


# VILLAGE OF VILLA PARK

# CONTRACT DOCUMENTS

**FOR**

# WASHINGTON STREET SEWER SEPARATION – PHASE 1

## APRIL 15, 2022

**PREPARED BY**

## CHRISTOPHER B. BURKE ENGINEERING, LTD.

# ADVERTISEMENT FOR BIDS
# VILLAGE OF VILLA PARK
# FRIDAY, APRIL 15, 2022

**PROJECT: WASHINGTON STREET SEWER SEPARATION – PHASE 1**
This project consists of installing approximately 2,700 linear feet of storm sewer varying in size from 12" to 54". The project also includes ductile iron water main installation, sanitary sewer installation, pavement removal, aggregate base course, Hot-Mix Asphalt Binder Course, Hot-Mix Asphalt Surface Course, curb and gutter removal and replacement, sidewalk removal and replacement, driveway pavement removal and replacement, sanitary service installation, water service installation, earth excavation and landscape restoration.

**BID DEADLINE: THURSDAY, JUNE 1, 2022, 10:00 A.M. LOCAL TIME**
The Village reserves the right to extend the Bid Deadline from this date and time to accept Bids submitted after the Bid Deadline, as the Village, in its sole discretion, determines is in the best interest of the Village.

**NOTICE:** Separate, sealed proposals for the **WASHINGTON STREET SEWER SEPARATION – PHASE 1** will be received by the Village of Villa Park, Illinois, through QuestCDN at https://www.questcdn.com under **QuestCDN Project #8181433** until the Bid Deadline. Immediately thereafter, the proposals will be opened and read aloud via Zoom. Notwithstanding the foregoing, the Village reserves the right to defer, postpone, delay, or reschedule the Bid Opening for such time and to such date as the Village, in its sole discretion, determines is in the best interest of the Village.

The Bid Opening Zoom meeting may be accessed as follows:
https://us06web.zoom.us/j/82798570263?pwd=U3d3d0JvNEhhNy9abkY3ZmVneEtVZz09
Meeting ID: 827 9857 0263
Passcode: 458897

Proposals shall be submitted in accordance with the Bidding Documents prepared by Christopher B. Burke Engineering, Ltd., 9575 W. Higgins Road, Rosemont, IL 60018.

"Any contract or contracts awarded under this invitation for bids are expected to be funded in part by a loan from the Illinois Environmental Protection Agency (Illinois EPA). Neither the State of Illinois nor any of its departments, agencies, or employees is or will be a party to this invitation for bids or any resulting contract. The procurement will be subject to regulations contained in the Procedures for Issuing Loans from the Water Pollution Control Loan Program (35 IAC Part 365), the Davis-Bacon Act (40 USC 276a through 276a-5) as defined by the United States Department of Labor, the Employment of Illinois Workers on Public Works Act (30 ILCS 570), IL Works Jobs Program Act (30 ILCS 559/20-1), and the "Use of American Iron and Steel" requirements as contained in Section 436 of H.R. 3547, The Consolidated Appropriations Act, 2014. This procurement is also subject to the loan recipient's policy regarding the increased use of

disadvantaged business enterprises. The loan recipient's policy requires all bidders to undertake specified affirmative efforts at least sixteen (16) days prior to bid opening. The policy is contained in the specifications. Bidders are also required to comply with the President's Executive Order No. 11246, as amended. The requirements for bidders and contractors under this order are explained in 41 CFR 60-4."

**BIDDER QUALIFICATIONS:** Bidders, in submitting a Bid, shall comply with all applicable Federal, State and Local laws and requirements; shall provide documentation of that compliance in accordance with the requirements of the Contract Documents or as requested be the Village; and, in submitting a Bid, Bidders affirm that they are qualified under all applicable laws and requirements to do so, and agree to be bound by the determination of the Village as to Bidder's compliance and qualifications.

**Each BIDDER shall be IDOT Pre-Qualified for 012 – Drainage ($4,000,000 minimum).** Prequalification by IDOT will be required of all subcontractors on this project in the respective discipline(s) they will be responsible for constructing. The Village may choose to waive this requirement if, in the Village's determination, the contractor has demonstrated the ability to perform work of a similar nature and scope to that set forth in this contract.

**MANDATORY PRE-BID MEETING: TUESDAY, MAY 24, 2022, 10:00 AM LOCAL TIME**
A mandatory pre-bid meeting will be held via Zoom. The mandatory pre-bid Zoom meeting may be accessed as follows:
https://us06web.zoom.us/j/87654630164?pwd=eGltR2M5dHIzbHRFOEZRWDN6MjdDZz09
Meeting ID: 876 5463 0164
Passcode: 036632

**BID SECURITY:** A bid bond in the amount of not less than five percent (5%) of the Bid shall accompany each Bid in accordance with the Bidding Documents.

**CONTRACT SECURITY:** The Bidder to whom a Contract is awarded shall be required to furnish both a Performance Bond and a Payment Bond acceptable to the Village for one-hundred percent (100%) of the Contract Price, in accordance with the requirements of the Contract Documents.

**REQUESTS FOR INFORMATION OR CLARIFICATION:** All requests for information or clarification shall be submitted to the Village of Villa Park by email to **engineering@invillapark.com**. All responses that are provided to requests for information or clarification will be provided through QuestCDN at https://www.questcdn.com under **QuestCDN Project #8181433.** The Village will accept requests for information or clarification submitted in accordance with the above requirements until **THURSDAY, MAY 26, 2022, 04:00 PM LOCAL TIME**. Requests for information or clarification received after such time will not be accepted and will receive no response.

**RIGHTS RESERVED:** The Village will select the lowest, most responsible bidder. The Village reserves the right to reject any and all Bids, to waive any informalities or technicalities in bidding, and to accept the Bid which best serves the interests of the Village. The Village shall, in its sole discretion, determine what does or does not constitute an informality or technicality, and, in submitting a Bid, Bidder agrees to be bound by that determination.

The Village may make such investigations as it deems necessary to determine the ability of the Bidder to perform the Work, and the Bidder shall furnish to the Village all such information and data for this purpose as the Village may request. The Village reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Village that such Bidder is properly qualified to carry out the obligations of the Agreement and to complete the Work contemplated therein.

**WAGE RATES:** All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout.

Any contract or contracts awarded under this invitation for bids are expected to be funded in part by a loan from the Illinois Environmental Protection Agency (Illinois EPA). Davis-Bacon Wage Decisions also apply and are only superseded in instances by and where Illinois Prevailing Wages exceeds Davis-Bacon in wage, fringe benefits, and/or trade stipulations (requirements). If this project does not start within 90 days of award, the wage determinations shall be replaced with the most current decisions.

**NON-DISCRIMINATION CLAUSE:** All contracts between the Subgrantee and the Contractor and all subcontracts thereafter must include the following non-discrimination clause: “Employers shall not discriminate against employees or applicants for employment on basis of race, color, religion, sex, national origin, age, familial status, or disability.”

**BIDDING DOCUMENTS:** The Bidding Documents may be obtained from QuestCDN at https://www.questcdn.com under **QuestCDN Project #8181433** for a non-refundable fee of thirty dollars ($30.00). An active QuestCDN account and login are required. Questions or issues regarding the QuestCDN platform shall be directed to QuestCDN by phone at 952-233-1632 or by email at info@questcdn.com. Hard copies of bidding documents will not be made available. An electronic “Not for Bid” version of the bidding documents in Portable Document Format (PDF) will be available for download on the project page on the Village of Villa Park’s website at https://www.invillapark.com. This version of the bidding documents is for informationally purposes only and may not be used for the preparation or submittal of a bid.

**PUBLISHED BY AUTHORITY OF THE VILLAGE OF VILLA PARK, COUNTY OF DUPAGE, STATE OF ILLINOIS.**

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# CONTRACT REQUIREMENTS AND FORMS

## INFORMATION FOR BIDDERS

A mandatory pre-bid meeting will be held via ZOOM VIDEO CONFERENCE on MAY 24, 2022 AT 10:00 A.M. **The URL for the Zoom Conference is:**
https://us06web.zoom.us/j/87654630164?pwd=eGltR2M5dHIzbHRFOEZRWDN6MjdDZz09

BIDS will be received by VILLAGE OF VILLA PARK (herein called the "OWNER"), via QUESTCDN AT HTTPS://WWW.QUESTCDN.COM UNDER QUESTCDN PROJECT #8181433 until JUNE 1, 2022, and then publicly opened and read aloud via Zoom Video Conference. **The URL for the Zoom conference is:**
https://us06web.zoom.us/j/82798570263?pwd=U3d3d0JvNEhhNy9abkY3ZmVneEtVZz09

**Each BIDDER shall be IDOT Pre-Qualified for 012 – Drainage ($4,000,000 minimum).** Prequalification by IDOT will be required of all subcontractors on this project in the respective discipline(s) they will be responsible for constructing. The Village may choose to waive this requirement if, in the Village's determination, the contractor has demonstrated the ability to perform work of a similar nature and scope to that set forth in this contract.

Each BID must be submitted electronically via QuestCDN under QuestCDN Project #8181433. in a sealed envelope, addressed to VILLAGE OF VILLA PARK at 11 WEST HOME AVENUE, VILLA PARK, IL 60181. Each separate, sealed bid shall indicate the name of the BIDDER, his/her address, his/her license number if applicable and the name of the project for which the BID is submitted. No hard copy bids will be accepted.

All BIDS must be entered electronically on the QuestCDN BID form. All blank spaces for BID prices must be filled in, and the BID form must be fully completed and executed when submitted.

Any BID may be modified or withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified shall not be considered. No BIDDER may withdraw a BID within 90 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the OWNER and the BIDDER.

BIDDERS must satisfy themselves of the accuracy of the estimated quantities in the BID Schedule by examination of the site and a review of the drawings and specifications including ADDENDA. After BIDS have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done.

The OWNER shall provide to BIDDERS prior to BIDDING, all information that is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired.

The CONTRACT DOCUMENTS contain the provisions required for the construction of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the contract.

A BID bond payable to the OWNER must accompany each BID for five percent of the total amount of the BID. As soon as the BID prices have been compared, the OWNER will return the BONDS of all except the three lowest responsible BIDDERS. When the Agreement is executed the bonds of the two remaining unsuccessful BIDDERS will be returned. The BID BOND of the successful BIDDER will be retained until the payment BOND and performance BOND have been executed and approved, after which it will be returned. A certified check may be used in lieu of a BID BOND.

A performance BOND and a payment BOND, each in the amount of 100 percent of the CONTRACT PRICE, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract.

