hours per day between the hours of 6:00 a.m. and 5:30 p.m., plus one-half (1/2) hour unpaid for lunch, approximately mid-way through the shift. Forty (40) hours per week shall constitute a regular week's work, whether consisting of five (5) eight (8) hour days, or four (4) ten (10) hour days. The work week will start on Monday and conclude on Sunday. A uniform starting time will be established for all crafts on each project or segment of the work. Nothing herein shall be construed as guaranteeing any employee eight (8) or ten (10) hours per day or forty (40) hours per week. The Union(s) shall be informed of the work starting time set by the contractor at the pre job conference which may be changed thereafter upon three (3) days' notice to the Union(s) and the employees. A second shift, if used, shall consist of eight hours between 3:00 p.m. and 1:00 a.m.; a third shift, if used, shall

begin between 10:00 p.m. and 1:00 a.m. For purposes of Section 3, the third shift shall be considered as part of the prior day's work.

Section 2. Starting Times. Employees shall be at their place of work at the starting time and shall remain at their place of work (as designated by the Contractor) performing their assigned functions until quitting time, which is defined as the scheduled end of the shift. The parties reaffirm their policy of a fair day's work for a fair day's wage. There shall be no pay for time not worked unless the employee is otherwise engaged at the direction of the Contractor.

Section 3. Overtime. Overtime shall be defined as all hours worked in excess of forty (40) hours in a work week or, for 8 hour shifts, in excess of eight (8) hours per day; or for 10 (ten) hour shifts for work in excess of 10 hours per day; such work and work performed on Saturdays shall be paid at one and one-half times the straight time rate of pay. However, in scheduled four (4) day/ten hour shift work weeks, Friday may be scheduled as a "makeup" day at straight time to make up for a day lost (Monday through Thursday) due to inclement weather. In addition, if a "make-up" day is scheduled, all employees directed to work on such day will be guaranteed a minimum of four (4) hours work or pay. In any week in which employees on the Project are scheduled on four/ten hour shifts, an employee whose first day of work on the Project begins on Wednesday or later day of the schedule shall be paid, during the first week of his employment only, time-and-one-half for all hours worked in excess of eight in a day or each day he works during said week. Work on Sundays and holidays shall be at double time. There shall be no restriction on any contractor's scheduling of overtime or the non-discriminatory designation of employees who will work. The contractor shall have the right to schedule work so as to minimize overtime. There shall be no pyramiding of overtime pay under any circumstances.

Section 4. Shifts.

(a) Shift work may be performed at the option of the Contractor(s) upon three (3) days' prior notice to the Union and shall continue for a period of not less than five (5) working days. Saturdays and Sundays, if worked, may be used for establishing the five (5) day minimum work shift. If two shifts are worked, each shall consist of eight (8) hours of continuous work exclusive of a one-half (½) hour non-paid lunch period. Any third shift shall consist of seven (7)

hours of continuous work exclusive of one-half (½) hour non-paid lunch period for eight (8) hours pay. A premium of \$.25 per hour shall be paid for work on the second shift and \$.50 per hour for work on the third shift.

- (b) The Contractor may establish a work week of four (4) consecutive ten (10) hour work days (exclusive of one-half (½) hour unpaid lunch, approximately midway through the shift) between Monday through Thursday.

Section 5. Minimum Pay. An employee who reports for work at the regular starting time and for whom no work is provided shall receive pay equivalent to two (2) hours at the applicable hourly rate, provided the employee at the employer's discretion remains available for work. Any employee who reports for work and for whom work is provided shall be paid for actual time worked but not less than two (2) hours. It will not be a violation of this agreement when the employer considers it necessary to shut down to avoid the possible loss of human life, because of an emergency situation that could endanger the life and safety of an employee. In such cases, employees will be compensated only for the actual time worked. In the case of a situation described above where the employer requests employees to remain available for work, the employees will be compensation for such time. If a project is shut down because of weather, employees, who report for work, shall be paid actual time worked but not less than two (2) hours. Procedures for prior notification of work cancellation shall be determined at the pre-job conference. The provisions of this section are not applicable where the employee voluntarily quits or lays off.

Section 6. Holidays. Holidays shall be New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Day after Thanksgiving Day, and Christmas Day. A holiday falling on Saturday shall be observed on the preceding Friday. A holiday falling on Sunday shall be observed on the following Monday.

