



City of Wheaton, Illinois

City of Wheaton
303 W. Wesley Street
Wheaton, IL 60187-0727
630-260-2000

www.wheaton.il.us

GROUP EXHIBIT A

NOTICE TO BIDDERS

CITY OF WHEATON

Description: 2017 WEST STREET WATER MAIN REPLACEMENT PROJECT

Requesting: Invitation to Bid (2 original copies compiled as described within)

Issue Date: Wednesday, May 24, 2017

Mandatory Pre-Bid Meeting: None

Last Date for Questions: Wednesday, May 31, 2017 at 12:00 p.m.

Sealed Proposal Submittal Due: Wednesday, June 7, 2017 prior to 11:00 a.m. local time

Bid Opening Location: Wednesday, June 7, 2017 at 11:00 a.m. local time
Wheaton City Hall, 303 West Wesley St., Wheaton, IL
Council Chambers, 2nd Floor

Project Completion: September 15, 2017

Note: The Prevailing Wage Act (820 ILCS 130/1-12) DOES apply

Contacts for this bid: LStyczen@wheaton.il.us

All required contractor pre-qualification documents, plans and specifications are available only online at the City of Wheaton website www.wheaton.ilus/departments/purchasing beginning May 24, 2017. All questions regarding this project bid are to be addressed to the procurement Officer at the Wheaton City Hall, 303 W. Wesley Street, Wheaton, Illinois, via e-mail at LStyczen@Wheaton.il.us.

Contact with anyone other than the Procurement Officer for matters relative to this solicitation during the solicitation process is prohibited.

2017 WEST STREET WATER MAIN REPLACEMENT PROJECT

GENERAL INSTRUCTIONS REGARDING THE SOLICITATION OF CONTRACTED SERVICES

Solicitations are open to all business firms actively engaged in providing the materials, equipment, and services specified and inferred. Active engagement will be verified via references.

1) SOLICITATION PROCESS

a) Documents:

- i) The City of Wheaton's website, www.wheaton.il.us/bids/ is the official source for all documents related to this solicitation. The City is not responsible for documents distributed by any other source.
- ii) It is the responsibility of the Bidder to seek clarification of any requirement that may not be clear. This includes a review of all solicitation documents.
- iii) All questions concerning this solicitation shall be submitted via e-mail to the attention of the Procurement Officer by the last date for questions as reflected on the cover page of this document. A written response in the form of a public addendum will be published on the City's website, www.wheaton.il.us/bids/.
- iv) Any interpretation, correction or change of the solicitation documents will be made by published Addendum. Interpretations, corrections, and changes to the solicitation documents made in any other manner will not be binding. All addenda will be published on the City's website at <http://www.wheaton.il.us/bids/>. It is up to the Bidder to check this site for the most current addendum.
- v) Bidders shall acknowledge the receipt of any addendum.

b) The Cone of Silence:

- i) The Cone of Silence is designed to protect the integrity of the procurement process by shielding it from undue influences.
- ii) During the period beginning with the issuance of the solicitation document through the execution of the award document, bidders are prohibited from all communications regarding this solicitation with City staff, City consultants, City legal counsel, City agents, or elected officials.
- iii) Any attempt by a bidder to influence a member or members of the aforementioned may be grounds to disqualify the bidder from participation in this solicitation.

c) Exceptions to the Cone of Silence:

- i) Written communications directed to the Procurement Officer
- ii) All communications occurring at pre-bid meetings
- iii) Oral presentations during finalist interviews, negotiation proceedings, or site visits
- iv) Oral presentations before publicly noticed committee meetings
- v) Contractors already on contract with the City to perform services for the City are allowed discussions necessary for the completion of an existing contract.
- vi) Procurement of goods or services for Emergency situations

2) INVESTIGATION

- a) It shall be the responsibility of the Bidder to make any and all investigations necessary to become thoroughly informed of what is required and specified in the solicitation.
 - i) If the site of the work is an area restricted from the general public, a pre-bid meeting will be provided for all potential bidders to perform this inspection.
 - ii) If the site of the work is an area open to the general public, the potential bidder may perform their inspection at a time of their choosing.
- b) Bidder shall inspect in detail the site of the proposed work and familiarize himself with all the local conditions affecting the work and the detailed requirements of delivery, installation, or construction.
- c) No plea of ignorance by the bidder of conditions that exist or that may hereafter exist, because of failure or omission on the part of the bidder to make the necessary examinations and investigations, will be accepted as a basis for varying the requirements of the City or the compensation to the bidder.

3) OFFERS

- a) Exceptions to specifications, requirements, Terms and Conditions must be clearly identified.
 - b) Offers including goods or equipment must include: Manufacturer's warranties and/or guarantees
 - c) Offers including service during the warranty/guarantee period must include, in writing, any restrictions, and/or associated costs.
 - d) QUOTES are to be submitted via fax or e-mail. Verbal offers will not be accepted.
 - e) FORMAL OFFERS must be on the forms provided and compiled in the order stated. Do not use binders, folders, tabs, or papers larger than 8.5 x 11.
 - f) Delivery of an offer is acceptance of the City's requirements. Offers containing terms and conditions contrary to those specified, or taking exception to any of the Special Terms and Conditions, General Terms and Conditions, Specifications, or Addenda as stated by the City may be considered non-responsive.
 - g) The City shall not accept an offer which is based upon any other offer, contract, or reference to any other document or numbers not included in the solicitation documents.
- 4) ORDER OF PRECEDENCE
- a) Wherever requirements are in conflict, the order of precedence shall be as follows: City Contract, City Specifications, City Special Terms, and Conditions; City General Terms and Conditions.
 - b) City requirements take precedence over Bidder's offer.
- 5) SIGNATURES AS OFFER
- a) Under the conditions of the Uniform Commercial Code, the signing of the submittal by the bidder constitutes an offer. If accepted by the City, the offer becomes part of the contract.
 - b) Offers by:
 - i) Individuals or sole proprietorships shall be signed by a person with the authority to enter into legal binding contracts. Said individual shall use his usual signature.
 - ii) Partnerships shall be signed with partnership name by one of the members of the partnership, or an authorized representative, followed by the signature and title of the person signing.
 - iii) By corporations shall be signed with the name of the corporation, followed by the signature and title of person authorized to bind it in the matter.
- 6) WITHDRAWAL OF OFFERS
- a) Offers may be withdrawn at any time prior to the scheduled opening or due date. Requests to withdraw an offer shall be in writing, properly signed, and received by the Procurement Officer prior to the due date.
 - b) Offers may not be withdrawn after the due date without the approval of the Procurement Officer.
 - c) Negligence in preparing an offer confers no right of withdrawal after opening / due date.
- 7) TIMEFRAME AND CONSEQUENCES
- a) Offers must be received before the designated time.
 - b) Offers received after the designated time will be returned to the sender without review. Offers received late that may be attributed to delays by overnight delivery services, or by delivery services trying to deliver when offices are closed, will be considered late and returned to the sender.
 - c) Unless otherwise specified in the solicitation, offers shall be binding for ninety (90) calendar days following due date.
- 8) PUBLIC OPENINGS
- a) Formal offers by sealed envelope will be publicly opened at the time and location stated. The Procurement Officer shall read the name of the bidder, offered price, and note if deviations are stated. after the opening an apparent low bid will be announced. Award will be based on analysis of costs, deviations, city budget, and approval by City Council.
 - b) Results of Openings will be published on the City's website www.wheaton.il.us/bids/ within three business days.
 - c) Bidders are encouraged to attend all openings and to offer constructive suggestions for improvements to the solicitation process, to increase competition, and ways in which the City may achieve greater savings and increased transparency.

- d) Despite the reading of offers at a public opening, if the offers are thence rejected and thus subject to rebid, the read results will not be published and will be exempt from FOIA requests.

9) REQUIREMENTS

a) Brand Names or Equal:

- i) Specifications are prepared to describe the goods and services which the City deems to be in its best interests to meet its performance requirements. These specifications shall be considered the minimum standards expected of the contractor.
- ii) If an offer does not indicate deviations or alternatives to the specifications, the City shall assume the offer is fully compliant with all specifications.
- iii) Specifications are not intended to exclude potential contractors. Any reference in the City's specifications to a brand name, manufacturer, trade name, catalog number or the like is descriptive, not restrictive, indicating materials that are satisfactory.
- iv) Consideration of other makes and models will be considered, provided the bidder submits a request for pre-approval by the Last Date for Questions stated on the cover page. Bidder should state exactly what he proposes and attach a cut sheet, illustration or other descriptive matter which will clearly indicate the character of the item. A written response in the form of a public addendum will be published on the City's website, www.wheaton.il.us/bids/.

b) Quantities:

- i) All quantities represent an estimate of the quantity of the work to be done and/or materials to be ordered. It is given as a basis for comparison of offers and to determine the awarding of the contract.
- ii) The City does not expressly or by implication agree that the actual quantities involved will correspond to the published estimate. The bidder accepts that the quantities stated are estimates only and will not hold the City bound to said number.
- iii) The City reserves the right to modify the estimates, or remove them in their entirety, whichever is in the best interests of the City.

10) BID BONDS

- a) The City requires a Bid Bond / Bid Deposit of 10% of the full contract price.
- b) If a Bid Deposit (preferred), it shall be submitted with the formal offer and be in the form of a certified check or a bank cashier's check made payable to the City of Wheaton. Checks will be retained by the City until an award is fully executed, at which time the checks will be promptly returned to the unsuccessful Bidders.
 - i) The Bid Deposit check of the successful Bidder will be retained until the contract has been executed and all required documents, including a Performance Bond if requested, are received.
 - ii) The Bid Deposit check of the successful Bidder shall be forfeited to the City if the Bidder withdraws its offer, or neglects, refuses or is unable to enter into a contract.
- c) If Bidder chooses to use a Bid Bond, the Bid Bond must be in compliance with all bond requirements mandated by the State of Illinois.

11) DEVIATIONS TO REQUIREMENTS AND ALTERNATE OFFERS

- a) If the Bidder is unable to meet most of the specifications, but believes their product/work will meet the needs of the city, the Bidder should submit an Alternate Bid and include material specification sheets, performance data, or other documentation justifying consideration.
- b) If a Bidder plans to submit multiple offers, each offer must be packaged separately and identified on the outer envelope and on the cover page of the offer in a way that can be differentiated from the other offer(s).
- c) The Procurement Officer reserves the right to make the final determination of compliance or whether any deviation or alternate is of an equivalent or better quality and which offer can best meet the needs of the City. Such determination shall be incorporated within Purchasing's' recommendation to the City Council.

12) ENVIRONMENTAL REQUIREMENTS

- a) The City is committed to becoming a sustainable city that conserves its use of resources to optimize efficiency and minimize waste. The City is committed to providing services in an equitable manner for present and future generations.

- b) Recycled Content Products: It is in the City’s interest to purchase products with the highest recycled material content feasible. The City requests that Bidders suggest recycled content products as alternatives.
- c) Recycled Packing Material: The City desires that all shipping containers/packing material for equipment, materials and supplies delivered to the City contain no less than the specified minimum EPA percentage requirements of post-consumer recycled content. Containers and packing material should show the recycled product logo and recycled content percentage information.
- d) To help “Turn Wheaton Green”, the bidder’s sustainability policy, as well as green initiatives for this solicitation, will be considered in the evaluation of the offer.

13) PRICE

- a) The price offered shall remain firm throughout the duration of the agreement.
- b) Failure to record all requested breakdown of prices may result in disqualification. Unit price shall be shown for each unit specified. In case of mistake in extended price, unit price shall govern.
- c) Price shall represent the entire cost of all requirements stated within the solicitation and contract. No subsequent claim will be recognized for any surcharges, add on costs, increase in material prices, cost indexes, wage scales, fuel surcharges, freight costs, packaging or any other rates affecting the industry or this project.

14) FOR PROJECTS BID AS TIME AND MATERIAL

- a) Time, inclusive of but not limited to salaries, benefits, overtime, set-up, break-down, includes all costs associated with labor for this service.
- b) Material, inclusive of but not limited to goods, components, equipment, includes all costs associated with all items necessary to complete this service.
 - i) Complete illustrative and technical data, drawings, and/or printed literature for the materials or equipment quoted should be included with the offer.
- c) Overhead and Profit shall include all costs not covered under material or labor, such as fixed costs and taxes.

15) DISCOUNTS

- a) Discounts of less than thirty (30) days will not be considered in the evaluation.
- b) Discounts for thirty (30) days or more may be considered in in the evaluation.
- c) Where the net offer is equal to an offer with a discount deducted, the award shall be made to the net offer.
- d) Discounts will be figured from the date of receipt of a proper invoice or the approval of the quality of the product received or service completed – whichever is later.

16) TAXES

- a) Unit prices shall not include any local, state or federal taxes.
- b) The City is exempt by law from paying sales tax on goods, equipment, and products permanently incorporated to the project, from State and City Retailer's Occupation Tax, State Service Occupation Tax, State Use Tax, and Federal Excise Tax.
- c) The City's Sales Tax Exemption Number is E9997-4312-07.
- d) The Contractor shall pay sales, consumer, use and other similar taxes.

17) EVALUATION OF OFFERS

- a) Receipt of One (or too few) offers: If the City receives one or too few bids, as defined by the City, from a publicly broadcasted solicitation, the City may reschedule the opening to a later date. The offers received will either be:
 - i) returned unopened to the Bidder for re-submittal at the new due date and time, or
 - ii) if there are no changes in requirements, and pending agreement with the Bidder, held until the new due date and time
- b) If the City does not receive any bids, from a publicly broadcasted solicitation, the City may negotiate with any interested parties.

18) DETERMINING RESPONSIVENESS OF THE OFFER

- a) Responsive bids are inclusive of, but not restricted to: received prior to the due date and time, completed as stated in the solicitation documents, inclusive of all required documents, compliant to all product requirements and specifications, able to meet delivery requirements, accepting of all contract terms and conditions.

19) WAIVERS AND REJECTIONS OF OFFERS

- a) The City reserves the right to waive any informality, technical requirement, deficiency, or irregularity in the offer. The City may conduct discussion with Bidders to further clarify the offer as may be necessary. Correction of the offer shall be effected by submission within 4 hours (e-mail or fax) of a corrected page with changes documented and signed.
- b) The City reserves the right to reject any or all offers for any reason including but not limited to: budgetary constraints, unclear solicitation documents, change in needs, suspicion of collusion, pricing aberrations, front end loading; mathematically unbalanced proposals in which prices for some items are substantially out of proportion to comparable prices, materially unbalanced proposals in which material requirements for some items are substantially higher to comparable proposals; poor quality or poor performance in past City contracts, and other reasons deemed important to the City.
- c) The City reserves the right to accept or reject any offer in which the Bidder names a total price for all the work without breaking down requested material costs, labor costs, and/or overhead and profit.
- d) Multiple offers from an individual, firm, partnership, corporation, or association under the same or different names are subject to rejection unless specifically permitted in the solicitation. Reasonable grounds for believing that a bidder is interested in more than one offer may result in rejection of all offers in which the bidder is interested. Any or all offers will be rejected if there is any reason for believing that collusion exists.
- e) Nothing in this section will preclude a firm acting as a subcontractor to be included as a subcontractor for two or more prime contractors submitting a proposal for work. However, a subcontractor may not submit a proposal as a prime contractor, and a prime contractor may not submit a proposal as a subcontractor.
- f) FOIA: If the City rejects all offers and concurrently provides notice of its intent to reissue the solicitation, the rejected offers remain exempt from FOIA requirements until the City awards or rejects the reissued solicitation.

20) DETERMINING RESPONSIBLENES OF THE BIDDER

- a) The City reserves the right to determine the competence, the financial stability, and the operational capacity, of any Bidder.
- b) Upon request by the City, Bidders shall furnish evidence for the City to evaluate their resources and ability to provide the goods and services required. Such evidence may include; but not be limited to: tour of facilities, staffing levels, listing of equipment and vehicles, listing of personnel's qualifications, certificates, licenses; listing of committed but not yet completed orders; financial statements.
- c) Bidder may be required to submit samples of items within a specified timeframe and at no expense to the City. If not destroyed in testing, samples will be returned at the Supplier's request and expense. Samples which are not requested for return within thirty (30) days will become the property of the City.
- d) Bidders may be required to affect a demonstration of the item or service being proposed. Such demonstration must be at a site convenient and agreeable to the affected City personnel and at no cost to the City.
- e) Bidders may be required to provide references. The City reserves the right to contact said references or other references that may be familiar with the Bidder. The City reserves the right to eliminate a bidder who has not demonstrated the required years of service within the required specialty.
- f) Bidders may be required to provide their internal policy on sustainability.
- g) The City reserves the right to determine if such information might hinder, influence the quality of the work specified, or prevent the prompt completion of additional work such as future maintenance and service.

21) CONFIDENTIAL INFORMATION

- a) Bidders may be required to provide evidence of financial viability. This may be a Dunn and Bradstreet Report, a financial statement prepared by a licensed Certified Public Accountant showing the Bidder's financial condition at the end of the past fiscal year, an annual report.
- b) Bidders may be required to provide other information which they consider proprietary and confidential, and if made known to the public, may affect their ability to compete in the marketplace. Said information will be subject to Illinois State FOIA requirements including the following exemptions:

- i) (5 ILCS 140/7) (From Ch. 116, par. 207) Sec. 7.
- ii) Exemptions. (1) The following shall be exempt from inspection and copying: (g) Trade secrets and commercial or financial information obtained from a person or business where the trade secrets or commercial or financial information are furnished under a claim that they are proprietary, privileged or confidential, and that disclosure of the trade secrets or commercial or financial information would cause competitive harm to the person or business and only insofar as the claim directly applies to the records requested.
- c) Bidders considering requests to be proprietary and confidential should submit an additional redacted offer. Failure to do so may result in information becoming available to the public.

22) SELECTION PROCESS

- a) The City endeavors to select the offer meeting the best interests of the City as stated by its City Council based on the totality of lawful considerations.
- b) The City's determination of best overall value may include consideration of the City's internal cost structure for meeting requirements, such as the city's inventory carrying costs, ordering lead times, equipment maintenance costs, standardization, available project management resources, and items typically identified with and relating to a "Life Cycle Cost Analysis".
- c) The City will consider the following non-exclusive list in determining award: soft costs of contract management; total cost of ownership factors such as transition costs, training costs, additional requirements such as spare parts and special tooling.
- d) The City will contact references to verify bidder's ability and skill to perform the work required based on: past work of similar nature, quality of work, proactive nature of work crew, adherence to the project's production schedule and proposed price constraints, and references' experience if the contractor has character, integrity, and a reputation for good judgment.
- e) If the city's evaluation yields a concern with the potentially recommended bidder's ability, the City reserves the right to require a Performance Bond at no additional cost to the city.
- f) Should identical low, responsive and responsible bids be received from two or more Bidders, the City shall exercise one of the following tie breaking methods:
 - i) Tie Bid (two suppliers): The Procurement Officer, with a witness present, may flip a coin with heads representing the Offeror whose name appears first in alphabetical order. If the toss is heads, said Offeror will receive the recommendation to award.
 - ii) Tie Bid (three or more suppliers): The Procurement Officer, with a witness and each vendor present, shall shuffle a new deck of playing cards and have each Offeror cut the cards. The Offeror who cuts the highest card (with Ace high) shall be recommended for award.

23) AWARD

- a) Except as otherwise stated, bidders will be awarded within ninety (90) days from the opening date.
- b) Award is based on the lowest responsive responsible offer; offering the lowest life-cycle cost; providing the best overall value to the City; and deemed most advantageous to the City, price and other factors considered.
- c) When there is a Base Bid and Alternates, the low bidder shall be the lowest responsible and responsive bid submitted for the Base Bid and Alternate A. If all Bids and Alternate A exceed the project budget, the city reserves the right to award to the bidder presenting the best alternatives for the city.
- d) When there is a Base Bid and Options, the low bidder shall be the lowest responsible and responsive bid submitted for the best combinations for the city.
- e) The City reserves the right to award by item, part or portion of an item, group of items, in the aggregate, or to reject any and all offers in whole or in part according to the best interests of the City.
 - i) Bidder may restrict their offer to consideration in the aggregate by so stating on the proposal form, but must name a unit price on each item.
- f) The successful Bidder may be required to enter into a contract with the City of Wheaton covering all matters set forth in the solicitation document, and addenda.

24) REQUIREMENTS IF AWARDED THE WORK

- a) Registration: The successful supplier, prior to the execution of the order, or no later than 10 days after receipt of the award document, must be registered to do business in the City of Wheaton and the State of Illinois.
- b) Insurance: The successful Bidder, if awarded by contract, will be required to carry insurance acceptable to the City. (*reference Contract Addendum 1*).
 - i) Certificates of Insurance, Endorsements, and a Waiver of Subjugation must be submitted with the execution of the contract.
 - ii) The Bidders obligation to purchase stated insurance cannot be waived by the city's action or inaction.
- c) Bonds: The successful bidder, if awarded by contract, may be required to provide a bond/bonds. Said bonds must be through a bonding company listed on the Department of the Treasury's Listing of Certified Companies http://www.fms.treas.gov/c570/c570_a-z.html.
 - i) Surety must be in compliance with any bond requirements mandated by the State of Illinois.
- d) Security Clearance: Background checks inclusive of finger printing MAY be required for contractors servicing secured areas. Contractors will submit a list of employees' names to the Project Manager who will coordinate the background checks with the police department. Said list should include staff to cover absences or reassignment.
 - i) Anyone with a background history showing a conviction for a felony; theft history of any kind, sex offense history, or any crime involving moral turpitude, illegal drug or narcotics use, sale or possession, or anyone showing a felony charge pending, or who has any outstanding warrants of any type, including misdemeanor traffic or felony warrants, may be subject to arrest, and will not be allowed to work under this contract.
 - ii) The contractor shall be responsible for all personnel engaged in the work. Contractor must ensure that: said personnel have been completely and satisfactorily cleared by the City of Wheaton for work within secure areas; a sufficient amount of backup or relief personnel to cover absenteeism or replacement have been completely and satisfactorily cleared or work; equipment and personnel do not enter facilities except as required during the progress of the work.
 - iii) The City reserves the right to request removal of any contractor's employee upon submitting proper justification should such action be considered necessary to the best interests of the City. Contractor is permitted to add/replace personnel with approved backup personnel, or reassign personnel already cleared by the City for work within secure areas. The City must be provided written notice prior to time of replacement.

25) AUDIT

- a) The successful Bidder may be audited by the City or an agent of the City. Audits may be at the request of federal or state regulatory agencies, other governmental agencies, courts of law, consultants hired by the City or other parties which in the City's opinion requires information. Data, information, and documentation will include, but not be limited to, original estimate files, change order estimate files, detailed worksheets, subcontractor proposals, supplier quotes and rebates, and all project related correspondence, and subcontractor and supplier change order files.

26) PROTESTS

- a) Any Bidder who claims to be aggrieved in connection with a solicitation, the selection process, a pending award, or other reasonable issue may initiate a protest.
 - i) Protests involving the solicitation process or stated requirements must be presented in writing via e-mail to the Procurement Officer no later than the last date for questions as reflected on the cover page of this document.
 - ii) Protests involving the evaluation of offers, staff recommendations, or the award process must be submitted in writing to the Procurement Officer no later than three business days after bid results are publicly posted.
- b) Protests must include: the name and address of the protestor; appropriate identification of the solicitation; if an award has been initiated, the award document number (if available), identification of the procedure that is alleged to have been violated; precise statement(s) of the relevant facts; identification of the issue to be resolved; protestor's argument and supporting documentation (Exhibits, evidence, or documents to substantiate any claims).

- c) A person filing a notice of protest will be required, at the time the notice of protest is filed, to post a bond in the form of a cashier's check in an amount equal to twenty-five percent of the City's estimate of the total volume of the award, or \$1,000, whichever is less.
 - i) If the decision of the Protest does not uphold the action taken by the City, then the City shall return the amount, without deduction, to the Bidder filing the protest.
 - ii) If the decision of the Protest upholds the action taken by the City, then the City shall retain the amount of the cashier's check in payment for a portion of the cost and expense for time spent by City staff in responding to the protest and in conducting the evaluation of the protest.
- d) Upon receipt of the notice of protest, the Procurement Officer shall stop the award process.
 - i) The Procurement Officer will rule on the protest in writing within two business days from receipt of protest.
 - ii) Appeals of the Procurement Officer's decision must be made in writing within two business days after receipt thereof and submitted to the City Manager for final resolution. Appellant shall have the opportunity to be heard and an opportunity to present evidence in support of the appeal.
 - iii) The City Manager's decision is final.

27) OTHER ENTITY USE

- a) Although this solicitation is specific to the City of Wheaton, Offerors have the option of allowing this offer, if awarded by the City to the Offeror, to be available to other local entities and agencies within the DuPage-Kane-Cook-Will and Kendall Counties. If the successful Offeror and the interested entity/agency mutually agree on the Terms and Conditions, inclusive of pricing, both parties may perform business under the authority of this solicitation and contract.
- b) It is understood that at no time will any city or municipality or other agency be obligated for placing an order for any other city, municipality, or agency; nor will any city or municipality or agency be obligated for any bills incurred by any other city or municipality or agency. Further, it is understood that each agency will issue its own purchase order to the awarded Supplier.

END OF GENERAL INSTRUCTIONS REGARDING THE SOLICITATION OF CONTRACTED SERVICES

2017 WEST STREET WATER MAIN REPLACEMENT PROJECT

GENERAL TERMS AND CONDITIONS FOR CONTRACTORS

- 1) CONTRACT ADMINISTRATION
 - a) A "Work May Proceed" order will be issued by Procurement upon confirmation of a properly executed contract.
 - b) Once the "Work May Proceed" order is issued, the contractor's primary contact with the city will become the Project Manager.
 - c) The Project Manager's primary responsibility is to assure the city receives the contracted services in accordance to the terms and conditions and specifications of the contract. The Project Manager will, but is not limited to: oversee the entire project from kick-off activities through close out and payment of final invoice; monitor equipment, materials, and project progress; address any quality issues and change orders; verify schedule of Values, output, schedule status; conduct random inspections.
 - d) The contractor will provide name and contact information of key contact to the Project Manager for use during time of emergency or at any hour city staff sees fit to do so.
 - a. If security clearance is required for this work, it will be pursued at this time.

- 2) COMMUNICATIONS PLAN
 - a) The Contractor shall designate an individual who must be present, at all times, on the site and who will serve as the Contractor's authorized representative throughout the completion of the Work and who shall be readily available to respond to communications. This individual must be a competent, English-speaking individual who is capable of reading and understanding the Contract Documents. This representative shall be subject to receive instructions and have full authority to execute the directions, without delay, and promptly supply any necessary labor, equipment, material, or incidentals to do so. If any person employed shall refuse or neglect to obey the directions of the Project Manager, in anything relating to the Work, or shall appear to be incompetent, disorderly, or unfaithful, he/she shall, upon request of the City, be at once discharged and shall not be employed again on any part of the Work.
 - b) The Contractor shall provide the name and phone number of the Contractor's representative who, in the case of an off-hours emergency can be readily accessible and be available for quick response to the site. If that person does not respond within the period of time requested all reasonable costs, including the payment of overtime wages or charges, shall be deducted from payments due the Contractor. Contractor shall immediately notify the Project Manager in writing of any change in the identity and telephone number of the Contractor's representative.
 - c) The contractor is required to provide the City's project manager with written/e-mailed bulletins addressing the status of the project throughout the life of the contract.
 - d) The bulletins shall cover all work performed and completed and shall confirm the schedule of the work yet to be performed. It shall also state any assumptions and/or exclusions.
 - e) The bulletin shall identify problems encountered, or still outstanding, with an explanation of the cause and resolution of the problem or how the problem will be resolved.
 - f) The contractor will be responsible for conducting status meetings with the project manager as scheduled. The meetings can be in person or over the phone, at the discretion of the city.

- 3) DOCUMENTS
 - a) Contractor is to maintain at the job site a complete and current set of drawings, plans and contract documents; bulletins, supplemental instructions, proposals, change orders, subcontractor's proposals, supplier's invoices, all written requests, and responses to each required change.
 - b) All documents must accurately reflect the current status of all pertinent data including changes in the line item quantities and contract sum attributed to change orders.
 - c) All documents are to be available to the Project Manager.
 - d) All documents are to be available for auditing purposes, FOIA, and other reasons necessitated by the city.

- 4) MATERIAL AND EQUIPMENT

- a) If the offer identifies an item by manufacturer's name, trade name, catalog number, or reference, the contractor shall furnish the item so identified and shall not propose to furnish an "equal".
 - b) If the identified item is no longer available, the City must approve any proposed "equal" prior to order placement. The City will not incur any additional costs for the "equal".
 - c) All components used in the manufacture or construction of materials, supplies and equipment, and all finished materials, shall be new, the latest make/model, of the best quality, and the highest grade workmanship.
 - d) Contractor must provide documentation that any and all Hazardous Material created during the performance of the project work has been disposed of or recycled in compliance with all Illinois Administrative Code Title 35, Part 733 "Standards for Universal Waste Management", and other applicable State, Federal and local regulations.
 - e) All material or equipment furnished shall meet the minimum requirements of Occupational Safety & Health Standard (OSHA) published in the Federal Register, U L, or other nationally recognized certifying body.
- 5) SUBSTITUTIONS
- a) No substitutions will be considered after Notice of Award except under one or more of the following conditions:
 - i) Substitution required for compliance with final interpretations of code requirement or insurance regulations
 - ii) Unavailability of specified products, through no fault of the contractor.
 - iii) Subsequent information discloses inability of specified product to perform properly or to fit in designated space.
 - iv) Manufacturer /fabricator refusal to certify or guarantee performance of specified product as specified.
 - v) When a substitution would be substantially to owner's best interest.
 - b) Substitutions will not be considered when items are indicated or implied on shop drawings or product data submittals without formal request.
- 6) REQUESTS FOR SUBSTITUTION
- a) Submit request for substitution to the attention of the Project Manager. Include documentation confirming compliance of proposed substitution with contract documents.
 - i) For products include: Product description and identification, manufacturer's name, and address. manufacturer's literature, performance and test data, reference standards, samples, name, and address of similar projects on which product was used and dates of installation
 - ii) For construction methods include: detailed description of proposed method, drawings illustrating methods, itemized comparison of proposed substitution with product or method specified, statement regarding the effect of the substitution to the construction schedule
 - b) Identify: changes or coordination required, other contracts affected, accurate cost data on proposed substitution in comparison with product or method specified.
 - c) Contractor attests that he has personally investigated proposed product or method and determined that it is equal or superior in all respects to that specified; that he will provide the same guarantee for substitution as for product or method specified; that he will coordinate installation of accepted substitutions into the work, making all changes for work to be complete in all respects.
 - d) Cost data must include all related costs under contract but excludes owner's redesign, administrative costs of owner, costs under separate contracts.
 - e) Contractor will pay all additional costs and expenses for owner and other contractors.
 - i) Acceptance of substitution will require substantial revision of plans, drawings, and contract documents for all related projects.
- 7) DELIVERY AND STORAGE
- a) Deliveries of documents, materials, equipment etc. are between the hours of 8:30 A.M. and 3:00 P.M. Monday through Friday, excluding holidays, unless otherwise stipulated.
 - b) Failure to deliver within a reasonable lead-time as determined by the city, shall constitute authority for the Procurement Officer to purchase in the open market items of comparable grade to replace the items not delivered.

- c) Contractor is to accept material and equipment delivered to the job site and is responsible to store all items in accordance with the manufacturer's written instructions, handling, and protection from weather, damage, and theft for the duration of the Agreement. Contractor shall be responsible for losses.
 - d) Material delivered shall remain the property of the Contractor until:
 - i) A physical inspection and actual usage of the material is made and found to be acceptable to the City; and
 - ii) Material is determined to be in full compliance with the solicitation documents and executed contract.
 - iii) Where circumstances or conditions exist preventing effective inspection of the goods at the time of delivery, the City of Wheaton reserves the right to inspect the goods within a reasonable time after delivery.
 - e) Contractor assumes full responsibility for protection and safekeeping of the contractor's own materials and equipment stored on premises, and move, if necessary, all stored products which interfere with operations of the city.
 - f) Unless otherwise specified, packaged material shall remain in original containers with labels intact and seals unbroken.
 - g) The contractor shall submit a Material Safety Data Sheet (MSDS) prior to or at the time of delivery for any/all toxic substances per Public Act 83-240, OSHA standards or any other applicable law.
- 8) NONCONFORMING MATERIALS
- a) In the event the delivered material is not in compliance to the specification documents and executed contract, the City will reject the material.
 - b) Contractor shall remove rejected materials at his expense promptly after notification of rejection.
 - c) Contractor shall provide replacement of rejected articles immediately. If replacement is not timely, as determined by the city, the Procurement Officer will purchase in the open market items of comparable grade to replace the items not replaced and the Contractor shall reimburse the City for any expense incurred in excess of contract prices. Such purchases shall be deducted from contract quantities
 - d) The city reserves the right to either: cancel the order; request contractor to issue credit to the city; or deduct such amount from monies owed.
 - e) Should public necessity demand it, the City reserves the right to use or consume items delivered which are substandard in quality, subject to an adjustment in price to be determined by the Procurement Officer.
- 9) MANUFACTURER'S REQUIREMENTS
- a) All work must be performed according to manufacturer's stated recommendations.
 - b) If manufacturer's stated recommendations conflict with specifications, issues should be addressed in writing to the Project Manager prior to proceeding with any work.
 - c) If manufacturer's stated recommendations include required services not listed within the specifications, said services must be considered as inherent to the city's specifications and offers should include said services.
 - d) All work is to be performed consistent to industrial performance standards.
- 10) PERMITS AND LICENSES
- a) The successful contractor shall be responsible for obtaining, at their own expense, all permits and licenses which may be required to complete the contract.
 - b) Contractor represents that it, its employees, agents, and subcontractors shall hold all required licenses, permits, qualifications and certificates, and have duly registered and otherwise complied in all respects with all applicable federal, state and local laws, regulations, and ordinances applicable to the performance of this contract.
- 11) CONTRACTOR USE OF PREMISES
- a) Confine operations at site to areas permitted by all laws, ordinances, and permits, as well as the contract documents.
 - b) The contractor shall control operations to avoid interference with normal traffic flow on and around the site; when necessary provide barriers, warning lights, and signs as required to protect workers and the public.
 - c) Limit use of premises for work, storage of material and equipment, and parking of worker's automobiles.
 - d) Conduct operations in a manner that avoids interference with use of the building and building operations and which protects persons and property.

- e) If utility shut-down is required, provide Project Manager two (2) days advanced warning and estimation of duration of required utility shutdown.
- 12) UTILITY LOCATION
- a) The contractor must exercise extreme caution while working around existing utilities. The contractor shall notify J.U.L.I.E., utility companies, and the Project Manager before commencing construction work around utility locations within the scope of the project.
- 13) CONTRACTOR IDENTIFICATION
- a) For security purposes, all contracted service providers must be clearly identified with company photo id and company attire.
 - b) Upon Project Manager's approval, contractors requiring unrestricted mobility within designated facilities will require a City of Wheaton Contractor photo id.
 - c) Contractor's advertising decals, stickers or other signs shall not be affixed to equipment or visible to the public.
- 14) MANUALS AND DOCUMENTS
- a) The contractor shall submit to the owner such operating and maintenance manual and repair part lists as required by the nature of the work.
- 15) CLEANING
- a) Contractor shall maintain premises and public properties free from accumulation of waste, debris, and rubbish caused by construction operations. Cleaning and disposal operations must comply with Federal, State and local ordinances and anti-pollution laws.
 - b) Provide on-site metal containers for collection of waste materials, debris, and rubbish.
 - c) At completion of work: sweep paved areas broom clean; remove waste materials, rubbish, tools, equipment, machinery, and surplus materials; clean all sight-exposed surfaces and leave project area clean and ready for use; clean the project site, yard, grounds, and landscaped areas; remove petro- chemical spills, stains, and other foreign deposits; clean plumbing fixtures to a sanitary condition, free of stains.
 - d) Touch-up and otherwise repair and restore marred exposed finishes and surfaces.
- 16) SAFETY AND HEALTH
- a) All Occupational Safety and Health Administration (OSHA) standards apply.
 - b) Store volatile wastes in covered metal containers and remove from premises daily.
 - c) Provide adequate ventilation during use of volatile or noxious substances.
- 17) CHANGE ORDER PROCEDURE
- a) The city reserves the right to make changes in the plans and specifications by altering, adding to, or deducting from the work, without invalidating the contract. All such changes shall be executed under the conditions of the original contract, except that any claim for extension of time caused thereby shall be adjusted at the time of ordering such change.
 - b) Bulletins: From time to time during progress of the work, the city may issue a bulletin which interprets the contract documents or order minor changes in the work without change in contract sum or contract time.
 - i) Issuance of a bulletin is not to be considered a change order authorizing additional work or affecting project time table. Such changes require a proposal, review, and if approved, a change order.
 - c) Should the contractor consider that a change in the specified work, the contract sum or contract time is required, he shall initiate a change order and submit to the Project Manager for documented approval before proceeding with the work.
- 18) CHANGE ORDERS
- a) Issuance of an oral statement, or verbal approval, is not to be considered a Change Order and is not authorization to proceed.
 - b) Approved Change Orders will be numbered in sequence and dated.

- c) Approved Change Orders are required with any/all changes in, the specified work, the contract sum, the time for completion, or any combination thereof.
- d) Change orders will describe the change or changes, will refer to the bulletin(s) and proposal(s) involved, and will be signed by the city and the contractor prior to implementing the change.
- e) All Change Orders shall clearly identify the impact of cost and the effect on time required to perform the work associated with the proposal.
 - i) If the proposal is found to be satisfactory and in proper order, and both parties agree upon cost or credit for the change, the city will authorize the documented Change Order which will be confirmed via contract amendment.
 - ii) Additional requests for additional costs and/or extensions of time for previously proposed and accepted items will NOT be granted after initial acceptance.
- f) The contractor will take measures to ensure contractors and sub-contractor's staff is familiar with the procedures for processing change orders.

19) PAYMENT

- a) Authorization of payment requires receipt of contractor's invoice, acceptance of product/services and receipt of other required paperwork such as: certificate of origin, MSDS, Waivers and Liens, Certified Payroll (if applicable).
- b) Retainage in the amount of ten percent (10%) of a payment request will be deducted from the amount determined for the first fifty percent (50%) of the project for major projects. Retainage will be held until:
 - i) All defective work has been remedied.
 - ii) All work is 100% final and the City's project manager has formally accepted the work.
 - iii) All waivers, liens, certified payrolls, warranty documents and other required documentation are provided.
 - iv) Or, if the work is fifty percent (50%) completed, satisfactory and on schedule, upon the discretion of the Project Manager. In such a case, the city will continue to retain no less than five percent (5%) of the total adjusted contract price.
 - v) Retainage will not apply to payments for Bonds and Mobilization.
- c) Payment will be:
 - i) made to the company awarded this order. Under no circumstances will a third party be reimbursed.
 - ii) Via the City's Purchasing Card Program, MasterCard, in which payment will occur at time of product or service delivery (preferred); or
 - iii) Via supplier generated invoice.
- d) The City complies with the Illinois Local Government Prompt Payment Act which states that any bill approved for payment shall be paid within 30 days after date of approval.
 - i) Invoices must be submitted to the city within six months of order completion. Any invoices submitted in excess of six months from order completion will not be paid.

20) CONTRACTOR SERVICE ISSUES

- a) Recourse for non-compliant construction services shall be managed, in any order, via (a) Punch List, (b) Retainage and/or (c) Performance Bonds.

21) LIQUIDATED DAMAGES

- a) The time of completion for the performance of this contract is of the essence of this contract and since quantifying losses arising from Contractor's delay are inherently difficult insofar as delay may impact traffic and the provision of City services to the public, the City will require liquidated damages if deadlines are not met, not as a penalty, but rather as a reasonable measure of damages given the nature of the losses that may result from delay.
- b) For this Agreement, the Contractor agrees to compensate the City in the amount of \$500.00 per calendar day beyond the delivery date specified unless the delivery date is delayed for reasons of force majeure.
- c) Any extensions agreed to by executed Change Orders will be considered in the application of Liquidated Damages.

22) PROCESS TO TERMINATE

- a) The service provider shall not be reimbursed until services are compliant.
- b) If services continue to remain non-compliant, Procurement will prepare a formal Letter of Warning addressing the contractor's Failure to Comply. Contract language states "The City may terminate this Agreement upon seven (7) days written notice to the Contractor."
- c) If contractor fails to achieve required results within stated timeframe, Procurement will terminate contract.
- d) The City shall have the right to terminate this Agreement, with or without cause, upon fifteen (15) days written notice to the Contractor. The Contractor shall be paid for all work performed in conformance with the Agreement through the effective date of the not for cause termination.

END OF GENERAL TERMS AND CONDITIONS FOR CONTRACTORS

2017 WEST STREET WATER MAIN REPLACEMENT PROJECT

SPECIAL TERMS AND CONDITIONS FOR CONTRACTED SERVICES

1. Background

The City of Wheaton is seeking bids from qualified contractors for replacement of approximately 1,462 feet of water main replacement on West Street between IL Route 38 (Roosevelt Road) and Childs/Illinois Street in the City of Wheaton.

2. Timeframe

- a. Bid posted on May 24, 2017.
- b. Last Date for Questions: May 31, 2017 at 12:00 pm local time
- c. Bid Responses Due: June 7, 2017, prior to 11:00 am local time
- d. Project Completion Date: September 15, 2017.

3. Liquidated Damages

- a. The time of completion for the performance of this contract is of the essence of this contract and since quantifying losses arising from Contractor's delay are inherently difficult insofar as delay may impact traffic and the provision of City services to the public, the City will require liquidated damages if deadlines are not met, not as a penalty, but rather as a reasonable measure of damages given the nature of the losses that may result from delay.
- b. For this Agreement, the Contractor agrees to compensate the City in the amount of \$500.00 per calendar day beyond the delivery date specified unless the delivery date is delayed for reasons of force majeure.
- c. Any extensions agreed to by executed Change Orders will be considered in the application of Liquidated Damages.

4. Communications Plan

- a. The Contractor shall attend a pre-construction meeting with the City project engineer prior to commencement of any work.
- b. The successful bidder must submit the following for approval at, or before, the pre-construction meeting:
 - i. Certificates of Insurance, Endorsements, and a Waiver of Subrogation
 - ii. Payment and Performance Bond
 - iii. Project schedule, including anticipated completion date
 - iv. List of all essential project personnel with job title and experience listed

5. Work Hours

- a. Monday – Friday 7:00am - 7:00pm (excluding City holidays) or with the approval of the Project Manager.
- b. The contractor shall notify the Project Manager at least 48 hours prior to initial start of operations, and prior to any temporary cessation and resumption of operations.

6. Prevailing Wage

- a. The Prevailing Wage Act (820 ILCS 130/1-12) DOES apply.
- b. Certified Payroll is required with each invoice.

Waivers of Lien

- c. The first Application for Payment shall be accompanied by the General Contractor's partial waiver of lien, called Waiver of Lien to Date, for the full amount of payment due.
- d. Each subsequent Application for Payment shall be accompanied by the General Contractor's Waiver of Lien to Date, plus the partial waivers of lien of Labor, Subcontractors and Material Suppliers who were included in the immediately preceding Application for Payment to the extent of that payment.
- e. The final Application for Payment must be accompanied by the Final Waiver of Lien for the full amount of the Contract from the General Contractor, Labor, Subcontractors, and Material Suppliers, including those who have not previously furnished such final waivers.

7. Bonds

- a. A Bid Bond / Bid Deposit is required.
 - b. A Payment and Performance Bond of one hundred ten percent (110%) of the full Agreement price is required for the faithful fulfillment of the Agreement; for the protection of the City from all liens and damages arising out of the work.
 - c. Bond Certificates must be submitted with the signed contract, i.e. no later than ten (10) days after receipt of the award document.
8. Insurance Requirements
Reference Agreement Addendum 1.
9. Cost Structure
- a. All of the work not specifically mentioned herein which is required to delivered the completed project as specified herein shall be included in the bid proposal.
10. Method of Payment: Partial payment based on progress.
- Invoices
- a. A schedule of dates when pay requests must be submitted will be determined at the preconstruction meeting.
 - b. All invoices must reflect the following applicable information: Agreement Number, name of the Project, name of the Contractor, and the services/deliverables with the price depicted in the same format as the offer.
 - c. Lien waivers must be submitted with each invoice.
 - d. The City shall withhold 10% retainage from each payment due the Contractor. Contract retainage shall be released upon final completion of all work and receipt of all documentation as required by the Agreement.
 - e. All invoices are mailed to the attention of the Project Engineer; City of Wheaton, PO Box 727, Wheaton, IL 60187.
- Project Close Out
- f. Verification of quality and completion of service
 - g. Completion of Punch List and all areas of non-compliance or incomplete tasks
 - h. Review Liquidated Damages
 - i. Review Retainage
 - j. Final Payment: Prior to authorization of Final Payment, the following documents must be submitted:
 - i. Completed Waivers and Liens
 - ii. All Certified Payrolls
 - iii. Documented completion of the Punch List
 - iv. Statements of Warranty
 - v. Written approval of the City's Project Manager

END OF SPECIAL TERMS AND CONDITIONS FOR CONTRACTED SERVICES



Local Public Agency
Formal Contract Proposal

| | | |
|-----------------------|----------|----------|
| PROPOSAL SUBMITTED BY | | |
| Contractor's Name | | |
| Street | P.O. Box | |
| City | State | Zip Code |

STATE OF ILLINOIS

COUNTY OF DuPage
City of Wheaton
 (Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. West Street Water Main Replacement
 SECTION NO. _____
 TYPES OF FUNDS Local Funds

SPECIFICATIONS (required)

PLANS (required)

For Municipal Projects
 Submitted/Approved/Passed

Mayor President of Board of Trustees Municipal Official

Date

Department of Transportation

Released for bid based on limited review

Regional Engineer

Date

For County and Road District Projects
 Submitted/Approved

Highway Commissioner

Date

Submitted/Approved

County Engineer/Superintendent of Highways

Date

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

RETURN WITH BID

NOTICE TO BIDDERS

County DuPage
Local Public Agency City of Wheaton
Section Number
Route West Street

Sealed proposals for the improvement described below will be received at the office of The Procurement Officer,
303 W. Wesley Street, Wheaton, Illinois 60187 until 11:00 a.m. on June 7, 2017

Sealed proposals will be opened and read publicly at the office of The Procurement Officer
303 W. Wesley Street, Wheaton, Illinois 60187 at 11:00 a.m. on June 7, 2017

DESCRIPTION OF WORK

Name 2017 West Street Water Main Rehabilitation Project Length: 1,462 feet (0.26 miles)
Location West Street between IL Route 38 (Roosevelt Road) and Childs/Illinois Street in the City of Wheaton
Proposed Improvement Water main replacement (Refer to Special Provisions)

1. Plans and proposal forms will be available in the office of
http://www.wheaton.il.us/departments/purchasing Contact: Linda Styczen at LStyczen@wheaton.il.us

2. [X] Prequalification
If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.

3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.

- 4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:
a. BLR 12200: Local Public Agency Formal Contract Proposal
b. BLR 12200a Schedule of Prices
c. BLR 12230: Proposal Bid Bond (if applicable)
d. BLR 12325: Apprenticeship or Training Program Certification (do not use for federally funded projects)
e. BLR 12326: Affidavit of Illinois Business Office

5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.

6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.

7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.

8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.

9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

RETURN WITH BID

PROPOSAL

County DuPage
Local Public Agency City of Wheaton
Section Number
Route West Street

1. Proposal of 2017 West Street Water Main Rehabilitation Project

Refer to Special Provisions - Sheet 2

a total distance of 1,462 feet, of which a distance of 1,462 feet, (0.26 miles) are to be improved.

2. The plans for the proposed work are those prepared by Thomas Engineering Group, LLC and approved by the Department of Transportation on N/A

3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.

4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.

5. The undersigned agrees to complete the work within N/A working days or by September 15, 2017 unless additional time is granted in accordance with the specifications.

6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to:

City of Wheaton Treasurer of

The amount of the check is ().

7. In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check is placed in another proposal, it will be found in the proposal for:

8. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.

9. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.

10. A bid will be declared unacceptable if neither a unit price nor a total price is shown.

11. The undersigned submits herewith the schedule of prices on BLR 12200a covering the work to be performed under this contract.

12. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12200a, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

RETURN WITH BID



SCHEDULE OF PRICES

County DuPage
 Local Public Agency City of Wheaton
 Section _____
 Route West Street

Schedule for Multiple Bids

| Combination Letter | Sections Included in Combinations | Total |
|--------------------|-----------------------------------|-------|
| | | |
| | | |
| | | |

Schedule for Single Bid

(For complete information covering these items, see plans and specifications)

Bidder's Proposal for making Entire Improvements

| Item No. | Items | Unit | Quantity | Unit Price | Total |
|----------|---|------|----------|------------|-------|
| 1 | DUST CONTROL WATERING | UNIT | 50 | | |
| 2 | SUPPLEMENTAL WATERING | UNIT | 10 | | |
| 3 | TRENCH BACKFILL | CY | 2,224 | | |
| 4 | TOPSOIL FURNISH AND PLACE, 4" | CY | 28 | | |
| 5 | EXPLORATORY EXCAVATION | EACH | 5 | | |
| 6 | EXPLORATORY TRENCH | EACH | 5 | | |
| 7 | TREE ROOT PRUNING | EACH | 15 | | |
| 8 | SODDING | SY | 259 | | |
| 9 | INLET FILTERS | EACH | 15 | | |
| 10 | AGGREGATE FOR TEMPORARY ACCESS | TON | 100 | | |
| 11 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 550 | | |
| 12 | SIDEWALK REMOVAL | SF | 902 | | |
| 13 | DRIVEWAY PAVEMENT REMOVAL | SY | 15 | | |
| 14 | P.C.C. SIDEWALK, 4" | SF | 902 | | |
| 15 | DETECTABLE WARNINGS | SF | 16 | | |
| 16 | P.C.C. DRIVEWAY PAVEMENT, 5" | SY | 15 | | |
| 17 | CLASS D PATCHING, TYPE I, 13" | SY | 50 | | |
| 18 | CLASS D PATCHING, TYPE II, 13" | SY | 89 | | |
| 19 | CLASS D PATCHING, TYPE III, 13" | SY | 50 | | |
| 20 | CLASS D PATCHING, TYPE IV, 13" | SY | 1,019 | | |
| 21 | STORM SEWER REMOVAL, 12" | FOOT | 83 | | |
| 22 | STORM SEWER REMOVAL, 30" | FOOT | 35 | | |
| 23 | SANITARY SEWER REMOVAL, 10" | FOOT | 49 | | |
| 24 | SANITARY SEWER REMOVAL, 12" | FOOT | 68 | | |
| 25 | STORM SEWER, PVC, SDR-26, 12" WATER QUALITY PIPE | FOOT | 83 | | |
| 26 | STORM SEWER, PVC, SDR-26, 30" WATER QUALITY PIPE | FOOT | 35 | | |
| 27 | SANITARY SEWER, PVC, SDR-26, 10" WATER QUALITY PIPE | FOOT | 49 | | |
| 28 | SANITARY SEWER, PVC, SDR-26, 12" WATER QUALITY PIPE | FOOT | 68 | | |
| 29 | WATER MAIN, DIP, CL 52, PUSH JOINTS, TRENCHED, 6" | FOOT | 89 | | |
| 30 | WATER MAIN, DIP, CL 52, PUSH JOINTS, TRENCHED, 8" | FOOT | 31 | | |
| 31 | WATER MAIN, DIP, CL 52, PUSH JOINTS, TRENCHED, 12" | FOOT | 1,342 | | |
| 32 | WATER VALVES, 6" | EACH | 1 | | |
| 33 | WATER VALVES, 8" | EACH | 6 | | |
| 34 | WATER VALVES, 12" | EACH | 5 | | |
| 35 | FIELD LOK GASKETS FOR DUCTILE IRON WATER MAIN | EACH | 45 | | |
| 36 | FIRE HYDRANTS | EACH | 2 | | |
| 37 | WATER SERVICE LINE, 1" | FOOT | 932 | | |
| 38 | WATER SERVICE LINE, 1-1/4" | FOOT | 250 | | |
| 39 | WATER SERVICE LINE, 1-1/2" | FOOT | 250 | | |
| 40 | WATER SERVICE (COMPLETE) | EACH | 29 | | |
| 41 | CUT & INSTALL ENDCAPS | EACH | 10 | | |
| 42 | CUT IN CONNECTIONS | EACH | 9 | | |
| 43 | COMBINATION CONCRETE CURB AND GUTTER, B-6.12 | FOOT | 497 | | |

RETURN WITH BID

CONTRACTOR CERTIFICATIONS

County DuPage
Local Public Agency City of Wheaton
Section Number
Route West Street

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

1. Debt Delinquency. The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.

2. Bid-Rigging or Bid Rotating. The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

3. Bribery. The bidder or contractor or subcontractor, respectively, certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.

4. Interim Suspension or Suspension. The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be cancelled.

RETURN WITH BID

SIGNATURES

County DuPage
Local Public Agency City of Wheaton
Section Number _____
Route West Street

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed By _____

Business Address _____

Inset Names and Addressed of All Partners



(If a corporation)

Corporate Name _____

Signed By _____

President

Business Address _____

Inset Names of Officers



President _____

Secretary _____

Treasurer _____

Attest: _____
Secretary



Local Agency Proposal Bid Bond

Route West Street
County DuPage
Local Agency City of Wheaton
Section

RETURN WITH BID

PAPER BID BOND

WE _____ as PRINCIPAL,
and _____ as SURETY,

are held jointly, severally and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ day of _____

Principal

(Company Name)
By: _____ (Signature and Title)

(If PRINCIPLE is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be affixed.)

Surety

(Name of Surety)
By: _____ (Signature of Attorney-in-Fact)

STATE OF ILLINOIS,
COUNTY OF _____
I, _____, a Notary Public in and for said county,
do hereby certify that _____

(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instruments as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____

My commission expires _____ (Notary Public)

ELECTRONIC BID BOND

Electronic bid bond is allowed (box must be checked by LA if electronic bid bond is allowed)

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code (grid)

Electronic Bid Bond ID Code

(Company/Bidder Name)
(Signature and Title)
Date



Apprenticeship or Training Program Certification

Return with Bid

Route West Street
County DuPage
Local Agency City of Wheaton
Section

All contractors are required to complete the following certification:

- For this contract proposal or for all groups in this deliver and install proposal.
For the following deliver and install groups in this material proposal:

Blank lines for listing deliver and install groups.

Illinois Department of Transportation policy, adopted in accordance with the provisions of the Illinois Highway Code, requires this contract to be awarded to the lowest responsive and responsible bidder. The award decision is subject to approval by the Department. In addition to all other responsibility factors, this contract or deliver and install proposal requires all bidders and all bidders' subcontractors to disclose participation in apprenticeship or training programs that are (1) approved by and registered with the United States Department of Labor's Bureau of Apprenticeship and Training, and (2) applicable to the work of the above indicated proposals or groups. Therefore, all bidders are required to complete the following certification:

- I. Except as provided in paragraph IV below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.
II. The undersigned bidder further certifies for work to be performed by subcontract that each of its subcontractors submitted for approval either (A) is, at the time of such bid, participating in an approved, applicable apprenticeship or training program; or (B) will, prior to commencement of performance of work pursuant to this contract, establish participation in an approved apprenticeship or training program applicable to the work of the subcontract.
III. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's employees. Types of work or craft that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category for which there is no applicable apprenticeship or training program available.

Blank lines for listing program sponsors and subcontracted work categories.

IV. Except for any work identified above, any bidder or subcontractor that shall perform all or part of the work of the contract or deliver and install proposal solely by individual owners, partners or members and not by employees to whom the payment of prevailing rates of wages would be required, check the following box, and identify the owner/operator workforce and positions of ownership.

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project is accounted for and listed. The Department at any time before or after award may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. In order to fulfill the participation requirement, it shall not be necessary that any applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract or deliver and install proposal.

Bidder: _____

By: _____

(Signature)

Address: _____

Title: _____



Affidavit of Illinois Business Office

County DuPage
Local Public Agency City of Wheaton
Section Number
Route West Street

State of Illinois)
) ss.
County of DuPage)

I, (Name of Affiant) of (City of Affiant), (State of Affiant),

being first duly sworn upon oath, states as follows:

- 1. That I am the officer or position of bidder.
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, (bidder), will maintain a business office in the State of Illinois which will be located in County, Illinois.
4. That this business office will serve as the primary place of employment for any persons employed in the construction contemplated by this proposal.
5. That this Affidavit is given as a requirement of state law as provided in Section 30-22(8) of the Illinois Procurement Code.

(Signature)
(Print Name of Affiant)

This instrument was acknowledged before me on day of , .

(SEAL)

(Signature of Notary Public)

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* indicates parts of proposal to be returned with bid

The following Special Provisions supplement the “Standard Specifications for Road and Bridge Construction”, Adopted April 1, 2016 _____, the latest edition of the “Manual on Uniform Traffic Control Devices for Streets and Highways”, and the “Manual of Test Procedures of Materials” in effect on the date of invitation of bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of _____, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

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**CITY OF WHEATON
2017 WEST STREET WATER MAIN REPLACEMENT PROJECT**

Special Provisions - Sheet 2

DESCRIPTION OF IMPROVEMENTS

Approximately 1,462 feet of water main replacement including, but not limited to, 1,342' of 12" ductile iron pipe water main, 31' of 8" ductile iron water main, 89' of 6" ductile iron water main, 28 water services (complete), approximately 117' of sanitary sewer removal and replacement with water main quality pipe, 118' of storm sewer removal and replacement with water main quality pipe, nominal 200' of adjusting sanitary sewer services, 2,224 cubic yards of trench backfill, 550' combination concrete curb and gutter replacement, 1,208 SY of Class D pavement patching, various driveway approach & sidewalk removal & replacement, nominal 100' detector loop replacement, and landscape restoration along West Street, between IL Route 38 (Roosevelt Road) and Childs/Illinois Street in the City of Wheaton.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR

PREQUALIFICATION OF BIDDERS

Effective: 1/1/10

Add the following to Section 102 of the Standard Specifications:

“Each prospective bidder, in evidence of competence, shall furnish the Awarding Authority as a prerequisite to the release of proposal forms by the Awarding Authority, a certified or photo static copy of a “Certificate of Eligibility” issued by the Illinois Department of Transportation, according to the IDOT “Prequalification Manual”.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR

DIRT ON PAVEMENT OR STRUCTURES

Effective: 1/1/10
Revised 1/21/13

Add the following after the first paragraph of Article 107.15 of the Standard Specifications:

“All areas other than pavement shall be cleaned up as directed by the ENGINEER. The CONTRACTOR shall remove all refuse and unused material of any type and clean all areas disrupted from work. This shall include, but not limited to, restoring surface drainage in earthen areas to ensure acceptable surface water runoff.

Failure to comply within 24 hours after receipt of a written or email request from the MUNICIPALITY, shall result in deduction in the contract amount for reimbursement to the MUNICIPALITY to complete this work.”

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR

USE OF FIRE HYDRANTS

Effective: 1/1/10
Revised: 1/21/13

Add the following after the first paragraph of Article 107.18 of the Standard Specifications:

“Water shall be available to the CONTRACTOR free of charge during construction operations. The CONTRACTOR shall be responsible for accountability of water usage by means of a water meter. A water meter is available and may be obtained from the City of Wheaton Water Department for a deposit of Seven Hundred Dollars (\$700) which shall be refunded upon return of the meter in good condition, to the City of Wheaton Water Department.”

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR

DUST CONTROL WATERING

Effective: 1/1/10
Revised: 1/21/13

Add the following after the fourth paragraph of Article 107.36 of the Standard Specifications:

“Dust shall be controlled by sweeping, vacuuming and wetting pavement in a manner to mitigate excessive dust and debris in the pavement. The Contractor shall provide a sweeper at the end of each work week or as directed by the Engineer.

The Contractor shall have a maximum of 4 hours to respond to the Engineers request. Failure to comply with this request shall result in a stoppage of work until the site is hand swept to the Engineer’s satisfaction. The Contractor shall sweep all pavements at the end of the day before 5:00PM or as directed by the Engineer.

Failure to comply shall result in a penalty of \$ 800.00 per day.”

Revise the last paragraph of Article 107.36 to read as follows:

Method of Measurement. The work will be measured for payment in units of ½ hours of sweeping time. The Contractor shall provide the Engineer with copies of sweeping service receipts containing records of the location, date, and number of hours the sweeping equipment was in use in the Municipality.

Basis of Payment. Sweeping and wetting of streets will be paid for at the contract unit price per unit for DUST CONTROL WATERING.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR

DISPOSAL OF EXCAVATED MATERIAL

This work shall consist of meeting IEPA requirements for the disposal of excavated material including, but not limited to, clean construction or demolition debris (CCDD), uncontaminated soil, and/or contaminated soil. **Excavated materials must be removed from the site by the end of each day.**

The contractor is required to use the IDOT approved environmental consultant to perform soil analysis including PH and submit the report to the City prior to the start of construction. The contractor is required to take a minimum of two soil samples per street behind curb at the direction of the environmental consultant.

The Contractor will be responsible to provide CCDD and soil fill site operators with all testing information and fees as required by the IEPA and fill site operators. The City will not provide certification as an owner or operator of the site of origin presuming that excavated soil is uncontaminated. This will require the Contractor to provide fill site operators with IEPA form LPC-663 "Uncontaminated Soil Certification by Licensed Professional Engineer". It will be the Contractor's sole responsibility to dispose all the excavated material classified as CCDD as part of this contract.

Excavated material requiring non-special or special waste disposal will be paid for at the contact unit price per cubic yard for Special/Non-Special Waste Disposal. The contractor is required to submit an invoice from the soil fill site to be paid for all special/non special waste disposals. Soil testing and reporting will be paid for as the contract unit price per EACH for Soil Disposal Analysis.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR

PAVEMENT PATCHING

Add the following paragraph to Article 442.01:

“Class B (also called Type B on the Drawings) patches shall conform to Section 353-Portland Cement Concrete Base Course and Class D (also called Type D on the Drawings) patches shall conform to Section 355 – Hot-Mix Asphalt (HMA) Base Course. Existing pavement is to be removed and replaced in accordance with the Drawings. The quantification sub-types: I, II, III, and IV, shall not apply.”

Delete Note 1 of Article 442.02 and replace with the following:

“Note 1. For Class B pavement patches, Early Strength Patching Mixture as specified in Article 1020.05(g)(1) shall be utilized.”

Add the following paragraph to Article 442.04:

“Roadway restoration activities, except installation of final HMA surface course, shall be carried out such that no more than 1,000 lineal feet of permanent roadway is removed at any one time for each open-cut pipe installation operation; no more than 1,000 feet of permanent roadway is removed per active mainline sewer or water main installation crew; and, such that the period that the permanent roadway removed at any location does not exceed thirty (30) calendar days, without the approval of the Engineer. In no case, however, shall the total length of permanent roadway removed exceed 2,500 lineal feet regardless of the number of open-cut sewer or water main construction operations (active mainline crews) underway.

Installation of final HMA surface shall be completed not later than thirty (30) calendar days after patch/base course installation. All streets, roads, alleys, and drives disturbed in any construction year shall be fully resurfaced and restored, including surface course, by December 1 of that construction year in accordance with Article 108.02 of the Standard Specifications.”

Add the following sentences to the first paragraph of Article 442.05:

“The Contractor shall saw-cut existing pavements to full depth, along the line of the maximum allowable trench width as showing on the Drawings. All excavated material including paving bricks shall be properly disposed of off-site. No drop hammer and/or guillotine-type concrete breakers/cutters shall be utilized for pavement removal. **No earth saw shall be utilized to saw-cut pavement.**”

Add the following sub-paragraph to Article 442.06 Paragraph (a) Subparagraph (2):

“On streets having a concrete base and HMA overlay, PCC concrete base patches will be 2 inches below existing pavement surface.

Add the following to Article 442.08 - Class D Patching:

City of Wheaton
Engineering Department

“(e) Hot-Mix Asphalt Mixture for Patching Potholes (Hot Mix and Cold Mix). This work shall consist of the removal of loose and broken pavement and the construction of a temporary HMA concrete patch on the existing roadway to be used to maintain traffic during construction as specified at locations designated by the Engineer. Between April 15 and December 1, Hot Mix shall be applied and the MHA mixture shall conform to Section 406. Between December 16 and April 14, Cold Mix may be used.”

This work will be paid for at the Contract unit price per SQUARE YARD for CLASS B PATCHES (HIGH EARLY STRENGTH), 9” and CLASS D PATCHES of the thickness shown on the Drawings, measured in place. Payment shall be made for the quantity of patch actually installed within the pay limits shown on the Drawings or as directed by Engineer.

These Contract unit prices shall be payment in full for all materials, labor and equipment required for: saw-cutting (full depth), removal, and disposal of existing pavement and sub-base to proposed subgrade; furnishing, placement and final grading of aggregate base course, new paving materials and installation; furnishing and installing contraction joints, dowel bars, and expansion joints as required; finishing and additional reinforcement where required for concrete pavement; and related work required to complete the installation which is not included in other Payment Items.

For Class B and Class D Patches, the quantities for payment purposes shall be based on the maximum allowable width of the trench at the top of the subgrade. This payment width shall not exceed a maximum dimension as indicated by the details shown on the Drawings. The length of removal and replacement shall be measured along the centerline of the pipe over which removal and replacement is made. Length of removal and replacement for all patching shall include distances through manholes and other structures.

For Class D Patches, the payment thickness shall be: 11” HMA Binder Course thickness and 2” HMA Surface Course thickness for non-milled surfaces.

Additional pavement removal and replacement beyond the maximum pay widths shown on the Drawings required to complete the Work or for Contractor's purposes shall be considered incidental to combined sewer, relief sewer, storm sewer, sanitary sewer, and watermain construction and no separate payment shall be made.

Additional aggregate base course outside the pay limits shown on the Drawings required to complete the Work or for Contractor's purposes shall be considered incidental to combined sewer, relief sewer, storm sewer, and sanitary sewer construction and no separate payment shall be made.

SPECIAL PROVISION
FOR

RECLAIMED ASPHALT PAVEMENT

Revise Section 1031 of the Standard Specifications to read:

1031.01 Description. Reclaimed asphalt pavement shall be according to the following.

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material produced by cold milling or crushing an existing hot-mix asphalt (HMA) pavement. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.

1031.02 Stockpiles. RAP stockpiles shall be according to the following.

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. "Homogeneous Surface"). Prior to milling, the Contractor shall request the District provide documentation on the quality of the RAP to clarify the appropriate stockpile.
 - (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. All FRAP shall be fractionated prior to testing by screening into a minimum of two size fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP shall pass the sieve size specified below for the mix into which the FRAP will be incorporated.

| Mixture FRAP will be used in: | Sieve Size that 100 % of FRAP Shall Pass |
|-------------------------------|--|
| IL-19.0 | 1 1/2 in. (40 mm) |
| IL-9.5 | 3/4 in. (20 mm) |
| IL-4.75 | 1/2 in. (13 mm) |

- (2) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogeneous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.
 - (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or

City of Wheaton
Engineering Department

quality, but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag.

- (4) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP/FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

1031.03 Testing. RAP/FRAP testing shall be according to the following.

- (a) RAP/FRAP Testing. When used in HMA, the RAP/FRAP shall be sampled and tested either during or after stockpiling.
- (1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).
- (2) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Each sample shall be split to obtain two equal samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

1031.04 Evaluation of Tests. Evaluation of test results shall be according to the following.

- (a) Evaluation of RAP/FRAP Test Results. All of the extraction results shall be compiled and averaged for asphalt binder content and gradation, and when applicable Gmm. Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

City of Wheaton
Engineering Department

| Parameter | FRAP/ Homogeneous/ Conglomerate |
|-------------------|---------------------------------------|
| 1 in. (25 mm) | |
| 1/2 in. (12.5 mm) | ± 8% |
| No. 4 (4.75 mm) | ± 6% |
| No. 8 (2.36 mm) | ± 5% |
| No.16 (1.18 mm) | |
| No. 30 (600 μm) | ± 5% |
| No. 200 (75 μm) | ± 2.0 % |
| Asphalt Binder | ± 0.4 % ^{1/} |
| G _{mm} | ± 0.03 |

1/ The tolerance for FRAP shall be ± 0.3 %.

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, the RAP/FRAP shall not be used in HMA unless the RAP/FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the ITP, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)".

1031.05 Quality Designation of Aggregate in RAP/FRAP.

- (a) RAP. The aggregate quality of the RAP for homogeneous and conglomerate stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.
 - (1) RAP from Class I, Superpave/HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
 - (2) RAP from Class I binder, Superpave/HMA (High ESAL) binder, or (Low ESAL) IL-19.0L binder mixtures are designated as containing Class C quality coarse aggregate.
- (b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

If the quality is not known, the quality shall be determined as follows. Coarse and fine FRAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5000 tons (4500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant laboratory prequalified by the Department for the specified testing.

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The consultant laboratory shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the Bureau of Materials and Physical Research Aggregate Lab for MicroDeval Testing, according to ITP 327. A maximum loss of 15.0 percent will be applied for all HMA applications.

1031.06 Use of RAP/FRAP in HMA. The use of RAP/FRAP shall be the Contractor's option when constructing HMA in all contracts.

- (a) The use of RAP/FRAP in HMA shall be as follows.
- (1) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
 - (2) Steel Slag Stockpiles. Homogeneous RAP stockpiles containing steel slag will be approved for use in all HMA (High ESAL and Low ESAL) Surface and Binder Mixture applications.
 - (3) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be FRAP or homogeneous in which the coarse aggregate is Class B quality or better. RAP/FRAP from Conglomerate stockpiles shall be considered equivalent to limestone for frictional considerations. Known frictional contributions from plus #4 (4.75 mm) homogeneous RAP and FRAP stockpiles will be accounted for in meeting frictional requirements in the specified mixture.
 - (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP, homogeneous, or conglomerate, in which the coarse aggregate is Class C quality or better.
 - (5) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, homogeneous, or conglomerate.
 - (6) When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated below for a given Ndesign.
 - a. RAP. When RAP is used, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the Max RAP ABR table listed below for the given Ndesign.

RAP Maximum Asphalt Binder Replacement (ABR) Percentage

| HMA Mixtures ^{1/} _{2/} | RAP Maximum ABR % | | |
|---|---------------------------|---------|---------------------|
| Ndesign | Binder/Leveling Binder | Surface | Polymer Modified |
| 30 | 30 | 30 | 10 |
| 50 | 25 | 15 | 10 |
| 70 | 15 | 10 | 10 |
| 90 | 10 | 10 | 10 |

1/ For Low ESAL HMA shoulder and stabilized subbase, the RAP ABR shall not exceed 50 percent of the mixture.

2/ When RAP ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28). If warm mix asphalt (WMA) technology is utilized and production temperatures do not exceed 275 °F (135 °C), the high and low virgin asphalt binder grades shall each be reduced by one grade when RAP ABR exceeds 25 percent (i.e. 26 percent RAP ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).

- b. FRAP. When FRAP is used, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the FRAP table listed below for the given Ndesign.

FRAP Maximum Asphalt Binder Replacement (ABR) Percentage

| HMA Mixtures ^{1/} _{2/} | RAP Maximum ABR % | | |
|---|---------------------------|---------|---------------------------------------|
| Ndesign | Binder/Leveling Binder | Surface | Polymer Modified ^{3/, 4/} |
| 30 | 50 | 40 | 10 |
| 50 | 40 | 35 | 10 |
| 70 | 40 | 30 | 10 |
| 90 | 40 | 30 | 10 |

1/ For Low ESAL HMA shoulder and stabilized subbase, the FRAP ABR shall not exceed 50 percent of the mixture.

2/ When FRAP ABR exceeds 20 percent for all mixes, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28). If warm mix asphalt (WMA) technology is utilized and production temperatures do not exceed 275 °F (135 °C), the high and low virgin asphalt binder grades shall each be reduced by one grade when FRAP ABR exceeds 25 percent (i.e. 26 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).

3/ For SMA the FRAP ABR shall not exceed 20 percent.

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4/ For IL-4.75 mix the FRAP ABR shall not exceed 30 percent.

1031.07 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP material meeting the detailed requirements specified herein.

- (a) RAP/FRAP mix designs shall be submitted for verification. If additional RAP/FRAP stockpiles are tested and found that no more than 20 percent of the results, as defined under "Testing" herein, are outside of the control tolerances set for the original RAP/FRAP stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP/FRAP stockpiles may be used in the original mix design at the percent previously verified.

1031.08 HMA Production. HMA production utilizing RAP/FRAP shall be as follows.

- (a) The coarse aggregate in all RAP/FRAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced. To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer. If the RAP/FRAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP/FRAP and either switch to the virgin aggregate design or submit a new RAP/FRAP design.
- (b) HMA plants utilizing RAP/FRAP shall be capable of automatically recording and printing the following information.
 - (1) Dryer Drum Plants.
 - a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
 - d. Accumulated dry weight of RAP/FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
 - e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
 - f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
 - g. Residual asphalt binder in the RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.
 - h. Aggregate and RAP/FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP/FRAP are printed in wet condition.)
 - (2) Batch Plants.
 - a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).

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- d. Mineral filler weight to the nearest pound (kilogram).
- e. RAP/FRAP weight to the nearest pound (kilogram).
- f. Virgin asphalt binder weight to the nearest pound (kilogram).
- g. Residual asphalt binder in the RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

1031.09 RAP in Aggregate Surface Course and Aggregate Wedge Shoulders, Type B.

The use of RAP in aggregate surface course (temporary access entrances only) and aggregate wedge shoulders, Type B shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used shall be according to the current Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".
- (b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted."

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SPECIAL PROVISION
FOR

PROGRESS SCHEDULE

Effective: 3/1/12

Add the following after the second paragraph of Article 108.02 of the Standard Specifications:

Work on each street (or subdivision) must proceed in a continuous manner. Each street (or subdivision) shall be considered by the contractor as a contract within itself. Each phase of work such as underground, patching, concrete curb and gutter, concrete flatwork, paving, landscaping, etc., shall begin within three (3) days of the completion of the previous controlling phase. Should the contractor fail to begin working on a controlling phase within three (3) days of completion of the previous phase on each street (or subdivision), or within such extended time as may have been allowed, the contractor shall be liable to the owner in the amount of \$1,000.00 per calendar day, not as a penalty, but as liquidated damages, for each day beyond the third day after completion of the previous controlling work phase.

The Special Provisions specify the number of working days required to complete each street or subdivision. The contractor shall be held responsible for complying with this schedule unless he submits a revised written work-day schedule to the engineer for each street and/or subdivision under this contract.

The Contractor shall provide a construction schedule by the time of the preconstruction conference.

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SPECIAL PROVISION
FOR

ONE YEAR GUARANTEE

Effective: 1/1/10
Revised: 1/21/13

Any defective material, or workmanship, or any unfaithful or imperfect work, which may be discovered before the final acceptance of the work and/or within one (1) year thereafter, shall be corrected immediately on the requirements of the Engineer, without extra charge, notwithstanding that it may have been overlooked in the previous inspections and estimates. Failure to review construction shall not relieve the Contractor from any obligation to perform sound and reliable work as herein described.

To insure compliance with this provision, the Contractor shall provide the City with a Maintenance Bond for 10 percent of the final contract amount. This Bond shall cover a period of one (1) year from the date of final acceptance, which shall be defined as the date of the final payment estimate.

The Contractor warrants to the Owner and Engineer that all materials and equipment furnished under the Contract will be new and, in the case of equipment, in good working order, that all materials, equipment and labor furnished under the Contract will be free from defects of any kind and shall be in strict conformance with the contract requirements. This warranty shall not be restricted by the limitations of any manufacturer's warranty. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. Liability or refusal of a Subcontractor or equipment supplier responsible for the defective work or materials, to correct or replace same, shall not excuse the Contractor from performing under this warranty.

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SPECIAL PROVISION
FOR

TRENCH BACKFILL

Effective: 1/1/10

Add the following after the first paragraph of Article 208.01 of the Standard Specifications:

“Compaction shall be done by mechanical means whenever possible. Jetting shall be permitted only when mechanical means are not possible. Compaction shall be a minimum of 95% of the maximum laboratory density for CA-6 gravel. The Engineer shall determine when jetting is permitted. The Contractor shall receive written permission from the Engineer to perform jetting in lieu of mechanical compaction.”

Add the following after the first paragraph of Article 208.02 (b) of the Standard Specifications:

“Trench backfill shall be a well graded granular material equivalent to I.D.O.T. CA-6, per Section 1004 of the Standard Specifications.”

Add the following after the first paragraph of Article 208.03 (b) of the Standard Specifications:

“The actual quantity shall be computed using the State of Illinois Department of Transportation Division of Highways Trench Backfill Table adopted January 1, 2002.”

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR

TOPSOIL FURNISH AND PLACE

Effective: 1/1/11
Revised: 1/21/13

Add the following after the first paragraph of Article 211.01 of the Standard Specifications.

“All areas in that portion of the parkway adjacent to curb replacement sections, sanitary or storm sewer replacement, or water main installations disturbed during construction shall be restored.”

Add the following after the first paragraph of Article 211.04 of the Standard Specifications.

“Prior to the top soil placement, the disturbed parkway areas shall be inspected by the Engineer and authorization received by the Contractor to proceed with the work as specified herein. Contractor shall provide a minimum of 4” of topsoil to finished elevation.

Add the following after the first paragraph of Article 211.05 of the Standard Specifications.

“The parkway shall be cleared of all debris and all trenches shall be fully compacted. Topsoil shall then be placed at the specified depth and rolled. The surface shall be leveled by having all depressions filled and high spots removed.”

Revise Article 211.07(b) of the Standard Specification to read:

“Topsoil furnish and place shall be that material obtained from outside the right-of-way and will be measured in cubic yards as documented delivered to the site.”

Revise Article 211.08 of the Standard Specification to read:

“This work will be paid for at the contract unit price per cubic yard for **TOPSOIL FURNISH AND PLACE.**”

It will be the responsibility of the Contractor to notify the Engineer once all the required waterings have been completed. If it is determined that additional watering will be required, the Engineer will notify the Contractor to proceed with supplemental watering for a determined amount of time.

The Contractor shall secure a separate water meter for watering sod and seed. Failure to comply shall result in no payment for **SUPPLEMENTAL WATERING.**

Restoration of parkways shall be completed no later than **September 15, 2017.** Failure to restore all areas by **September 15, 2017**, shall result in liquidation damages.

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SPECIAL PROVISION
FOR

SODDING

Effective: 1/1/10

Work shall be in accordance with Section 252 of the Standard Specifications, except that the sod shall be rolled prior to watering.

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SPECIAL PROVISION
FOR

INLET FILTERS

Effective: 1/1/10

Add the following after the second subparagraph of Article 280.04(c) of the Standard Specification:

“Inlet Filter Systems shall be the “Catch-All” with Overflow, as furnished by MarMac Manufacturing Co., or approved equal.

The Filter bag shall be constructed of a polypropylene filter geotextile fabric with a minimum weight of 4 ounces per square yard, a minimum flow rate of 145 gallons per minute per square foot, and designed for a minimum silt and debris capacity of 2 cubic feet. The filter bag shall be reinforced with a polyester mesh fabric with a minimum weight of 4 ounces per square yard. The filter bag shall be suspended from a galvanized steel ring, or frame conforming to ASTM-A36, utilizing a stainless steel band and locking clamp. The frame shall be designed with an overflow feature to prevent any ponding between scheduled cleanings.”

Add the following after first paragraph of Article 280.05 of the Standard Specifications:

“The Contractor shall inspect, and clean all inlet erosion control every week or after a half inch rainfall, or as directed by the Engineer.”

Revise the second paragraph of Article 280.08 of the Standard Specifications to read:

“Maintenance of temporary erosion control systems shall be included in the cost of this item.”

Revise the second paragraph of Article 280.08(d) of the Standard Specifications to read:

“All costs for furnishing, installing, and maintaining inlet filters, shall be paid for at the contract unit price per each for **INLET FILTERS**.”

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SPECIAL PROVISION
FOR

TREE ROOT PRUNING

Effective: 1/1/11

Add the following after the first paragraph of Article 201.06 of the Standard Specifications:

“A copy of a letter of qualification shall be provided to the Engineer for inspection.”

Add the following after the second paragraph of Article 201.06 of the Standard Specifications:

“All cut roots exposed shall be cleared from the site and disposed of without any additional compensation for the work.”