Attorneys-in-fact who sign BID BONDS or payment BONDS and performance BONDS must file with each BOND a certified and effective dated copy of their power of attorney.

Any contract entered into by the loan recipient and any sub-agreement hereunder, shall provide that representatives of the Agency will have access to the work whenever it is in preparation or progress and that the contractor or subcontractor will provide proper facilities for such access and inspection. Such contract or sub-agreement must also provide that the Agency or any authorized representative shall have access to any books, documents, papers, and records of the contractor or subcontractor, which are pertinent to the project for the purpose of making audit, examination, excerpts, and transcriptions thereof.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the performance BOND and payment BOND within ten (10) calendar days from the date when NOTICE OF AWARD is delivered to the BIDDER. The necessary Agreement and BOND forms shall accompany the NOTICE OF AWARD. In case of failure of the BIDDER to execute the Agreement, the OWNER may at his option consider the BIDDER in default, in which case the BID BOND accompanying the proposal shall become the property of the OWNER.

The OWNER within ten (10) days of receipt of acceptable performance BOND, payment BOND and Agreement signed by the party to whom the Agreement was awarded shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the OWNER not execute the Agreement within such period, the BIDDER may by WRITTEN NOTICE withdraw his signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the OWNER.

The OWNER shall issue the NOTICE TO PROCEED within ten (10) days of the execution of the Agreement. Should there be reasons why the NOTICE TO PROCEED cannot be issued within such period, the time may be extended by mutual agreement between the OWNER and CONTRACTOR. If the NOTICE TO PROCEED has not been issued within the ten (10) day period or within the period mutually agreed upon, the CONTRACTOR might terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as he deems necessary to determine the ability of the BIDDER to perform the WORK, and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out the obligations of the Agreement and to complete the WORK contemplated therein.

A conditional or qualified BID will not be accepted.

Award will be made to the low, responsive, responsible BIDDER.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout including the Employment of Illinois Workers on Public Works Act (30 ILCS 570) and the Davis-Bacon Wage Act (40 USC 276a through 276a-5) as defined by the United States Department of Labor.

All BIDDERS will comply with Sec. 436 of H.R. 3547, “The Consolidated Appropriations Act, 2014”, which specifies that all “iron and steel products” used in the project are produced in the United States.

BIDDER shall not discriminate on the basis of race, color, national origin or sex in the performance of this contract. The contractor shall carry out applicable requirements of 40 CFR Part 33 in the award and administration of contracts awarded under EPA financial assistance agreements. Failure by the contractor to carry out these requirements is a material breach of this contract which may result in the termination of this contract or other legally available remedies.

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to his BID.

Each BIDDER shall supply a list of all subcontractors that submitted proposals and if requested by the OWNER all major material suppliers.

The ENGINEER is CHRISTOPHER B. BURKE ENGINEERING, LTD. His/her address is 9575 W. HIGGINS ROAD, SUITE 600, ROSEMONT, IL 60018.

## BID FORM OR PROPOSAL

Proposal of _____ (hereinafter called "BIDDER"), organized and existing under the laws of the State of _____ doing business as_____*
to the _____ (hereinafter called "OWNER").

In compliance with your Advertisement for Bids, BIDDER hereby proposes to perform all WORK for the construction of _____
_____
in strict accordance with the CONTRACT DOCUMENTS, within the time set forth therein, and at the prices stated below.

BIDDER hereby agrees to commence WORK under this contract on or before a date to be specified in the NOTICE TO PROCEED and fully complete the PROJECT within 210 Calendar Days. BIDDER further agrees to pay as liquidated damages, the sum of $1,425 for each consecutive calendar day thereafter.

BIDDER certifies that all iron and steel products used in the project for the construction, alteration, maintenance, or repair of a public water system are produced in the United States in compliance with Section 436. (a) – (f) of H. R. 3547, "The Consolidated Appropriation Act, 2014".

* **Insert "a corporation", "a partnership", or "an individual" as applicable.**

(I) By submission of the bid, each bidder certifies, and in the case of a joint bid each party thereto certifies as to his own organization, that in connection with the bid:

(i) The prices in the bid have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;

(ii) Unless otherwise required by law, the prices which have been quoted in the bid have not knowingly been disclosed by the bidder, prior to opening, directly or indirectly to any other bidder or to any competitor; and

(iii) No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a bid for the purpose of restricting competition.

(II) Each person signing the bid shall certify that:

(i) He is the person in the bidder's organization responsible within that organization for the decision as to the prices being bid and that he has not participated, and will not participate, in any action contrary to (I) (i) through (I)(iii) above; or

(ii) He is not the person in the bidder's organization responsible within that organization for the decision as to the prices being bid but that he has been authorized to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to (I)(i) through (I)(iii) above, and as their agent shall so certify; and shall also certify that he has not participated, and will not participate, in any action contrary to (I)(i) through (I)(iii) above.

BIDDER acknowledges receipt of the following ADDENDUM (where applicable):
_____
_____
_____

BIDDER certifies that wages paid in connection with the PROJECT shall be paid at prevailing rates not less than those prevailing under the Davis-Bacon Wage Act. Bidder further certifies that the provisions contained in the following clauses will be exercised in the performance of any contract resulting from this BID and are made a part of the CONTRACT DOCUMENTS thereto by their inclusion in the BID as follows:

(1) *Minimum wages.*

(i) All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work performed, without regard to skill, except as provided in §5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. Sub recipients may obtain wage determinations from the U.S. Department of Labor's web site, http://beta.sam.gov/

(ii) (A) The sub-recipient, on behalf of USEPA, shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The USEPA award official shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

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

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

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

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

(C) In the even the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the sub-recipient do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), IEPA shall refer the questions, including the views of all interested parties and the recommendation of the sub-recipient, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise IEPA or will notify IEPA within the 30-day period that additional time is necessary.

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

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

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

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

(3) *Payrolls and basic records.*

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing

benefits under a plan or program described in section 1(b)(2)(B) of the Davis Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

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

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

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

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

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

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

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

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

(4) *Apprentices and trainees*

(i) *Apprentices.* Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid no less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

*(ii)* *Trainees.* Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and

individually registered in a program which has received prior approval, evidenced by form certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

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

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

(6) *Subcontracts.* The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the USEPA may by appropriate instruction require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

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

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

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

(10) *Certification of eligibility.*

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

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

(iii) The penalty for making false statements in prescribed in the U.S. Criminal Code, 18 U.S.C. 1001

**Contract Provision for Contracts in Excess of $100,000 -** clauses (1) through (4) shall be inserted in full in any contract in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act.

**Contract Work Hours and Safety Standards Act**

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

(2) *Violation; liability for unpaid wages; liquidated damages.* In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanics, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of $25 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

(3) *Withholding for unpaid wages and liquidated damages.* The sub-recipient, shall upon its own action or upon written request of the USEPA award official or an authorized representative of the Department of Labor, withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) *Subcontracts.* The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

**The following shall be inserted into any contract subject only to the Contract Work Hours and Safety Standards Act.**

The contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the USEPA and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.



*******Insert applicable current Davis-Bacon Wage Rates Here*******

"General Decision Number: IL20220011 02/25/2022

Superseded General Decision Number: IL20210011

State: Illinois

Construction Types: Heavy and Highway

Counties: Boone, De Kalb, Du Page, Kane, Kendall, Lake, McHenry and Will Counties in Illinois.

HEAVY AND HIGHWAY CONSTRUCTION PROJECTS (does not include landscape projects).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

| | |
|---|---|
| If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022: | . Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022. |
| If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022: | . Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022. |

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

| Modification Number | Publication Date |
|---|---|
| 0 | 01/07/2022 |
| 1 | 02/25/2022 |

CARP0555-003 06/01/2021

DUPAGE ANE LAKE COUNTIES

| | Rates | Fringes |
|---|---|---|
| CARPENTER | | |
| Building | $ 50.86 | 37.34 |
| Heavy & Highway | $ 50.86 | 37.34 |

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CARP0555-008 06/01/2020

WILL COUNTY

| | Rates | Fringes |
|---|---|---|
| Carpenter and Piledriver | $ 49.76 | 38.26 |

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CARP0555-011 06/01/2021

KANE, McHENRY (North of Hwy 52), AND KENDALL COUNTIES

| | Rates | Fringes |
|---|---|---|
| Carpenter and Piledriver | $ 50.86 | 37.35 |

CARP0790-003 05/01/2021

DE KALB COUNTY

| | Rates | Fringes |
|---|---|---|
| CARPENTER | $ 44.81 | 32.72 |

CARP0790-004 05/01/2021

CARROLL, JO DAVIESS, LEE, OGLE (Oregon and South thereof), STEPHENSON, and WHITESIDE COUNTIES

| | Rates | Fringes |
|---|---|---|
| CARPENTER | $ 44.81 | 32.72 |

CARP0792-003 05/01/2021

BOONE COUNTY

| | Rates | Fringes |
|---|---|---|
| CARPENTER | $ 46.00 | 31.53 |

ELEC0009-002 05/30/2021

WILL COUNTY

| | Rates | Fringes |
|---|---|---|
| Line Construction | | |
| Groundman | $ 44.11 | 62.32% |
| Lineman and Equipment Operator | $ 56.66 | 62.32% |

ELEC0117-001 05/31/2021

KANE (Northern Half) and McHENRY (All) COUNTIES

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 52.28 | 36.46 |

ELEC0150-001 05/31/2021

LAKE COUNTY

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 42.82 | 45.77 |

ELEC0176-011 06/01/2020

WILL COUNTY

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 47.00 | 41.09 |

ELEC0196-001 03/02/2020

BOONE, DEKALB, DUPAGE, KANE, KENDALL, LAKE, and MCHENRY COUNTIES

| | Rates | Fringes |
|---|---|---|
| Line Construction | | |
| Equipment Operator | $ 44.61 | 36.25%+6.50+A |
| Groundman Truck Driver | $ 35.52 | 36.25%+6.50+A |
| Groundman | $ 34.27 | 36.25%+6.50+A |
| Lineman, Substation Technician, Cable Splicing Technician, Digger Operator, Crane Operator 20 tons and above, and Signal Technician | $ 53.63 | 36.25%+6.50+A |

FOOTNOTE: A. PAID HOLIDAYS: Memorial Day, Independence Day, Labor Day, and Thanksgiving Day