Section 7. Meal Period. The Contractor will schedule a meal period of not more than one-half hour duration at the work location at approximately the mid-point of the scheduled work shift (4 hours in a five day work week, 5 hours in a four-day work week), consistent with Section 1; provided, however, that the Contractor may, for efficiency of the operation, establish a schedule which coordinates the meal periods of two or more crafts. If an employee is required to work through his meal period, he shall

be compensated for the time worked at the applicable overtime rate and the employee shall, when work permits, eat his lunch "on the fly".

Section 8. No Organized Work Breaks. There will be one (1) break during the first four (4) hours of a shift which shall be taken at the employee's work station. Individual nonalcoholic beverage containers will be permitted at the employee's work station.

Section 9. Helmets to Hardhats.

- (a) The Employers and the Unions recognize a desire to facilitate the entry into the building and construction trades of veterans who are interested in careers in*the building and construction industry. The Employers and Unions agree to utilize the services of the Center for Military Recruitment, Assessment and Veterans Employment (hereinafter "Center") and the Center's "Helmets to Hardhats" program to serve as a resource for preliminary orientation, assessment of construction aptitude, referral to apprenticeship programs or hiring halls, counseling and mentoring, support network, employment opportunities and other needs as identified by the parties.
- (b) The Unions and Employers agree to coordinate with the Center to create and maintain an integrated database of veterans interested in working on this Project and of apprenticeship and employment opportunities for this Project. To the extent permitted by law, the Unions will give credit to such veterans for bona fide, provable past experience.

ARTICLE XIV

APPRENTICES

Section 1. Need For. The parties recognize the need to maintain continuing support of programs designed to develop adequate numbers of competent workers in the construction industry. The Contractor(s) will accordingly employ apprentices in their respective crafts to perform work on the Project within the apprentice's capabilities.

Section 2. Ratios. The Union agrees to cooperate with the Contractor in furnishing qualified apprentices as requested and if available. Apprentices shall

perform the work of their craft in accordance with the ratios and terms in their governing collective bargaining agreements. To the extent requested by Owner, the Contractor(s) may use the maximum number of apprentices permitted by local collective bargaining agreements.

ARTICLE XV

DRUG AND ALCOHOL POLICY

Section 1. Drug and Alcohol Policy. All parties understand and agree that a drug and alcohol policy, approved by the Council, will be in force for all work performed under the Agreement. The drug and alcohol policy will prohibit the use, sale, transfer, purchase and/or possession of a controlled substance, alcohol and/or firearms while on the Project's premises and will require testing of employees. The drug and alcohol policy, attached hereto as Appendix 2, is incorporated into and made part of this Agreement and is implemented for all Contractors and employees working on the Project.

ARTICLE XVI

NON-DISCRIMINATION

Section 1. Policy. It is the continuing policy of the Owner, the Contractors and the Unions that the provisions of this Agreement shall be applied without discrimination because of age, race, sex, color, religion, creed, national origin, sexual orientation or any other basis prohibited by applicable law.

ARTICLE XVII

SOLE AND COMPLETE AGREEMENT

Section 1. The parties agree that this Agreement constitutes the sole and complete agreement between them governing the rates of pay and working conditions of the construction employees working on the Project. This Agreement settles all demands and issues on the matters subject to collective bargaining and that it shall not be modified or supplemented in any way except by written agreement executed by the Owner and all parties.

ARTICLE XVIII

SEPARABILITY AND SAVINGS CLAUSE


Section 1. Intent of Parties. If any article or section of this Agreement shall be held invalid by law or by a tribunal of competent jurisdiction, or if compliance with or enforcement of any article should be restrained pending a final determination as to its

validity, the remainder of this Agreement shall not be affected and shall remain in full force and effect. In the event that any article or section is held invalid, the parties hereto shall, upon the request of the Unions, enter into collective bargaining negotiations for the purpose of arriving at a mutually satisfactory replacement for such article during the period of invalidity or restraint. If the Owner and the Council cannot agree on a mutually satisfactory replacement, either party shall be permitted to submit its demand to formal interest arbitration.

Section 2. Force of Agreement. The parties recognize the right of the Owner to withdraw, at its absolute discretion, the utilization of this Agreement as part of any bid specification should a court of competent jurisdiction issue any order which could result, temporarily or permanently, in delay of the bidding, awarding, and/or construction work on the Project. Notwithstanding such an action by the Owner, or such court order, the parties agree that the Agreement shall remain in full force and effect on the Project, to the maximum extent legally possible. It is hereby agreed that this Agreement covers all of the signatory local unions listed below.