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SPECIAL PROVISION
FOR

PORTLAND CEMENT CONCRETE SIDEWALK

Effective: 1/1/10

Add the following after the first paragraph of Article 424.04 of the Standard Specifications:

“Aggregate base shall be installed with CA-6 Granulated material to a minimum depth of 4 in. to provide a suitable base on which to pour the sidewalk.”

Add the following after the second paragraph of Article 424.06 of the Standard Specifications:

“The contractor shall apply a Concrete Curing Sealant, which shall be included in the contract unit price.”

Revise the third paragraph of Article 424.13 of the Standard Specifications to read:

“Earth excavation and disposal of surplus or waste material shall be included in the contract unit price.”

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SPECIAL PROVISION
FOR

CONCRETE CURING AND SEALING

Effective: 1/1/10

Curing and sealing of all concrete gutter flags, faces and tops of curbs, sidewalks, and driveway pavements shall utilize the membrane curing method in accordance to Article 1020.13(a)(4) of the Standard Specifications.

Concrete curing materials shall be in accordance to Article 1022.01 of the Standard Specification except the Contractor shall use W.R. Meadows Vocomp-20 Cure and Seal or approved equal.

All flat surfaces that are not cured by membrane curing compounds shall have protective coat applied to them in accordance to Article 1023 of the Standard Specification if conditions prohibit application of cure and seal products.

All labor, equipment, and materials necessary to complete this work shall be included in the cost of the concrete items.

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SPECIAL PROVISION
FOR

COMBINATION CURB AND GUTTER REMOVAL

Effective: 1/1/11

Revise the fourth paragraph of Article 440.01, and the fourth paragraph of Article 440.03 of the Standard Specifications to read:

“Gutter removal and combination curb and gutter removal shall only include the complete removal of all inlets, outlets, and entrances if shown on the plans or as directed by the Engineer. Any removal of outlets shall include the entire discharge trough and end curtain wall for trough type outlets and the concrete box and outlet pipe for drop box type outlets.”

Add the following after the first paragraph of Article 440.03 of the Standard Specifications:

“The Contractor shall machine saw a full-depth joint between the portion of the curb and gutter to be removed and the bituminous surface to be left in place unless otherwise directed by the Engineer. The sawing shall be accomplished with a concrete sawing machine to prevent the surface from spalling when the concrete is broken out. This work shall be done in such a manner that a straight joint shall be secured. None of the removed material shall be stockpiled on the site unless it is approved as backfill by the Engineer.”

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SPECIAL PROVISION
FOR

DETECTABLE WARNINGS

Detectable warning tiles shall follow Article 424.09 with exception that the contractor shall provide samples to the engineer for approval prior to use.

Amend Article 424.12 to read as follow: Measurement of panel installed shall be computed and paid for as EACH

Revise the last paragraph of Article 424.13 of the Standard Specifications to read:

This item shall be paid for at the contract unit price per square foot for **DETECTABLE WARNINGS**, which price shall be considered full compensation for all labor, equipment, and materials necessary for installation.

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SPECIAL PROVISION
FOR

CLASS D PATCHES

Effective Date 1/1/10

Work shall be in accordance to Section 442 of the Standard Specifications except for:

“Areas of sewer or water main construction, the work shall consist of full-depth removal of the existing pavement over areas of proposed construction. The Contractor shall machine saw a perpendicular, full-depth, and clean joint between the portion of pavement to be removed and that to be left in place to prevent damage to the remaining pavement during removal operations.

The cost of full-depth machine sawing shall be included in the unit price of this item and no additional compensation will be given for this work.

All patching under this line item shall be completed within seventy-two hours after the underground work has been accomplished.”

Revise the fourth paragraph of Article 442.05 of the Standard Specification to read:

“The unit cost of this item shall include the disposal of materials resulting from the removal of the existing pavement and unsuitable and unstable materials.”

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SPECIAL PROVISION
FOR

STORM SEWERS

Work shall be in accordance to Section 550 of the Standard Specifications except for the following:

The Owner shall provide T.V. reports, if available.

Polyvinyl Pipe (PVC) Sewer Pipe Joints shall be solvent welded joints per ASTM D 2855 or flexible elastomeric seals per ASTM D 3212.

Once all underground work has been completed, the Contractor shall patch the areas with **CLASS D PATCHES**, of the type and thickness specified. All pavement patching required as a result of this line item shall be completed no more than 72 hours after the underground work is completed.

The location and re-connection of all existing sewer services shall be the responsibility of the Contractor and shall be included in the cost of this line item.

End treatments, pipe tees, and elbows shall be included in the cost of the pipe.

Removal and replacement of unsuitable material below plan bedding grade shall be paid for in accordance with Article 109.04 of the Standard Specifications

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SPECIAL PROVISION
FOR

SANITARY SEWERS

Work shall be in accordance to Section 550 of the Standard Specifications except for the following:

The Owner shall provide T.V. reports, if available.

Polyvinyl Pipe (PVC) Sewer Pipe Joints shall be solvent welded joints per ASTM D 2855 or flexible elastomeric seals per ASTM D 3212.

Once all underground work has been completed, the Contractor shall patch the areas with **CLASS D PATCHES**, of the type and thickness specified. All pavement patching required as a result of this line item shall be completed no more than 72 hours after the underground work is completed.

The location and re-connection of all existing sewer services shall be the responsibility of the Contractor and shall be included in the cost of this line item.

End treatments, pipe tees, and elbows shall be included in the cost of the pipe.

Removal and replacement of unsuitable material below plan bedding grade shall be paid for in accordance with Article 109.04 of the Standard Specifications

This work shall be paid for at the contract unit price per foot for **SANITARY SEWERS**, of the class, type, and diameter specified and of the kind of material when specified.

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SPECIAL PROVISION
FOR

WATER MAIN

Effective: 3/2/12

Revise the first paragraph Article 561.02 of the Standard Specifications to read:

Materials. Trenched water mains shall be Class 52 Ductile Iron pipe with push-on joints, and shall conform to Specification AWWA-C151. The exterior of ductile iron pipe shall be coated with a layer of arc-sprayed zinc per ISO 8179. The mass of the zinc applied shall be 200 g/m² of pipe surface area. A finishing layer topcoat shall be applied to the zinc. The coating system shall conform in every respect to ISO 8179-1 "Ductile iron pipes – External zinc-based coating – Part 1: Metallic zinc with finishing layer. Second edition 2004-06-01."

All joints within casings shall use a restraining gasket - American Fast-Grip, US Pipe Field Lok, or approved equal. Mechanical joints shall be used at all tees, crosses, and other fittings at locations shown on the Plans, and shall be installed strictly in accordance with the manufacturer's instructions.

Horizontal directional drilled water main shall be Class 52 restrained joint - American Flex Ring, US Pipe TR Flex, or approved equal. Mechanical joints shall be used at all tees, crosses, and other fittings at locations shown on the Plans, and shall be installed strictly in accordance with the manufacturer's instructions. **Substitution of this material shall not be permitted.** All horizontal directional drilled water main shall be double wrapped with polyethylene encasement.

Water main shall be installed in accordance with Section 561 of the Standard Specifications. Excavation, backfilling, installation, and separation of water mains shall be in accordance with Section 41 of the Standard Specifications for Water and Sewer Main Construction in Illinois. The requirements of the Illinois Department of Public Health shall govern the horizontal and vertical separation of water mains from sewers.

All chlorination or flushing taps shall be a minimum two (2) inch diameter. Taps shall be provided by the contractor and be included in the cost of the water main installation.

Add the following to the first paragraph Article 561.03 of the Standard Specifications:

Any existing valves or water services that are to be abandoned due to the installation of the new water main shall have the box extensions removed and the surrounding area patched or landscaped as the case may be.

Tees installed on the new water main shall have mechanical joint plugs installed for testing purposes. All such plugs shall be removed and salvaged by the contractor after the new water main has been successfully tested and chlorinated. This work shall be considered included to the cost of **WATER MAIN** of the diameter specified.

Delete the second paragraph of Article 561.03(b) of the Standard Specifications.

Revise the first paragraph Article 561.04 of the Standard Specifications to read:

Method of Measurement. The water main will be measured for payment in place in feet along the centerline of the pipe with no deductions made for valves, tees, bends, and crosses. Tees, bends, crosses, and thrust blocking shall not be measured for payment separately, but shall be considered included to the cost of water main of the diameter specified.

Revise the first paragraph Article 561.05 of the Standard Specifications to read:

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Basis of Payment. This work will be paid for at the contract unit price per foot for **WATER MAIN** of the material, joint type, installation method and diameter specified. This price will include the cost of installation of a new corporation stop and 45° brass "L" for each service being connected to the new main as shown on the plans or as directed by the Engineer, all pipe, fittings, tees, bends, beveled pipe, reducers, joint materials, the hydrostatic tests, all excavation (except excavation in rock), backfilling, thrust blocking (concrete), pipe bedding, and all appurtenances necessary to construct the water main.

The price shall include the reconnection of all short side services where no new copper is needed to connect to the new water main.

Pavement removal and replacement shall be measured and paid for separately.

All costs incurred to abandon the valves and water services shall be included in the cost of installing the new water main.

All new water mains and services shall be inspected with leak detection equipment immediately after installation of water main and one year after the completion of work.

The Contractor shall make provisions to hire a qualified contractor to verify leaks identified by the City. No additional compensation shall be provided but instead shall be considered included in the contract.

De-chlorination of water discharged from the new water main shall follow criteria established by the Environmental Protection Agency (EPA). No additional compensation shall be given to perform this work, but instead, this work shall be included in the cost of the contract.

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SPECIAL PROVISION
FOR

POLYETHYLENE ENCASUREMENT, SPECIAL

Effective: 3/2/12

Description. This work shall consist of installing polyethylene encasement on all ductile iron pipe and underground water main appurtenances.

General. All ductile iron waterman and fittings shall be encased in polyethylene wrap and secured with polyethylene tape.

Materials: The materials shall conform to AWWA Standard Specifications for polyethylene encasement for gray and ductile cast-iron piping for water and other liquids, ANSI/AWWA C105/A21.5. In addition, polyethylene encasement for use with ductile iron pipe systems shall consist of three layers of co-extruded linear low density polyethylene (LLDPE), fused into a single wall thickness of not less than 8 mils. The inside surface of the polyethylene wrap to be in contact with the pipe exterior shall be infused with a blend of anti-microbial biocide to mitigate microbiologically influenced corrosion and a volatile corrosion inhibitor to control galvanic corrosion.

Ductile iron pipe and the polyethylene encasement used to protect it shall be installed in accordance with AWWA C600 and ASNI/AWWA C105/A21.5 and also in accordance with all recommendations and practices of the AWWA M41, "Manual of Water Supply Practices - Ductile Iron Pipe and Fittings". Specifically, the wrap shall be overlapped one foot in each direction at joints and secured in place around the pipe and any wrap at tap locations shall be taped tightly prior to tapping and inspected for any needed repairs following the tap. All installations shall be carried out by personnel trained and equipped to meet these various requirements.

Horizontal Directional Drilled water main shall have two layers of polyethylene encasement applied as per ANSI/AWWA C105/A21.5 and Ductile Iron Pipe Research Association's "Horizontal Directional Drilling with Ductile Iron Pipe".

Method of Measurement. This work will be measured for payment in place in feet. Where 2 or more layers of polyethylene encasement are specified, each layer shall be measured separately.

Basis of Payment. This work will be paid for at the contract unit price per foot for **POLYETHYLENE ENCASUREMENT**. No additional compensation shall be given for the difference in cost between varying diameters of polyethylene encasement.

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SPECIAL PROVISION
FOR

WATER SERVICE LINE

Effective: 1/1/10

This work shall consist of replacing water service lines as shown on the Plans and Details. The diameters are given to the best of the City's knowledge for bidding purposes. It is the contractor's responsibility to determine the actual diameter. No additional compensation shall be given for varying diameters of water service lines.

The construction of the water service line shall be in accordance with Section 562 of the Standard Specifications, unless specified otherwise in these Special Provisions. The existing water service line shall be replaced with Type K copper pipe.

All "far side" water services shall be jacked or augured. Open cut installation shall only be permitted at the direction of the Engineer. If the existing "far side" service is copper, it shall be connected to the new water main without being replaced. Compression couplings shall be permitted.

This work shall be paid for at the contractor unit price per **LINEAL FOOT** for **WATER SERVICE LINE** of the inside diameter specified, measured in-place. This price shall include the cost of all materials and all excavation, except excavation in rock. No additional compensation shall be given for water service diameters that differ from diameters shown on the Plans. This price shall include all labor, equipment, and materials necessary to "push" the service under the roadway and for disconnection of the existing service.

All other pavement removal and replacement shall be measured and paid for separately. All patching as a result of this line item shall be completed immediately after the underground work is completed.

Trench backfill shall be measured and paid for as provided in Section 208 of the Standard Specifications.

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SPECIAL PROVISION
FOR

ADJUSTING SANITARY SEWERS AND WATER SERVICE LINES

Work shall be accordance to Section 563 of the Standard Specifications except for the following:

- a) Storm and sanitary sewer services shall be SDR-26.
- b) Existing "Y" or "T" connection on the sewer main shall be replaced and connected to the existing sewer main by means of the specified grade of PVC pipe and compression couplings.

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SPECIAL PROVISION
FOR

CUT-IN CONNECTION

TEG Rev. 01/16

Description of Work. This work shall include all labor and materials necessary to connect the new water main to an existing main. This shall involve the saw cutting and removal of pavement, excavation of all material necessary to remove old fittings, the removal of existing connection fittings and pipe (tee, cross, sleeves, valves, valve vaults, etc.), and all backfill necessary to restore excavated area to previous grade.

Work shall be staged in such a way as to maximize the number of cut-in connections that can be performed per each shutdown of an existing water main. No shutdowns of water main will be allowed on Fridays or Mondays without prior approval by the Engineer.

Method of Measurement. Measurement for this item shall be on an EACH basis per location of connection.

Basis of Payment. This item shall be paid for per each for CUT-IN CONNECTION, which shall include any saw cutting of pavement, pavement removal, excavations, cutting and removal of fittings and pipe, cleaning and prepping pipe for connection, and all backfill necessary to bring hole to original grade. All newly installed water main and fittings shall be paid for as DUCTILE IRON PIPE, of the size specified, and DUCTILE IRON FITTINGS respectively.

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SPECIAL PROVISION
FOR

FIELD LOK GASKETS FOR DI WATER MAIN

TEG Rev. 07/14

Description. For water main approaching or exiting any horizontal or vertical bend fitting, within casing pipes, and all push-on joints shall have “Field LOK Gaskets”. The pipe length restrained by Field LOK Gaskets at each side of the bend shall be 20 linear feet.

Materials. Joint restraints shall be Field LOK 350 Gaskets as manufactured by US Pipe. Field LOK Gaskets shall be compatible with the ductile iron, cement-lined asphaltic coating or paint, push-on joint, thickness class 52, of the size as designated in the Plans.

Shop Drawings. Shop drawings of all items related to the manufacturer and installation of the Field LOK Gaskets shall be submitted and approved by the Engineer.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per each for FIELD LOK GASKETS FOR DI WATER MAIN, of the diameter specified, measured in place. This price shall include the cost of all joint materials and labor necessary to complete this work as specified.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR

FILLING VALVE VAULTS WITH VALVE BOX

Work shall be accordance to Section 605 of the Standard Specifications except:

The first paragraph of Article 605.04 will be revised to include the installation of a new valve box on the existing valve prior to the backfilling the vault.

The third paragraph of Article 605.06 will be revised to include **FILLING VALVE VAULTS WITH VALVE BOX** as a listed pay item. Which price shall include the supply and installation of a new valve box.

Disposal of all materials resulting from the filling or removing existing valve vaults shall be considered included in the cost of the item.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR

VALVE BOXES TO BE REMOVED

TEG Rev. 07/14

Description. This work shall consist of the removal of valve boxes from the abandoned water main.

General. After installation and testing of the proposed water main, valve boxes on the existing water main to be abandoned shall be removed. The existing valve box shall be removed and disposed of by the Contractor. All excavation necessary shall only be sufficient to remove the existing valve box.

Method of Measurement. This work will be measured for payment as each. Each removed valve box will be considered one each.

Basis of Payment. This item will be paid for at the contract unit price per each for **VALVE BOX TO BE REMOVED**, which price shall be considered full compensation for all labor, equipment, and materials necessary to perform the work to the satisfaction of the Engineer.

Pavement removal and trench backfill required for this item shall not be paid for separately but shall be considered included in the cost of this item.

SPECIAL PROVISION
FOR

**CATCH BASIN, MANHOLE, INLET, DRAINAGE STRUCTURE,
AND VALVE VAULT CONSTRUCTION, ADJUSTMENT, AND
RECONSTRUCTION**

Effective: 1/1/10

Delete Note 2 of Article 602.02 of the Standard Specification.

Revise Note 3 of Article 602.02 of the Standard Specification to read:

“Multi-Purpose Rubber Adjustment Riser Rings shall be used (Metal adjustment rings shall NOT be permitted). The rubber adjustment rings shall conform to ASTM Standards (C-642-90, D-2240, D412-87, D 575, D 395, C672-91, C531-85, and D573-88) or approved equal. Beveled rings shall be used in cases were the surface slopes differ in elevation. **Brick shims are not permitted. The contractor shall use butyl mastic between the frame and rings. Roofing tar or other products other than butyl mastic shall not be permitted.** If it is determined that unsuitable materials were used for adjustments, the Contractor shall remove all material and re-adjust the structure to the Engineer’s satisfaction. Failure to correct the situation shall result in withholding payment for the adjustment of the structure.

When the Plans indicate the adjustment of an existing sanitary manhole, the adjustment shall include the reinstallation of the existing chimney seal or the installation of a new chimney seal, as the case may be.”

Add the following after the first paragraph of Article 602.07 of the Standard Specifications:

“The Contractor shall provide and install a precast reinforced concrete sanitary manhole with a one piece integral base and bench section. All pipe connections are to be made with a pre-installed synthetic rubber sleeve with stainless steel clamps. All joints between barrel sections, rubber riser rings, and frames shall be sealed with a flexible butyl gasket material, such as "E-Z Stick", "Ram Neck" or approved equal. In addition, the casting, risers, and cone section shall be sealed by the use of an internal chimney seal conforming to ASTM C-923 or approved equal. The sanitary manhole detail as shown on the plans shall be included under this Special Provision by reference.”

Add the following after the second paragraph of Article 602.11(c) of the Standard Specifications:

“The Contractor shall postpone placing the final surface course for 48 hours in order to inspect all adjusted structures which are within the paved areas. If it is determined that the structure is incorrectly adjusted, the Contractor shall make the necessary repairs to the structure prior to the placement of the final surface. No additional compensation shall be made for this item, but instead, shall be considered included in the cost of this item.

The salvaged castings shall be stored at a convenient location on the job site for pick up by the Municipality.”

Add the following after the second paragraph of Article 602.13 of the Standard Specifications:

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“The Contractor shall verify all invert elevations and pipe configurations in manholes prior to ordering the new structure. All pipe connections to the precast reinforced concrete sanitary manhole structure shall be made with a pre-installed synthetic rubber sleeve. No exceptions shall be made because of the Contractor's failure to complete adequate investigation before ordering materials. The Engineer shall make every reasonable attempt to confirm the configurations of the delivered manholes before the existing structure is removed. The failure of the Engineer, or his representative, to identify improperly manufactured structures does not alleviate the Contractor of his responsibility in this regard. Failure to install manholes to these specifications will result in non-payment of the structure until the structure is replaced to the satisfaction of the Engineer.”

Where a new structure is replacing an existing structure of similar dimensions, all pipe connections shall be reconnected to the new structure with pipe of the same size.

Pipe material for storm sewer structures shall be PVC SDR-26, if the existing pipe is vitrified clay pipe. Pipe replacement of all other types shall be identical to that of the existing pipe. Pipe material for sanitary sewer structures shall be PVC SDR-26 when the existing line is vitrified clay pipe. **NON-SHEAR TYPE Fernco, Mission or approved equal couplings** shall be used when connecting pipe of different materials.”

Revise the first paragraph of Article 602.16 of the Standard Specifications to read:

Basis of Payment. When new construction is specified, this work will be paid for at the contract unit price per each for **CATCH BASINS, MANHOLES, SANITARY MANHOLES WITH CHIMNEY SEALS, INLETS, DRAINAGE STRUCTURES, or VALVE VAULTS**, of the type or type and diameter specified, and with the type of frame and grate or frame and lid specified or median inlet number specified.

For bidding purposes, the manhole and sanitary manhole line items have specified depths less than or equal to eight feet (<8') and greater than eight feet (>8').

When adjustment or reconstruction is specified and existing frames, grates, and lids are to be used, this work will be paid for at the contract unit price per each for **CATCH BASINS TO BE ADJUSTED, CATCH BASINS TO BE RECONSTRUCTED, MANHOLES TO BE ADJUSTED, MANHOLES TO BE RECONSTRUCTED, SANITARY MANHOLES TO BE ADJUSTED** with chimney seals; **SANITARY MANHOLES TO BE RECONSTRUCTED** with chimney seals; **INLETS TO BE ADJUSTED, INLETS TO BE RECONSTRUCTED, VALVE VAULTS TO BE ADJUSTED, or VALVE VAULTS TO BE RECONSTRUCTED.**

When adjustment or reconstruction is specified and new frames, grates, lids or median inlets are to be used, this work will be paid for at the contract unit price per each for **CATCH BASINS TO BE ADJUSTED WITH NEW FRAME AND GRATE or LID**, of the type specified, or **WITH NEW MEDIAN INLET**, of the number specified; **CATCH BASINS TO BE RECONSTRUCTED WITH NEW FRAME AND GRATE or LID** of the type specified, or **WITH NEW MEDIAN INLET** of the number specified; **MANHOLES TO BE ADJUSTED WITH NEW FRAME AND GRATE or LID** of the type specified, or **WITH NEW MEDIAN INLET** of the number specified; **MANHOLES TO BE RECONSTRUCTED WITH NEW FRAME AND GRATE or LID** of the type specified, or **WITH NEW MEDIAN INLET** of the number specified; **SANITARY MANHOLES TO BE ADJUSTED WITH NEW FRAME AND GRATE or LID** of the type specified and chimney seal, **SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW FRAME AND GRATE or LID** of the type specified and chimney seal; **INLETS TO BE ADJUSTED WITH NEW FRAME AND GRATE or LID** of the type specified, or **WITH NEW MEDIAN INLET** of the number specified; **INLETS TO BE RECONSTRUCTED WITH NEW FRAME AND GRATE or LID** of the type specified, or **WITH NEW MEDIAN INLET** of the number specified; **VALVE VAULTS TO BE**

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ADJUSTED WITH NEW FRAME AND CLOSED LID of the type specified; or **VALVE VAULTS TO BE RECONSTRUCTED WITH NEW FRAME AND CLOSED LID** of the type specified.

Which price shall include all costs for setting or resetting the frame, grate, or lid, or for installing or reinstalling the chimney seal as the case may be, and for all pavement patching. Setting of all frames shall be performed as shown on the plans.”

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SPECIAL PROVISION
FOR

COMBINATION CONCRETE CURB AND GUTTER

Effective: 1/1/10

Add the following after the second paragraph of Article 606.05 of the Standard Specifications:

“Line and grade for the new curb and gutter shall be provided by the Engineer with a minimum three days notice for staking. Any aggregate required under the proposed curb and gutter to bring it to the proposed elevation shall be considered included in the cost of this item.”

Add the following after the first paragraph of Article 606.06 of the Standard Specifications:

“The existing condition of the pavement being rehabilitated necessitates all construction trucks maintain a reasonable distance from the curb and gutter excavation when unloading material into concrete forms or slipform equipment during the placement operations. The material supplier or Contractor shall provide additional trough sections when concrete is delivered to the site. **Any damage caused to the existing pavement by construction vehicles shall be repaired by the Contractor at his cost and to the satisfaction of the Engineer.**”

Add the following after the first paragraph of Article 606.13 of the Standard Specifications:

“Only approved material shall be permitted as backfill behind the new structure. No unsuitable material including sod, leaves, asphalt or concrete debris, or aggregate of any kind shall be used as backfill. The Engineer shall approve all backfill material before it is placed. Prior to placing topsoil or sod, the backfill material shall be compacted to minimize settlement behind the curb.”

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SPECIAL PROVISION
FOR

NON-SPECIAL WASTE DISPOSAL

Revise Article 669.01 of the Standard Specifications to read:

“The Contractor shall be provided with any geotechnical reports pertaining to material testing in compliance with LPC 662 and LPC 663. The Contractor shall at their own expense, have an independent company verify soil analysis results associated with disposal of materials. It shall be the Contractor’s responsibility to dispose of any unsuitable materials in compliance with State of Illinois regulations. The contractor shall provide in writing to the Engineer location and verification of where materials shall be disposed of. “

Add the following paragraph after Article 669.01 of the Standard Specifications:

General - The City has retained a geotechnical consultant to perform material testing for CCDD Compliance. Results are available to the Contractor upon written request to the Engineer. The contractor shall retain their own independent testing company if a dispute with the test result occurs. No additional compensation shall be given to the contractor.

Add the following after the second paragraph of Article 669.19 of the Standard Specifications:

“Payment for disposal of non-special waste shall not exceed planned quantity. Any additional payment for disposal of material beyond planned quantity shall be the responsibility of the contractor.”

SPECIAL PROVISION
FOR

TRAFFIC CONTROL AND PROTECTION

Add the following after the fifth paragraph of Article 701.04 of the Standard Specifications.

“The Contractor shall insure that all traffic control devices installed by him are operational, functional, and effective 24-hours a day, including Sundays and Holidays.

When traffic is to be directed over a detour route, the Contractor shall furnish, erect, maintain and remove all applicable traffic control devices along the detour route according to the details shown in the plans.

The Contractor shall maintain at least one lane of traffic at all times on two lane roads and at least one lane in each direction on four or more lane roads, during the construction of this project. Two flaggers will be required at all times for each separate operation where two-way traffic is maintained over one lane of pavement. The Contractor shall also maintain entrances, side roads, and pedestrian pathways along the proposed improvement. Interference with traffic and pedestrian movements and inconvenience to owners of abutting property and the public shall be kept to a minimum.

Delays to the Contractor caused by complying with these requirements shall be included in the cost of **TRAFFIC CONTROL AND PROTECTION**, and no additional compensation shall be allowed.”

Add the following to the third paragraph of Article 701.18(b) in the Standard Specifications.

“A sufficient quantity of replacement devices based on vulnerability to damage shall be readily available to meet this requirement.”

Revise the third paragraph of Article 701.18(b) of the Standard Specifications to read:

“In an emergency as determined by the Engineer, the Municipality reserves the right to immediately affix temporary repairs, placement of barricades, or provide temporary access at driveways, trench crossing, or pavement rehabilitation areas by Municipality personnel at time and one-half pay rate plus any rental and/or material costs incurred and the Contractor agrees that in such event, the Municipality may charge such costs that may be incurred against the Contractor or his surety.”

Revise Article 701.19 of the Standard Specifications to read:

Method of Measurement: **WORK ZONE TRAFFIC CONTROL AND PROTECTION** will be measured on a lump sum basis.

Revise Article 701.20 of the Standard Specifications to read:

Basis of Payment: This work shall be paid for at the contract lump sum price for **TRAFFIC CONTROL AND PROTECTION**, which price shall be payment in full for all labor, materials, transportation, handling, and incidentals necessary to furnish, install, maintain, replace, relocate, and remove all traffic control devices indicated in the plans and specifications. The salvage value of the materials removed shall be reflected in the bid price for this item.

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SPECIAL PROVISION
FOR

**THERMOPLASTIC PAVEMENT MARKING – LINE
THERMOPLASTIC PAVEMENT MARKING – LETTERS
AND SYMBOLS**

Work shall be accordance to Article 780.04 except all striping under this line item shall be completed within twenty-four (24) hours after all paving is complete

In the event additional time is required, the Contractor shall submit a written request to the Engineer for consideration of delaying striping. Striping shall be applied no later than 5 working days after the initial placement of the final surface.

Failure to stripe within 5 working days shall result in liquidated damages of \$500.00 per day.

SPECIAL PROVISION
FOR

**DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION
(ROADWAY GRINDING, RESURFACING, & PATCHING
OPERATIONS)**

Effective: January 1, 1985
Revised: January 5, 2016
886.02TS

The following Traffic Signal Special Provisions and the "District 1 Standard Traffic Signal Design Details" supplement the requirements of the State of Illinois "Standard Specifications for Road and Bridge Construction" Sections 810, 886, 1079 and 1088.

The intent of this Special Provision is to prescribe the materials and construction methods commonly used to replace traffic signal detector loops and replace magnetic signal detectors with detector loops during roadway resurfacing, grinding and patching operations. Loop detector replacement will not require the transfer of traffic signal maintenance from the District Electrical Maintenance Contractor to this contract's electrical contractor. Replacement of magnetic detector will require wiring revisions inside the control cabinet and therefore the transfer of maintenance will be required. All material furnished shall be new. The locations and the details of all installations shall be as indicated on the Plans or as directed by the Engineer.

The work to be provided under this contract consists of furnishing and installing all traffic signal work as specified on the Plans and as specified herein in a manner acceptable and approved by the Engineer.

Notification of Intent to Work.

Contracts such as pavement grinding or patching which result in the destruction of traffic signal detection require a notification of intent to work and an inspection. A minimum of seven (7) working days prior to the detection removal, the Contractor shall notify the:

- Traffic Signal Maintenance and Operations Engineer at (847)705-4424
- IDOT Electrical Maintenance Contractor at (773) 287-7600

at which time arrangements will be made to adjust the traffic controller timing to compensate for the absence of detection.

Failure to provide proper notification may require the District's Electrical Maintenance Contractor to be called to investigate complaints of inadequate traffic signal timing. All costs associated with these expenses will be paid for by the Contractor at no additional expense to the Department according to Section 109 of the "Standard Specifications."

Acceptance of Material.

The Contractor shall provide:

1. All material approval requests shall be submitted a minimum of seven (7) days prior to the delivery of equipment to the job site, or within 30 consecutive calendar days after the contract is awarded, or within 15 consecutive calendar days after the preconstruction meeting, whichever is first.
2. Four (4) copies of a letter listing the vendor's name and model numbers of the proposed equipment shall be supplied. The letter will be reviewed by the Traffic Design Engineer to determine whether the equipment to be used is approved. The

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letters will be stamped as approved or not approved accordingly and returned to the Contractor.

3. One (1) copy of material catalog cuts.
4. The contract number, permit number or intersection location must be on each sheet of the letter and material catalog cuts as required in items 2 and 3.

Inspection of Construction.

When the road is open to traffic, except as otherwise provided in Section 801 and 850 of the Standard Specifications, the Contractor must request a turn-on and inspection of the completed detector loop installation at each separate location. This request must be made to the Traffic Signal Maintenance and Operations Engineer at (847)705-4424 a minimum of seven (7) working days prior to the time of the requested inspection.

Acceptance of the traffic signal equipment by the Department shall be based upon inspection results at the traffic signal "turn on." If approved, traffic signal acceptance shall be verbal at the "turn on" inspection followed by written correspondence from the Engineer. If this work is not completed in time, the Department reserves the right to have the work completed by others at the Contractor's expense.

All cost of work and materials required to comply with the above requirements shall be included in the pay item bid price, under which the subject materials and signal equipment are paid, and no additional compensation will be allowed. Materials and signal equipment not complying with the above requirements will be subject to removal and disposal at the Contractor's expense.

Restoration of Work Area.

Restoration of the traffic signal work area due to the detector loop installation and/or replacement shall be included in the cost of this item. All roadway surfaces such as shoulders, medians, sidewalks, and pavement shall be replaced as shown in the plans or in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded.

Removal, Disposal and Salvage of Existing Traffic Signal Equipment.

The removal, disposal, and salvage of existing traffic signal equipment shall be included in the cost of this item. All material and equipment removed shall become the property of the Contractor and disposed of by the Contractor outside the State's right-of-way. No additional compensation shall be provided to the Contractor for removal, disposal or salvage expense for the work in this contract.

DETECTOR LOOP REPLACEMENT.

This work shall consist of replacing existing detector loops which are destroyed during grinding, resurfacing, or patching operations.

If damage to the detector loop is unavoidable, replacement of the existing detection system will be necessary. This work shall be completed by an approved Electrical Contractor as directed by the Engineer.

Replacement of the loops shall be accomplished in the following manner: The Engineer shall mark the location of the replacement loops. The Traffic Signal Maintenance and Operations Engineer shall be called to approve loop locations prior to the cutting of the pavement. The Contractor may reuse the existing coilable non-metallic conduit (CNC) located between the existing handhole and the pavement if it hasn't been damaged. CNC meeting the requirements of NEC Article 353 shall be used for detector loop raceways to the handholes. All burrs shall be removed from the edges of the existing conduit which could cause damage to the new detector loop during installation. If the existing conduit is damaged beyond repair, if it cannot be located,

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or if additional conduits are required for each proposed loop; the Contractor shall be required to drill through the existing pavement into the appropriate handhole, and install 1" (25 mm) CNC. This work and the required materials shall not be paid for separately but shall be included in the pay item Detector Loop Replacement. Once suitable CNC raceways is established, the loop may be cut, installed, sealed and spliced to the twisted-shielded lead-in cable in the handhole. All loops installed in new asphalt pavement shall be installed in the binder course and not in the surface course. The edge of pavement or the curb shall be cut with a 1/4" (6.3 mm) deep x 4" (100 mm) saw-cut to mark location of each loop lead-in.

A minimum of seven (7) working days prior to the Contractor cutting loops, the Contractor shall have the proposed loop locations marked and contact the Traffic Signal Maintenance and Operations Engineer (847)705-4424 to inspect and approve the layout.

Loop detectors shall be installed according to the requirements of the "District 1 Standard Traffic Signal Design Details." Saw-cuts from the loop to the edge of pavement shall be made perpendicular to the edge of pavement when possible in order to minimize the length of the sawcut unless directed otherwise by the Engineer or as shown on the plan.

The detector loop cable insulation shall be labeled with the cable specifications.

Each loop detector lead-in wire shall be labeled in the handhole using a water proof tag, from an approved vendor, secured to each wire with nylon ties. The lead-in wire, including all necessary connections for proper operation, from the edge of pavement to the handhole, shall be included in the detector loop pay item.

Loop sealant shall be a two-component thixotropic chemically cured polyurethane. The sealant shall be installed 1/8" (3 mm) below the pavement surface. If installed above the surface the excess shall be removed immediately.

Round loop(s) 6 ft. (1.8 m) diameter may be substituted for 6 ft. (1.8 m) by 6 ft. (1.8 m) square loop(s) and shall be paid for as 24 feet (7.2 m) of detector loop.

Resistance to ground shall be a minimum of 100 mega-ohms under any conditions of weather or moisture. Inductance shall be more than 50 and less than 700 microhenries. Quality readings shall be more than 5.

Heat shrink splices shall be used according to the "District 1 Standard Traffic Signal Design Details."

Detector loop replacement shall be measured along the sawed slot in the pavement containing the loop cable up to the edge of pavement, rather than the actual length of the wire in the slot. Drilling handholes, sawing the pavement, furnishing and installing CNC to the appropriate handhole, cable splicing to provide a fully operable detector loop, testing and all trench and backfill shall be included in this item.

Basis of Payment.

Detector Loop Replacement shall be paid for at the contract unit price per foot (meter) of DETECTOR LOOP REPLACEMENT.

MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

This work shall consist of the removal of existing magnetic detectors, magnetic detector lead-in cable and magnetic detection amplifiers and related control equipment wiring, installation of detector lead-in cable, detector loops, detector amplifiers and related equipment wiring. The detector loop, cable, and amplifier shall be installed according to the applicable portions of the

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“Standard Specifications” and the applicable portions of the Special Provision for “Detector Loop Replacement.” All drilling of handholes, furnishing and installing CNC, cable splicing, trench and backfill, removal of equipment, and removing cable from conduit shall be included in this item.

Basis of Payment.

Magnetic Detector Removal and Detector Loop Installation shall be paid for at the contract unit price per foot (meter) for DETECTOR LOOP, TYPE I, per each for INDUCTIVE LOOP DETECTOR, and foot (meter) for ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR.

SPECIAL PROVISION
FOR

HOT-MIX ASPHALT - DRIVEWAY PAVEMENT, 2”

Description. This work shall consist of constructing hot-mix asphalt driveway pavement on a prepared subgrade.

Materials. Materials shall be according to the following:

| Item | Article /Section |
|--|------------------|
| (a) Hot-Mix Asphalt - Mix “D”, N50 | 1030 |
| (b) Coarse Aggregate – CA-6 | 1004.01 |

Subgrade Preparation. This work shall consist of furnishing, transporting, placing, and compacting course aggregate. The aggregate base course shall be a minimum of 8" in thickness.

General. The measurements of driveway widths, as shown on the plans, are measurements at the sidewalk or property line as the case may be. The drive approaches shall be installed with 3' or 6' flares as shown on the plans or as specified by the ENGINEER.

Method of Measurement. This work will be measured for payment in place and the area computed in square yards.

Basis of Payment. This work will be paid for at the contract unit price per square yard for **HOT-MIX ASPHALT - DRIVEWAY PAVEMENT** of the thickness specified, and shall include aggregate base course, hot-mix asphalt surface, all required machine sawing, and necessary materials as shown on the plans or in the Standard Specifications or as determined by the Engineer.

Driveway pavement removal shall be measured and paid for separately.

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SPECIAL PROVISION
FOR
WATER AND SEWER MAIN CONSTRUCTION

Effective: 1/1/10

Water and Sewer Main Construction shall conform to "*The Standard Specifications for Water and Sewer Main Construction in Illinois*", adopted July, 2014, Edition #7 or most current version (Hereinafter referred to as Standard Specification for Water and Sewer Main Construction)

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SPECIAL PROVISION
FOR
PRECONSTRUCTION MEETING

Effective: 1/1/10
Revised: 1/21/13

A preconstruction conference shall be held between the Contractor, the Engineer and various other representatives before construction starts, to discuss scheduling, contracts, handling of materials, payments, and any other information relative to the work.

The Contractor shall provide a schedule to the Engineer for review and approval at the time of the meeting.

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SPECIAL PROVISION
FOR
EXPLORATORY EXCAVATION

Effective: 1/1/10

Description. This work shall consist of the Contractor making excavations to determine the exact horizontal and vertical locations for various underground utilities as directed by the engineer. It shall include any necessary bracing and shoring as well as backfill and compaction.

Basis of Payment. This work shall be paid for at the contract unit price each for **EXPLORATORY EXCAVATION**.

Which price shall be payment in full for all machine sawing, excavation, trench backfill, materials, labor, trench shoring and any equipment necessary to perform the work.

Backfill material shall either be native materials in locations where there will be no structures built upon the fill, or aggregate trench backfill in areas upon which will be constructed pavements or concrete.

Permanent pavement patching shall be paid for separately.

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SPECIAL PROVISION
FOR
COLD PATCH

Effective: 2/7/13

Description. The contractor shall provide cold bituminous asphalt material, COLD PATCH, for the use in all water and sewer trenches or as directed by the engineer. The depth of material placed shall be a minimum of 3 inches but not to exceed 6 inches or as directed by the Engineer. The Engineer shall specify the location for placement of COLD PATCH material.

Basis of Payment. This work shall be paid for per ton as **COLD PATCH**, which price shall include all materials, labor and equipment necessary to perform this work.

This line item shall include the cost to remove and dispose of all cold patch material placed.

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SPECIAL PROVISION
FOR
PRESSURE CONNECTION

Effective: 1/1/10

Description. This work shall consist of installing pressure tap valves and tees of the sizes and dimensions specified. The installations shall be according to the applicable sections of the current version of the Standard Specifications for Water and Sewer Main Construction in Illinois and to the Plan Details. The Engineer and City of Wheaton Water Department shall inspect the pressure taps.

General. The Contractor shall supply the valves, tap machine, and pressure tap tees to complete the work as required. Each pressure tap valve shall be installed with a valve box and cover.

Materials. The pressure tap valve and tee shall conform to the following or approved equal:

Pressure Tap Valve and Tee.

- a) Mueller A2360-16 Resilient Wedge Valve
or
- b) American Flow Control Series 2500 Flanged X Mechanical Joint Resilient Wedge Valve

Tapping Sleeve.

- a) Smith Blair 665 Stainless Steel Taping Sleeve

Method of Measurement. This work will be measured for payment as each. Each installed pressure tap and valve will be considered one each.

Basis of Payment. This work will be paid for at the contract unit price per each for **PRESSURE CONNECTION**, of the specified size, and shall include all materials, labor and equipment necessary to complete the work as described.

Each pressure tap valve shall be installed with a valve box and cover which shall be considered included in the cost of each valve.

All excavation and trench backfill required for the pressure tap and valve shall be included in the price of this item.

Pavement removal and replacement shall be measured and paid for separately.

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SPECIAL PROVISION
FOR
WATER VALVES

Effective: 1/1/10

Description. This work shall consist of the installation of valves that conform to the applicable sections of the current version of the Standard Specifications for Water and Sewer Main Construction in Illinois, and to the plan details. Each valve shall be installed with a valve box cover and rubber valve setter.

General. The Contractor shall supply and install all valves as shown on the plans.

Materials. The mainline valves shall be gate valves and shall conform to the following or approved equal.

- a) Mueller A-2360-20 Resilient Wedge Valve with Mechanical Joint Ends
or
- b) American Flow Control Series 2500 Resilient Wedge Valve.

All valve boxes shall be 664-S Series Tyler Screw Type Cast Iron 2 piece valve boxes or approved equal.

Plastic valve boxes, plastic valve box extensions/risers, or slip in valve box risers are not acceptable.

Method of Measurement. This work will be measured for payment as each. Each installed valve and valve box cover and rubber valve setter will be considered one each.

Basis of Payment. This work will be paid for at the contract unit price per each for **WATER VALVES**, of the specified size, and shall include all materials, labor and equipment necessary to complete the work as described.

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SPECIAL PROVISION
FOR
WATER SERVICE COMPLETE

Effective: 1/1/10

Description. This work shall consist of the installation of a complete water service assembly from an existing or new water main to, and including the curb box.

General. This work shall include spoil removal, and all fittings necessary to perform this work. No additional compensation shall be given for varying diameter services, but instead, shall be considered included in the contract.

The water service line shall be installed according to Article 562.03 and the City of Wheaton Special Provision **WATER SERVICE LINE**.

Materials. The water service complete assembly shall conform to the following or approved equals.

Corporation Cock

- a) Mueller 300 Ball Corporation Valve B-25000N
- Or
- b) Ford Corporation Stops FB600-Size-NL

Corporation Cock Quarter and Eighth Bends – ¾", 1", 1 ¼", 1 ½" and 2"

- a) Mueller brass with compression ends and swivel nut, flare nut. Non-swivel accepted on sizes where others aren't made. Mueller H-15075N, H-15076N
- Or
- b) Ford brass with compression ends with swivel nut, flare nut. Non-swivel accepted on sizes where others aren't made. Ford LA04-Size-NL, L04-Size-NL.

Curb Stop

- a) Mueller 300 Ball Curb Valve B-25155N
- Or
- b) Ford Ball Valve Curb Stop B44-size M-NL

Curb Box

- a) Mueller H-10300 Curb Box with Minneapolis Pattern Base

Service Saddles (for diameter sizes over 1")

- a) Smith-Blair Model 317 Epoxy Coated Ductile Iron with Double Stainless Steel Strap

The water service line shall be installed according to Article 562.02 and the City of Wheaton Special Provision for **WATER SERVICE LINE**.

Method of Measurement. This work will be measured for payment as each. Each installed corporation cock, corporation cock quarter and eighth bends, curb stop, curb box and service saddles, will be considered one each.

The water service line will be measured for payment according to Article 562.04.

Basis of Payment. This work will be paid for at the contract unit price per each for **WATER SERVICE COMPLETE** which shall include all labor, equipment, and materials necessary to install the service as specified.

Excavation and spoil removal shall not be paid for separately but shall be considered included in the cost of this item. No additional compensation shall be given for varying diameter services, but instead, shall be considered included in the contract.

Copper water service line will be paid for according to Article 562.05.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR
FIRE HYDRANTS

Effective: 2/22/11

Description. This work shall consist of the installation of new fire hydrants and auxiliary valves to be connected to the existing water main or to a new water main.

General. Work shall be performed according to applicable sections of the current version of the Standard Specifications for Sewer & Water Main Construction in Illinois and the City of Wheaton Detail as shown on the plans.

Materials. The hydrant shall be a Mueller Centurion A-421 or approved equal, 4 ½" valve opening with 6" flange by mechanical joint resilient wedge gate type auxiliary valve. The hydrant shall be of a break flange construction and placed in the locations as shown on the plans. The Fire Hydrant shall be factory painted safety yellow.

The auxiliary valve shall be a Mueller #A-2360-19 resilient wedge series or approved equal. The valve box shall be a Tyler 664-S or approved equal.

Construction Requirements. Hydrants shall not be closer than 3' to the back of curb, no closer than 5' to the nearest edge of a drive approach, no closer than 18" to any sidewalk. Fire hydrants shall be plumb and set so that the lowest hose connection is a minimum of 18" and maximum 24" above the surrounding finished grade. A minimum of 1/4 cubic yard of coarse washed stone shall be placed at and around the base to a level 6" above the drain outlets to permit the draining of the hydrant barrel. Final adjustment of the Fire Hydrant shall be considered included in the cost of this item. No additional compensation shall be given for fittings or extensions that are necessary to avoid utility conflicts or connect to the existing or new water main.

Method of Measurement. This work will be measured for payment as each. Each installed fire hydrant and auxiliary valve will be considered one each.

Basis of Payment. This work shall be paid for at the contact unit price per each for **FIRE HYDRANTS** which shall include all labor, equipment, and materials necessary to install the hydrant as specified.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR
FIRE HYDRANTS TO BE REMOVED

Effective: 1/1/10

Description. This work shall consist of the removal of fire hydrants and auxiliary valves on abandoned water main.

Construction Requirements. After installation and testing of the proposed water main, hydrants on the existing water main to be abandoned shall be removed. The existing hydrant and auxiliary valve shall be removed as a one-piece unit and set aside for pick up by City crews. All excavation necessary shall only be sufficient to remove the existing hydrant.

Method of Measurement. This work will be measured for payment as each. Each removed fire hydrant and auxiliary valve will be considered one each.

Basis of Payment. This work will be paid for at the contract unit price per each for **FIRE HYDRANTS TO BE REMOVED**, which shall include all labor, materials, and equipment necessary to affect each hydrant removal.

Trench backfill necessary to fill the resulting excavation shall not be paid for separately but shall be considered included in the cost of this item.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR
CUT AND INSTALL END CAPS

Effective: 3/2/12

Description. This work shall consist of the removal of existing valves and/or pipe on water main and the installation of an end cap.

Materials. Material shall be according to the following or approved equal.

End Caps for Class "A" pipe shall be Tyler Union Mechanical Joint Cap, with EBAA Iron Megalug mechanical joint restraint gland. End Caps for Class "B-C-D" pipe shall be Tyler Union MJ x PE Dual-Purpose Cutting-in Sleeve with Tyler Union Mechanical Joint Cap, with EBAA Iron Megalug mechanical joint restraint glands.

When the elimination of an existing tee or cross is shown on the plans, a length of pipe matching the diameter of the existing main shall be installed with two (2) long body Omni sleeves, Smith Blair #441 with stainless steel hardware or approved equals at the discretion of the Engineer. This work shall be performed in lieu of installing the number of end caps normally required.

Construction. The existing water main and appurtenances shall be removed as shown on the plans to accommodate the installation of an end cap. The end cap shall be blocked with concrete blocks against undisturbed earth. In addition, each cap shall be tied back to the water main with a stainless steel threaded rod to either a mechanical joint or a retaining gland and be encased in polyethylene wrap.

The Engineer shall determine the method to be used on the basis of existing conditions. Wood shims shall only be permitted when encased in Class SI Concrete. A brass plug shall be installed on the end cap.

All excavation shall be minimized to an extent sufficient to install the end cap.

Method of Measurement. Cut and install end cap will be measure for payment as each. Each installed end cap, concrete blocks, concrete, and retaining gland, or Omni sleeves and pipe section will be considered each.

Basis of Payment. This work will be paid for at the contract unit price per each for **CUT AND INSTALL END CAPS**, which shall include all materials, labor, and equipment as required. No allowance will be made for varying diameters of end caps.

Trench backfill and pavement removal and replacement will be measured and paid for separately.

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR
VALVE BOXES TO BE ADJUSTED

Effective: 1/1/10

Description. This item shall consist of the adjustment of existing valve boxes to the proposed surface grade as shown on the plans or as directed by the Engineer.

General. This work shall be performed in accordance with Article 603 of the Standard Specifications. In order to make the necessary adjustments, the Contractor may have to provide a screw type extension or riser section for the existing facility. It shall be the responsibility of the Contractor to ascertain the type of existing facility and the necessary extension piece required to perform the adjustment. The installation of the extension pieces or the proper manipulation of the existing screw-type devices shall be the only adjustment allowed, and the use of physical force to raise or lower the valve boxes shall not be permitted.

Materials. The following materials shall be used or approved equals:

Valve Box Extensions

- a) Tyler #58 or #60 Screw-Type Extension

Adjustable Riser

- a) Tyler #69 Screw-Type Adjustable Riser

Plastic valve boxes or plastic valve box extensions/risers are not permitted.

Method of Measurement. This work will be measured for payment as each. Each valve box adjusted including any extensions/riser sections needed, will be considered one each.

Basis of Payment. This item will be paid for at the contract unit price per each for **VALVE BOX TO BE ADJUSTED**, which price shall be considered full compensation for all labor, equipment, and materials necessary to perform the work to the satisfaction of the Engineer.

Pavement removal and Class SI concrete replacement required for this item shall not be paid for separately but shall be considered included in the cost of this item.

SUBCONTRACTOR LIST

1. In accordance with the bidding requirements for the work entitled:

CITY OF WHEATON 2017 West Street Water Main Replacement Project

for portions of the work the bidder proposes to use the following subcontractors. Except as otherwise approved by owner, bidder proposes to perform all other portions of the work with his own forces;

2. Portion of the work

Subcontractor name and address

City of Wheaton Distribution Specifications – As of April 5, 2017

All Materials shall be as specified below or approved equal, be produced in North America and be the current year model. All brass shall be “No-lead”, meeting the requirements of the Reduction of Lead in Drinking Water Act.

Water main

Unless approved in writing all water main shall be 8” minimum size Class 52 Zinc-coated Ductile Iron pipe.

If PVC water main is allowed, it must be approved in writing and shall be Certa-Lok PVC or equal. The design shall include two #10 Solid Insulated Copper tracer wires that terminate in a Valvco Inc. Tracer Wire Access Box at each end. Shop drawings of the tracer wires must be submitted and approved for all PVC water main.

Polyethylene Wrap – Required on all Water Main Installations

1. All ductile iron water main and fittings shall be encased with linear low density V-Bio Enhanced polyethylene wrap, 8 mils thick. Polyethylene wrap shall be secured with polyethylene tape at overlaps, ends, and every four feet along the pipe barrel.

Fire Hydrants

1. Mueller Centurian A-421, 4½ inch valve opening with 6-inch flange x mechanical A2360 resilient wedge valve attached. All bolts shall be stainless steel on all valves and hydrants.

Gate Valves

1. Mueller A2360-23 (4-inch through 12-inch) or A2361-23 (16-inch) resilient wedge gate valve
OR
2. American Flow Control Series 2500 resilient wedge valve

Mechanical Joints

1. EBAA Iron Megalug mechanical joint restraint gland

Tapping Valves

1. Mueller A2360-19 flange x mechanical joint resilient wedge valve
OR
2. American Flow Control Series 2500 flange x mechanical joint resilient wedge valve

Tapping Sleeves – All Pressure Connections 4” to 8” Shall Be Done By The City Of Wheaton

1. Smith-Blair 665 stainless steel tapping sleeve with stainless steel flange
OR
2. Ford FTSS stainless tapping sleeve with stainless steel flange

Valve Boxes

1. Tyler Union 664S screw type cast iron two-piece valve box
Note: Plastic valve boxes or plastic extensions **are not** allowed
2. Valve Box Adaptor II
 - a. Type A Gate Valves – 4”-6” Mueller, 4”-6”-8” AFC
 - b. Type B Gate Valves – 8” Mueller, 10”-12” AFC
 - c. Type D Gate Valves – 10” Mueller
 - d. Type E Gate Valves – 12” Mueller, 16” AFC
3. Valve box extensions shall be Tyler Union #58, #60 or Tyler Union #69 riser.

End Caps

1. Class "A" pipe: Tyler Union Mechanical Joint Cap.
Class "B-C-D" pipe: Tyler Union MJ x PE Dual-Purpose Cutting-in Sleeve with Tyler Union Mechanical Joint Cap.

Service Fittings

1. **Corporation Cock**
 - a. Mueller 300 Ball Corporation Valve B-25000N**OR**
 - b. Ford Corporation Stops FB600-*size-NL*
2. **Corporation Cock Quarter and Eighth Bends – ¾", 1", 1 ¼", 1 ½" and 2"**
 - a. Mueller brass with compression ends and swivel nut. Flare nut, non-swivel accepted on sizes where others aren't made. Mueller P-15075N, P-15076N**OR**
 - b. Ford brass with compression ends and swivel nut. Flare nut, non-swivel accepted on sizes where others aren't made. Ford LA04-*size-NL*, L04-*size-NL*.
3. **Curb Stop**
 - a. Mueller 300 Ball Curb Valve P-25155N**OR**
 - b. Ford Ball Valve Curb Stop B44-*sizeM-NL*
4. **Curb Box**
 - a. Mueller H-10300 curb box with Minneapolis Pattern Base.
5. **Service Saddles**
 - a. Smith-Blair Model 317 Epoxy Coated Ductile Iron with double stainless steel strap.

City of Wheaton - 2017 West Street Water Main Replacement Project

PRODUCT INFORMATION AND SPECIFICATIONS

The Contractor shall use the following specified products as enclosed herein or approved equal.

1. Valve Box Adaptor II
2. Infi-Shield Uni-Band
3. Canusa Wrap – Pipe Wrap
4. Infra-RISER Rubber Adjustment Riser
5. Catch-All Inlet Protector
6. Detectable Warning Systems
 - a. E-Z Set Warning Panels
 - b. TufTile ADA Tactile Products

Valve Box Adaptor II



Municipal water utilities and contractors have benefited over the years from the use of the Valve Box Adaptor II.

The Valve Box Adaptor II has eliminated improper keying of the valves due to settling and shifting of the valve box.

Using the Valve Box Adaptor II has proven to be a cost effective product for water utilities. It has reduced future budget costs by eliminating the excavation and resetting of the valve box.



[Products](#)

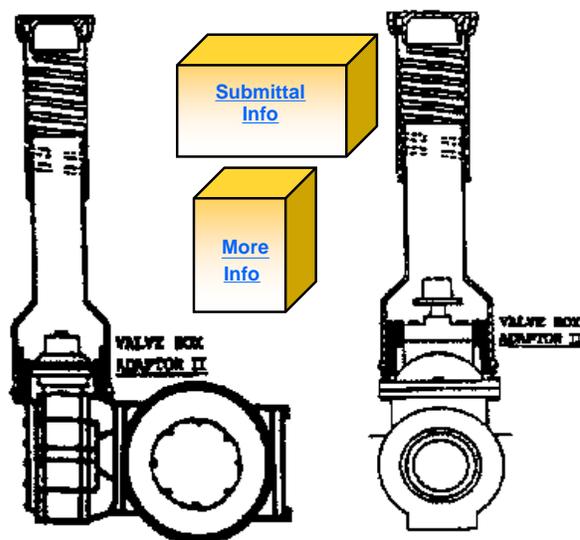


[Home](#)

[More Products](#)

Advantages

-  Eliminates settling and shifting of the gate and butterfly valve boxes.
-  Protects epoxy coating on valves.
-  Centers valve box over operating nut.
-  Seals valve box with a resilient material.
-  Cost effective





Valve Box Adaptor II Specs

All valve boxes shall be installed upon the valve with the use of a Valve Box Adaptor II as manufactured by Adaptor Inc. or an approved equal. The adaptor shall be installed in lieu of hardwood blocking and shall be incidental to the valve and box installations.

Manufactured from a rubber compound.

The Valve Box Adaptor II are made for a Tyler box or equal.

Manufactured for all types and sizes of Gate Valve, Butterfly Valves and valve boxes for water, gas and wastewater valves.

***If using a Bibby box call for sizing and prices.

| Type | Valve & Size |
|----------------|---|
| A | AFC 3" - 8" Mueller 4", 6" Matco 12" |
| B | AFC 10", 12" Mueller 8" |
| C | Kennedy/Clow/M&H 4" - 8" East Jordan 6" |
| D | Mueller 10" |
| E | Kennedy/Clow/M&H 10" - 16" Mueller 12" AFC 16" East Jordan 8" |
| F | East Jordan 10", 12" Mueller 2", 2 1/2" |
| G | Mueller 3" Matco 8" |
| A-EJ | East Jordan 4" AVK 6" |
| A-Matco | Matco 6" |
| B-Matco | Matco 4" |
| D-Matco | Matco 10" |
| H-Matco | Matco 3" |
| I-Matco | Matco 2" |
| H-AVK | AVK 2 1/2" - 4" |
| C-AVK | AVK 8" - 16" |
| I-AVK | AVK 2" |



For more info on pricing or your local distributor contact Adaptor Inc.

INFI-SHIELD®

UNI-BAND

SPECIFICATION FOR MANHOLE ADJUSTMENT RINGS

Patent Pending

PART I - GENERAL

1.01 SCOPE

This section shall include the complete Uni-Band seal manhole sealing system. The sealing system shall prevent leakage of water into the manhole through the frame joint area and through the adjustment ring area.

1.02 MATERIALS TO BE FURNISHED

All materials required for the installation of the Uni-Band manhole sealing system shall be furnished by the contractor and shall be new, of first grade, and shall be of reputable manufacturers known to the trade.

PART II - PRODUCTS

2.01 GENERAL

The casting shall be sealed to the structure with a Uni-Band sealing system as manufactured by Sealing Systems, Inc. (800-478-2054) or approved equal. The seal shall be a continuous seamless band made of high quality EPDM (Ethylene Propylene Diene Monomer) rubber with a minimum thickness of 65 mils. There shall be a preformed L shaped corner molded into the top of the seal. The top section and the side section will extend from the L shaped corner at a generally 90-degree angle to each other. Wherein the seal is preformed in substantially the same shape as when attached to the manhole structure. The thickness of the L shaped corner extending 1" into the top section and 1" down the side section is increased and may be at least twice the thickness of the top section reinforcing the seal at this particular area. There shall be a 2" to 3" wide strip of butyl mastic attached to the underside of top section of the seal. There shall be a 2" wide strip of butyl mastic attached to the inside of the side section at the bottom of the seal. The mastic shall be non-hardening butyl rubber sealant, with a minimum thickness of 1/8", and shall seal to the cone/top of the manhole section and over the flange of the casting frame. An aerosol primer shall be used to enhance the bond strength of the seal to the structure.

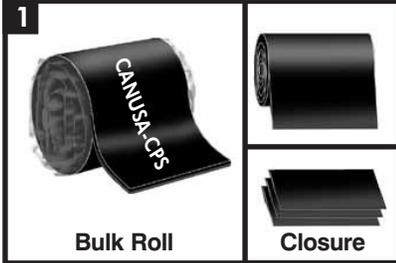
PART III - EXECUTION

3.01 INSTALLATION

The Uni-Band seal sealing system shall be installed according to the manufacturers recommendations. The top section of the seal shall extend 3" attaching to the casting base/flange with the side section covering over the entire grade adjustment ring area and onto the cone section a minimum of 2".

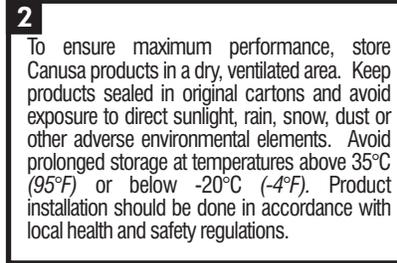
CanusaWrap™ Two-piece protective bulk roll with separate closure

Product Description



CanusaWrap™ is typically shipped in bulk rolls. The adhesive is protected from contamination by an inner liner. Closures are shipped either in bulk rolls or pre-cut.

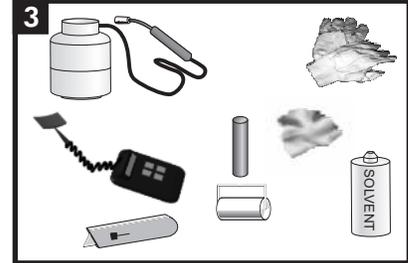
Storage & Safety Guidelines



To ensure maximum performance, store Canusa products in a dry, ventilated area. Keep products sealed in original cartons and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements. Avoid prolonged storage at temperatures above 35°C (95°F) or below -20°C (-4°F). Product installation should be done in accordance with local health and safety regulations.

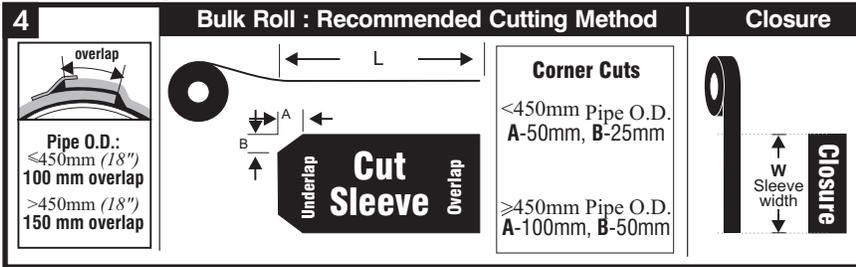
These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

Equipment List



Propane tank, hose, torch & regulator
Appropriate tools for surface abrasion
Knife, roller, rags & approved solvent cleanser
Digital thermometer with suitable probe
Standard safety equipment; gloves, goggles, hard hat, etc.

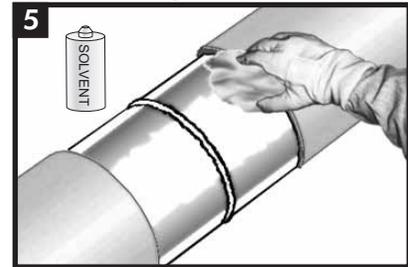
Product Preparation Guidelines



As a guideline, cut the required lengths of Sleeve material (L) and Closure material (W) from the bulk roll as follows
 $L = \text{Coated Pipe circumference} + \text{overlap dimension}$
 $W = \text{Sleeve Width}$

Ensure that the sleeve and closure are not damaged or contaminated. Trim corners as shown.
Please see "CanusaWrap™ Sleeve Cutting Guideline" for more information on alternative cutting methods.

Surface Preparation

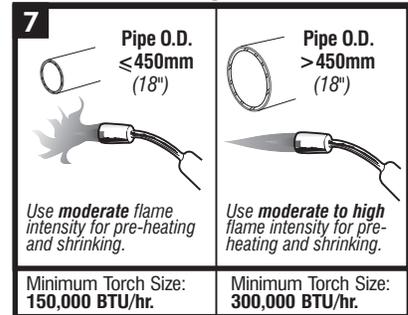


Ensure that the PE coating edges are beveled to 30°. Clean exposed steel and adjacent pipe coating with a solvent cleanser to remove the presence of oil, grease, and other contaminants.

Surface Preparation and Pre-Heat Chart

| 6 | Standard Sleeves | | Surface Preparation | | | | Min. Pre-Heat Temp. | |
|----------|------------------|---------|---------------------|---------|---------------|------|---------------------|-------|
| | | | SIS Standard | | SSPC Standard | | °C | (°F) |
| | | Minimum | Preferred | Minimum | Preferred | | | |
| Mastic | WLG | WTG | St2 | Sa2 | SP2 | SP6 | 50 | (122) |
| | WLC | WTC | St2 | Sa2 | SP2 | SP6 | 60 | (140) |
| | WLS | WTS | St2 | Sa2 | SP2 | SP6 | 65 | (150) |
| | WLO | WTO | St2 | Sa2 | SP2 | SP6 | 75 | (167) |
| | WLON | WTON | St2 | Sa2 | SP2 | SP6 | 75 | (167) |
| | WLNN | WTNN | St3 | Sa2½ | SP3 | SP10 | 90 | (195) |
| Hot Melt | WLA | | St3 | Sa2½ | SP3 | SP10 | 60 | (140) |
| | WLAS | | St3 | Sa2½ | SP3 | SP10 | 90 | (195) |

Flame Intensity & Torch Size



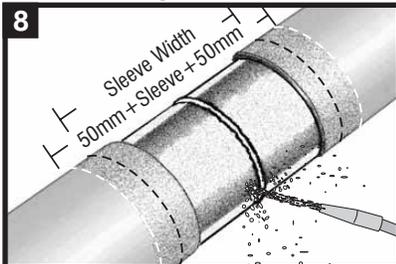
Use moderate flame intensity for pre-heating and shrinking.

Use moderate to high flame intensity for pre-heating and shrinking.

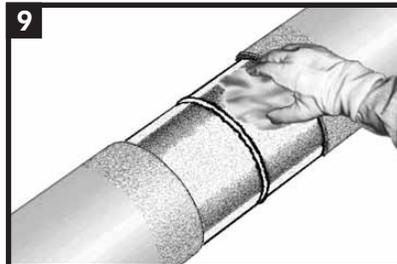
Minimum Torch Size: 150,000 BTU/hr.

Minimum Torch Size: 300,000 BTU/hr.

Surface Preparation

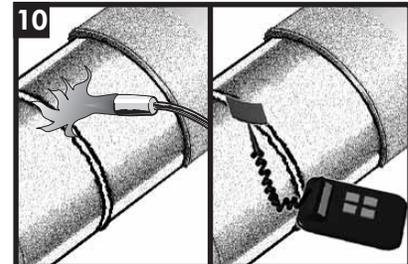


Ensure that the pipe is dry before cleaning. Prepare the steel joint area using the Surface Preparation and Pre-Heat Chart as a guideline. Lightly abrade the pipe coating adjacent to the cutback area to a distance of 50mm (2") beyond each end of the sleeve width.



Wipe clean or air blast the steel and pipe coating to remove foreign contaminants.

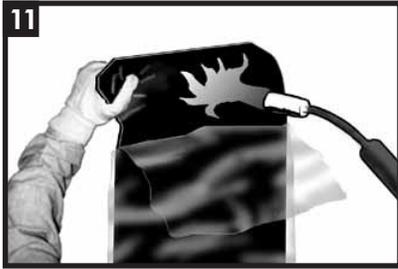
Pre-Heat



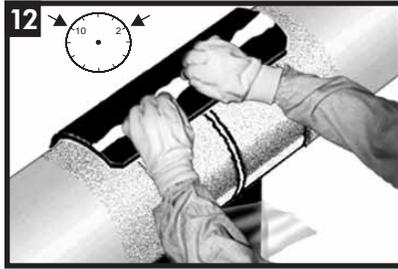
Pre-heat the joint area to the minimum required temperature (see Surface Preparation & Pre-Heat Chart). Using a temperature measuring device, ensure that the correct temperature is reached on the steel and at least 50mm (2") on each side of the sleeve.

CanusaWrap™

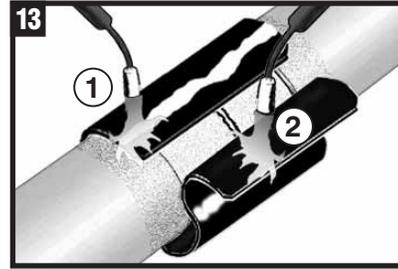
Sleeve Installation



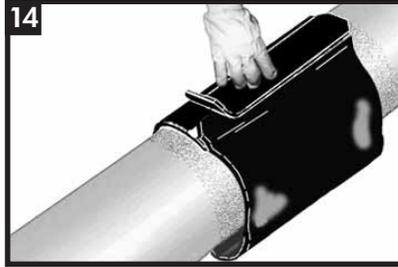
Partially remove the release liner and gently heat the underlap approximately 150 mm (6") from the edge.



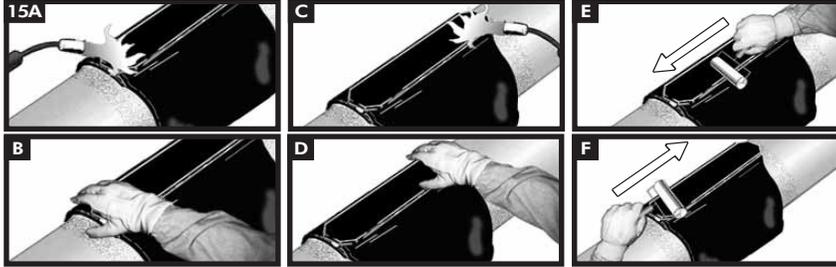
Centre the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the underlap firmly into place and remove the remaining release liner.



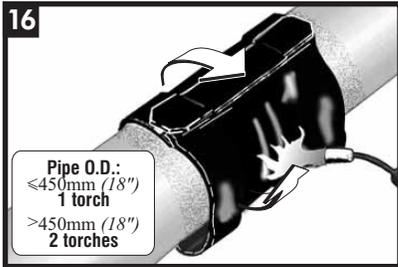
Wrap the sleeve loosely around the pipe, ensuring the appropriate overlap. Gently heat the backing of the underlap and the adhesive side of the overlap. Press the overlap into place.



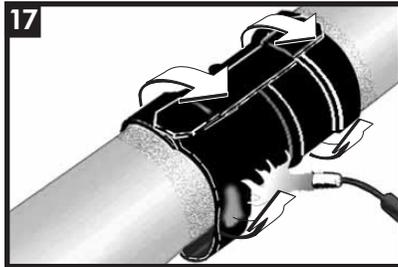
Remove any release liners from the Closure Strip. Centre the closure on the overlapping sleeve. Press down firmly.



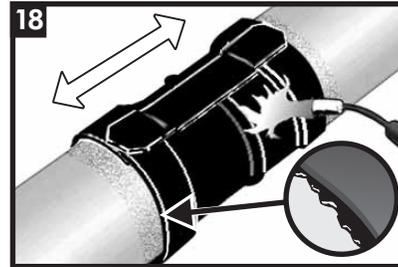
Gently heat the closure and pat it down with a gloved hand. Repeating this procedure, move from one side to the other. Smooth any wrinkles by gently working them outward from the centre of the closure with a roller.



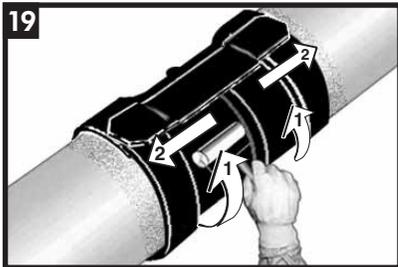
Using the appropriate sized torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.



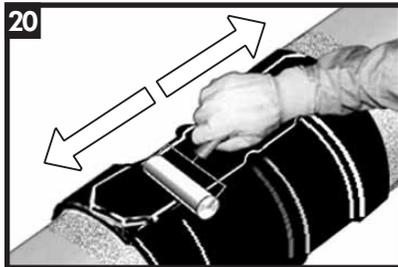
Continue heating from the centre toward one end of the sleeve until recovery is complete. In a similar manner, heat and shrink the remaining side.



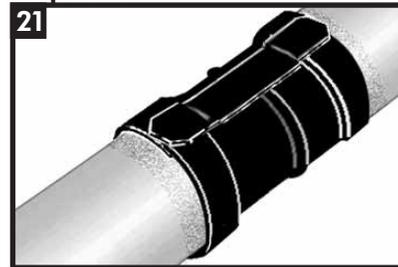
Shrinking has been completed when the adhesive begins to ooze at the sleeve edges all around the circumference. Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.



While the sleeve is still hot and soft, use a hand roller to gently roll the sleeve surface and push any trapped air up and out of the sleeve, as shown above. If necessary, reheat to roll out air.



Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.



Visually inspect the installed sleeve for the following:

- Sleeve is in full contact with the steel joint.
- Adhesive flows beyond both sleeve edges.
- No cracks or holes in sleeve backing.

Inspection

Backfilling Guidelines

After shrinking is complete, allow the sleeve to cool for 2 hours prior to lowering and backfilling. To prevent damage to the sleeve, use selected backfill material, (no sharp stones or large particles) otherwise an extruded polyethylene mesh or other suitable shield should be used.



A SHAWCOR COMPANY

Canada

CANUSA-CPS
a division of SHAWCOR LTD.
25 Bethridge Road
Rexdale, Ontario
M9W 1M7,
Canada
Tel: +1 (416) 743-7111
Fax: +1 (416) 743-5927

U.S.A./Latin America

CANUSA-CPS
a division of SHAWCOR INC.
2408 Timberloch Place
Building C-8
The Woodlands, Texas
77380, U.S.A.
Tel: +1 (281) 367-8866
Fax: +1 (281) 367-4304

Europe/Middle East

CANUSA-CPS
a division of Canusa Systems Ltd.
Unit 3, Sterling Park
Gatwick Road
Crawley, West Sussex
England RH10 9QT
Tel: +44 (1293) 541254
Fax: +44 (1293) 541777

www.canusacps.com

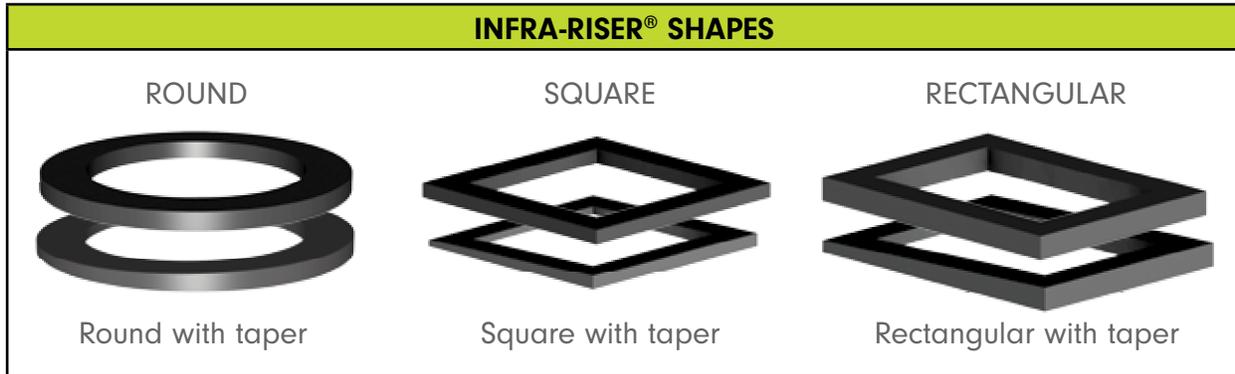
Asia/Pacific

CANUSA-CPS
BrederoShaw (S) Pte Ltd
101 Thomson Road
#17-01/02, United Square
Singapore
307591
Tel +65-6732-2355
Fax +65-6732-9073

Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the installation guide when used in compliance with Canusa's written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith. Canusa's liability is stated in the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this installation guide is to be used as a guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product. E&OE



AN INFRA-RISER® SOLUTION FOR EVERY APPLICATION



| THICKNESS | OPTION |
|-----------|-----------------|
| .5" | Flat Tapered |
| 1" | |
| 1.5" | |
| 2" | |
| 2.5" | |
| 3"* | |

* Maximum height of stacked INFRA-RISER® composite rubber adjustment riser should not exceed 3" on any installation.



CONTACT US FOR MORE INFORMATION

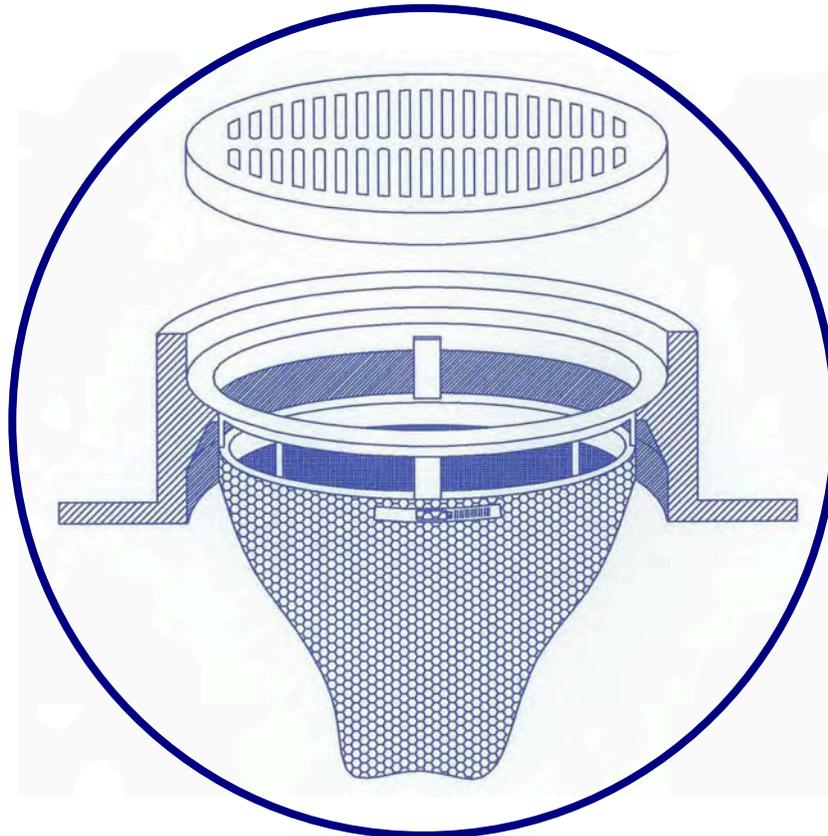
Your local East Jordan Iron Works Representative will provide you with more information on the INFRA-RISER® composite adjustment riser product line, including:

- Technical specifications and drawings for round, square, rectangular or tapered INFRA-RISER® adjustment risers
- Complete listing of available sizes
- Installation procedure for vacuum test

Catch-All

Inlet Protector

Custom fitted to virtually any inlet casting



INSTALLED COMPLETELY BELOW THE GRATE



Marathon Materials, Inc.

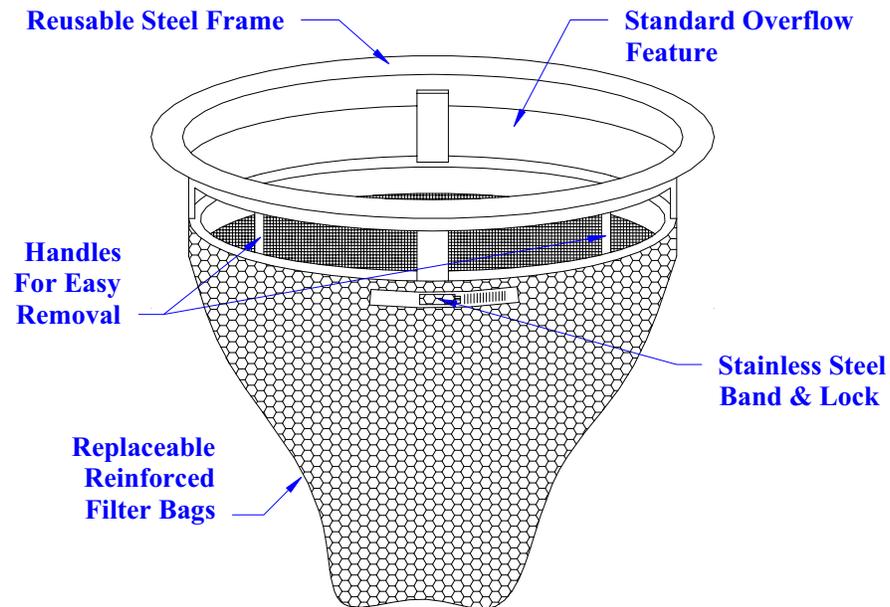
25523 W. Schultz Street

Plainfield, IL 60544

(800) 983-9493

Distributed by...

Catch-All - is a manufactured inlet filtration device designed to significantly reduce the ingress of pollutants into stormwater systems, and therefore, improve water quality. Designs are available for a custom fit in virtually any drainage structure casting.



Catch-All HR is available to provide the added benefit of hydrocarbon removal.

Design Benefits

1. Pollution Prevention
 - Sediment Control
 2. Pollution Removal
 - Hydrocarbons (Catch-All HR)
 - Total Suspended Sediment
 - Phosphorus*
 - Nitrogen*
 - Heavy Metals*
- * *By virtue of sediment control*



Applications

1. Site Development & Highway Construction
 - Inlet Protection / Sediment Control
2. Permanent BMP
 - Maintenance Yards
 - Wash Bays
 - Parking Lots & Garages
 - Airports – Tarmac, Cab/Limo Stands, Rental Returns
 - Bank/Fast Food Drive-Ups
 - Reduce Maintenance of Underground Detention Systems
 - Reduce Maintenance of Underground Oil/Water Separators

SEDIMENT CONTROL, INLET FILTERS

Description: This work shall consist of the furnishing, installation, and removal of a drainage structure inlet filter assembly, consisting of a frame and filter bag, to collect sediment in surface stormwater runoff at locations shown on the plans or as directed by the Engineer.