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ELEC0364-003 05/31/2021

BOONE (All) & DEKALB (Remainder) COUNTIES

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 50.00 | 38.42 |

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ELEC0461-006 05/31/2021

DEKALB (Sandwich TWP), KANE (Southern Half) & KENDALL (All) COUNTIES

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 51.00 | 36.62 |

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ELEC0701-001 06/03/2019

DUPAGE COUNTY

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 41.00 | 105.86% |

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ENGI0150-015 06/01/2021

BOONE and DE KALB COUNTIES

| | Rates | Fringes |
|---|---|---|
| OPERATOR: Power Equipment | | |
| Group 1 | $ 47.90 | 44.70 |
| Group 2 | $ 47.35 | 44.70 |
| Group 3 | $ 46.05 | 44.70 |
| Group 4 | $ 44.60 | 44.70 |
| Group 5 | $ 43.15 | 44.70 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt Plant; Asphalt Heater and Planer combination; Asphalt Spreader; Asphalt Silo Tender; Autograder, GOMACO or similar; Belt Loader; Caisson Rigs; Car Dumper, Central Redi-Mix Plant; Combination Backhoe Front End Loader Machine (1 cu yd or over Backhoe bucket with attachments); Backhoe with Shear attachment; Concrete Breaker (truck mounted); Concrete Conveyor; Concrete Paver over 27E cu ft; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Hammerhead, Linden, Peco and machines of a like nature; Creter Crane; Crusher, stone; Derricks; Derrick Boats; Derricks, traveling; Dredges; Field Mechanic Welder; Formless Curb and Gutter Machine; Gradall and machines of a like nature; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver mounted; Hoists, one, two, and three Drum; Hydraulic Backhoes; Locomotive, all Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill-Crawler or Skid Rig; Rock Drill truck mounted; Roto Mill Grinder, 36"" and over; Roto Mill Grinder, less than 36""; Slip- Form Paver; Soil Test Drill Rig, truck mounted; Straddle Buggies; GCI Crane and similar; Hydraulic Telescoping Form (tunnel); Tie Back MAchine; Tractor Drawn Belt Loader: Tractor Drawn Belt Loader with attached Pusher; Tractor with boom; Tractaire with attachment; Traffic Barrier Conveyor Machine; Raised or Blind Hoe Drill (Tunnel & Shaft); Trenching Machine; Truck Mounted Concrete Pump with boom; Truck mounted Concrete Conveyor; Underground Boring and/or Mining Machines under 5 ft; Wheel Excavator & Widener (Apsco)

GROUP 2: Batch Plant; Bituminous Mixer; Bobcats over .75 cu yd; Boiler and Throttle Valve; Bulldozer; Car Loader Trailing Conveyors; Combination Backkhoe Front End Loader Machine, less than 1 cu yd Backhoe Bucket 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; Conveyor Muck Cars (Haglund or similar type); Finishing Machine-Concrete; Greaser Engineer; Highlift Shovels or Front End Loader; Hoist-Sewer Dragging Machine; Hydraulic Boom Trucks, all attachments; Locomotives, Dinky; Pump

Cretes, Squeeze Cretes-Screw Type pumps, Gypsum Bulker and Pump; Roller Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc self-Propelled; Scoops-Tractor Drawn; Self-propelled Compactor; Spreader-Chip- Stone etc; Scraper; Scraper-Prime Mover in Tandem regardless of size (add $1.00 to to Group 2 hourly rate for each hour and for each machine attached thereto); Tank Car Heater; Tractors, Push, pulling Sheeps Foot, Disc, or Compactor, etc; Tug Boats

GROUP 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; Fireman on Boilers; Forklift Trucks; Grouting Machines; Hoists, Automatic; Hoists, all Elevators; Hoists, Tugger single Drum; Jeep Diggers; 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

GROUP 4: Air compressor - Small 185 and under (1 to 5 not to exceed a total of 300 ft); Air Compressor - Large over 185; Asphalt Spreader Backend Man; Combination - Small Equipment Operator; Generators - Small 50 kw and under; Generators - Large , over 50 kw; Heaters, Mechanical; Hydraulic power unit (Pile Driving, Extracting or Drilling); Light Plants All (1 to 5); Pumps, over 3"" (1 to 3, not to exceed a total of 300 ft); Pumps, Well Points; Tractaire; Welding Machines (2 through 5); Winches, 4 small electric drill winches; Bobcats up to and including .75 cu yd

GROUP 5: Oilers

PREMIUM PAY:

Long Boom :
Cranes & Derricks 90' to 150' including jib receive an extra $.50 per hour. Cranes & Derricks over 150' including jib receive an extra $.50 per hour plus an additional $.10 for each additional 10' of boom or jib.

Capacity Pay: Cranes & Derricks with maximum capacity exceeding 50 ton with less than 90' of boom or jib shall be compensated $.01 per hour for each ton of the rated capacity in excess of 50 ton.

Long Boom pay and Capacity pay cannot be combined.

Crane mounted earth auger, raised and blind hole drills, and truck mounted drill rigs receive an extra $.50 per hour.

Creter Cranes:
When the Creter Crane is equipped with a conveyor system capable of extending 70' or more, the engineer shall receive an extra $.50 per hour.

Truck Mounted Concrete Pumps:
When the Truck Mounted Concrete Pump is equipped with a boom, which is capable of extending 90' or more, the engineer shall receive $.50 per hour extra.

Truck Mounted Concrete Conveyor:
Truck Mounted Concrete Conveyors equipped with conveyors that are capable of extending 90' or more, the engineer shall receive an extra $.50 per hour.

Underground Work:
Employees working in tunnels, shafts, etc. shall be paid an additional $.40 per hour. Employees working under air pressure 1/2 pound to 7 pounds shall receive an additional $.50 per hour. Employees working under air pressure of 7 pounds or over shall receive $.65 per hour more.

Mining Machines- Boring Machines:
The crew operating and maintaining the Mining Machines shall be compensated an additional $.50 per hour.

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* ENGI0150-024 06/01/2021

DUPAGE, KANE, KENDALL, LAKE, McHENRY, and WILL COUNTIES

| | Rates | Fringes |
|---|---|---|
| OPERATOR: Power Equipment | | |
| GROUP 1 | $ 51.80 | 44.40 |

| | | |
|---|---|---|
| GROUP 2 | $ 51.25 | 44.40 |
| GROUP 3 | $ 49.20 | 44.40 |
| GROUP 4 | $ 47.80 | 44.40 |
| GROUP 5 | $ 46.60 | 44.40 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt Plant*; Asphalt Heater and Planer combination; Asphalt Heater Scarfire*, Asphalt Spreader; Autograder/ GOMACO or similar; ABG Paver*, Backhoes with Caisson attachment*, Ballast Regulator, Belt Loader*; Caisson Rigs*Car Dumper, Central Redi-Mix Plant*, Combination Backhoe; Front End Loader Machine (1 cu yd or over Backhoe bucket or with attachments); Concrete Breaker (truck mounted); Concrete Conveyor; Concrete Paver over 27E cu ft*; Concrete Placer*; Concrete Tube Float; Cranes, all attachments*; Cranes, Hammerhead, Linden, Peco and machines of a like nature*; Creter Crane; Crusher, stone; All Derricks; Derrick Boats; Derricks, traveling*; Dowell Machine with Air Compressor ($1.00 above Class 1); Dredges*; Field Mechanic Welder; Formless Curb and Gutter Machine*; Gradall and machines of a like nature*; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver mounted*; Hoists, one, two, and three Drum; Hydraulic Backhoes*; Backhoes with Shear attachments*; Mucking Machine; Pile Drivers and Skid Rig*; Pre-Stress Machine; Pump Cretes Dual Ram (requires frequent lubrication and water)*; Rock Drill- Crawler or Skid Rig*; Rock Drill truck mounted*; Rock/ Track Tamper; Roto Mill Grinder, (36"" and over)*; Slip-Form Paver*; Soil Test Drill Rig, truck mounted*; Straddle Buggies; Hydraulic Telescoping Form (tunnel); Tractor Drawn Belt Loader*; Tractor Drawn Belt Loader with attached Pusher (two engineers); Tractor with boom; Tractaire with attachment; Traffic Barrier Transfer Machine*; Trenching Machine; Truck Mounted Concrete Pump with boom*; Underground Boring and/or Mining Machines 5 ft in diameter and over tunnel, etc.*; Wheel Excavator* & Widener (Apsco); Raised or Blind Hoe Drill, Tunnel & Shaft*

GROUP 2: Batch Plant*; Bituminous Mixer; Boiler and Throttle Valve; Bulldozer; Car Loader Trailing Conveyors; Combination Backkhoe Front End Loader Machine, (less than 1 cu yd Backhoe Bucket 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; Greaser Engineer; Highlift Shovels or Front End Loader; Hoist- Sewer Dragging Machine; Hydraulic Boom Trucks, all attachments; Hydro-Blaster (requires two operators); Laser Screed*; Locomotives, Dinky; Off-Road Hauling Units (including articulating); Pump Cretes; Squeeze Cretes-Screw Type pumps, Gypsum Bulker and Pump; Roller Asphalt; Rotary Snow Plows; Rototiller, Seaman, self-Propelled; Scoops-Tractor Drawn; Self- propelled Compactor; Spreader-Chip-Stone; Scraper; Scraper-Prime Mover in Tandem regardless of size (add $1.00 to Group 2 hourly rate for each hour and for each machine attached thereto add $1.00 to Group 2 hourly rate for each hour); Tank Car Heater; Tractors, Push, pulling Sheeps Foot, Disc, or Compactor, etc; Tug Boats

GROUP 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; Fireman on Boilers; Forklift Trucks; Grouting Machines; 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

GROUP 4: Air compressor - Small 250 and under (1 to 5 not to exceed a total of 300 ft); Air Compressor - Large over 250; Combination - Small Equipment Operator; Directional Boring Machine; Generators - Small 50 kw and under; Generators - Large , over 50 kw; Heaters, Mechanical; Hydraulic power unit (Pile Driving, Extracting or Drilling); Light Plants (1 to 5); Pumps, over 3"" (1 to 3, not to exceed a total of 300 ft); Pumps, Well Points; Tractaire; Welding Machines (2 through 5); Winches, 4 small electric drill winches;

GROUP 5: Bobcats (All); Brick Forklifts; Oilers; Directional Boring

*Requires Oiler

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IRON0001-014 06/01/2021

DU PAGE (Eastern 1/4), LAKE, AND MCHENRY (Hebron, Woodstock, and East thereof) COUNTIES

| | Rates | Fringes |
|---|---|---|
| IRONWORKER | | |
| Sheeter | $ 54.76 | 41.45 |
| Structural and Reinforcing | $ 54.51 | 41.45 |

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IRON0063-003 06/01/2021

LAKE, DUPAGE (Eastern 1/4) and McHENRY (HEBRON, WOODSTOCK & EAST THEREOF) COUNTIES

| | Rates | Fringes |
|---|---|---|
| IRONWORKER, ORNAMENTAL | $ 52.13 | 39.47 |

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IRON0393-003 06/01/2021

DEKALB (SOUTHEASTERN 2/3 including Sycamore and Dekalb), DUPAGE (REMAINDER), KANE, KENDALL (NORTHERN PART), and MCHENRY (SOUTHEAST 1/4) COUNTIES

| | Rates | Fringes |
|---|---|---|
| IRONWORKER | $ 48.83 | 39.84 |

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IRON0444-006 06/01/2021

KENDALL (Southern Part) and WILL COUNTIES

| | Rates | Fringes |
|---|---|---|
| IRONWORKER | $ 46.00 | 41.72 |

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IRON0498-003 06/01/2021

BOONE, DEKALB (EXCEPT Southeast), and MCHENRY (Northwest) COUNTIES

| | Rates | Fringes |
|---|---|---|
| IRONWORKER | $ 41.37 | 44.41 |

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LABO0002-004 06/01/2018

DUPAGE COUNTY

| | Rates | Fringes |
|---|---|---|
| LABORER (SEWER CONSTRUCTION) | | |
| GROUP 1 | $ 42.72 | 28.19 |
| GROUP 2 | $ 42.85 | 28.19 |
| GROUP 3 | $ 42.95 | 28.19 |
| GROUP 4 | $ 43.07 | 28.19 |
| GROUP 5 | $ 42.72 | 28.19 |

LABORER CLASSIFICATIONS

GROUP 1: Signalmen Top Laborers, and all other Laborers not Mentioned.