Section 3. Delegation. The Owner, in its sole and absolute discretion has the right to delegate its duties hereunder to a representative and/or designee who may be either an employee of Owner or a third party with whom Owner has contracted for contractor services.


**OWNER
CITY OF CANTON**


Director of Public Services
2-13-18

APPROVED AS TO FORM:


City of Canton Law Director

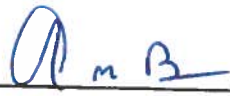
**EAST CENTRAL OHIO BUILDING &
CONSTRUCTION TRADES COUNCIL,
AFL-CIO**


PRESIDENT

BRICKLAYERS LOCAL 6

By: _____
Name: _____
Title: _____
Date: _____

ELECTRICIANS LOCAL NO. 540

By: 
Name: ARON M. BROWN
Title: BUSINESS MANAGER / F.S.
Date: 3/1/2018

**GENERAL TRUCK DRIVERS &
HELPERS UNION LOCAL NO. 92**

By: _____
Name: _____
Title: _____
Date: _____

GLAZIERS LOCAL NO. 1162

By: _____

Name: _____

Title: _____

Date: _____

**HEAT & FROST INSULATORS AND
ASBESTOS WORKERS LOCAL
NO. 84**

By: _____

Name: _____

Title: _____

Date: _____

**INDIANA/KENTUCKY/OHIO
REGIONAL COUNCIL OF
CARPENTERS**

By: Kevin M. Ennis II

Name: Kevin M Ennis II

Title: Senior Representative

Date: 3/7/18

IRONWORKERS LOCAL NO. 550

By: William V. Therer II
Name: William V. Therer II
Title: Business Manager
Date: 3-6-18

LABORERS LOCAL NO. 1015

By: Jake Croston Jr
Name: Jake Croston Jr
Title: Business Manager
Date: 3/8/18

**OPERATIVE PLASTERERS' AND
CEMENT MASONS LOCAL NO. 109**

By: Greg Daniels
Name: BREG Daniels
Title: Business Manager
Date: 3-12-18

PAINTERS LOCAL NO. 603

By: _____

Name: _____

Title: _____

Date: _____

PLUMBERS, PIPEFITTERS AND REFRIGERATION LOCAL NO. 94

By: Dave Kirven

Name: DAVE KIRVEN

Title: BUSINESS MANAGER FST

Date: 3/1/2018

ROOFERS, LOCAL UNION NO. 88

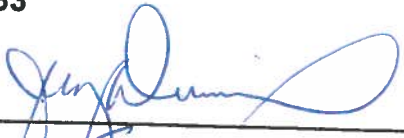
By: Barbara A. Dixon

Name: Barbara A. Dixon

Title: BUSINESS MANAGER

Date: 3-6-2018

**SHEET METAL WORKERS LOCAL
NO. 33**

By: 
Name: GEORGE DURIEX
Title: BUSINESS AGENT
Date: 3/17/18

**SPRINKLER FITTERS LOCAL
NO. 669**

By: _____
Name: _____
Title: _____
Date: _____

APPENDIX 1
LETTER OF ASSENT TO THE PROJECT LABOR AGREEMENT

FOR THE RIDGEWOOD EAST WATERLINE AND ROADWAY REPLACEMENT
PROJECT, PART 1 AND PART 2

Pursuant to Article I, Section 1 of the Project Labor Agreement (the "Agreement") for the Ridgewood East Waterline and Roadway Replacement Project, Part 1 and Part 2 the undersigned party hereby agrees that it will comply with and be bound by all of the terms and conditions of the Agreement and agrees to all approved amendments or revisions thereto.

This Letter of Assent shall ONLY apply to the above-referenced Project and shall remain in effect for the duration of the above-referenced Project, after which this understanding will automatically terminate without further notice.