The Contractor shall inspect the work site and review the plans to determine the number and dimensions of the various types of drainage structure frames (circular and rectangular) into which the inlet filters will be installed prior to ordering materials.

The drainage structure inlet filter assembly shall be installed under the grate on the lip of the drainage structure frame with the fabric bag hanging down into the drainage structure.

The drainage structure inlet filter assembly shall remain in place until final removal of the assembly is directed by the Engineer. The drainage structure inlet filter assembly shall remain the property of the Contractor.

Final removal of the assembly shall include the disposal of debris or silt that has accumulated in the filter bag at the time of final removal. Periodic cleaning of the filter is paid for separately.

Materials: The drainage structure inlet filter shall be the “Catch-All Inlet Protector”, as furnished by Marathon Materials, Inc., 25523 W. Schultz St., Plainfield, IL 60544, (800) 983-9493, or approved equal. A detail drawing in the plans depicts the drainage structure inlet filter assembly.

The drainage structure inlet filter assembly consists of a steel frame with a replaceable geotextile fabric bag attached with a steel band with locking cap that is suspended from the frame. A clean used bag and a used steel frame in good condition, meeting the approval of the Engineer, may be substituted for new materials.

The drainage structure inlet filter assembly frame shall be rigid steel meeting the requirements of ASTM-A36. The frame shall include an overflow feature that is welded to the frame’s ring. The overflow feature shall be designed to allow full flow of water into the structure if the filter bag is filled with sediment. The dimensions of the assembly frame shall allow the drainage structure grate to fit into the inlet filter assembly frame opening. The assembly frame shall rest on the inside lip of the drainage structure frame for the full variety of existing and proposed drainage structure frames that are present on this contract.

The drainage structure inlet filter assembly bag shall be constructed of a polypropylene geotextile fabric with a minimum weight of 4 ounces per square yard, a minimum flow rate of 145 gallons per minute per square foot, and designed for a minimum silt and debris capacity of 2 cubic feet. The filter bag shall be reinforced with an outer layer of polyester mesh fabric with a minimum weight of 4 ounces per square yard. The filter bag shall be suspended from the steel frame with a stainless steel band and locking cap. The inlet filter assembly frame shall not cause the drainage structure grate to extend higher than 1/8 inch above the drainage structure frame.

Basis of Payment: The work will be paid for at the contract unit price per each for SEDIMENT CONTROL, INLET FILTERS, which price shall include all costs for labor, materials, equipment, and incidentals necessary to perform the work.

SEDIMENT CONTROL, INLET FILTERS CLEANING

Description: This work shall consist of cleaning sediment out of a drainage structure inlet filter when directed by the Engineer. This cleaning work is to be periodically performed as directed by the Engineer, for the duration of the use of each drainage structure inlet filter assembly. The Engineer will be the sole judge of the need for cleaning, based on the rate that debris and silt is collected at each inlet filter location.

Cleaning of the inlet filter shall consist of inspecting, cleaning (includes removal and proper disposal of debris and silt that has accumulated in the filter fabric bag), by vactoring, removing and dumping or any other method approved by the Engineer.

Method of Measurement: Cleaning of the drainage structure inlet filter shall be measured for payment each time that the cleaning work is performed at each of the drainage structure inlet filter locations.

Basis of Payment: The work will be paid for at the contract unit price per each for SEDIMENT CONTROL, INLET FILTERS CLEANING, which price shall include all costs for labor, materials, equipment, and incidentals necessary to perform the work.



Catch-All Inlet Protector

INLET FILTER SYSTEM MATERIALS

I. Non-Woven Polypropylene Filter Geotextile

| Property | Test Method | Units | Minimum Average Roll Value (English) |
|-------------------------|-------------|-------------------------|--------------------------------------|
| Grab Tensile Strength | ASTM-D-4632 | lbs | 100 |
| Grab Tensile Elongation | ASTM-D-4632 | % | 50 |
| Mullen Burst | ASTM-D-3786 | psi | 225 |
| Puncture | ASTM-D-4833 | lbs | 65 |
| Trapezoidal Tear | ASTM-D-4533 | lbs | 45 |
| UV Resistance | ASTM-D-4355 | % @ hrs | 70 @ 500 |
| Hydraulic | | | |
| Apparent Opening Size | ASTM-D-1420 | US Sieve | 70 |
| Permittivity | ASTM-D-4491 | Sec. – 1 | 2.0 |
| Flow Rate | ASTM-D-4491 | Gal/min/ft ² | 145 |

II. Reinforcing Polyester Outer Mesh Fabric

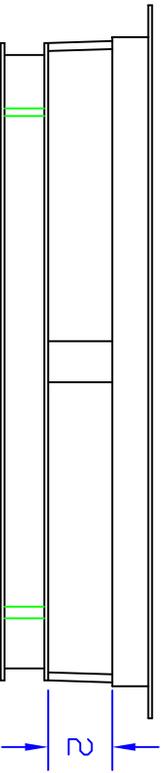
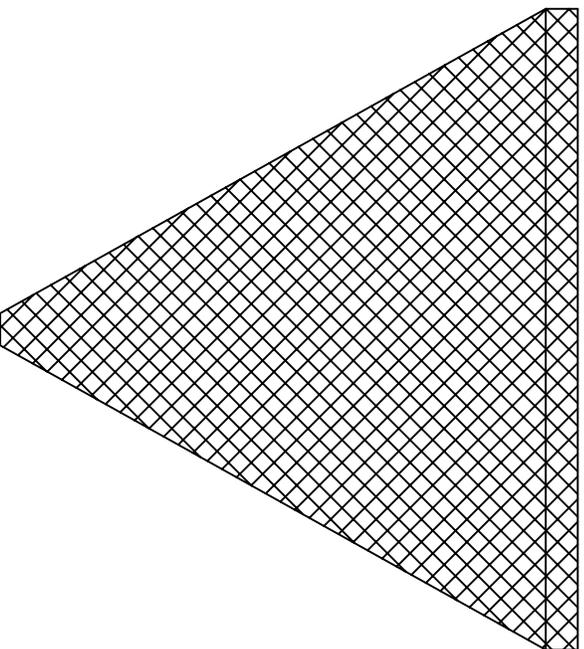
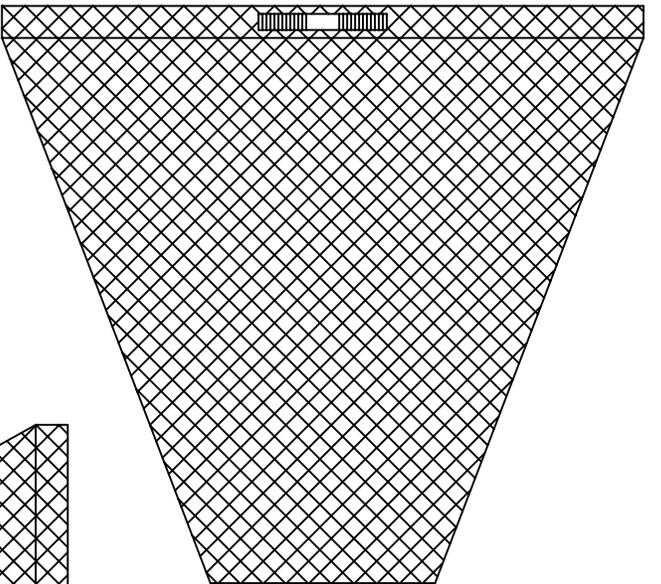
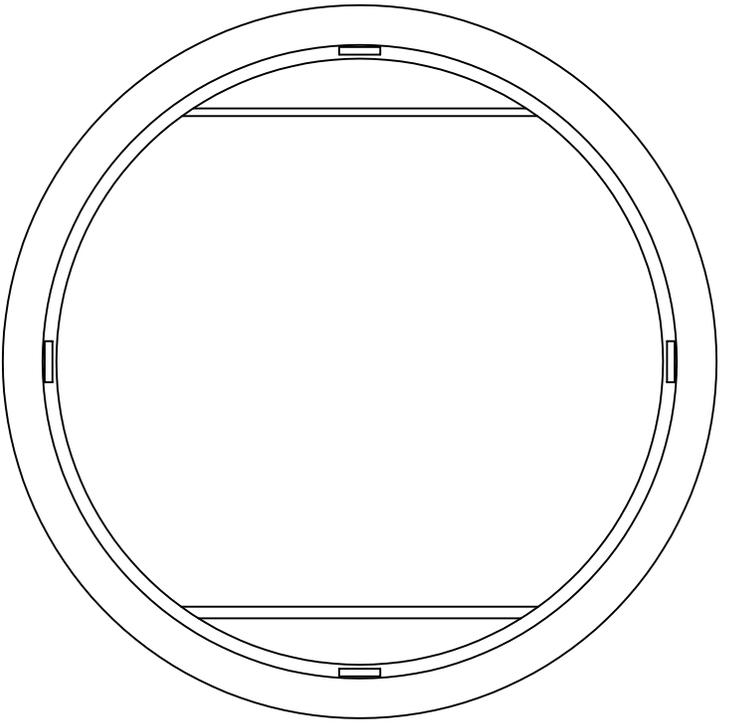
| Property | Test Method | Value |
|------------------------------|-------------|-------------|
| Content | ASTM-D-629 | Polyester |
| Weight (oz/yd ²) | ASTM-D-3776 | 4.55 ± 15% |
| Whales (holes) inch | ASTM-D-3887 | 7.5 ± 2 |
| Chorses (holes) inch | ASTM-D-3887 | 15.5 ± 2 |
| Instronball Burst (psi) | ASTM-D-3887 | 120 min |
| Thickness | ASTM-D-1777 | .040 ± .005 |

III. HR (*Hydrocarbon Removal*) Pillow Capacities

HR Pillow - 2.6 oz. Adsorbent/lf.

| Type of Oil | Capacity by Weight – Oil / Adsorbent |
|---------------|--------------------------------------|
| Diesel | 10:1 |
| Fuel Oil | 9:1 |
| Machine Oil | 8:1 |
| 30W Motor Oil | 7:1 |

All capacities are rounded down

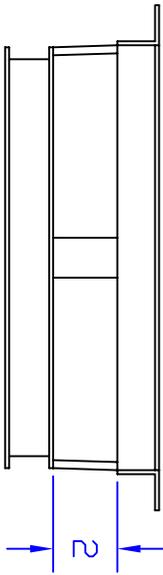
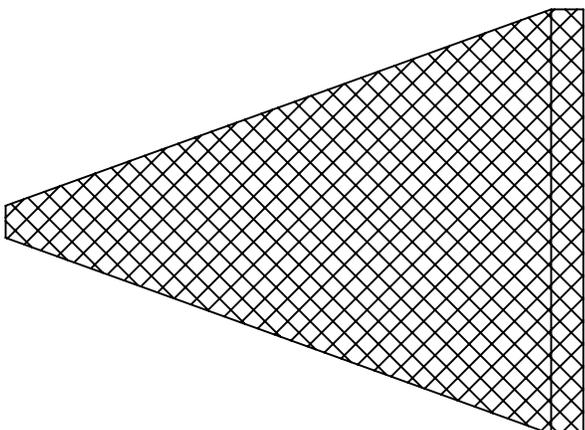
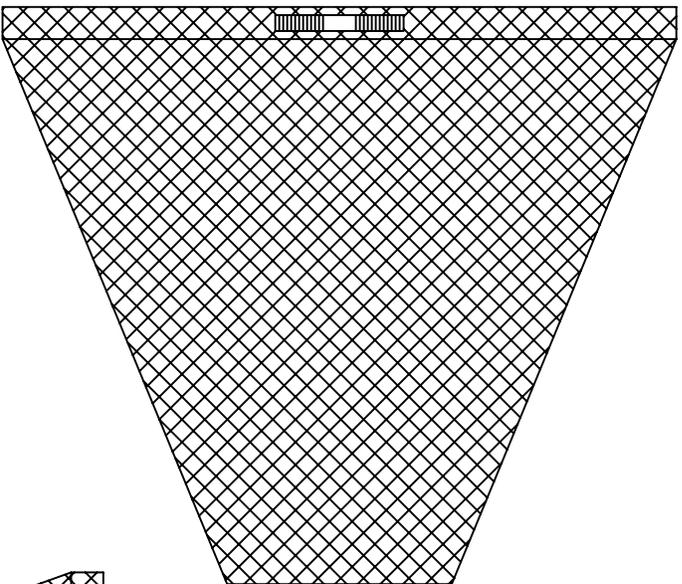
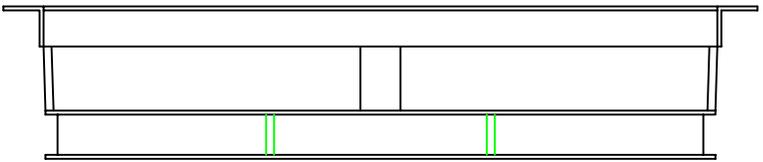
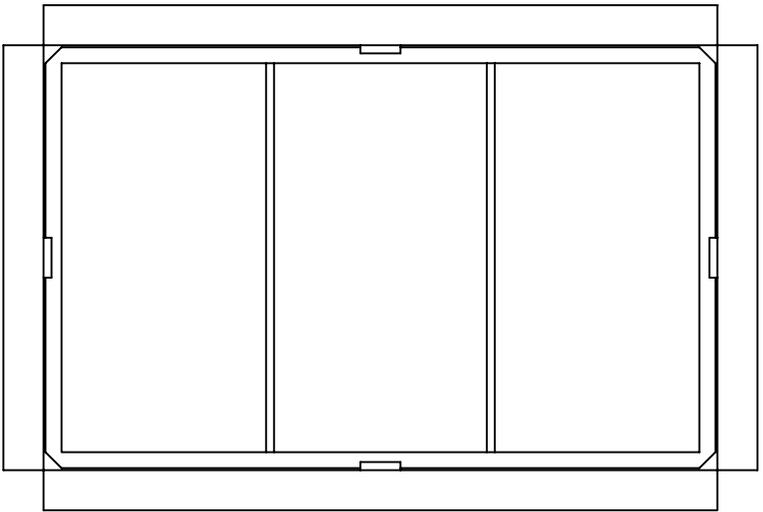


GENERAL NOTES:

FRAME: Top flange fabricated from 1/4"x1/4"x1/8" angle. Base rim fabricated from 1/2"x1/2"x1/8" channel. Handles and suspension brackets fabricated from 1/4"x1/4" flat stock. All steel conforming to ASTM-A36.
 SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

| DATE | REVISIONS | |
|----------|-----------|--------------------------|
| 01-11-02 | Original | |
| | | |
| | | |
| | | |
| | | Marathon Materials, Inc. |

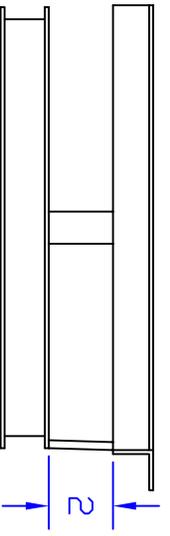
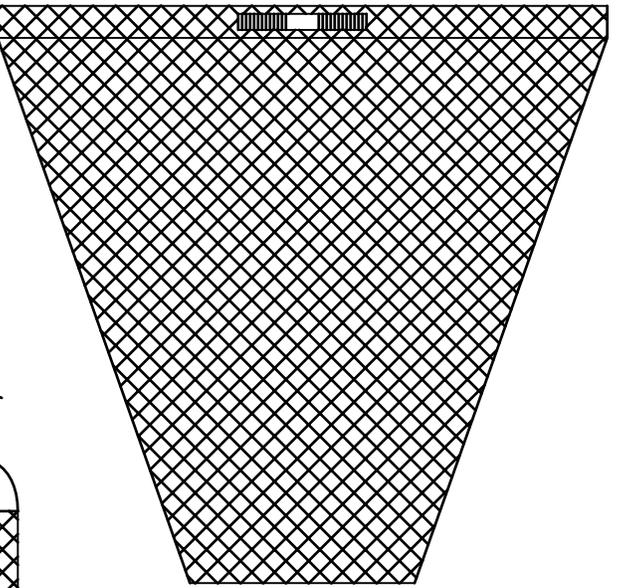
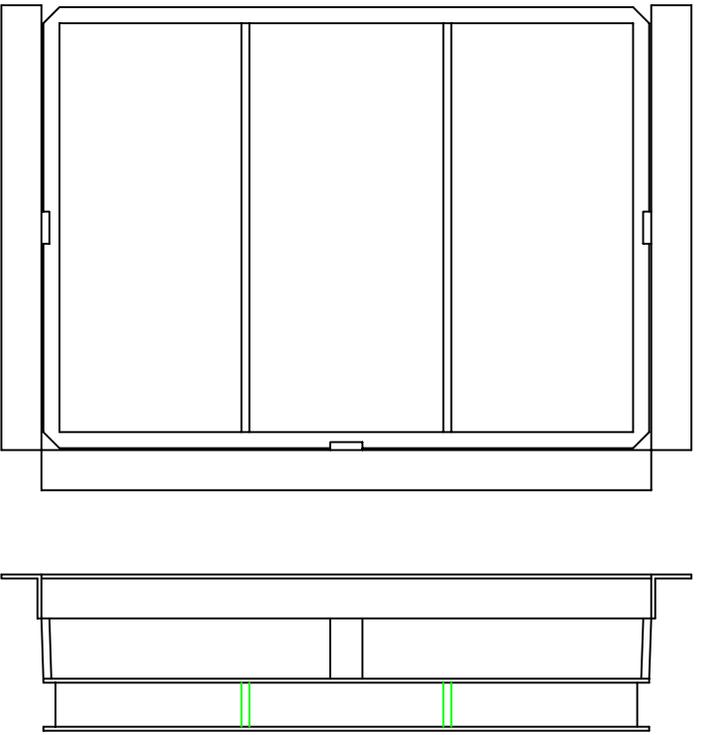
Typical Round
Catch-All



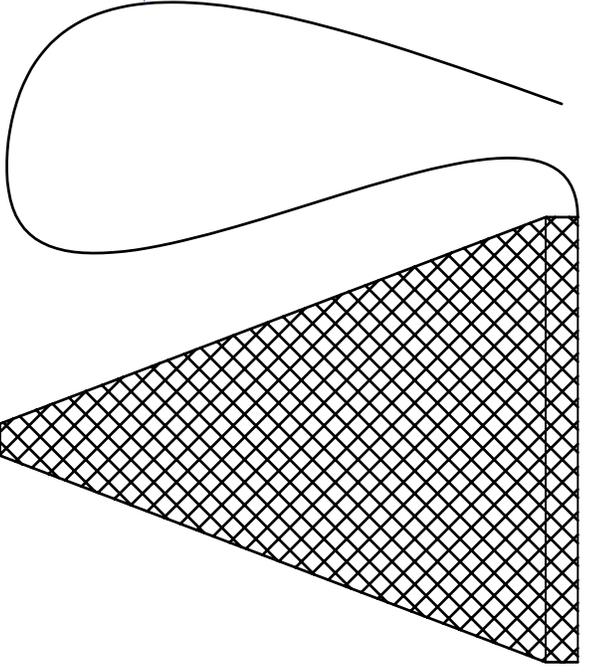
GENERAL NOTES:

FRAME: Top flange fabricated from 1/4"x1/4"x1/8" angle. Base rim fabricated from 1/2"x1/2"x1/8" channel. Handles and suspension brackets fabricated from 1/4"x1/4" flat stock. All steel conforming to ASTM-A36.
 SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

| DATE | REVISIONS |
|--|-----------|
| 01-22-02 | Original |
| | |
| | |
| | |
| | |
| Typical Rectangular Catch-All Marathon Materials, Inc. | |



Fabric Flap to
cover curb box



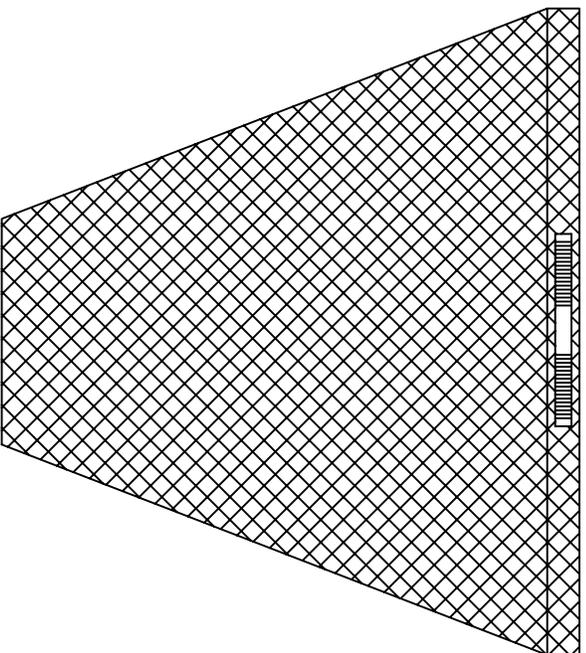
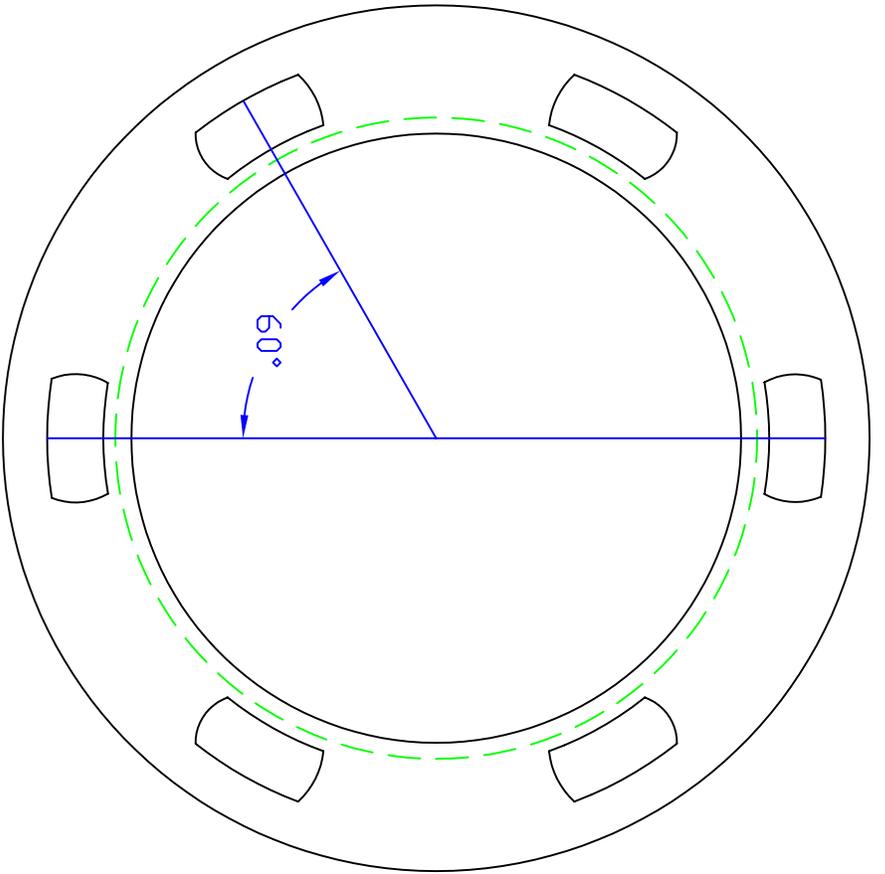
GENERAL NOTES:

FRAME: Top flange fabricated from 1/4"x1/4"x1/8" angle. Base rim fabricated from 1/2"x1/2"x1/8" channel. Handles and suspension brackets fabricated from 1/4"x1/4" flat stock. All steel conforming to ASTM-A36.
 SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

| DATE | REVISIONS |
|----------|------------------|
| 01-11-02 | Original |
| 05-07-04 | Remove Back Rail |
| | |
| | |
| | |

Typical Curb Box
Catch-All

Marathon Materials, Inc.



GENERAL NOTES:

FRAME: Top flange fabricated from 1/4"x1/4"x1/8" angle. Base rim fabricated from 1/2"x1/2"x1/8" channel. Handles and suspension brackets fabricated from 1/4"x1/4" flat stock. All steel conforming to ASTM-A36.

SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

| DATE | REVISIONS | |
|----------|-----------|--|
| 01-22-02 | Original | <p>Typical Beehive Catch-All</p> <p>Marathon Materials, Inc.</p> |
| | | |
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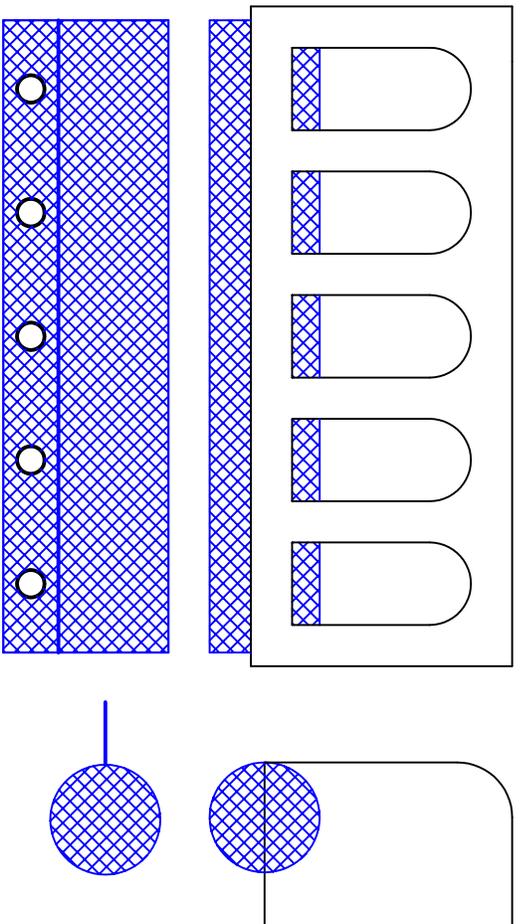
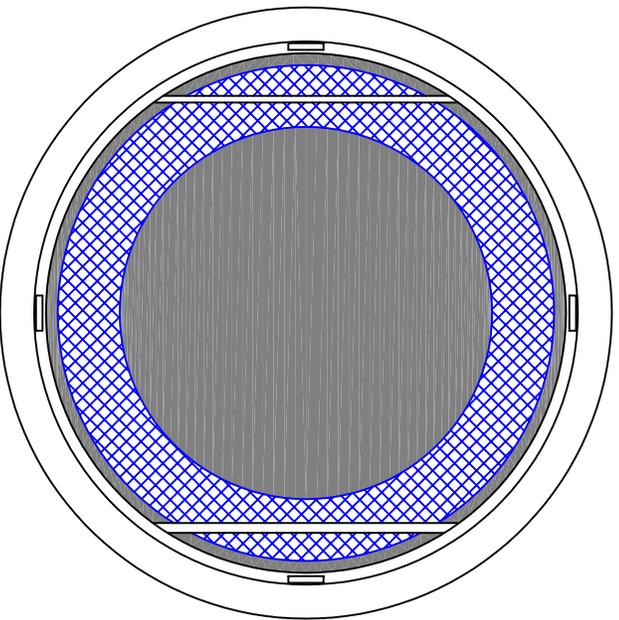
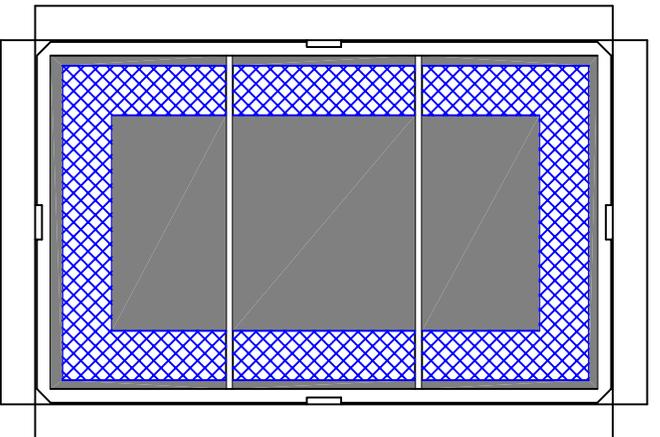
Catch-All HR



Catch-All Inlet Protector HR – combines all of the benefits of the standard Catch-All with the added benefit of hydrocarbon removal.

- Custom fitted to virtually any inlet casting
- Standard overflow feature
- Replaceable reinforced sediment bags
- Rugged welded steel frames
- Quick and simple installation & maintenance

Marathon Materials, Inc.
(800) 983-9493
25523 W. Schultz St.
Plainfield, IL 60544
www.marathonmaterials.com



This detail depicts the typical placement of the HR (hydrocarbon removal) pillow. An HR pillow is hemmed to the entire perimeter of the sediment bag +/- 4" from the top of the bag and extends +/- 4" towards center. Curb boxes are protected with a separate pillow that is secured to either the curb box vanes or the top flange of the Catch-All frame.

| DATE | REVISIONS | Catch-All HR Adsorbent Pillow |
|--------------------------|-----------|----------------------------------|
| 5.12.04 | Original | |
| | | |
| | | |
| Marathon Materials, Inc. | | |

Suggested Maintenance Catch-All Inlet Protector

The frequency and degree of maintenance required is dependent on site conditions and rainfall. Certain types of soil and run-off laden with hydrocarbons, (oil, solvents, etc.), tend to “*silt-up*” the fabric bags more quickly than others.

Generally, the bags can be emptied, inverted, washed, and re-used throughout an entire project. They may also be vacuumed. The bag must be replaced if it is severely worn or torn.

GUIDELINES FOR CONSTRUCTION SITES

1. Inspect the bag at least every 2 weeks – Clean, if needed
2. Inspect the bag every time there is rainfall totaling 1 or more inches – Clean, if needed
3. Replace the bag if it has a hole in it
4. Replace the bag if it appears clean but won’t pass water

Suggested Maintenance Catch-All HR

Typically, the Catch-All HR is installed in a paved parking lot or maintenance yard. The degree and frequency of maintenance required is generally far less than for Catch-Alls installed at construction sites.

GUIDELINES FOR PARKING LOTS & MAINTENANCE YARDS

1. Inspect the bag at least once per month – Clean, if needed
2. Inspect the bag every time there is rainfall totaling more than two inches – Clean, if needed
3. Replace the bag every 6 months; More often for harsh environments
4. Replace the bag after any oil, gasoline, or solvent spill
5. Replace the bag if it has a hole in it
6. Replace the bag if it appears clean but won’t pass water

INLET FILTER SYSTEM w/Hydrocarbon Removal

PART 1 GENERAL

1.01 WORK REQUIRED

An inlet filter system, as shown in the details, shall be installed and maintained in open grate frames as directed by the engineer.

1.02 SUBMITTALS

The contractor shall make submittals of the manufacturer's literature, shop drawings, installation and maintenance instructions, and other items in accordance with the provisions of the Standard Specifications.

PART 2 PRODUCTS

2.01 INLET FILTER SYSTEM HR

Inlet filter system HR shall consist of a replaceable reinforced filter bag with hydrocarbon removal capabilities suspended from a retainer ring, or frame. Inlet Filter Systems shall be the Catch-All **HR**, with Overflow, as furnished by Marathon Materials, Inc., or pre-approved equal.

The filter bag shall be constructed of a non-woven polypropylene filter geotextile fabric with a minimum weight of 4 oz./yd.², a minimum flow rate of 145 gal./min./ft.², and designed for a minimum silt and debris capacity of 2 cu. ft. The filter bag shall be reinforced with a polyester mesh fabric with a minimum weight of 4 oz./yd.² and shall be fitted with a hydrocarbon removal pillow. The hydrocarbon removal pillow shall be hemmed around the entire perimeter of the sediment bag and extend a minimum of four inches towards center. The pillow shall have the capacity to adsorb a minimum seven times its own weight of hydrocarbon-based pollutants. *Curb boxes shall be fitted with a separate pillow, meeting the same requirements, that extends the full width of the box.* The filter bag shall be suspended from a galvanized steel ring, or frame, conforming to ASTM-A36, utilizing a stainless steel band and locking clamp. The frame shall be designed with an overflow feature to prevent any ponding during heavy rainfall.

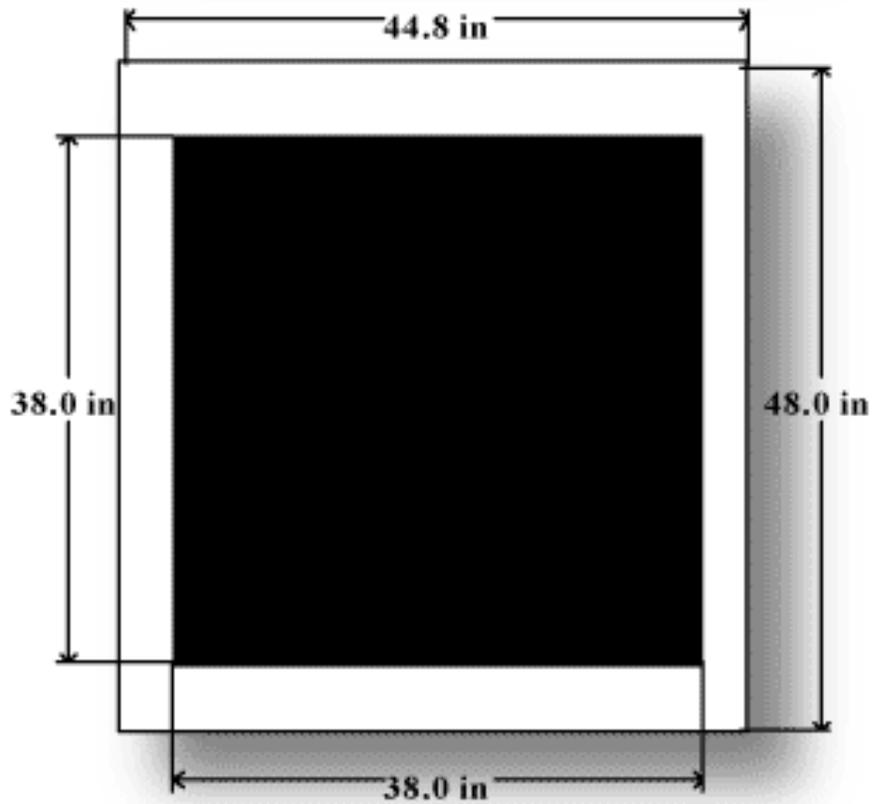
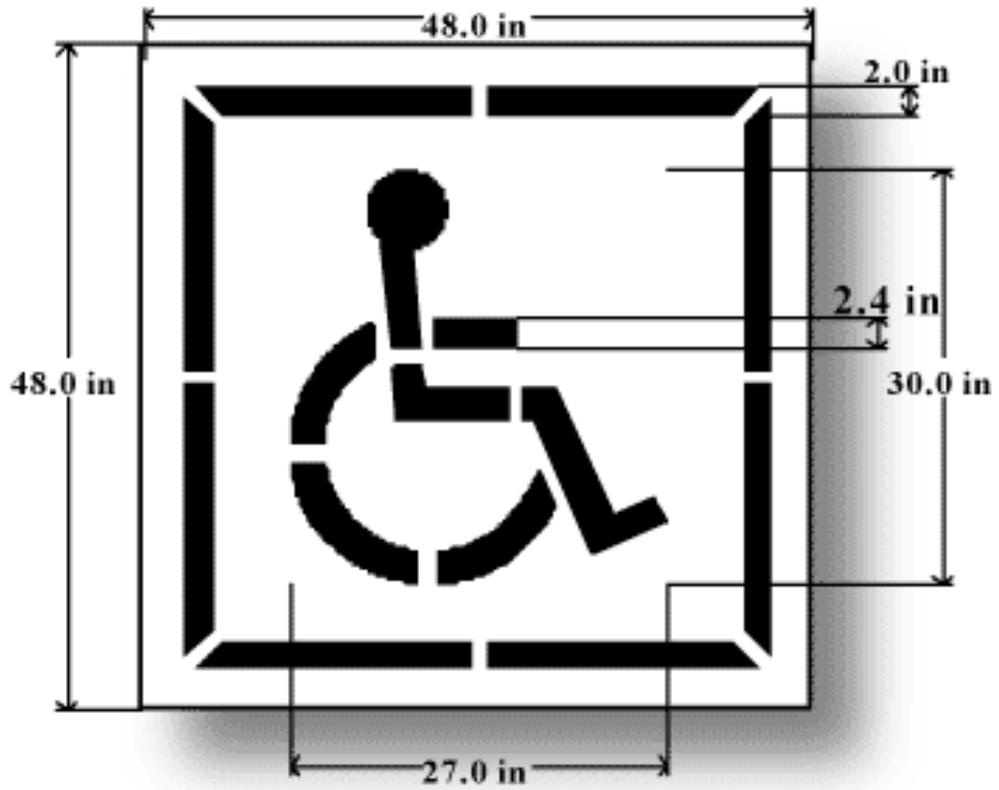
PART 3 MEASUREMENT AND PAYMENT

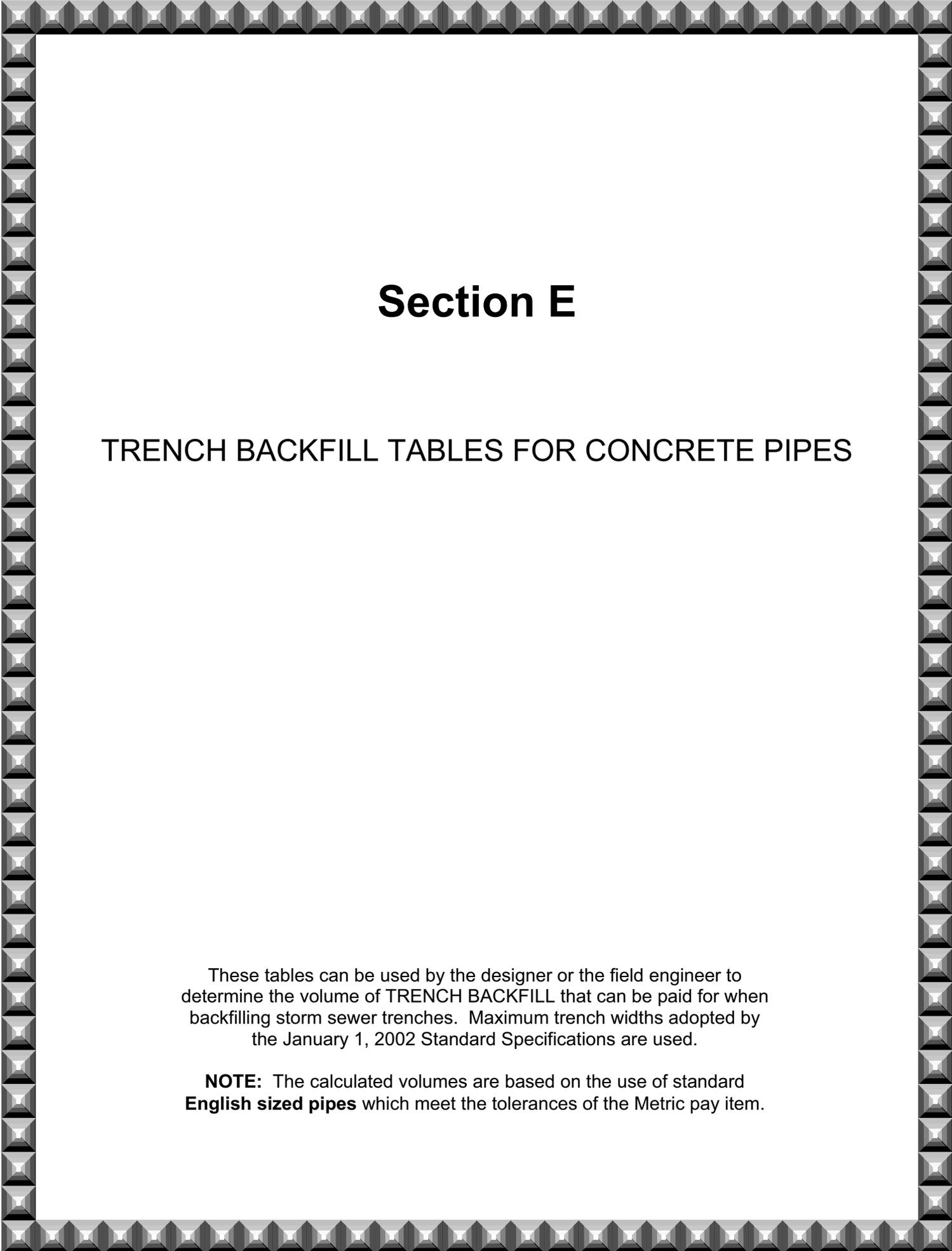
3.01 INLET FILTER SYSTEM

All costs for furnishing and installing the inlet filter system HR shall be included in the unit bid price. Periodic cleaning and new bags shall be paid for separately.

Handicap Stencil & Square (42 x 42 & 30H WC)

« Previous Product





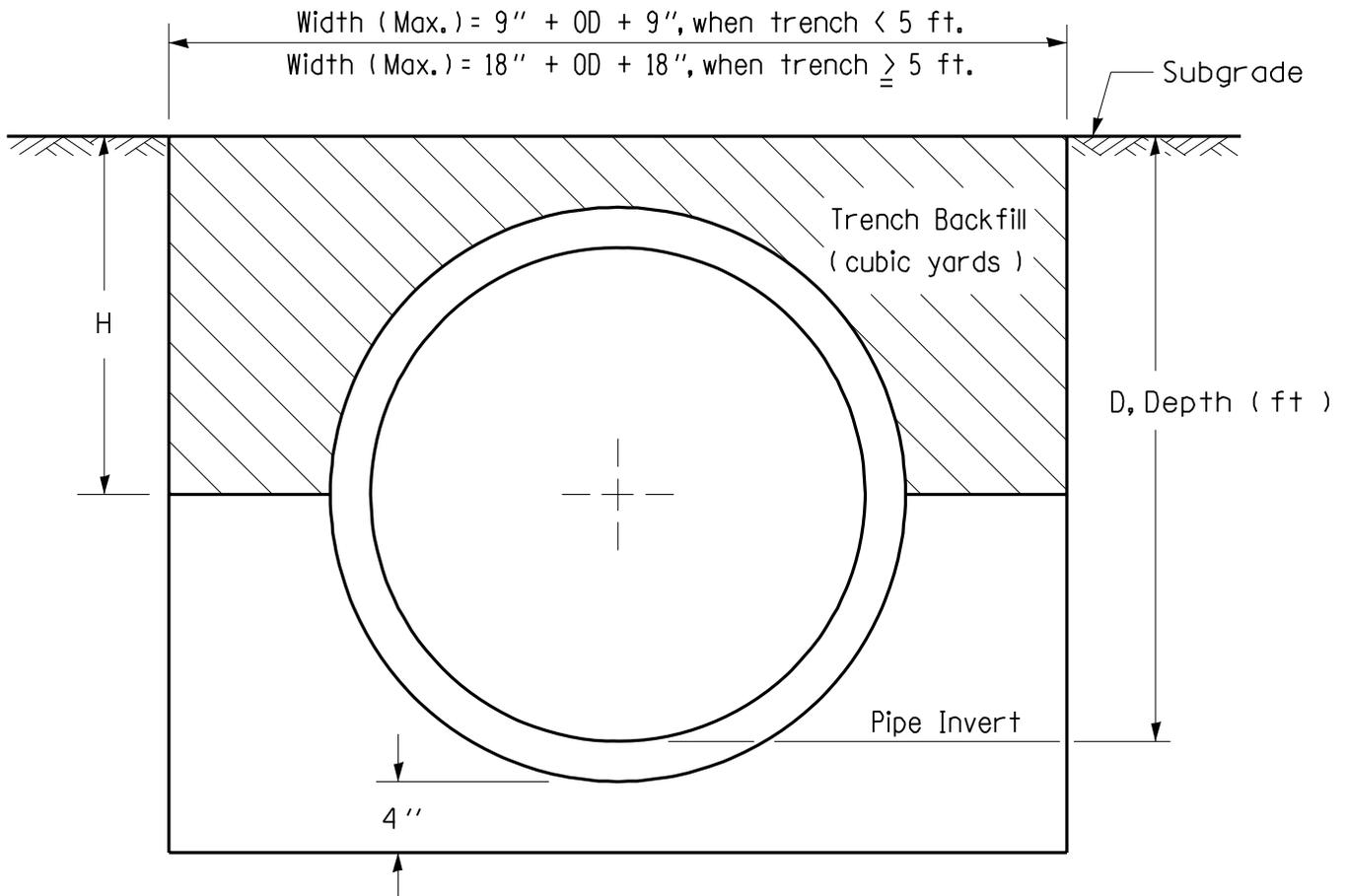
Section E

TRENCH BACKFILL TABLES FOR CONCRETE PIPES

These tables can be used by the designer or the field engineer to determine the volume of TRENCH BACKFILL that can be paid for when backfilling storm sewer trenches. Maximum trench widths adopted by the January 1, 2002 Standard Specifications are used.

NOTE: The calculated volumes are based on the use of standard **English sized pipes** which meet the tolerances of the Metric pay item.

TRENCH BACKFILL TABLE FOR CIRCULAR CONCRETE PIPE, ENGLISH



EXAMPLE

Given: Pipe = 42" Storm Sewer
 Average Depth, D = 6.8 feet
 Trench Length = 84.7 feet

Find: Cubic Yards or TRENCH BACKFILL

Solution: From Table, Cubic yard/lin. ft. = 1.093
 x Trench length = x 84.7
 TRENCH BACKFILL = 92.6 cu. yds.

NOTE: If the field engineer measures a width of trench less than the maximum permitted, the values included herein will be of no value. The actual volume of TRENCH BACKFILL used will therefore have to be calculated using the following formula:

$$\text{Cubic Yards} = \left[(H' \times W') - \left(\frac{\text{Pipe End Area}}{2} \right) \right] \times L' \times 1/27$$

VOLUME OF TRENCH BACKFILL (CU.YDS.) PER LINEAL FT. OF STORM SEWER

| Inside Diameter Wall thickness | 8" 1.667" | 10" 1.833" | 12" 2.00" | 15" 2.25" | 18" 2.50" | 21" 2.75" |
|-----------------------------------|--------------|---------------|--------------|--------------|--------------|--------------|
| 2.0 | 0.138 | 0.136 | 0.132 | 0.121 | 0.105 | 0.083 |
| 2.2 | 0.156 | 0.155 | 0.152 | 0.143 | 0.130 | 0.111 |
| 2.4 | 0.174 | 0.175 | 0.173 | 0.167 | 0.155 | 0.138 |
| 2.6 | 0.192 | 0.194 | 0.194 | 0.190 | 0.180 | 0.166 |
| 2.8 | 0.210 | 0.214 | 0.215 | 0.213 | 0.205 | 0.193 |
| 3.0 | 0.228 | 0.234 | 0.236 | 0.236 | 0.231 | 0.220 |
| 3.2 | 0.246 | 0.253 | 0.257 | 0.259 | 0.256 | 0.248 |
| 3.4 | 0.264 | 0.272 | 0.278 | 0.282 | 0.281 | 0.275 |
| 3.6 | 0.282 | 0.292 | 0.299 | 0.305 | 0.307 | 0.303 |
| 3.8 | 0.300 | 0.311 | 0.320 | 0.329 | 0.332 | 0.330 |
| 4.0 | 0.319 | 0.331 | 0.341 | 0.352 | 0.358 | 0.358 |
| 4.2 | 0.336 | 0.350 | 0.362 | 0.375 | 0.383 | 0.385 |
| 4.4 | 0.354 | 0.370 | 0.383 | 0.398 | 0.408 | 0.413 |
| 4.6 | 0.610 | 0.622 | 0.632 | 0.642 | 0.647 | 0.647 |
| 4.8 | 0.639 | 0.653 | 0.664 | 0.676 | 0.684 | 0.686 |
| 5.0 | 0.668 | 0.683 | 0.696 | 0.711 | 0.720 | 0.724 |
| 5.2 | 0.698 | 0.714 | 0.728 | 0.745 | 0.756 | 0.763 |
| 5.4 | 0.727 | 0.745 | 0.760 | 0.779 | 0.793 | 0.801 |
| 5.6 | 0.756 | 0.776 | 0.792 | 0.813 | 0.829 | 0.840 |
| 5.8 | 0.785 | 0.807 | 0.824 | 0.848 | 0.866 | 0.879 |
| 6.0 | 0.815 | 0.837 | 0.856 | 0.882 | 0.902 | 0.918 |
| 6.2 | 0.844 | 0.867 | 0.888 | 0.916 | 0.938 | 0.956 |
| 6.4 | 0.873 | 0.898 | 0.921 | 0.950 | 0.975 | 0.994 |
| 6.6 | 0.903 | 0.929 | 0.953 | 0.985 | 1.011 | 1.033 |
| 6.8 | 0.932 | 0.959 | 0.985 | 1.019 | 1.048 | 1.071 |
| 7.0 | 0.961 | 0.990 | 1.017 | 1.053 | 1.084 | 1.110 |
| 7.2 | 0.990 | 1.021 | 1.049 | 1.087 | 1.121 | 1.149 |
| 7.4 | 1.019 | 1.051 | 1.081 | 1.122 | 1.157 | 1.187 |
| 7.6 | 1.049 | 1.082 | 1.113 | 1.156 | 1.193 | 1.226 |
| 7.8 | 1.078 | 1.113 | 1.145 | 1.190 | 1.230 | 1.264 |
| 8.0 | 1.107 | 1.143 | 1.177 | 1.224 | 1.266 | 1.303 |
| 8.2 | 1.136 | 1.174 | 1.209 | 1.259 | 1.303 | 1.342 |
| 8.4 | 1.165 | 1.205 | 1.241 | 1.293 | 1.340 | 1.380 |
| 8.6 | 1.195 | 1.235 | 1.274 | 1.328 | 1.376 | 1.419 |
| 8.8 | 1.224 | 1.266 | 1.306 | 1.362 | 1.412 | 1.458 |
| 9.0 | 1.253 | 1.297 | 1.338 | 1.396 | 1.449 | 1.496 |
| 9.2 | 1.282 | 1.327 | 1.370 | 1.430 | 1.485 | 1.535 |
| 9.4 | 1.311 | 1.358 | 1.402 | 1.465 | 1.522 | 1.574 |
| 9.6 | 1.341 | 1.389 | 1.435 | 1.499 | 1.558 | 1.612 |
| 9.8 | 1.370 | 1.419 | 1.467 | 1.533 | 1.594 | 1.651 |
| 10.0 | 1.399 | 1.450 | 1.499 | 1.568 | 1.631 | 1.689 |
| 10.2 | 1.428 | 1.481 | 1.531 | 1.602 | 1.667 | 1.728 |
| 10.4 | 1.457 | 1.511 | 1.563 | 1.636 | 1.704 | 1.767 |
| 10.6 | 1.487 | 1.542 | 1.595 | 1.671 | 1.740 | 1.805 |
| 10.8 | 1.516 | 1.573 | 1.627 | 1.705 | 1.776 | 1.844 |
| 11.0 | 1.545 | 1.603 | 1.659 | 1.739 | 1.813 | 1.882 |
| 11.2 | 1.574 | 1.634 | 1.691 | 1.773 | 1.849 | 1.921 |
| 11.4 | 1.603 | 1.665 | 1.723 | 1.808 | 1.886 | 1.960 |
| 11.6 | 1.633 | 1.696 | 1.755 | 1.842 | 1.922 | 1.998 |
| 11.8 | 1.662 | 1.726 | 1.788 | 1.876 | 1.958 | 2.037 |
| For each additional 0.2' depth | +0.0292 | +0.0307 | +0.0321 | +0.0343 | +0.0364 | +0.0386 |

VOLUME OF TRENCH BACKFILL (CU.YDS.) PER LINEAL FT. OF STORM SEWER

| Inside Diameter Wall thickness | 24" 3.00" | 27" 3.25" | 30" 3.50" | 33" 3.75" | 36" 4.00" | 42" 4.50" |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 2.4 | 0.116 | | | | | |
| 2.6 | 0.146 | 0.121 | | | | |
| 2.8 | 0.175 | 0.152 | 0.124 | | | |
| 3.0 | 0.205 | 0.184 | 0.158 | | | |
| 3.2 | 0.235 | 0.216 | 0.192 | 0.163 | | |
| 3.4 | 0.264 | 0.248 | 0.226 | 0.199 | 0.168 | |
| 3.6 | 0.294 | 0.280 | 0.260 | 0.236 | 0.206 | |
| 3.8 | 0.323 | 0.311 | 0.294 | 0.272 | 0.244 | |
| 4.0 | 0.353 | 0.343 | 0.328 | 0.308 | 0.282 | 0.216 |
| 4.2 | 0.383 | 0.375 | 0.362 | 0.344 | 0.321 | 0.259 |
| 4.4 | 0.412 | 0.407 | 0.571 | 0.548 | 0.520 | 0.448 |
| 4.6 | 0.642 | 0.632 | 0.616 | 0.595 | 0.569 | 0.502 |
| 4.8 | 0.683 | 0.674 | 0.661 | 0.643 | 0.619 | 0.556 |
| 5.0 | 0.723 | 0.717 | 0.706 | 0.690 | 0.668 | 0.610 |
| 5.2 | 0.764 | 0.760 | 0.751 | 0.737 | 0.718 | 0.663 |
| 5.4 | 0.805 | 0.803 | 0.796 | 0.784 | 0.767 | 0.717 |
| 5.6 | 0.846 | 0.846 | 0.841 | 0.831 | 0.816 | 0.771 |
| 5.8 | 0.886 | 0.889 | 0.886 | 0.879 | 0.866 | 0.824 |
| 6.0 | 0.927 | 0.932 | 0.931 | 0.926 | 0.915 | 0.878 |
| 6.2 | 0.968 | 0.975 | 0.976 | 0.973 | 0.964 | 0.932 |
| 6.4 | 1.009 | 1.018 | 1.022 | 1.020 | 1.014 | 0.985 |
| 6.6 | 1.049 | 1.061 | 1.067 | 1.068 | 1.063 | 1.039 |
| 6.8 | 1.090 | 1.103 | 1.112 | 1.115 | 1.113 | 1.093 |
| 7.0 | 1.131 | 1.146 | 1.157 | 1.162 | 1.162 | 1.147 |
| 7.2 | 1.172 | 1.189 | 1.202 | 1.209 | 1.211 | 1.200 |
| 7.4 | 1.212 | 1.232 | 1.247 | 1.256 | 1.261 | 1.254 |
| 7.6 | 1.253 | 1.275 | 1.292 | 1.304 | 1.310 | 1.308 |
| 7.8 | 1.294 | 1.318 | 1.337 | 1.351 | 1.359 | 1.361 |
| 8.0 | 1.335 | 1.361 | 1.382 | 1.398 | 1.409 | 1.415 |
| 8.2 | 1.375 | 1.404 | 1.427 | 1.445 | 1.458 | 1.469 |
| 8.4 | 1.416 | 1.447 | 1.473 | 1.493 | 1.508 | 1.523 |
| 8.6 | 1.457 | 1.490 | 1.518 | 1.540 | 1.557 | 1.577 |
| 8.8 | 1.498 | 1.533 | 1.563 | 1.587 | 1.607 | 1.630 |
| 9.0 | 1.539 | 1.576 | 1.608 | 1.635 | 1.656 | 1.684 |
| 9.2 | 1.579 | 1.619 | 1.653 | 1.682 | 1.706 | 1.738 |
| 9.4 | 1.620 | 1.662 | 1.698 | 1.729 | 1.755 | 1.791 |
| 9.6 | 1.661 | 1.704 | 1.743 | 1.776 | 1.804 | 1.845 |
| 9.8 | 1.701 | 1.747 | 1.788 | 1.823 | 1.854 | 1.899 |
| 10.0 | 1.742 | 1.790 | 1.833 | 1.871 | 1.903 | 1.953 |
| 10.2 | 1.783 | 1.833 | 1.878 | 1.918 | 1.953 | 2.006 |
| 10.4 | 1.824 | 1.876 | 1.924 | 1.965 | 2.002 | 2.060 |
| 10.6 | 1.864 | 1.919 | 1.968 | 2.012 | 2.051 | 2.114 |
| 10.8 | 1.905 | 1.962 | 2.013 | 2.060 | 2.100 | 2.167 |
| 11.0 | 1.946 | 2.005 | 2.058 | 2.107 | 2.150 | 2.221 |
| 11.2 | 1.987 | 2.048 | 2.103 | 2.154 | 2.199 | 2.275 |
| 11.4 | 2.028 | 2.091 | 2.148 | 2.201 | 2.249 | 2.328 |
| 11.6 | 2.068 | 2.133 | 2.193 | 2.249 | 2.298 | 2.382 |
| 11.8 | 2.109 | 2.176 | 2.239 | 2.296 | 2.347 | 2.436 |
| 12.0 | 2.150 | 2.219 | 2.284 | 2.343 | 2.397 | 2.490 |
| 12.2 | 2.191 | 2.262 | 2.329 | 2.390 | 2.446 | 2.543 |
| For each additional 0.2' depth: | +0.0407 | +0.0429 | +0.0451 | +0.0472 | +0.0494 | +0.0537 |

VOLUME OF TRENCH BACKFILL (CU.YDS.) PER LINEAL FT. OF STORM SEWER

| Inside Diameter Wall thickness | 48" 5.00" | 54" 5.50" | 60" 6.00" | 66" 6.50" | 72" 7.00" | 78" 7.50" |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 4.6 | 0.414 | | | | | |
| 4.8 | 0.472 | | | | | |
| 5.0 | 0.530 | 0.430 | | | | |
| 5.2 | 0.588 | 0.492 | | | | |
| 5.4 | 0.646 | 0.555 | | | | |
| 5.6 | 0.704 | 0.617 | 0.509 | | | |
| 5.8 | 0.762 | 0.679 | 0.576 | | | |
| 6.0 | 0.820 | 0.742 | 0.643 | | | |
| 6.2 | 0.878 | 0.804 | 0.709 | 0.594 | | |
| 6.4 | 0.936 | 0.866 | 0.776 | 0.665 | | |
| 6.6 | 0.994 | 0.929 | 0.843 | 0.736 | 0.608 | |
| 6.8 | 1.052 | 0.991 | 0.909 | 0.807 | 0.683 | |
| 7.0 | 1.110 | 1.053 | 0.976 | 0.878 | 0.759 | |
| 7.2 | 1.168 | 1.116 | 1.043 | 0.949 | 0.834 | 0.699 |
| 7.4 | 1.226 | 1.178 | 1.109 | 1.020 | 0.909 | 0.778 |
| 7.6 | 1.284 | 1.240 | 1.176 | 1.091 | 0.985 | 0.858 |
| 7.8 | 1.342 | 1.303 | 1.243 | 1.162 | 1.060 | 0.938 |
| 8.0 | 1.400 | 1.365 | 1.309 | 1.233 | 1.135 | 1.017 |
| 8.2 | 1.458 | 1.428 | 1.376 | 1.304 | 1.211 | 1.097 |
| 8.4 | 1.517 | 1.490 | 1.443 | 1.375 | 1.286 | 1.177 |
| 8.6 | 1.575 | 1.553 | 1.510 | 1.446 | 1.362 | 1.257 |
| 8.8 | 1.633 | 1.615 | 1.576 | 1.517 | 1.437 | 1.336 |
| 9.0 | 1.691 | 1.677 | 1.643 | 1.588 | 1.512 | 1.416 |
| 9.2 | 1.749 | 1.739 | 1.710 | 1.659 | 1.588 | 1.495 |
| 9.4 | 1.807 | 1.802 | 1.776 | 1.730 | 1.663 | 1.575 |
| 9.6 | 1.865 | 1.864 | 1.843 | 1.801 | 1.738 | 1.655 |
| 9.8 | 1.923 | 1.927 | 1.910 | 1.872 | 1.813 | 1.734 |
| 10.0 | 1.981 | 1.989 | 1.977 | 1.943 | 1.889 | 1.814 |
| 10.2 | 2.039 | 2.051 | 2.043 | 2.014 | 1.964 | 1.893 |
| 10.4 | 2.097 | 2.113 | 2.110 | 2.085 | 2.039 | 1.973 |
| 10.6 | 2.155 | 2.176 | 2.177 | 2.156 | 2.115 | 2.053 |
| 10.8 | 2.213 | 2.238 | 2.243 | 2.227 | 2.190 | 2.132 |
| 11.0 | 2.271 | 2.300 | 2.310 | 2.298 | 2.265 | 2.212 |
| 11.2 | 2.329 | 2.363 | 2.377 | 2.369 | 2.341 | 2.292 |
| 11.4 | 2.387 | 2.425 | 2.443 | 2.440 | 2.416 | 2.371 |
| 11.6 | 2.445 | 2.487 | 2.509 | 2.511 | 2.491 | 2.451 |
| 11.8 | 2.503 | 2.550 | 2.576 | 2.582 | 2.566 | 2.531 |
| 12.0 | 2.561 | 2.612 | 2.643 | 2.653 | 2.642 | 2.610 |
| 12.2 | 2.619 | 2.675 | 2.709 | 2.724 | 2.717 | 2.690 |
| 12.4 | 2.677 | 2.738 | 2.776 | 2.795 | 2.792 | 2.770 |
| 12.6 | 2.735 | 2.800 | 2.843 | 2.866 | 2.868 | 2.849 |
| 12.8 | 2.793 | 2.862 | 2.909 | 2.937 | 2.943 | 2.929 |
| 13.0 | 2.852 | 2.925 | 2.976 | 3.008 | 3.018 | 3.008 |
| 13.2 | 2.910 | 2.987 | 3.043 | 3.079 | 3.094 | 3.088 |
| 13.4 | 2.968 | 3.049 | 3.110 | 3.150 | 3.169 | 3.168 |
| 13.6 | 3.026 | 3.111 | 3.176 | 3.221 | 3.244 | 3.247 |
| 13.8 | 3.084 | 3.174 | 3.243 | 3.292 | 3.320 | 3.327 |
| 14.0 | 3.142 | 3.236 | 3.310 | 3.363 | 3.395 | 3.407 |
| 14.2 | 3.200 | 3.298 | 3.376 | 3.434 | 3.470 | 3.486 |
| 12.4 | 3.258 | 3.361 | 3.443 | 3.505 | 3.545 | 3.566 |
| For each additional 0.2' depth | +0.0580 | +0.0623 | +0.0667 | +0.0710 | +0.0753 | +0.0796 |

VOLUME OF TRENCH BACKFILL (CU.YDS.) PER LINEAL FT. OF STORM SEWER

| Inside Diameter Wall thickness | 84" 8.00" | 90" 8.50" | 96" 9.00" | 102" 9.50" | 108" 10.00" |
|-----------------------------------|--------------|--------------|--------------|---------------|----------------|
| 7.8 | 0.795 | | | | |
| 8.0 | 0.879 | | | | |
| 8.2 | 0.963 | | | | |
| 8.4 | 1.047 | 0.896 | | | |
| 8.6 | 1.131 | 0.984 | | | |
| 8.8 | 1.215 | 1.073 | 0.910 | 0.726 | 0.522 |
| 9.0 | 1.299 | 1.161 | 1.002 | 0.823 | 0.623 |
| 9.2 | 1.382 | 1.249 | 1.095 | 0.920 | 0.724 |
| 9.4 | 1.466 | 1.338 | 1.187 | 1.017 | 0.825 |
| 9.6 | 1.550 | 1.426 | 1.280 | 1.114 | 0.927 |
| 9.8 | 1.634 | 1.514 | 1.373 | 1.211 | 1.028 |
| 10.0 | 1.718 | 1.602 | 1.467 | 1.307 | 1.129 |
| 10.2 | 1.802 | 1.690 | 1.558 | 1.404 | 1.230 |
| 10.4 | 1.886 | 1.778 | 1.650 | 1.501 | 1.331 |
| 10.6 | 1.970 | 1.866 | 1.743 | 1.598 | 1.433 |
| 10.8 | 2.054 | 1.955 | 1.835 | 1.695 | 1.534 |
| 11.0 | 2.138 | 2.043 | 1.928 | 1.792 | 1.635 |
| 11.2 | 2.222 | 2.131 | 2.021 | 1.889 | 1.737 |
| 11.4 | 2.306 | 2.220 | 2.113 | 1.986 | 1.838 |
| 11.6 | 2.390 | 2.308 | 2.206 | 2.083 | 1.939 |
| 11.8 | 2.474 | 2.396 | 2.298 | 2.180 | 2.040 |
| 12.0 | 2.558 | 2.485 | 2.391 | 2.277 | 2.141 |
| 12.2 | 2.642 | 2.573 | 2.484 | 2.374 | 2.243 |
| 12.4 | 2.726 | 2.661 | 2.576 | 2.471 | 2.344 |
| 12.6 | 2.810 | 2.749 | 2.669 | 2.567 | 2.445 |
| 12.8 | 2.894 | 2.838 | 2.761 | 2.664 | 2.547 |
| 13.0 | 2.978 | 2.926 | 2.854 | 2.761 | 2.648 |
| 13.2 | 3.062 | 3.014 | 2.947 | 2.858 | 2.749 |
| 13.4 | 3.146 | 3.102 | 3.039 | 2.955 | 2.850 |
| 13.6 | 3.230 | 3.191 | 3.132 | 3.052 | 2.951 |
| 13.8 | 3.314 | 3.279 | 3.224 | 3.149 | 3.053 |
| 14.0 | 3.398 | 3.367 | 3.317 | 3.246 | 3.154 |
| 14.2 | 3.482 | 3.455 | 3.410 | 3.343 | 3.255 |
| 14.4 | 3.566 | 3.544 | 3.502 | 3.440 | 3.357 |
| 14.6 | 3.649 | 3.632 | 3.595 | 3.537 | 3.458 |
| 14.8 | 3.733 | 3.720 | 3.687 | 3.634 | 3.559 |
| 15.0 | 3.817 | 3.809 | 3.780 | 3.730 | 3.660 |
| 15.2 | 3.901 | 3.897 | 3.873 | 3.827 | 3.761 |
| 15.4 | 3.985 | 3.985 | 3.965 | 3.924 | 3.863 |
| 15.6 | 4.069 | 4.074 | 4.058 | 4.021 | 3.964 |
| 15.8 | 4.153 | 4.162 | 4.150 | 4.118 | 4.065 |
| 16.0 | 4.237 | 4.250 | 4.243 | 4.215 | 4.166 |
| 16.2 | 4.321 | 4.338 | 4.335 | 4.312 | 4.268 |
| 16.4 | 4.405 | 4.426 | 4.428 | 4.409 | 4.369 |
| 16.6 | 4.488 | 4.515 | 4.521 | 4.506 | 4.470 |
| 16.8 | 4.572 | 4.603 | 4.613 | 4.603 | 4.571 |
| 17.0 | 4.656 | 4.691 | 4.706 | 4.699 | 4.672 |
| 17.2 | 4.740 | 4.780 | 4.798 | 4.796 | 4.774 |
| 17.4 | 4.824 | 4.868 | 4.891 | 4.893 | 4.875 |
| 17.6 | 4.908 | 4.956 | 4.984 | 4.990 | 4.976 |
| For each additional 0.2' depth: | | | | | |
| | +0.0839 | +0.0883 | +0.0926 | +0.0969 | +0.1012 |

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2017

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 4-1-16) (Revised 1-1-17)

SUPPLEMENTAL SPECIFICATIONS

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| 403 | Bituminous Surface Treatment (Class A-1, A-2, A-3) | 2 |
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| 502 | Excavation for Structures | 5 |
| 503 | Concrete Structures | 7 |
| 504 | Precast Concrete Structures | 10 |
| 542 | Pipe Culverts | 11 |
| 586 | Sand Backfill for Vaulted Abutments | 12 |
| 670 | Engineer's Field Office and Laboratory | 14 |
| 704 | Temporary Concrete Barrier | 15 |
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CHECK SHEET
FOR
RECURRING SPECIAL PROVISIONS

Adopted April 1, 2016

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

| <u>CHECK SHEET #</u> | <u>RECURRING SPECIAL PROVISIONS</u> | <u>PAGE NO.</u> |
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| 1 | <input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts | 1 |
| 2 | <input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts) | 4 |
| 3 | <input type="checkbox"/> EEO | 5 |
| 4 | <input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts | 15 |
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| 6 | <input type="checkbox"/> Asbestos Bearing Pad Removal | 26 |
| 7 | <input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal | 27 |
| 8 | <input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads | 28 |
| 9 | <input type="checkbox"/> Construction Layout Stakes Except for Bridges | 29 |
| 10 | <input type="checkbox"/> Construction Layout Stakes | 32 |
| 11 | <input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing | 35 |
| 12 | <input type="checkbox"/> Subsealing of Concrete Pavements | 37 |
| 13 | <input type="checkbox"/> Hot-Mix Asphalt Surface Correction | 41 |
| 14 | <input type="checkbox"/> Pavement and Shoulder Resurfacing | 43 |
| 15 | <input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal | 44 |
| 16 | <input type="checkbox"/> Polymer Concrete | 45 |
| 17 | <input type="checkbox"/> PVC Pipeliner | 47 |
| 18 | <input type="checkbox"/> Bicycle Racks | 48 |
| 19 | <input type="checkbox"/> Temporary Portable Bridge Traffic Signals | 50 |
| 20 | <input type="checkbox"/> Work Zone Public Information Signs | 52 |
| 21 | <input type="checkbox"/> Nighttime Inspection of Roadway Lighting | 53 |
| 22 | <input type="checkbox"/> English Substitution of Metric Bolts | 54 |
| 23 | <input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete | 55 |
| 24 | <input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant | 56 |
| 25 | <input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures | 64 |
| 26 | <input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations | 80 |
| 27 | <input type="checkbox"/> Pavement Marking Removal | 82 |
| 28 | <input type="checkbox"/> Preventive Maintenance – Bituminous Surface Treatment | 83 |
| 29 | <input type="checkbox"/> Preventive Maintenance – Cape Seal | 89 |
| 30 | <input type="checkbox"/> Preventive Maintenance – Micro-Surfacing | 104 |
| 31 | <input type="checkbox"/> Preventive Maintenance – Slurry Seal | 115 |
| 32 | <input type="checkbox"/> Temporary Raised Pavement Markers | 125 |
| 33 | <input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam | 126 |

CHECK SHEET
FOR
LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Adopted April 1, 2016

The following LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

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| LRS 1 | Reserved | 130 |
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| LRS 3 | <input type="checkbox"/> Work Zone Traffic Control Surveillance | 132 |
| LRS 4 | <input type="checkbox"/> Flaggers in Work Zones | 133 |
| LRS 5 | <input type="checkbox"/> Contract Claims | 134 |
| LRS 6 | <input type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals | 135 |
| LRS 7 | <input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals | 141 |
| LRS 8 | Reserved | 147 |
| LRS 9 | <input type="checkbox"/> Bituminous Surface Treatments | 148 |
| LRS 10 | Reserved | 149 |
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| LRS 12 | <input type="checkbox"/> Wages of Employees on Public Works | 152 |
| LRS 13 | <input type="checkbox"/> Selection of Labor | 154 |
| LRS 14 | <input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks | 155 |
| LRS 15 | <input type="checkbox"/> Partial Payments | 158 |
| LRS 16 | <input type="checkbox"/> Protests on Local Lettings | 159 |
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State of Illinois
DEPARTMENT OF TRANSPORTATION
Bureau of Local Roads & Streets

SPECIAL PROVISION
FOR
FILLING HMA CORE HOLES WITH NON-SHRINK GROUT

Effective: January 1, 2008

All references to Sections and Articles in this Special Provision shall be construed to mean specific Sections and Articles in the Standard Specifications for Road and Bridge Construction adopted by the Department of Transportation.

Add the following after the first paragraph of Article 406.07(c) of the Standard Specifications:

“Upon completion of coring for density testing, all free water shall be removed from the core holes prior to filling. All core holes shall be filled with a non-shrink grout from the Department’s approved list, which shall be mixed in a separate container prior to placement in the hole. Only enough water to permit placement and consolidation by rodding shall be used, and the material shall be struck-off flush with the adjacent pavement.”

Maintenance of Roadways

Effective: September 30, 1985

Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

TRAFFIC CONTROL PLAN

Effective: September 30, 1985

Revised: January 1, 2007

Traffic Control shall be according to the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein.

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the District One Bureau of Traffic at least 72 hours in advance of beginning work.

STANDARDS: 701501-06, 701611-01, 701901-06, 701606-10, 780001-05, 781001-04,
701801-06

DETAILS: TC-10, TC-13.

SPECIAL PROVISIONS: Traffic Control and Protection, LRS 3 Work Zone Traffic Control, LRS 4 Flaggers in Work Zones, District 1 - Maintenance of Roadways

STATUS OF UTILITIES TO BE ADJUSTED

Effective: January 30, 1987

Revised: January 24, 2013

Utilities companies involved in this project have provided the following estimated durations:

| Name of Utility | Type | Location | Estimated Duration of Time for the Completion of Relocation or Adjustments |
|--|-------------|----------|--|
| AT&T Janet Ahern (630) 573-6414 | Telecom | | No planned relocations |
| Comcast Martha Gieras (630) 600-6352 | Cable | | No planned relocations |
| Northern Illinois Gas Co. Bruce Koppang (630) 388-3046 | Natural Gas | | No planned relocations |
| Commonwealth Edison Peter Kratzer 708-518-6209 | Electricity | | No planned relocations |
| | | | |
| | | | |

The above represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of Articles 105.07 and 107.31 of the Standard Specifications shall apply.

In accordance with 605 ILCS 5/9-113 of the Illinois Compiled Statutes, utility companies have 90 days to complete the relocation of their facilities after receipt of written notice from the Department. The 90-day written notice will be sent to the utility companies after the following occurs:

- 1) Proposed right of way is clear for contract award.
- 2) Final plans have been sent to and received by the utility company.
- 3) Utility permit is received by the Department and the Department is ready to issue said permit.
- 4) If a permit has not been submitted, a 15 day letter is sent to the utility company notifying them they have 15 days to provide their permit application. After allowing 15 days for submission of the permit the 90 day notice is sent to the utility company.
- 5) Any time within the 90 day relocation period the utility company may request a waiver for additional time to complete their relocation. The Department has 10 days to review and respond to a waiver request.

ADJUSTMENTS AND RECONSTRUCTIONS

Effective: March 15, 2011

Revise the first paragraph of Article 602.04 to read:

“602.04 Concrete. Cast-in-place concrete for structures shall be constructed of Class SI concrete according to the applicable portions of Section 503. Cast-in-place concrete for pavement patching around adjustments and reconstructions shall be constructed of Class PP-1 concrete, unless otherwise noted in the plans, according to the applicable portions of Section 1020.”

Revise the third, fourth and fifth sentences of the second paragraph of Article 602.11(c) to read:

“Castings shall be set to the finished pavement elevation so that no subsequent adjustment will be necessary, and the space around the casting shall be filled with Class PP-1 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b.”

Revise Article 603.05 to read:

“603.05 Replacement of Existing Flexible Pavement. After the castings have been adjusted, the surrounding space shall be filled with Class PP-1 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b.”

Revise Article 603.06 to read:

“603.06 Replacement of Existing Rigid Pavement. After the castings have been adjusted, the pavement and HMA that was removed, shall be replaced with Class PP-1 concrete, unless otherwise noted in the plans, not less than 9 in. (225 mm) thick. The pavement may be opened to traffic according to Article 701.17(e)(3)b.

The surface of the Class PP concrete shall be constructed flush with the adjacent surface.”

Revise the first sentence of Article 603.07 to read:

“603.07 Protection Under Traffic. After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b.”

DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (DISTRICT 1)

Effective: April 1, 2011
 Revised: April 2, 2011

Add the following to Article 603.02 of the Standard Specifications:

- “(i) Temporary Hot-Mix Asphalt (HMA) Ramp (Note 1) 1030
- “(j) Temporary Rubber Ramps (Note 2)

Note 1. The HMA shall have maximum aggregate size of 3/8 in. (95 mm).

Note 2. The rubber material shall be according to the following.

| Property | Test Method | Requirement |
|-----------------------------|-------------|----------------|
| Durometer Hardness, Shore A | ASTM D 2240 | 75 ±15 |
| Tensile Strength, psi (kPa) | ASTM D 412 | 300 (2000) min |
| Elongation, percent | ASTM D 412 | 90 min |
| Specific Gravity | ASTM D 792 | 1.0 - 1.3 |
| Brittleness, °F (°C) | ASTM D 746 | -40 (-40)” |

Revise Article 603.07 of the Standard Specifications to read:

“603.07 Protection Under Traffic. After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b.

When castings are under traffic before the final surfacing operation has been started, properly sized temporary ramps shall be placed around the drainage and/or utility castings according to the following methods.

- (a) Temporary Asphalt Ramps. Temporary hot-mix asphalt ramps shall be placed around the casting, flush with its surface and decreasing to a featheredge in a distance of 2 ft (600 mm) around the entire surface of the casting.
- (b) Temporary Rubber Ramps. Temporary rubber ramps shall only be used on roadways with permanent posted speeds of 40 mph or less and when the height of the casting to be protected meets the proper sizing requirements for the rubber ramps as shown below.

| Dimension | Requirement |
|----------------|---|
| Inside Opening | Outside dimensions of casting + 1 in. (25 mm) |

| | |
|---|--|
| Thickness at inside edge | Height of casting \pm 1/4 in. (6 mm) |
| Thickness at outside edge | 1/4 in. (6 mm) max. |
| Width, measured from inside opening to outside edge | 8 1/2 in. (215 mm) min |

Placement shall be according to the manufacturer's specifications.

Temporary ramps for castings shall remain in place until surfacing operations are undertaken within the immediate area of the structure. Prior to placing the surface course, the temporary ramp shall be removed. Excess material shall be disposed of according to Article 202.03."

FINE AGGREGATE FOR HOT- MIX ASPHALT (HMA) (D-1)

Effective: May 1, 2007

Revised: January 1, 2012

Revise Article 1003.03 (c) of the Standard Specifications to read:

“(c) Gradation. The fine aggregate gradation for all HMA shall be FA1, FA 2, FA 20, FA 21 or FA 22. When Reclaimed Asphalt Pavement (RAP) is incorporated in the HMA design, the use of FA 21 Gradation will not be permitted.

FRICITION AGGREGATE (D-1)

Effective: January 1, 2011
 Revised: April 29, 2016

Revise Article 1004.03(a) of the Standard Specifications to read:

“1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

| Use | Mixture | Aggregates Allowed |
|------------------------------|--|--|
| Class A | Seal or Cover | <u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete |
| HMA Low ESAL | Stabilized Subbase or Shoulders | <u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{1/} Crushed Concrete |
| HMA High ESAL Low ESAL | Binder IL-19.0 or IL-19.0L SMA Binder | <u>Allowed Alone or in Combination</u> ^{5/ 6/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete ^{3/} |

| Use | Mixture | Aggregates Allowed | |
|------------------------------|---|--|---|
| HMA High ESAL Low ESAL | C Surface and Leveling Binder IL-9.5 or IL-9.5L SMA Ndesign 50 Surface | <u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/} | |
| HMA High ESAL | D Surface and Leveling Binder IL-9.5 SMA Ndesign 50 Surface | <u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone (other than Limestone) ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/} | |
| | | <u>Other Combinations Allowed:</u> | |
| | | <i>Up to...</i> | <i>With...</i> |
| | | 25% Limestone | Dolomite |
| | | 50% Limestone | Any Mixture D aggregate other than Dolomite |
| 75% Limestone | Crushed Slag (ACBF) or Crushed Sandstone | | |
| HMA High ESAL | E Surface IL-9.5 SMA Ndesign 80 Surface | <u>Allowed Alone or in Combination</u> ^{5/ 6/} : Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone. | |
| | | <u>Other Combinations Allowed:</u> <i>Up to...</i> | <i>With...</i> |

| Use | Mixture | Aggregates Allowed | |
|------------------|---|--|--|
| | | 50% Dolomite ^{2/} | Any Mixture E aggregate |
| | | 75% Dolomite ^{2/} | Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone |
| | | 75% Crushed Gravel ^{2/} or Crushed Concrete ^{3/} | Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag |
| HMA High ESAL | F Surface IL-9.5 SMA Ndesign 80 Surface | <u>Allowed Alone or in Combination</u> ^{5/ 6/} : | |
| | | Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone. | |
| | | <u>Other Combinations Allowed:</u> | |
| | | <i>Up to...</i> | <i>With...</i> |
| | | 50% Crushed Gravel ^{2/} , Crushed Concrete ^{3/} , or Dolomite ^{2/} | Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone |

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone (limestone) and/or crushed gravel shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
- 3/ Crushed concrete will not be permitted in SMA mixes.
- 4/ Crushed steel slag shall not be used as leveling binder.
- 5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."
- 6/ Combining different types of aggregate will not be permitted in SMA Ndesign 80."