GROUP 2: Concrete Laborers; Steel Setters.

GROUP 3: Cement Carriers; Cement Mixers; Concrete Repairmen; Mortar Men; Scaffold Men; and Second Bottom Men.

GROUP 4: Bottom Men; Bracers-Bracing; Bricklayer's Tender; Catch Basin Digger; Drainlayer; Dynamiter; Form Men; Jackhammermen; Powerpac; Pipelayers; Rodders; Welders & Burners; Well Point System Men.

GROUP 5: Asbestos Abatement Laborers, Toxic and Hazardous Waste Removal Laborers & Dosimeter use (any device)

Monitoring Nuclear Exposure.

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LABO0002-009 06/01/2018

DU PAGE COUNTY

| | Rates | Fringes |
|---|---|---|
| LABORER (Compressed Air) | | |
| 0 - 15 lbs | $ 43.72 | 28.19 |
| 16 - 20 lbs | $ 44.22 | 28.19 |
| 21 - 26 lbs | $ 44.72 | 28.19 |
| 27 - 33 lbs | $ 45.72 | 28.19 |
| 34 lbs and over | $ 46.72 | 28.19 |
| LABORER (Tunnel and Sewer) | | |
| GROUP 1 | $ 42.72 | 28.19 |
| GROUP 2 | $ 42.85 | 28.19 |
| GROUP 3 | $ 42.95 | 28.19 |
| GROUP 4 | $ 43.07 | 28.19 |
| GROUP 5 | $ 42.72 | 28.19 |

LABORER CLASSIFICATIONS (TUNNEL)

GROUP 1: Cage tenders; Dumpmen; Flagmen; Signalmen; Top laborers

GROUP 2: Air hoist operator; Key board operator; concrete laborer; Grout; Lock tenders (Free Air Side); Steel setters; Tuggers; Switchmen; Car pusher

GROUP 3: Concrete repairmen; Lock tenders (pressure side); Mortar men; Muckers; Grout machine operators; Track layers

GROUP 4: Air trac drill operator; Miner; Bricklayer tenders; Concrete blower operator; Drillers; Dynamiters; Erector operator; Form men; Jackhammermen; Powerpac; Mining machine operators; Mucking machine operator; Laser beam operator; Liner plate and ring setters; Shield drivers; Power knife operator; Welder- burners; Pipe jacking machine operator; skinners; Maintenance technician

GROUP 5: Asbestos abatement laborer; Toxic and hazardous waste removal laborer; Dosimeter (any device) monitoring nuclear exposure

LABORER CLASSIFICATIONS (SEWER)

GROUP 1: Signalmen; Top laborers and All other laborers

GROUP 2: Concrete laborers and Steel setters

GROUP 3: Cement carriers; Cement mixers; Concrete repairmen; Mortar men; Scaffold men; Second Bottom men

GROUP 4: Air trac drill operator; Bottom men; Bracers-bracing; Bricklayer tenders; Catch basin diggers; Drainlayers; dynamiters; Form men; Jackhammermen; Powerpac; Pipelayers; Rodders; Welder-burners; Well point systems men

GROUP 5: Asbestos abatement laborer, Toxic and hazardous waste removal laborer; Dosimeter (any device) monitoring nuclear exposure

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LABO0032-007 05/01/2021

DE KALB COUNTY

| | Rates | Fringes |
|---|---|---|
| LABORER | | |
| General Laborer | $ 38.75 | 34.91 |
| Skilled Laborer | $ 41.90 | 34.91 |

LABORER CLASSIFICATIONS

General Laborer: Carpenter Tender, Tool Cribman, Fireman or Salamander Tender, Flagman, Gravel Box Man, Bumpman & Spotter, Form Handler, Material Handler, Fencing Laborer, Cleaning Lumber, Pit Man, Material Checker, Landscaper, Unloading Explosives, Laying of Sod, Planting of Trees, Asphalt Workers With Machine & Layers, Asphalt Plant Laborer, Wrecking, Fire-proofing, Driving Stakes, Stringlines for All Machinery, Window Cleaning, Demolition Worker, Explosive Handling, Trimming & Removal of Trees, Multi-Plate Pipe, Pilot Cars for Traffic Control, Power

Rigging

Skilled Laborer: Asbestos Abatement Worker; Hazardous Waste Worker Handling any Materials with any Foreign Matter Harmful to Skin or Clothing, Track Labor, Cement Handler, Chloride Handler, Unloading & Laborers with Steel Workers & Re-bars, Wet Concrete Workers, Tunnel Tenders in Free Air, Batch Dumper, Mason Tender, Kettle & Tar Man, Tank Cleaner, Plastic Installer, Scaffold Worker, Motorized Buggies or Motorized Unit Used For Wet Concrete or Handling of Building Materials, Laborers With De-Watering Systems, Sewer Workers Plus Depth, Vibrator Operator; Cement Silica, Clay, Fly Ash, Lime & Plasters Handlers (Bulk or Bag); Cofferdam Worker Plus Depth, Concrete Paving, Placing, Cutting & Tying of Reinforcing, Deck Hand, Dredge Hand and Shore Laborer, Bankman on Floating Plant, Grade Checker, Power Tools, Front End Man on Chip Spreader, Caisson Worker Plus Depth, Gunnite Nozzleman, Leadman on Sewer Work, Welder, Cutter, Burner & Torchman, Chain Saw Operator, Jackhammer & Drill Operator, Layout Man and/or Tile Layer, Steel Form Setter - Street & Highway, Air Tamping Hammerman, Signal Man On Crane, Concrete Saw Operator, Screenman on Asphalt Paver, Tending Masons with Hot Material or Where Foreign Materials are used, Mortar Mixer Operator, Multiple Concrete Duct - Leadman, Luteman, Asphalt Raker Curb Asphalt Machine Operator, Ready Mix Scaleman Permanent Portable or Temporart Plant, Laborer Handling Masterplate or Similar Materials, Laser Beam Operator, Concrete Burning Machine Operator, Coring Machine Operator, Plaster Tender, Underpinning & Shoring of Buildings, Pump Man, Manhole & Catch Basin, Dirt & Stone Tamper, Hoseman on Concrete Pump.

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LABO0075-002 06/01/2017

WILL COUNTY

| | Rates | Fringes |
|---|---|---|
| LABORER | | |
| GROUP 1 | $ 41.20 | 27.47 |
| GROUP 2 | $ 41.55 | 27.47 |
| GROUP 3 | $ 41.20 | 27.47 |
| GROUP 4 | $ 41.55 | 27.47 |
| GROUP 5 | $ 41.40 | 27.47 |
| GROUP 6 | $ 41.55 | 27.47 |
| GROUP 7 | $ 41.40 | 27.47 |

LABORER CLASSIFICATIONS

GROUP 1 - Mortar mixers, handling asphalt shingles; Scaffolds; Sewer and trench work (ground level down to 8 feet); Catch basin and manhole diggers, mesh handling on road work; Cement and mineral filler handler; Concrete puddlers; Batch dumpers (cement & asphalt); Vibrator operators; Sand and stone wheelers to mixer Handlers); Concrete wheelers; Airtamping hammermen; Concrete & paving breakers; Rock drillers/Jackhammermen; Chipping hammermen 1-Bag mixer; Asphalt laborer; Chain and power saws; Pit men; Fencing laborers; Mason tenders (mortar and brick wheeler); Kettlemen & tarmen, tank cleaners; Scaffold and staging laborers; Pot Firemen (tarmen); Heaters tender for any purpose; Water pumps (portable water pumps shall be tended by laborers if the employer determines tending is required); Rip rap; Handling of slab steel road forms in any manner, except road form setting, setting center strips, Contraction and expansion joints (road work); Unloading and handling of lumber, brick, transite materials, cast iron water pipe, reinforced concrete rods, sewer and drain tile, railroad tiles and all other creosoted materials; paving blocks and concrete forms; Handling of insulation of any type; all work involving the unloading of materials, fixtures, or furnishing, whether crated or uncrated; all mortar and composition mixers of sewer work; track laborers; Chimney and silo laborers working at a height of 1 to 48 feet; All laborers working on swinging suspended, or any type or make of scaffolding 1 to 48 feet; All laborers working inside a sphere or any type or make of tank; Working inside a sphere or any type or make of tank from bottom to a height of 48 feet; Form strippers (any type); Mechanical or motorized buggies, for concrete or masons employers; Use of skid steer loads or any other machinery which replaces the wheelbarrow or buggy; Handling multiple concrete duct or any other type of pipe used in public utility work unless otherwise specified herein; Snapping of wall ties and removal of rods; drilling

of anchor bolt holes; Concrete or asphalt clipper type saws and self-propelled saws; Shoulder and grade laborers; All hydraulic electric and air or any other type of tools; Grouting and caulking; Cleaning lumber, Nail pulling, Deck hand; Dredgehand; Shore laborer; Bankmen on Floating Plant; Tool and material checkers; Signalmen and Flagmen on all construction work; Cleaning of debris; Removal of trees; Concrete curing, temporary concrete protection regardless of manner or materials used; Laborers on Apsco; Janitorial; Wrecking and demolition laborers