For the Contractor (or Subcontractor of whatever tier):

Name of Contractor/Subcontractor: _____

Name and Signature of Authorized Person:

(Print Name) _____

(Title) _____

(Signature) _____

(Phone #) _____

(Date) _____

APPENDIX 2
EMPLOYEE DRUG AND ALCOHOL TESTING POLICY
SPECIFICATIONS

The Owner is committed to providing a safe workplace for the workers assigned the Project, promoting high standards of employment health, and fostering productivity that satisfies its quality expectations. Consistent with the intent and spirit of this commitment, the Owner and ECOB & CTC have established a substance abuse testing specification for the Project with the goal of maintaining a work environment that is free from the effects of the use of illegal drugs and alcohol. The Owner will implement the terms of this policy.

This specification is not intended as a substitute for the Contractors' complete written substance abuse policy. Normally, such policies include other important features, including, but not limited to, an employee education and awareness Program, a supervisor training program and an employee assistance program.

The policy for this Project requires that any construction employee entering the project site will comply with the substance abuse testing requirements as outlined in this section. The Owner reserves the right to amend this specification upon written notice to the Contractor and the Unions on the Project. The parties to this agreement shall recognize the Drug Free Work Site Program as implemented through participating Unions and/or Contractors as administered by the contractor, or for contractors who are not signatory to agreements with signatory unions belonging to ECOB & CTC, and their core employees, an equivalent program that meets the specifications, contractual requirements, and testing requirements as set forth in this Appendix 1.

CONTRACTUAL REQUIREMENTS

All Contractors must have and enforce a written Substance Abuse Program incorporating the testing requirements, term, and conditions set forth in this specification. This specification is applicable to all employees, current and prospective, in order to be eligible to perform work at the Project. The Contractors must comply with the specification. Suppliers, vendors, and visitors are subject to confirmation of their abstinence from the possession or use of substances indicated in this specification. A copy of each contractor's substance abuse program must be

submitted to the Owner for approval prior to commencement of any work on the Project site.

The substance abuse program must apply to all employees working on the Project and subcontractors' of any of tier working on the Project site. This includes workers, new hires, replacement workers, and supervisory personnel. No employee or prospective employee of a Contractor shall be permitted to work on the Project site unless such employee has submitted to testing by this specification and unless the results of such testing are negative as hereinafter defined. The Contractor must provide the Owner with a Monthly Summary Report of the Substance Abuse Program compliance.

All Contractors must train their respective employees in methods that will allow them to recognize substance abusers. Supervisory Employees of the Owner or its subcontractor shall be trained to take action, and to confront a substance abuser in a manner consistent with generally accepted safety-training procedures.

The cost of implementing the Substance Abuse program shall be borne by each respective Contractor affected by this specification.

Suppliers, vendors, and visitors must become signatory to the terms of this specification and their abstinence from substance abuse, and their continued avoidance of violations of the specification at the project site. Furthermore, in the event of an incident and/or accident occurrences involving suppliers, vendors, and/or visitors, the same agrees to submit to the substance abuse testing when requested. Refusal to comply would be grounds to have the supplier, vendor, or visitor permanently barred from the Project site by regulators.

TESTING REQUIREMENTS

The Project requires:

- Post-offer/Pre-engagement drug and alcohol testing.
- Testing for reasonable suspicion of illegal drug use or alcohol use.
- Post accident and post incident drug and alcohol testing upon reasonable suspicion.
- Drug testing following discovery of illegal or unauthorized drugs or paraphernalia as creating reasonable suspicion.

All Prime Contractors must perform post-offer/pre-engagement, and post

accident/incident testing upon reasonable suspicion, as follows:

- a. All drug testing must be conducted by a National Institute of Drug Abuse (NIDA) certified laboratory with test results interpreted by a licensed medical review officer (MRO).
- b. The initial screen tests for alcohol shall be performed by using either a saliva test or breathalyzer test comparable to the type used by state or local law enforcement officials. Furthermore, alcohol confirmatory tests shall be performed by using either blood alcohol test or a Breathalyzer test comparable to the type used by state or local law enforcement officials.
- c. Evidence of the negative test results of individual employees required by this specification shall be furnished to the Owner prior to the commencement of work by the individual employee and promptly after performance of any subsequent testing required by this specification. Acceptable negative test result format.
 - A certificate signed by the testing laboratory, setting forth the nature and results of performed; or
 - An identification card signed by the respective Prime Contractor and issued to the individual employee, setting forth as reported on a certificate issued by the testing laboratory. The name of the testing laboratory shall also appear on the identification card; provided the affected employee authorizes the issuance of such identification card.