HMA MIXTURE DESIGN REQUIREMENTS (D-1)

Effective: January 1, 2013

Revised: April 1, 2016

1) Design Composition and Volumetric Requirements

Revise the table in Article 406.06(d) of the Standard Specifications to read:

| "MINIMUM COMPACTED LIFT THICKNESS | |
|-----------------------------------|---------------------|
| Mixture Composition | Thickness, in. (mm) |
| IL-4.75 | 3/4 (19) |
| SMA-9.5, IL-9.5, IL-9.5L | 1 1/2 (38) |
| SMA-12.5 | 2 (50) |
| IL-19.0, IL-19.0L | 2 1/4 (57)" |

Revise the table in Article 1004.03(c) of the Standard Specifications to read:

| "Use | Size/Application | Gradation No. |
|-------------------|---|--|
| Class A-1, 2, & 3 | 3/8 in. (10 mm) Seal | CA 16 |
| Class A-1 | 1/2 in. (13 mm) Seal | CA 15 |
| Class A-2 & 3 | Cover | CA 14 |
| HMA High ESAL | IL-19.0 IL-9.5 | CA 11 ^{1/} CA 16, CA 13 ^{3/} |
| HMA Low ESAL | IL-19.0L IL-9.5L Stabilized Subbase or Shoulders | CA 11 ^{1/} CA 16 |
| SMA ^{2/} | 1/2 in. (12.5mm) Binder & Surface IL 9.5 Surface | CA13 ^{3/} , CA14 or CA16 CA16, CA 13 ^{3/} |

1/ CA 16 or CA 13 may be blended with the gradations listed.

2/ The coarse aggregates used shall be capable of being combined with stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation and mineral filler to meet the approved mix design and the mix requirements noted herein.

3/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve.

Revise Article 1004.03(e) of the Supplemental Specifications to read:

"(e) Absorption. For SMA the coarse aggregate shall also have water absorption ≤ 2.0 percent."

Revise the last paragraph of Article 1102.01 (a) (5) of the Standard Specifications to read:

“IL-4.75 and Stone Matrix Asphalt (SMA) mixtures which contain aggregate having absorptions greater than or equal to 2.0 percent, or which contain steel slag sand, shall have minimum surge bin storage plus haul time of 1.5 hours.”

Revise the nomenclature table in Article 1030.01 of the Standard Specifications to read:

| | |
|------------|--|
| “High ESAL | IL-19.0 binder; IL-9.5 surface; IL-4.75; SMA-12.5, SMA-9.5 |
| Low ESAL | IL-19.0L binder; IL-9.5L surface; Stabilized Subbase (HMA) ^{1/} ; HMA Shoulders ^{2/} |

1/ Uses 19.0L binder mix.

2/ Uses 19.0L for lower lifts and 9.5L for surface lift.”

Revise Article 1030.02 of the Standard Specifications and Supplemental Specifications to read:

“**1030.02 Materials.** Materials shall be according to the following.

| Item | Article/Section |
|--|-----------------|
| (a) Coarse Aggregate | 1004.03 |
| (b) Fine Aggregate | 1003.03 |
| (c) RAP Material | 1031 |
| (d) Mineral Filler | 1011 |
| (e) Hydrated Lime | 1012.01 |
| (f) Slaked Quicklime (Note 1) | |
| (g) Performance Graded Asphalt Binder (Note 2) | 1032 |
| (h) Fibers (Note 3) | |
| (i) Warm Mix Asphalt (WMA) Technologies (Note 4) | |

Note 1. Slaked quicklime shall be according to ASTM C 5.

Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay, except where modified herein. The asphalt binder shall be an Elvaloy or SBS PG 76-22 for IL-4.75, except where modified herein. The elastic recovery shall be a minimum of 80.

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. ~~Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that~~

~~produces either Type 1 or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.~~

Note 4. Warm mix additives or foaming processes shall be selected from the current Bureau of Materials and Physical Research Approved List, "Warm Mix Asphalt Technologies".

Revise Article 1030.04(a)(1) of the Standard Specifications and the Supplemental Specifications to read:

"(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

| High ESAL, MIXTURE COMPOSITION (% PASSING) ^{1/} | | | | | | | | | | |
|--|------------|-----|------------------------------|-------------------|-----------------------------|-------------------|------------------|------------------|------------|-----------------|
| Sieve Size | IL-19.0 mm | | SMA ^{4/} IL-12.5 mm | | SMA ^{4/} IL-9.5 mm | | IL-9.5 mm | | IL-4.75 mm | |
| | min | max | min | max | min | max | min | max | min | max |
| 1 1/2 in. (37.5 mm) | | | | | | | | | | |
| 1 in. (25 mm) | | 100 | | | | | | | | |
| 3/4 in. (19 mm) | 90 | 100 | | 100 | | | | | | |
| 1/2 in. (12.5 mm) | 75 | 89 | 80 | 100 | | 100 | | 100 | | 100 |
| 3/8 in. (9.5 mm) | | | | 65 | 90 | 100 | 90 | 100 | | 100 |
| #4 (4.75 mm) | 40 | 60 | 20 | 30 | 36 | 50 | 34 | 69 | 90 | 100 |
| #8 (2.36 mm) | 20 | 42 | 16 | 24 ^{5/} | 16 | 32 ^{5/} | 34 ^{6/} | 52 ^{2/} | 70 | 90 |
| #16 (1.18 mm) | 15 | 30 | | | | | 10 | 32 | 50 | 65 |
| #30 (600 μm) | | | 12 | 16 | 12 | 18 | | | | |
| #50 (300 μm) | 6 | 15 | | | | | 4 | 15 | 15 | 30 |
| #100 (150 μm) | 4 | 9 | | | | | 3 | 10 | 10 | 18 |
| #200 (75 μm) | 3 | 6 | 7.0 | 9.0 ^{3/} | 7.5 | 9.5 ^{3/} | 4 | 6 | 7 | 9 ^{3/} |
| Ratio Dust/Asphalt Binder | | 1.0 | | 1.5 | | 1.5 | | 1.0 | | 1.0 |

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.
- 3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.
- 4/ The maximum percent passing the #635 (20 μm) sieve shall be ≤ 3 percent.

- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.
- 6/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.

Revise Article 1030.04(b)(1) of the Standard Specifications to read:

“(1) High ESAL Mixtures. The target value for the air voids of the HMA shall be 4.0 percent and for IL-4.75 it shall be 3.5 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix, and shall conform to the following requirements.

| VOLUMETRIC REQUIREMENTS High ESAL | | | | |
|--------------------------------------|---|--------|-----------------------|---|
| Ndesign | Voids in the Mineral Aggregate (VMA), % minimum | | | Voids Filled with Asphalt Binder (VFA), % |
| | IL-19.0 | IL-9.5 | IL-4.75 ^{1/} | |
| 50 | 13.5 | 15.0 | 18.5 | 65 – 78 ^{2/} |
| 70 | | | | |
| 90 | | | | |

1/ Maximum Draindown for IL-4.75 shall be 0.3 percent

2/ VFA for IL-4.75 shall be 72-85 percent”

Replace Article 1030.04(b)(3) of the Standard Specifications with the following:

“(3) SMA Mixtures.

| Volumetric Requirements SMA ^{1/} | | | |
|--|---------------------------|--|------------------------------------|
| Ndesign | Design Air Voids Target % | Voids in the Mineral Aggregate (VMA), % min. | Voids Filled with Asphalt (VFA), % |
| 80 ^{4/} | 3.5 | 17.0 ^{2/} | 75 - 83 |
| | | 16.0 ^{3/} | |

1/ Maximum draindown shall be 0.3 percent. The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30 °F.

2/ Applies when specific gravity of coarse aggregate is ≥ 2.760 .

3/ Applies when specific gravity of coarse aggregate is < 2.760.

4/ Blending of different types of aggregate will not be permitted.

For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone.

Add to the end of Article 1030.05 (d) (2) a. of the Standard Specifications:

“During production, the Contractor shall test SMA mixtures for draindown according to AASHTO T305 at a frequency of 1 per day of production.”

Delete last sentence of the second paragraph of Article 1102.01(a) (4) b. 2.

Add to the end of Article 1102.01 (a) (4) b. 2.:

“As an option, collected dust (baghouse) may be used in lieu of manufactured mineral filler according to the following:

(a.) Sufficient collected dust (baghouse) is available for production of the SMA mix for the entire project.

(b.) A mix design was prepared based on collected dust (baghouse).

2) Design Verification and Production

Revise Article 1030.04 (d) of the Standard Specifications to read:

“(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (IL mod AASHTO T-324) and the Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department’s verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

All new and renewal mix designs will be required to be tested, prior to submittal for Department verification and shall meet the following requirements:

(1)Hamburg Wheel Test criteria. The maximum allowable rut depth shall be 0.5 in. (12.5 mm). The minimum number of wheel passes at the 0.5 in. (12.5 mm) rut depth criteria shall be based on the high temperature binder grade of the mix as specified in the mix requirements table of the plans.

Illinois Modified AASHTO T 324 Requirements ^{1/}

| Asphalt Binder Grade | # Repetitions | Max Rut Depth (mm) |
|-----------------------|---------------|--------------------|
| PG 70 -XX (or higher) | 20,000 | 12.5 |
| PG 64 -XX (or lower) | 10,000 | 12.5 |

- 1/ When produced at temperatures of 275 ± 5 °F (135 ± 3 °C) or less, loose Warm Mix Asphalt shall be oven aged at 270 ± 5 °F (132 ± 3 °C) for two hours prior to gyratory compaction of Hamburg Wheel specimens.

Note: For SMA Designs (N-80) the maximum rut depth is 6.0 mm at 20,000 repetitions.
For IL 4.75mm Designs (N-50) the maximum rut depth is 9.0mm at 15,000 repetitions.

- (2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 60 psi (415 kPa) for non-polymer modified performance graded (PG) asphalt binder and 80 psi (550 kPa) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa).”

Production Testing. Revise first paragraph of Article 1030.06(a) of the Standard Specifications to read:

“(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip, except for SMA mixtures it will be 400 ton (363 metric ton), will be required at the beginning of HMA production for each mixture with a quantity of 3000 tons (2750 metric tons) or more according to the Manual of Test Procedures for Materials “Hot Mix Asphalt Test Strip Procedures”.

Add the following after the sixth paragraph in Article 1030.06 (a) of the Standard Specifications:

“The Hamburg Wheel test shall also be conducted on all HMA mixtures from a sample taken within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day’s production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.

If the mixture fails to meet the Hamburg Wheel criteria, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria”

Method of Measurement:

Add the following after the fourth paragraph of Article 406.13 (b):

“The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design’s G_{mb} .”

Basis of Payment.

Replace the fourth paragraph of Article 406.14 of the Standard Specifications with the following:

“Stone matrix asphalt will be paid for at the contract unit price per ton (metric ton) for POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, of the mixture composition and N_{design} specified; and POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, of the mixture composition and N_{design} specified.”

COARSE AGGREGATE FOR BACKFILL, TRENCH BACKFILL AND BEDDING (D-1)

Effective: November 1, 2011

Revised: November 1, 2013

This work shall be according to Section 1004.05 of the Standard Specifications except for the following:

Reclaimed Asphalt Pavement (RAP) maybe blended with gravel, crushed gravel, crushed stone crushed concrete, crushed slag, chats, crushed sand stone or wet bottom boiler slag. The RAP used shall be according to the current Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications". The RAP shall be uniformly graded and shall pass the 1.0 in. (25 mm) screen. When RAP is blended with any of the coarse aggregate listed above, the blending shall be done mechanically with calibrated feeders. The feeders shall have an accuracy of ± 2.0 percent of the actual quantity of material delivered. The final blended product shall not contain more than 40 percent by weight RAP.

The coarse aggregate listed above shall meet CA 6 and CA 10 gradations prior to being blended with the processed and uniformly graded RAP. Gradation deleterious count shall not exceed 10% of total RAP and 5% of other by total weight.

TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR

Effective: September 1, 1995

Revised: January 1, 2007

When traffic is to be directed over a detour route, the Contractor shall furnish, erect, maintain and remove all applicable traffic control devices along the detour route according to the details shown in the plans.

Basis of Payment. This work will be paid for at the contract unit price each for TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.

AGGREGATE SUBGRADE IMPROVEMENT (D-1)

Effective: February 22, 2012

Revised: April 1, 2016

Add the following Section to the Standard Specifications:

“SECTION 303. AGGREGATE SUBGRADE IMPROVEMENT

303.01 Description. This work shall consist of constructing an aggregate subgrade improvement.

303.02 Materials. Materials shall be according to the following.

| Item | Article/Section |
|---|-----------------|
| (a) Coarse Aggregate | 1004.07 |
| (b) Reclaimed Asphalt Pavement (RAP) (Notes 1, 2 and 3) | 1031 |

Note 1. Crushed RAP, from either full depth or single lift removal, may be mechanically blended with aggregate gradation CS 01 but shall not exceed 40 percent by weight of the total product. The top size of the Coarse RAP shall be less than 4 in. (100 mm) and well graded.

Note 2. RAP having 100 percent passing the 1 1/2 in (37.5 mm) sieve and being well graded, may be used as capping aggregate in the top 3 in. (75 mm) when aggregate gradation CS 01 is used in lower lifts. When RAP is blended with any of the coarse aggregates, the blending shall be done with mechanically calibrated feeders. The final product shall not contain more than 40 percent by weight of RAP.

Note 3. The RAP used for aggregate subgrade improvement shall be according to the current Bureau of Materials and Physical Research Policy Memorandum, “Reclaimed Asphalt Pavement (RAP) for Aggregate Applications”.

303.03 Equipment. The vibratory machine shall be according to Article 1101.01, or as approved by the Engineer. The calibration for the mechanical feeders shall have an accuracy of ± 2.0 percent of the actual quantity of material delivered.

303.04 Soil Preparation. The stability of the soil shall be according to the Department’s Subgrade Stability Manual for the aggregate thickness specified.

303.05 Placing Aggregate. The maximum nominal lift thickness of aggregate gradation CS 01 shall be 24 in. (600 mm).

303.06 Capping Aggregate. The top surface of the aggregate subgrade shall consist of a minimum 3 in. (75 mm) of aggregate gradations CA 06 or CA 10. When Reclaimed Asphalt Pavement (RAP) is used, it shall be crushed and screened where 100 percent is passing the 1 1/2 in. (37.5 mm) sieve and being well graded. RAP that has been fractionated to size will not be permitted for use in capping. Capping aggregate will not be required when the aggregate subgrade improvement is used as a cubic yard pay item for undercut applications. When RAP is blended with any of the coarse aggregates, the blending shall be done with mechanically calibrated feeders.

303.07 Compaction. All aggregate lifts shall be compacted to the satisfaction of the Engineer. If the moisture content of the material is such that compaction cannot be obtained, sufficient water shall be added so that satisfactory compaction can be obtained.

303.08 Finishing and Maintenance of Aggregate Subgrade Improvement. The aggregate subgrade improvement shall be finished to the lines, grades, and cross sections shown on the plans, or as directed by the Engineer. The aggregate subgrade improvement shall be maintained in a smooth and compacted condition.

303.09 Method of Measurement. This work will be measured for payment according to Article 311.08.

303.10 Basis of Payment. This work will be paid for at the contract unit price per cubic yard (cubic meter) for AGGREGATE SUBGRADE IMPROVEMENT or at the contract unit price per square yard (square meter) for AGGREGATE SUBGRADE IMPROVEMENT, of the thickness specified.

Add the following to Section 1004 of the Standard Specifications:

“1004.07 Coarse Aggregate for Aggregate Subgrade Improvement. The aggregate shall be according to Article 1004.01 and the following.

- (a) Description. The coarse aggregate shall be crushed gravel, crushed stone, or crushed concrete. The top 12 inches of the aggregate subgrade improvement shall be 3 inches of capping material and 9 inches of crushed gravel, crushed stone or crushed concrete. In applications where greater than 36 inches of subgrade material is required, rounded gravel, meeting the CS01 gradation, may be used beginning at a depth of 12 inches below the bottom of pavement.
- (b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials. Non-mechanically blended RAP may be allowed up to a maximum of 5.0 percent.
- (c) Gradation.
 - (1) The coarse aggregate gradation for total subgrade thicknesses of 12 in. (300 mm) or greater shall be CS 01.

| Grad No. | COARSE AGGREGATE SUBGRADE GRADATIONS | | | | |
|----------|--------------------------------------|--------|---------|---------|---------|
| | Sieve Size and Percent Passing | | | | |
| | 8" | 6" | 4" | 2" | #4 |
| CS 01 | 100 | 97 ± 3 | 90 ± 10 | 45 ± 25 | 20 ± 20 |

| COARSE AGGREGATE SUBGRADE GRADATIONS (Metric) | | | | | |
|---|--------------------------------|--------|---------|---------|---------|
| Grad No. | Sieve Size and Percent Passing | | | | |
| | 200 mm | 150 mm | 100 mm | 50 mm | 4.75 mm |
| CS 01 | 100 | 97 ± 3 | 90 ± 10 | 45 ± 25 | 20 ± 20 |

(2) The 3 in. (75 mm) capping aggregate shall be gradation CA 6 or CA 10.

BDE SPECIAL PROVISIONS
For the April 28 and June 16, 2017 Lettings

The following special provisions indicated by an "x" are applicable to this contract and will be included by the Project Development and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

| <u>File Name</u> | <u>#</u> | <u>Special Provision Title</u> | <u>Effective</u> | <u>Revised</u> |
|------------------|----------|--|------------------|----------------|
| 80099 | 1 | Accessible Pedestrian Signals (APS) | April 1, 2003 | Jan. 1, 2014 |
| * 80382 | 2 | Adjusting Frames and Grates | April 1, 2017 | |
| 80274 | 3 | Aggregate Subgrade Improvement | April 1, 2012 | April 1, 2016 |
| 80192 | 4 | Automated Flagger Assistance Device | Jan. 1, 2008 | |
| 80173 | 5 | Bituminous Materials Cost Adjustments | Nov. 2, 2006 | July 1, 2015 |
| 80241 | 6 | Bridge Demolition Debris | July 1, 2009 | |
| 5026I | 7 | Building Removal-Case I (Non-Friable and Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 5048I | 8 | Building Removal-Case II (Non-Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 5049I | 9 | Building Removal-Case III (Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 5053I | 10 | Building Removal-Case IV (No Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 80366 | 11 | Butt Joints | July 1, 2016 | |
| 80198 | 12 | Completion Date (via calendar days) | April 1, 2008 | |
| 80199 | 13 | Completion Date (via calendar days) Plus Working Days | April 1, 2008 | |
| 80293 | 14 | Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet | April 1, 2012 | July 1, 2016 |
| 80311 | 15 | Concrete End Sections for Pipe Culverts | Jan. 1, 2013 | April 1, 2016 |
| 80277 | 16 | Concrete Mix Design – Department Provided | Jan. 1, 2012 | April 1, 2016 |
| 80261 | 17 | Construction Air Quality – Diesel Retrofit | June 1, 2010 | Nov. 1, 2014 |
| 80029 | 18 | Disadvantaged Business Enterprise Participation | Sept. 1, 2000 | July 2, 2016 |
| 80378 | 19 | Dowel Bar Inserter | Jan. 1, 2017 | |
| 80229 | 20 | Fuel Cost Adjustment | April 1, 2009 | July 1, 2015 |
| 80304 | 21 | Grooving for Recessed Pavement Markings | Nov. 1, 2012 | Aug. 1, 2014 |
| 80246 | 22 | Hot-Mix Asphalt – Density Testing of Longitudinal Joints | Jan. 1, 2010 | April 1, 2016 |
| * 80347 | 23 | Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling | Nov. 1, 2014 | April 1, 2017 |
| * 80383 | 24 | Hot-Mix Asphalt – Quality Control for Performance | April 1, 2017 | |
| 80376 | 25 | Hot-Mix Asphalt – Tack Coat | Nov. 1, 2016 | |
| 80367 | 26 | Light Poles | July 1, 2016 | |
| 80368 | 27 | Light Tower | July 1, 2016 | |
| 80336 | 28 | Longitudinal Joint and Crack Patching | April 1, 2014 | April 1, 2016 |
| 80369 | 29 | Mast Arm Assembly and Pole | July 1, 2016 | |
| 80045 | 30 | Material Transfer Device | June 15, 1999 | Aug. 1, 2014 |
| 80165 | 31 | Moisture Cured Urethane Paint System | Nov. 1, 2006 | Jan. 1, 2010 |
| 80349 | 32 | Pavement Marking Blackout Tape | Nov. 1, 2014 | April 1, 2016 |
| 80371 | 33 | Pavement Marking Removal | July 1, 2016 | |
| * 80377 | 34 | Portable Changeable Message Signs | Nov. 1, 2016 | April 1, 2017 |
| 80359 | 35 | Portland Cement Concrete Bridge Deck Curing | April 1, 2015 | Jan. 1, 2017 |
| 80338 | 36 | Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching | April 1, 2014 | April 1, 2016 |
| 80300 | 37 | Preformed Plastic Pavement Marking Type D - Inlaid | April 1, 2012 | April 1, 2016 |
| 80328 | 38 | Progress Payments | Nov. 2, 2013 | |
| 3426I | 39 | Railroad Protective Liability Insurance | Dec. 1, 1986 | Jan. 1, 2006 |
| 80157 | 40 | Railroad Protective Liability Insurance (5 and 10) | Jan. 1, 2006 | |
| 80306 | 41 | Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS) | Nov. 1, 2012 | April 1, 2016 |
| 80340 | 42 | Speed Display Trailer | April 2, 2014 | Jan. 1, 2017 |
| 80127 | 43 | Steel Cost Adjustment | April 2, 2004 | July 1, 2015 |

| <u>File Name</u> | <u>#</u> | <u>Special Provision Title</u> | <u>Effective</u> | <u>Revised</u> |
|------------------|----------|---|------------------|----------------|
| 80379 | 44 | Steel Plate Beam Guardrail | Jan. 1, 2017 | |
| 80317 | 45 | Surface Testing of Hot-Mix Asphalt Overlays | Jan. 1, 2013 | April 1, 2016 |
| * 80298 | 46 | Temporary Pavement Marking (NOTE: This special provision was previously named "Pavement Marking Tape Type IV".) | April 1, 2012 | April 1, 2017 |
| 20338 | 47 | Training Special Provisions | Oct. 15, 1975 | |
| 80318 | 48 | Traversable Pipe Grate | Jan. 1, 2013 | April 1, 2014 |
| 80381 | 49 | Traffic Barrier Terminal, Type 1 Special | Jan. 1, 2017 | |
| 80380 | 50 | Tubular Markers | Jan. 1, 2017 | |
| 80288 | 51 | Warm Mix Asphalt | Jan. 1, 2012 | April 1, 2016 |
| 80302 | 52 | Weekly DBE Trucking Reports | June 2, 2012 | April 2, 2015 |
| 80289 | 53 | Wet Reflective Thermoplastic Pavement Marking | Jan. 1, 2012 | |
| 80071 | 54 | Working Days | Jan. 1, 2002 | |

The following special provisions are in the 2017 Supplemental Specifications and Recurring Special Provisions.

| <u>File Name</u> | <u>Special Provision Title</u> | <u>New Location</u> | <u>Effective</u> | <u>Revised</u> |
|------------------|---|---|------------------|----------------|
| 80360 | Coarse Aggregate Quality | Article 1004.01 | July 1, 2015 | |
| 80363 | Engineer's Field Office | Article 670.07 | April 1, 2016 | |
| 80358 | Equal Employment Opportunity | Recurring CS #1 and #5 | April 1, 2015 | |
| 80364 | Errata for the 2016 Standard Specifications | Supplemental | April 1, 2016 | |
| 80342 | Mechanical Side Tie Bar Inserter | Articles 420.03, 420.05, and 1103.19 | Aug. 1, 2014 | April 1, 2016 |
| 80370 | Mechanical Splicers | Article 1006.10 | July 1, 2016 | |
| 80361 | Overhead Sign Structures Certification of Metal Fabricator | Article 106.08 | Nov. 1, 2015 | April 1, 2016 |
| 80365 | Pedestrian Push-Button | Article 888.03 | April 1, 2016 | |
| 80353 | Portland Cement Concrete Inlay or Overlay | Recurring CS #34 | Jan. 1, 2015 | April 1, 2016 |
| 80372 | Preventive Maintenance – Bituminous Surface Treatment (A-1) | Recurring CS #28 | Jan. 1, 2009 | July 1, 2016 |
| 80373 | Preventive Maintenance – Cape Seal | Recurring CS #29 | Jan. 1, 2009 | July 1, 2016 |
| 80374 | Preventive Maintenance – Micro-Surfacing | Recurring CS #30 | Jan. 1, 2009 | July 1, 2016 |
| 80375 | Preventive Maintenance – Slurry Seal | Recurring CS #31 | Jan. 1, 2009 | July 1, 2016 |
| 80362 | Steel Slag in Trench Backfill | Articles 1003.01 and 1003.04 | Jan. 1, 2016 | |
| 80355 | Temporary Concrete Barrier | Articles 704.02, 704.04, 704.05, and 704.06 | Jan. 1, 2015 | July 1, 2015 |

The following special provisions require additional information from the designer. The additional information needs to be included in a separate document attached to this check sheet. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

- Bridge Demolition Debris
- Building Removal - Case I
- Building Removal – Case II
- Building Removal - Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days



Illinois Department of Transportation

Memorandum

To: All Regional Engineers
From: Omer M. Osman, P.E. *Omer M. Osman 7/11/14*
Subject: Special Provision for Construction Air Quality – Diesel Retrofit
Date: July 25, 2014

This special provision was developed by the Bureau of Design and Environment and the Bureau of Construction to reduce construction air emissions from older diesel equipment. The cover memo has been revised to change Baldwin Township to Baldwin Precinct in Randolph County.

This special provision should be inserted in all projects within the following counties, townships and precinct; Cook, DuPage, Kane, Lake, McHenry, Will, Jersey, Madison, Monroe, St. Clair, Aux Sable and Goose Lake Township in Grundy County, Oswego Township in Kendall County, and Baldwin Precinct in Randolph County.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the November 7, 2014 and subsequent lettings. The Project Development and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory July 25, 2014.

80261m

CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010

Revised: November 1, 2014

The reduction of emissions of particulate matter (PM) for off-road equipment shall be accomplished by installing retrofit emission control devices. The term “equipment” refers to diesel fuel powered devices rated at 50 hp and above, to be used on the jobsite in excess of seven calendar days over the course of the construction period on the jobsite (including rental equipment).

Contractor and subcontractor diesel powered off-road equipment assigned to the contract shall be retrofitted using the phased in approach shown below. Equipment that is of a model year older than the year given for that equipment’s respective horsepower range shall be retrofitted:

| Effective Dates | Horsepower Range | Model Year |
|----------------------------|------------------|------------|
| June 1, 2010 ^{1/} | 600-749 | 2002 |
| | 750 and up | 2006 |
| June 1, 2011 ^{2/} | 100-299 | 2003 |
| | 300-599 | 2001 |
| | 600-749 | 2002 |
| | 750 and up | 2006 |
| June 1, 2012 ^{2/} | 50-99 | 2004 |
| | 100-299 | 2003 |
| | 300-599 | 2001 |
| | 600-749 | 2002 |
| | 750 and up | 2006 |

1/ Effective dates apply to Contractor diesel powered off-road equipment assigned to the contract.

2/ Effective dates apply to Contractor and subcontractor diesel powered off-road equipment assigned to the contract.

The retrofit emission control devices shall achieve a minimum PM emission reduction of 50 percent and shall be:

- a) Included on the U.S. Environmental Protection Agency (USEPA) *Verified Retrofit Technology List* (<http://www.epa.gov/cleandiesel/verification/verif-list.htm>), or verified by the California Air Resources Board (CARB) (<http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm>); or
- b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the project, and if the Contractor has obtained a performance certification from the retrofit

device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

Note: Large cranes (Crawler mounted cranes) which are responsible for critical lift operations are exempt from installing retrofit emission control devices if such devices adversely affect equipment operation.

Diesel powered off-road equipment with engine ratings of 50 hp and above, which are unable to be retrofitted with verified emission control devices or if performance certifications are not available which will achieve a minimum 50 percent PM reduction, may be granted a waiver by the Department if documentation is provided showing good faith efforts were made by the Contractor to retrofit the equipment.

Construction shall not proceed until the Contractor submits a certified list of the diesel powered off-road equipment that will be used, and as necessary, retrofitted with emission control devices. The list(s) shall include (1) the equipment number, type, make, Contractor/rental company name; and (2) the emission control devices make, model, USEPA or CARB verification number, or performance certification from the retrofit device manufacturer. Equipment reported as fitted with emissions control devices shall be made available to the Engineer for visual inspection of the device installation, prior to being used on the jobsite.

The Contractor shall submit an updated list of retrofitted off-road construction equipment as retrofitted equipment changes or comes on to the jobsite. The addition or deletion of any diesel powered equipment shall be included on the updated list.

If any diesel powered off-road equipment is found to be in non-compliance with any portion of this special provision, the Engineer will issue the Contractor a diesel retrofit deficiency deduction.

Any costs associated with retrofitting any diesel powered off-road equipment with emission control devices shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall not be grounds for a claim.

Diesel Retrofit Deficiency Deduction

When the Engineer determines that a diesel retrofit deficiency exists, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

The deficiency will be based on lack of diesel retrofit emissions control.

If a Contractor accumulates three diesel retrofit deficiency deductions for the same piece of equipment in a contract period, the Contractor will be shutdown until the deficiency is corrected.

Such a shutdown will not be grounds for any extension of the contract time, waiver of penalties, or be grounds for any claim.

80261



Illinois Department of Transportation

Memorandum

To: Regional Engineers
From: Maureen M. Addis 
Subject: Special Provision for Temporary Pavement Marking
Date: January 13, 2017

This special provision was developed by the Bureau of Materials and Physical Research and the Bureau of Operations to create a statewide specification for a temporary pavement marking tape with improved retroreflectivity during wet conditions. This special provision has been revised to pay for the removal of temporary pavement markings separately from permanent pavement markings.

Note: The title of this special provision has been revised from Pavement Marking Tape Type IV to Temporary Pavement Marking.

This special provision should be inserted into contracts where work zone pavement markings are required.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 28, 2017 and subsequent lettings. The Project Development and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 13, 2017

80298m

TEMPORARY PAVEMENT MARKING (BDE)

Effective: April 1, 2012

Revised: April 1, 2017

Revise Article 703.02 of the Standard Specifications to read:

“703.02 Materials. Materials shall be according to the following.

- (a) Pavement Marking Tape, Type I and Type III 1095.06
- (b) Paint Pavement Markings 1095.02
- (c) Pavement Marking Tape, Type IV 1095.11”

Revise the second paragraph of Article 703.05 of the Standard Specifications to read:

“Type I marking tape or paint shall be used at the option of the Contractor, except paint shall not be applied to the final wearing surface unless authorized by the Engineer for late season applications where tape adhesion would be a problem. Type III or Type IV marking tape shall be used on the final wearing surface when the temporary pavement marking will conflict with the permanent pavement marking such as on tapers, crossovers and lane shifts.”

Revise Article 703.07 of the Standard Specifications to read:

“703.07 Basis of Payment. This work will be paid for as follows.

- a) Short Term Pavement Marking. Short term pavement marking will be paid for at the contract unit price per foot (meter) for SHORT TERM PAVEMENT MARKING. Removal of short term pavement markings will be paid for at the contract unit price per square foot (square meter) for SHORT TERM PAVEMENT MARKING REMOVAL.
- b) Temporary Pavement Marking. Where the Contractor has the option of material type, temporary pavement marking will be paid for at the contract unit price per foot (meter) for TEMPORARY PAVEMENT MARKING of the line width specified, and at the contract unit price per square foot (square meter) for TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS.

Where the Department specifies the use of pavement marking tape, the Type III or Type IV temporary pavement marking will be paid for at the contract unit price per foot (meter) for PAVEMENT MARKING TAPE, TYPE III or PAVEMENT MARKING TAPE, TYPE IV of the line width specified and at the contract unit price per square feet (square meter) for PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS or PAVEMENT MARKING TAPE, TYPE IV – LETTERS AND SYMBOLS.

Removal of temporary pavement markings will be paid for at the contract unit price per square foot (square meter) for TEMPORARY PAVEMENT MARKING REMOVAL.

When temporary pavement marking is shown on the Standard, the cost of the temporary pavement marking and its removal will be included in the cost of the Standard.”

Add the following to Section 1095 of the Standard Specifications:

“1095.11 Pavement Marking Tape, Type IV. The temporary, preformed, patterned markings shall consist of a white or yellow tape with wet retroreflective media incorporated to provide immediate and continuing retroreflection during both wet and dry conditions. The tape shall be manufactured without the use of heavy metals including lead chromate pigments or other similar, lead-containing chemicals.

The white and yellow Type IV marking tape shall meet the Type III requirements of Article 1095.06 and the following.

- (a) Composition. The retroreflective pliant polymer pavement markings shall consist of a mixture of high-quality polymeric materials, pigments and glass beads distributed throughout its base cross-sectional area, with a layer of wet retroreflective media bonded to a durable polyurethane topcoat surface. The patterned surface shall have approximately 40% ± 10% of the surface area raised and presenting a near vertical face to traffic from any direction. The channels between the raised areas shall be substantially free of exposed beads or particles.
- (b) Retroreflectance. The white and yellow markings shall meet the following for initial dry and wet retroreflectance.
 - (1) Dry Retroreflectance. Dry retroreflectance shall be measured under dry conditions according to ASTM D 4061 and meet the values described in Article 1095.06 for Type III tape.
 - (2) Wet Retroreflectance. Wet retroreflectance shall be measured under wet conditions according to ASTM E 2177 and meet the values shown in the following table.

Wet Retroreflectance, Initial R_L

| Color | R_L 1.05/88.76 |
|--------------|---------------------------------|
| White | 300 |
| Yellow | 200 |

- (c) Color. The material shall meet the following requirements for daylight reflectance and color, when tested, using a color spectrophotometer with 45 degrees circumferential/zero degree geometry, illuminant D65, and a two degree observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm.

| Color | Daylight Reflectance %Y |
|--------------|--------------------------------|
| White | 65 minimum |
| *Yellow | 36-59 |

*Shall match Federal 595 Color No. 33538 and the chromaticity limits as follows.

| | | | | |
|---|-------|-------|-------|-------|
| x | 0.490 | 0.475 | 0.485 | 0.530 |
| y | 0.470 | 0.438 | 0.425 | 0.456 |

- (d) Skid Resistance. The surface of the markings shall provide an average minimum skid resistance of 50 BPN when tested according to ASTM E 303.
- (e) Sampling, Testing, Acceptance, and Certification. Prior to approval and use of the wet reflective, temporary, removable pavement marking tape, the manufacturer shall submit a notarized certification from an independent laboratory, together with the results of all tests, stating that the material meets the requirements as set forth herein. The certification test report shall state the lot tested, manufacturer's name, and date of manufacture.

After approval by the Department, samples and certification by the manufacturer shall be submitted for each batch used. The manufacturer shall submit a certification stating that the material meets the requirements as set forth herein and is essentially identical to the material sent for qualification. The certification shall state the lot tested, manufacturer's name, and date of manufacture.

All costs of testing (other than tests conducted by the Department) shall be borne by the manufacturer."



Illinois Department of Transportation

Memorandum

To: All Regional Engineers
From: Maureen M. Addis *Maureen M. Addis*
Subject: Special Provision for Pavement Marking Removal
Date: April 15, 2016

This special provision was developed by the Bureau of Operations to eliminate shot blasting as a pavement marking removal option and creates separate grinding and water blasting pavement marking removal pay items.

Check Sheet #27 Pavement Marking Removal should no longer be used with the creation of separate pay items for grinding and water blasting.

This special provision should be inserted into contracts requiring pavement marking removal.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the July 29, 2016 and subsequent lettings. The Project Development and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory April 15, 2016.

80371m

PAVEMENT MARKING REMOVAL (BDE)

Effective: July 1, 2016

Revise Article 783.02 of the Standard Specifications to read:

“783.02 Equipment. Equipment shall be according to the following.

| Item | Article/Section |
|--|-----------------|
| (a) Grinders (Note 1) | |
| (b) Water Blaster with Vacuum Recovery | 1101.12 |

Note 1. Grinding equipment shall be approved by the Engineer.”

Revise the first paragraph of Article 783.03 of the Standard Specifications to read:

“783.03 Removal of Conflicting Markings. Existing pavement markings that conflict with revised traffic patterns shall be removed. If darkness or inclement weather prohibits the removal operations, such operations shall be resumed the next morning or when weather permits. In the event of removal equipment failure, such equipment shall be repaired, replaced, or leased so removal operations can be resumed within 24 hours.”

Revise the first and second sentences of the first paragraph of Article 783.03(a) of the Standard Specifications to read:

“The existing pavement markings shall be removed by the method specified and in a manner that does not materially damage the surface or texture of the pavement or surfacing. Small particles of tightly adhering existing markings may remain in place, if in the opinion of the Engineer, complete removal of the small particles will result in pavement surface damage.”

Revise the first paragraph of Article 783.04 of the Standard Specifications to read:

“783.04 Cleaning. The roadway surface shall be cleaned of debris or any other deleterious material by the use of compressed air or water blast.”

Revise the first paragraph of Article 783.06 of the Standard Specifications to read:

“783.06 Basis of Payment. This work will be paid for at the contract unit price per each for RAISED REFLECTIVE PAVEMENT MARKER REMOVAL, or at the contract unit price per square foot (square meter) for PAVEMENT MARKING REMOVAL – GRINDING and/or PAVEMENT MARKING REMOVAL – WATER BLASTING.”

Delete Article 1101.13 from the Standard Specifications.



Illinois Department of Transportation

Memorandum

To: Regional Engineers
From: Maureen M. Addis *MA*
Subject: Special Provision for Portable Changeable Message Signs
Date: January 13, 2017

This special provision was developed by the Bureau of Safety Programs and Engineering to reduce the minimum height of a portable changeable message sign (PCMS) in rural areas which is consistent with the MUTCD. This special provision has been revised by the Bureau of Construction to address recommendations from the IDOT/Industry Joint Cooperative Committee to pay for PCMS by the calendar day instead of calendar month.

This special provision should be inserted into contracts utilizing portable changeable message signs.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 28, 2017 and subsequent lettings. The Project Development and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 13, 2017.

80377m

PORTABLE CHANGEABLE MESSAGE SIGNS (BDE)

Effective: November 1, 2016

Revised: April 1, 2017

Revise the second paragraph of Article 701.20(h) of the Standard Specifications to read:

“For all other portable changeable message signs, this work will be paid for at the contract unit price per calendar day for each sign as CHANGEABLE MESSAGE SIGN.”

Revise this second sentence of the first paragraph of Article 1106.02(i) of the Standard Specifications to read:

“The message panel shall be a minimum of 7 ft (2.1 m) above the edge of pavement in urban areas and a minimum of 5 ft (1.5 m) above the edge of pavement in rural areas, present a level appearance, and be capable of displaying up to eight characters in each of three lines at a time.”

80377

Stormwater Pollution Prevention Plan (SWPPP)

for:

City of Wheaton
2017 West Street Water Main Replacement Project
Wheaton, IL 60187
Refer to attached Location Map

Operator(s):

City of Wheaton
303 W. Wesley Street
Wheaton, IL 60187
Engineering Department Phone: (630) 260-2065
Fax: (630) 260-2195

SWPPP Contact(s):

City of Wheaton Engineering Department
Joseph E. Tebrugge
303 W. Wesley Street
Wheaton, IL 60187
Phone: (630) 260-2868
Email: jtebrugge@wheaton.il.us

SWPPP Preparation Date:

05 / 02 / 2017

Estimated Project Dates:

Project Start Date: 06/26/2017
Project Completion Date: 09/15/2017

Section 1: Site Description

A. Project Location

The project is located entirely along West Street between IL Route 38 (Roosevelt Road) and Childs/Illinois Street in the City of Wheaton as shown on the attached map.

B. Project Construction Activity

The project consists of 1,462' of water main replacement, intermittent sanitary sewer and storm sewer replacement, curb and gutter repair and/or replacement, sidewalk repair and/or replacement, driveway patching, pavement patching, pavement marking, landscaping, and all collateral work necessary to complete the project as shown on the plans.

C. Description of Sequence of Major Activities (per street)

- a. Install erosion control / Best Management Practices as needed for the type of construction called for in the project plans.
- b. Install all underground utilities as called for in the project plans.
No soil stockpiles are allowed to remain in the Right of Way
- c. Temporary erosion control shall be initiated as soon as practicable in portions of the site where construction activities have temporarily ceased. Temporary erosion control shall be completed by no more than 7 days after the construction activity in that portion of the site has temporarily ceased unless construction will reoccur within a period of 14 calendar days after temporarily ceased.
- d. Replace disturbed curb and gutter.
- e. Replace disturbed sidewalk.
- f. Perform pavement patching.
- g. Landscaping / Permanent Seeding shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
- h. Install pavement marking

D. Soils

Soils

Based on the NRCS-USDA Soil Survey of DuPage County, the following soils are present within the project area:

854B - Markham-Ashkum-Beecher complex, 1 to 6 percent slopes: A moderately well to poorly drained complex with moderate susceptibility to water erosion and slight susceptibility to wind erosion.

805B - Orthents, clayey, undulating: A moderately well drained soil with moderate susceptibility to water erosion and slight susceptibility to wind erosion.

E. Drainage Pattern / Receiving Waters

The project area consists entirely of developed public right of way. The drainage pattern for the project area is urban with enclosed underground storm sewers to Spring Brook. The project will not change any of the existing drainage patterns.

F. Construction Site Estimates

The total combined area of the project street Right of Way is 2.06 acres.

The total combined area of exposed earth by the project is 0.17 acres with the largest contiguous area of exposed earth by the project being 0.17 acres.

The percent impervious and runoff coefficient for the project area will be the same before and after the project as no impervious area is to be added to this rehabilitation project.

G. Site Features and Sensitive Areas to be Protected

- Parkway trees are to be preserved where practicable.
- Any floodplain in the project area shall have no material stockpiles, no equipment storage, no material storage, and no fill placed within the limits of the current FEMA mapped floodplain.

H. Potential Sources of Pollution

- Sediment (excavation, vehicular tracking, landscaping operations)
- Concrete Truck Waste
- Concrete Curing Compounds
- Solid Waste / Debris
- Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids)
- Concrete
- Waste water from cleaning construction equipment
- Antifreeze / coolants
- Sanitary stations / port-a-potty's
- Fertilizers

Section 2: Erosion and Sediment Control BMPs

A. Stabilization Practices

Temporary Stabilization – Areas where earth has been exposed within the project limits where construction will cease for more than 7 days shall be stabilized using Erosion Control Blanket in substantial conformance with the Illinois Urban Manual. Where construction activity will resume in such an area within 14 days from when construction temporarily ceased temporary stabilization will not be required.

Permanent Stabilization – Areas where construction activity has permanently ceased shall be permanently stabilized as soon as possible but within no more than 14 days after construction has ceased. Periodic inspection by City of Wheaton personnel of permanently stabilized areas will occur until 70% vegetation has been achieved. Any stabilization failures will be brought to the attention of the contractor and repaired immediately.

B. Perimeter Erosion Barrier (Silt Fence)

Silt Fence shall be installed before any work in the project area. Silt fencing is required in all locations where there is slope away from the street towards private property and the plans require work that will result in earth exposure. Installation of Silt Fence shall follow Standard Practice as outlined in the Illinois Urban Manual in all locations as outlined in the plans.

C. Storm Sewer Sediment Control Inlet Filter (Silt Basket)

Silt Baskets shall be installed before any work that will result in earth exposure. Silt Baskets are required in all storm sewer inlets in the project area where work will result in exposed earth and in the first downstream inlet(s) from such a project area. City of Wheaton personnel will perform weekly inspections of all installed silt baskets and notify the contractor when maintenance is required. Silt Baskets are required to remain installed until all exposed earth has achieved 70% permanent or temporary vegetative cover or all exposed earth is covered by Erosion Control Blanket.

D. Dewatering Sediment Control Pump Filter Bags

All dewatering operations shall discharge through a pump filter bag.

Section 3: Good Housekeeping BMPs

A. Concrete Washout Facility

Concrete waste or washout is not allowed to reach a storm water drainage system or watercourse. Temporary concrete washout facilities shall be constructed as per the specifications in the Illinois Urban Manual. The temporary concrete washout facility shall be of sufficient volume to completely contain all liquid and concrete waste materials including enough capacity for anticipated levels of rainwater. The temporary concrete washout facility shall be lined with a minimum of 30 mil plastic sheeting. Temporary concrete washout facilities shall not be filled more than 66% of the total capacity. Temporary concrete washout facilities shall be disposed of immediately if more than 66% of the total capacity is reached, including rainwater.

B. Waste Management

No solid materials, including building materials, shall be discarded to Water of the State, except as authorized by a Section 404 permit. All waste materials shall be collected and removed off site. Construction waste material is not to be buried on site. Hazardous material shall not be stored on site. Any hazardous waste should be disposed of in the manner specified by local or State regulation or by the manufacturer.

C. Material Storage

Materials or contaminants shall be stored in a manner that minimizes the potential to discharge into a storm water drainage system or watercourse. Petroleum products shall be stored in a tightly sealed container. All materials shall be stored in their original containers with legible labels. Any release of chemicals / contaminants shall be immediately cleaned up and disposed of in the manner specified by local or State regulation or by the manufacturer.

D. Spill Prevention

The construction site shall have the capacity to manage, contain, and clean up any contaminants or oil caused by a spill should they occur. Spills shall be immediately cleaned up in accordance to the MSD sheets and shall not be buried on site or washed into a storm water drainage system or watercourse. BMPs shall be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. The contractor shall produce a written plan stating how his/her company will prevent, report, and clean up spills and provide a copy to all of his/her employees and the resident engineer. The contractor shall notify all of his/her employees on the proper protocol for reporting spills. The contractor shall notify the resident engineer of any spills immediately.

Section 4: Allowable Non-Stormwater Discharge Management

- A. Except for flows from fire fighting activities, sources of non-stormwater that may be combined with storm water discharges associated with construction activity in this SWPPP are as follows:
- Watering for Dust Control
 - Potable water including hydrant and waterline flushing
 - Uncontaminated air conditioning condensate
 - Uncontaminated compressor condensate
 - Uncontaminated groundwater
 - Landscape Irrigation
- B. The following Best Management Practices for allowable non-stormwater discharge shall be followed:
- All hydrant and waterline flushing shall not be flushed directly onto an exposed earth area. Hoses should be used to direct the flow onto a stabilized area. A stabilized area where runoff will not flow across an exposed area should be used where possible.
 - Erosion from landscape irrigation shall be kept to a minimum.

Section 5: Inspections

Qualified personnel shall inspect disturbed areas of the construction site which have not yet been permanently stabilized, structural control measures, and good housekeeping BMPs. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

- A. Disturbed areas, use areas (storage of materials, stockpiles, machine maintenance, fueling, etc.), borrow sites, and waste sites shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Discharge locations or points that are accessible, shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- B. Based on the results of the inspection, the description of potential pollutant sources identified in Section 1 above and pollution prevention measures identified in Section 2 & 3 above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within ½ hour to 1 week based on the urgency of the situation. The resident engineer will notify the contractor of the time required to implement such actions through the weekly inspection report.

- C. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with section IV (B) shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.

- D. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an “Incidence of Noncompliance” (ION) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit. The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

Section 6: SWPPP Operator Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Project: 2017 West Street Water Main Replacement Project

Permit #: ILR400470

Signature of Operator

Date

Printed Name of Operator

CONTRACTOR CERTIFICATION

STORMWATER POLLUTION PREVENTION PLAN

Project Number: _____

Project Title: 2017 West Street Water Main Replacement Project

Operator(s): City of Wheaton

As a contractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the Engineering Department in City Hall. Each contractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.

This certification is hereby signed in reference to the above named project:

Company: _____

Address: _____

City, State, Zip Code: _____

Telephone Number: _____

Type of construction service to be provided: _____

Contractor Signature: _____

Printed Name / Title: _____

Date: _____



CITY OF WHEATON STORMWATER POLLUTION PREVENTION INSPECTION FORM

| | | |
|--|------------|-------|
| Site Name: | Inspector: | Date: |
| Stormwater Plan Type: <input type="checkbox"/> Simple Plan <input type="checkbox"/> Full SWPP → <input type="checkbox"/> SWPP Onsite / <input type="checkbox"/> NOI Onsite | | |
| Reason for Inspection: <input type="checkbox"/> Weekly <input type="checkbox"/> > 1/2" Rain <input type="checkbox"/> Random <input type="checkbox"/> Complaint | | |

Construction Entrance Installed Correctly? Yes No N/A
Problems? Mud in Stones Sediment Tracked Offsite Other _____
Action Needed _____

Silt Fence Installed Correctly? (Entire Site) Yes No N/A
Problems? Fabric Not Trenched Broken Stakes Fabric Down/Cut Not Installed Where Needed
 Removed Before Permanent Stabilization Other _____
Action Needed _____

Inlet Protection / Culvert Protection Installed Correctly? (Entire Site) Yes No N/A
Problems? Runoff Ponding Hole in Fabric Basket Full Not Installed Where Needed
 Other _____
Action Needed _____

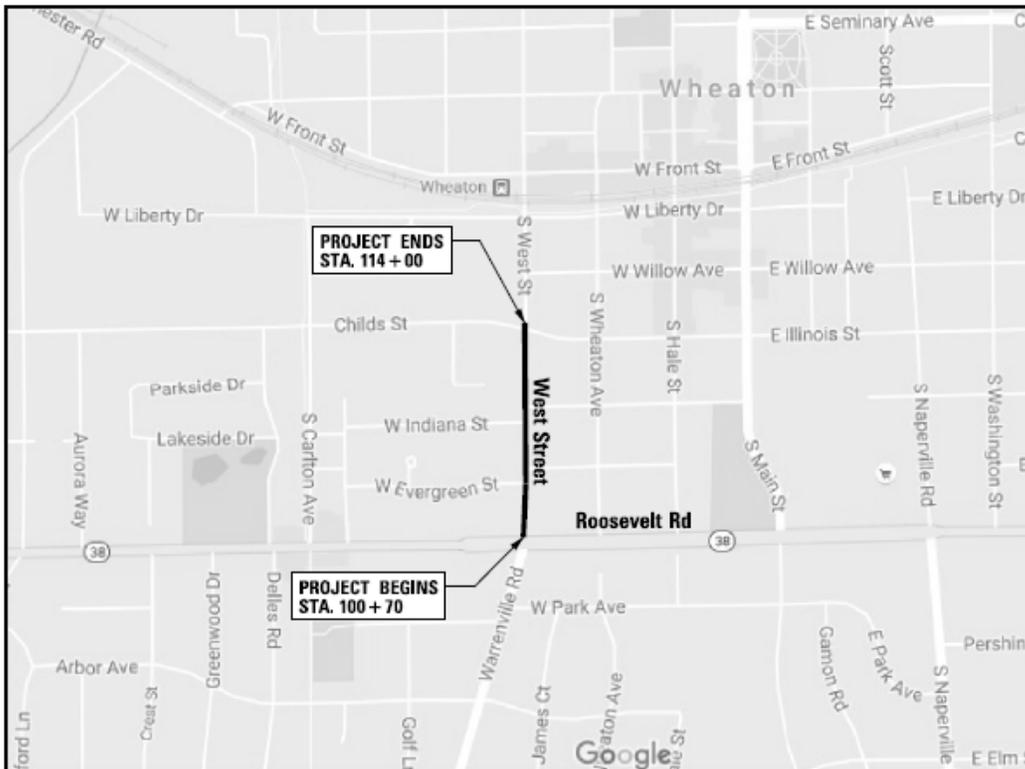
Concrete Washout Area in Place? Yes No N/A
Problems? Washout Area Leaking Washout over 2/3 Full Other _____
Action Needed _____

Sediment Basin / Sediment Trap / Rock Check Dam Installed Correctly? Yes No N/A
Problems? Runoff Not Directed Correctly Downstream Not Stabilized Fabric Down/Cut
 Over 40% Full Emergency Overflow Incorrect Other _____
Action Needed _____

Temporary Stabilization Installed in All Dormant Areas? (after 7 days) Yes No N/A
Problems? Stockpile Entire Site Erosion Blanket Other _____
Action Needed _____

Permanent Stabilization Completed? (Entire Site) Yes No N/A
Problems? No Stabilization Method Vegetation not 70% Other _____
Action Needed _____

Violations and Corrective Action
Site in Compliance with NPDES Permit and/or DuPage County and City Ordinances? Yes No
Corrective Action Required (Verbal On Site) Yes No
Corrective Action Required (Send Letter) Yes No
Sediment Discharge from Site Yes No - Document Incidence of Non-Compliance (ION) Yes No
Stop Work Order Yes No
Penalty Action Yes No



LOCATION MAP

LENGTH OF PROJECT TOTAL= 1,358 FEET (0.26 MILES)

GUIDELINES FOR COMPLETION OF INCIDENCE OF NON-COMPLIANCE (ION) FORM

Complete and submit this form for any violation of the Storm Water Pollution Prevention Plan observed during any inspection conducted, including those not required by the Plan. Please adhere to the following guidelines.

< Submit original, photocopy or facsimile copies. Facsimile and/or photo copies should be followed-up with an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the lower right hand corner.

< Submit completed forms to:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276

< Reports must be typed or printed legibly and signed.

< Use the formats given in the following examples for correct form completion.

| <u>Example</u> | | <u>Format</u> |
|----------------|-----|--|
| SECTION | 12 | 1 or 2 numerical digits |
| TOWNSHIP | 12N | 1 or 2 numerical digits followed by "N" or "S" |
| RANGE | 12W | 1 or 2 numerical digits followed by "E" or "W" |

TEMPORARY CONCRETE WASHOUT FACILITY

(no.)
CODE 954



(Source: Illinois Urban Manual Technical Committee)

DEFINITION

A device used to manage liquid and solid wastes from concrete usage on construction sites.

PURPOSE

The purpose of this practice is to control concrete wastes to prevent both on-site and off-site pollution.

CONDITIONS WHERE THIS PRACTICE APPLIES

This practice applies on any construction site where concrete is used.

CRITERIA

The following steps shall be taken to effectively control concrete wastes.

1. Perform washout of concrete mixer trucks in designated areas only.

2. Each facility shall have appropriate signage to inform concrete equipment operators of the proper washout locations.

3. Each facility shall be located in an area protected from possible damage from construction traffic and have a stabilized access to prevent tracking onto streets.

4. Washout facilities shall be located on level ground a minimum of 15 m (50 ft) from storm drain inlets and all open drainage facilities.

5. Temporary concrete washout facilities shall be supplied in sufficient quantity and size to manage all liquid and solid wastes generated by washout operations.

6. Washout water from low volume facilities shall be allowed to evaporate and not be discharged into the environment.

7. Washout water from high volume facilities shall be removed with a vacuum truck and taken back to the batch plant. Washout water shall not be discharged into the environment.

8. Solidified concrete waste from washout facilities shall be considered Clean Construction or Demolition Debris (CCDD) as per the Illinois Environmental Protection Act (415 ILCS 5) and disposed of in accordance to the Act.

9. Each facility shall be inspected daily to ensure the container is not leaking or nearing two-thirds capacity of either solids, liquids or a combination of both.

PREFABRICATED CONCRETE WASHOUT FACILITIES

1. Prefabricated facilities can be any water tight unit designed to contain concrete slurry and solids.

2. Prefabricated facilities shall be of sufficient volume and quantity to contain all the liquids and concrete waste generated by washout operations.

TEMPORARY CONCRETE WASHOUT FACILITIES "ABOVE GRADE"

1. Above grade washout facilities shall be constructed with a minimum length and minimum width of 3m (10 ft) but of sufficient volume and quantity to contain all the liquids and concrete waste generated by washout operations.

2. The walls of the above grade facilities may be constructed of straw bales, barrier walls or earthen berms. If straw bales are used, they shall be entrenched 3" into the earth, butted

tightly end to end and staked in place using 2" x 2" x 4' wooden stakes. If barrier walls are used, they shall be butted tightly end to end.

3. The facility shall be lined with a 30-mil polyethylene liner and secured using sand bags, 6" wire staples, or other anchors. The plastic lining material shall be free of holes and tears and must be impermeable.

TEMPORARY CONCRETE WASHOUT FACILITIES "BELOW GRADE"

1. Below grade washout facilities shall be constructed with a minimum length and minimum width of 3m (10 ft) but of sufficient volume and quantity to contain all the liquids and concrete waste generated by washout operations.

2. The soil base shall be prepared free of rocks or debris that may cause tears or holes in the plastic lining material.

3. The facility shall be lined with a 30-mil polyethylene liner and secured using sand bags, 6" wire staples or other anchors. The plastic lining material shall be free of holes and tears and must be impermeable.

REMOVAL OF TEMPORARY WASHOUT FACILITIES

1. When temporary concrete washout facilities are no longer required for the work, the facilities shall be removed from the site of the work.

2. Holes, depressions or other ground disturbances caused by removal of the temporary concrete washout facilities shall be restored to the satisfaction of the engineer.

CONSIDERATIONS

Concrete washout wastewater is corrosive and toxic. The pH of concrete can be over 12 which is the same as many household cleaners. These toxins can clog fish gills, reducing their oxygen and causing death. These pH levels can also be long lasting in the soil. Plants may become stunted or refuse to grow in these soils. Restoration of ground surface surrounding washout facilities may require removal and replacement of top soils, nutrients and alkaline tolerant seed mixture.

Concrete washout water may be considered to be a hazardous waste due to the high pH (characteristic hazard waste due to corrosiveness). Check with local regulatory authorities to ensure it is disposed of in accordance with local, state and Federal regulations.

If access to concrete washout facilities is off pavement, vehicle tracking control may be required.

If larger one day pours are scheduled, multiple facilities may be required or constant maintenance will be necessary throughout the day.

Above grade units shall not exceed a size in which the outside barrier chosen (straw bales, barrier walls, earthen berm) becomes structurally unsound. If the need for a larger facility arises, a below grade facility may be necessary.

If the project is located in areas with potentially high water tables, above grade or prefabricated facilities should be used to prevent leaching of wastewater into groundwater.

As with any other harmful material storage facilities (e.g. petroleum products, concrete curing compounds, etc.) a temporary cover may be necessary to deter rain water from filling the facility and allowing wash water and/or slurry to discharge into the environment.

PLANS AND SPECIFICATIONS

Plans and specifications shall be prepared in accordance with the criteria of this standard and shall describe the requirements for applying the practice to achieve its intended use.

Standard drawing [IL-654 TEMPORARY CONCRETE WASHOUT FACILITY](#) may be used as the plan sheet.

OPERATION AND MAINTENANCE

1. Temporary concrete washout facilities shall be maintained to provide adequate holding capacity with a minimum freeboard of 100 mm (4 in.) for above grade facilities and 300 mm (12 in.) for below grade facilities. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete or slurry and returning the facilities to a functional condition.

2. Existing facilities must be cleaned, or new facilities must be constructed and ready for use once the washout is two-thirds full.

3. Temporary concrete washout facilities shall be inspected for damage (e.g. tears in plastic liner, missing sand bags, etc.). Damaged facilities shall be repaired promptly.

REFERENCES

State of California Department of Transportation, 2003. Construction Site Best Management Practice (BMP) Field Manual and Troubleshooting Guide. CA

California Stormwater Quality Association, 2003. Construction Handbook. CA

IL Urban Manual Technical Committee, July 2008

urbst954.doc



Construction & Geotechnical Material Testing, Inc.

60 Martin Lane, Elk Grove Village, Illinois 60007
♦ Telephone (630) 595-1111 ♦ Fax (630) 595-1110

October 19, 2016

CGMT Project: 16G0333

Mr. Sarang A. Lagvankar, P.E.
City of Wheaton
303 Wesley Street, Box 727
Wheaton, Illinois 60189

**RE: Soil Laboratory Testing
2017 LAFO Watermain
Wheaton, Illinois**

Dear Mr. Lagvankar:

As requested, Construction and Geotechnical Material Testing, Inc. (CGMT) has completed the laboratory testing of the sub-soils that were sampled at various depths below ground surface from our subsurface exploration in Wheaton, Illinois. The samples were sealed in jars, labeled and transported back to the CGMT lab.

The samples were subjected to pH determination (ASTM D 4972). The results of these tests on the samples are summarized as follows:

pH Determination:

| <u>Location</u> | <u>Data 1</u> | <u>Data 2</u> | <u>Specification</u> | <u>In/Out</u> |
|----------------------|---------------|---------------|----------------------|---------------|
| West St, 1 (-3) | 8.34 | 8.35 | 6.25-9.00 | IN |
| West St, 1 (-7) | 8.34 | 8.40 | 6.25-9.00 | IN |
| West St, 2 (-3) | 8.46 | 8.41 | 6.25-9.00 | IN |
| West St, 2 (-7) | 8.17 | 8.12 | 6.25-9.00 | IN |
| Harrison St, 1 (-3) | 7.78 | 7.80 | 6.25-9.00 | IN |
| Harrison St, 1 (-7) | 8.12 | 8.18 | 6.25-9.00 | IN |
| Manchester, 1 (-3) | 7.90 | 7.87 | 6.25-9.00 | IN |
| Manchester, 1 (-7) | 8.33 | 8.30 | 6.25-9.00 | IN |
| President St, 1 (-3) | 7.81 | 7.79 | 6.25-9.00 | IN |
| President St, 1 (-7) | 7.66 | 7.70 | 6.25-9.00 | IN |

Please contact me if you have any questions regarding this information.

Respectfully,

CONSTRUCTION & GEOTECHNICAL MATERIAL TESTING, INC.

Pratik Patel

Pratik K. Patel, P.E.
Vice President

PERMITS, PERMIT BONDS, AND LICENSES

The successful Bidder shall obtain, at their own expense, all permits and licenses that may be required to complete the contract, and/or required by municipal, State, and Federal regulations and laws. The City will obtain the construction permit from the Illinois Environmental Protection Agency, Division of Public Water Supplies.

The successful Bidder will be given copies of all available approvals, licenses, and easements, and shall be obligated to observe all conditions of the approvals and licenses as issues.

Permits and Licenses that the Contractor shall obtain include but are not limited to IDOT Region One Utility Permit, IDOT Individual Utility Permit Bond, and IDOT Traffic Control Authorization Request. Sample forms are provided herein.

An IDOT Region One Highway Permit is required for the work within IDOT right-of-way near IL Route 38. The Successful Bidder shall cooperate with the City to finalize the IDOT Region One Permit and IEPA Construction Permit as follows:

- a) Highway Permit Form (OPER 1045): The City shall prepare this form as Property Owner with the Successful Bidder signing as Witness. This permit shall be submitted to the City in triplicate.
- b) Individual Highway Permit Bond (OPER 1046): The Successful Bidder as Principal shall execute this bond in the exact amount required by the Illinois Department of Transportation through a licensed bonding company. This bond shall be submitted to the City in triplicate.

The Successful Bidder shall submit the Highway Permit and Individual Highway Permit Bond to the City within fourteen (14) calendar days of the City's issuance of the Notice to Proceed. If circumstances occur where additional permits or licenses are required, the Successful Bidder shall obtain, at their own expense, all permits and licenses necessary to complete the contract, and/or required by municipal, State, and Federal regulations and laws.



Public Improvement Yes No

IDOT Permit No. _____

Utility Reference No. _____

I (We) City of Wheaton , 303 West Wesley Street
Name of Applicant Mailing Address

Wheaton , IL 60187 , hereinafter termed the Permittee.
City State & Zip

request permission and authority to occupy, and to do certain work herein described on, the right-of-way of the State highway known as IL Route 38 (Roosevelt Road) , Section _____ , from Sunnyside Avenue to Main Street in DuPage County. The work is described in detail below and/or on the attached sketch or plans.

Proposed detour signage and traffic control and protection within IL Route 38 ROW to accommodate water main replacement project, and associated northbound lane closures on West Street in the City of Wheaton. Refer to attached detour plan and MOT plans.

This permit covers the operation and presence of specified equipment, material or facility on the right-of-way that may be related to the authorized work. **A copy must be present when crews or equipment occupy highway right-of way. Failure to comply is cause to stop all construction.**

This permit is subject to conditions and restrictions of Part 530 of Title 92 of the Illinois Administrative Code, Accommodation of Utilities on Right-of-Way of the Illinois State Highway System. **The removal, relocation or modification of facilities permitted to occupy the right-of-way is governed by Section 9-113 of the Illinois Highway Code, as amended by Public Act 92-0470. The Permittee agrees to comply with the requirements of these laws and with all terms and conditions established by this permit. This permit is subject to revocation by the Department on violation of the terms and conditions governing its use.**

Should you have any questions concerning this Utility Permit, please contact our Region One Utility Coordinator, Mr. Steve Rosato at (847) 705-4258, Fax # (847) 705-4597.

Signature of Agent for Permittee Date

City of Wheaton
Name of Permittee (Print or Type)

303 West Wesley Street
Mailing Address

Wheaton IL 60187
City State Zip

The work authorized by this permit shall be completed within _____ days (**by** _____) after the date of approval by the Department otherwise the permit will be considered null and void.

Public Improvement Projects only: The anticipated letting date is 5/8/2017

This permit allowing occupancy and work on state right-of-way is approved. **The Utility Coordination Council established by the Department in the area covered by this permit is Region One.**

Deputy Director of Highways, Region One Engineer

Date

This permit is subject to the conditions and restrictions established in accordance with the Illinois Highway Code and Part 530 of Title 92 of the Illinois Administrative Code including but not limited to the following:

- (1) The applicant represents all parties in interest and shall furnish material, do all work, pay all costs and shall in a reasonable length of time restore the damaged portions of the highway to a condition similar or equal to that existing before the commencement of the described work, including any landscape restoration necessary. (See Section 530.250 of Title 92).
- (2) The proposed work shall be located and construction to the satisfaction of the District Engineer or his duly authorized representative. No revisions or additions shall be made to the proposed work on the right-of-way without the written permission of the District Engineer or his duly authorized representative (See Section 530.200 of Title 92). **In certain circumstances the Department may require that the construction plans and/or the as-built documents be sealed by an Illinois Registered Professional Engineer. Typical of such projects would be petroleum or gas pipelines.**
- (3) The applicant shall at all times conduct the work in such a manner as to minimize hazards to vehicular and pedestrian traffic. All signs, barricades, flaggers, etc., required for traffic control shall be furnished by the applicant. (See Section 530.240 of Title 92).
- (4) The applicant must ascertain the presence of Highway Authority Agreements established in accordance with 35 Ill. Admin. Code Section 742.1020 in the path of its proposed installation and take precautions to protect its workers, human health and the environment in those areas. (See Section 530.240 of Title 92). Where contamination is encountered through excavation in the ROW, it should be managed offsite and IDOT's generator number for the appropriate county may be used.
- (5) The applicant shall not trim, cut or in any way disturb any trees or shrubbery along the highway without the approval of the District Engineer or his duly authorized representative. (See Section 530.600 of Title 92).
- (6) **The facilities authorized to occupy the right-of-way by this permit are subject to removal, relocation or modification by the permittee at no expense to the State on notice given by the Department in accordance with Section 9-113 of the Illinois Highway Code, as amended. Participation by the permittee in the UTILITY Coordination Council identified on page one of this permit is required as a condition of this permit. Permittee shall cooperate with the Department with the scheduling of any removal, relocation or modification deemed necessary for highway or highway safety purposes, and, if Utility Coordination Council participation is required by this permit, with the activities of the council identified on the first page of this permit. (See Section 9-113 of the Illinois Highway Code.) Use of and compliance with current IDOT Traffic Control Standards will be required.**
- (7) If the applicant and the District cannot agree either on whether the permit should be issued or on what conditions would be appropriate, the applicant may, within 30 days of the issuance of written notice of the District's position, appeal the District's determination to the Chief of the Department's Central Bureau of Operations. (See Section 530.900 of Title 92).
- (8) The permittee agrees to fully comply with the following legal obligations in advance of entering and while upon any Right-of-way within the Illinois State Highway System.
 - a) *Only a permit issued by the Department under this Part will satisfy the "written consent" requirement of Section 9-113 of the Illinois Highway Code (the Code).*
 - b) *A permit from the Department grants a license only to undertake certain activities in accordance with this Part on a State right-of-way, and does not create a property right or grant authority to the permittee to impinge on the rights of others who may have an interest in the right-of-way. Such others might include an owner of an underlying fee simple interest if the right-of-way is owned as an easement or dedication of right of way, an owner of an easement, or another permittee.*
 - c) *It shall be the responsibility of the permittee to ascertain the presence and location of existing above-ground or underground facilities on the highway right-of-way to be occupied by their proposed facilities. The Department will make its permit records available to a permittee for the purpose of identifying possible facilities. When notified of an excavation or when requested by the Department, a permittee shall locate, physically mark, and indicate the depth of its underground facilities within 48 hours excluding weekends and holidays.*
 - d) *The permittee shall avoid conflicts with any existing underground or above-ground facilities on or near the highway right-of-way. Both the Department and J.U.L.I.E. are to be contacted for assistance during the application process.*
 - e) *The permittee shall comply with all other applicable laws relating to the placement of utility lines.*
 - f) *The issuance of a utility permit by the Department does not excuse the permittee from complying with any existing statutes, local regulations or requirements of other Department (e.g., oversize and overweight vehicles) or the requirements of other State agencies including, but not limited to, the following:*

*Illinois Commerce Commission, Illinois Department of Agriculture
 Illinois Department of Natural Resources, Illinois Department of Mines and Minerals
 Illinois Environmental Protection Agency, Illinois Historic Preservation Agency*
 - g) *Rights of abutting and underlying property owners are protected by common law and Sections 9-113 and 9-127 of the Code. The permittee will address these rights prior to initiating activities on State right-of-way. The Department will not be a party in any negotiations between the utility and abutting property owners.*
 - h) *In no case shall the permit give or be construed to give an entity any easement, leasehold or other property interest of any kind in, upon, under, above or along the State highway right-of-way.*
 - i) *Each person responsible for a utility, in place on the effective date of this Part, on a State highway right-of-way shall notify the Department in writing, if that facility does not comply with this Part. The Department shall treat such a notice as a request for a variance under Section 530.130. Until informed that a variance will not be granted, a person responsible for a pre-existing utility will not be in violation of this Part. The failure to provide such notice constitutes a violation of this Part and of the utility accommodation permit (if any) and would justify the imposition of the sanctions set forth in Section 530.810.*

Work to be coordinated with Department Representatives:

| | | | |
|--|--|-------|-----|
| IDOT Resident Engineer (Public Improvements) | | Phone | () |
| IDOT Maintenance Yard | | Phone | () |

Utility Contact Person: _____ Phone _____ ()

Work to be done by:

Contractor: _____

Daytime Phone: _____ () Emergency Phone: _____ ()

Traffic control operation:

Number of lane closures: _____ Time of closures: _____



Bond No. _____

We _____ , _____
(Mailing Address)

as Permittee, and _____ , as Surety, do hereby guarantee performance
of the work described in the Illinois Department of Transportation Utility Permit number _____ which
grants permission and authority to perform that work upon or adjacent to _____

Route _____ in _____ County in accordance with the terms
and description in the permit and sketch and with Part 530 of Title 92 of the Illinois Administrative Code, Accommodation of
Utilities on Right-of-Way of the Illinois State Highway System.

If the Permittee performs the work in accordance with the terms and conditions of and description in the permit and sketch
and with Part 530 of Title 92 of the Illinois Administrative Code, Accommodation of Utilities on Right-of-Way of the Illinois
State Highway System, no claim or demand will be made against this bond's monetary obligation. Otherwise, the Surety is
liable to the Department for all expenses incurred in any action in which it prevails against the Permittee or Surety.

Surety's monetary responsibility under this bond is limited to \$ _____ and shall also be the responsibility
of its successors and assigns for five years.

Surety shall provide written notice to the Illinois Secretary of Transportation at least 30 days prior to the inability (due to
dissolution or otherwise) of Surety to fulfill its commitments under this bond. Permittee and Surety have a joint and severable
responsibility to replace Surety within the 30 day period with another Surety acceptable to the department.

By our signatures below, we commit ourselves to the terms and the conditions of this bond:

Signature of Agent for Surety

Signature of Agent for Permittee

Name of Surety (Print or Type)

Name of Permittee (Print or Type)

Mailing Address

Mailing Address

City State Zip

City State Zip

() _____
Telephone Number Date

() _____
Telephone Number Date



Traffic Control Authorization Request

District: One

County DuPage

Project West Street Water Main Replacement

Contract Number

Marked Route IL Route 38 at West Street

Section

Location Sunnyside Avenue to Main Street

Inclusive Dates of Work to Work Hours AM PM to AM PM

Work Type Maintenance Construction Traffic Other

Describe Work Detour signage and traffic control and protection within IL Route 38 ROW to accommodate water main replacement and associated northbound lane closures on West Street in the City of Wheaton.

Contractor or Agency Doing Work City of Wheaton

Responsible Engineer: (Construction Foreman/Superintendent, Maintenance/Traffic Field Engineer)

Name Telephone No. Office Home (If traffic control is to be employed between 5:00 p.m. and 8:30 a.m. or on Saturday, Sunday or holidays give addition numbers)

Name Telephone No.

Name Telephone No.

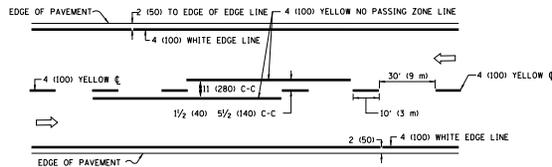
Name Telephone No.

Controls: (Describe specific controls to be used, including reference to appropriate Highway Standards or sections of manuals, and set forth any special controls proposed).