GROUP 2 - Sewer and drain pipe layers and multiple concrete duct or any other type of pipe used, on public utility work (ground level to 8 feet); Pumpcrete pipe handlers

GROUP 3 - Asphalt rakers; Hod carriers; Plasterer laborers; Gunnite laborers, Slab for setters on roads, highways, streets, airport runaways, and radii (any type of form) stringline men for all aforementioned work; Wagon and tower drillers on land and floating plant used on dredging; Asphalt gunners and plug men (undercoating on road work); Mortar pump laborers; Plaster pump laborers

GROUP 4 - Tunnel miners, and all laborers inside tunnel; Air blow pipemen; Torchmen (burners); Mortaring men on sewer and drain pipe (the applying of mortar and composition mixes); All bottom men on sewer work-all sewer and drain pipelayers-multiple concrete duct or any other type of pipe used on public utility work-8 feet or more below ground level, and all other sewer and trench laborers 8 feet or more below ground level regardless of excavation area; All labor work inside cofferdam; Use of a 10 foot or more drill steel for hand held drills; Caisson laborers ground level down 15 feet; All air tools 8 feet or more below ground level; All laborers working on swinging-suspended or any type or make of scaffolds, 48 feet to 100 feet; All chimney and silo laborers working at a height of 48 to 100 feet; All tamping hammers over 150 lbs.; All laborers working inside of a sphere or any type or make of tank at a height of 48 feet to 100 feet; all hydraulic, electric and air tools or any other type 8 feet or more below ground level; Vibrators-any type-8 feet or more below ground level

GROUP 5 - Gunnite nozzle men; Caisson laborers and all tamping hammers from 150 lbs and over; from 15 feet below ground level down to 50 feet; and all laborers working inside of a sphere or any type of tank for every additional 50 feet or part thereof above 100 feet in height

GROUP 6 - All underground cavern laborers; Caisson laborers 50 feet or more below ground level; Laborers working under radio active conditions (suiting up); Blasting men (Powdermen)
GROUP 7 - Dosimeter (any device) used for monitoring nuclear exposure; Asbestos abatement worker; Toxic and hazardous waste removal laborer; and chimney and silo laborers for every additional 50 feet or any part thereof above 100 feet high

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LABO0149-002 06/01/2018

BOONE, KANE, KENDALL, AND McHENRY COUNTIES

| | Rates | Fringes |
|---|---|---|
| LABORER | | |
| GROUP 1 | $ 42.72 | 28.19 |
| GROUP 2 | $ 43.00 | 28.19 |
| GROUP 3 | $ 43.00 | 28.19 |
| GROUP 4 | $ 43.00 | 28.19 |
| GROUP 5 | $ 42.95 | 28.19 |
| GROUP 6 | $ 43.07 | 28.19 |
| GROUP 7 | $ 43.07 | 28.19 |
| GROUP 8 | $ 42.72 | 28.19 |
| GROUP 9 | $ 43.72 | 28.19 |

LABORER CLASSIFICATIONS

GROUP 1: Common laborer, Asphalt laborer, Asphalt plant laborer, Striping laborer, Clipper type concrete saw, Self-propelled saws

GROUP 2: Air tampers & Vibrators

GROUP 3: Mortar & Concrete mixers

GROUP 4: Stringline & form setter; Torchman (demolition), Sheeting & Cribbing, Black top rakers & lutemen, Machine screwmen

GROUP 5: Chain saw man, Jackhammer man, Drillman, Concrete breaders & air spade,

GROUP 6: Tunnel laborers, Tile layers & bottom men

GROUP 7: Caisson diggers, Dynamiters

GROUP 8: Flagman

GROUP 9: Asbestos apatement laborers, Toxic & hazardous waste removal laborers & Dosimeter (any device) monitoring nuclear exposure

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LABO0152-003 06/01/2017

LAKE COUNTY

| | Rates | Fringes |
|---|---|---|
| LABORER | | |
| GROUP 1 | $ 41.20 | 27.47 |
| GROUP 2 | $ 41.28 | 27.47 |
| GROUP 3 | $ 41.20 | 27.47 |
| GROUP 4 | $ 41.43 | 27.47 |
| GROUP 5 | $ 41.40 | 27.47 |
| GROUP 6 | $ 41.40 | 27.47 |

LABORER CLASSIFICATIONS

GROUP 1: General laborers; Asphalt

GROUP 2: Cement gun laborers

GROUP 3: Asphalt Tampers and Smoothers

GROUP 4: Rakers and Lutemen; Machine screwman; Kettlemen; Mixermen, Drum-Men; Jackhammermen (Asphalt); Mite Box Spreaders; Laborers on birch overman and similar spreader equipment; Laborers on apsco; Laborers on Air Compressors; Paving Form Setters; Jackhammerman (Concrete); Power Drive Concrete Saws

GROUP 5: Cement Gun Nozzle (Gunite)

GROUP 6: Asbestos abatement laborers; Toxic and hazardous waste removal laborers; Dosimeter (any device monitoring nuclear exposure)

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PAIN0014-003 06/01/2020

LAKE and WILL COUNTIES

| | Rates | Fringes |
|---|---|---|
| PAINTER: Brush Only | $ 48.30 | 28.72 |

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PAIN0030-001 06/01/2021

DE KALB, DU PAGE, KANE, KENDALL AND MCHENRY COUNTIES

| | Rates | Fringes |
|---|---|---|
| PAINTER | | |
| Brush, Drywall Taper/Finisher, Sandblaster, and Spray | $ 49.30 | 23.33 |

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PAIN0030-004 06/01/2021

BOONE, JO DAVIESS, LEE, OGLE, STEPHENSON AND WINNEBAGO COUNTIES

| | Rates | Fringes |
|---|---|---|
| PAINTER | | |
| Brush, Roller, Spray, Sandblasting, Paperhanger, Drywall Finishing, Taper, and Spray Structural Steel | $ 42.15 | 25.16 |

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PLAS0011-002 06/01/2020

WILL COUNTY

| | Rates | Fringes |
|---|---|---|
| CEMENT MASON/CONCRETE FINISHER | $ 44.19 | 39.41 |

PLAS0011-008 06/01/2021

DE KALB, KANE, KENDALL, AND McHENRY COUNTIES

| | Rates | Fringes |
|---|---|---|
| CEMENT MASON/CONCRETE FINISHER | $ 49.20 | 36.86 |

PLAS0011-013 06/01/2021

LAKE COUNTY

| | Rates | Fringes |
|---|---|---|
| CEMENT MASON/CONCRETE FINISHER | $ 47.70 | 38.38 |

PLAS0011-015 06/01/2021

BOONE COUNTY

| | Rates | Fringes |
|---|---|---|
| CEMENT MASON/CONCRETE FINISHER | $ 39.00 | 33.12 |
| PLASTERER | $ 36.00 | 34.26 |

PLAS0803-001 08/01/2010

DUPAGE COUNTY

| | Rates | Fringes |
|---|---|---|
| CEMENT MASON/CONCRETE FINISHER | $ 38.00 | 24.03 |

* TEAM0179-002 06/01/2017

KENDALL and WILL COUNTIES

| | Rates | Fringes |
|---|---|---|
| TRUCK DRIVER | | |
| 2 or 3 Axle Trucks | $ 37.68 | 0.15+a |
| 4 Axle Trucks | $ 37.83 | 0.15+a |
| 5 Axle Trucks | $ 38.03 | 0.15+a |
| 6 Axle Trucks | $ 38.23 | 0.15+a |

FOOTNOTES:
a. $733.20 per week.
b. Lowboy rate based on number of axles

An additional $.20 per axle shall be paid for all vehicles with more than six (6) axles.

CLASSIFICATIONS:

Group 1 - Frame Truck when used for transportation purposes; Air Compressor and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Articulated Dumps; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry Alls; Forl Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors, two-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Pothole Repair Trucks; Power Mower Tractors; Quick Change Barrier; Self-Propelled Chip Spreader; Shipping and Receiving Clerks and Checkers; Skipman; Slurry Trucks, two-man operation; Slurry Trucks, Conveyor Operated - 2 or 3 man operation; Teamsters; Unskilled Dumpmen; Warehousemen and Dockmen; Truck Drivers hauling warning lights, barricades, and portable toilets on the job site

Group 2 - Dispatcher; Dump Crets and Adgetators 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; Winch Trucks, 2 Axles

Group 3 - Dump Crets and Adgetators, 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers 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, one-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long;
Slurry Trucks, one-man operation; Winch Trucks, 3 axles or more; Mechanic - *Truck Welder and *Truck Painter*These classifications shall only apply in areas where and when it has been a past area practice; Asphalt Plant Operators in areas where it has been past practice

Group 4 - Dual-purpose vehicels, such as mounted crane tucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front

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* TEAM0301-001 06/01/2019

LAKE AND MCHENRY COUNTIES

| | Rates | Fringes |
|---|---|---|
| TRUCK DRIVER | | |
| 2-3 AXLES | $ 39.34 | 10.75+a |
| 4 AXLES | $ 39.49 | 10.75+a |
| 5 AXLES | $ 39.69 | 10.75+a |
| 6 AXLES | $ 39.89 | 10.75+a |

FOOTNOTES:
a. 380.00 per week pension.
b. Lowboy rate based on number of axles

An additional $.20 per axle shall be paid for all vehicles with more than six (6) axles.

Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

900 straight time hours or more in 1 calendar year for the same employer shall receive 1 week paid vacation; 3 years - 2 weeks paid vacation; 10 years - 3 weeks paid vacation; 20 years - 4 weeks paid vacation.

CLASSIFICATIONS:

Group 1 - Frame Truck when used for transportation purposes; Air Compressor and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Articulated Dumps; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry Alls; Forl Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors, two-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Pothole Repair Trucks; Power Mower Tractors; Quick Change Barrier; Self-Propelled Chip Spreader; Shipping and Receiving Clerks and Checkers; Skipman; Slurry Trucks, two-man operation; Slurry Trucks, Conveyor Operated - 2 or 3 man operation; Teamsters; Unskilled Dumpmen; Warehousemen and Dockmen; Truck Drivers hauling warning lights, barricades, and portable toilets on the job site

Group 2 - Dispatcher; Dump Crets and Adgetators 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; Winch Trucks, 2 Axles

Group 3 - Dump Crets and Adgetators, 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers 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, one-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long;
Slurry Trucks, one-man operation; Winch Trucks, 3 axles or more; Mechanic - *Truck Welder and *Truck Painter*These classifications shall only apply in areas where and when it has been a past area practice; Asphalt Plant Operators in areas where it has been past practice

Group 4 - Dual-purpose vehicels, such as mounted crane tucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front

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* TEAM0325-004 06/01/2020

BOONE and WINNEBAGO COUNTIES

| | Rates | Fringes |
|---|---|---|
| TRUCK DRIVER | | |
| 2 - 3 Axles | $ 39.87 | 22.60 |
| 4 Axles | $ 40.02 | 22.60 |
| 5 Axles | $ 40.22 | 22.60 |
| 6 Axles | $ 40.33 | 22.60 |

FOOTNOTE: An additional $.20 per axle shall be paid for all vehicles with more than six (6) axles.