COMPLIANCE PROCEDURE

The Owner reserves the right to audit any substance abuse program required by this specification to verify compliance results within twenty-four (24) hours of notification of the intent to audit. The Owner shall have free right of access to all relevant records of the Prime Contractor and their subcontractors and supplies for this purpose, provided such record disclosures are within the scope of the States guidelines pertaining to confidentiality of employee records.

The Contractor's pre-engagement employees who receive a positive test result shall immediately leave the Project Site. Transportation of employees receiving the positive test result is the direct responsibility of the employing Prime Contractor, including employees of its subcontractors. Furthermore, pre-engagement employees

receiving a positive test shall not be permitted to return to the Project Site earlier than 90 days from the date of the positive test. At this time the employee may begin the process outlined by this specification again.

DEFINITIONS/ CONFIDENTIALITY/RULES- DISCIPLINARY ACTIONS-
GRIEVANCE PROCEDURES

1. DEFINITIONS:

- (a) Company Premises - the term "Company Premises" as used in this policy includes all property, facilities, land, building, structures, automobiles, trucks and other vehicles owned, leased or used by the Contractor on the Project. Construction job sites for which the Contractor has responsibility are included.
- (b) Prohibited Items & Substances - Prohibited substances include illegal drugs (including controlled substances, look alike drugs and designer drugs, alcoholic beverages, and drug paraphernalia in the possession of or being used by an employee on the job.
- (c) Employee - Individuals, who perform work for the Contractor, including, but not limited to management, supervision, engineering, craft workers and clerical personnel.
- (d) Accident - Any event resulting in injury to a person or property to which an employee, or contractor/contractor's employee, contributed as a direct or indirect cause.
- (e) Incident - An event which has all the attributes of an accident, except that no harm was caused to person or property.
- (f) Reasonable Cause - Reasonable cause shall be defined as tardiness, excessive absenteeism, and erratic behavior such as noticeable imbalance, incoherence, and disorientation.

2. CONFIDENTIALITY

- (a) All parties to this policy and program have only the interests of employees in mind; therefore, encourage any employee with a substance abuse problem to come forward and voluntarily accept our assistance in dealing with the illness. An employee assistance program will provide guidance and direction for you during your recovery period. If you volunteer for help, the Contractor

will make every reasonable effort to return you to work upon your recovery. The Contractor will also take action to assure that your illness is handled in a confidential manner.

- (b) All actions taken under this policy and program will be confidential and disclosed only to those with a "need to know."
- (c) When a test is required, the specimen will be identified with a code number, not by name, to insure confidentiality of the donor. Each specimen container will be properly label and made tamper proof. The donor must witness this procedure.
- (d) Unless an initial positive result is confirmed as positive, it shall be deemed negative and reported by the laboratory as such.
- (e) The handling and transportation of each specimen will be properly documented through the strict chain of custody procedures.

3. RULES - all employees must report to work in a physical condition that will enable them to perform their jobs in a safe and efficient manner. Employees shall not:

- (a) Use, possess, dispense or receive prohibited substances on or at the Project job site; or
- (b) Report to work at or on the Project with any measurable amount of prohibited substances in their system.

4. DISCIPLINE - When the Contractor has reasonable cause to believe an employee is under the influence of a prohibited substance, for reasons of safety, the employee may be suspended until test results are available. If no test results are received after three (3) working days, the employee, if available, shall return to work with back pay. If the test results prove negative, the employee shall be reinstated with back pay. In all other cases:

- (a) Applicants testing positive for drug use will not be hired.
- (b) Employees who have not voluntarily come forward, and who test positive for a drug use, will be terminated.
- (c) Employees who refuse to cooperate with testing procedures will be terminated.
- (d) Employees found in possession of drugs or drug paraphernalia will be terminated.

(e) Employees found under the influence of alcohol while on duty, or while operating a company vehicle, will be subject to termination.

5. PRESCRIPTION DRUGS - Employees using a prescribed medication which, in their physician's opinion, may impair the performance of their duties, either mental or motor functions, must immediately inform the supervisor of such prescription drug use if instructed by their physician to do so. For the safety of all employees, the Contractor will consult with you and your physician to determine if a reassignment of duties is necessary. The Contractor will attempt to accommodate your needs by making an appropriate reassignment. However, if a reassignment is not possible, you will be placed on temporary medical leave until released as fit for duty by the prescribing physician.