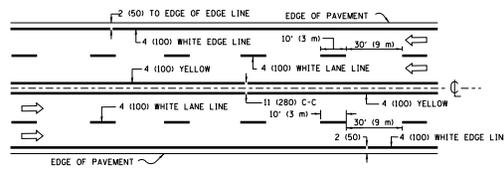
Distribution District Operations/Traffic Engineer Project Implementation Engineer Field Engineer Resident Engineer ISP District

Submitted by:

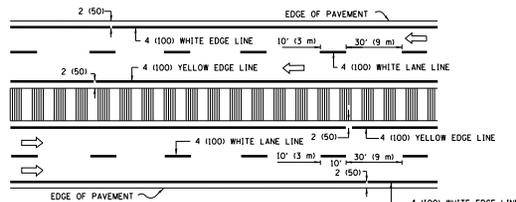
Approved by: (District Operations/Traffic Engineer)



2-LANE ROADWAY

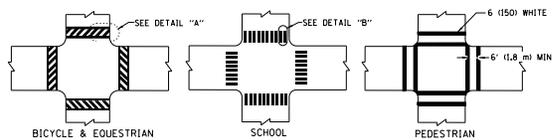


MULTI-LANE UNDIVIDED



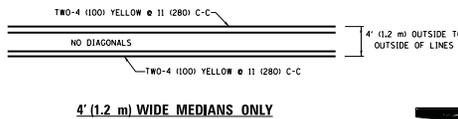
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

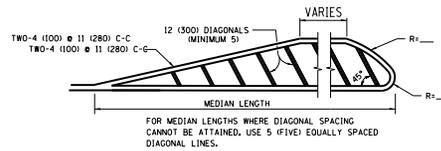


TYPICAL CROSSWALK MARKING

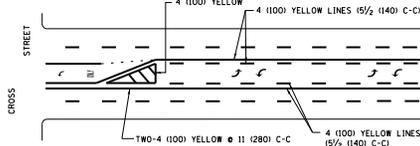
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



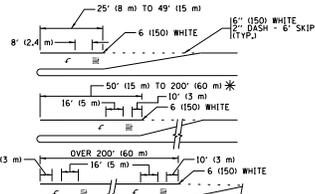
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

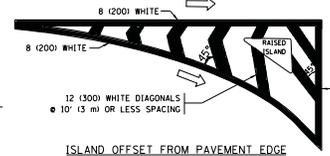


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

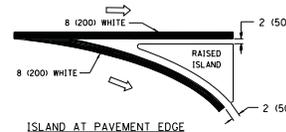


TYPICAL LEFT (OR RIGHT) TURN LANE

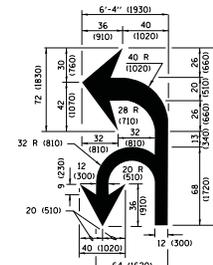
TYPICAL TURN LANE MARKING



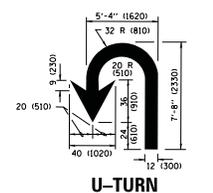
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

| D(FT) | SPEED LIMIT |
|-------|-------------|
| 345 | 30 |
| 425 | 35 |
| 500 | 40 |
| 580 | 45 |
| 665 | 50 |
| 750 | 55 |

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING /REMARKS |
|--|--|------------------------------|---|---|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5/2 (140) C-C FOR SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MEDIANS IN YELLOW |
| TURN LANE MARKINGS | 6 (150) LINE, FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BICYCLE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID | WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE. |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW TWO WAY TRAFFIC WHITE ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| CORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C OVER 45MPH (70 km/h) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES: "RR" 15' 6" (4.8 m) LETTERS: 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "X": 3.6 SO. FT. (1.1 m) "X": 5.4 SO. FT. (1.6 m) |
| SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8') | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C OVER 45MPH (70 km/h) |
| U TURN ARROW | SEE DETAIL | SOLID | WHITE | 16.3 SF |
| 2 ARROW COMBINATION LEFT AND U TURN | SEE DETAIL | SOLID | WHITE | 30.4 SF |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in Inches (millimeters) unless otherwise shown.

| | | | |
|--|----------------------------|------------------|------------------------------|
| FILE NAME = | USER NAME = footenj | DESIGNED - EVERS | REVISED - C. JUCIUS 09-09-09 |
| ps:\11084EBIDINTEG\illinois.gov\PIDOT\Documents\1007 Offices\District 1\Projects\Dist 01\BAM\CADData\CAD\sheet\131.dgn | | | REVISED - C. JUCIUS 07-01-13 |
| Default | PLOT SCALE = 50.000' / in. | CHECKED - | REVISED - C. JUCIUS 12-21-15 |
| | PLOT DATE = 4/13/2016 | DATE = 03-19-90 | REVISED - C. JUCIUS 04-12-16 |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| | | | |
|---|---------|-------------|---------------------------|
| DISTRICT ONE TYPICAL PAVEMENT MARKINGS | | | |
| SCALE: NONE | SHEET 1 | OF 1 SHEETS | TOTAL SHEET NO. |
| SHEET 1 OF 1 SHEETS | | | CONTRACT NO. |
| SHEET 1 OF 1 SHEETS | | | ILLINOIS FED. AID PROJECT |

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

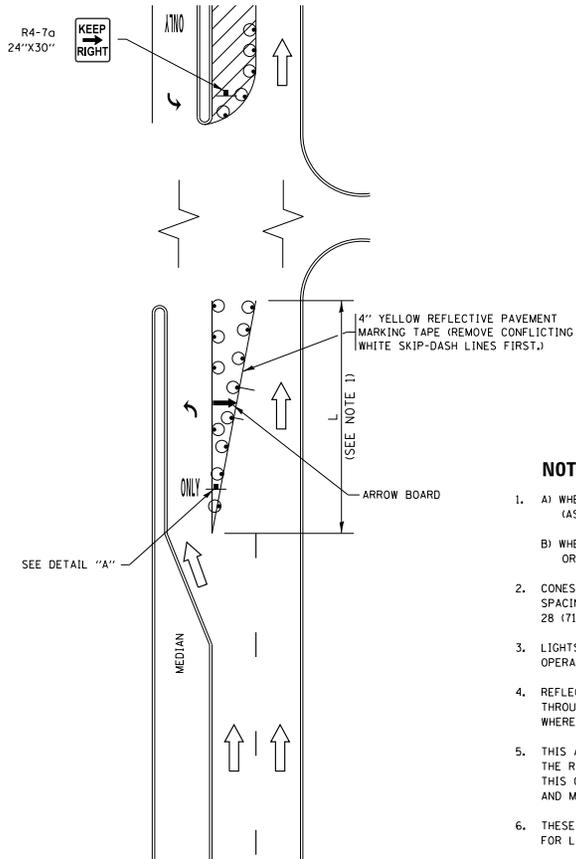
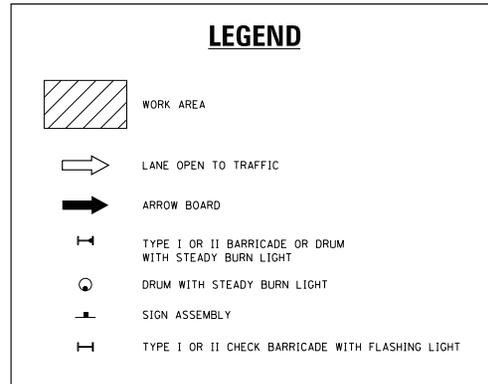


FIGURE 1



NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
- B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

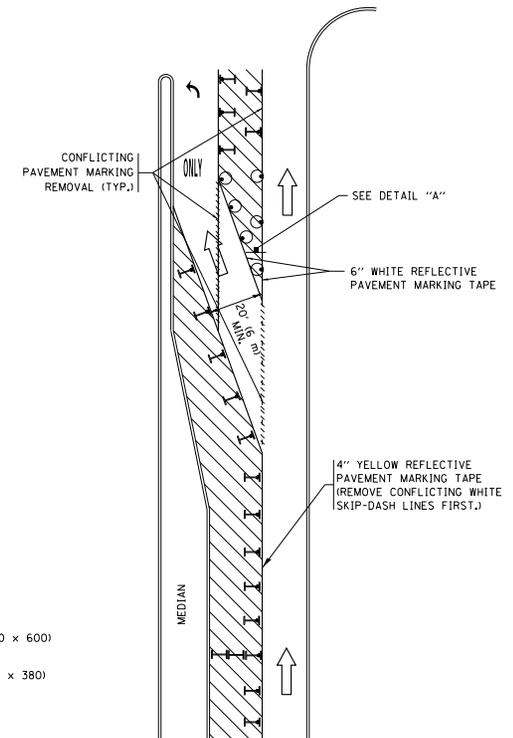
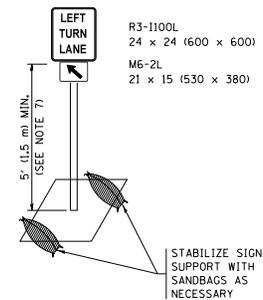


FIGURE 2



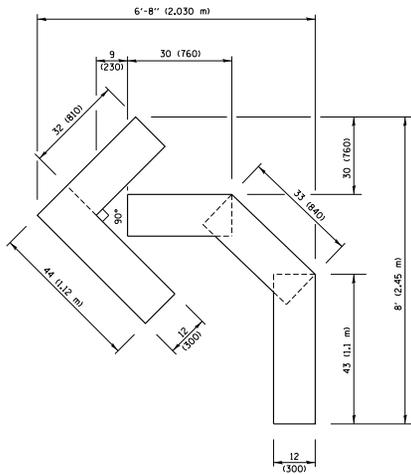
All dimensions are in inches (millimeters) unless otherwise shown.

| | | | |
|---|------------------------------|---------------------------------|--------------------------------|
| FILE NAME : | USER NAME : footej | REVISED - T. RAMMACHER 09-08-94 | REVISED - R. BORO 09-14-09 |
| pat\\vl084EBIDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District I\Projects\Dist I\2016\06\07-95 | PROJECT NO: 0607-95 | REVISED - A. SCHUETZE 07-01-13 | REVISED - A. SCHUETZE 07-01-13 |
| Default | PLOT SCALE = 50.0000' / 1" = | REVISED - A. HOUSEH 10-12-96 | REVISED - A. SCHUETZE 09-15-16 |
| | PLOT DATE = 9/15/2016 | REVISED - T. RAMMACHER 01-06-00 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

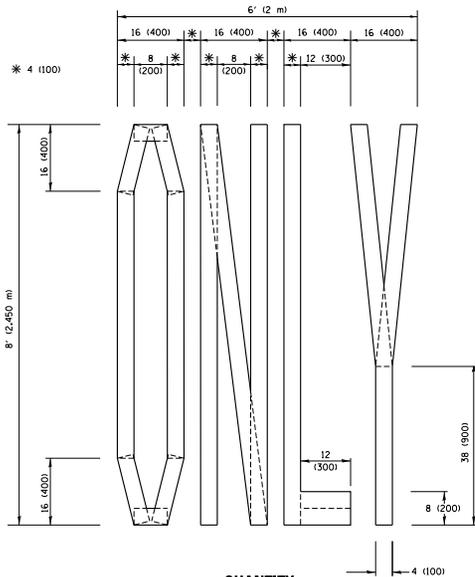
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

| | | | | | | | | | | | |
|-------------|---------|------|--------|------|---------|---------------------------|---------|--------------|--------------|-----------|--|
| SCALE: NONE | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. | P.A. SITE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | | | | | | TC-14 | | CONTRACT NO. | | | |
| | | | | | | ILLINOIS FED. AID PROJECT | | | | | |



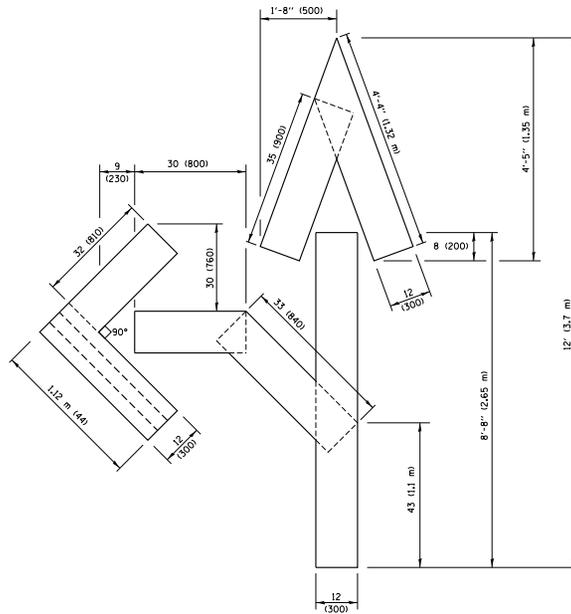
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

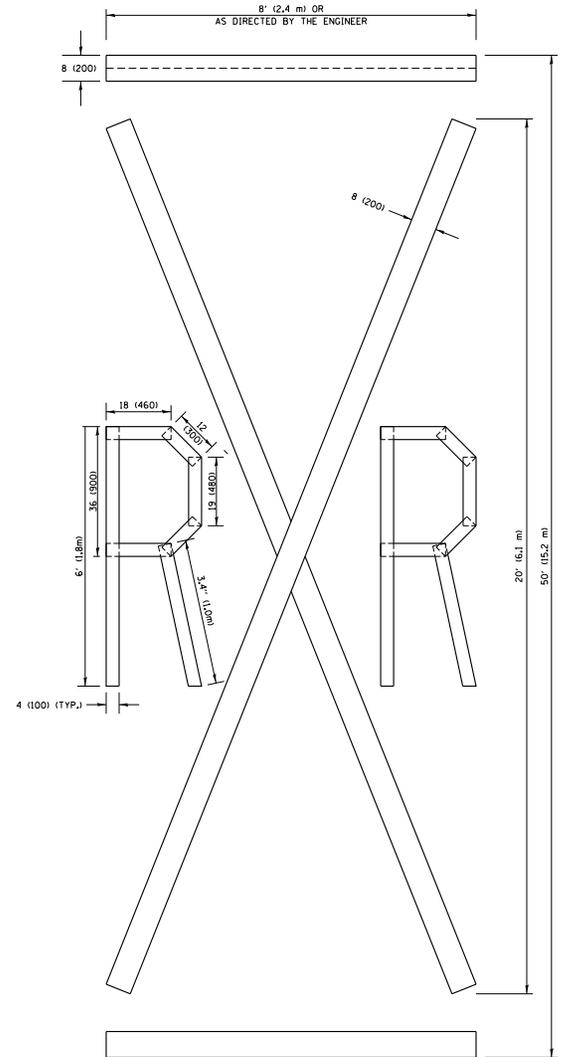


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

| | | | |
|--|---------------------|-----------------|---------------------------------|
| FILE NAME = | USER NAME = footemj | DESIGNED - | REVISED - T. RAMMACHER 03-02-98 |
| ps:\1\084EB\INTEG\illinois.gov\P\1001\Documents\1001\District 1\Projects\Dist 1\084EB\CAD\Sheet\sc1.edgn | | CHECKED - | REVISED - E. GOMEZ 08-28-00 |
| | | DATE - 09-18-94 | REVISED - E. GOMEZ 08-28-00 |
| | | | REVISED - A. SCHUETZE 09-15-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| P.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------|--------------|-----------|
| | TC-16 | | | |
| FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT | | | CONTRACT NO. | |

ROUTE MARKERS

FOR U.S. ROUTES
MI-40-2424

FOR ILLINOIS ROUTES
MI-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-1-2115

M6-9-2115

CARDINAL DIRECTION & DETOUR SIGNS

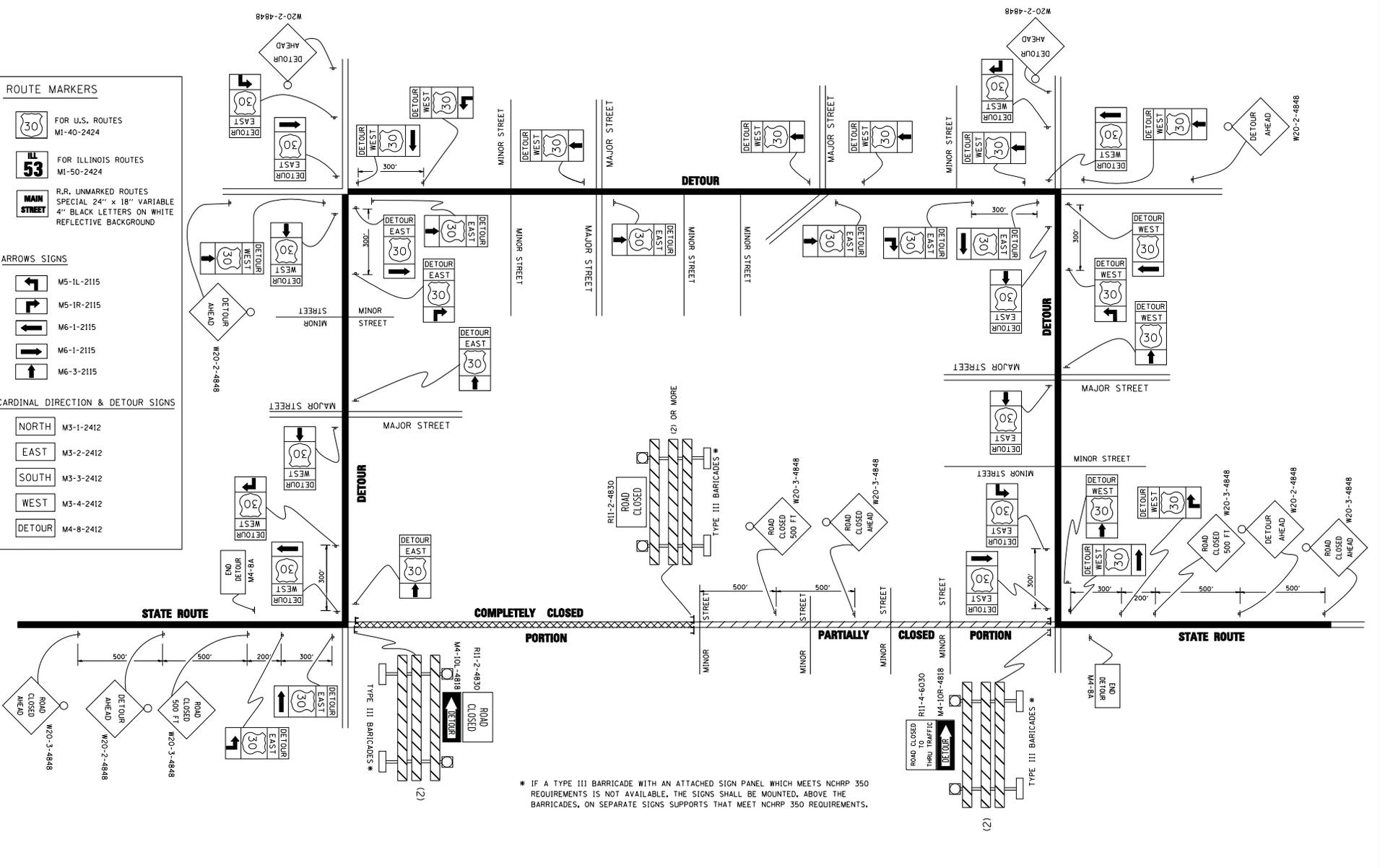
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

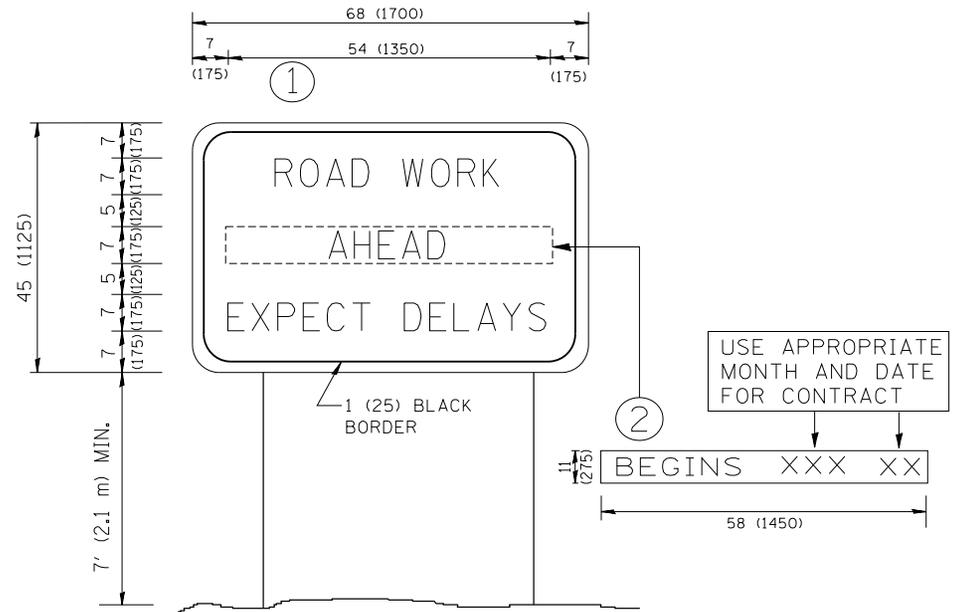
WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

| | | | | | | | | | | | | | |
|--|------------------------------|------------|----------------------------|---|--|--|-------------|---------|--------|--------------|---|-------|--------------|
| FILE NAME * | USER NAME * drivakosgn | DESIGNED - | REVISED - 10-18-02 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETOUR SIGNING FOR CLOSING STATE HIGHWAYS | | F.A. RFE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
| et:\pwwork\p\1001\DRIVAKOSGN\081883151 | 21.dgn | DRAWN - | REVISED - R, BORO 09-14-09 | | SCALE: NONE | | SHEET NO. 1 | OF 1 | SHEETS | STA. | TO STA. | TC-21 | CONTRACT NO. |
| | PLOT SCALE = 49,99999' / IN. | CHECKED - | REVISED - | | SHEET NO. 1 | | | | | | FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT | | |
| | PLOT DATE = 9/14/2009 | DATE - | REVISED - | | SHEET NO. 1 | | | | | | CONTRACT NO. | | |



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

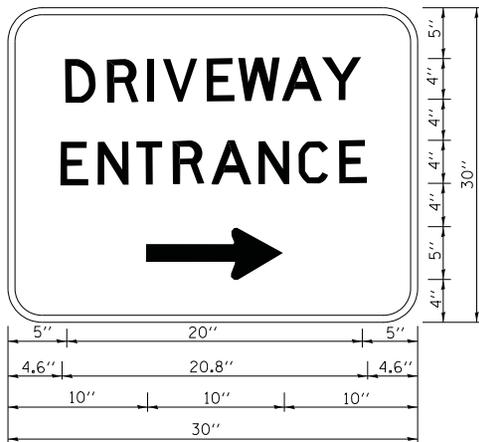
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| | | | |
|---|---------------------------|---------------------------------|--|
| FILE NAME * M:\dist\std\22-34\to22.dgn | USER NAME * gag1tenob1 | DESIGNED - DRAWN - | REVISED - R. MIRS 09-15-97 REVISED - R. MIRS 12-11-97 |
| PLOT SCALE * 50.000 "/ IN. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 | REVISED - C. JUCIUS 01-31-07 |
| PLOT DATE * 1/4/2008 | DATE - | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

| | | | | |
|---|---------|--------------|--------------|-----------|
| P.A. SITE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| TC-22 | | CONTRACT NO. | | |
| FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT | | | | |
| SHEET NO. 1 | OF 1 | SHEETS | STA. | TO STA. |



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

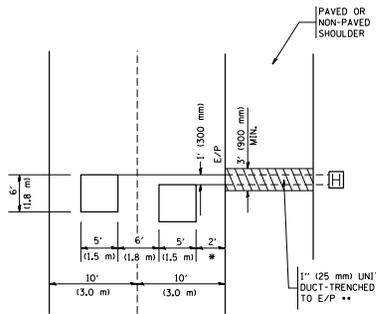
| | | | |
|--|-----------------------|-----------------------------|------------------------------|
| FILE NAME = | USER NAME = gegltenob | DESIGNED - | REVISED - C. JUCIUS 02-15-07 |
| ca\pawork\pawdot\gegltenob\1080315\1080315.dgn | | DRAWN - | REVISED - |
| | | PLOT SCALE = 50.000 ' / in. | CHECKED - |
| | | PLOT DATE = 12/13/2012 | DATE - |
| | | | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | | | | | | | | |
|---|-------------------------|------|---------|-----------|---------|--------------|--------------|-----------|
| DRIVEWAY ENTRANCE SIGNING | | | | P.A. DATE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | TC-26 | | CONTRACT NO. | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | | | |

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

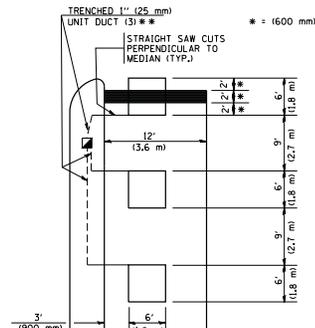


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

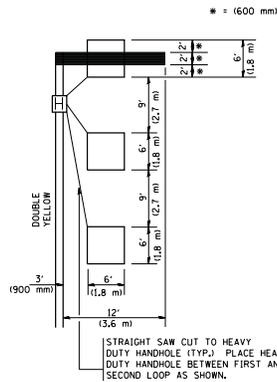
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

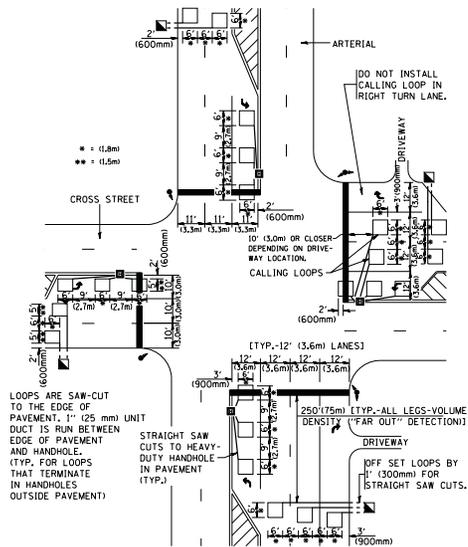
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**



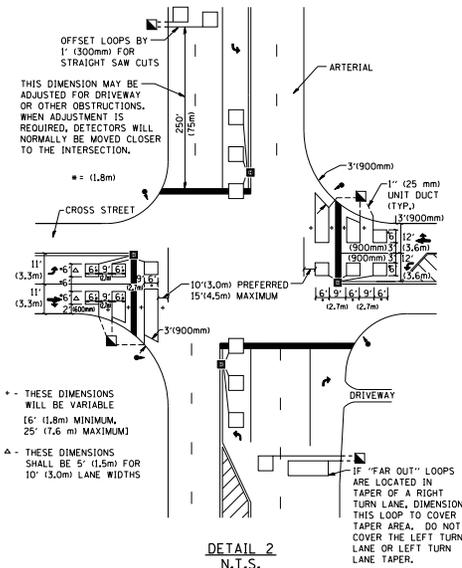
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

| | | | |
|--------------------------------------|-------------------------|-------------------|--------------|
| FILE NAME M:\dist1\22-34\1487.dgn | USER NAME gag1stn001 | DESIGNED - | REVISED - |
| PLOT SCALE = 50.0000 / 1 IN. | DRAWN - | CHECKED R.K.F. | REVISED - |
| PLOT DATE = 1/4/2008 | DATE - | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|---------|--------|---------------------|-----------|
| P.A. FILE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | | |
| TS-07 | | | CONTRACT NO. | |
| FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT | | | | |

| | | | | | | | | | |
|-----------------|-------------------------------|--------|---------------------------------------|--------|---|-----------------|---|-----------|--------------------------------|
| ABV | ABOVE | CU YD | CUBIC YARD | HD | HEAD | PED | PEDESTAL | STD | STANDARD |
| A/C | ACCESS CONTROL | CULV | CULVERT | HDW | HEADWALL | PNT | POINT | SBI | STATE BOND ISSUE |
| AC | ACRE | C&G | CURB & GUTTER | HDUTY | HEAVY DUTY | PC | POINT OF INTERSECTION | SR | STATE ROUTE |
| ADJ | ADJUST | D | DEGREE OF CURVE | hd | HECTARE | PI | POINT OF INTERSECTION OF HORIZONTAL CURVE | STA | STATION |
| AS | AERIAL SURVEYS | DC | DEPRESSED CURVE | HMA | HOT MIX ASPHALT | PRC | POINT OF REVERSE CURVE | SPBGR | STEEL PLATE BEAM GUARDRAIL |
| AGG | AGGREGATE | DET | DETECTOR | HWY | HIGHWAY | PT | POINT OF TANGENCY | SS | STORM SEWER |
| AH | AHEAD | DIA | DIAMETER | HORIZ | HORIZONTAL | POT | POINT ON TANGENT | ST | STORY |
| APT | APARTMENT | DIST | DISTRICT | HSE | HOUSE | POLYETH | POLYETHYLENE | STR | STRUCTURE |
| ASPH | ASPHALT | DOM | DOMESTIC | IL | ILLINOIS | PCC | PORTLAND CEMENT CONCRETE | e | SUPERELEVATION RATE |
| AUX | AUXILIARY | DBL | DOUBLE | IMP | IMPROVEMENT | PP | POWER POLE OR PRINCIPAL POINT | S.E. RUN. | SUPERELEVATION RUNOFF LENGTH |
| AGS | AUXILIARY GAS VALVE (SERVICE) | DSEL | DOWNSTREAM ELEVATION | IN DIA | INCH DIAMETER | PRM | PRIME | SURF | SURFACE |
| AVE | AVENUE | DSFL | DOWNSTREAM FLOWLINE | INL | INLET | PE | PRIVATE ENTRANCE | SMK | SURVEY MARKER |
| AX | AXIS OF ROTATION | DR | DRAINAGE OR DRIVE | INST | INSTALLATION | PF | PROFILE | T | TANGENT DISTANCE |
| BK | BACK | DJ | DRAINAGE INLET OR DROP INLET | IDS | INTERSECTION DESIGN STUDY | PGL | PROFILE GRADELINE | T.R. | TANGENT RUNOUT DISTANCE |
| B-B | BACK TO BACK | DRV | DRIVEWAY | INV | INVERT | PROJ | PROJECT | TEL | TELEPHONE |
| BKPL | BACKPLATE | DCT | DUCT | IP | IRON PIPE | P.C. | PROPERTY CORNER | TB | TELEPHONE BOX |
| B | BARN | EA | EACH | IR | IRON ROD | PL | PROPERTY LINE | TP | TELEPHONE POLE |
| BARR | BARRICADE | EB | EASTBOUND | JT | JOINT | PR | PROPOSED | TEMP | TEMPORARY |
| BCN | BEGIN | EOP | EDGE OF PAVEMENT | kg | KILOGRAM | R | RADIUS | TBM | TEMPORARY BENCH MARK |
| BM | BENCHMARK | E-CL | EDGE TO CENTERLINE | km | KILOMETER | RR | RAILROAD | TD | TILE DRAIN |
| BIND | BINDER | E-E | EDGE TO EDGE | LS | LANDSCAPING | RRS | RAILROAD SPIKE | TBE | TO BE EXTENDED |
| BIT | BITUMINOUS | EL | ELEVATION | LN | LANE | RPS | REFERENCE POINT STAKE | TBR | TO BE REMOVED |
| BTM | BOTTOM | ENTR | ENTRANCE | LT | LEFT | REF | REFLECTIVE | TBS | TO BE SAVED |
| BLVD | BOULEVARD | EXC | EXCAVATION | LP | LIGHT POLE | RCCP | REINFORCED CONCRETE CULVERT PIPE | TWP | TOWNSHIP |
| BRK | BRICK | EX | EXISTING | LG | LIGHTING | REINF | REINFORCEMENT | TR | TOWNSHIP ROAD |
| BBOX | BUFFALO BOX | EXPWAY | EXPRESSWAY | LF | LINEAL FEET OR LINEAR FEET | REM | REMOVAL | TS | TRAFFIC SIGNAL |
| BLDG | BUILDING | E | EXTERNAL DISTANCE OF HORIZONTAL CURVE | L | LITER OR CURVE LENGTH | RC | REMOVE CROWN | TSCB | TRAFFIC SIGNAL CONTROL BOX |
| CIP | CAST IRON PIPE | E | OFFSET DISTANCE TO VERTICAL CURVE | LC | LONG CHORD | REP | REPLACEMENT | TSC | TRAFFIC SYSTEMS CENTER |
| CB | CATCH BASIN | F-F | FACE TO FACE | LNG | LONGITUDINAL | REST | RESTAURANT | TRVS | TRANSVERSE |
| C-C | CENTER TO CENTER | FA | FEDERAL AID | L SUM | LUMP SUM | RESURF | RESURFACING | TRVL | TRAVEL |
| CL | CENTERLINE OR CLEARANCE | FAI | FEDERAL AID INTERSTATE | MACH | MACHINE | RET | RETAINING | TRN | TURN |
| CL-E | CENTERLINE TO EDGE | FAP | FEDERAL AID PRIMARY | MB | MAIL BOX | RT | RIGHT | TY | TYPE |
| CL-F | CENTERLINE TO FACE | FAS | FEDERAL AID SECONDARY | MH | MANHOLE | ROW | RIGHT-OF-WAY | T-A | TYPE A |
| CTS | CENTERS | FAUS | FEDERAL AID URBAN SECONDARY | MATL | MATERIAL | RD | ROAD | TYP | TYPICAL |
| CERT | CERTIFIED | FP | FENCE POST | MED | MEDIAN | RDWY | ROADWAY | UNDGND | UNDERGROUND |
| CHSLD | CHISELED | FE | FIELD ENTRANCE | METH | METHOD | RTE | ROUTE | USGS | U.S. GEOLOGICAL SURVEY |
| CS | CITY STREET | FL | FLOW LINE | M | MID-ORDINATE | SAN | SANITARY | USEL | UPSTREAM ELEVATION |
| CP | CLAY PIPE | FB | FOOT BRIDGE | mm | MILLIMETER | SANS | SANITARY SEWER | USFL | UPSTREAM FLOWLINE |
| CLSD | CLOSED | FDN | FOUNDATION | mm DIA | MILLIMETER DIAMETER | SEC | SECTION | UTIL | UTILITY |
| CLID | CLOSED LID | FR | FRAME | MIX | MIXTURE | SEED | SEEDING | VBOX | VALVE BOX |
| CT | COAT OR COURT | F&G | FRAME & GRATE | MBH | MOBILE HOME | SHAP | SHAPING | VV | VALVE VAULT |
| COMB | COMBINATION | FRWAY | FREEWAY | MOD | MODIFIED | S | SHED | VLT | VAULT |
| C | COMMERCIAL BUILDING | GAL | GALLON | MFT | MOTOR FUEL TAX | SH | SHEET | VEH | VEHICLE |
| CE | COMMERCIAL ENTRANCE | GALV | GALVANIZED | N & BC | NAIL & BOTTLE CAP | SHLD | SHOULDER | VP | VENT PIPE |
| CONC | CONCRETE | G | GARAGE | N & C | NAIL & CAP | SW | SIDEWALK OR SOUTHWEST | VERT | VERTICAL |
| CONST | CONSTRUCT | GM | GAS METER | N & W | NAIL & WASHER | SIG | SIGNAL | VC | VERTICAL CURVE |
| CONTD | CONTINUED | GV | GAS VALVE | NOAA | NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION | SOD | SODDING | VPC | VERTICAL POINT OF CURVATURE |
| CONT | CONTINUOUS | GRAN | GRANULAR | NC | NORMAL CROWN | SM | SOLID MEDIUM | VPI | VERTICAL POINT OF INTERSECTION |
| COR | CORNER | GR | GRATE | NB | NORTHBOUND | SB | SOUTHBOUND | VPT | VERTICAL POINT OF TANGENCY |
| CORR | CORRUGATED | GRVL | GRAVEL | NE | NORTHEAST | SE | SOUTHEAST | WM | WATER METER |
| CMP | CORRUGATED METAL PIPE | GND | GROUND | NW | NORTHWEST | SPL | SPECIAL | WV | WATER VALVE |
| CNTY | COUNTY | GUT | GUTTER | OLID | OPEN LID | SD | SPECIAL DITCH | WMMAIN | WATER MAIN |
| CH | COUNTY HIGHWAY | GP | GUY POLE | PAT | PATTERN | SO FT | SQUARE FEET | WB | WESTBOUND |
| CSE | COURSE | GW | GUY WIRE | PVD | PAVED | m ² | SQUARE METER | WBDFL | WESTFLOWERS |
| XSECT | CROSS SECTION | HH | HANDHOLE | PVMT | PAVEMENT | mm ² | SQUARE MILLIMETER | W | WITH |
| m ³ | CUBIC METER | HATCH | HATCHING | PM | PAVEMENT MARKING | SO YD | SQUARE YARD | WO | WITHOUT |
| mm ³ | CUBIC MILLIMETER | | | | | STB | STABILIZED | | |

| | |
|---------------------------------------|-----------------|
| Illinois Department of Transportation | |
| PASSED | January 1, 2011 |
| <i>Michael Beard</i> | |
| ENGINEER OF POLICY AND PROCEDURES | |
| APPROVED | January 1, 2011 |
| <i>Scott Smith</i> | |
| ENGINEER OF DESIGN AND ENVIRONMENT | |

ISSUED 1-1-97

| DATE | REVISIONS |
|--------|------------------------------------|
| 1-1-11 | Updated abbreviations and symbols. |
| 1-1-08 | Updated abbreviations and symbols. |

**STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS**

(Sheet 1 of 8)

STANDARD 000001-06

| ADJUSTMENT ITEMS | | EX | PR | ALIGNMENT ITEMS | | EX | PR | CONTOUR ITEMS | | EX | PR |
|---------------------------------------|--|-----------|-----------|--------------------------------------|-----------|---|---|---------------------------|-------------------------|-----------|-----------|
| Structure To Be Adjusted | | | ADJ | Baseline | | | | Approx. Index Line | | | |
| Structure To Be Cleaned | | | C | Centerline | | | | Approx. Intermediate Line | | | |
| Main Structure To Be Filled | | | FM | Centerline Break Circle | | o | o | Index Contour | | | |
| Structure To Be Filled | | | F | Baseline Symbol | | | | Intermediate Contour | | | |
| Structure To Be Filled Special | | | FSP | Centerline Symbol | | | | DRAINAGE ITEMS | EX | PR | |
| Structure To Be Removed | | | R | PI Indicator | | △ | △ | Channel or Stream Line | | | |
| Structure To Be Reconstructed | | | REC | Point Indicator | | o | o | Culvert Line | | | |
| Structure To Be Reconstructed Special | | | RSP | Horizontal Curve Data (Half Size) | | CURVE P.I. STA= ΔS= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA= | CURVE P.I. STA= ΔS= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA= | Grading & Shaping Ditches | | | |
| Frame and Grate To Be Adjusted | | | A | BOUNDARIES ITEMS | EX | PR | | | Drainage Boundary Line | | |
| Frame and Lid To Be Adjusted | | | A | Dashed Property Line | | - - - - - | | | Paved Ditch | | |
| Domestic Service Box To Be Adjusted | | | A | Solid Property/Lot Line | | _____ | | | Aggregate Ditch | | |
| Valve Vault To Be Adjusted | | | A | Section/Grant Line | | - - - - - | | | Pipe Underdrain | | |
| Special Adjustment | | | SP | Quarter Section Line | | - - - - - | | | Storm Sewer | | |
| Item To Be Abandoned | | | AB | Quarter/Quarter Section Line | | - - - - - | | | Flowline | | |
| Item To Be Moved | | | M | County/Township Line | | - - - - - | | | Ditch Check | | |
| Item To Be Relocated | | | REL | State Line | | - - - - - | | | Headwall | | |
| Pavement Removal and Replacement | | | | Iron Pipe Found | | o | o | | Inlet | | |
| | | | | Iron Pipe Set | | • | • | | Manhole | | |
| | | | | Survey Marker | | | | | Summit | | |
| | | | | Property Line Symbol | | | | | Roadway Ditch Flow | | |
| | | | | Same Ownership Symbol (Half Size) | | | | | Swale | | |
| | | | | Northwest Quarter Corner (Half Size) | | | | | Catch Basin | | |
| | | | | Section Corner (Half Size) | | | | | Culvert End Section | | |
| | | | | Southeast Quarter Corner (Half Size) | | | | | Water Surface Indicator | | |
| | | | | | | | | | Riprap | | |

**STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS**

(Sheet 2 of 8)

STANDARD 000001-06

Illinois Department of Transportation

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Michael Beard

APPROVED January 1, 2011

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

| <u>EROSION & SEDIMENT CONTROL ITEMS</u> | | <u>EX</u> | <u>PR</u> | <u>NON-HIGHWAY IMPROVEMENT ITEMS</u> | | <u>EX</u> | <u>PR</u> | <u>EXISTING LANDSCAPING ITEMS (contd.)</u> | | <u>EX</u> | <u>PR</u> |
|---|--|-----------|-----------|--------------------------------------|--|-----------|-----------|--|--|-----------|-----------|
| Cleaning & Grading Limits | | | | Noise Attn./Levee | | | | Seeding Class 5 | | | |
| Dike | | | | Field Line | | | | Seeding Class 7 | | | |
| Erosion Control Fence | | | | Fence | | | | Seedlings Type 1 | | | |
| Perimeter Erosion Barrier | | | | Base of Levee | | | | Seedlings Type 2 | | | |
| Temporary Fence | | | | Mailbox | | | | Sodding | | | |
| Ditch Check Temporary | | | | Multiple Mailboxes | | | | Mowstake w/Sign | | | |
| Ditch Check Permanent | | | | Pay Telephone | | | | Tree Trunk Protection | | | |
| Inlet & Pipe Protection | | | | Advertising Sign | | | | Evergreen Tree | | | |
| Sediment Basin | | | | | | | | Shade Tree | | | |
| Erosion Control Blanket | | | | <u>LANDSCAPING ITEMS</u> | | <u>EX</u> | <u>PR</u> | | | | |
| Fabric Formed Concrete Revetment Mat | | | | Contour Mounding Line | | | | | | | |
| Turf Reinforcement Mat | | | | Fence | | | | | | | |
| Mulch Temporary | | | | Fence Post | | | | | | | |
| Mulch Method 1 | | | | Shrubs | | | | | | | |
| Mulch Method 2 Stabilized | | | | Mowline | | | | | | | |
| Mulch Method 3 Hydraulic | | | | Perennial Plants | | | | | | | |
| | | | | Seeding Class 2 | | | | | | | |
| | | | | Seeding Class 2A | | | | | | | |
| | | | | Seeding Class 4 | | | | | | | |
| | | | | Seeding Class 4 & 5 Combined | | | | | | | |
| | | | | | | | | <u>LIGHTING</u> | | <u>EX</u> | <u>PR</u> |
| | | | | | | | | Duct | | | |
| | | | | | | | | Conduit | | | |
| | | | | | | | | Electrical Aerial Cable | | | |
| | | | | | | | | Electrical Buried Cable | | | |
| | | | | | | | | Controller | | | |
| | | | | | | | | Underpass Luminaire | | | |
| | | | | | | | | Power Pole | | | |

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STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 (Sheet 3 of 8)
 STANDARD 000001-06

**LIGHTING
(contd.)**

| | EX | PR |
|----------------------------|-----------|-----------|
| Pull Point | | |
| Handhole | | |
| Heavy Duty Handhole | | |
| Junction Box | | |
| Light Unit Comb. | | |
| Electrical Ground | | |
| Traffic Flow Arrow | | |
| High Mast Pole (Half Size) | | |
| Light Unit-1 | | |

PAVEMENT (MISC.)

| | EX | PR |
|------------------------------|-----------|-----------|
| Keyed Long, Joint | | |
| Keyed Long, Joint w/Tie Bars | | |
| Sawed Long, Joint w/Tie Bars | | |
| Bituminous Shoulder | | |
| Bituminous Taper | | |
| Stabilized Driveway | | |
| Widening | | |

PAVEMENT MARKINGS

| | EX | PR |
|--|-----------|-----------|
| Bike Lane Symbol | | |
| Bike Lane Text | | |
| Handicap Symbol | | |
| RR Crossing | | |
| Raised Marker Amber 1 Way | | |
| Raised Marker Amber 2 Way | | |
| Raised Marker Crystal 1 Way | | |
| Two Way Turn Left | | |
| Shoulder Diag. Pattern | | |
| Skip-Dash White | | |
| Skip-Dash Yellow | | |
| Stop Line | | |
| Solid Line | | |
| Double Centerline | | |
| Dotted Lines | | |
| CL 2Ln 2Way RRPM 12.2 m (40') o.c. | | |
| CL 2Ln 2Way RRPM 80' (24.4 m) o.c. | | |
| CL Multilane Div. RRPM 40' (12.2 m) o.c. | | |
| CL Multilane Div. RRPM 80' (24.4 m) o.c. | | |
| CL Multilane Div. Dbl. RRPM 80' (24.4 m) o.c. | | |
| CL Multilane Undiv. | | |
| Two Way Turn Left Line | | |

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**STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS**

(Sheet 4 of 8)

STANDARD 000001-06

PAVEMENT MARKINGS

(contd.)

Urban Combination Left

EX



Urban Combination Right



Urban Left Turn Arrow



Urban Right Turn Arrow



Urban Left Turn Only

ONLY ONLY ONLY



Urban Right Turn Only



Urban Thru Only



Urban U-Turn



Urban Combined U-Turn



Rural Combination Left



Rural Combination Right



Rural Left Turn Arrow



Rural Right Turn Arrow



Rural Left Turn Only

ONLY ONLY ONLY



Rural Right Turn Only



Rural Thru Only



ONLY ONLY ONLY

ONLY ONLY ONLY

PR



RAILROAD ITEMS

EX

PR

Abandoned Railroad



Railroad



Railroad Point



Control Box



Crossing Gate



Flashing Signal



Railroad Cant. Mast Arm



Crossbuck



REMOVAL ITEMS

EX

PR

Removal Tic



Bituminous Removal



Hatch Pattern



Tree Removal Single



RIGHT OF WAY ITEMS

EX

PR

Future ROW Corner Monument



ROW Marker



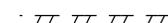
ROW Line



Easement



Temporary Easement



**STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS**

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STANDARD 000001-06

| | |
|--|---------------------|
| Illinois Department of Transportation | |
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| APPROVED <u>January 1, 2011</u> <i>Spencer</i> ENGINEER OF DESIGN AND ENVIRONMENT | |

**RIGHT OF WAY ITEMS
(contd.)**

| | EX | PR |
|--------------------------------------|------------|------------|
| Access Control Line | — AC ————— | — AC ————— |
| Access Control Line & ROW | — AC ————— | — AC ————— |
| Access Control Line & ROW with Fence | — AR ————— | — AC ————— |
| Excess ROW Line | | — XS ————— |

**ROADWAY PLAN
ITEMS**

| | EX | PR |
|--|-------------------|-------------------|
| Cable Barrier | — ○ — ○ — ○ — ○ — | — ■ — ■ — ■ — ■ — |
| Concrete Barrier | — — — — — | — — — — — |
| Edge of Pavement | — — — — — | — — — — — |
| Bit Shoulders, Medians and C&G Line | — — — — — | — — — — — |
| Aggregate Shoulder | — — — — — | — — — — — |
| Sidewalks, Driveways | — — — — — | — — — — — |
| Guardrail | — □ — □ — □ — □ — | — ■ — ■ — ■ — ■ — |
| Guardrail Post | ○ | ○ |
| Traffic Sign | ⊥ | ⊥ |
| Corrugated Median | ▤ ▤ ▤ ▤ ▤ | ▤ ▤ ▤ ▤ ▤ |
| Impact Attenuator | | ○ ○ ○ ○ ○ |
| North Arrow with District Office (Half Size) | N ↓ A | |
| Match Line | | STA. 45+00 |
| Slope Limit Line | — — — — — | |
| Typical Cross-Section Line | — — — — — | — — — — — |

ROADWAY PROFILES

| | EX | PR |
|--------------------------------|--------------------------|--------------------------|
| P.I. Indicator | △ | △ |
| Point Indicator | ○ | ○ |
| Earthworks Balance Point | | ⊙ |
| Begin Point | | ⊖ |
| Vert. Curve Data | VPI = ELEV = L E = | VPI = ELEV = L E = |
| Ditch Profile Left Side | — — — — — | — — — — — |
| Ditch Profile Right Side | — — — — — | — — — — — |
| Roadway Profile Line | — — — — — | — — — — — |
| Storm Sewer Profile Left Side | — — — — — | — — — — — |
| Storm Sewer Profile Right Side | — — — — — | — — — — — |

SIGNING ITEMS

| | EX | PR |
|--------------------------|----|-------|
| Cone, Drum or Barricade | | ○ |
| Barricade Type II | ▨ | ⊥ |
| Barricade Type III | | ⊥ |
| Barricade With Edge Line | | — ○ — |
| Flashing Light Sign | | ○ |
| Panels I | | ▨ |
| Panels II | | ▨ |
| Direction of Traffic | | ➔ |
| Sign Flag (Half Size) | | ◇ |

**SIGNING ITEMS
(contd.)**

| | EX | PR |
|---|----|----|
| Reverse Left W1-4L (Half Size) | | ⬇ |
| Reverse Right W1-4R (Half Size) | | ⬆ |
| Two Way Traffic Sign W6-3 (Half Size) | | ⬆⬆ |
| Detour Ahead W20-2(0) (Half Size) | | ⬆ |
| Left Lane Closed Ahead W20-5L(0) (Half Size) | | ⬆ |
| Right Lane Closed Ahead W20-5R(0) (Half Size) | | ⬆ |
| Road Closed Ahead W20-3(0) (Half Size) | | ⬆ |
| Road Construction Ahead W20-1(0) (Half Size) | | ⬆ |
| Single Lane Ahead (Half Size) | | ⬆ |
| Transition Left W4-2L (Half Size) | | ⬆ |
| Transition Right W4-2R (Half Size) | | ⬆ |

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**STANDARD SYMBOLS,
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(Sheet 6 of 8)

STANDARD 000001-06

SIGNING ITEMS
(contd.)

EX

PR

One Way Arrow Lrg. W1-6-(O)
(Half Size)



Two Way Arrow Large W1-7-(O)
(Half Size)



Detour M4-10L-(O)
(Half Size)



Detour M4-10R-(O)
(Half Size)



One Way Left R6-1L
(Half Size)



One Way Right R6-1R
(Half Size)



Left Turn Lane R3-1100L
(Half Size)



Keep Left R4-7AL
(Half Size)



Keep Left R4-7BL
(Half Size)



Keep Right R4-7AR
(Half Size)



Keep Right R4-7BR
(Half Size)



Stop Here On Red R10-6-AL
(Half Size)



Stop Here On Red R10-6-AR
(Half Size)



No Left Turn R3-2
(Half Size)



No Right Turn R3-1
(Half Size)



Road Closed R11-2
(Half Size)



Road Closed Thru Traffic R11-2
(Half Size)



STRUCTURES ITEMS

EX

PR

Box Culvert Barrel



Box Culvert Headwall



Bridge Pier



Bridge



Retaining Wall



Temporary Sheet Piling



TRAFFIC SHEET
ITEMS

EX

PR

Cable Number



Left Turn Green



Left Turn Yellow



Signal Backplate



Signal Section 8" (200 mm)



Signal Section 12" (300 mm)



Walk/Don't Walk Letters



Walk/Don't Walk Symbols



TRAFFIC SIGNAL
ITEMS

EX

PR

Galv. Steel Conduit



Underground Cable



Detector Loop Line



Detector Loop Large



Detector Loop Small



Detector Loop Quadrapole



Illinois Department of Transportation

PASSED January 1, 2011

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2011

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS**

(Sheet 7 of 8)

STANDARD 000001-06

| TRAFFIC SIGNAL ITEMS (contd.) | EX | PR |
|--------------------------------------|-----------|-----------|
| Detector Raceway | | |
| Aluminum Mast Arm | | |
| Steel Mast Arm | | |
| Veh. Detector Magnetic | | |
| Conduit Splice | | |
| Controller | | |
| Gulfbox Junction | | |
| Wood Pole | | |
| Temp. Signal Head | | |
| Handhole | | |
| Double Handhole | | |
| Heavy Duty Handhole | | |
| Junction Box | | |
| Ped. Pushbutton Detector | | |
| Ped. Signal Head | | |
| Power Pole Service | | |
| Priority Veh. Detector | | |
| Signal Head | | |
| Signal Head w/Backplate | | |
| Signal Post | | |
| Closed Circuit TV | | |
| Video Detector System | | |

| UNDERGROUND UTILITY ITEMS | EX | PR | ABANDONED |
|----------------------------------|-----------|-----------|------------------|
| Cable TV | | | |
| Electric Cable | | | |
| Fiber Optic | | | |
| Gas Pipe | | | |
| Oil Pipe | | | |
| Sanitary Sewer | | | |
| Telephone Cable | | | |
| Water Pipe | | | |

| UTILITIES ITEMS | EX | PR |
|-----------------------------------|-----------|-----------|
| Controller | | |
| Double Handhole | | |
| Fire Hydrant | | |
| GuyWire or Deadman Anchor | | |
| Handhole | | |
| Heavy Duty Handhole | | |
| Junction Box | | |
| Light Pole | | |
| Manhole | | |
| Pipeline Warning Sign | | |
| Power Pole | | |
| Power Pole with Light | | |
| Sanitary Sewer Cleanout | | |
| Splice Box Above Ground | | |
| Telephone Splice Box Above Ground | | |
| Telephone Pole | | |

| UTILITY ITEMS (contd.) | EX | PR |
|-------------------------------|-----------|-----------|
| Traffic Signal | | |
| Traffic Signal Control Box | | |
| Water Meter | | |
| Water Meter Valve Box | | |
| Profile Line | | |
| Aerial Power Line | | |

| VEGETATION ITEMS | EX | PR |
|-------------------------|-----------|-----------|
| Deciduous Tree | | |
| Bush or Shrub | | |
| Evergreen Tree | | |
| Stump | | |
| Orchard/Nursery Line | | |
| Vegetation Line | | |
| Woods & Bush Line | | |

| WATER FEATURE ITEMS | EX | PR |
|----------------------------|-----------|-----------|
| Stream or Drainage Ditch | | |
| Waters Edge | | |
| Water Surface Indicator | | |
| Water Point | | |
| Disappearing Ditch | | |
| Marsh | | |
| Marsh/Swamp Boundary | | |

Illinois Department of Transportation

PASSED January 1, 2011

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2011

ENGINEER OF DESIGN AND ENVIRONMENT

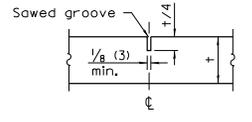
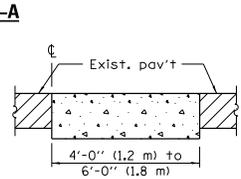
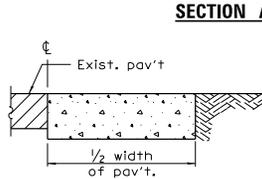
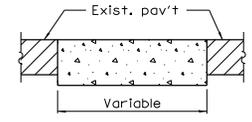
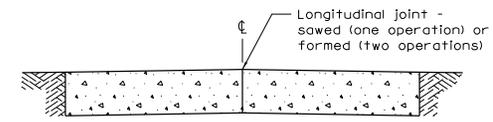
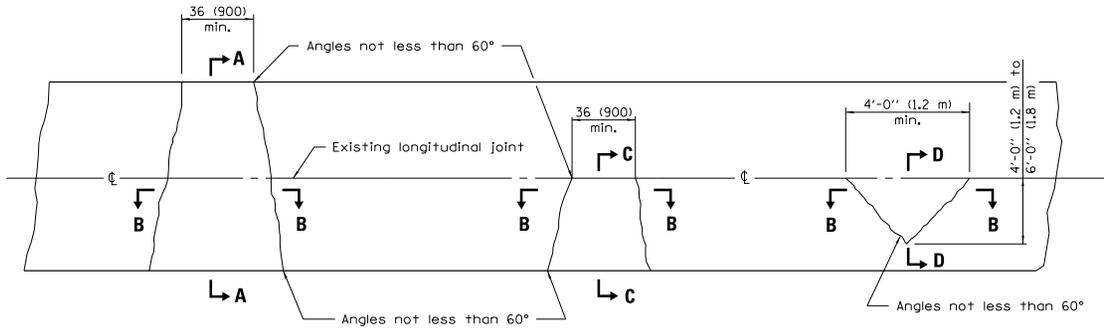
ISSUED 1-1-97

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 8 of 8)

STANDARD 000001-06

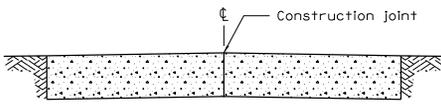
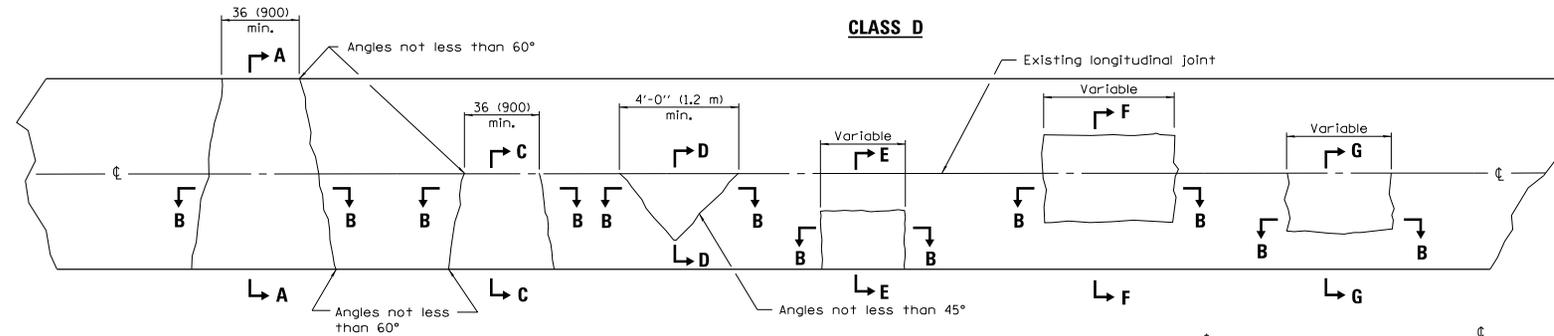
CLASS C



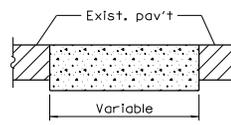
DETAIL OF SAWED CONTRACTION JOINT

Note:
Longitudinal joints shall be as detailed on Standard 420001, except tie bars are not required for patches 20'-0" (6.0 m) or less in length.

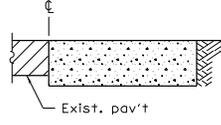
CLASS D



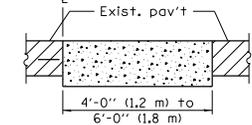
SECTION A-A
(Built in two operations)



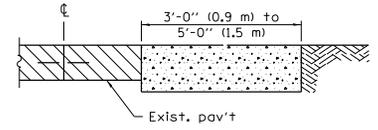
SECTION B-B



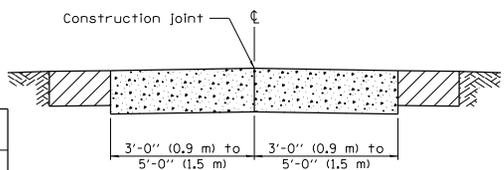
SECTION C-C



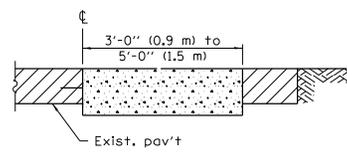
SECTION D-D



SECTION E-E



SECTION F-F
(Built in two operations)



SECTION G-G

GENERAL NOTES

Existing tie bars shall be either cut or removed. Marginal bars shall be cut.

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|-------------------------------------|
| 1-1-08 | Switched units to English (metric). |
| 1-1-07 | Revised Note for Class C patches. |

CLASS C and D PATCHES

STANDARD 442201-03

Illinois Department of Transportation

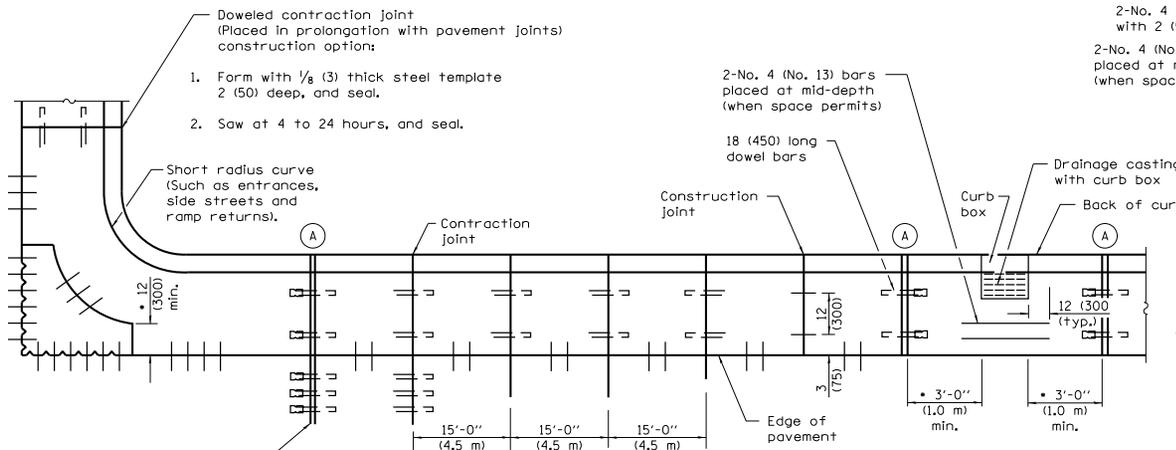
PASSED January 1, 2008

ENGINEER OF POLICY AND PROCEDURES

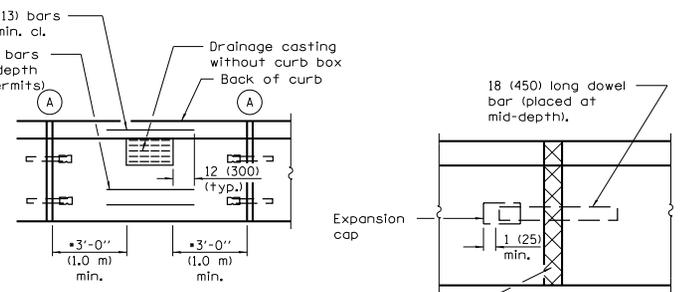
APPROVED January 1, 2008

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 481-1-1-08

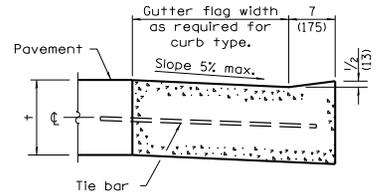


PLAN
ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

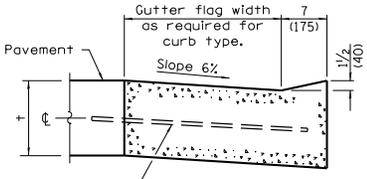


DETAIL (A)
EXPANSION JOINT

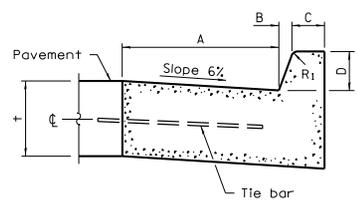
Full depth & width 1 (25) + thick (min.) preformed expansion joint filler.



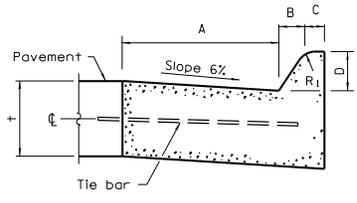
DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED



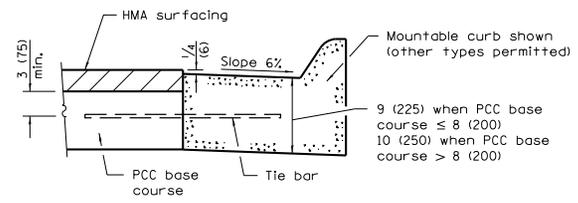
DEPRESSED CURB (TYPICAL)



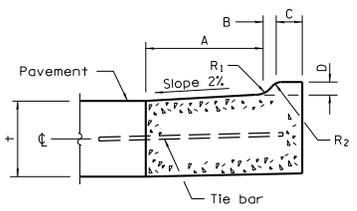
BARRIER CURB



MOUNTABLE CURB



ADJACENT TO PCC BASE COURSE WITH HMA SURFACING



M-2.06 (M-5.15) and M-2.12 (M-5.30)

| TABLE OF DIMENSIONS BARRIER CURB | | | | | |
|----------------------------------|-------|------|-------|-------|----------------|
| TYPE | A | B | C | D | R ₁ |
| B-6.06* | 6 | 1 | 6 | 6 | 1 |
| (B-15.15) | (150) | (25) | (150) | (150) | (25) |
| B-6.12 | 12 | 1 | 6 | 6 | 1 |
| (B-15.3) | (300) | (25) | (150) | (150) | (25) |
| B-6.18 | 18 | 1 | 6 | 6 | 1 |
| (B-15.45) | (450) | (25) | (150) | (150) | (25) |
| B-6.24 | 24 | 1 | 6 | 6 | 1 |
| (B-15.60) | (600) | (25) | (150) | (150) | (25) |
| B-9.12 | 12 | 2 | 5 | 9 | 1 |
| (B-22.30) | (300) | (50) | (125) | (225) | (25) |
| B-9.18 | 18 | 2 | 5 | 9 | 1 |
| (B-22.45) | (450) | (50) | (125) | (225) | (25) |
| B-9.24 | 24 | 2 | 5 | 9 | 1 |
| (B-22.60) | (600) | (50) | (125) | (225) | (25) |

* For corner islands only.

| TABLE OF DIMENSIONS MOUNTABLE CURB | | | | | | |
|------------------------------------|-------|-------|-------|-------|----------------|----------------|
| TYPE | A | B | C | D | R ₁ | R ₂ |
| M-2.06 | 6 | 2 | 4 | 2 | 3 | 2 |
| (M-5.15) | (150) | (50) | (100) | (50) | (75) | (50) |
| M-2.12 | 12 | 2 | 4 | 2 | 3 | 2 |
| (M-5.30) | (300) | (50) | (100) | (50) | (75) | (50) |
| M-4.06 | 6 | 4 | 3 | 4 | 3 | NA |
| (M-10.15) | (150) | (100) | (75) | (100) | (75) | |
| M-4.12 | 12 | 4 | 3 | 4 | 3 | NA |
| (M-10.30) | (300) | (100) | (75) | (100) | (75) | |
| M-4.18 | 18 | 4 | 3 | 4 | 3 | NA |
| (M-10.45) | (450) | (100) | (75) | (100) | (75) | |
| M-4.24 | 24 | 4 | 3 | 4 | 3 | NA |
| (M-10.60) | (600) | (100) | (75) | (100) | (75) | |
| M-6.06 | 6 | 6 | 2 | 6 | 2 | NA |
| (M-15.15) | (150) | (150) | (50) | (150) | (50) | |
| M-6.12 | 12 | 6 | 2 | 6 | 2 | NA |
| (M-15.30) | (300) | (150) | (50) | (150) | (50) | |
| M-6.18 | 18 | 6 | 2 | 6 | 2 | NA |
| (M-15.45) | (450) | (150) | (50) | (150) | (50) | |
| M-6.24 | 24 | 6 | 2 | 6 | 2 | NA |
| (M-15.60) | (600) | (150) | (50) | (150) | (50) | |

GENERAL NOTES

The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 24 (600) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|--|
| 1-1-15 | Added B-6.06 (B-15.15) barrier curb and gutter to table (corner islands only). |
| 1-1-13 | Added general note regarding requirement for dowel bars. |

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

(Sheet 1 of 2)

STANDARD 606001-06

Illinois Department of Transportation

PASSED January 1, 2015

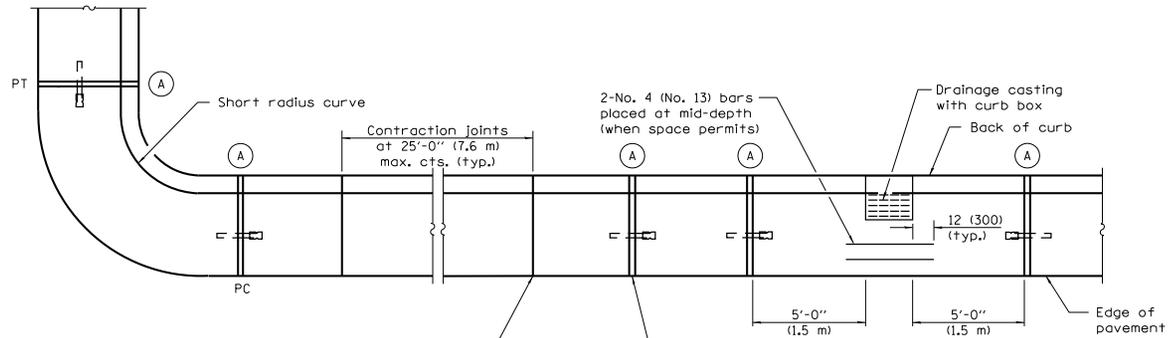
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2015

ENGINEER OF DESIGN AND ENVIRONMENT

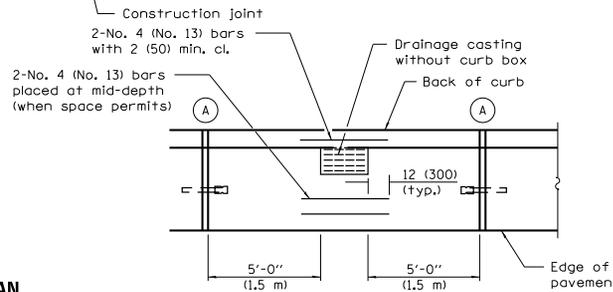
15815

46-1-1 03/15

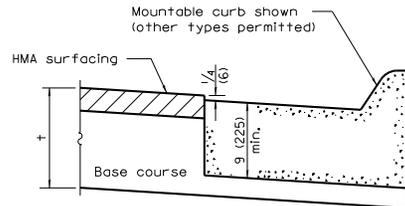


Undoweled contraction joint (typ.) construction options:

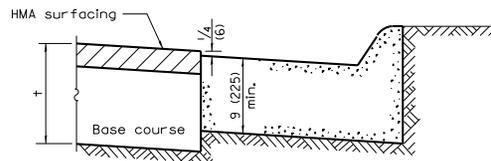
1. Form with $\frac{1}{8}$ (3) thick steel template 2 (50) deep, and seal.
2. Saw 2 (50) deep at 4 to 24 hours, and seal.
3. Insert $\frac{3}{4}$ (20) thick preformed joint filler full depth and width.



PLAN

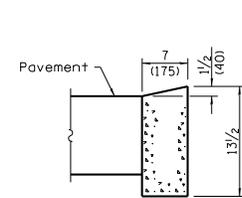


ON DISTURBED SUBGRADE

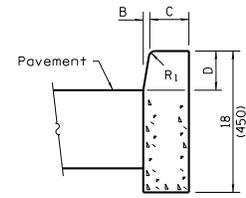


ON UNDISTURBED SUBGRADE

ADJACENT TO FLEXIBLE PAVEMENT

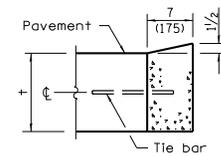


DEPRESSED CURB

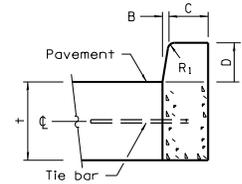


BARRIER CURB

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB



BARRIER CURB

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

(Sheet 2 of 2)

STANDARD 606001-06

Illinois Department of Transportation

PASSED January 1, 2015

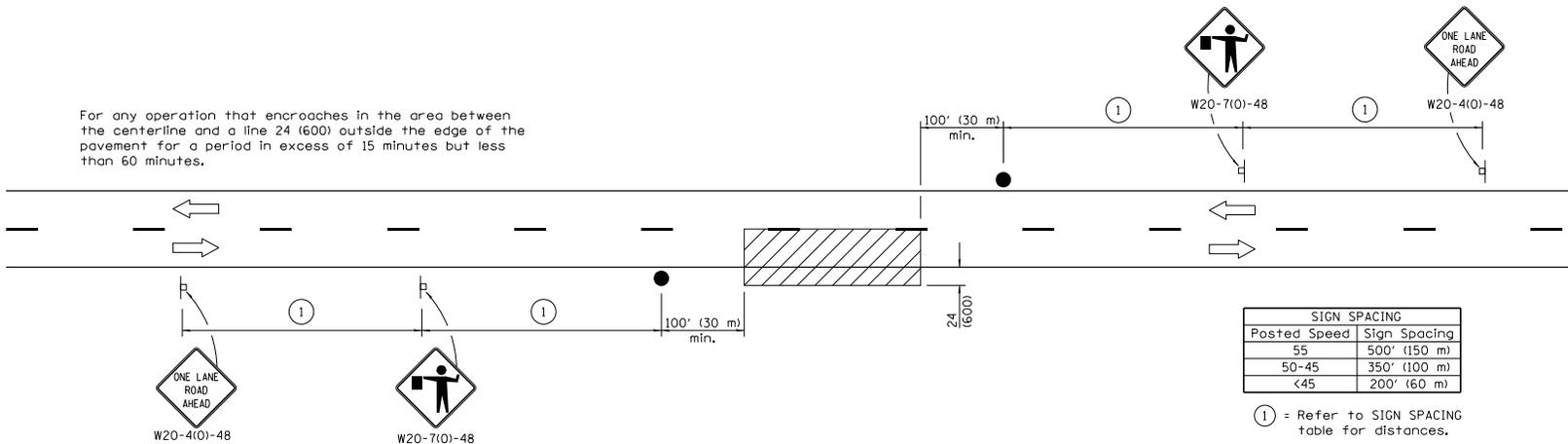
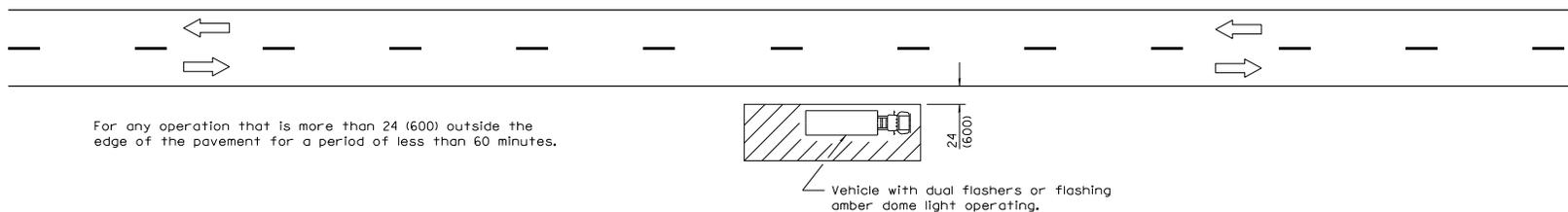
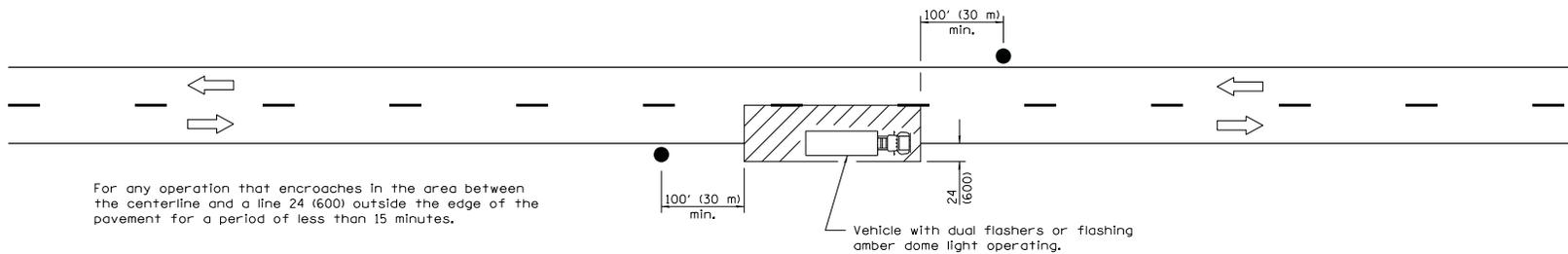
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2015

ENGINEER OF DESIGN AND ENVIRONMENT

15815

46-1-1



TYPICAL APPLICATIONS

- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

SYMBOLS

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2011
 ENGINEER OF SAFETY ENGINEERING

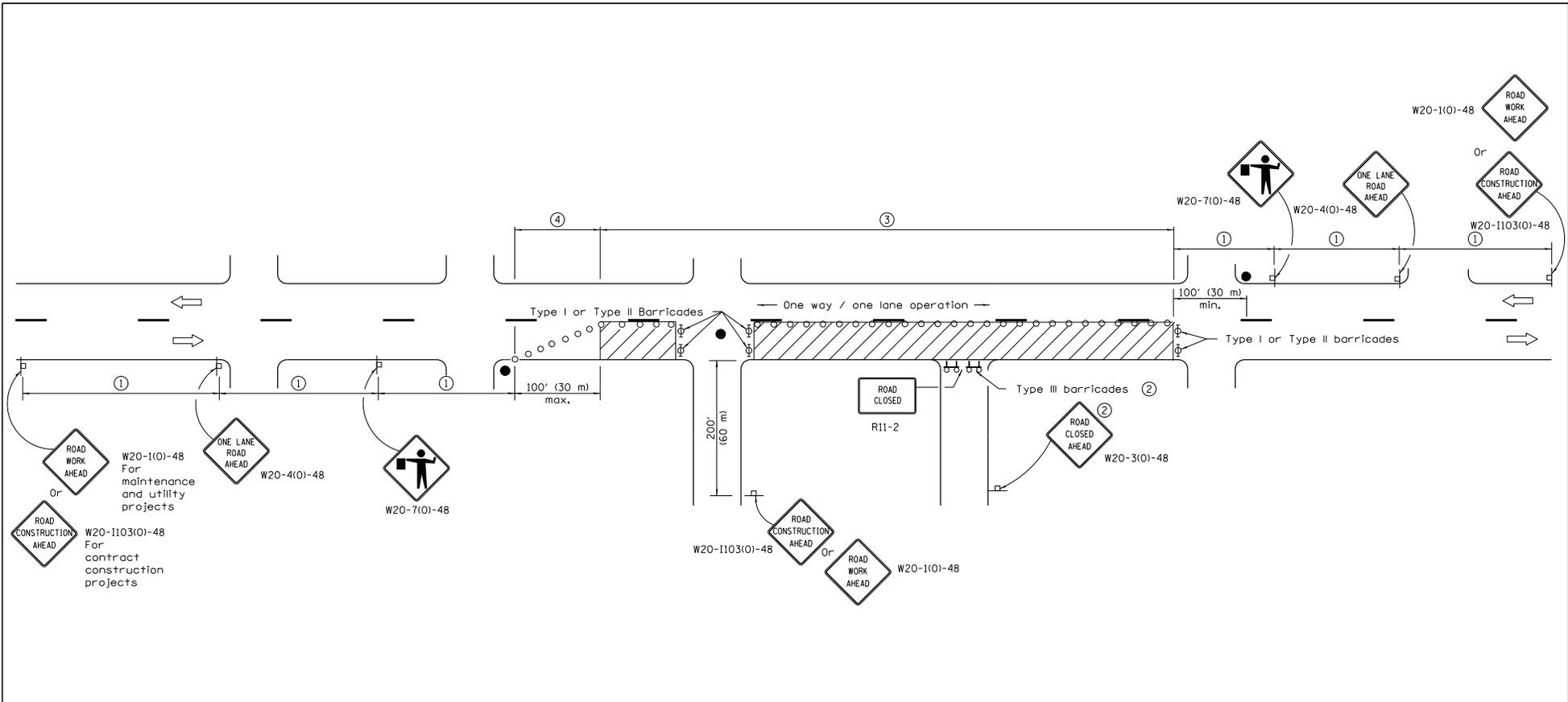
APPROVED January 1, 2011
 ENGINEER OF DESIGN AND ENVIRONMENT

158155
 46-1-1 03/15/11

| DATE | REVISIONS |
|--------|-------------------------------------|
| 1-1-11 | Revised flagger sign. |
| 1-1-09 | Switched units to English (metric). |

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04



| SIGN SPACING | |
|--------------|--------------|
| Posted Speed | Sign Spacing |
| 55 | 500' (150 m) |
| 50-45 | 350' (100 m) |
| <45 | 200' (60 m) |

SYMBOLS

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sideroad closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2011

 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2011

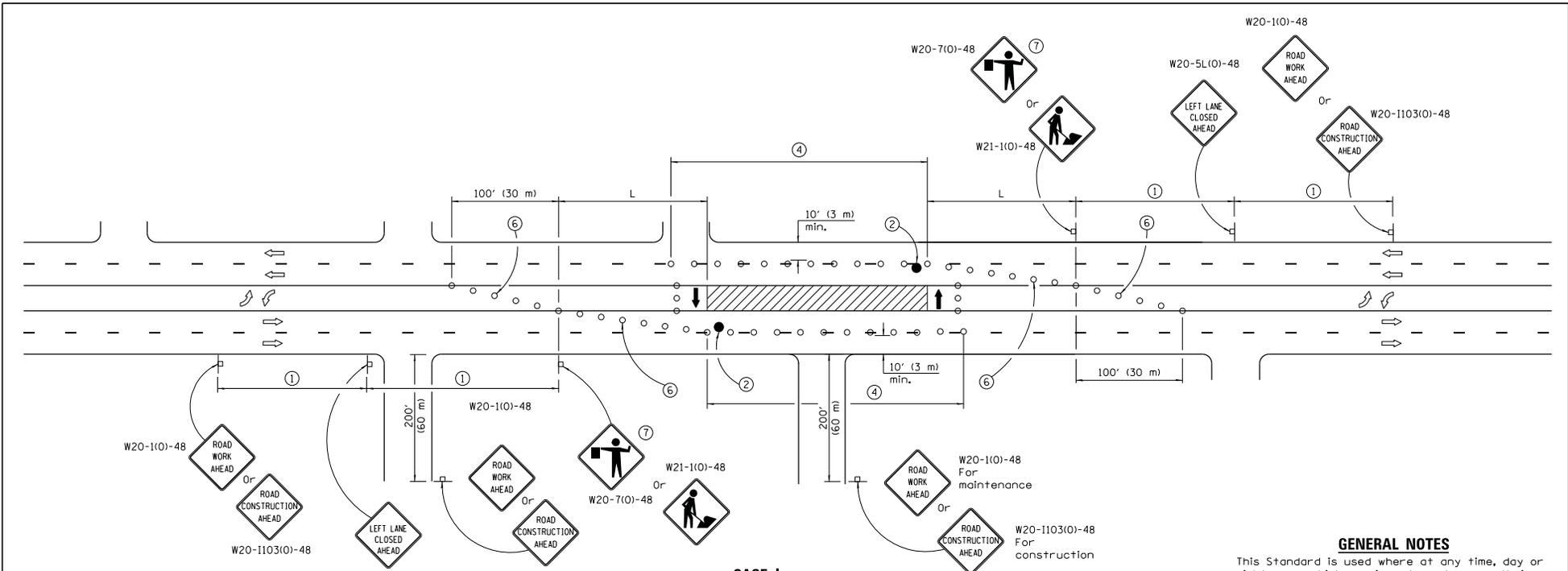
 ENGINEER OF DESIGN AND ENVIRONMENT

15815
48-1-1 03/15/11

| DATE | REVISIONS |
|--------|--|
| 1-1-11 | Revised flagger sign. |
| | |
| 1-1-09 | Switched units to English (metric). Corrected sign No.'s. |

**URBAN LANE CLOSURE,
2L, 2W, UNDIVIDED**

STANDARD 701501-06



| SIGN SPACING | |
|--------------|--------------|
| Posted Speed | Sign Spacing |
| 55 | 500' (150 m) |
| 50-45 | 350' (100 m) |
| <45 | 200' (60 m) |

- SYMBOLS**
- ↑ Arrow board
 - ▨ Work area
 - ⊕ Barricade or drum with steady burning mondirectional light
 - Flagger with traffic control sign
 - Cone, drum or barricade (Cones for daytime use only)
 - ⊞ Sign on portable or permanent support
 - ⊞ Type III barricade with flashing lights

CASE I

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph (70 km/h).
- ③ Required if work exceeds 500' (164 m) or 1 block, repeat every 1 mile (1.6 km).
- ④ Cones at 25' (8 m) centers for 250' (75 m) on approach. Additional cones may be placed at 50' (15 m) centers. When drums or type I or II barricades are used, the interval between devices may be doubled.
- ⑤ For approved sideroad closures.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Use flagger sign only when flagger is present.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an Urban area.

If the work operation is performed between 9:00 a.m. and 3:00 p.m. and does not exceed 15 min. Traffic protection shall be as shown for Standard 701426.