CLASSIFICATIONS:

Group 1 - Frame Truck when used for transportation purposes; Air Compressor and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Forl Lifts and Hoisters; Helpers;
Mechanics Helpers and Greasers; Oil Distributors, two-man operation; Pavement Breakers
Pole Trailer, up to 40 feet; Power Mower Tractors; Skipman; Slurry Trucks, two-man operation; Teamsters; Truck Drivers hauling warning lights, barricades, and portable toilets on the job site

Group 2 - Dump Crets and Adgetators 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; Winch Trucks, 2 Axles

Group 3 - Dump Crets and Adgetators, 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers 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, one-man operation
Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long, additional $0.50 per hour; Slurry Trucks, one-man operation; Winch Trucks, 3 axles or more
*Mechanic*Truck Welder and Truck Painter; *Winter Rate: Between Dec. 15 and Feb. 28 the mechanic and welder rate shall be $2.00 less than the scheduled scale. Truck Painter and Truck Welder classifications shall only apply in areas where and when it has been a past area practice;
Dual-purpose vehicels, such as mounted crane tucks with hoist and accessories

Group 4 - Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front

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* TEAM0330-002 06/01/2019

DEKALB COUNTY

| | Rates | Fringes |
|---|---|---|
| TRUCK DRIVER | | |
| 2-3 AXLES | $ 38.23 | 0.25+a |
| 4 AXLES | $ 38.38 | 0.25+a |
| 5 AXLES | $ 38.58 | 0.25+a |
| 6 AXLES | $ 38.78 | 0.25+a |

FOOTNOTE: a. $868.50 per week

An additional $.20 per axle shall be paid for all vehicles with more than six (6) axles.

Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

900 straight time hours or more in 1 calendar year for the same employer shall receive 1 week paid vacation; 3 years - 2 weeks paid vacation; 10 years - 3 weeks paid vacation; 20 years - 4 weeks paid vacation.

CLASSIFICATIONS:

Group 1 - Frame Truck when used for transportation purposes; Air Compressor and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Articulated Dumps; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry Alls; Forl Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors, two-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Pothole Repair Trucks; Power Mower Tractors; Quick Change Barrier; Self-Propelled Chip Spreader; Shipping and Receiving Clerks and Checkers; Skipman; Slurry Trucks, two-man operation; Slurry Trucks, Conveyor Operated - 2 or 3 man operation; Teamsters; Unskilled Dumpmen; Warehousemen and Dockmen; Truck Drivers hauling warning lights, barricades, and portable toilets on the job site

Group 2 - Dispatcher; Dump Crets and Adgetators 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; Winch Trucks, 2 Axles

Group 3 - Dump Crets and Adgetators, 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers 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, one-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long;
Slurry Trucks, one-man operation; Winch Trucks, 3 axles or more; Mechanic - *Truck Welder and *Truck Painter*These classifications shall only apply in areas where and when it has been a past area practice; Asphalt Plant Operators in areas where it has been past practice

Group 4 - Dual-purpose vehicels, such as mounted crane tucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front

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* TEAM0673-003 06/01/2019

DU PAGE and KANE COUNTIES

| | Rates | Fringes |
|---|---|---|
| TRUCK DRIVER | | |
| 2-3 AXLES | $ 38.47 | 0.25+a |
| 4 AXLES | $ 38.62 | 0.25+a |
| 5 AXLES | $ 38.82 | 0.25+a |
| 6 AXLES | $ 39.02 | 0.25+a |

FOOTNOTE: a. $861.10 per week.

An additional $.20 per axle shall be paid for all vehicles with more than six (6) axles.

Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

900 straight time hours or more in 1 calendar year for the same employer shall receive 1 week paid vacation; 3 years - 2 weeks paid vacation; 10 years - 3 weeks paid vacation; 20 years - 4 weeks paid vacation.

CLASSIFICATIONS:

Group 1 - Frame Truck when used for transportation purposes; Air Compressor and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Articulated Dumps; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry Alls; Forl Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors, two-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Pothole Repair Trucks; Power Mower Tractors; Quick Change Barrier; Self-Propelled Chip Spreader; Shipping and Receiving Clerks and Checkers; Skipman; Slurry Trucks, two-man operation; Slurry Trucks, Conveyor Operated - 2 or 3 man operation; Teamsters; Unskilled Dumpmen; Warehousemen and Dockmen; Truck Drivers hauling warning lights, barricades, and portable toilets on the job site

Group 2 - Dispatcher; Dump Crets and Adgetators 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; Winch Trucks, 2 Axles

Group 3 - Dump Crets and Adgetators, 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers 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, one-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long;
Slurry Trucks, one-man operation; Winch Trucks, 3 axles or more; Mechanic - *Truck Welder and *Truck Painter*These classifications shall only apply in areas where and when it has been a past area practice; Asphalt Plant Operators in areas where it has been past practice

Group 4 - Dual-purpose vehicels, such as mounted crane tucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing

this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an

interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISIO"

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following unit prices or lump sum:

## BID SCHEDULE

NOTE: BIDS shall include sales tax and all other applicable taxes and fees.

| NO. | ITEM | UNIT | AMOUNT | UNIT PRICE | TOTAL PRICE |
|---|---|---|---|---|---|
| 1 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 153 | | |
| 2 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | UNIT | 522 | | |
| 3 | TREE TRUNK PROTECTION | EACH | 66 | | |
| 4 | TREE ROOT PRUNING | EACH | 33 | | |
| 5 | EARTH EXCAVATION | CU YD | 1070 | | |
| 6 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 598 | | |
| 7 | POROUS GRANULAR EMBANKMENT | CU YD | 426 | | |
| 8 | TRENCH BACKFILL | CU YD | 5531 | | |
| 9 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD | 6378 | | |
| 10 | EROSION CONTROL BLANKET | SQ YD | 1550 | | |
| 11 | SUPPLEMENTAL WATERING | UNIT | 445 | | |
| 12 | PERIMETER EROSION BARRIER | FOOT | 630 | | |
| 13 | INLET AND PIPE PROTECTION | EACH | 1 | | |
| 14 | INLET FILTERS | EACH | 26 | | |
| 15 | AGGREGATE BASE COURSE, TYPE B 6" | SQ YD | 6378 | | |
| 16 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 2313 | | |
| 17 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 | TON | 1572 | | |
| 18 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 | TON | 996 | | |
| 19 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH | SQ YD | 740 | | |
| 20 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH | SQ YD | 35 | | |
| 21 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SQ FT | 15410 | | |
| 22 | DETECTABLE WARNINGS | SQ FT | 250 | | |

| | | | | | |
|---|---|---|---|---|---|
| 23 | PAVEMENT REMOVAL | SQ YD | 6884 | | |
| 24 | HOT-MIX ASPHALT SURFACE REMOVAL, 2" | SQ YD | 1705 | | |
| 25 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 1504 | | |
| 26 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 6219 | | |
| 27 | SIDEWALK REMOVAL | SQ FT | 15890 | | |
| 28 | PIPE CULVERT REMOVAL | FOOT | 6 | | |
| 29 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21" | EACH | 1 | | |
| 30 | CONCRETE COLLAR | CU YD | 18 | | |
| 31 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12" | FOOT | 144 | | |
| 32 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 21" | FOOT | 26 | | |
| 33 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24" | FOOT | 21 | | |
| 34 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 54" | FOOT | 1460 | | |
| 35 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12" | FOOT | 75 | | |
| 36 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24" | FOOT | 521 | | |
| 37 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 42" | FOOT | 10 | | |
| 38 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 54" | FOOT | 337 | | |
| 39 | DUCTILE IRON WATER MAIN 6" | FOOT | 286 | | |
| 40 | DUCTILE IRON WATER MAIN 8" | FOOT | 625 | | |
| 41 | WATER VALVES 6" | EACH | 7 | | |
| 42 | WATER VALVES 8" | EACH | 3 | | |
| 43 | FIRE HYDRANTS TO BE REMOVED | EACH | 2 | | |
| 44 | FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX | EACH | 11 | | |
| 45 | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE | EACH | 10 | | |
| 46 | CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE | EACH | 1 | | |
| 47 | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 3 | | |

| | | | | | |
|---|---|---|---|---|---|
| 48 | MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 1 | | |
| 49 | INLETS, TYPE A, TYPE 11 FRAME AND GRATE | EACH | 5 | | |
| 50 | VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 9 | | |
| 51 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | FOOT | 6219 | | |
| 52 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 228 | | |
| 53 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 124 | | |
| 54 | TEMPORARY PATCHING | SQ YD | 2750 | | |
| 55 | EXPLORATION TRENCH, SPECIAL | FOOT | 200 | | |
| 56 | TEMPORARY ACCESS (PRIVATE ENTRANCE) | EACH | 72 | | |
| 57 | TEMPORARY ACCESS (ROAD) | EACH | 8 | | |
| 58 | VALVE BOX | EACH | 1 | | |
| 59 | HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4" | SQ YD | 807 | | |
| 60 | CONSTRUCTION LAYOUT | L SUM | 1 | | |
| 61 | DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED | EACH | 16 | | |
| 62 | DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED | EACH | 1 | | |
| 63 | STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH | FOOT | 80 | | |
| 64 | STRUCTURES TO BE REMOVED | EACH | 5 | | |
| 65 | BRICK DRIVEWAY REMOVAL AND REPLACEMENT | SQ YD | 18 | | |
| 66 | CLASS D PATCHES, 6" | SQ YD | 422 | | |
| 67 | COMBINED MANHOLE LINING | V FOOT | 64 | | |
| 68 | CONFLICT STRUCTURE (CS #1) | LSUM | 1 | | |
| 69 | CONFLICT STRUCTURE (CS #2) | LSUM | 1 | | |
| 70 | CONTINGENCY ALLOWANCE | DOLLARS | 50000 | $1.00 | $50,000.00 |
| 71 | DROP SANITARY MANHOLES, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 1 | | |
| 72 | DUCTILE IRON WATER MAIN IN STEEL CASING 6" | FOOT | 110 | | |
| 73 | HDPE CASING PIPE FOR WATER SERVICE, 5" | FOOT | 525 | | |