Calculate L as follows:

| SPEED LIMIT | FORMULAS | |
|------------------------------|-----------------------|------------------------|
| | English | (Metric) |
| 40 mph (70 km/h) or less: | $L = \frac{WS^2}{60}$ | $L = \frac{WS^2}{150}$ |
| 45 mph (80 km/h) or greater: | $L = (W)(S)$ | $L = 0.65(W)(S)$ |

W = Width of offset in feet (meters).
 S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2017
 ENGINEER OF SAFETY PROG. AND ENGINEERING

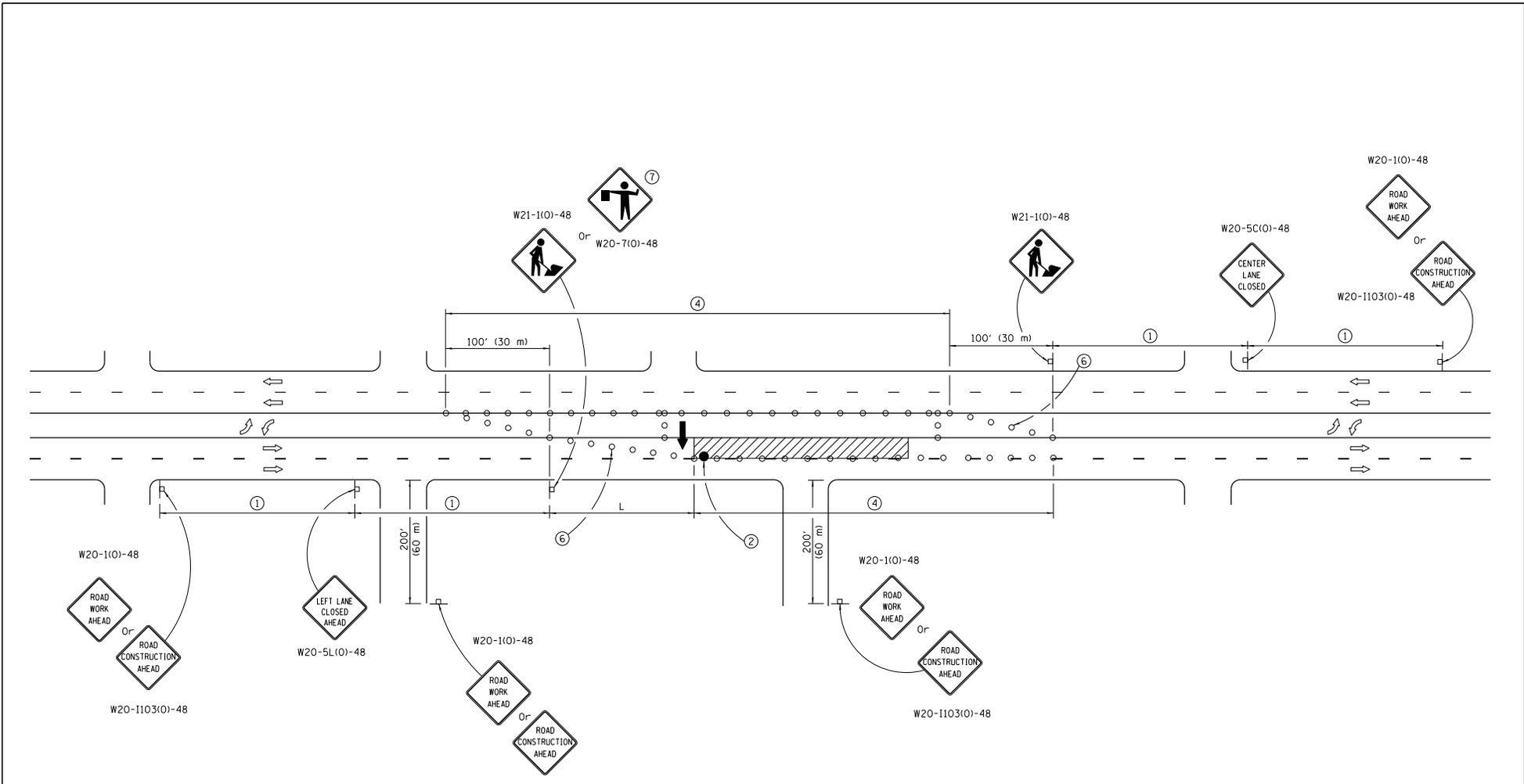
APPROVED January 1, 2017
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-01

| DATE | REVISIONS |
|--------|--|
| 1-1-17 | Added flashing lights to Type III barr. Revised dev. & sign spacing, TWLTL taper length. |
| 1-1-14 | Omitted original note (4). |
| | Rev. workers sign no. to agree with current MUTCD. |

URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
 (Sheet 1 of 4)

STANDARD 701602-08



CASE III

Illinois Department of Transportation

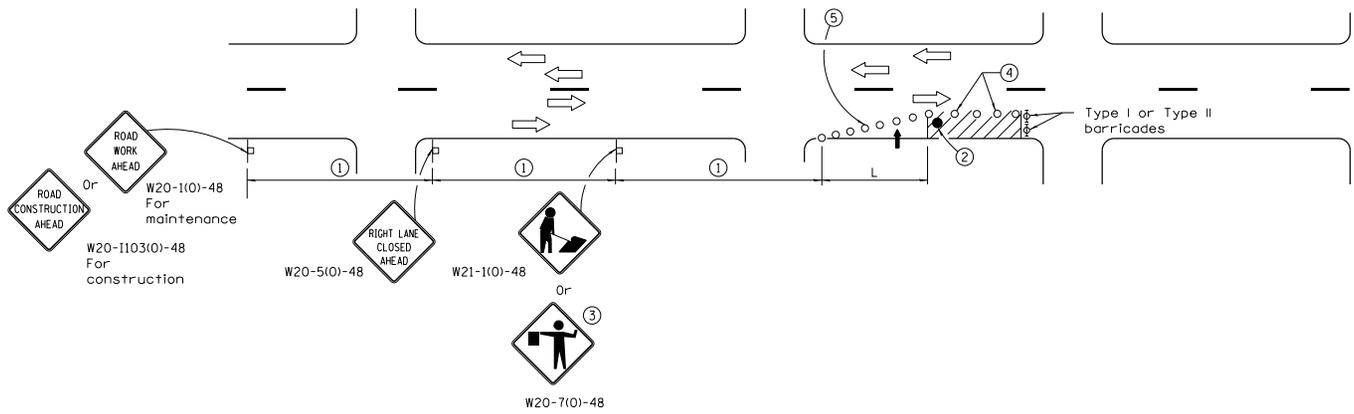
APPROVED January 1, 2017
[Signature]
 ENGINEER OF SAFETY, PROG. AND ENGINEERING

APPROVED January 1, 2017
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 10-1-11 03PSS

**URBAN LANE CLOSURE,
 MULTILANE, 2W WITH
 BIDIRECTIONAL LEFT TURN LANE**
 (Sheet 3 of 4)

STANDARD 701602-08



| SIGN SPACING | |
|--------------|--------------|
| Posted Speed | Sign Spacing |
| 55 | 500' (150 m) |
| 50-45 | 350' (100 m) |
| <45 | 200' (60 m) |

SYMBOLS

- Arrow board
- Cone, drum or barricade
- Sign on portable or permanent support
- Work area
- Barricade or drum with flashing light
- Flagger with traffic control sign.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph.
- ③ Use flagger sign only when flagger is present.
- ④ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ⑤ Cones, drums or barricades at 20' (6 m) centers in taper.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an Urban area.

Calculate L as follows:

| SPEED LIMIT | FORMULAS | |
|------------------------------|-----------------------|------------------------|
| | English | (Metric) |
| 40 mph (70 km/h) or less: | $L = \frac{WS^2}{60}$ | $L = \frac{WS^2}{150}$ |
| 45 mph (80 km/h) or greater: | $L = (W)(S)$ | $L = 0.65(W)(S)$ |

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2015
Amelia Baker
 ENGINEER OF SAFETY ENGINEERING

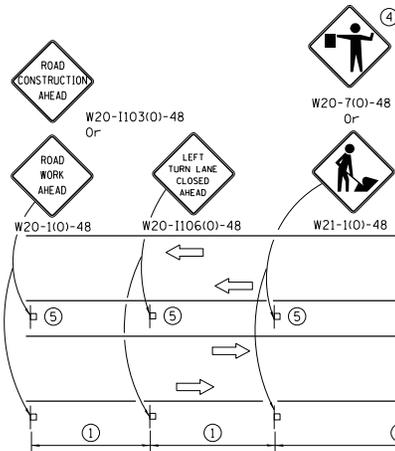
APPROVED January 1, 2015
DE
 ENGINEER OF DESIGN AND ENVIRONMENT

15815
46-1-1 03/15

| DATE | REVISIONS |
|--------|--|
| 1-1-15 | Renamed standard. Moved case on Sheet 2 to new Highway Standard. |
| 1-1-14 | Revised workers sign number to agree with current MUTCD. |

URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN

STANDARD 701606-10



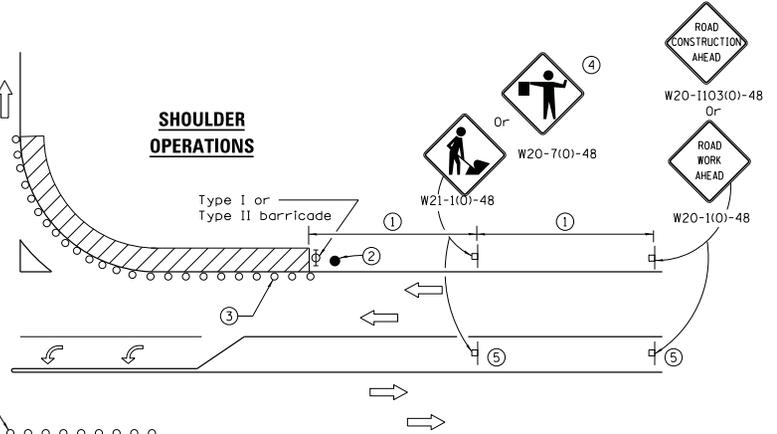
**LEFT TURN LANE OR CENTER
MEDIAN OPERATIONS**

- ① Refer to SIGN SPACING TABLE for distance.
- ② Required for speed > 40 mph.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Use flagger sign only when flagger is present.
- ⑤ Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Advanced arrow board required for speeds > 45 mph.
- ⑧ Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

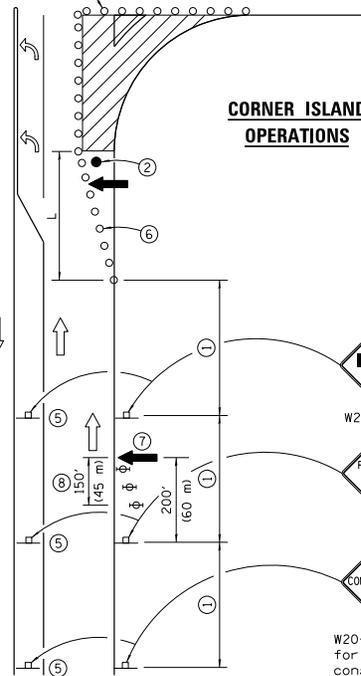
SYMBOLS

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

| SIGN SPACING | |
|--------------|--------------|
| Posted Speed | Sign Spacing |
| 55 | 500' (150 m) |
| 50-45 | 350' (100 m) |
| <45 | 200' (60 m) |



**SHOULDER
OPERATIONS**



**CORNER ISLAND
OPERATIONS**

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

| SPEED LIMIT | FORMULAS | |
|------------------------------|-----------------------|------------------------|
| | English | (Metric) |
| 40 mph (70 km/h) or less: | $L = \frac{WS^2}{60}$ | $L = \frac{WS^2}{150}$ |
| 45 mph (80 km/h) or greater: | $L = (W)(S)$ | $L = 0.65(W)(S)$ |

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|---|
| 4-1-16 | Corrected sign number for LEFT TURN LANE CLOSED AHEAD. |
| 1-1-14 | Added devices at arrow board upstream from taper. Rev. workers sign number. |

**URBAN LANE CLOSURE,
MULTILANE INTERSECTION**

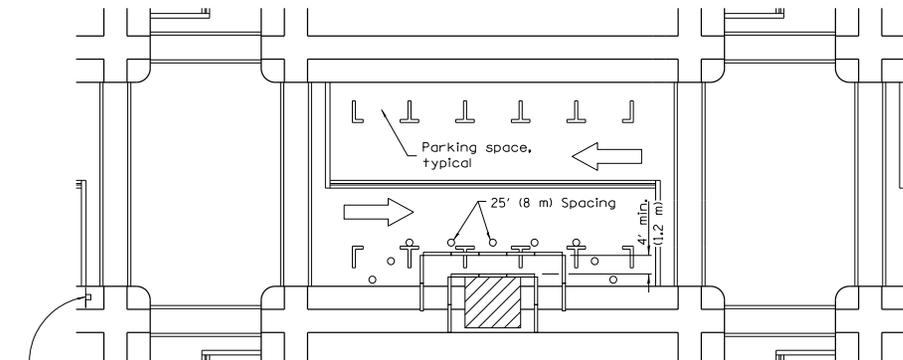
STANDARD 701701-10

Illinois Department of Transportation

APPROVER: *[Signature]* April 1, 2016
ENGINEER OF SAFETY ENGINEERING

APPROVED: *[Signature]* April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

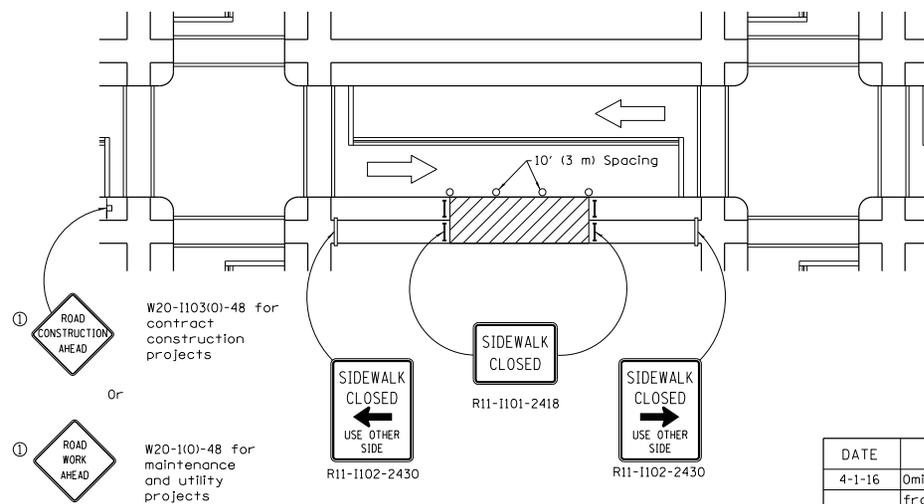
158155
46-1-17



① ROAD CONSTRUCTION AHEAD
W20-1103(O)-48 for contract construction projects

Or
① ROAD WORK AHEAD
W20-110-48 for maintenance and utility projects

SIDEWALK DIVERSION



① ROAD CONSTRUCTION AHEAD
W20-1103(O)-48 for contract construction projects

Or
① ROAD WORK AHEAD
W20-110-48 for maintenance and utility projects

SIDEWALK CLOSURE

- SYMBOLS**
- Work area
 - Sign on portable or permanent support
 - Barricade or drum
 - Cone, drum or barricade
 - Type III barricade
 - Detectable pedestrian channelizing barricade

① Omit whenever duplicated by road work traffic control.

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|--|
| 4-1-16 | Omitted orange safety fence from standard as this is covered in the std. spec. |
| 1-1-12 | Added SIDEWALK DIVERSION. |
| | Modified appearance of plan views. Renamed Std. |

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

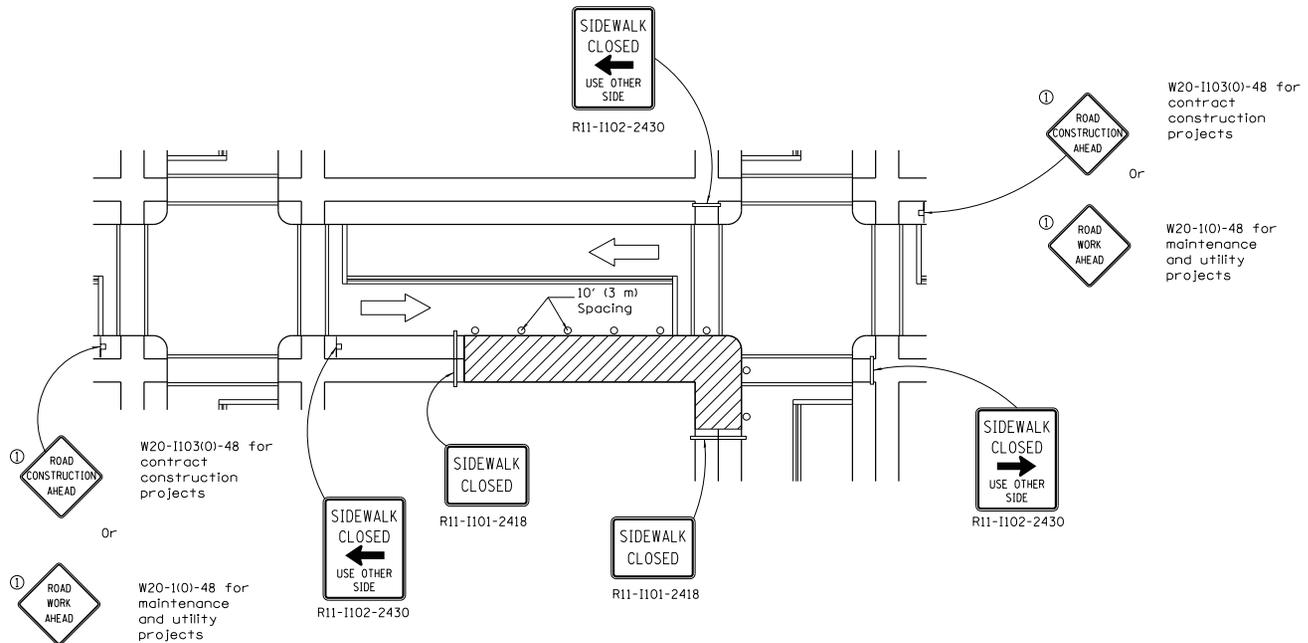
STANDARD 701801-06

Illinois Department of Transportation

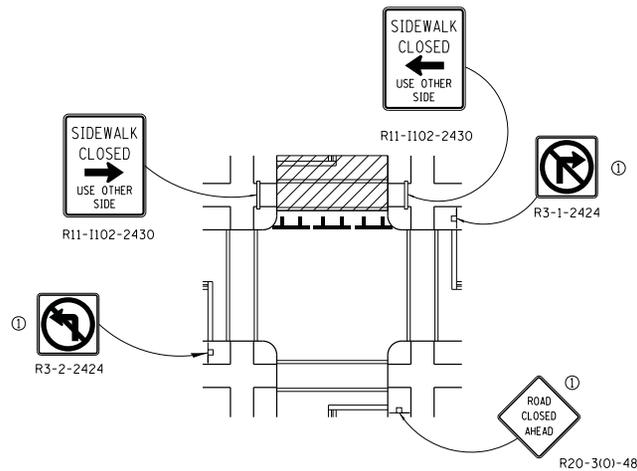
APPROVER: *[Signature]* April 1, 2016
ENGINEER OF SAFETY ENGINEERING

APPROVED: *[Signature]* April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUES: 46-1-1 03/15/16



CORNER CLOSURE



CROSSWALK CLOSURE

W20-1103(0)-48 for contract construction projects

W20-1(0)-48 for maintenance and utility projects

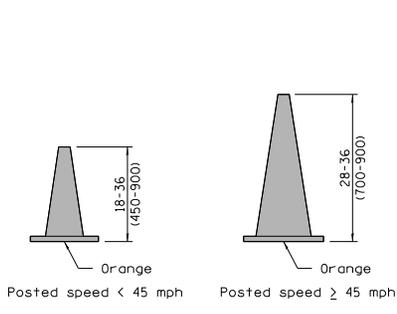
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 2 of 2)

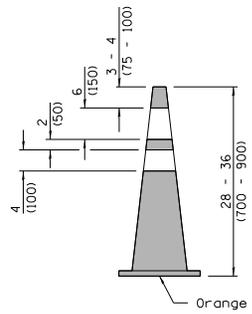
STANDARD 701801-06

| | |
|---------------------------------------|---------------|
| Illinois Department of Transportation | |
| APPROVER | April 1, 2016 |
| ENGINEER OF SAFETY ENGINEERING | |
| APPROVED | April 1, 2016 |
| ENGINEER OF DESIGN AND ENVIRONMENT | |

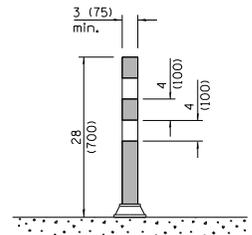
ISSUED 48-1-1 48-1-1



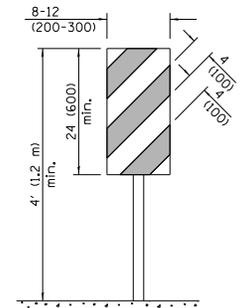
CONE FOR DAYTIME



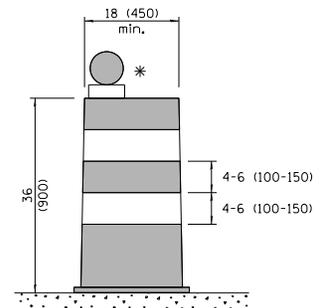
REFLECTORIZED CONE FOR NIGHTTIME



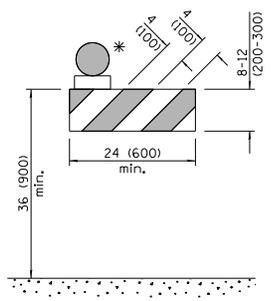
TUBULAR MARKER



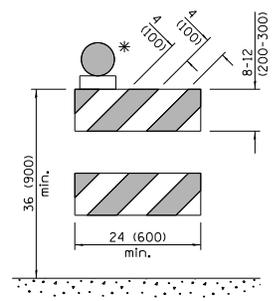
VERTICAL PANEL POST MOUNTED



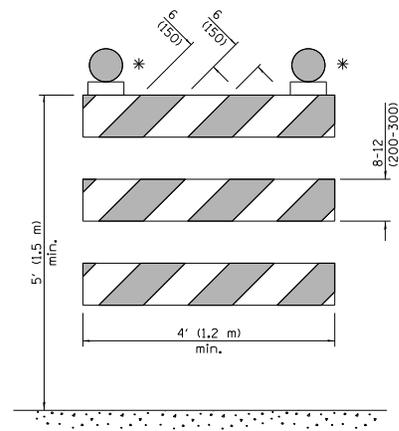
DRUM



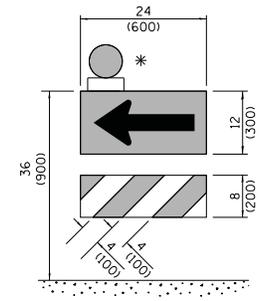
TYPE I BARRICADE



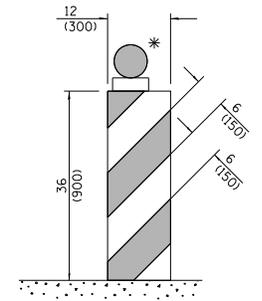
TYPE II BARRICADE



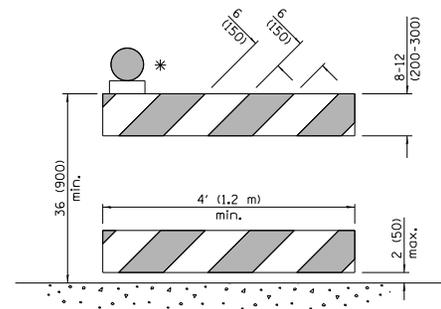
TYPE III BARRICADE



DIRECTION INDICATOR BARRICADE



VERTICAL BARRICADE



DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

* Warning lights (if required)

GENERAL NOTES
 All heights shown shall be measured above the pavement surface.
 All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|---|
| 1-1-17 | Changed FLEXIBLE DELINEATOR to TUBULAR MARKER. |
| 4-1-16 | Add dim's to barricades. Rev. note for post mnt. signs. |
| | Rev. cone dtls. Add W12-I103. |

TRAFFIC CONTROL DEVICES

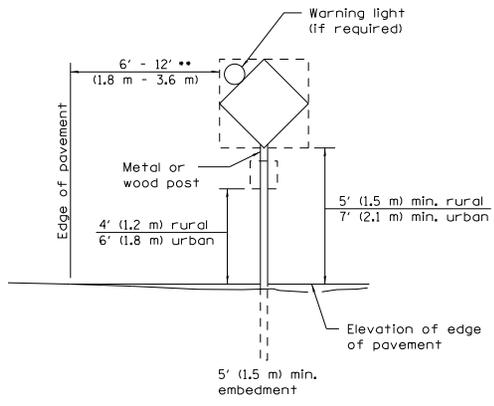
(Sheet 1 of 3)

STANDARD 701901-06

Illinois Department of Transportation

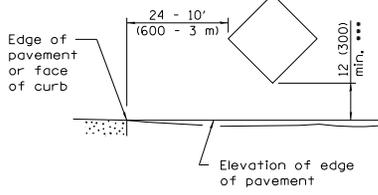
APPROVED January 1, 2017
 ENGINEER OF OPERATIONS

APPROVED January 1, 2017
 ENGINEER OF DESIGN AND ENVIRONMENT



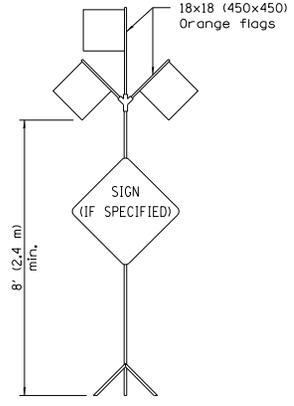
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



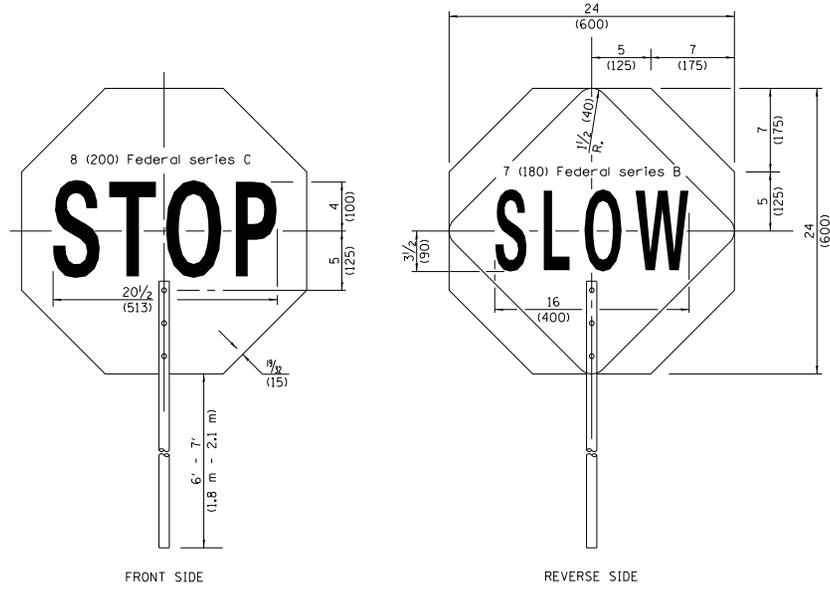
HIGH LEVEL WARNING DEVICE



W12-1103-4848

WIDTH RESTRICTION SIGN

XX'-XX'' width and X miles are variable.



FRONT SIDE

REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

| | |
|--------------------------------------|---------------------|
| ROAD CONSTRUCTION NEXT X MILES | END CONSTRUCTION |
| G20-1104(0)-6036 | G20-1105(0)-6024 |

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING

| | |
|-----------------------------|---------------------|
| WORK ZONE | W21-115(0)-3618 |
| SPEED LIMIT XX | R2-1-3648 |
| PHOTO ENFORCED | R10-1108p-3618 **** |
| SXXX FINE MINIMUM | R2-1106p-3618 |

Sign assembly as shown on Standards or as allowed by District Operations.

| | |
|---------------------------------|------------------|
| END WORK ZONE SPEED LIMIT | G20-1103(0)-6036 |
|---------------------------------|------------------|

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION
SPEED ZONE SIGNS**

**** R10-1108p shall only be used along roadways under the jurisdiction of the State.

**TRAFFIC CONTROL
DEVICES**

(Sheet 2 of 3)

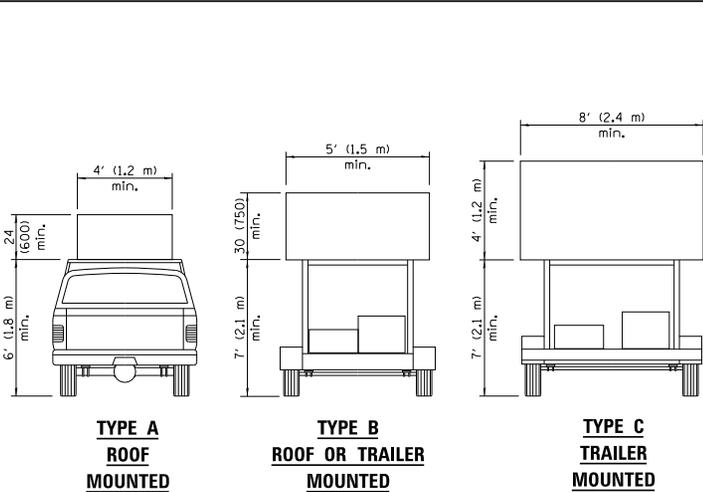
STANDARD 701901-06

Illinois Department of Transportation

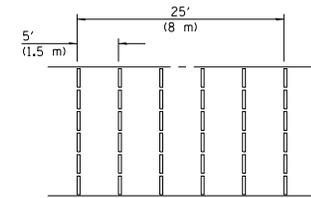
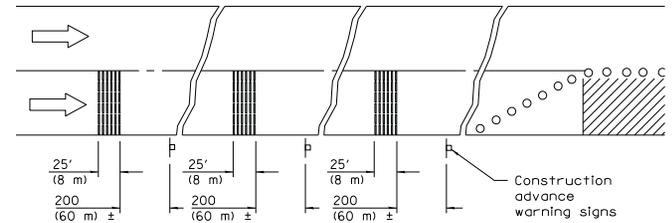
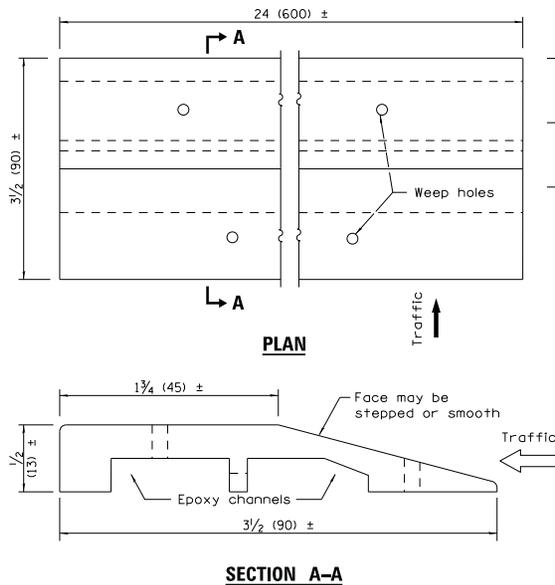
APPROVED January 1, 2017
ENGINEER OF OPERATIONS

APPROVED January 1, 2017
ENGINEER OF DESIGN AND ENVIRONMENT

158555
48-1-1
249

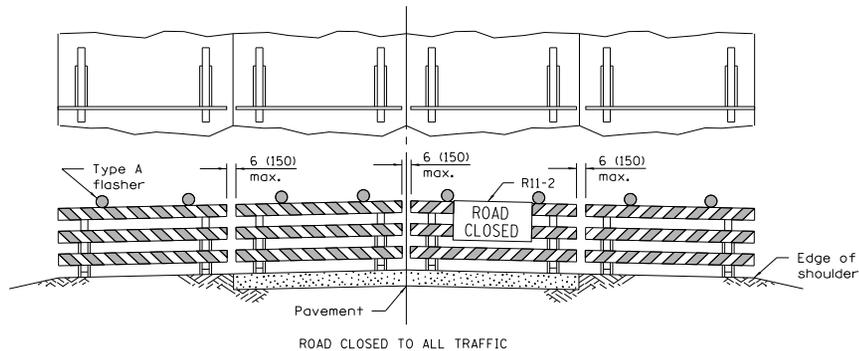


ARROW BOARDS

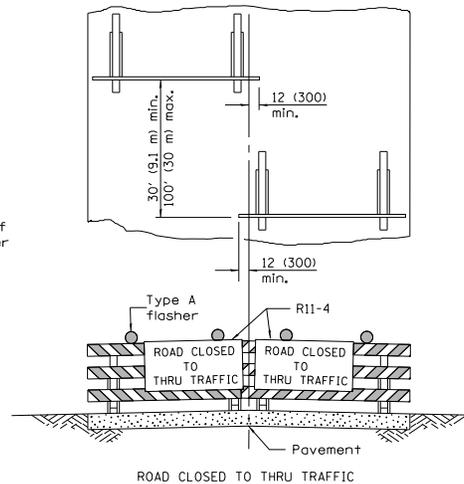


TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

**TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD**

**TRAFFIC CONTROL
DEVICES**

(Sheet 3 of 3)

STANDARD 701901-06

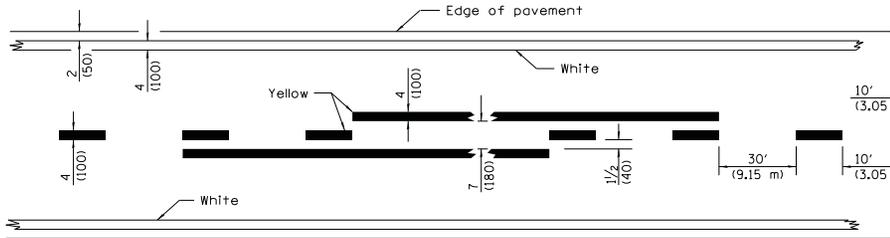
Illinois Department of Transportation

APPROVED January 1, 2017

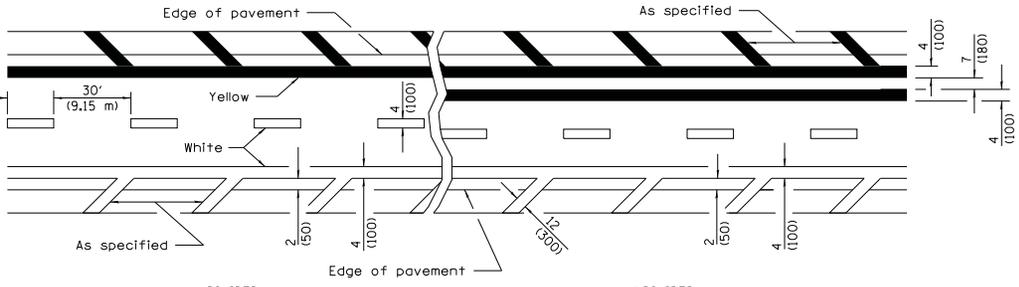
ENGINEER OF OPERATIONS

APPROVED January 1, 2017

ENGINEER OF DESIGN AND ENVIRONMENT

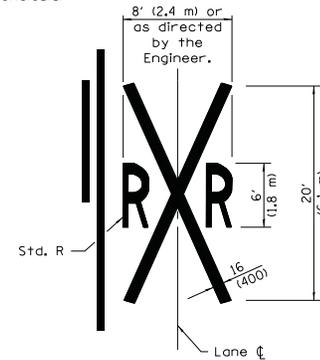
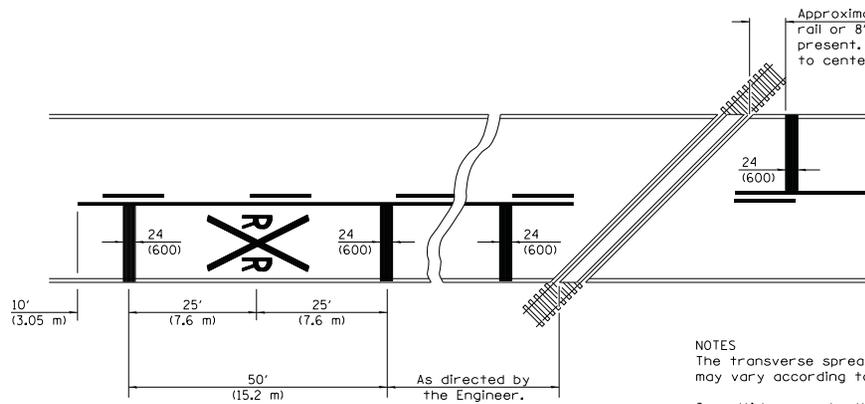


2 LANE



MULTI LANE

LANE AND EDGE LINES



NOTES

The transverse spread of the "X" may vary according to lane width.

On multi-lane roads, the stop lines shall extend across all approach lanes and separate RXR symbols shall be placed adjacent to each other in each lane.

When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition B of the MUTCD.

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|--|
| 1-1-15 | Added symbols. Revised bike symbol. Revised note for stop line at RR crossing. |
| 1-1-14 | Added bike symbol. Renamed 'LANE DROP ARROW' detail to 'LANE-REDUCTION ARROW'. |

TYPICAL PAVEMENT MARKINGS

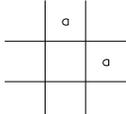
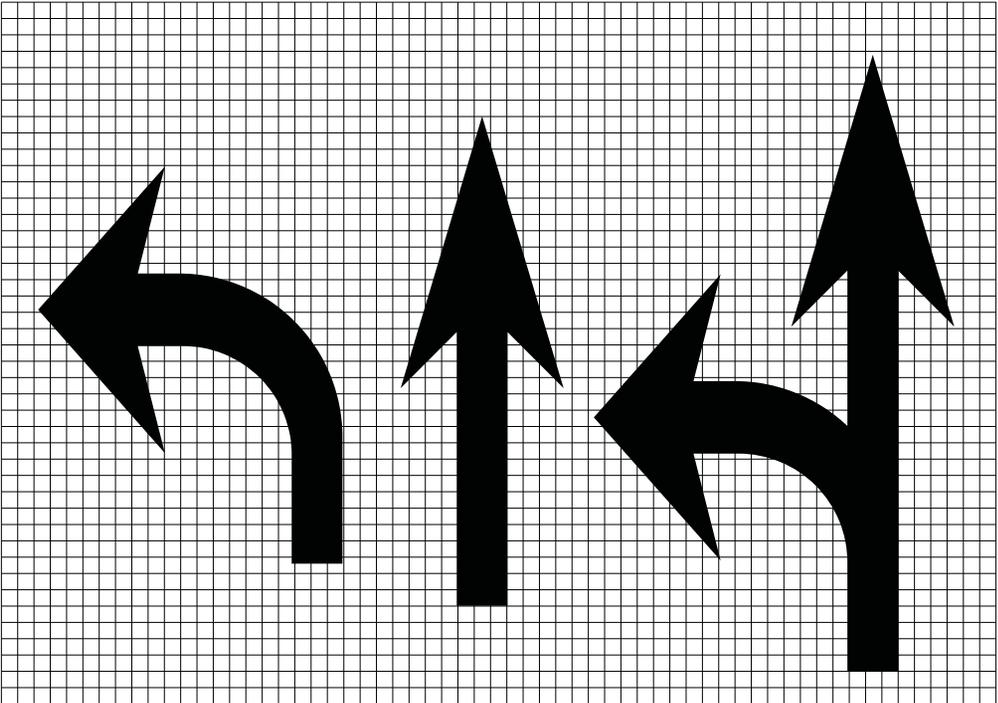
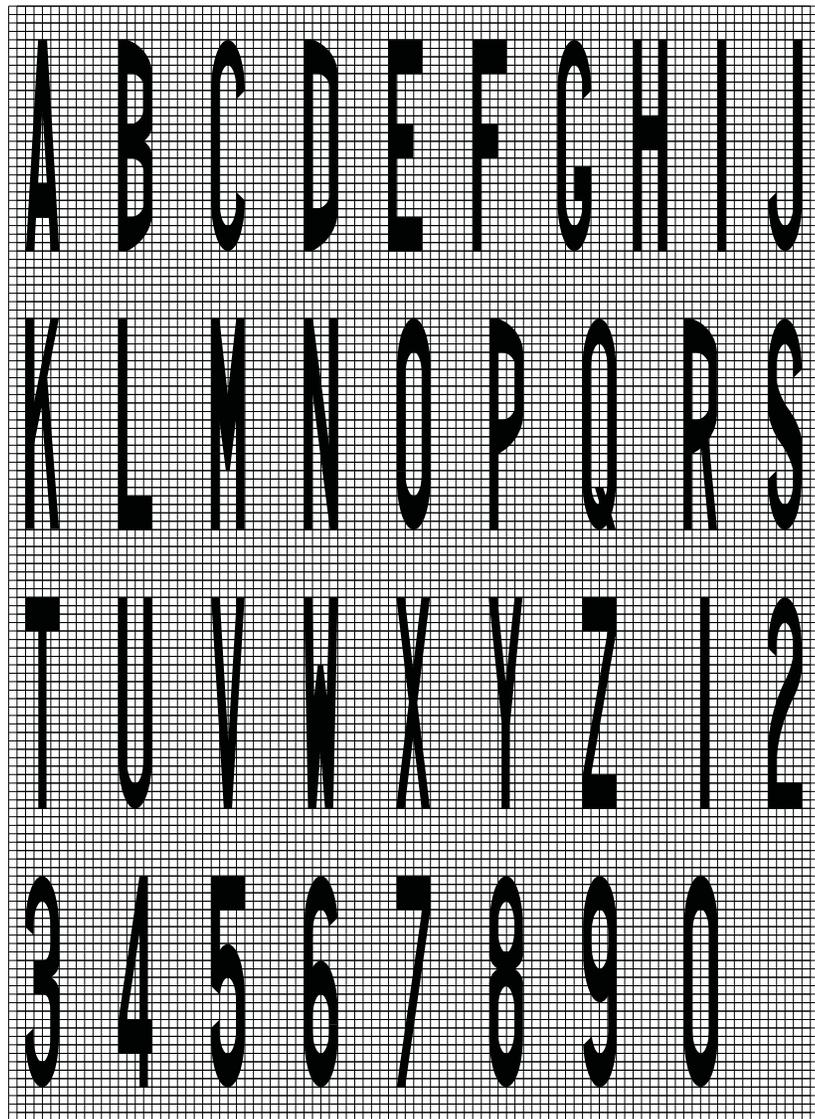
(Sheet 1 of 3)

STANDARD 780001-05

Illinois Department of Transportation

APPROVED January 1, 2015
 ENGINEER OF OPERATIONS
 APPROVED January 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT

158155
 46-1-1



| Legend Height | Arrow Size | a |
|---------------|------------|----------|
| 6' (1.8 m) | Small | 2.9 (74) |
| 8' (2.4 m) | Large | 3.8 (96) |

The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

LETTER AND ARROW GRID SCALE

Illinois Department of Transportation

APPROVED January 1, 2015

ENGINEER OF OPERATIONS

APPROVED January 1, 2015

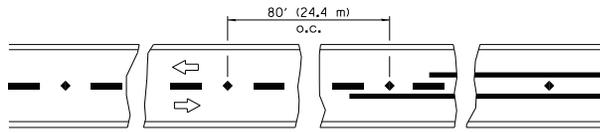
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 48-1-1

TYPICAL PAVEMENT MARKINGS

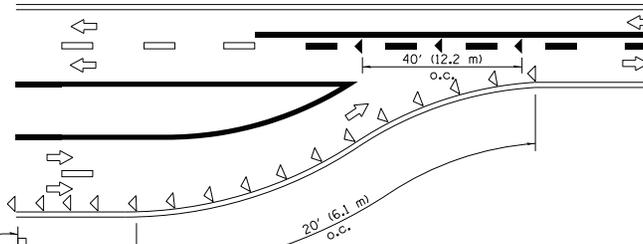
(Sheet 2 of 3)

STANDARD 780001-05

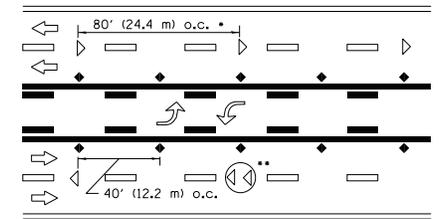


Reduce to 40' (12.2 m) o.c. on curves with posted or advisory speeds of 45 mph (70 km/h) or less.

TWO-LANE /TWO-WAY



LANE REDUCTION TRANSITION

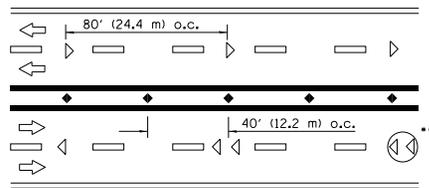


*** See MULTI LANE DIVIDED detail for lane marker notes.

TWO-WAY LEFT TURN

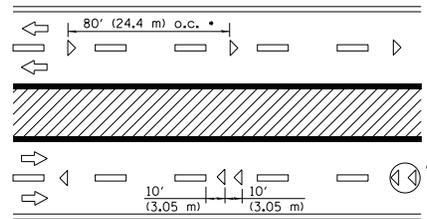


W4-2



*** See MULTI LANE DIVIDED detail for lane marker notes.

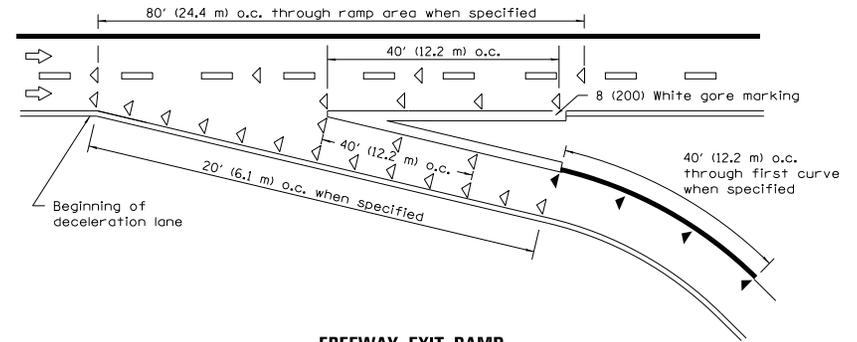
MULTI-LANE UNDIVIDED



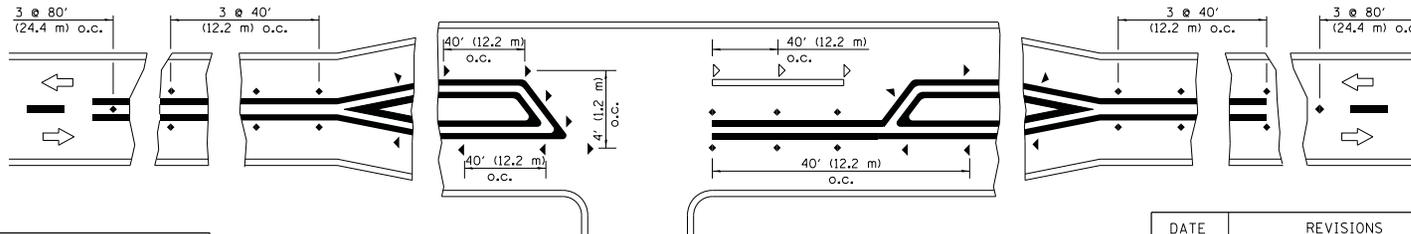
• Reduce to 40' (12.2 m) o.c. on curves where advisory speeds are 10 mph (15 km/h) lower than posted speeds.

** Where double lane line markers are specified, they shall be spaced as shown.

MULTI-LANE DIVIDED



FREEWAY EXIT RAMP



RURAL LEFT TURN

SYMBOLS

- Yellow stripe
- White stripe
- One-way amber marker
- One-way crystal marker
- Two-way amber marker

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|-------------------------------------|
| 4-1-16 | Revised LANE ENDS sign |
| | W4-2 to agree with current MUTCD. |
| 1-1-09 | Switched units to English (metric). |

**TYPICAL APPLICATIONS
RAISED REFLECTIVE
PAVEMENT MARKERS**

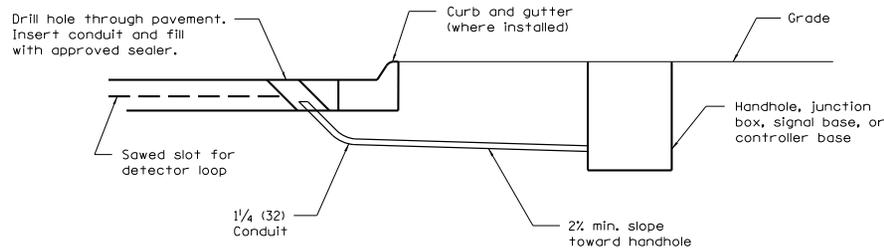
STANDARD 781001-04

Illinois Department of Transportation

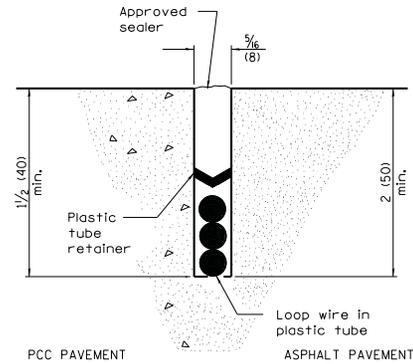
APPROVED April 1, 2016
ENGINEER OF OPERATIONS

APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

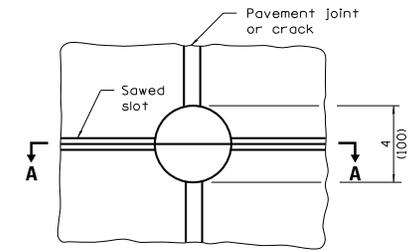
ISSUED 46-1-1



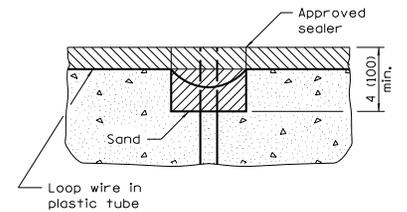
DETECTOR LOOP LEAD-IN



DETECTOR LOOP INSTALLATION



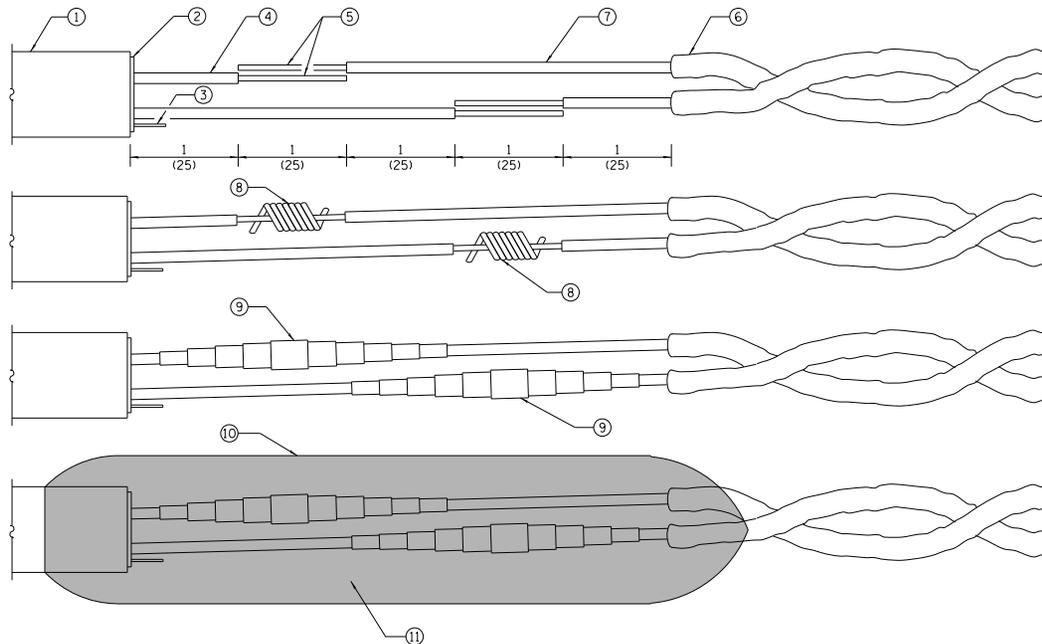
PLAN



SECTION A-A

NOTE
Loop wire shall follow saw cut to bottom, forming slack section at joint.

DETECTOR LOOP AT PAVEMENT JOINT OR PAVEMENT CRACK



LOOP WIRE AND LEAD-IN CABLE SPlice

- ① = Lead-in cable (single pair or multipair)
- ② = Lead-in cable shield
- ③ = Lead-in cable shield drain-wire
- ④ = Lead-in cable insulated conductor
- ⑤ = Bare conductor
- ⑥ = Loop wire in tube
- ⑦ = Loop wire insulated conductor
- ⑧ = Twisted and resin soldered conductor
- ⑨ = Electrical tape insulated splice
- ⑩ = Rigid mold
- ⑪ = Waterproof and dielectric resin

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2009
ENGINEER OF OPERATIONS

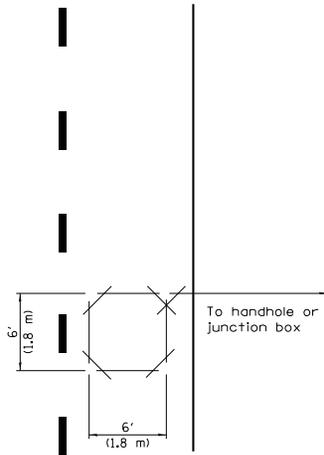
APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 20-1-1-1-1-20

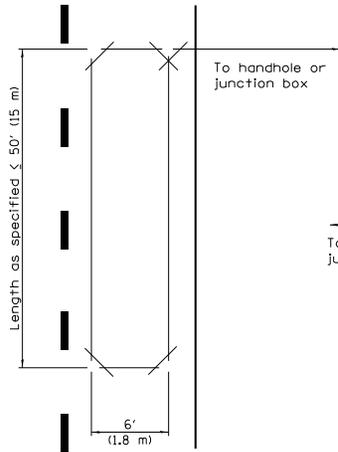
| DATE | REVISIONS |
|--------|------------------------------------|
| 1-1-09 | Switched units to English (metric) |
| 1-1-02 | Renum. Standard 846001. |

DETECTOR LOOP INSTALLATIONS

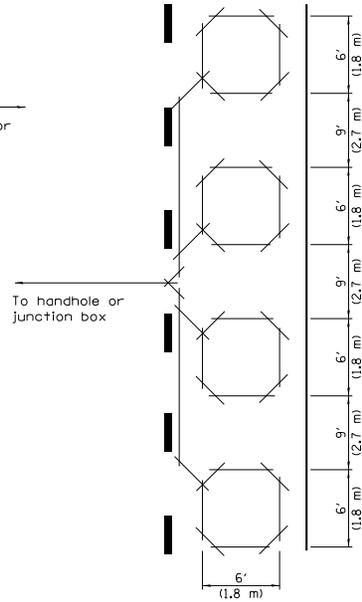
STANDARD 886001-01



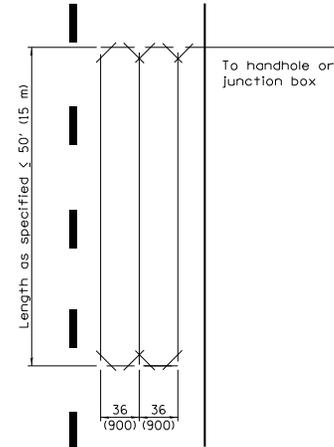
FOR POINT DETECTION
SHORT LOOP



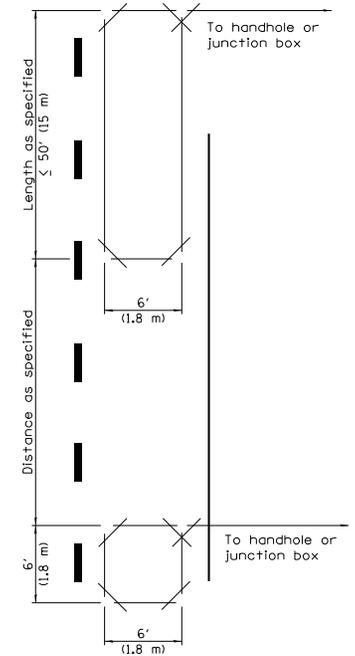
FOR PRESENCE DETECTION
LONG LOOP



FOR PRESENCE DETECTION
MULTIPLE LOOP IN SERIES

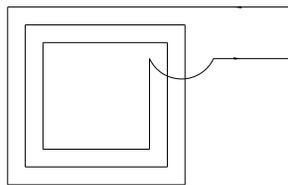


FOR PRESENCE DETECTION
QUADRUPOLE LOOP

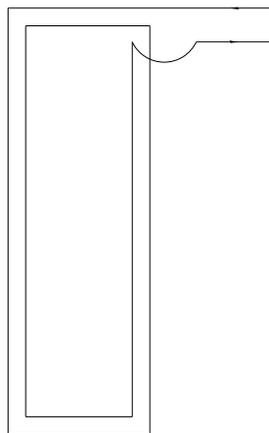


FOR EXTENDED-CALL DETECTION

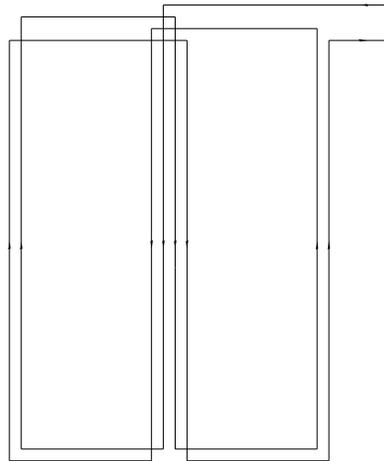
SLOT PLAN



SHORT LOOP



LONG LOOP



QUADRUPOLE LOOP

WIRING DIAGRAM

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|------------------------------------|
| 1-1-09 | Switched units to English (metric) |
| 1-1-02 | Renum. Standard 846006. |

**TYPICAL LAYOUTS
FOR DETECTION LOOPS**

STANDARD 886006-01

Illinois Department of Transportation

APPROVED January 1, 2009
ENGINEER OF OPERATIONS

APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 20-1-1



Illinois Department of Transportation

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

Affidavit of Availability For the Letting of **May 8, 2017**

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show **NONE**.

| | 1 | 2 | 3 | 4 | Awards Pending | |
|--|---|---|---|---|----------------|--------------------|
| Contract Number | | | | | | |
| Contract With | | | | | | |
| Estimated Completion Date | | | | | | |
| Total Contract Price | | | | | | Accumulated Totals |
| Uncompleted Dollar Value if Firm is the Prime Contractor | | | | | | |
| Uncompleted Dollar Value if Firm is the Subcontractor | | | | | | |
| Total Value of All Work | | | | | | |

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show **NONE**.

| | | | | | | Accumulated Totals |
|---------------------------------------|--|--|--|--|--|--------------------|
| Earthwork | | | | | | |
| Portland Cement Concrete Paving | | | | | | |
| HMA Plant Mix | | | | | | |
| HMA Paving | | | | | | |
| Clean & Seal Cracks/Joints | | | | | | |
| Aggregate Bases & Surfaces | | | | | | |
| Highway, R.R. and Waterway Structures | | | | | | |
| Drainage | | | | | | |
| Electrical | | | | | | |
| Cover and Seal Coats | | | | | | |
| Concrete Construction | | | | | | |
| Landscaping | | | | | | |
| Fencing | | | | | | |
| Guardrail | | | | | | |
| Painting | | | | | | |
| Signing | | | | | | |
| Cold Milling, Planning & Rotomilling | | | | | | |
| Demolition | | | | | | |
| Pavement Markings (Paint) | | | | | | |
| Other Construction (List) | | | | | | |
| | | | | | | \$ 0.00 |
| Totals | | | | | | |

Disclosure of this information is **REQUIRED** to accomplish the statutory purpose as outlined in the "Illinois Procurement Code." Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others.

For each contract described in Part I, list all the work you have subcontracted to others.

| | 1 | 2 | 3 | 4 | Awards Pending |
|--------------------|---|---|---|---|----------------|
| Subcontractor | | | | | |
| Type of Work | | | | | |
| Subcontract Price | | | | | |
| Amount Uncompleted | | | | | |
| Subcontractor | | | | | |
| Type of Work | | | | | |
| Subcontract Price | | | | | |
| Amount Uncompleted | | | | | |
| Subcontractor | | | | | |
| Type of Work | | | | | |
| Subcontract Price | | | | | |
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| Type of Work | | | | | |
| Subcontract Price | | | | | |
| Amount Uncompleted | | | | | |
| Subcontractor | | | | | |
| Type of Work | | | | | |
| Subcontract Price | | | | | |
| Amount Uncompleted | | | | | |
| Total Uncompleted | | | | | |

I, being duly sworn, do hereby declare that this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates.

Subscribed and sworn to before me
 this _____ day of _____, _____ Type or Print Name _____
 Officer or Director Title

Signed _____

 Notary Public

My commission expires _____

(Notary Seal)

Company _____

Address _____

SEALED BID LABEL – CUT OUT

Cut along outer border and affix this label to your sealed bid envelope to identify it as a “Sealed Bid”.

| |
|--|
| <p>SEALED BID – DO NOT OPEN</p> <p>=====</p> <p>PROPOSAL FOR:</p> <p>2017 West Street Water Main Replacement Project</p> <p>_____</p> <p>PROPOSAL FROM: (Insert your company name below)</p> <p>_____</p> <p>TIME OF OPENING: <u>11:00 A.M. local time</u></p> <p>DATE OF OPENING: <u>June 7, 2017</u></p> <p>=====</p> <p>TO BE OPENED BY PURCHASING OFFICER ONLY</p> <p>=====</p> <hr/> <p>MAIL TO:</p> <p>Linda Styczen, Purchasing Officer City Hall / City of Wheaton P.O. BOX 0727 303 West Wesley Street Wheaton, IL 60189-0727</p> |
|--|

City of Wheaton
Engineering Department

SPECIAL PROVISION
FOR
Low Impact Design - Green Infrastructure Training

Effective: 1/1/2017

All general and sub-contractors are required to provide annual training to their employees in current green infrastructure or low impact design practices. Training shall include contactors who manage or carry out routine maintenance repairs or replacement of public surfaces.

All training shall be in accordance with the current regulations governed by the National Pollution Discharge Elimination System (NPDES) ILR-40 General Permit Section 5, Article D, Paragraph ii.

Contractors shall provide confirmation of training below.

I, _____ (Company Owner or Management Representative) hereby acknowledge that all employees working on this project have completed the required annual low impact design/green technology training for this permit cycle year (April 1, 20__ – March 31, 20__).

Signature: _____

Title: _____

Date: _____

Company: _____

CONSTRUCTION PLANS FOR
WHEATON ENGINEERING SERVICES
WATER MAIN REPLACEMENT
WEST STREET

ROOSEVELT ROAD (IL ROUTE 38) TO CHILDS STREET/ILLINOIS STREET

INDEX OF DRAWINGS

- 1 COVER SHEET
- 2-3 GENERAL NOTES
- 4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6-7 STAGE 1 REMOVAL PLANS
- 8-9 STAGE 2 REMOVAL PLANS
- 10-11 STAGE 3 REMOVAL PLANS
- 12-14 PLAN AND PROFILE WATER MAIN PLANS
- 15-16 EROSION CONTROL AND LANDSCAPING PLANS
- 17-18 MAINTENANCE OF TRAFFIC AND DETOUR PLANS
- 19 CONSTRUCTION DETAILS

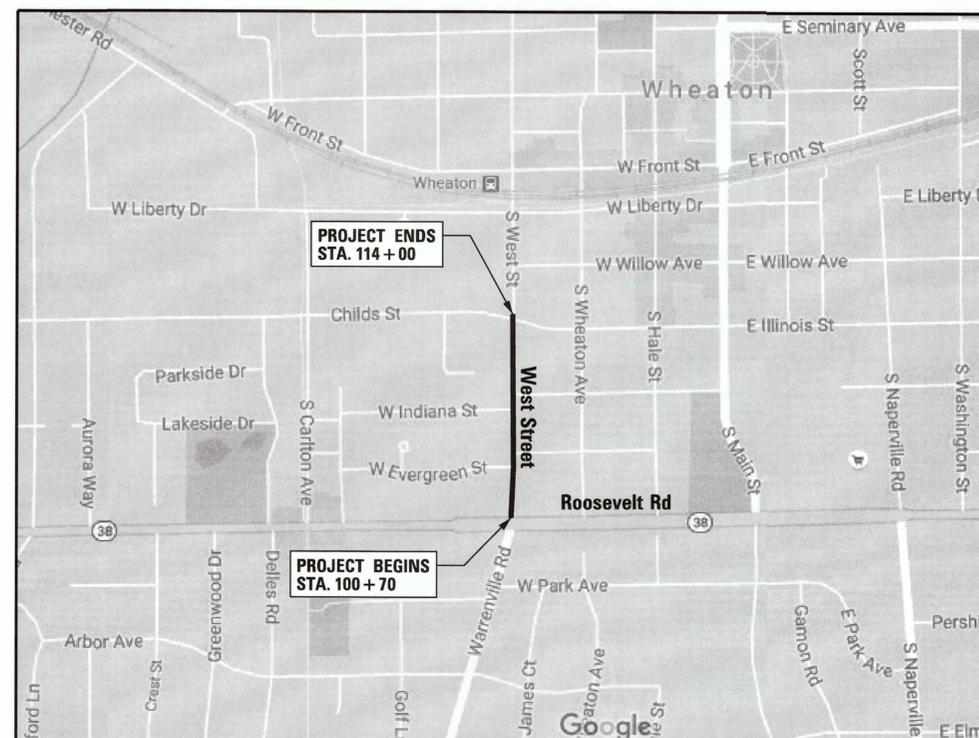
LIST OF STATE STANDARDS:

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 422201-03 CLASS C AND D PATCHES
- 606001-06 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701301-04 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
- 701501-06 URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
- 701602-08 URBAN LANE CLOSURE, MULTILANE, 2W WITH BI-DIRECTIONAL LEFT TURN LANE
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-02 TRAFFIC CONTROL DEVICES
- 780001-03 TYPICAL PAVEMENT MARKINGS
- 886001-01 DETECTOR LOOP INSTALLATION
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

TRAFFIC DATA

POSTED SPEED: 30 MPH
 ADT: 11,000 (2040)

FOR THE
CITY OF WHEATON
DuPAGE COUNTY, ILLINOIS



LOCATION MAP

LENGTH OF PROJECT TOTAL = 1,358 FEET (0.26 MILES)

SIGNED: Kevin VanDeWoeStyne
KEVIN VANDEWOESTYNE, P.E.

DATE: April 27, 2017
 IL REGISTRATION NUMBER: 062-061311
 EXPIRES: 11/30/2017

CITY OF WHEATON

SUBMITTED: _____, 20____

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

| | | | | |
|------------|-----|-------|-----------|------|
| DRAWN BY | DJN | DATE | REVISIONS | |
| | | | NO. | DATE |
| CHECKED BY | KCV | SCALE | | |

CITY OF WHEATON
 ENGINEERING DEPARTMENT
 303 WEST WESLEY STREET
 WHEATON, ILLINOIS 60187
 PHONE 630.260.2065
 WWW.WHEATON.IL.US

thomas
 engineering group
 service at the highest grade.

thomas engineering group, llc
 762 shoreline drive
 suite 200
 aurora, illinois 60504
 phone: 855-533-1700

WEST STREET
WATER MAIN REPLACEMENT
CITY OF WHEATON

TITLE SHEET

DRAWING NO.
1 OF 19

GENERAL NOTES:

1. ALL EXCESS MATERIAL (BROKEN CONCRETE, ASPHALT, CULVERT PIPE, WASTE ROADWAY EXCAVATION, AND SURPLUS MATERIALS FROM UTILITY TRENCHES) SHALL BE WASTED OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMPING SITES. HE/SHE SHALL PROVIDE A LIST OF THESE SITES TO THE ENGINEER FOR HIS/HER EXAMINATION AND GENERAL INFORMATION.
3. THE CONTRACTOR SHALL REMOVE ALL BRUSH, HEDGES, AND STUMPS WHICH ARE NOT SPECIFICALLY NOTED OTHERWISE FROM WITHIN THE RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER. ALL COSTS FOR LABOR, EQUIPMENT, AND MATERIAL TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT.
4. ALL PROPERTY AND SURFACE STRUCTURES WITHIN THE RIGHT-OF-WAY SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS UNLESS THE ENGINEER DIRECTS REMOVAL FOR PURPOSES RELATED TO CONSTRUCTION UNDER THIS CONTRACT. ANY FENCES, POLES, FLAGSTONE, DECORATIVE STONE, SPECIAL LANDSCAPING, OR OTHER MAN MADE SURFACE IMPROVEMENT WHICH IS REMOVED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY HIM TO ITS ORIGINAL CONDITION AFTER THE CONSTRUCTION ACTIVITIES ARE COMPLETED. ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT.
5. ALL FRAMES, GRATES, LIDS, FIRE HYDRANTS, AND VALVE BOXES WHICH ARE REMOVED AND ARE TO BE ABANDONED SHALL REMAIN THE PROPERTY OF THE CITY OF WHEATON. ANY OF THESE ITEMS WHICH ARE DAMAGED BY THE CONTRACTOR DURING HANDLING SHALL BE REPLACED BY HIM AT HIS EXPENSE. NO ADDITIONAL COMPENSATION SHALL BE GIVEN FOR SALVAGING THESE ITEMS. UPON REMOVAL FROM THEIR WORKING LOCATIONS, THEY ARE TO BE STOCKPILED AT AN ON-SITE LOCATION DETERMINED BY THE ENGINEER WHERE THEY WILL BE PICKED UP BY CITY PERSONNEL AT THE CONCLUSION OF WORK ON THAT STREET.
6. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO ACCEPT ALL STORM WATER THAT WILL BE DELIVERED BY THESE DRAINS AND BASINS AND SHALL DISCHARGE THE SAME. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT AND TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF WATER WHICH IS RECEIVED FROM ALL TEMPORARY CONNECTIONS. THESE TEMPORARY FACILITIES SHALL BE MAINTAINED UNTIL ALL PERMANENT CONNECTIONS ARE COMPLETED.
7. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FOLLOWED WHEN EXISTING CURB AND GUTTER IS REMOVED AND EXISTING DRAINAGE STRUCTURES ARE TO REMAIN ACTIVE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE CONTRACT DOCUMENTS. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT LINE ITEM COMBINATION CURB AND GUTTER REMOVAL.
8. PAVEMENT SAW CUTTING FOR ITEMS TO BE REMOVED ON THE PLANS, AS SPECIFIED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER, SHALL BE INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
9. THE THICKNESS OF THE HMA SHOWN ON THE PLANS IS NOMINAL. DEVIATIONS MAY OCCUR IN THE FIELD DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE UPON WHICH THE HMA IS BEING PLACED.
10. DRIVEWAYS AND CARRIAGE WALKS THAT ARE LOCATED WITHIN THE RIGHT-OF-WAY FOR EACH STREET BEING REHABILITATED ARE SHADED TO INDICATE THE EXISTING MATERIAL. THE SHADED AREA DOES NOT NECESSARILY INDICATE THE LIMITS OF REPLACEMENT. ALL DRIVEWAYS SHALL BE REPLACED MINIMALLY FROM A POINT SEVEN FEET BEHIND THE BACK OF CURB TO THE STREET AND SHALL HAVE THREE OR SIX FOOT FLARES AS INDICATED IN THE SPECIFICATIONS.
11. THE ENGINEER SHALL DETERMINE THE LIMITS FOR REPLACEMENT FOR EACH DRIVEWAY BASED ON DRAINAGE AND AESTHETIC CONSIDERATIONS, NOT PAVEMENT CONDITION. ALL SAWCUTTING SHALL BE INCLUDED IN THE REMOVAL OF THE PAVEMENT.
12. THE LOCATIONS AND ELEVATIONS OF THE VARIOUS UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL EXERCISE CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR UTILITIES TO PREVENT DAMAGE. THE FAILURE OF A UTILITY COMPANY TO ACCURATELY LOCATE THEIR UTILITY DOES NOT FREE THE CONTRACTOR FROM RESPONSIBILITY. THE MAJOR CONCERN OF THE CITY OF WHEATON IS PUBLIC SAFETY.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL STRUCTURE DEPTHS, PIPE DIAMETERS, AND ALIGNMENTS PRIOR TO ORDERING MATERIALS. THE CITY SHALL REJECT ALL STRUCTURES THAT ARE INCORRECTLY CONSTRUCTED.
14. THE CONTRACTOR SHALL COOPERATE WITH THE CITY IN ANY UNDERGROUND UTILITY CONSTRUCTION WHICH THE CITY MAY WANT TO PERFORM DURING THE CONTRACTOR'S OPERATIONS.
15. THE CONTRACTOR SHALL HAVE LINE AND/OR FORMS SET A MINIMUM OF FOUR WORKING HOURS PRIOR TO THE SCHEDULED ARRIVAL OF CONCRETE ON SITE FOR THE PLACEMENT OF CURB AND GUTTER, DRIVEWAYS, AND SIDEWALK TO ALLOW THE ENGINEER TIME TO CHECK LINE AND GRADE.
16. TRANSITION CURB AND GUTTER FROM THE PROPOSED COMBINATION CONCRETE CURB AND GUTTER SHALL BE PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE BEING INSTALLED AS PART OF THIS CONTRACT.
17. ALL RADII FOR PROPOSED COMBINATION CONCRETE CURB AND GUTTER SHALL BE PLACED AT THE EXISTING DIMENSION UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS OR AS DIRECTED BY THE ENGINEER. ELEVATIONS SHOWN AT POINT ON THE CURB INDICATED FLOW LINE ELEVATIONS UNLESS NOTED OTHERWISE.

18. AGGREGATE BASE COURSE PLACED UNDER THE PROPOSED CURB AND GUTTER SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE COMBINATION CURB AND GUTTER. THE QUANTITY OF THIS AGGREGATE SHALL BE OF A DEPTH SUFFICIENT TO BRING THE CURB AND GUTTER TO THE PROPOSED GRADE. ALL GUTTER FLAG SHALL BE A MINIMUM OF NINE INCHES THICK, UNLESS INDICATED OTHERWISE.
19. WHEN WATER SERVICE BOXES FALL WITHIN THE LIMITS OF CONCRETE FLATWORK, THE CONTRACTOR SHALL PROVIDE EITHER A SECTION OF 4" POLY VINYL CHLORIDE (PVC) PIPE OR 4" HIGH DENSITY POLYETHYLENE (HDPE) PIPE TO SLEEVE THE BOX. THE SLEEVE SHALL EITHER BE REMOVED OR TRIMMED TO MATCH THE EXISTING CONCRETE GRADE LEVEL. THE FINAL RESULT SHALL BE A SMOOTH FINISHED "BOX-OUT" AROUND THE SERVICE BOX WHICH SHALL FACILITATE EASY REMOVAL OF THE CAP.
20. WHEN A SEWER STRUCTURE FALLS WITHIN THE LIMITS OF A CONCRETE DRIVEWAY, THE CONTRACTOR SHALL PLACE EXPANSION MATERIAL IN A BOX APPROXIMATELY EIGHTEEN (18") INCHES FROM THE CENTER OF THE LID FORMING A SQUARE "BOX-OUT" AROUND THE FRAME. THE RESULT SHALL BE A CONDITION THAT WILL ALLOW FOR THE REMOVAL OF THE SQUARE OF CONCRETE FROM THE DRIVEWAY FOR THE PURPOSE OF REPLACING THE FRAME WITHOUT DAMAGING THE REMAINDER OF THE DRIVEWAY PAVEMENT.
21. THE LINE ITEM (CLASS D PATCHING, 13") SHALL BE USED ON STREETS THAT ARE NOT RECEIVING AN OVERLAY. ALL PERMANENT PATCHING OF UTILITY TRENCHES AND CROSSINGS SHALL BE COMPLETED WITHIN SEVENTY-TWO (72) HOURS AFTER THE UTILITY WORK HAS BEEN COMPLETED. SEE CURB AND PAVEMENT SECTION OF THE SPECIAL PROVISIONS FOR MORE INFORMATION.
22. ALL CONSTRUCTION PERSONNEL SHALL BE REQUIRED TO WEAR A FLUORESCENT YELLOW / GREEN SAFETY VEST AT ALL TIMES WHILE ON THE CONSTRUCTION SITE. THIS REQUIREMENT SHALL BE INCLUDED IN THE CONTRACT.

GENERAL NOTES - SEWERS:

1. STORM AND SANITARY STRUCTURE OFFSET LOCATIONS GIVEN ON THE PROJECT PLANS AND IN THE SEWER STRUCTURE SCHEDULES ARE TO THE FOLLOWING POINTS:
 - A) FOR STRUCTURES FALLING IN THE CURBLINE - FACE OF CURB
 - B) FOR ALL OTHER STRUCTURES - THE CENTER OF THE STRUCTURE
2. ALL SANITARY SEWER SHALL BE POLYVINYL CHLORIDE WATER-QUALITY PIPE CONFORMING TO SDR-26 (STANDARD DIMENSION RATIO), UNLESS NOTED OTHERWISE.
3. ALL STORM SEWER SHALL BE EITHER REINFORCED CONCRETE CULVERT PIPE, OR POLYVINYL CHLORIDE (PVC) PIPE WITH AN SDR RATING OF 26, AS SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL USE A LASER ALIGNMENT INSTRUMENT TO MAINTAIN VERTICAL SLOPE CONTROL DURING THE INSTALLATION OF NEW SEWER BETWEEN MANHOLES. THE EXCEPTION SHALL BE WHEN THE ENGINEER APPROVES ALTERNATE PROCEDURES OR IN SITUATIONS WHEN ONLY SECTIONS OF THE SEWER ARE BEING REPLACED.

5. ALL EXISTING SERVICES SHALL BE RECONNECTED TO THE PROPOSED STORM AND SANITARY SEWERS WHICH ARE BEING REPLACED AS PART OF THIS PROJECT. THIS WORK, INCLUDING ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO RECONNECT, SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE SEWER BEING INSTALLED OR REPLACED AND SHALL NOT BE PAID FOR SEPARATELY. IF A STORM OR SANITARY HOUSE SERVICE IS ENCOUNTERED AND BROKEN IN THE TRENCH DURING THE INSTALLATION OF A SEWER OR WATER MAIN, THE REPAIR OF THAT SERVICE SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN IN THESE PLANS AND SHALL BE MEASURED AND PAID FOR BY THE LINEAL FOOT AS (ADJUST SANITARY SEWER, 8" OR LESS). THIS PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO MAKE THE REPAIR.

6. THE REMOVAL OF EXISTING SEWERS AND SEWER STRUCTURES SHALL BE INCLUDED IN THE INSTALLATION OF THE NEW SEWERS AND SEWER STRUCTURES IF THE PROPOSED SEWERS AND SEWER STRUCTURES ARE PLACED IN A DIFFERENT LOCATION. THE REMOVAL OF THE EXISTING SEWERS AND SEWER STRUCTURES SHALL BE PAID FOR SEPARATELY.

7. ALL FRAMES WITH CLOSED LIDS BEING FURNISHED FOR THIS PROJECT AS CONSTRUCTION, ADJUSTMENT, OR RECONSTRUCTION OF ANY MANHOLE, CATCH BASIN, INLET, OR WATER VALVE VAULT SHALL HAVE CAST INTO THE LID ONE OR MORE OF THE FOLLOWING WORDS:

ALL LIDS BEING USED FOR STORM SEWER MANHOLES SHALL BEAR THE WORD "STORM". ALL LIDS BEING USED FOR SANITARY MANHOLES SHALL BEAR THE WORD "SANITARY". ALL LIDS BEING USED FOR CITY'S WATER SYSTEM STRUCTURES SHALL BEAR THE WORD "WATER". THE INCLUSION OF THESE LIDS SHALL BE INCLUDED IN THE COST OF THE APPROPRIATE CONTRACT LINE ITEM. ALL CURB INLET FRAMES SHALL BE STAMPED WITH A "FISH" SYMBOL DIRECTLY ON THE CURB BACK.

8. NO METAL RISER RINGS OR BRICK SHIMS SHALL BE USED TO ADJUST MANHOLES.

9. IF AT ANY TIME DURING THE CONSTRUCTION OF THIS PROJECT LOOSE MATERIAL IS DEPOSITED INTO THE FLOW LINE OF A SEWER STRUCTURE IN SUCH A WAY AS TO RESTRICT OR OBSTRUCT THE NATURAL FLOW OF WATER IN THE STRUCTURE, THE MATERIAL SHALL BE REMOVED BEFORE THE CLOSE OF THE WORKING DAY DURING WHICH IT WAS DEPOSITED. AT THE CONCLUSION OF CONSTRUCTION ACTIVITIES, AND BEFORE THE CITY ACCEPTS THE PROJECT, ALL SEWERS AND SEWER STRUCTURES THAT FALL WITHIN THE LIMITS OF THE PROJECT SHALL BE FREE OF CONSTRUCTION DEBRIS AND LOOSE MATERIAL. ALL LABOR, EQUIPMENT, AND MATERIALS TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE CONTRACT AND SHALL NOT BE PAID FOR SEPARATELY.

| LEGEND | EXISTING | PROPOSED |
|--|----------|----------|
| MAIL BOX | M | |
| HANDHOLD | HH | |
| EVERGREEN TREE | | |
| DECIDUOUS TREE | | |
| BUSH | | |
| PAVEMENT BUTT JOINT | | //// |
| CONCRETE DRIVEWAY | | |
| ASPHALT DRIVEWAY | | |
| DRIVEWAY / SIDEWALK REMOVAL | | XXXX |
| POWER POLE | ○ | |
| TELEPHONE BOX | T | |
| B-BOX | ○ | ● |
| FIRE HYDRANT | ○ | ● |
| VALVE | ⊗ | ⊙ |
| VALVE VAULT | ⊗ | ⊙ |
| ABANDON VALVE VAULT | | ⊗ |
| WATER MAIN | — WM — | — WM — |
| MANHOLE | ⊙ | ⊙ |
| ABANDON MANHOLE | | ⊗ |
| CATCH BASIN | ○ | ● |
| INLET | □ | ■ |
| STORM SEWER LINE | — | — |
| SANITARY SEWER LINE | — | — |
| GAS MAIN | — GAS — | |
| INDICATES STORM MANHOLE | | ⊙ |
| INDICATES SANITARY MANHOLE | | ⊙ |
| INDICATES STORM SEWER STRUCTURE | | ⊙ |
| INDICATES VALVE TO BE ADJUSTED | | ⊙ |
| INDICATES TYPICAL CROSS SECTION LOCATION | | ? |

| LIST OF ABBREVIATIONS | | | |
|-----------------------|--------------------------|-------|--------------------------|
| CB | CATCH BASIN | SF | SQUARE FEET |
| C&G | CURB & GUTTER | SY | SQUARE YARDS |
| DIA. | DIAMETER | T1FCL | TYPE 1 FRAME, CLOSED LID |
| FR | FRAME | T1FOL | TYPE 1 FRAME, OPEN LID |
| HMA | HOT-MIX ASPHALT | WM | WATER MAIN |
| INV. | INVERT | TBA | TO BE ADJUSTED |
| LF | LINEAL FEET | STM | STORM |
| MH | MANHOLE | SAN | SANITARY |
| P.C.C. | PORTLAND CEMENT CONCRETE | WQ | WATER QUALITY |

NOTE: ALL BOXED IN NOTATIONS INDICATE INFORMATION PERTAINING TO WORK TO BE INCLUDED IN THE COST OF SPECIFIC CONTRACT LINE ITEMS.

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CITY OF WHEATON
ENGINEERING DEPARTMENT
303 WEST WESLEY STREET
WHEATON, ILLINOIS 60187
PHONE 630.260.2065
WWW.WHEATON.IL.US



thomas engineering group, llc
762 shoreline drive
suite 200
aurora, illinois 60504
phone: 855-533-1700

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|---|----------------------|--------------------------------------|
| WEST STREET WATER MAIN REPLACEMENT CITY OF WHEATON | GENERAL NOTES | DRAWING NO. 2 OF 19 |
|---|----------------------|--------------------------------------|

TRAFFIC STANDARDS & DETAILS

STANDARDS: 701501-06, 701602-08, 701606-10, 701611-01, 701701-08, 701901-05, 780001-05, 781001-04, 701801-06, 886001-01, 886006-01

DETAILS: TC-10, TC-13, TC-14, TC-16, TC-21, TC-22, TC-26, TC-05

SPECIAL PROVISIONS: TRAFFIC CONTROL AND PROTECTION, LRS 3 WORK ZONE TRAFFIC CONTROL, LRS 4 FLAGGERS IN WORK ZONES, DISTRICT 1 - MAINTENANCE OF ROADWAYS

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL PROPERTIES DURING CONSTRUCTION.
2. WORK NEAR THE COMMERCIAL DISTRICTS SHALL BE CAREFULLY PLANNED BY THE CONTRACTOR TO REDUCE DISRUPTION TO THE BUSINESSES AND THE PUBLIC SEEKING TO ACCESS THE BUSINESSES.
3. RESIDENTS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO LANE AND PARKING CLOSURES.
4. IN COMMERCIAL DISTRICTS, THE OWNERS SHALL BE NOTIFIED IN WRITING A MINIMUM OF 5 BUSINESS DAYS PRIOR TO LANE AND PARKING CLOSURES.
5. SIDE ROAD ACCESS MUST BE MAINTAINED DURING CONSTRUCTION. TEMPORARY PAVEMENT (COLD PATCH) QUANTITY IS INCLUDED TO RE-ESTABLISH ACCESS. TEMPORARY RAMPS AND A SUITABLE DRIVING SURFACE SHALL BE PROVIDED FOR CROSS TRAFFIC IMMEDIATELY FOLLOWING CONSTRUCTION ACROSS AN INTERSECTION.
6. THE MAXIMUM ALLOWABLE LANE DROP DIFFERENTIAL WILL BE 1 1/2".
7. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE CITY OF WHEATON AND THE ENGINEER.
8. TWO WAY TRAFFIC ALONG WEST STREET SHALL BE MAINTAINED IN ACCORDANCE WITH HIGHWAY STANDARDS 701602, 701606, 701611, AND 701701.
9. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT DETAILED WORK SCHEDULES AND DETOURS FOR EACH PROPOSED DETOUR ALONG THE PROJECT CORRIDOR. THE COST OF DETOURS WILL BE INCLUDED IN THE LUMP SUM PRICE OF TRAFFIC CONTROL AND PROTECTION (DETOUR). DETOURS SHALL BE APPROVED BY THE CITY OF WHEATON AND THE ENGINEER PRIOR TO THE CONTRACTOR ESTABLISHING LANE CLOSURES IN ANY AREA. WEST STREET DETOURS WILL BE REQUIRED TO DIRECT TRAFFIC TO EITHER CARLTON AVENUE OR MAIN STREET.
10. WHEN STANDARD 701611 IS IN EFFECT, REFLECTIVE PAVEMENT MARKINGS SHALL BE USED WHEN THE CLOSURE TIME EXCEEDS FOUR DAYS. THE DOUBLE YELLOW CENTERLINE SHALL BE USED IN THE TWO-WAY TRAFFIC AREA IN ADDITION TO THE BARRICADES OR DRUMS. SINGLE YELLOW LEFT EDGE LINE SHALL BE USED TO OUTLINE THE BARRICADE ISLAND. WHITE RIGHT EDGE LINE SHALL BE USED ALONG THE BARRICADES DELINEATING THE WORK AREA.
11. ANY SIDEWALK CLOSURES REQUIRED ALONG THE PROJECT CORRIDOR SHALL BE DONE ACCORDING TO HIGHWAY STANDARD 701801.
12. TRAFFIC CONTROL DEPICTED IN THESE PLANS AND THE APPLICABLE IDOT DETAILS AND STANDARDS ARE THE MINIMUM REQUIREMENTS. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, DIVISION 700; APPLICABLE GUIDELINES IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; AND APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL, UNLESS HEREIN REVISED.
13. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
14. ALL CONSTRUCTION SIGNS SHALL HAVE FLUORESCENT ORANGE BACKGROUNDS.
15. ALL SIGNS SHALL BE MOUNTED ON METAL POSTS, 7 FEET ABOVE THE EXISTING GROUND AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A J.U.L.I.E. LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS.
16. BARRICADES WITH MONO-DIRECTIONAL STEADY -BURN LIGHTS WILL BE REQUIRED ADJACENT TO PAVEMENT EDGES WHERE PAVING, CURB AND GUTTER OVERLAYING WORK IS BEING DONE, AS SPECIFIED IN SECTION 701 OF THE STANDARD SPECIFICATIONS. SPACING SHALL BE AS SHOWN ON THE CONSTRUCTION STAGING PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOPS OF THE BARRICADES ARE IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901.
17. ALL BARRICADES AT LANE DIVERSIONS WITHIN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS.
18. BARRICADES EQUIPPED WITH ONE-WAY FLASHING LIGHTS WILL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, AND AT ANY OTHER LOCATIONS DESIGNATED BY THE ENGINEER OR LAW ENFORCEMENT AGENCIES. BARRICADES SHALL BE PLACED AT 50' CENTERS ALONG TANGENTS, 25' ALONG TAPERS AND 10' AROUND RADII.
19. BARRICADES SHALL HAVE ALTERNATING REFLECTORIZED TYPE AA OR TYPE AP FLUORESCENT ORANGE AND REFLECTORIZED WHITE HORIZONTAL, CIRCUMFERENTIAL STRIPES.

20. BARRICADES SHALL MEET THE REQUIREMENTS OF THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 AND THE SUPPLEMENTAL SPECIAL PROVISION "WORK ZONE TRAFFIC CONTROL DEVICES."
21. TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.
22. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY STAGE CHANGE AT LEAST ONE WEEK IN ADVANCE OF THE CHANGE.
23. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED. ANY DAMAGE CAUSED BY HIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
24. THE FIRST WARNING SIGNS IN EACH DIRECTION OF TRAVEL SHALL BE EQUIPPED WITH MONO-DIRECTIONAL AMBER FLASHING LIGHTS DURING HOURS OF DARKNESS. FLAGS ARE OPTIONAL.
25. "WORKERS" SIGNS SHALL ONLY BE ERECTED WHEN WORKERS ARE PRESENT. SIGN MUST BE COVERED OR REMOVED WHEN NO WORKERS ARE PRESENT.
26. ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES, AND SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION."
27. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, DRUMS, WARNING LIGHTS, SIGNS, AND TEMPORARY PAVEMENT MARKINGS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION."
28. CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED FOR 7 CALENDAR DAYS PRIOR TO EACH NEW LANE CLOSURE. THE ENGINEER SHALL APPROVE THE MESSAGE TO BE DISPLAYED. THIS WORK WILL BE PAID FOR AS "CHANGEABLE MESSAGE SIGN."

3. ALL THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH HIGHWAY STANDARDS 701602, 701606, 701611, AND 701701. THE CLOSED LANE SHALL NOT BE RE-OPENED UNTIL ALL CURB AND GUTTER REPLACEMENT AND PERMANENT PATCHING HAS BEEN COMPLETED. TEMPORARY PATCHING, MEETING THE APPROVAL OF THE ENGINEER, WILL BE ALLOWED IF THE CONTRACTOR ELECTS TO PERFORM ALL THE PERMANENT PATCHING AFTER ALL WATER MAIN IS COMPLETE. HOWEVER, THE COST TO CONSTRUCT, MAINTAIN, AND REMOVE TEMPORARY PATCHES WILL BE PAID FOR BUT SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR MAY PERMANENTLY CLOSE THE NORTHBOUND LANES FROM IL ROUTE 38 TO EVERGREEN STREET IN ONE CONTINUOUS SECTION, WHEN THE DETOUR IS IN EFFECT.
5. THE CONTRACTOR MAY PERMANENTLY CLOSE THE OUTSIDE NORTHBOUND THROUGH LANE FOR THE PROJECT LIMITS IN ONE CONTINUOUS SECTION.
6. THE CONTRACTOR SHALL BE ALLOWED TO CLOSE BOTH THE OUTSIDE NB AND SB LANES IF WORK IS BEING PERFORMED SIMULTANEOUSLY ON THE EAST AND WEST SIDES OF WEST STREET.
7. THE SOUTHBOUND LEFT TURN LANE FROM WEST STREET TO ROOSEVELT ROAD SHALL REMAIN OPEN AT ALL TIMES.
8. EXCEPT FOR APPROVED CLOSURES AS DEPICTED ON THE MAINTENANCE OF TRAFFIC PLANS AND AS DESCRIBED ON THE NOTES IN THE UPPER LEFT CORNER OF THIS SHEET, ALL ROADS SHALL BE KEPT OPEN TO TRAFFIC DURING THE ENTIRE CONSTRUCTION PERIOD. NORTHBOUND LANES MAY BE CLOSED BETWEEN IL ROUTE 38 AND EVERGREEN STREET IN ACCORDANCE WITH THIS PLAN FOR A MAXIMUM OF 5 BUSINESS DAYS FOR WATER MAIN WORK AND PAVEMENT PATCHING.

Suggested Sequence of Construction

- 1A. Perform Cut-in connection and complete all work between Station 100+70 (IL Route 38) and Station 104+00 (Evergreen Street) during the planned detour (refer to MOT and Detour Plans). The Detour may be in effect for a maximum of 5 business days for water main construction and pavement restoration.
1. Stage 1 (Refer to Removal Plans Stage 1): Cut and install end caps to disconnect of all service connections to the existing transmission main.
2. Stage 2 (Refer to Water Main Plans and Removal Plans Stage 2): Installation and testing of the new 12" ductile iron water main. Following successful testing and chlorination of the new main, all water services and connections are to be transferred and permanently connected to the new 12" ductile iron water main.
3. Stage 3 (Refer to Removal Plans Stage 3): Abandonment of the existing distribution and removal of fire hydrants main. Prior to abandonment of the existing transmission main, all water services and connections are to be fed from the new 12" ductile iron water main.
4. During Stages 1 thru 3, Two-way Traffic shall be maintained in accordance with Highway Standards 701602, 701606, 701611, and 701701.

TRAFFIC SIGNALS

1. FOR THE DURATION OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL RETAIN AN IDOT PREQUALIFIED ELECTRICAL CONTRACTOR TO ASSUME MAINTENANCE OF THE FOLLOWING IDOT TRAFFIC SIGNALS WITHIN THE CONSTRUCTION LIMITS.
2. THE CONTRACTOR SHALL CONTACT THE BUREAU OF TRAFFIC, TRAFFIC SIGNAL DESIGN UNIT, MR. DARYL DREW AT (847) 705-4424 NO LESS THAN SEVEN WORKING DAYS PRIOR TO WORK FOR TRANSFER OF MAINTENANCE FOR THE DURATION OF CONSTRUCTION.
3. ALL EXCAVATIONS SHALL BE KEPT TO A MINIMUM AT TRAFFIC SIGNAL FACILITIES TO AVOID POSSIBLE DAMAGE TO DETECTOR LOOPS, HAND HOLES, AND OTHER APPURTENANCES. ANY DAMAGE TO THE EXISTING TRAFFIC SIGNAL INSTALLATION OR EXISTING INTERCONNECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND THE IDOT TRAFFIC CONTROL SUPERVISOR AT NO ADDITIONAL COST TO THE CONTRACT.

LANE CLOSURE RESTRICTIONS - GENERAL

1. BARRICADES SHALL BE PLACED AT 50' CENTERS ALONG THE CLOSED LANE. ADDITIONAL BARRICADES SHALL BE PLACED AT SIDE STREETS AND DRIVEWAYS THAT ARE TO REMAIN OPEN. DRIVEWAY ENTRANCE SIGNS IN ACCORDANCE WITH TC-26 SHALL BE PLACED AT ALL DRIVEWAYS WITHIN THE CLOSED LANE ADDITIONAL BARRICADES SHALL BE PLACED WITHIN THE CLOSED LANE AT LOCATIONS DIRECTED BY THE ENGINEER TO PREVENT TRAFFIC FROM ENTERING THE CLOSED LANE.
2. CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED FOR 7 CALENDAR DAYS PRIOR TO THE LANE CLOSURES. THE ENGINEER SHALL APPROVE THE MESSAGE TO BE DISPLAYED. THIS WORK WILL BE PAID FOR AS "CHANGEABLE MESSAGE SIGN."

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PHONE 630.260.2065
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thomas engineering group, llc
762 shoreline drive
suite 200
aurora, illinois 60504
phone: 855-533-1700

**WEST STREET
WATER MAIN REPLACEMENT
CITY OF WHEATON**

**MAINTENANCE OF TRAFFIC
GENERAL NOTES**

DRAWING NO.

3 OF **19**

| PAY | DESCRIPTION | UNIT | TOTAL QUANTITY |
|------|---|-------|----------------|
| CODE | | | |
| 1 | DUST CONTROL WATERING | UNIT | 50 |
| 2 | SUPPLEMENTAL WATERING | UNIT | 10 |
| 3 | TRENCH BACKFILL | CY | 2224 |
| 4 | TOPSOIL FURNISH AND PLACE, 4" | CY | 28 |
| 5 | EXPLORATORY EXCAVATION | EACH | 5 |
| 6 | EXPLORATORY TRENCH | EACH | 5 |
| 7 | TREE ROOT PRUNING | EACH | 15 |
| 8 | SODDING | SY | 259 |
| 9 | INLET FILTERS | EACH | 15 |
| 10 | AGGREGATE FOR TEMPORARY ACCESS | TON | 100 |
| 11 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 550 |
| 12 | SIDEWALK REMOVAL | SF | 902 |
| 13 | DRIVEWAY PAVEMENT REMOVAL | SY | 15 |
| 14 | P.C.C. SIDEWALK, 4" | SF | 902 |
| 15 | DETECTABLE WARNINGS | SF | 16 |
| 16 | P.C.C. DRIVEWAY PAVEMENT, 5" | SY | 15 |
| 17 | CLASS D PATCHING, TYPE I, 13" | SY | 50 |
| 18 | CLASS D PATCHING, TYPE II, 13" | SY | 89 |
| 19 | CLASS D PATCHING, TYPE III, 13" | SY | 50 |
| 20 | CLASS D PATCHING, TYPE IV, 13" | SY | 1019 |
| 21 | STORM SEWER REMOVAL, 12" | FOOT | 83 |
| 22 | STORM SEWER REMOVAL, 30" | FOOT | 35 |
| 23 | SANITARY SEWER REMOVAL, 10" | FOOT | 49 |
| 24 | SANITARY SEWER REMOVAL, 12" | FOOT | 68 |
| 25 | STORM SEWER, PVC, SDR-26, 12" WATER QUALITY PIPE | FOOT | 83 |
| 26 | STORM SEWER, PVC, SDR-26, 30" WATER QUALITY PIPE | FOOT | 35 |
| 27 | SANITARY SEWER, PVC, SDR-26, 10" WATER QUALITY PIPE | FOOT | 49 |
| 28 | SANITARY SEWER, PVC, SDR-26, 12" WATER QUALITY PIPE | FOOT | 68 |
| 29 | WATER MAIN, DIP, CL 52, PUSH JOINTS, TRENCHED, 6" | FOOT | 89 |
| 30 | WATER MAIN, DIP, CL 52, PUSH JOINTS, TRENCHED, 8" | FOOT | 31 |
| 31 | WATER MAIN, DIP, CL 52, PUSH JOINTS, TRENCHED, 12" | FOOT | 1342 |
| 32 | WATER VALVES, 6" | EACH | 1 |
| 33 | WATER VALVES, 8" | EACH | 6 |
| 34 | WATER VALVES, 12" | EACH | 5 |
| 35 | FIELD LOK GASKETS FOR DUCTILE IRON WATER MAIN | EACH | 45 |
| 36 | FIRE HYDRANTS | EACH | 2 |
| 37 | WATER SERVICE LINE, 1" | FOOT | 932 |
| 38 | WATER SERVICE LINE, 1-1/4" | FOOT | 250 |
| 39 | WATER SERVICE LINE, 1-1/2" | FOOT | 250 |
| 40 | WATER SERVICE (COMPLETE) | EACH | 29 |
| 41 | CUT & INSTALL ENDCAPS | EACH | 10 |
| 42 | CUT IN CONNECTIONS | EACH | 9 |
| 43 | COMBINATION CONCRETE CURB AND GUTTER, B-6.12 | FOOT | 497 |
| 44 | COMBINATION CONCRETE CURB AND GUTTER, B-6.24 | FOOT | 53 |
| 45 | HMA DRIVEWAY PAVEMENT, 2" | SQ YD | 30 |

| PAY | DESCRIPTION | UNIT | TOTAL QUANTITY |
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| CODE | | | |
| 46 | DETECTOR LOOP REPLACEMENT | FOOT | 100 |
| 47 | POLYETHYLENE ENCASEMENT , SPECIAL | FOOT | 1422 |
| 48 | COLD PATCH | TON | 5 |
| 49 | PRESSURE CONNECTION, 8" | EACH | 1 |
| 50 | PRESSURE CONNECTION, 12" | EACH | 1 |
| 51 | WATER MAIN REMOVAL, 12" | FOOT | 1330 |
| 52 | FIRE HYDRANTS TO BE REMOVED | EACH | 2 |
| 53 | VALVE BOXES TO BE REMOVED | EACH | 6 |
| 54 | ADJUST SANITARY SEWER, 8" OR LESS | FOOT | 200 |
| 55 | UTILITY STRUCTURE ADJUSTMENT | EACH | 8 |
| 56 | NON-SPECIAL WASTE DISPOSAL | CU YD | 50 |
| 57 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 50 |
| 58 | POROUS GRANULAR MATERIAL | CU YD | 50 |
| 59 | THERMOPLASTIC PAVEMENT MARKINGS- LETTERS AND SYMBOLS | SQ FT | 438 |
| 60 | THERMOPLASTIC PAVEMENT MARKINGS- LINE 4" | FOOT | 2484 |
| 61 | THERMOPLASTIC PAVEMENT MARKINGS- LINE 6" | FOOT | 306 |
| 62 | THERMOPLASTIC PAVEMENT MARKINGS- LINE 24" | FOOT | 167 |
| 63 | PAVEMENT MARKING TAPE, 4" | FOOT | 2000 |
| 64 | TRAFFIC CONTROL & PROTECTION | LS | 1 |
| 65 | TRAFFIC CONTROL & PROTECTION FOR TEMPORARY DETOUR | LS | 1 |
| 66 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| 67 | TEMPORARY INFORMATION SIGNING | SQ FT | 100 |
| 68 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 667 |
| 69 | CHANGEABLE MESSAGE SIGN | CAL MO | 4 |
| 70 | CONSTRUCTION LAYOUT | LS | 1 |

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 303 WEST WESLEY STREET
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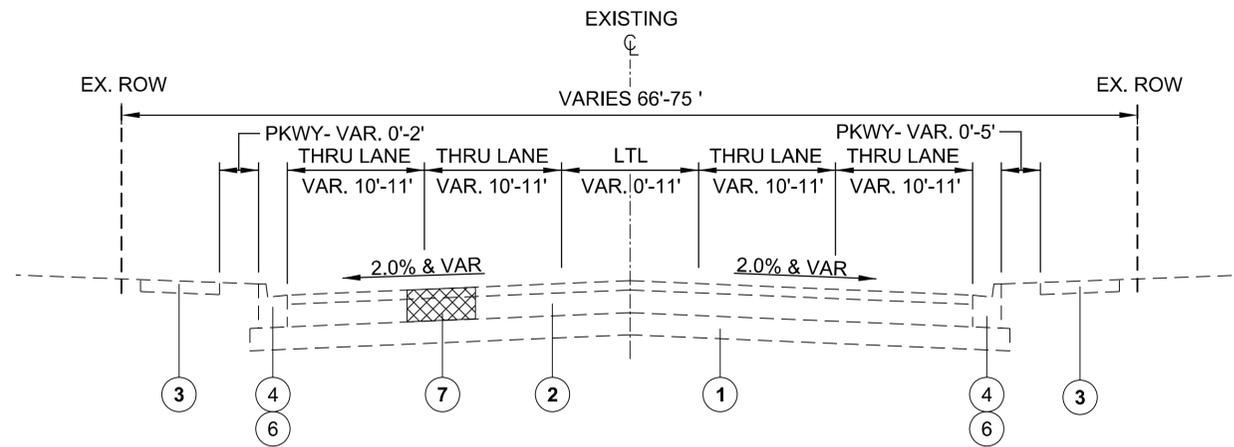
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WEST STREET
 WATER MAIN REPLACEMENT
 CITY OF WHEATON

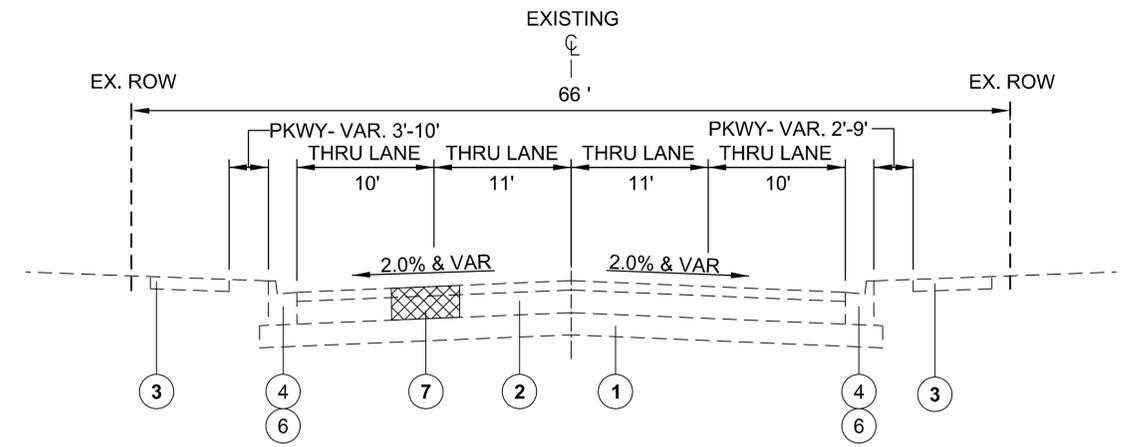
SUMMARY OF QUANTITIES

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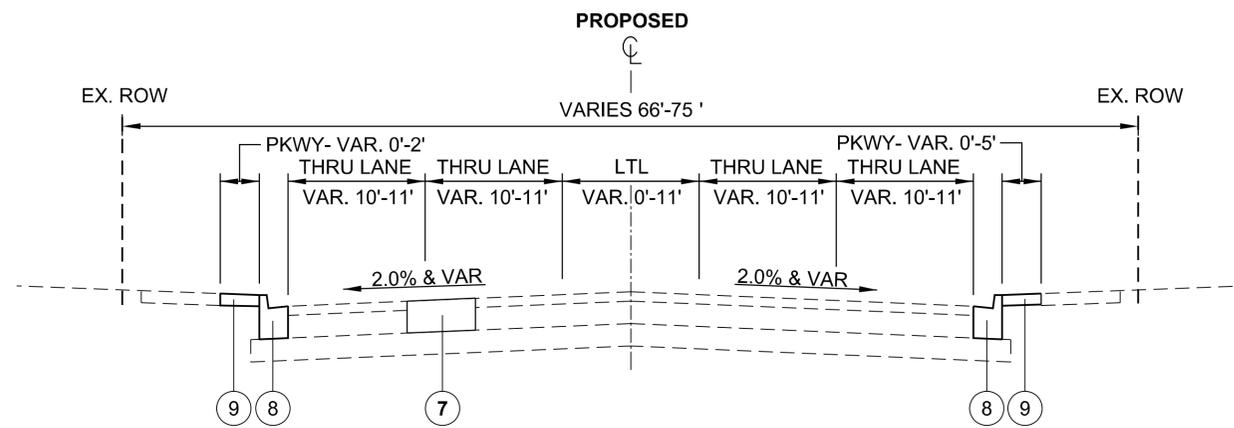
4 OF 19



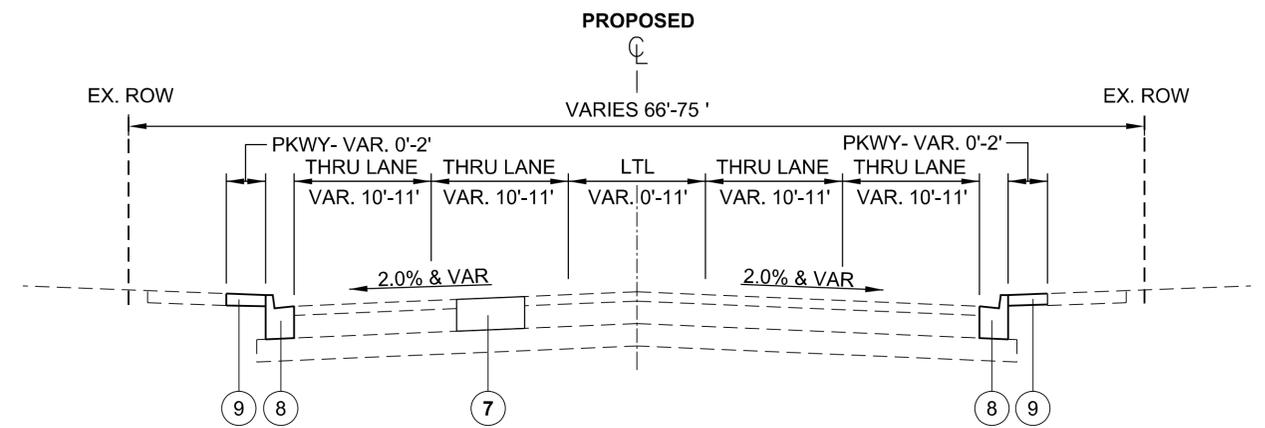
EXISTING TYPICAL SECTION
WEST STREET
STA. 100+10 TO STA. 107+06



EXISTING TYPICAL SECTION
WEST STREET
STA. 107+06 TO STA. 114+00



PROPOSED TYPICAL SECTION
WEST STREET
STA. 100+10 TO STA. 107+06



PROPOSED TYPICAL SECTION
WEST STREET
STA. 107+06 TO STA. 114+00

LEGEND

- 1 EX SUB-BASE GRAN MATL, THICKNESS VARIES
- 2 EX HMA PAVEMENT, 13"
- 3 EX PCC SIDEWALK
- 4 EX COMB. CONC. CURB AND GUTTER
- 6 COMB. CURB AND GUTTER REMOVAL (SEE NOTE 1)
- 7 PR CLASS D PATCHES, 13" (SEE NOTE 1)
- 8 PR COMB CONC CURB AND GUTTER, TY B-6.12 (SEE NOTE 1)
- 9 PR PARKWAY RESTORATION (SEE NOTE 1)

| HOT-MIX ASPHALT MIXTURE REQUIREMENTS | |
|--|------------------|
| MIXTURE TYPE | AIR VOIDS @ Ndes |
| CLASS D PATCHING, 13" | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2" | 4% @ 70 Gyr. |
| LEVELING BINDER (MM), N70, 11" | 4% @ 70 Gyr. |

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIALS PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

NOTES:

- 1. LOCATIONS WILL BE SPECIFIED BY THE ENGINEER IN THE FIELD DURING CONSTRUCTION

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303 WEST WESLEY STREET
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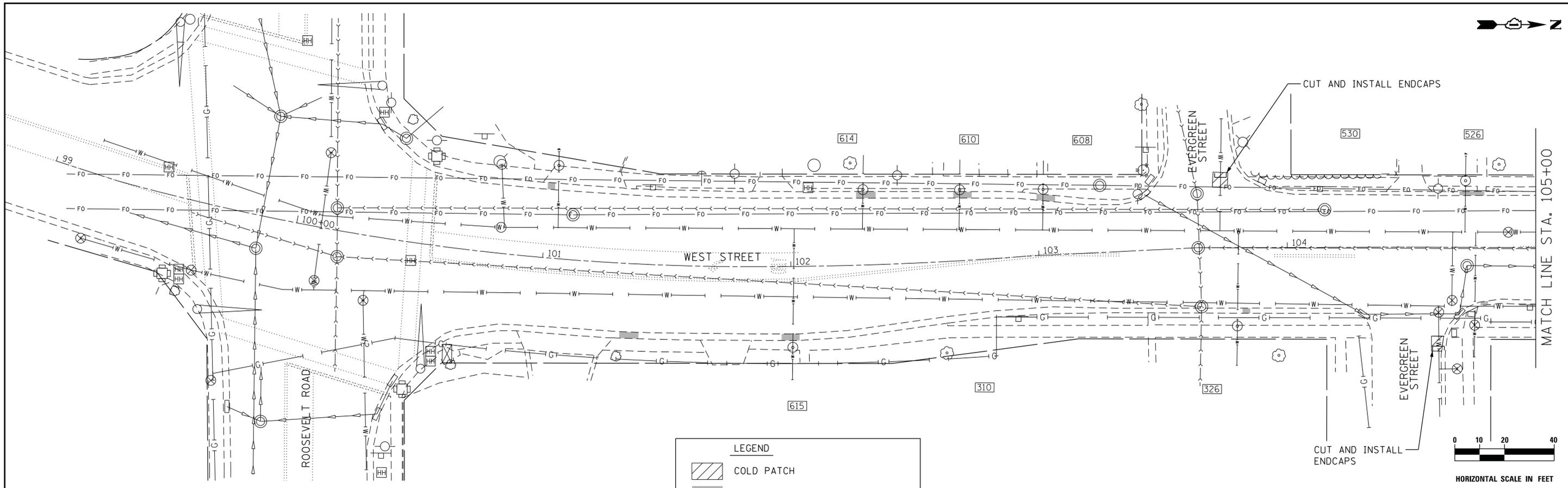
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762 shoreline drive
suite 200
aurora, illinois 60504
phone: 855-533-1700

WEST STREET
WATER MAIN REPLACEMENT
CITY OF WHEATON

TYPICAL SECTIONS

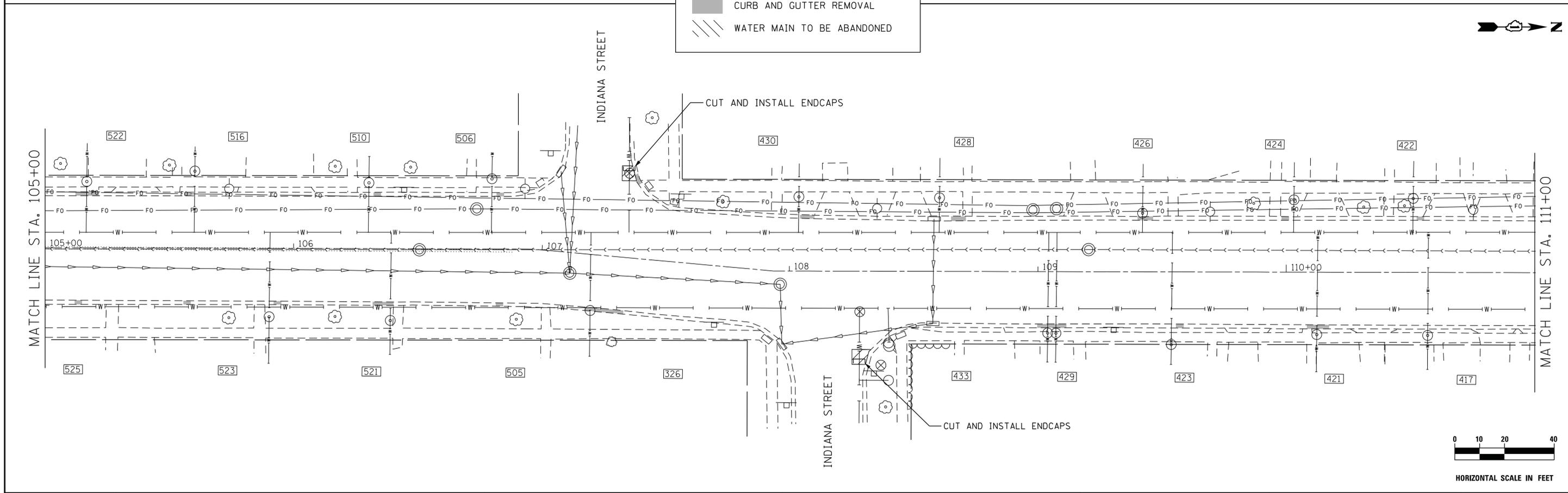
DRAWING NO.

5 OF 19



LEGEND

- COLD PATCH
- CURB AND GUTTER REMOVAL
- WATER MAIN TO BE ABANDONED



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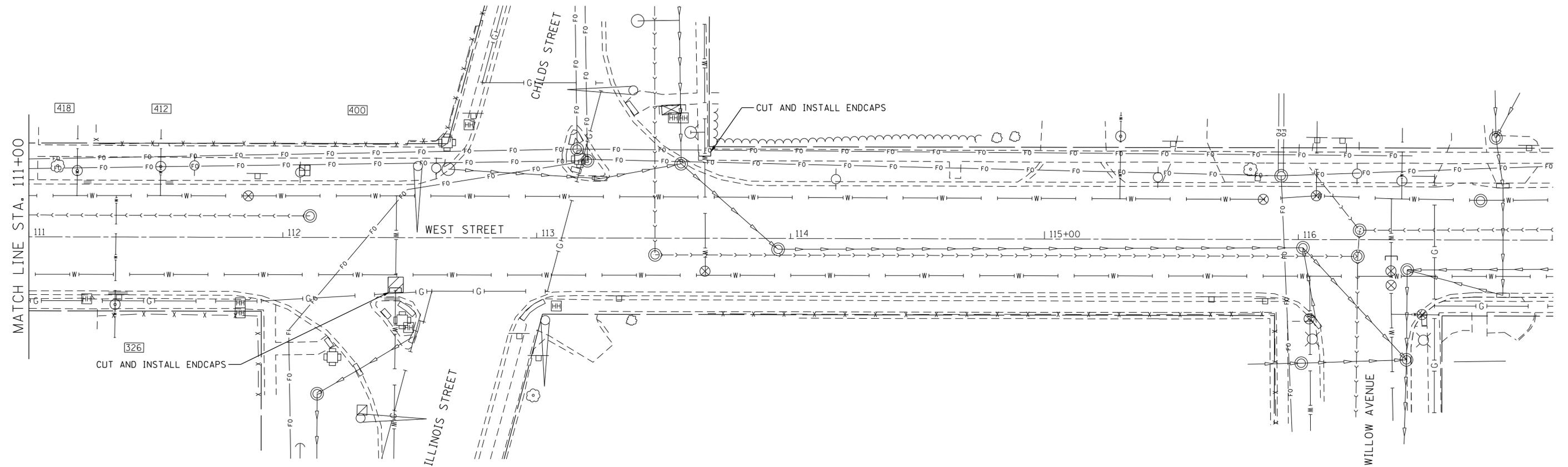
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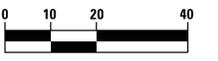
REMOVAL PLANS
STAGE 1

DRAWING NO.
6 OF 19



LEGEND

- COLD PATCH
- CURB AND GUTTER REMOVAL
- WATER MAIN TO BE ABANDONED



HORIZONTAL SCALE IN FEET

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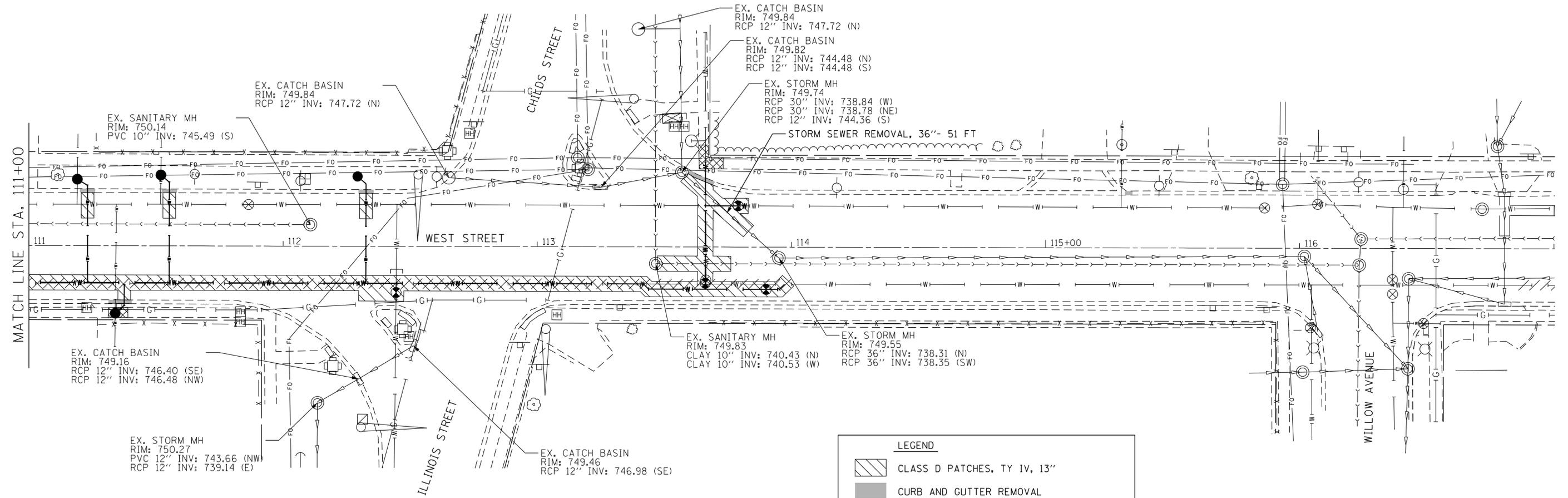


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 762 shoreline drive
 suite 200
 aurora, illinois 60504
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WEST STREET
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CITY OF WHEATON

REMOVAL PLANS
STAGE 1

DRAWING NO.
7 OF 19

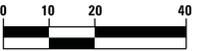


LEGEND

- CLASS D PATCHES, TY IV, 13"
- CURB AND GUTTER REMOVAL
- WATER MAIN TO BE ABANDONED
- SIDEWALK REMOVAL

NOTES:

1. PRIOR TO WATER MAIN ABANDONMENT, ALL EXISTING WATER SERVICES AND CONNECTIONS ARE TO BE TRANSFERRED TO THE NEW WATER MAIN FOLLOWING SUCCESSFUL TESTING AND CHLORINATION
2. REFER TO SHEETS 11 TO 13 FOR PROPOSED WATER MAIN PLANS



HORIZONTAL SCALE IN FEET

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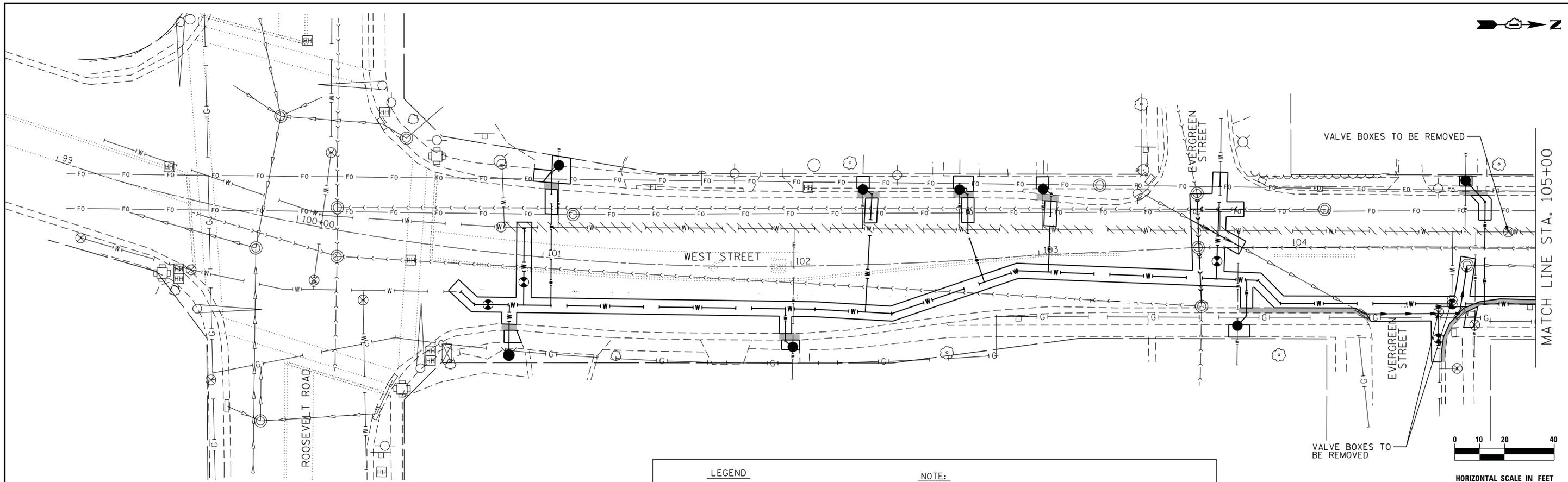
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303 WEST WESLEY STREET
WHEATON, ILLINOIS 60187
PHONE 630.263.2065
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suite 200
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phone: 855-533-1700

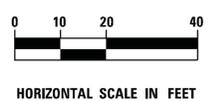
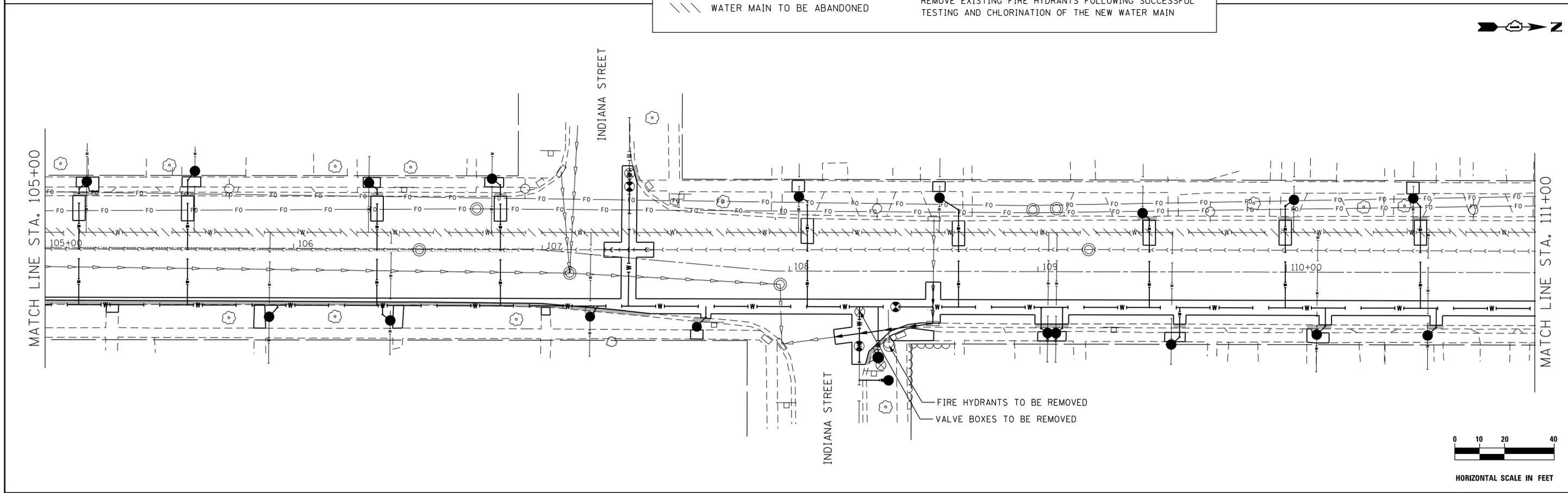
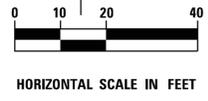
WEST STREET
WATER MAIN REPLACEMENT
CITY OF WHEATON

REMOVAL PLANS
STAGE 2



LEGEND
 \\\ WATER MAIN TO BE ABANDONED

NOTE:
 REMOVE EXISTING FIRE HYDRANTS FOLLOWING SUCCESSFUL TESTING AND CHLORINATION OF THE NEW WATER MAIN



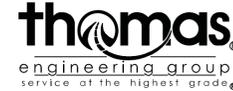
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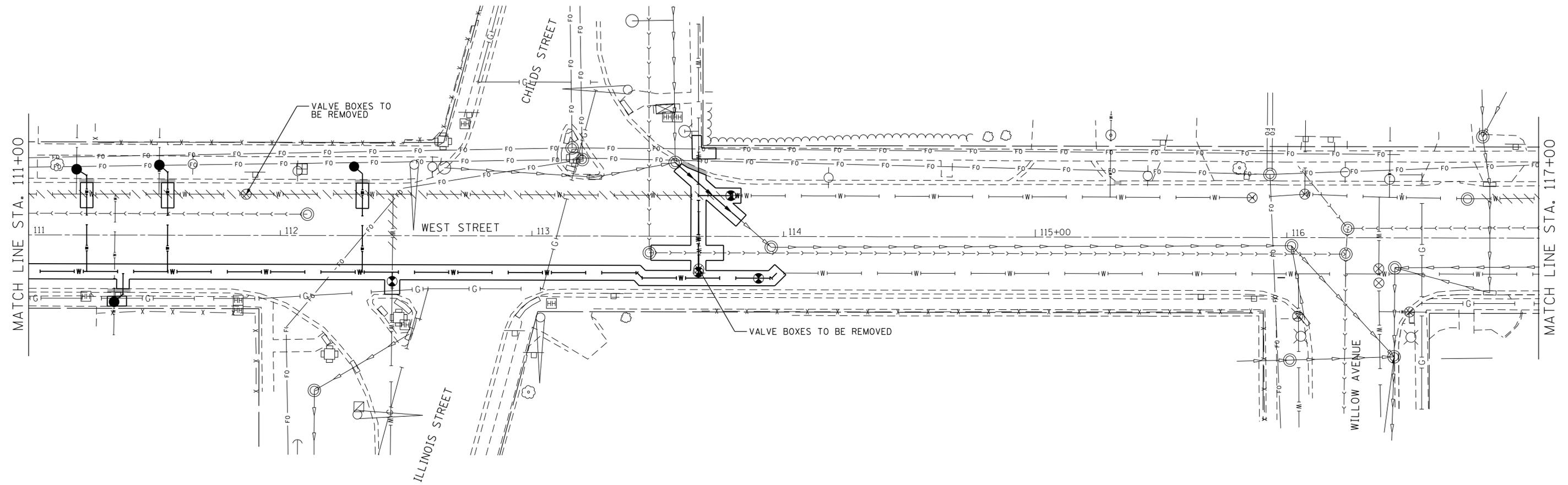


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WEST STREET
WATER MAIN REPLACEMENT
CITY OF WHEATON

STAGE 3
REMOVAL PLANS

DRAWING NO.
10 OF 19



LEGEND

| | | |
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| | CLASS D PATCHES, TY IV, 13" | NOTE: REMOVE EXISTING FIRE HYDRANTS FOLLOWING SUCCESSFUL TESTING AND CHLORINATION OF THE NEW WATER MAIN |
| | CURB AND GUTTER REMOVAL | |
| | WATER MAIN TO BE ABANDONED | |



HORIZONTAL SCALE IN FEET

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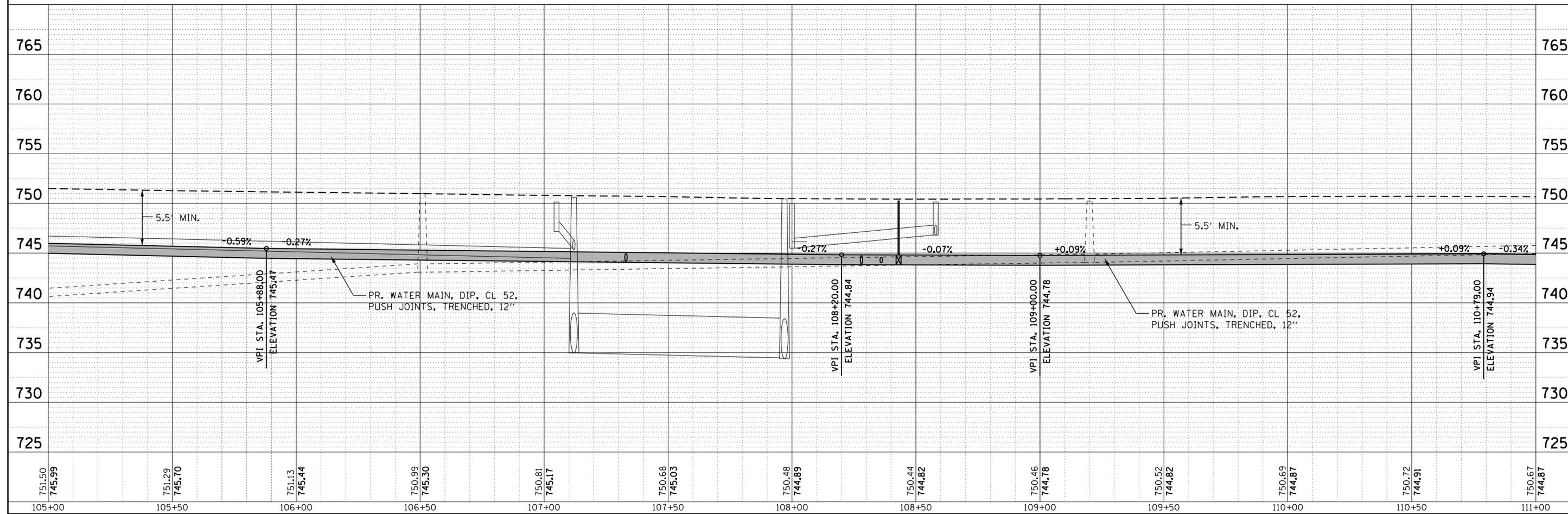
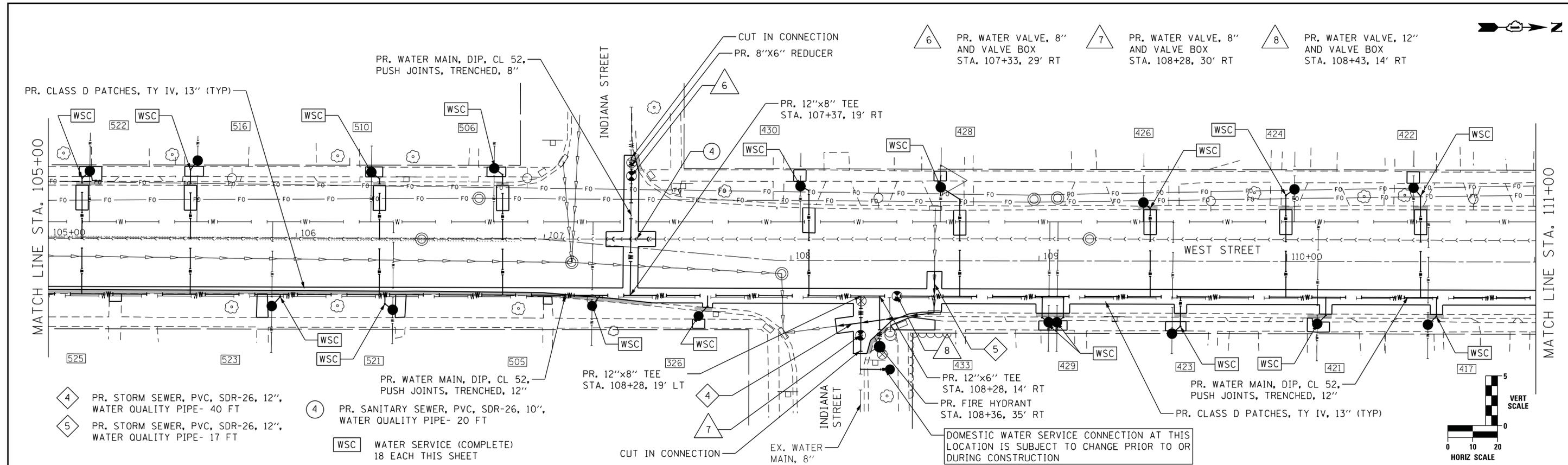


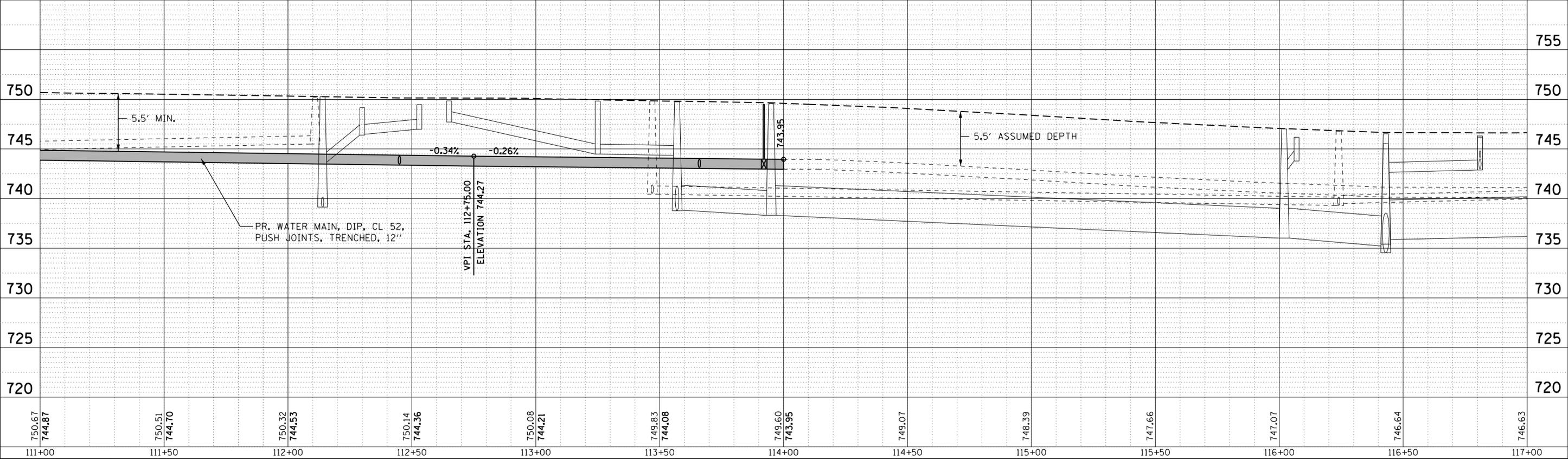
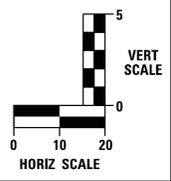
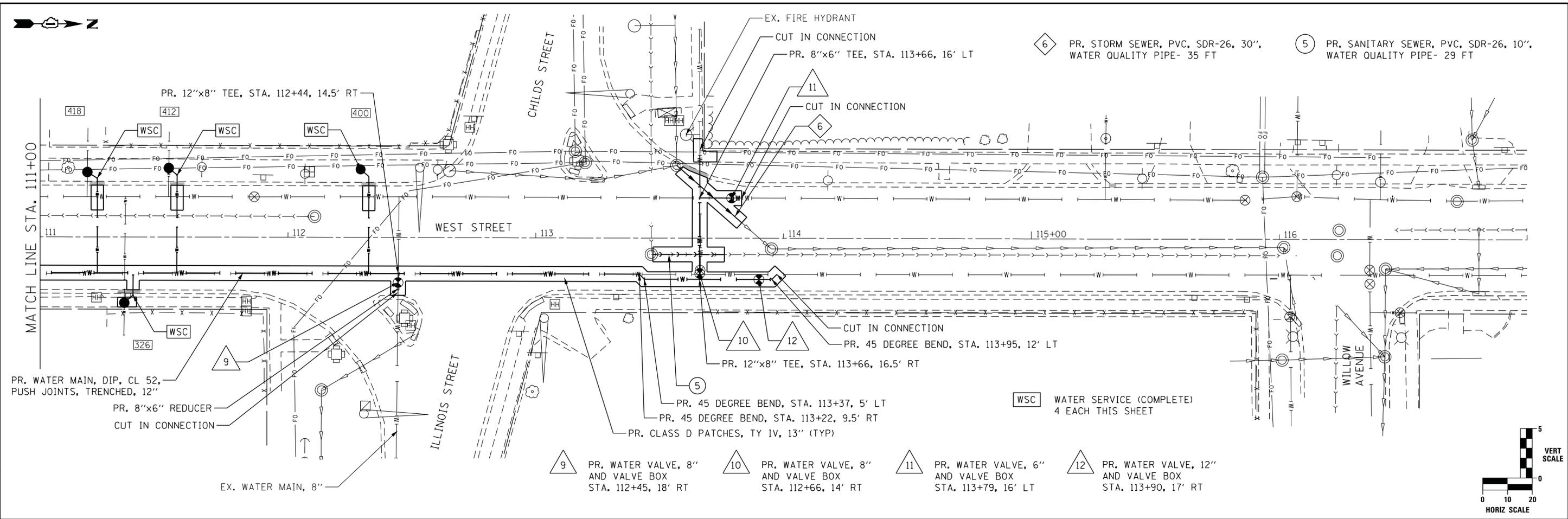
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WATER MAIN REPLACEMENT
CITY OF WHEATON

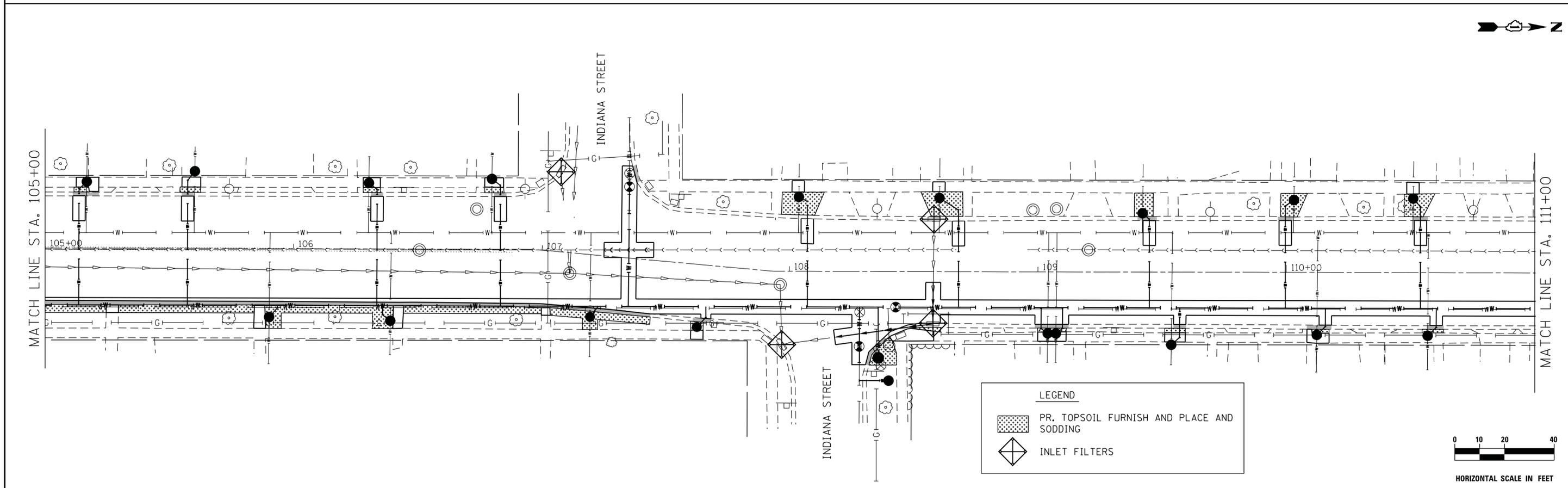
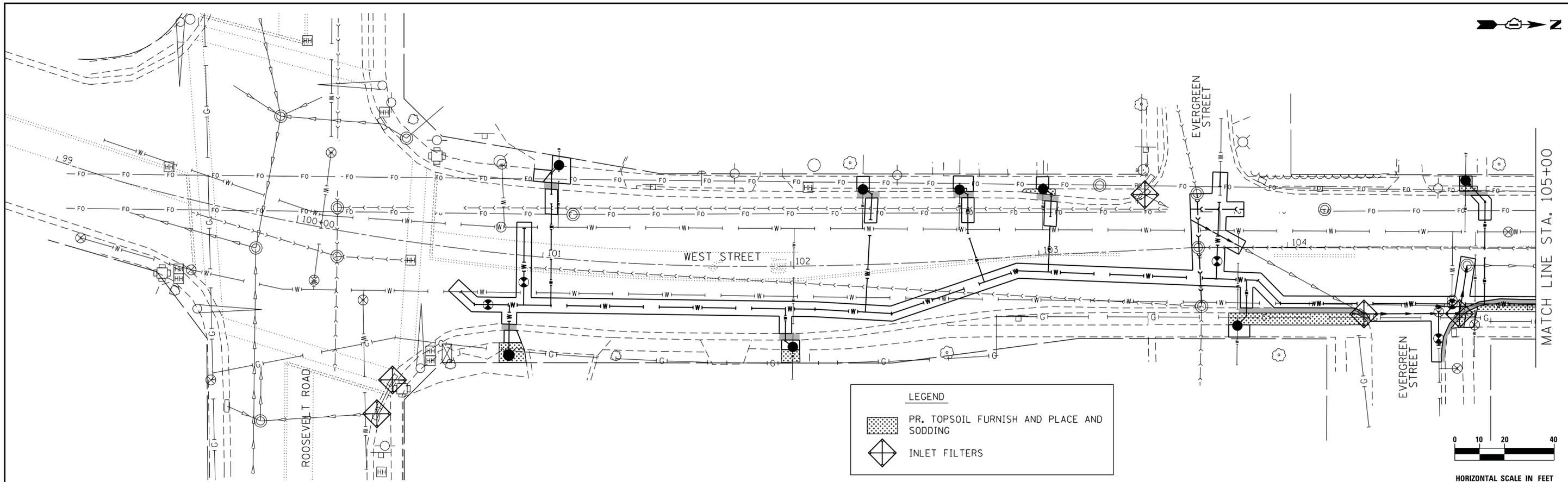
STAGE 3
REMOVAL PLANS

DRAWING NO.
11 OF **19**





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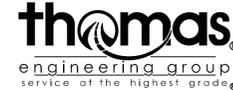
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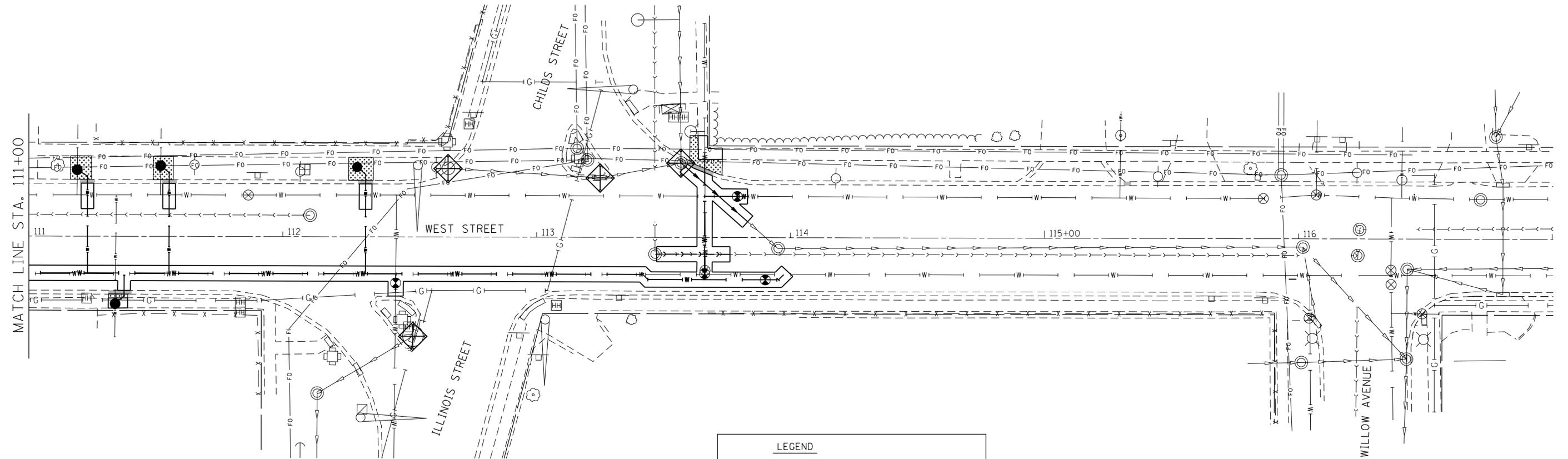
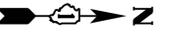


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**WEST STREET
 WATER MAIN REPLACEMENT
 CITY OF WHEATON**

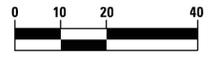
**EROSION CONTROL AND
 LANDSCAPING PLANS**

DRAWING NO.
15 OF 19



LEGEND

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| | PR. TOPSOIL FURNISH AND PLACE AND SODDING |
| | INLET FILTERS |



HORIZONTAL SCALE IN FEET

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WEST STREET
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CITY OF WHEATON

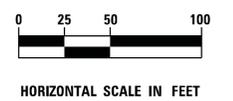
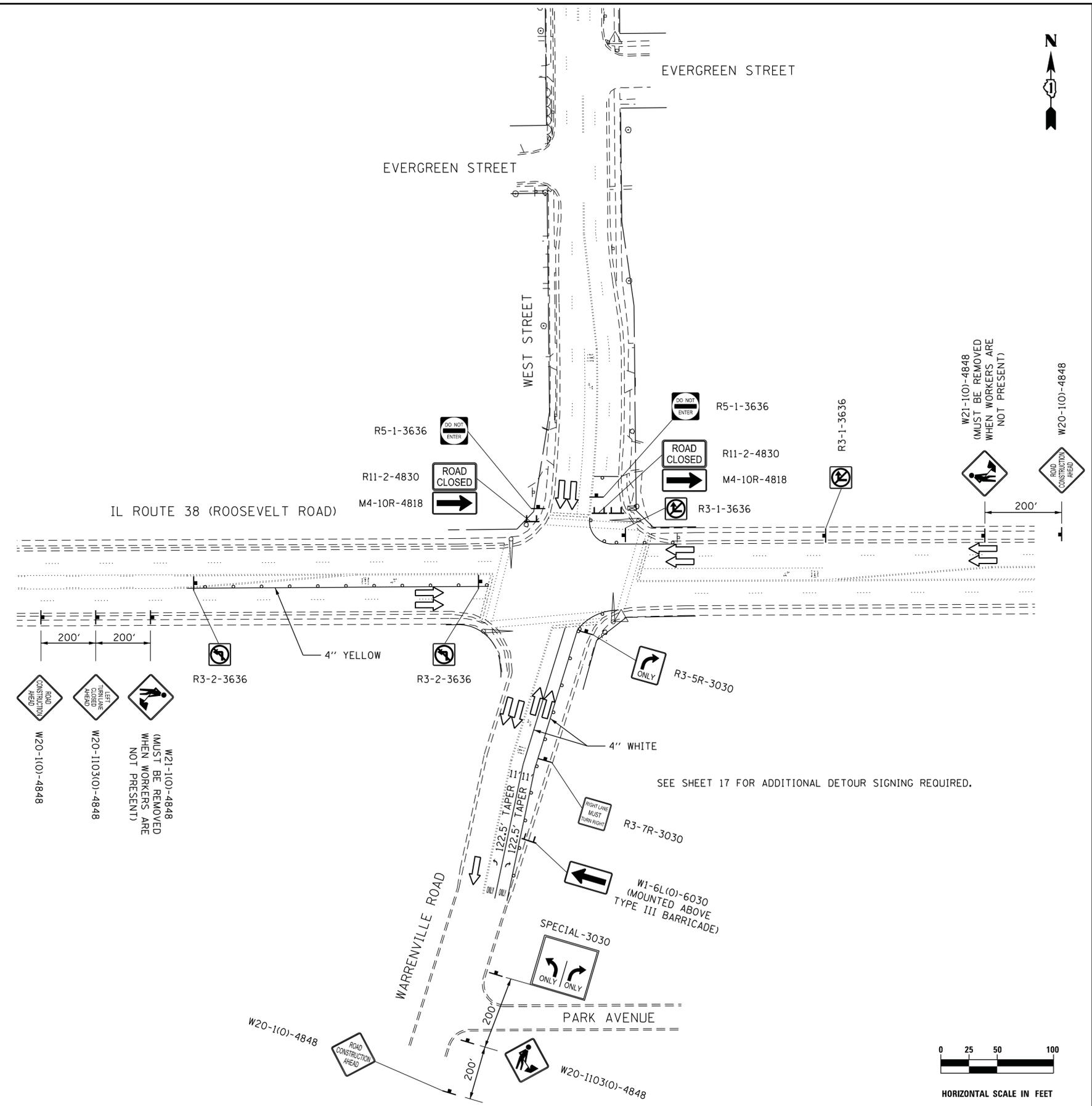
EROSION CONTROL AND
LANDSCAPING PLANS

DRAWING NO.
16 OF 19



- NOTES:**
- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ➔ DIRECTION OF TRAFFIC
 - ⊥ TEMPORARY TRAFFIC SIGN
 - ⊥ TYPE III BARRICADE

- NOTES:**
1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED AND REPLACED. THE COST TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE COST OF WATERMAIN LINING.
 2. ALL TEMPORARY PAVEMENT MARKINGS SHOWN ON THIS SHEET SHALL BE PAID FOR AS "PAVEMENT MARKING TAPE, 4".
 3. NORTHBOUND WEST STREET SHALL NOT BE CLOSED, AND THE ASSOCIATED DETOUR SIGNING INSTALLED, UNTIL THE CONTRACTOR BEGINS WORK AT THE NORTHEAST CORNER OF ROOSEVELT ROAD AND WEST STREET.



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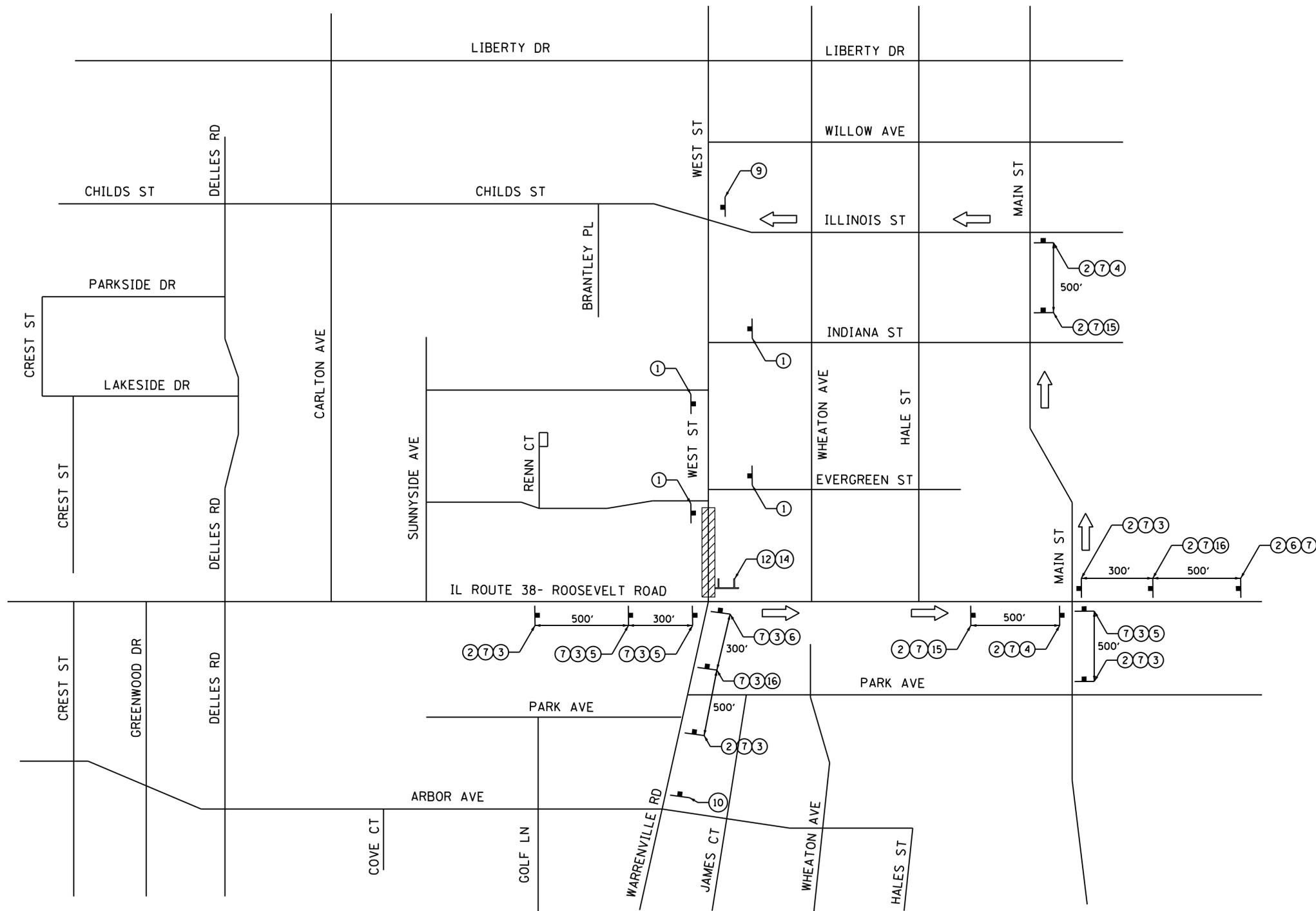
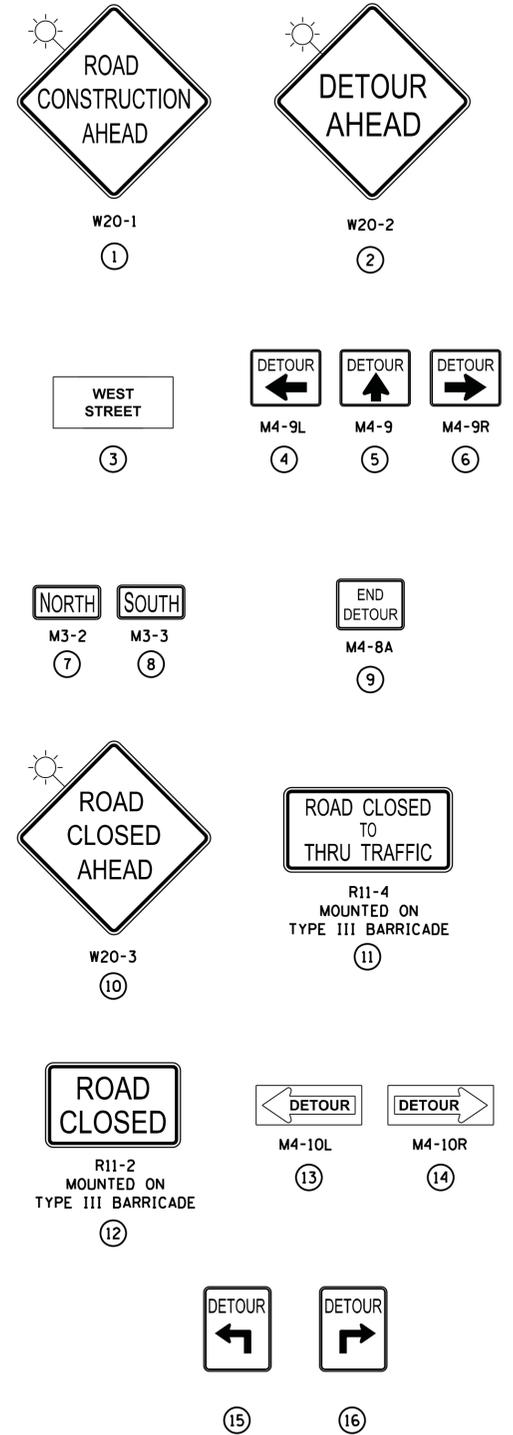
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WEST STREET
WATER MAIN REPLACEMENT
CITY OF WHEATON

MAINTENANCE OF TRAFFIC
WEST STREET

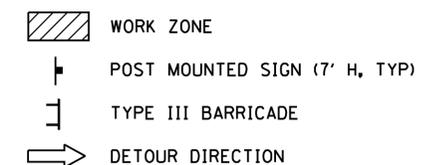
DRAWING NO.
17 OF 19

SIGN LEGEND



1. NORTHBOUND LANES MAY BE CLOSED BETWEEN IL ROUTE 38 AND EVERGREEN STREET IN ACCORDANCE WITH THIS PLAN FOR A MAXIMUM OF 5 BUSINESS DAYS FOR WATER MAIN WORK AND PAVEMENT PATCHING.
2. REFER TO DISTRICT 1 DETAILS AND IDOT STATEWIDE STANDARDS FOR ADDITIONAL INFORMATION ON SIGN PLACEMENT AND TRAFFIC CONTROL DEVICE SPACING.
3. ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
4. PRIOR AND SUBSEQUENT TO THE OPERATION OF THE DETOUR ROUTE, ALL SIDE STREETS SHALL BE OPEN FOR ALL TRAFFIC AT ALL TIMES WITH THE FOLLOWING EXCEPTION: ANY SHORT-TERM ACTIVITY THAT REQUIRED ENCROACHMENT ON THE LANES OPEN TO TRAFFIC SHALL BE LIMITED TO THE HOURS BETWEEN 7:00AM AND 5:00PM.
5. DURING OPERATION OF THE DETOUR ROUTE, SIDE STREETS SHALL BE OPENED TO TRAFFIC BY THE END OF EACH WORK DAY WITH TEMPORARY ACCESS (MINIMUM).
6. THE CONTRACTOR SHALL NOT PERFORM WORK IN MORE THAN ONE INTERSECTION AT A TIME.
6. LATERAL STORM SEWER REPLACEMENTS SHALL BE DONE WITH THE MAINLINE WATER MAIN WHILE THE WORK ZONE, OR DETOUR ROUTE, IS ESTABLISHED.
7. WATER MAIN AND STORM SEWER CONSTRUCTION SHALL BE STAGED WITH FLAGGERS TO ALLOW ONE-WAY ACCESS AT ALL TIMES.
8. TRAFFIC CONTROL FOR WORK AT NON SIGNALIZED INTERSECTIONS SHALL BE IN ACCORDANCE WITH IDOT STANDARDS 701501, 701602, 701606, 701611, AND 701701.
9. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED 7 CALENDAR DAYS PRIOR TO ANY DETOUR OR TRAFFIC SWITCH AT EACH END OF THE CONSTRUCTION STAGE, OR AS DIRECTED BY THE ENGINEER. COMPENSATION WILL BE MADE FOR THE ACTUAL DURATION IN WHICH THE SIGNS ARE FURNISHED AND OPERATIONAL AS REQUESTED BY THE ENGINEER. A NOMINAL QUANTITY IS PROVIDED IN THE CONTRACT.
10. ROADS SHALL NOT BE CLOSED UNTIL ALL DETOUR SIGNAGE IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND APPROVED BY THE ENGINEER.