| | | | | | |
|---|---|---|---|---|---|
| 74 | IRRIGATION REPAIR | UNIT | 25000 | $1.00 | $25,000.00 |
| 75 | JUNCTION CHAMBER (STR #33) | LSUM | 1 | | |
| 76 | LANDSCAPE RESTORATION - SEEDING | SQ YD | 1550 | | |
| 77 | MODIFY EXISTING COMBINED SEWER MANHOLE | EACH | 1 | | |
| 78 | PARKWAY RESTORATION - SODDING, SALT TOLERANT | SQ YD | 8324 | | |
| 79 | POST-CONSTRUCTION SEWER TELEVISING | LSUM | 1 | | |
| 80 | PRE-CONSTRUCTION VIDEO RECORDING | LSUM | 1 | | |
| 81 | RCP PIPE FITTING (NO RISER), 54" | EACH | 2 | | |
| 82 | RCP PIPE FITTING (WITH RISER), 43" X 68" ELLIPTICAL | EACH | 2 | | |
| 83 | RCP PIPE FITTING (WITH RISER), 54" | EACH | 12 | | |
| 84 | SANITARY MANHOLE, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 12 | | |
| 85 | SANITARY SERVICE COMBINATION CLEANOUT CHECK VALVE | EACH | 80 | | |
| 86 | SANITARY SERVICE CONNECTION | EACH | 66 | | |
| 87 | SANITARY SERVICE REPLACEMENT | FOOT | 1869 | | |
| 88 | SANITARY SERVICE REPLACEMENT (C900) | FOOT | 528 | | |
| 89 | SANITARY SEWER, PVC (C900), 10" | FOOT | 57 | | |
| 90 | SANITARY SEWER, PVC (C900), 12" | FOOT | 20 | | |
| 91 | SANITARY SEWER, PVC (C900), 8" | FOOT | 20 | | |
| 92 | SANITARY SEWER, PVC, 8" | FOOT | 1236 | | |
| 93 | SANITARY SEWER, RCP, 42" | FOOT | 10 | | |
| 94 | SANITARY SEWER, RCP, 48" | FOOT | 30 | | |
| 95 | SHUTDOWN WATER MAIN CONNECTION | EACH | 20 | | |
| 96 | SITE DEWATERING | LSUM | 1 | | |
| 97 | STEEL CASING PIPE 16" | FOOT | 110 | | |
| 98 | STORM SEWERS, CLASS B (PVC), 6" | FOOT | 200 | | |
| 99 | STORM SEWERS, RUBBER GASKET, CLASS A, 43" X 68" ELLIPTICAL | FOOT | 46 | | |
| 100 | TRAFFIC CONTROL AND PROTECTION, SPECIAL | LSUM | 1 | | |

| | | | | | |
|---|---|---|---|---|---|
| 101 | TREE PRUNING | EACH | 33 | | |
| 102 | TREES | EACH | 21 | | |
| 103 | WATER SERVICE (LEAD) - ASBESTOS ABATEMENT | EACH | 1 | | |
| 104 | WATER SERVICE (LEAD) - INTERIOR RESTORATION | EACH | 12 | | |
| 105 | WATER SERVICE CURB BOX | EACH | 73 | | |
| 106 | WATER SERVICE LINE (PRIVATE) - LEAD SERVICE REPLACEMENT | EACH | 12 | | |
| 107 | WATER SERVICE LINE, LONG SIDE, 1" (PUBLIC) - LEAD SERVICE REPLACEMENT | EACH | 6 | | |
| 108 | WATER SERVICE LINE, LONG SIDE, 1" (PUBLIC) - NON-LEAD SERVICE REPLACEMENT | EACH | 35 | | |
| 109 | WATER SERVICE LINE, SHORT SIDE, 1" (PUBLIC) - LEAD SERVICE REPLACEMENT | EACH | 6 | | |
| 110 | WATER SERVICE LINE, SHORT SIDE, 1" (PUBLIC) - NON-LEAD SERVICE REPLACEMENT | EACH | 38 | | |
| 111 | WATER USAGE CREDIT | TGAL | 100 | $8.85 | $885.00 |
| 112 | WATER USAGE DEDUCTION | TGAL | 100 | -$8.85 | -$885.00 |

TOTAL OF BID.....$_____

Bidder is currently certified as an MBE or WBE under EPA's DBE Program? Yes____ No ____



Respectfully submitted:

_____ _____
Signature Address

_____ _____
Title Date

_____
Telephone # E-mail Address

(SEAL - if BID is by a corporation)

Attest _____

## MAJOR ITEMS OF EQUIPMENT

It is hereby expressly agreed that the Contractor shall furnish and install in full compliance with the Plans and Contract Documents, the major items of equipment, as manufactured or supplied by the following listed manufacturers or suppliers:

| No. | Description | Manufacturer or Supplier |
|---|---|---|
| 1 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | |
| 2 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | |
| 3 | TREE TRUNK PROTECTION | |
| 4 | TREE ROOT PRUNING | |
| 5 | EARTH EXCAVATION | |
| 6 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | |
| 7 | POROUS GRANULAR EMBANKMENT | |
| 8 | TRENCH BACKFILL | |
| 9 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | |
| 10 | EROSION CONTROL BLANKET | |
| 11 | SUPPLEMENTAL WATERING | |
| 12 | PERIMETER EROSION BARRIER | |
| 13 | INLET AND PIPE PROTECTION | |
| 14 | INLET FILTERS | |
| 15 | AGGREGATE BASE COURSE, TYPE B 6" | |
| 16 | BITUMINOUS MATERIALS (TACK COAT) | |
| 17 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 | |
| 18 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 | |
| 19 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH | |
| 20 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH | |
| 21 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | |
| 22 | DETECTABLE WARNINGS | |

| | | |
|---|---|---|
| 23 | PAVEMENT REMOVAL | |
| 24 | HOT-MIX ASPHALT SURFACE REMOVAL, 2" | |
| 25 | DRIVEWAY PAVEMENT REMOVAL | |
| 26 | COMBINATION CURB AND GUTTER REMOVAL | |
| 27 | SIDEWALK REMOVAL | |
| 28 | PIPE CULVERT REMOVAL | |
| 29 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21" | |
| 30 | CONCRETE COLLAR | |
| 31 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12" | |
| 32 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 21" | |
| 33 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24" | |
| 34 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 54" | |
| 35 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12" | |
| 36 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24" | |
| 37 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 42" | |
| 38 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 54" | |
| 39 | DUCTILE IRON WATER MAIN 6" | |
| 40 | DUCTILE IRON WATER MAIN 8" | |
| 41 | WATER VALVES 6" | |
| 42 | WATER VALVES 8" | |
| 43 | FIRE HYDRANTS TO BE REMOVED | |
| 44 | FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX | |
| 45 | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE | |
| 46 | CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE | |
| 47 | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | |

| | | |
|---|---|---|
| 48 | MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID | |
| 49 | INLETS, TYPE A, TYPE 11 FRAME AND GRATE | |
| 50 | VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | |
| 51 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | |
| 52 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | |
| 53 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | |
| 54 | TEMPORARY PATCHING | |
| 55 | EXPLORATION TRENCH, SPECIAL | |
| 56 | TEMPORARY ACCESS (PRIVATE ENTRANCE) | |
| 57 | TEMPORARY ACCESS (ROAD) | |
| 58 | VALVE BOX | |
| 59 | HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4" | |
| 60 | CONSTRUCTION LAYOUT | |
| 61 | DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED | |
| 62 | DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED | |
| 63 | STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH | |
| 64 | STRUCTURES TO BE REMOVED | |
| 65 | BRICK DRIVEWAY REMOVAL AND REPLACEMENT | |
| 66 | CLASS D PATCHES, 6" | |
| 67 | COMBINED MANHOLE LINING | |
| 68 | CONFLICT STRUCTURE (CS #1) | |
| 69 | CONFLICT STRUCTURE (CS #2) | |
| 70 | CONTINGENCY ALLOWANCE | |
| 71 | DROP SANITARY MANHOLES, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID | |
| 72 | DUCTILE IRON WATER MAIN IN STEEL CASING 6" | |
| 73 | HDPE CASING PIPE FOR WATER SERVICE, 5" | |

| | | |
|---|---|---|
| 74 | IRRIGATION REPAIR | |
| 75 | JUNCTION CHAMBER (STR #33) | |
| 76 | LANDSCAPE RESTORATION - SEEDING | |
| 77 | MODIFY EXISTING COMBINED SEWER MANHOLE | |
| 78 | PARKWAY RESTORATION - SODDING, SALT TOLERANT | |
| 79 | POST-CONSTRUCTION SEWER TELEVISING | |
| 80 | PRE-CONSTRUCTION VIDEO RECORDING | |
| 81 | RCP PIPE FITTING (NO RISER), 54" | |
| 82 | RCP PIPE FITTING (WITH RISER), 43" X 68" ELLIPTICAL | |
| 83 | RCP PIPE FITTING (WITH RISER), 54" | |
| 84 | SANITARY MANHOLE, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | |
| 85 | SANITARY SERVICE COMBINATION CLEANOUT CHECK VALVE | |
| 86 | SANITARY SERVICE CONNECTION | |
| 87 | SANITARY SERVICE REPLACEMENT | |
| 88 | SANITARY SERVICE REPLACEMENT (C900) | |
| 89 | SANITARY SEWER, PVC (C900), 10" | |
| 90 | SANITARY SEWER, PVC (C900), 12" | |
| 91 | SANITARY SEWER, PVC (C900), 8" | |
| 92 | SANITARY SEWER, PVC, 8" | |
| 93 | SANITARY SEWER, RCP, 42" | |
| 94 | SANITARY SEWER, RCP, 48" | |
| 95 | SHUTDOWN WATER MAIN CONNECTION | |
| 96 | SITE DEWATERING | |
| 97 | STEEL CASING PIPE 16" | |
| 98 | STORM SEWERS, CLASS B (PVC), 6" | |
| 99 | STORM SEWERS, RUBBER GASKET, CLASS A, 43" X 68" ELLIPTICAL | |
| 100 | TRAFFIC CONTROL AND PROTECTION, SPECIAL | |

| | | |
|---|---|---|
| 101 | TREE PRUNING | |
| 102 | TREES | |
| 103 | WATER SERVICE (LEAD) - ASBESTOS ABATEMENT | |
| 104 | WATER SERVICE (LEAD) - INTERIOR RESTORATION | |
| 105 | WATER SERVICE CURB BOX | |
| 106 | WATER SERVICE LINE (PRIVATE) - LEAD SERVICE REPLACEMENT | |
| 107 | WATER SERVICE LINE, LONG SIDE, 1" (PUBLIC) - LEAD SERVICE REPLACEMENT | |
| 108 | WATER SERVICE LINE, LONG SIDE, 1" (PUBLIC) - NON-LEAD SERVICE REPLACEMENT | |
| 109 | WATER SERVICE LINE, SHORT SIDE, 1" (PUBLIC) - LEAD SERVICE REPLACEMENT | |
| 110 | WATER SERVICE LINE, SHORT SIDE, 1" (PUBLIC) - NON-LEAD SERVICE REPLACEMENT | |
| 111 | WATER USAGE CREDIT | |
| 112 | WATER USAGE DEDUCTION | |

## BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____ _____ as Principal, and _____as Surety, are hereby held and firmly bound unto VILLAGE OF VILLA PARK, ILLINOIS as OWNER in the penal sum of FIVE PERCENT (5%) OF TOTAL AMOUNT OF THE BID for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this _____ day of _____, 20 _____.