LEGEND:



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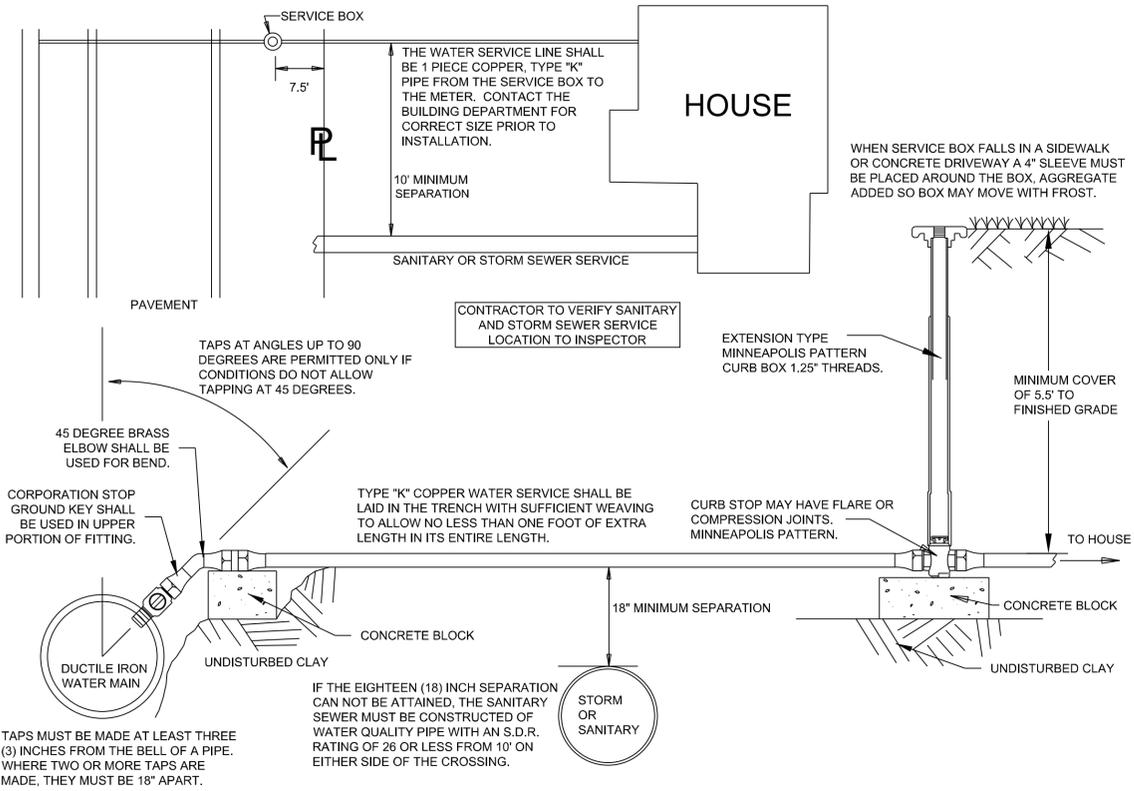
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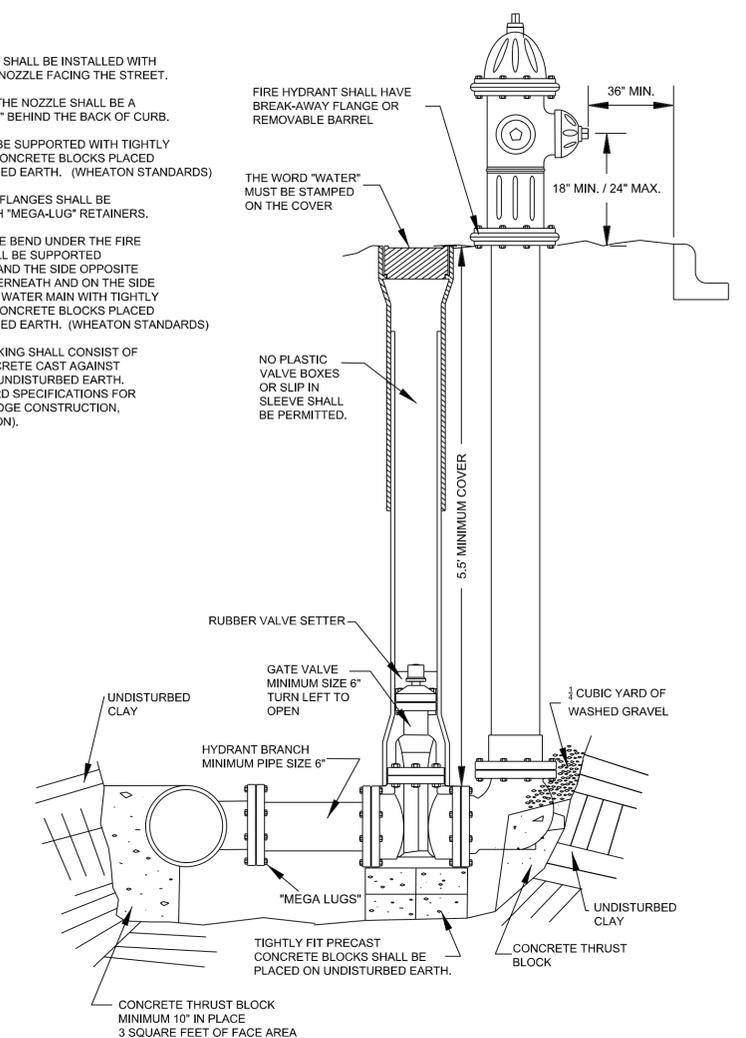
WEST STREET
WATER MAIN REPLACEMENT
CITY OF WHEATON

DETOUR PLAN
(NORTHBOUND CLOSURE)

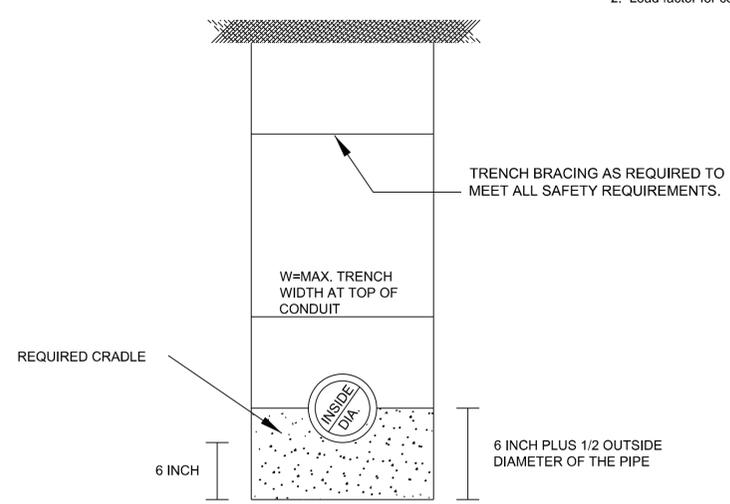
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18 OF 19



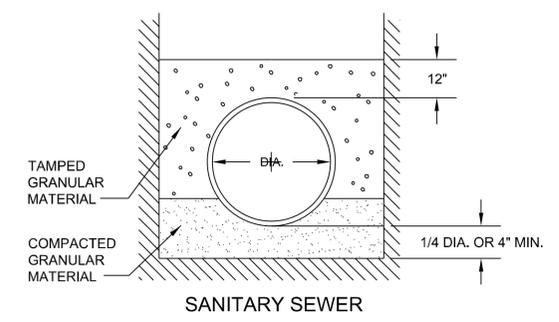
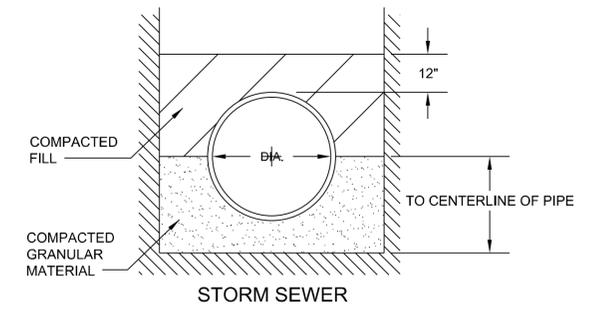
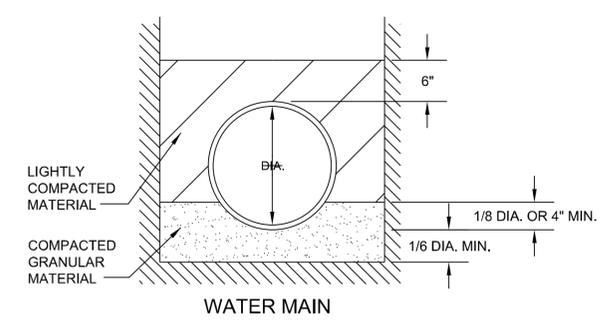
1. FIRE HYDRANT SHALL BE INSTALLED WITH THE STEAMER NOZZLE FACING THE STREET.
2. THE FACE OF THE NOZZLE SHALL BE A MINIMUM OF 36" BEHIND THE BACK OF CURB.
3. VALVE SHALL BE SUPPORTED WITH TIGHTLY FIT PRECAST CONCRETE BLOCKS PLACED ON UNDISTURBED EARTH. (WHEATON STANDARDS)
4. FITTINGS AND FLANGES SHALL BE RETAINED WITH "MEGA-LUG" RETAINERS.
5. THE 90 DEGREE BEND UNDER THE FIRE HYDRANT SHALL BE SUPPORTED UNDERNEATH AND THE SIDE OPPOSITE THE MAIN UNDERNEATH AND ON THE SIDE OPPOSITE THE WATER MAIN WITH TIGHTLY FIT PRECAST CONCRETE BLOCKS PLACED ON UNDISTURBED EARTH. (WHEATON STANDARDS)
6. THRUST BLOCKING SHALL CONSIST OF CLASS SI CONCRETE CAST AGAINST FITTINGS AND UNDISTURBED EARTH. (REF. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST VERSION).



| Inside conduit diameter | Max. Trench Width at the top of conduit W |
|-------------------------|---|
| 0 to 6 | 2 - 0 |
| 8 | 2 - 2 |
| 10 | 2 - 4 |
| 12 | 2 - 7 |
| 15 | 2 - 10 |
| 18 | 3 - 2 |
| 21 | 3 - 6 |
| 24 | 3 - 9 |
| 27 | 4 - 1 |
| 30 | 4 - 5 |
| 33 | 4 - 9 |
| 36 | 5 - 8 |
| 42 | 6 - 3 |
| 48 | 6 - 10 |
| 54 | 7 - 5 |
| 60 | 8 - 0 |
| 66 | 8 - 7 |
| 72 | 9 - 2 |
| 78 | 9 - 9 |
| 84 | 10 - 4 |
| 90 | 10 - 10 |
| 96 | 11 - 5 |
| 108 | 12 - 6 |



- NOTES:
1. Load factor for cradle as specified and detailed = 1.9
 2. Load factor for concrete cradle as detailed = 3.0



- NOTES:
1. REFERENCE: STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, MAY 1996 (OR NEWEST VERSION), SECTION 20-2.20.
 2. REFERENCE: STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST VERSION.

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WEST STREET
WATER MAIN REPLACEMENT
CITY OF WHEATON

WHEATON CONSTRUCTION
DETAILS

DRAWING NO.
19 OF 19

2017 WEST STREET WATER MAIN REHABILITATION PROJECT

COST PROPOSAL INSTRUCTIONS

PLEASE SUBMIT 2 original Cost Proposals in sequential order as follows:

- 1) Formal Contract Proposal (as listed in the Index of Special Provisions)
 - i) Proposal Cover
 - ii) Notice to Bidders
 - iii) Proposal
 - iv) Schedule of Prices (IDOT form BLR12200a)
 - v) Contractor Certifications
 - vi) Signatures
- 2) Local Agency Proposal Bid Bond (IDOT form BLR 12230)
- 3) Certified Apprenticeship and Training Program (IDOT form BLR 12325)
- 4) Affidavit of Illinois Business Office (IDOT form BLR 12326)
- 5) Subcontractor list
- 6) Special Provision for Low Impact Design – Green Infrastructure Training
- 7) Certification of Compliance
- 8) Notice of Deviations
- 9) Contractor Certification Part I
- 10) Contractor Certification Part II
- 11) Equal Employment Opportunity Clause
- 12) Drug Free Workplace Certification
- 13) Certificate of Insurance

Do not submit perforated pages, nor bind your proposal in anything other than paper clips or binder clips.

BIDDER has examined copies of all the Invitation to Bid Documents and of the following Amendments
(receipt of all which is hereby acknowledged):

| Amendment # | Date | Amendment # | Date |
|-------------|-------|-------------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

It is the Bidder's responsibility to check the City of Wheaton web site to see if any amendments are issued regarding this project. Amendments may be issued until 48 hours before bid due date.

<http://www.wheaton.il.us/bids/>.

2017 WEST STREET WATER MAIN REHABILITATION PROJECT

CERTIFICATION OF COMPLIANCE

- (I) The undersigned certifies that they agree to fulfill all Requirements, Specifications, Terms and Conditions.
- (II) The undersigned certifies that they agree to fulfill all Agreement Requirements.
- (III) The undersigned certifies that they agree to present alternative Greener products/processes to the City for consideration in this work.

Check One:

There are no conflicts of interest; and in the event that a conflict of interest is identified anytime during the duration of this award, or reasonable time thereafter, you, your firm, or your firm’s ownership, management or staff will immediately notify the City of Wheaton in writing.

There is an affiliation or business relationship between you, your management or staff, your firm, or your firm’s ownership, and an employee, officer, or elected official of the City of Wheaton who makes recommendations to the City of Wheaton with respect to expenditures of money, employment, and elected or appointed positions. Provide any and all affiliations or business relationships that might cause a conflict of interest or any potential conflict of interest. Include the name of each City of Wheaton affiliate with whom you, your firm, or your firm’s ownership, management or staff, has an affiliation or a business relationship.

This Business Firm is: (check one)

Corporation Partnership Individual LLC

Firm Name: _____

Firm Address: _____

Signature: _____

Print Name: _____

Position: _____

Phone #: _____

Fax #: _____

e-mail address: _____

Date signed: _____

ACKNOWLEDGED AND AGREED TO:

By _____

(Authorized Signature and Title)

State of _____

County of _____

Signed and sworn (or affirmed) to before me on _____ (date)

By _____ (name/s of person/s making statement).

(Seal)

(Signature of Notary Public)

Failure to complete and return this form may be considered sufficient reason for rejection of the bid.

| |
|---|
| <p>Operational Contact for this work</p> <p>Name: _____</p> <p>Phone #: _____</p> <p>e-mail: _____</p> <p>Sales Contact</p> <p>Name: _____</p> <p>Phone #: _____</p> <p>e-mail: _____</p> <p>Billing Contact</p> <p>Name: _____</p> <p>Phone #: _____</p> <p>e-mail: _____</p> |
|---|

2017 WEST STREET WATER MAIN REHABILITATION PROJECT

NOTICE OF DEVIATIONS

NOTICE OF DEVIATIONS for the (1) Specification and/or (2) Agreement Requirements: We deviate from (1) the desired SPECIFICATIONS of the City of Wheaton and/or (2) the 2017 WEST STREET WATER MAIN REHABILITATION PROJECT AGREEMENT, in the following areas (Please reference the specific requirement number):

As best as can be ascertained, there are no deviations other than those listed.

Company Name _____

Signature _____

Print Name _____

Job Title _____

Date Signed _____

**Contractor Certification Part I: Sexual Harassment, Tax, Substance Abuse,
Collusion, Employ Illinois Workers, & Prevailing Wage**

_____, having been first duly sworn deposes and states as follows:
(Officer or Owner of Company)

_____, having submitted a proposal for:
(Name of Company)

2017 West Street Water Main Rehabilitation Project

hereby certifies that the undersigned Contractor:

1. has a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105(A)(4).
2. is not delinquent in the payment of any tax administered by the Illinois Department of Revenue, or if it is:
 - a. it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the approved Revenue Act; or
 - b. it has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.
3. is in full compliance with the Federal Highway Administration Rules on Controlled Substances and Alcohol Use and Testing, 49 CFR Parts 40 and 382 and that _____ is/are currently participating (Name of employee/driver or "all employee drivers") in a drug and alcohol testing program pursuant to the aforementioned rules.

(Check either 4A or 4B, depending upon which certification is correct.)

___4A. has in place a written program which meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act (Public Act 95-0635), and has provided a written copy thereof to the City of Wheaton; or

___4B. has in place a collective bargaining agreement which deals with the subject matter of the Substance Abuse Prevention on Public Works Projects Act (Public Act 95-0635).

5. is not barred from contracting with any unit of state or local government as a result of a violation of either Section 33E-3 or 33E-4 of the Illinois Criminal Code, or of any similar offense of "bid-rigging" or "bid-rotating" of any state of the United States.
6. agrees that, to the extent required by the Employment of Illinois Workers on Public Works Act (30 ILCS 570/1 et seq.), as now existing or hereafter amended, the undersigned shall comply with the Illinois labor employment requirements as set forth in the Act.
7. is, to the extent required, in compliance with all requirements of the Illinois Prevailing Wage Act, 820 ILCS 130/0.01 et seq.

ACKNOWLEDGED AND AGREED TO:

By _____
(Authorized Signature and Title)

State of _____

County of _____

Signed and sworn (or affirmed) to before me on _____ (date)

By _____ (name/s of person/s making statement).

(Signature of Notary Public)

(Seal)

Failure to complete and return this form may be considered sufficient reason for rejection of the bid.

Contractor Certification Part II: Patriot Act/USA Freedom Act, Americans with Disabilities Act, Steel Products, Public Works Employment Discrimination, & Safety

_____, having been first duly sworn deposes and states as follows:
(Officer or Owner of Company)

_____, having submitted a proposal for:
(Name of Company)

2017 West Street Water Main Rehabilitation Project

hereby certifies that the undersigned Contractor:

1. is not barred from bidding and/or contracting with a unit of state or local government as a result of a violation of the USA Patriot Act of 2001, 107 Public Law 56 (October 26, 2001)(the "Patriot Act") and the USA Freedom Act, H.R. 2048, Pub. L. 114-23 which restored and modified the Patriot Act, or other statutes, orders, rules, and regulations of the United States government and its various executive departments, agencies and offices related to the subject matter of the Patriot Act, including, but not limited to, Executive Order 13224 effective September 24, 2001. Contractor also certifies that it is not acting, directly or indirectly, for or on behalf of any person, group, entity or nation named by the United States Treasury Department as a Specially Designated National and Blocked Person, or for or on behalf of any person, group, entity or nation designated in Presidential Executive Order 13224 as a person who commits, threatens to commit, or supports terrorism; and Contractor further certifies that it is not engaged in this transaction directly or indirectly on behalf of, or facilitating this transaction directly or indirectly on behalf of, any such person, group, entity or nation.
2. agrees, to the extent required by the Americans with Disabilities Act ("ADA"), 42 U.S.C. §§12101 et seq., the undersigned shall utilize standards and/or methods that do not discriminate against the disabled.
3. agrees, when applicable, that steel products used or supplied in the performance of the contract or any subcontract thereto shall be manufactured or produced in the United States, as required by the Illinois Steel Products Procurement Act, 30 ILCS 565/1 et seq.
4. shall comply with the Public Works Employment Discrimination Act, 775 ILCS 10/0.01 et seq.
5. shall comply with all local, state and federal safety standards.
6. has and will comply with the Illinois Veterans Preference Act, 330 ILCS 55/0.01 et seq.

ACKNOWLEDGED AND AGREED TO:

By _____
(Authorized Signature and Title)

State of _____

County of _____

Signed and sworn (or affirmed) to before me on _____ (date)

By _____ (name/s of person/s making statement).

(Signature of Notary Public)

(Seal)

Failure to complete and return this form may be considered sufficient reason for rejection of the bid.

EQUAL EMPLOYMENT OPPORTUNITY CLAUSE

Section I: This EQUAL EMPLOYMENT OPPORTUNITY CLAUSE is required by the Illinois Human Rights Act and the Rules and Regulations of the Illinois Department of Human Rights published at 44 Illinois Administrative Code Section 750 *et seq*; also known as Title 44: Government Contracts, Grantmaking, Procurement and Property Management, Subtitle B: Supplemental Procurement Rules, Chapter X: Department of Human Rights, Part 750: Procedures Applicable to all Agencies.

Section II: In the event of the Contractor's non-compliance with the provisions of this Equal Employment Opportunity Clause or the Illinois Human Rights Act, the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance of this contract, the Contractor agrees as follows:

- 1) That he or she will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status or an unfavorable discharge from military service; and, further, that he or she will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any underutilization.
- 2) That, if he or she hires additional employees in order to perform this contract or any portion of this contract, he or she will determine the availability (in accordance with this Part) of minorities and women in the areas from which he or she may reasonably recruit and he or she will hire for each job classification for which employees are hired in a way that minorities and women are not underutilized.
- 3) That, in all solicitations or advertisements for employees placed by him or her or on his or her behalf, he or she will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status or an unfavorable discharge from military service.
- 4) That he or she will send to each labor organization or representative of workers with which he or she has or is bound by a collective bargaining or other agreement or understanding, a notice advising the labor organization or representative of the Contractor's obligations under the Act and this Part. If any labor organization or representative fails or refuses to cooperate with the contractor in his or her efforts to comply with the Act and this Part, the contractor will promptly notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations under the contract.
- 5) That he or she will submit reports as required by this Part, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Act and this Part.
- 6) That he or she will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Act and the Department's Rules and Regulations.
- 7) That he or she will include verbatim or by reference the provisions of this clause in every subcontract awarded under which any portion of the contract obligations are undertaken or assumed, so that the

provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply with the provisions. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

Section III: For the purposes of subsection 7 of Section II, “subcontract” means any agreement, arrangement or understanding, written or otherwise, between the Contractor and any person under which any portion of the Contractor’s obligations under one or more public contracts is performed, undertaken or assumed; the term “subcontract,” however, shall not include any agreement, arrangement or understanding in which the parties stand in the relationship of an employer and an employee, or between a Contractor or other organization and its customers.

ACKNOWLEDGED AND AGREED TO:

By _____
(Authorized Signature and Title)

State of _____

County of _____

Signed and sworn (or affirmed) to before me on _____ (date)

By _____ (name/s of person/s making statement).

(Signature of Notary Public)

(Seal)

Failure to complete and return this form may be considered sufficient reason for rejection of the bid.

DRUG FREE WORKPLACE CERTIFICATION

In compliance with State of Illinois Compiled Statutes, Chapter 30-580 (30 ILCS 580/30), the Contractor certifies and agrees that it will provide a drug free workplace by:

1. Publishing a Statement:
 - A. Notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance, including cannabis, is prohibited in the Contractor's workplace.
 - B. Specifying the actions that will be taken against employees for violations of such prohibition.
 - C. Notifying the employee that, as a condition of employment on such Agreement, the employee will:
 - i. Abide by the terms of the statement; and
 - ii. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
2. Establishing a Drug Free Awareness Program to inform employees about:
 - A. The dangers of drug abuse in the workplace;
 - B. The Contractor's policy for maintaining a drug free workplace;
 - C. Available counseling, rehabilitation, or assistance programs; and
 - D. Penalties imposed for drug violations.
3. Providing a copy of the Statement required by Section 1 to each employee engaged in the performance of the Agreement and to post the Statement in a prominent place in the workplace.
4. Notifying the contracting agency within ten (10) days after receiving notice under part (C), subsection (ii) of paragraph 1 above, from an employee or otherwise receiving actual notice of such conviction.
5. Imposing a sanction on, or requiring the satisfactory participation in a Drug Abuse Assistance or Rehabilitation Program, by any employee who is so convicted, as required by Section 5 of the Drug Free Workplace Act.
6. Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation are required and indicating that a trained referral team is in place.
7. Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.

Failure to abide by this certification shall subject the Contractor to the penalties provided in the "Drug-Free Workplace Act."

The undersigned affirms, under penalties of perjury, that he/she is authorized to execute this certification on behalf of the designated organization.

(Printed name of Contractor)

Address

City State Zip Code

Signature of Authorized Representative

Title

Date

ACKNOWLEDGED AND AGREED TO:

By _____
(Authorized Signature and Title)

State of _____

County of _____

Signed and sworn (or affirmed) to before me on _____ (date)

By _____ (name/s of person/s making statement).

(Signature of Notary Public)

(Seal)

Failure to complete and return this form may be considered sufficient reason for rejection of the bid.

CITY OF WHEATON, ILLINOIS
2017 WEST STREET WATER MAIN REHABILITATION PROJECT
AGREEMENT

THIS AGREEMENT is made and entered this _____ day of _____ by and between the **CITY OF WHEATON**, an Illinois municipal corporation (“**City**”), located at 303 W. Wesley Street, Wheaton, Illinois, 60189 and _____ (“**Contractor**”), located at _____.

WHEREAS, the City has determined that it is reasonable, necessary, and desirable to engage the Contractor to provide materials, labor, equipment, supervision and services required to provide water main replacement on West Street between IL Route 38 (Roosevelt Road) and Childs/Illinois Street in the City of Wheaton (hereinafter, “**Water Main Replacement**”) consistent with the City’s 2017 West Street Water Main Rehabilitation Project Invitation to Bid package which is attached hereto and incorporated herein as if fully set forth as **Group Exhibit A**; and

WHEREAS, Contractor has submitted a cost proposal a to provide the materials, labor, equipment, supervision and services required to provide water main replacement on West Street between IL Route 38 (Roosevelt Road) and Childs/Illinois Street in the City of Wheaton , a copy of the proposal is attached hereto and incorporated herein as if fully set forth as **Group Exhibit B**, and Contractor represents that it has the necessary expertise and experience for water main replacement on West Street between IL Route 38 (Roosevelt Road) and Childs/Illinois Street in the City of Wheaton, upon the terms and conditions set forth herein below.

NOW, THEREFORE, in consideration of the recitals and the mutual covenants, agreements, and conditions set forth in the Agreement, the parties agree as follows:

SECTION 1. PROJECT.

1.1 Recitals. The recitals set forth above, including **Group Exhibit A** and **Group Exhibit B**, are incorporated herein as substantive terms and conditions of this Agreement and represent the intent of the parties. Any inconsistency between the services as stated by the City in **Group Exhibit A** and the services as proposed by the Contractor in **Group Exhibit B** shall be controlled by the services as stated by the City in **Group Exhibit A**, unless specifically waived in writing in the contrary to this Subsection 1.1. Where this Agreement is inconsistent with any provision of **Group Exhibit A** or **Group Exhibit B**, this Agreement shall control.

1.2 Project Name. The name of this project is the **2017 West Street Water Main Rehabilitation Project** (“**Project**”).

1.3 Retention and Services. The City retains the Contractor to provide water main replacement (“**Work**”) for the completion of this Project in strict accordance with this Services Agreement, including the Terms & Conditions, Specifications and Drawings contained in Group Exhibit A and which collectively shall be referred to as the “**Contract Documents**,” and the Contractor agrees to and shall provide the Work required to complete this Project in strict accordance with the Contract Documents.

1.4 Independent Contractor Status. The Contractor shall act as an independent contractor in providing and performing the Work. Nothing in, nor done pursuant to, this Agreement

shall be construed (i) to create the relationship of principal and agent, employer and employee, partners, or joint-venturers between the City and Contractor; or (ii) to create any relationship between the City and any subcontractor of the Contractor. Contractor is not in any way authorized to make any contract, agreement, or promise on behalf of the City, or to create any implied obligation on behalf of the City, and Contractor specifically agrees that it shall not do so. The City shall not have the authority to control the method or manner by which Contractor complies with the terms of this Agreement.

1.5 Time of Performance. Contractor agrees and shall complete the Project by September 15, 2017. The Contractor agrees that time is of the essence.

1.6 Additional Work. The Contractor shall provide only the Work specified in the Contract Documents. Additional work that is not part of the Work of the Contract Documents may be assigned subject to prior written approval or direction by the City. Payment for additional work shall be mutually agreed upon by the parties before the commencement of any additional work. Any additional work shall be subject to the terms and conditions of this Agreement.

1.7 Bonds. Contractor shall furnish payment and performance bonds equal to one-hundred and ten percent (110%) of the full contract price on forms approved by the City. Bond certificates must be submitted with the executed Agreement. Such bond(s) shall be conditioned to save and keep harmless the City from any and all claims, demands, loss, suits, costs, expenses and damages which may be brought, sustained or recovered against the City by reason of any negligence, default or failure of the Contractor in building, constructing or completing the Work, and that the Work shall be free from all defects and remain in good order and condition for one year from its completion and acceptance by the City, ordinary wear and tear, and damage resulting from accident or willful destruction excepted; a copy of such bond certificate shall be attached to this Agreement and made a part hereof.

SECTION 2. COMPENSATION AND METHOD OF PAYMENT.

2.1 Agreement Amount. The total amount billed by the Contractor for the Work performed for the Project under this Services Agreement shall not exceed _____, including reimbursable expenses, without the prior express written authorization of the City.

2.2 Invoices and Payments. For the Work performed by Contractor, the City shall pay Contractor as follows:

- a) Authorization of payment requires the following: receipt by the City of invoices from the Contractor containing sufficient detail of the Work performed to enable the City to properly evaluate the payout request; acceptance by the City of the Work, including materials and/or equipment; and receipt of other paperwork required by this Agreement.
- b) Retainage in the amount of ten percent (10%) of a payment request will be deducted from the amount determined for the first fifty percent (50%) of the Project. Retainage will be held until: i) all defective work has been remedied; ii) all work is one-hundred percent (100%) final and the City's project manager has formally accepted the work; and iii) all waivers, liens, certified payrolls, warranty documents and other required documentation are provided. If the work is fifty percent (50%) completed, satisfactory and on schedule, upon the

discretion of the Project Manager, the City will continue to retain no less than five percent (5%) of the total adjusted Agreement price.

- c) The City shall pay Contractor in accordance with the Illinois Local Government Prompt Payment Act.
- d) Payment will be made to the Contractor either through the City's Purchasing Card Program, MasterCard, in which payment will occur at the time of Work delivery, or through a Contractor generated invoice. Invoices shall be submitted to the City within six (6) months of completion of the Services. Any invoices submitted in excess of six (6) months from the date that Work is completed, will not be paid. Under no circumstances will a third party be reimbursed for Work performed under this Agreement.

2.3. Unappropriated Funds. The obligation of the City for payment to the Contractor is limited to the availability of funds appropriated in a current fiscal period, and continuation of this Agreement into a subsequent fiscal period is subject to the appropriation of funds, unless otherwise authorized by law.

2.4. Taxes, Benefits, and Royalties. The Agreement Amount includes all applicable federal, state and City taxes of every kind and nature applicable to the Work as well as all taxes, contributions, and premiums for unemployment insurance, old age or retirement benefits, pensions, annuities, or similar benefits and all costs, royalties, and fees arising from the use of, or the incorporation into, the Work, of patented or copyrighted equipment, materials, supplies, tools, appliances, devices, processes, or inventions. All claims or right to claim additional compensation by reason of the payment of any such tax, contribution, premium, costs, royalties, or fees is hereby waived and released by Contractor.

2.5. Records. The Contractor shall maintain records showing actual time devoted and costs incurred in connection with the Work performed under this Agreement, and shall permit the authorized representative of the City to inspect, audit and make copies of all data and records of the Contractor for the Work done under this Agreement. All such records shall be clearly identifiable. The records shall be made available to the City during normal business hours during the Agreement period, and for three years after the termination of the Agreement.

SECTION 3. REPRESENTATIONS OF CONTRACTOR.

3.1 Standard of Care. The Contractor represents, certifies and warrants that it shall perform and complete the Work in a manner consistent with the level of care, skill, and diligence exercised by other recognized Contractors in the Wheaton area, under similar circumstances at the time the Work is performed. The representations, certifications, and warranties expressed shall be in addition to any other representations, certifications, and warranties expressed in this Agreement, or expressed or implied by law, which are hereby reserved unto the City.

3.2 Solvency. The Contractor represents that it is financially solvent and has the necessary financial resources to perform the Work with the standard of care required under this Agreement.

3.3 Key Project Personnel/Personnel. The Key Project Personnel identified in Group Exhibit B shall be primarily responsible for carrying out the Work on behalf of the Contractor. The

Key Project Personnel shall not be changed without the City's prior written approval. The Contractor shall provide all personnel necessary to complete the Work.

SECTION 4. INDEMNIFICATION; INSURANCE; LIABILITY

4.1 Indemnification. The Contractor shall, without regard to the availability or unavailability of any insurance, either of the City or of the Contractor, indemnify, save harmless, and defend the City, and its officials, directors, officers, employees, agents, and attorneys, in whole or in part from and against any and all lawsuits, claims, demands, damages, liabilities, losses, fines, judgments, settlements, penalties, costs, and expenses, including, but not limited to reasonable expert witness and attorneys' fees, as well as costs of litigation, that arise, or may be alleged to have arisen, out of or in connection with Contractor's performance or failure to perform the Work or any part thereof, whether or not due or claimed to be due in whole or in part to the active, passive, or concurrent negligence or fault of the Consultant, except to the extent caused by the sole negligence of the City.

The obligation on the part of the Contractor to defend, hold harmless, and indemnify the City shall survive the expiration or termination of this Agreement. Nothing in this Agreement shall be construed as prohibiting the City, its officials, directors, officers, employees, agents or attorneys from defending, through the selection and use of their own agents, attorneys and experts, any claims, actions or suits brought against them arising out of the performance of this Agreement.

In the event that any claim for indemnification hereunder arises from the negligence or willful misconduct of both the Contractor and the City, the parties agree that any and all lawsuits, claims, demands, damages, liabilities, losses, fines, judgments, settlements, penalties, costs, and expenses shall be apportioned between the parties on the basis of their comparative degrees of fault, except as otherwise herein provided.

4.2 Insurance. Contemporaneous with the Contractor's execution of this Agreement, the Contractor shall provide certificates and policies of insurance, all with coverages and limits acceptable to the City, and evidencing at least the minimum insurance coverages and limits as set forth by the City in the **Contract Addendum 1** included in Group Exhibit A to this Agreement.

4.3 No Personal Liability. No elected or appointed official, director, officer, agent or employee of the City shall be personally liable, in law or in contract, to the Contractor as the result of the execution, approval or attempted execution of this Agreement.

4.4. No Liability to Any Third Party. The City shall have no liability to any third party in contract, tort or otherwise for incidental or consequential damages of any kind, including, without limitation, punitive or economic damages or lost profits, regardless of whether the City shall be advised, shall have reason to know or in fact shall know of the possibility.

4.5 Third Party Beneficiaries. There are no third party beneficiaries of this Agreement.

4.6 Patents. The Contractor agrees to protect, defend, and save the City harmless against any demand for payment for the use of any patented material, process, good or device utilized or supplied in connection with the performance of the Work required or provided pursuant to the terms of this Agreement.

SECTION 5. CONFIDENTIAL INFORMATION.

5.1 Confidential Information. The term "**Confidential Information**" shall mean information in the possession or under the control of the City relating to the technical, business, or corporate affairs of the City; City property; user information, including, without limitation, any information pertaining to usage of the City's computer system, including and without limitation, any information obtained from server logs or other records of electronic or machine readable form; and the existence of, and terms and conditions of, this Agreement. City Confidential Information shall not include information that can be demonstrated: (i) to have been rightfully in the possession of the Contractor from a source other than the City prior to the time of disclosure of said information to the Contractor under this Agreement ("**Time of Disclosure**"); (ii) to have been in the public domain prior to the Time of Disclosure; (iii) to have become part of the public domain after the Time of Disclosure by a publication or by any other means except an unauthorized act or omission or breach of this Agreement on the part of the Contractor or the City; or (iv) to have been supplied to the Contractor after the Time of Disclosure without restriction by a third party who is under no obligation to the City to maintain such information in confidence.

5.2 No Disclosure of Confidential Information by the Contractor. The Contractor acknowledges that it in the event that it shall, in performing the Work for the City under this Agreement, have access to or be directly or indirectly exposed to Confidential Information, that Contractor shall hold confidential all Confidential Information and shall not disclose or use such Confidential Information without express prior written consent of the City. The Contractor shall use reasonable measures at least as strict as those the Contractor uses to protect its own confidential information. Such measures shall include, without limitation, requiring employees and subcontractors of the Contractor to execute a non-disclosure agreement before obtaining access to Confidential Information.

5.3 Breach of Confidentiality. In the event of breach of the confidentiality provisions of Section 5 of this Agreement, it shall be conclusively presumed that irreparable injury would result to the City and there would be no adequate remedy at law. The City shall be entitled to obtain temporary and permanent injunctions, without bond and without proving damages, to enforce this Agreement. The City shall be entitled to damages for any breach of the injunction, including but not limited to, compensatory, incidental, consequential, exemplary and punitive damages. The confidentiality provisions of this Agreement survive the termination or performance of this Agreement.

SECTION 6. TERMINATION and DEFAULT.

6.1 Termination. Notwithstanding any other provision hereof, the City may terminate this Agreement, with or without cause, at any time upon fifteen (15) days prior written notice to the Contractor. In the event that this Agreement is so terminated, the City shall pay Contractor for the Work performed and reimbursable expenses actually incurred as of the effective date of termination, less any sums attributable, directly or indirectly, to Contractor's breach of this Agreement. The written notice required under this subsection shall be either (i) served personally during regular business hours; (ii) served by facsimile during regular business hours (iii) served by certified or registered mail, return receipt requested, addressed to the address listed at the end of this Agreement with postage prepaid and deposited in the United States mail or (iv) by e-mail sent to the Contractor's Key Project Personnel. Notice served personally, by facsimile transmission or e-mail shall be effective upon receipt, and notice served by mail shall be effective upon receipt as verified by the United States Postal Service. Contractor shall provide the City with its Key Project Personnel's e-mail address upon its execution of this Agreement. On receiving such notice, Contractor shall, unless the notice directs otherwise,

immediately discontinue all Work under this Agreement. As soon as practicable after receiving the termination notice, Contractor shall submit an invoice to the City showing in detail the Work performed under this Agreement up to the termination date. Contractor's receipt of payment for Work rendered upon City's termination of this Agreement, is Contractor's sole and exclusive remedy for termination for convenience by the City. City's termination for convenience does not constitute a default or breach of this Agreement. **CONTRACTOR WAIVES ANY CLAIM (OTHER THAN ITS CLAIM FOR PAYMENT FOR WORK PERFORMED), IT MAY HAVE NOW OR IN THE FUTURE FOR FINANCIAL LOSSES OR OTHER DAMAGES RESULTING FROM CITY'S TERMINATION FOR CONVENIENCE.**

6.2 Default. If it should appear at any time that the Contractor has failed or refused to perform, or has delayed in the performance of, the Work with diligence at a rate that assures completion of the Work in full compliance with the requirements of this Agreement, or has otherwise failed, refused, or delayed to perform or satisfy the Work requirements or any other requirement of this Agreement ("**Event of Default**"), then the City shall have the right, without prejudice to any other remedies provided by law or equity, to pursue any one or more of the following remedies:

1. Cure by Contractor. The City may require the Contractor, within a reasonable time, to complete or correct all or any part of the Work that is the subject of the Event of Default; and to take any or all action necessary to bring the Contractor and the Work into compliance with this Agreement.

2. Termination of Agreement by City. The City may terminate this Agreement as to any or all Work yet to be performed, effective at a time specified by the City, and shall pay Contractor for the Work performed or reimbursable expenses actually incurred as of the effective date of termination.

3. Withholding of Payment by City. The City may withhold from any payment, whether or not previously approved, or may recover from the Contractor, any and all costs, including attorneys' fees and administrative expenses, incurred by the City as the result of any Event of Default by the Contractor or as a result of actions taken by the City in response to any Event of Default by the Contractor.

SECTION 7. WARRANTIES and REPRESENTATIONS.

7.1 Contractor shall provide the City with a warranty on materials and workmanship consistent with the terms and conditions of the Special Provision for "One Year Guarantee" contained in the Specifications to this Agreement in the attached Group Exhibit A.

7.2 Contractor shall transfer to the City any manufacturers' warranties which it has for materials used in connection with this Project.

7.3 Contractor warrants that all goods furnished hereunder will conform in all respects to the terms of this Agreement, including any drawings, specifications, or standards incorporated herein, and/or that defects in goods are free from defects in design. Contractor also warrants that the goods are suitable for and will perform in accordance with the purposes for which they were intended.

7.4 The warranty rights and remedies provided in this Section 7 are in addition to and do not limit any rights afforded to the City by any other provision or term in this Agreement or by law.

7.5 Contractor represents and warrants that Work performed by Contractor shall conform to all applicable state and federal safety standards/directives for setting-up and utilizing platforms, lifts, ladders, scaffolding, safety lines and belts, and similar equipment used for demolition and construction.

7.6 Contractor's employees, agents, and subcontractors shall use personal protective equipment, safety harnesses, fall protection equipment, hard hats or other equipment required to perform the Work in a safe manner. Contractor will hold safety training, safety briefings or other meetings to ensure all staff are fully prepared to perform the Work with safety in mind.

7.7 Contractor shall conduct daily safety and health inspections of the work site. Contractor shall promptly report any accidents, injuries, spills or near misses to the City.

SECTION 8. COMPLIANCE WITH LAWS AND GRANTS.

8.1 Freedom of Information Act. The Contractor shall, within four (4) business days of the City's request, provide any documents in the Contractor's possession related to this Agreement which the City is required to disclose to a requester under the Illinois Freedom of Information Act ("**FOIA**"). This provision is a material covenant of this Agreement. Contractor agrees to not apply any costs or charge any fees to the City regarding the procurement of records required pursuant to an FOIA request. Should Contractor request that the City utilize a lawful exemption under FOIA in relation to any FOIA request thereby denying that request, Contractor agrees to pay all costs connected therewith (such as reasonable attorneys' fees and witness fees, filing fees, and any other expenses) to defend the denial of the request. The defense shall include, but not be limited to, challenged or appealed denials of FOIA requests to either the Illinois Attorney General or a court of competent jurisdiction. Contractor agrees to defend, indemnify, and hold harmless the City, and agrees to pay all costs in connection therewith (such as reasonable attorneys' and witness fees, filing fees, and any other expenses) to defend any denial of a FOIA request by Contractor's request to utilize a lawful exemption to the City.

8.2 Generally: Permits/Codes/Business Laws/Safety Standards/Grants. Contractor shall give all notices, pay all fees, and take all other action that may be necessary to ensure that the Services are provided, performed, and completed in accordance with all required governmental permits, licenses, or other approvals and authorizations that may be required in connection with providing, performing, and completing the Services, and will comply with all applicable municipal, county, state and federal statutes, ordinances, rules, and regulations, including without limitation all applicable building and fire codes, now in force or which may hereafter be in force, any statutes regarding qualification to do business, and all local, state and federal safety standards. Contractor shall comply with all conditions of any federal, state, or local grant received by Owner or Contractor with respect to this Agreement or the Services. Contractor shall be solely liable for any fines or civil penalties that are imposed by any governmental or quasi-governmental agency or body that may arise, or be alleged to have arisen, out of or in connection with Contractor's, or its subcontractors', performance of, or failure to perform, the Services or any part thereof. Every provision of law required by law to be inserted into this Agreement shall be deemed to be inserted herein.

8.3 No Delinquent Taxes. The Contractor represents and certifies that the Contractor is not barred from contracting with a unit of state or local government as a result of a delinquency in the payment of any tax administered by the Illinois Department of Revenue unless the Contractor is

contesting, in accordance with the procedures established by the appropriate revenue act, its liability for the tax, or has entered into an agreement with Department of Revenue for payment of all taxes due and is currently in compliance with that agreement, as set forth in 11-42.1-1 et seq. of the Illinois Municipal Code, 65 ILCS 5/11-42.1-1 et seq.

8.4 No Collusion. The Contractor represents and certifies that the Contractor is not barred from contracting with a unit of state or local government as a result of a violation of either Section 33E-3 or Section 33E-4 of Article 33E of the Criminal Code of 2012, 720 ILCS 5/33E-1 et seq. The Contractor represents that the only persons, firms, or corporations interested in this Agreement as principals are those disclosed to the City prior to the execution of this Agreement, and that this Agreement is made without collusion with any other person, firm, or corporation. If at any time it shall be found that the Contractor has, in procuring this Agreement, colluded with any other person, firm, or corporation, then the Contractor shall be liable to the City for all loss or damage that the City may suffer, and this Agreement shall, at the City's option, be null and void.

8.5 Sexual Harassment Policy. The Contractor shall certify that it has a written sexual harassment policy in full compliance with Section 2-105(A)(4) of the Illinois Human Rights Act, 755 ILCS 5/2-105(A)(4).

8.6 Patriot Act (USA Freedom Act) Compliance. The Contractor represents and warrants to the City that neither it nor any of its principals, shareholders, members, partners, or affiliates, as applicable, is a person or entity named as a Specially Designated National and Blocked Person (as defined in Presidential Executive Order 13224) and that it is not acting, directly or indirectly for or on behalf of a Specially Designated National and Blocked Person. The Contractor further represents and warrants to the City that the Contractor and its principals, shareholders, members, partners, or affiliates, as applicable, are not directly or indirectly, engaged in, and are not facilitating, the transactions contemplated by this Agreement on behalf of any person or entity named as a Specially Designated National and Blocked Person. The Contractor hereby agrees to defend, indemnify and hold harmless the City, its corporate authorities, and all City elected or appointed officials, officers, employees, agents, representatives, engineers, and attorneys, from and against any and all claims, damages, losses, risks, liabilities, and expenses (including reasonable attorneys' fees and costs) arising from or related to any breach of the representations and warranties in this subsection.

8.7 Anti-Discrimination Laws. Contractor shall comply with all federal and state laws prohibiting discrimination because of, or requiring affirmative action based on race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status or an unfavorable discharge from military service, and shall execute the Equal Employment Opportunity Clause compliance certification attached to this Agreement in Group Exhibit A.

8.8 Americans with Disabilities Act. Contractor shall utilize standards and/or methods that do not discriminate against the disabled in compliance with the Americans with Disabilities Act, 42 U.S.C. §§12101 et seq.

8.9 Drug Free Workplace Act. Contractor shall comply with all conditions of the Illinois Drug Free Workplace Act, 30 ILCS 580/3 et seq.

8.10 CDL Driver Controlled Substances and Alcohol Use and Testing. To the extent that the Contractor and any employees, agents, or subcontractors thereof, will operate any commercial

vehicles requiring the necessity for a state issued Commercial Driver's License, Contractor shall comply with Federal Highway Authority Rules on Controlled Substances and Alcohol Use and Testing, 49 CFR Parts 40 and 382 and shall notify the City of any employee, agent subcontractor driver participating in a drug and alcohol testing program pursuant to the aforementioned rules during the term of this Agreement.

8.11 Employment of Illinois Workers on Public Works Projects Act. When applicable, Contractor shall comply with the Illinois labor employment requirements as set forth in the Employment of Illinois Workers on Public Works Projects Act, 30 ILCS 570/1 et seq.

8.12 Public Works Employment Discrimination Act. Contractor shall comply with all conditions and requirements of the Illinois Public Works Employment Discrimination Act, 775 ILCS 10/0.01 et seq.

8.13 Steel Products Procurement Act. When applicable, any steel product used or supplied in the performance of the contract or any subcontract thereto, shall be manufactured or produced in the United States, as required by the Illinois Steel Products Procurement Act, 30 ILCS 565/1 et seq.

8.14 Substance Abuse Prevention. Pursuant to the Substance Abuse Prevention on Public Works Projects ("SAPPWP") 820 ILCS 265/1 et seq., employees of the Contractor and employees of any Subcontractor are prohibited from the use of drugs or alcohol, as defined in the SAPPWP, while performing work on any public works project. The Contractor certifies that it has a written Substance Abuse Prevention Program for the prevention of substance abuse among its employees which meets or exceed the requirements of the SAPPWP or shall have a collective bargaining agreement in effect dealing with the subject matter.

8.15 Prevailing Wage Act. Some or all of the Work herein required under this Agreement may involve the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/0.01 et seq. ("the Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at: <http://www.state.il.us/agency/idol/rates/rates.HTM>. All contractors and subcontractors rendering work under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties, as more fully set forth in the "Special Provisions for: Wages of Employees on Public Works" contained in Group Exhibit A to this Agreement. The Contractor shall indemnify the City for any and all violations of the prevailing wage laws and any rules and regulations now and hereafter issued pursuant to said laws.

8.16 Veterans Preference Act. When applicable, Contractor shall comply with all employment preference requirements of the Illinois Veterans Preference Act, 330 ILCS 55/0.01 et seq.

SECTION 9. GENERAL PROVISIONS.

9.1 Work Products. Designs, drawings, plans, specifications, photos, reports, information, observations, calculations, notes, studies, logbooks, instructions, manuals, models, recommendations, printed and electronic files, and any other data or information, in any form, prepared, collected, or received by the Contractor in connection with any or all of the Work to be

performed under this Agreement ("**Documents**") shall be and remain the exclusive property of the City. At the City's request, or upon termination of this Agreement, the Contractor shall cause the Documents to be promptly delivered to the City.

9.2 News Releases. The Contractor shall not issue any news releases or other public statements regarding the Work without prior approval from the City Manager.

9.3 Integration. The provisions set forth in this Agreement represent the entire agreement between the parties and supersede all prior agreements, promises, and representations, as it is the intent of the parties to provide for a complete integration within the terms of this Agreement.

9.4 Amendment. No amendment or modification to this Agreement shall be effective unless and until such amendment or modification is in writing, properly approved in accordance with applicable procedures, and executed.

9.5 Assignment. This Agreement, or any part, rights or interests hereof, may not be assigned by the City or by the Contractor to any other person, firm or corporation without the prior written consent of the other party.

9.6 Limitation of Liability. CITY SHALL NOT BE LIABLE TO CONTRACTORS FOR ANY INDIRECT, CONSEQUENTIAL, SPECIAL, INCIDENTAL, PUNITIVE, OR EXEMPLARY DAMAGES, INCLUDING WITHOUT LIMITATION, LOST PROFITS (DIRECT OR INDIRECT) AND LOST REVENUES HOWSOEVER ARISING, WHETHER OR NOT CHARACTERIZED IN NEGLIGENCE, TORT, CONTRACT OR OTHER THEORY OF LIABILITY, EVEN IF CITY HAS BEEN ADVISED OF THE POSSIBILITY OF OR COULD HAVE FORESEEN ANY SUCH DAMAGES.

9.7 Binding Effect. The terms of this Agreement shall bind and inure to the benefit of the parties hereto and their agents, successors, and assigns.

9.8 Waiver. Any failure of either the City or the Contractor to strictly enforce any term, right or condition of this Agreement, whether implied or express, shall not be construed as a waiver of such term, right or condition, nor shall it be deemed to or constitute a continuing waiver unless otherwise expressly provided in this Agreement.

9.9 Severability. If any term, covenant, condition, or provision of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the provisions shall remain in full force and effect and shall in no way be affected, impaired or invalidated.

9.10 Governing Laws/Jurisdiction. This Agreement shall be interpreted according to the laws of the State of Illinois. Exclusive jurisdiction for any litigation involving any aspect of this Agreement shall be in the Eighteenth Judicial Circuit Court, DuPage County, Illinois.

9.11 Force Majeure. No party hereto shall be deemed to be in default or to have breached any provision of this Agreement as the result of any delay, failure in performance or interruption of services resulting directly or indirectly from acts of God, acts of civil or military disturbance, or war, which are beyond the control of such non-performing party.

9.12 Headings. The headings of the several paragraphs of this Agreement are inserted only as a matter of convenience and for reference and are in no manner intended to define, limit or describe the scope of intent of any provision of this Agreement, nor shall they be construed to affect in any manner the terms and provisions hereof or the interpretation or construction thereof.

9.13 Rights Cumulative. Unless expressly provided to the contrary in this Agreement, each and every one of the rights, remedies, and benefits provided by this Agreement shall be cumulative and shall not be exclusive of any other such rights, remedies and benefits allowed by law.

9.14 Counterpart Execution. This Agreement may be executed in several counterparts, each of which, when executed, shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

9.15 Notice. Unless otherwise expressly provided in this Agreement, any notice or communication required or permitted to be given under this Agreement shall be in writing and shall be delivered (i) personally, (ii) by a reputable overnight courier, (iii) by certified mail, return receipt requested, and deposited in the U.S. Mail, postage prepaid, (iv) by facsimile, or (v) by electronic internet mail ("e-mail"). Facsimile notices shall be deemed valid only to the extent that they are (a) actually received by the individual to whom addressed and (b) followed by delivery of actual notice in the manner described in either (i), (ii), or (iii) above within three (3) business days thereafter at the appropriate address set forth below. E-mail notices shall be deemed valid and received by the addressee thereof when delivered by e-mail and (a) opened by the recipient on a business day at the address set forth below, and (b) followed by delivery of actual notice in the manner described in either (i), (ii), or (iii) above within three (3) business days thereafter at the appropriate address set forth below. Unless otherwise expressly provided in this Agreement, notices shall be deemed received upon the earlier of (a) actual receipt; or (b) one business day after deposit with an overnight courier as evidenced by a receipt of deposit; or (c) three business days following deposit in the U.S. mail, as evidenced by a return receipt. By notice complying with the requirements of this Subsection, each party shall have the right to change the address or the addressee, or both, for all future notices and communications to such party, but no notice of a change of addressee or address shall be effective until actually received.

Notices and communications shall be addressed to, and delivered to as follows:

If to the Contractor:

If to the City:

City of Wheaton
Attn: City Clerk
303 W. Wesley Street, Box 727
Wheaton, IL 60189-727
E-Mail: cityclerk@wheaton.il.us
Fax #: 630-260-2017

IN WITNESS WHEREOF, the parties have entered into this Agreement this ____ day of _____, 2017.

CITY OF WHEATON, an Illinois municipal corp.

By: _____ Date: _____

ATTEST:

BY: _____
Sharon Barrett-Hagen, City Clerk

CONTRACTOR

BY: _____ Date: _____
Signature

Its: _____

ATTEST:

BY: _____

Title: _____

Special Provisions for: Insurance Coverage for Contracted Services

The Contractor and each of its agents, subcontractors, and consultants hired to perform the Services and to provide equipment in connection with those Services shall purchase and maintain during the term of this Agreement insurance coverage which will satisfactorily insure the Contractor and, where appropriate, the City against claims and liabilities which may arise out of the Services. Such insurance shall be issued by companies authorized to do business in the State of Illinois and approved by the City. The insurance coverages shall include, but not necessarily be limited to, the following:

- **Worker's Compensation Insurance** with limits as required by the applicable statutes of the State of Illinois. The employer's liability coverage under the worker's compensation policy shall have limits of not less than **FIVE HUNDRED THOUSAND DOLLARS (\$500,000)** each accident/injury and **FIVE HUNDRED THOUSAND DOLLARS (\$500,000)** each employee/disease and **FIVE HUNDRED THOUSAND DOLLARS (\$500,000) POLICY LIMIT**.
The workers compensation policy shall provide a waiver of subrogation (aka Waiver of our Right to Recover from Others Endorsement), to the City.
- **Commercial General Liability Insurance** protecting the Contractor against any and all public liability claims which may arise in the course of performance of this contractual Agreement. The limits of liability shall be not less than **ONE MILLION DOLLARS (\$1,000,000)** each occurrence bodily injury/property damage combined single limit and **ONE MILLION DOLLARS (\$1,000,000)** aggregate bodily injury/property damage combined single limit. The policy of commercial liability insurance shall include contractual liability coverage and an endorsement naming the City as an additional insured on a primary and non-contributory basis.
- **Commercial Automobile Liability Insurance** covering the Contractor's owned, non-owned, and hired vehicles which protects the Contractor against automobile liability claims whether on or off of the City's premises with coverage limits of not less than **ONE MILLION DOLLARS (\$1,000,000)** per accident bodily injury/property damage combined single limit. The policy of commercial liability insurance shall include contractual liability coverage and an endorsement naming the City as an additional insured on a primary and non-contributory basis.
- **Professional Errors And Omissions Coverage** with limits of not less than **ONE MILLION DOLLARS (\$1,000,000)** each claim and in the aggregate covering the Contractor against all sums which the provider shall become obligated to pay on account of any error and / or omission arising out of the performance of the professional services for the City under this Agreement. The professional liability insurance shall remain in effect for a period for not less than four (4) years after the completion of the services to be performed by the provider under this Agreement.

Nothing herein set forth shall be construed to create any obligation on the part of the City to indemnify Contractor for any claims of negligence against the provider or its agents, employees, subcontractors or consultants. Prior to commencement of any work under this Agreement, Contractor shall file with the City the required original certificates of insurance with endorsements, including those of subcontractors, which shall clearly state all of the following:

- A. The policy number; name of insurance company; name and address of the agent or authorized representative; name, address, and telephone number of the insured; project name and address; policy expiration date; and specific coverage amounts; and
- B. That the City of Wheaton (including its agents, elected officials, officers and employees) is named as an additional insured under all coverage, except Workers' Compensation and Professional Liability, and that all such coverage shall be primary and non-contributory for the City, its agents, elected officials, officers, and employees. A waiver of subrogation (aka Waiver of our Right to Recover from Others Endorsement), on all coverages shall be provided; and
- C. Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.
- D. Providers' insurance is primary with respects to any other valid or collectible insurance the City may possess, including any self-insured retention that City may have; and
- E. Any deductibles or self-insured retention shall be stated on the certificates of insurance provided to the City; and

In addition to all of the insurance requirements identified above and contained on the certificates of insurance, all policies of insurance coverage under this section shall also be subject to the following requirements:

- F. All insurance carriers providing coverage under this Agreement shall be authorized to do business in the State of Illinois and shall be rated at least A:VI in A.M. Best and Companies Insurance Guide or otherwise acceptable to the City.
- G. The City of Wheaton shall have the right to reject the insurer/insurance of the contractor or any subcontractor; and
- H. Occurrence policies are preferred. The City may accept claims based policies on a case by case basis providing the Professional Services provider purchases claims made policy for two (2) years past the Agreement completion date.
- I. The City will consider deductible amounts as part of its review of the financial stability of the bidder; and
- J. No acceptance and/or approval of any insurance by the City shall be construed as relieving or excusing the Contractor, or the surety, or its bond, from any liability or obligation imposed upon either or both of them by the provisions of the Agreement Documents; and
- K. The City may require increases in Contractor's insurance coverage amounts over the course of this Agreement as it deems necessary so long as it reimburses provider for the actual increase in provider's insurance premiums attributable to the City's requested increase; and
- L. Insurance coverage required by this Agreement shall be in force throughout the Agreement's Term and upon written request by the City, the Contractor shall, within 7 days, provide to the City acceptable evidence of current insurance. Should the Contractor fail to provide acceptable evidence of current insurance following written request, the City shall have the absolute right to terminate the Agreement without any further obligation to the Contractor; and

- M. Contractual and other liability insurance provided under this Agreement shall not contain a supervision, inspection or engineering services exclusion that would preclude the City from supervising or inspecting the project to the end result. The Contractor shall assume all on-the-job responsibilities as to the control of persons directly employed by it.

- N. All existing structures, utilities, roads, services, trees, shrubbery and landscaping shall be protected against damage and interruption of service at all times by the Contractor and its subcontractors during the term of the Agreement.

END OF SPECIAL PROVISIONS FOR INSURANCE COVERAGE FOR CONTRACTED SERVICES



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s). **A waiver of subrogation is required.**

| | | |
|-------------|-------------------------------|----------------|
| PRODUCER | CONTACT NAME: | |
| | PHONE (A/C, No. Ext): | FAX (A/C, No): |
| INSURED | E-MAIL ADDRESS: | |
| | INSURER(S) AFFORDING COVERAGE | |
| | NAIC # | |
| | INSURER A : | |
| | INSURER B : | |
| | INSURER C : | |
| INSURER D : | | |
| INSURER E : | | |
| INSURER F : | | |

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE | ADDL INSR | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS | |
|----------|---|--------------------------|--------------------------|---------------|-------------------------|-------------------------|--|-----------------------|
| | GENERAL LIABILITY | | | | | | EACH OCCURRENCE | \$ \$1,000,000 |
| | <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY | | | | | | DAMAGE TO RENTED PREMISES (Ea occurrence) | \$ |
| | <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR | | | | | | MED EXP (Any one person) | \$ |
| | GEN'L AGGREGATE LIMIT APPLIES PER: | | | | | | PERSONAL & ADV INJURY | \$ \$1,000,000 |
| | <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC | | | | | | GENERAL AGGREGATE | \$ \$2,000,000 |
| | AUTOMOBILE LIABILITY | | | | | | PRODUCTS - COMP/OP AGG | \$ \$2,000,000 |
| | <input type="checkbox"/> ANY AUTO | | | | | | | \$ |
| | <input type="checkbox"/> ALL OWNED AUTOS | <input type="checkbox"/> | <input type="checkbox"/> | | | | COMBINED SINGLE LIMIT (Ea accident) | \$ \$1,000,000 |
| | <input type="checkbox"/> HIRED AUTOS | <input type="checkbox"/> | <input type="checkbox"/> | | | | BODILY INJURY (Per person) | \$ |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | | | BODILY INJURY (Per accident) | \$ |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | | | PROPERTY DAMAGE (Per accident) | \$ |
| | UMBRELLA LIAB | | | | | | | \$ |
| | <input type="checkbox"/> OCCUR | | | | | | EACH OCCURRENCE | \$ \$2,000,000 |
| | <input type="checkbox"/> EXCESS LIAB | | | | | | AGGREGATE | \$ \$2,000,000 |
| | <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$ | | | | | | | \$ |
| | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | | | | | <input type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER | |
| | ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) | <input type="checkbox"/> | <input type="checkbox"/> | | | | E.L. EACH ACCIDENT | \$ \$500,000 |
| | If yes, describe under DESCRIPTION OF OPERATIONS below | | | | | | E.L. DISEASE - EA EMPLOYEE | \$ \$500,000 |
| | Professional Liability and Errors and Omissions: Owners/Contractors Protection XCU Coverage Included with General Liability Pollution/Environmental Liability | | | | | | E.L. DISEASE - POLICY LIMIT | \$ \$500,000 |
| | | | | | | | | \$ \$1,000,000 |
| | | | | | | | | \$ \$5,000,000 |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Bid/Project Name or Contract Name and #
Contractor
Contact
Address
Phone #, Email Address, Fax #

-The City of Wheaton is an additional insured on a primary and non-contributory basis on all insurance policies with respect to Liability.
- Endorsements and a Waiver of Subrogation shall be provided for all policies with each updated certificate.
- Contractors: It shall be the responsibility of the contractor to insure that all subcontractors comply with the same insurance requirements.

CERTIFICATE HOLDER**CANCELLATION**

City of Wheaton
303 West Wesley Street
PO Box 727
Wheaton, IL 60187-0727

Attn: Procurement Officer
(fax) 630-260-2017

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Agreement Addendum 2

Special Provisions for: Wages of Employees on Public Works

This Agreement may be subject to the "Prevailing Wage Act," 820 ILCS 130/0.01 *et seq* ("The Act"). It shall be the responsibility of the Contractor to determine whether the Act is applicable and if so to comply with all its terms and conditions. Any Contractor having a question as to whether the Act is applicable shall consult with their own attorney to ascertain applicability. The City shall not have any duty to inform the Contractor of the Acts applicability. If, however the City informs the Contractor that the Act is applicable it shall be the Contractor's obligation to comply with all its terms and conditions unless the Contractor can establish to the satisfaction of the City that the Act is inapplicable. If it is determined that The Act applies to this Agreement, all Contractors and subcontractors subject to its terms shall comply with all of its provisions, including, but not limited to the following:

1. Not less than the prevailing rate of wages as found by the City of Wheaton or Department of Labor or by a court on review shall be paid to all laborers, workers and mechanics performing work under this Agreement. These prevailing rates of wages are included in this Agreement.
2. In all Contractors' bonds the Contractor shall include a provision that will guarantee the faithful performance of the prevailing wage clause provided by this Agreement.
3. If the Department of Labor revises the prevailing rate of hourly wages to be paid by the public body, the revised rate shall apply to the Contractor, and the public body shall be responsible to notify the Contractor and each subcontractor, of the revised rate.
4. The Contractor and each subcontractor shall:
 - a. make and keep, for a period of not less than 5 years, records of all laborers, mechanics, and other workers employed by them on the project; the records shall include each worker's name, address, telephone number when available, social security number, classification or classifications, the hourly wages paid in each pay period, the number of hours worked each day, the starting and ending times of work each day, the hourly wage rate, the hourly overtime wage rate, the hourly fringe benefit rates, the name and address of each fringe benefit fund, the plan sponsor or each fringe benefit, if applicable, and the plan administrator of each fringe benefit if applicable; and
 - b. submit no later than the 15th day of each calendar month, in person, by mail, or electronically a certified payroll to the City. The certified payroll shall consist of a complete copy of the records identified in paragraph 4(a), above. The certified payroll shall be accompanied by a statement signed by the Contractor or subcontractor which avers that:
 - i. such records are true and accurate;
 - ii. the hourly rate paid to each worker is not less than the general prevailing rate of hourly wages required by this Act; and
 - iii. the Contractor or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class A misdemeanor.

5. Upon 7 business days' notice, the Contractor and each subcontractor shall make available for inspection the records identified in paragraph 4 to the City of Wheaton, its officers and agents, and to the Director of Labor and his deputies and agents during reasonable hours at a location within this State during reasonable hours.

Du Page County Prevailing Wage for July 2015

(See explanation of column headings at bottom of wages)

| Trade Name | RG | TYP | C | Base | FRMAN | M-F>8 | OSA | OSH | H/W | Pensn | Vac | Trng |
|------------------------|----|-----|---|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| ===== | == | === | = | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| ASBESTOS ABT-GEN | | ALL | | 39.400 | 39.950 | 1.5 | 1.5 | 2.0 | 13.98 | 10.72 | 0.000 | 0.500 |
| ASBESTOS ABT-MEC | | BLD | | 36.340 | 38.840 | 1.5 | 1.5 | 2.0 | 11.47 | 10.96 | 0.000 | 0.720 |
| BOILERMAKER | | BLD | | 47.070 | 51.300 | 2.0 | 2.0 | 2.0 | 6.970 | 18.13 | 0.000 | 0.400 |
| BRICK MASON | | BLD | | 43.780 | 48.160 | 1.5 | 1.5 | 2.0 | 10.05 | 14.43 | 0.000 | 1.030 |
| CARPENTER | | ALL | | 44.350 | 46.350 | 1.5 | 1.5 | 2.0 | 11.79 | 16.39 | 0.000 | 0.630 |
| CEMENT MASON | | ALL | | 43.750 | 45.750 | 2.0 | 1.5 | 2.0 | 13.05 | 14.45 | 0.000 | 0.480 |
| CERAMIC TILE FNSHER | | BLD | | 36.810 | 0.000 | 1.5 | 1.5 | 2.0 | 10.55 | 9.230 | 0.000 | 0.770 |
| COMMUNICATION TECH | | BLD | | 32.650 | 34.750 | 1.5 | 1.5 | 2.0 | 9.550 | 15.16 | 1.250 | 0.610 |
| ELECTRIC PWR EQMT OP | | ALL | | 37.890 | 51.480 | 1.5 | 1.5 | 2.0 | 5.000 | 11.75 | 0.000 | 0.380 |
| ELECTRIC PWR EQMT OP | | HWY | | 39.220 | 53.290 | 1.5 | 1.5 | 2.0 | 5.000 | 12.17 | 0.000 | 0.390 |
| ELECTRIC PWR GRNDMAN | | ALL | | 29.300 | 51.480 | 1.5 | 1.5 | 2.0 | 5.000 | 9.090 | 0.000 | 0.290 |
| ELECTRIC PWR GRNDMAN | | HWY | | 30.330 | 53.290 | 1.5 | 1.5 | 2.0 | 5.000 | 9.400 | 0.000 | 0.300 |
| ELECTRIC PWR LINEMAN | | ALL | | 45.360 | 51.480 | 1.5 | 1.5 | 2.0 | 5.000 | 14.06 | 0.000 | 0.450 |
| ELECTRIC PWR LINEMAN | | HWY | | 46.950 | 53.290 | 1.5 | 1.5 | 2.0 | 5.000 | 14.56 | 0.000 | 0.470 |
| ELECTRIC PWR TRK DRV | | ALL | | 30.340 | 51.480 | 1.5 | 1.5 | 2.0 | 5.000 | 9.400 | 0.000 | 0.300 |
| ELECTRIC PWR TRK DRV | | HWY | | 31.400 | 53.290 | 1.5 | 1.5 | 2.0 | 5.000 | 9.730 | 0.000 | 0.310 |
| ELECTRICIAN | | BLD | | 38.160 | 41.980 | 1.5 | 1.5 | 2.0 | 9.550 | 18.29 | 4.680 | 0.680 |
| ELEVATOR CONSTRUCTOR | | BLD | | 50.800 | 57.150 | 2.0 | 2.0 | 2.0 | 13.57 | 14.21 | 4.060 | 0.600 |
| FENCE ERECTOR | NE | ALL | | 37.340 | 39.340 | 1.5 | 1.5 | 2.0 | 13.05 | 12.06 | 0.000 | 0.300 |
| FENCE ERECTOR | W | ALL | | 45.060 | 48.660 | 2.0 | 2.0 | 2.0 | 10.52 | 20.76 | 0.000 | 0.700 |
| GLAZIER | | BLD | | 40.500 | 42.000 | 1.5 | 2.0 | 2.0 | 13.14 | 16.99 | 0.000 | 0.940 |
| HT/FROST INSULATOR | | BLD | | 48.450 | 50.950 | 1.5 | 1.5 | 2.0 | 11.47 | 12.16 | 0.000 | 0.720 |
| IRON WORKER | E | ALL | | 44.200 | 46.200 | 2.0 | 2.0 | 2.0 | 13.65 | 21.14 | 0.000 | 0.350 |
| IRON WORKER | W | ALL | | 45.060 | 48.660 | 2.0 | 2.0 | 2.0 | 10.52 | 20.76 | 0.000 | 0.700 |
| LABORER | | ALL | | 39.200 | 39.950 | 1.5 | 1.5 | 2.0 | 13.98 | 10.72 | 0.000 | 0.500 |
| LATHER | | ALL | | 44.350 | 46.350 | 1.5 | 1.5 | 2.0 | 11.79 | 16.39 | 0.000 | 0.630 |
| MACHINIST | | BLD | | 45.350 | 47.850 | 1.5 | 1.5 | 2.0 | 7.260 | 8.950 | 1.850 | 0.000 |
| MARBLE FINISHERS | | ALL | | 32.400 | 34.320 | 1.5 | 1.5 | 2.0 | 10.05 | 13.75 | 0.000 | 0.620 |
| MARBLE MASON | | BLD | | 43.030 | 47.330 | 1.5 | 1.5 | 2.0 | 10.05 | 14.10 | 0.000 | 0.780 |
| MATERIAL TESTER I | | ALL | | 29.200 | 0.000 | 1.5 | 1.5 | 2.0 | 13.98 | 10.72 | 0.000 | 0.500 |
| MATERIALS TESTER II | | ALL | | 34.200 | 0.000 | 1.5 | 1.5 | 2.0 | 13.98 | 10.72 | 0.000 | 0.500 |
| MILLWRIGHT | | ALL | | 44.350 | 46.350 | 1.5 | 1.5 | 2.0 | 11.79 | 16.39 | 0.000 | 0.630 |
| OPERATING ENGINEER | | BLD | 1 | 48.100 | 52.100 | 2.0 | 2.0 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | BLD | 2 | 46.800 | 52.100 | 2.0 | 2.0 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | BLD | 3 | 44.250 | 52.100 | 2.0 | 2.0 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | BLD | 4 | 42.500 | 52.100 | 2.0 | 2.0 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | BLD | 5 | 51.850 | 52.100 | 2.0 | 2.0 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | BLD | 6 | 49.100 | 52.100 | 2.0 | 2.0 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | BLD | 7 | 51.100 | 52.100 | 2.0 | 2.0 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | FLT | | 36.000 | 36.000 | 1.5 | 1.5 | 2.0 | 17.10 | 11.80 | 1.900 | 1.250 |
| OPERATING ENGINEER | | HWY | 1 | 46.300 | 50.300 | 1.5 | 1.5 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | HWY | 2 | 45.750 | 50.300 | 1.5 | 1.5 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | HWY | 3 | 43.700 | 50.300 | 1.5 | 1.5 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | HWY | 4 | 42.300 | 50.300 | 1.5 | 1.5 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | HWY | 5 | 41.100 | 50.300 | 1.5 | 1.5 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | HWY | 6 | 49.300 | 50.300 | 1.5 | 1.5 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| OPERATING ENGINEER | | HWY | 7 | 47.300 | 50.300 | 1.5 | 1.5 | 2.0 | 17.55 | 12.65 | 1.900 | 1.250 |
| ORNAMNTL IRON WORKER E | | ALL | | 45.000 | 47.500 | 2.0 | 2.0 | 2.0 | 13.55 | 17.94 | 0.000 | 0.650 |
| ORNAMNTL IRON WORKER W | | ALL | | 45.060 | 48.660 | 2.0 | 2.0 | 2.0 | 10.52 | 20.76 | 0.000 | 0.700 |
| PAINTER | | ALL | | 41.730 | 43.730 | 1.5 | 1.5 | 1.5 | 10.30 | 8.200 | 0.000 | 1.350 |
| PAINTER SIGNS | | BLD | | 33.920 | 38.090 | 1.5 | 1.5 | 1.5 | 2.600 | 2.710 | 0.000 | 0.000 |
| PILEDRIIVER | | ALL | | 44.350 | 46.350 | 1.5 | 1.5 | 2.0 | 11.79 | 16.39 | 0.000 | 0.630 |
| PIPEFITTER | | BLD | | 46.000 | 49.000 | 1.5 | 1.5 | 2.0 | 9.000 | 15.85 | 0.000 | 1.780 |
| PLASTERER | | BLD | | 43.430 | 46.040 | 1.5 | 1.5 | 2.0 | 10.05 | 14.43 | 0.000 | 1.020 |
| PLUMBER | | BLD | | 46.650 | 48.650 | 1.5 | 1.5 | 2.0 | 13.18 | 11.46 | 0.000 | 0.880 |
| ROOFER | | BLD | | 41.000 | 44.000 | 1.5 | 1.5 | 2.0 | 8.280 | 10.54 | 0.000 | 0.530 |

| | | | | | | | | | | | |
|--------------------------|-------------------------------|----------------|-------------------|-------------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|
| SHEETMETAL WORKER | BLD | 44.720 | 46.720 | 1.5 | 1.5 | 2.0 | 10.65 | 13.31 | 0.000 | 0.820 | |
| SPRINKLER FITTER | BLD | 49.200 | 51.200 | 1.5 | 1.5 | 2.0 | 11.75 | 9.650 | 0.000 | 0.550 | |
| STEEL ERECTOR | E ALL | 42.070 | 44.070 | 2.0 | 2.0 | 2.0 | 13.45 | 19.59 | 0.000 | 0.350 | |
| STEEL ERECTOR | W ALL | 45.060 | 48.660 | 2.0 | 2.0 | 2.0 | 10.52 | 20.76 | 0.000 | 0.700 | |
| STONE MASON | BLD | 43.780 | 48.160 | 1.5 | 1.5 | 2.0 | 10.05 | 14.43 | 0.000 | 1.030 | |
| SURVEY WORKER | ->NOT IN EFFECT | ALL | 37.000 | 37.750 | 1.5 | 1.5 | 2.0 | 12.97 | 9.930 | 0.000 | 0.500 |
| TERRAZZO FINISHER | BLD | 38.040 | 0.000 | 1.5 | 1.5 | 2.0 | 10.55 | 11.22 | 0.000 | 0.720 | |
| TERRAZZO MASON | BLD | 41.880 | 44.880 | 1.5 | 1.5 | 2.0 | 10.55 | 12.51 | 0.000 | 0.940 | |
| TILE MASON | BLD | 43.840 | 47.840 | 1.5 | 1.5 | 2.0 | 10.55 | 11.40 | 0.000 | 0.990 | |
| TRAFFIC SAFETY WRKR | HWY | 32.750 | 34.350 | 1.5 | 1.5 | 2.0 | 6.550 | 6.450 | 0.000 | 0.500 | |
| TRUCK DRIVER | ALL 1 | 35.920 | 36.120 | 1.5 | 1.5 | 2.0 | 8.280 | 8.760 | 0.000 | 0.150 | |
| TRUCK DRIVER | ALL 2 | 32.700 | 33.100 | 1.5 | 1.5 | 2.0 | 6.500 | 4.350 | 0.000 | 0.150 | |
| TRUCK DRIVER | ALL 3 | 32.900 | 33.100 | 1.5 | 1.5 | 2.0 | 6.500 | 4.350 | 0.000 | 0.150 | |
| TRUCK DRIVER | ALL 4 | 33.100 | 33.100 | 1.5 | 1.5 | 2.0 | 6.500 | 4.350 | 0.000 | 0.150 | |
| TUCKPOINTER | BLD | 42.620 | 43.620 | 1.5 | 1.5 | 2.0 | 10.05 | 13.34 | 0.000 | 0.670 | |

Legend: RG (Region)

TYP (Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers)

C (Class)

Base (Base Wage Rate)

FRMAN (Foreman Rate)

M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.)

OSA (Overtime (OT) is required for every hour worked on Saturday)

OSH (Overtime is required for every hour worked on Sunday and Holidays)

H/W (Health & Welfare Insurance)

Pensn (Pension)

Vac (Vacation)

Trng (Training)

Explanations

DUPAGE COUNTY

IRON WORKERS AND FENCE ERECTOR (WEST) - West of Route 53.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

TRAFFIC SAFETY - work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary lane markings, and the installation and removal of temporary road signs.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS TECHNICIAN

Low voltage installation, maintenance and removal of telecommunication facilities (voice, sound, data and video) including telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated system digital network), pulling of wire in raceways, but not the installation of raceways.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior

and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under; Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300

ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEER - FLOATING

Diver. Diver Wet Tender, Diver Tender, ROV Pilot, ROV Tender

SURVEY WORKER - Operated survey equipment including data collectors, G.P.S. and robotic instruments, as well as conventional levels and transits.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".

Agreement #: _____
 Agreement Addendum #: _____
For Office Use Only

Agreement Between the City of Wheaton, IL
 and _____

2017 WEST STREET WATER MAIN REHABILITATION PROJECT

CHANGE ORDER # _____

Change Order required due to:

- Changed/Unforeseen Condition
- Change in Scope
- Errors and Omissions
- Other: _____

Type of Change Order:

- Fixed Cost of \$ _____
- Time & Materials, not to exceed: \$ _____
- Emergency Change, not to exceed \$ _____
- Extension of Completion Date

Attached is: Contractor's Proposal Description of Change

Cost and Schedule Control Summary

If this section is left blank, Change Order will not result in additional charges:

| | |
|---------------------------|----------|
| Original Agreement Amount | \$ _____ |
| Previous COs Adds/Deducts | \$ _____ |
| This CO Add/Deduct | \$ _____ |
| Revised Agreement Amount | \$ _____ |

If this section is left blank, Change Order will not result in additional time to complete the project:

| | |
|-----------------------------------|------------|
| Original Agreement Duration | _____ days |
| Previous COs Add/Deduct | _____ days |
| This CO Add/Deduct | _____ days |
| Revised Agreement Duration | _____ days |
| Revised Agreement Completion Date | _____ |

The compensation (time and cost set forth in this Change Order comprises the total compensation due the Contractor, all subcontractors, and all suppliers, for the work or change defined in this Change Order, including impact on the unchanged work. By signing the Change Order, the Contractor acknowledges and agrees on behalf of himself, all subcontractors, and all suppliers, that the stipulated compensation includes payment for all work contained in the Change Order, plus all payment interruptions of schedules, extended field overhead costs, delay, and all impact, ripple effect or cumulative impact on all other work under this Agreement. The signing of the Change Order indicates that the Change Order constitutes full mutual accord and satisfaction of subcontractors, and all suppliers, as a result of the change. The Contractor on behalf of himself, all subcontractors and all suppliers, agrees to waive all rights, without exception or reservation of any whatsoever to file any further claim related to the Change Order. No further claim or request for equitable adjustment of any type shall rise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the work under this Agreement.

All terms and Conditions of the original Agreement apply to this Change Order and remain the same and in full force and effect.

For Budget Purposes

Project Manager: _____ Date: _____ Department Head: _____ Date: _____

Contractor: _____ Date: _____

Upon approval, forward this document to Procurement for Amendment of Agreement.