The Condition of the above obligation is such that whereas the Principal has submitted to VILLAGE OF VILLA PARK, ILLINOIS a certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for the WASHINGTON STREET SEWER SEPARATION – PHASE 1.

NOW, THEREFORE,

(a) If said BID shall be rejected, or

(b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

_____ (L.S.)
Principal

_____
Surety

By: _____

IMPORTANT-Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

## AGREEMENT

THIS AGREEMENT, made this _____ day of _____, 20 _____, by and between VILLAGE OF VILLA PARK, hereinafter called "OWNER" and _____ doing business as (an individual) or (a partnership) or (a corporation) hereinafter called "CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

1. The CONTRACTOR will commence and complete the construction of WASHINGTON STREET SEWER SEPARATION – PHASE 1.

2. The CONTRACTOR will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the construction and completion of the PROJECT described herein.

3. The CONTRACTOR will commence the work required by the Contract Documents within 10 calendar days after the date of the NOTICE TO PROCEED and will fully complete the same within 210 CALENDAR DAYS unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.

4. The CONTRACTOR agrees to perform all of the WORK described in the CONTRACT DOCUMENTS and comply with the terms therein for the sum of $_____, or as shown in the BID schedule.

5. The term "CONTRACT DOCUMENTS" means and includes the following:

(A) Advertisement for BIDS
(B) Information for BIDDERS
(C) BID
(D) BID BOND
(E) Agreement
(F) Payment BOND
(G) Performance BOND
(H) NOTICE OF AWARD
(I) NOTICE TO PROCEED
(J) CHANGE ORDER
(K) DRAWINGS prepared or issued by CHRISTOPHER B. BURKE ENGINEERING, LTD numbered 1 through 50, and dated APRIL 15, 2022.

(L) SPECIFICATIONS prepared or issued by CHRISTOPHER B. BURKE ENGINEERING, LTD, dated APRIL 15, 2022.

(M) ADDENDA:

No. _____, dated _____, 20_____

No. _____, dated _____, 20 _____

No. _____, dated _____, 20_____

6. The OWNER will pay to the CONTRACTOR in the manner and at such times, such amounts as required by the CONTRACT DOCUMENTS.

7. The contractor shall not discriminate on the basis of race, color, national origin or sex in the performance of this contract. The contractor shall carry out applicable requirements of 40 CFR Part 33 in the award and administration of contracts awarded under EPA financial assistance agreements. Failure by the contractor to carry out these requirements is a material breach of this contract which may result in the termination of this contract or other legally available remedies.

8. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in (_____) each of which shall be deemed an original on the date first above written.

OWNER:

VILLAGE OF VILLA PARK

By _____

Name NICK CUZZONE

(Please Type) Title VILLAGE PRESIDENT

(SEAL)

ATTEST:

_____

Name HOSANNA KORYNECKY

(Please Type)

Title VILLAGE CLERK

CONTRACTOR:

_____

By _____

Name _____

(Please Type) Address _____

_____

(SEAL)

ATTEST:

_____

Name _____

(Please Type)

Title _____

## PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that

_____
(Name of Corporation)

_____
(Address of Corporation)

a _____ hereinafter called Principal and
(Corporation, Partnership, or Individual)

_____
(Name of Surety)

_____
(Address of Surety)

hereinafter called Surety, are held and firmly bound unto _____

_____
(Name of Owner)

_____
(Address of Owner)

hereinafter called OWNER, in the penal sum of _____

_____ Dollars, $(_____)
in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____20 _____, a copy of which is hereto attached and made a part hereof for the construction of: WASHINGTON STREET SEWER SEPARATION – PHASE 1.

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed hereunder or the SPECIFICATIONS accompanying the same shall in any wise affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ counterparts, each one of which shall be deemed an original, this _____ day of _____ 20 _____.

ATTEST:

_____

_____ By: _____

(SEAL)

_____ _____

_____ _____

_____ _____

ATTEST:

_____

(SEAL)

_____ By: _____

_____ _____

_____ _____

NOTE: Date of BOND must not be prior to date of Contract.
If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

## PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that

_____
(Name of Contractor)

_____
(Address of Contractor)

a _____, hereinafter called Principal, and
(Corporation, Partnership, or Individual)

_____
(Name of Surety)

_____
(Address of Surety)

hereinafter called SURETY, are held and firmly bound unto_____

VILLAGE OF VILLA PARK
(Name of Owner)

20 SOUTH ARDMORE AVENUE, VILLA PARK, IL 60181
(Address of Owner)

hereinafter called OWNER, in the penal sum of _____ Dollars, ($_____)
in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.
THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____, 20_____, a copy of which is hereto attached and made a part hereof for the construction of: WASHINGTON STREET SEWER SEPARATION – PHASE 1.

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, SUBCONTRACTORS, and corporations furnishing materials for or performing labor in the prosecution of the WORK provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such WORK, and all insurance premiums on said WORK, and for all labor, performed in such WORK whether by SUBCONTRACTOR or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed hereunder or the SPECIFICATIONS accompanying the same shall in any wise affect its

obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in ____ counterparts, each one of which shall be deemed an original, this the _____ day of _____ 20 _____.

ATTEST:_____

_____

(SEAL)

By: _____

_____

_____

_____

_____

_____

_____

ATTEST:

By: _____

_____

_____

_____

_____

_____

NOTE: Date of BOND must not be prior to date of Contract.
If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

## NOTICE OF INTENT TO AWARD

To: _____

_____

_____

Project Description: WASHINGTON STREET SEWER SEPARATION – PHASE 1, FURTHER DESCRIBED AS CONSTRUCTION OF STORM SEWER, DRAINAGE STRUCTURES, WATER MAIN, SANITARY SEWER, PAVEMENT RECONSTRUCTION, PAVEMENT RESURFACING, AND RESTORATION.

The OWNER has considered the BID submitted by you for the above described WORK, in response to its Advertisement for Bids, dated _____ and Information for Bidders.

You are hereby notified that your BID will be accepted, contingent upon Illinois Environmental Protection Agency (IEPA) approval, for items in the amount of _____.

You will be required by the Information for Bidders to execute the Agreement and furnish the required CONTRACTOR'S Performance BOND, Payment BOND and certificates of insurance within ten (10) calendar days from the date of the final Notice to be sent upon IEPA approval, to you.

Dated this day of _____

VILLAGE OF VILLA PARK, ILLINOIS
OWNER

By: _____

Title: VILLAGE PRESIDENT

## NOTICE OF AWARD

To: _____

_____

_____

_____

_____

PROJECT Description: WASHINGTON STREET SEWER SEPARATION – PHASE 1, FURTHER DESCRIBED AS CONSTRUCTION OF STORM SEWER, DRAINAGE STRUCTURES, WATER MAIN, SANITARY SEWER, PAVEMENT RECONSTRUCTION, PAVEMENT RESURFACING, AND RESTORATION.

The OWNER has considered the BID submitted by you for the above described WORK in response to its Advertisement for Bids dated _____,20 _____ and Information for Bidders.

You are hereby notified that your BID has been accepted for items in the amount of $_____.

You are required by the Information for Bidders to execute the Agreement and furnish the required CONTRACTOR'S Performance BOND, Payment BOND and certificates of insurance within ten (10) calendar days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said BONDS within ten (10) days from the date of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER'S acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this _____ day of _____, 20 _____.

VILLAGE OF VILLA PARK, ILLINOIS
(Owner)

By: _____

Title: VILLAGE PRESIDENT

**ACCEPTANCE OF NOTICE**

Receipt of the above NOTICE OF AWARD is hereby acknowledged,

by _____,

this the _____day of _____, 20 _____.

By _____

Title _____

## NOTICE TO PROCEED

To:_____

_____

_____

_____

Date: _____

Project: WASHINGTON STREET SEWER SEPARATION – PHASE 1

You are hereby notified to commence WORK in accordance with the Agreement dated _____ _____, 20 _____, on or before _____, 20 _____, and you are to fully complete the WORK within 210 CALENDAR DAYS.

_____
(Owner)

By _____

Title _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by _____

_____,

this the _____day of

_____, 20 _____.

By _____

Title _____

# CHANGE ORDER

**Change Order No. _____**

Date of Issuance: _____ Effective Date: _____

| Project: | Owner: | Owner's Contract No.: |
|---|---|---|
| Contract: | | Date of Contract: |
| Contractor: | | Engineer's Project No.: |

**The Contract Documents are modified as follows upon execution of this Change Order:**

Description:

Attachments: (List documents supporting change):

| **CHANGE IN CONTRACT PRICE:** | **CHANGE IN CONTRACT TIMES:** |
|---|---|
| Original Contract Price:<br>$_____ | Original Contract Times: ☐ Working days ☐ Calendar days<br>Substantial completion (days or date): _____<br>Ready for final payment (days or date): _____ |
| [Increase] [Decrease] from previously approved Change Orders No._____to No._____:<br>$_____ | [Increase] [Decrease] from previously approved Change Orders No._____to No._____:<br>Substantial completion (days): _____<br>Ready for final payment (days): _____ |
| Contract Price prior to this Change Order:<br>$_____ | Contract Times prior to this Change Order:<br>Substantial completion (days or date): _____<br>Ready for final payment (days or date): _____ |
| [Increase] [Decrease] of this Change Order:<br>$_____ | [Increase] [Decrease] of this Change Order:<br>Substantial completion (days or date): _____<br>Ready for final payment (days or date): _____ |
| Contract Price incorporating this Change Order:<br>$_____ | Contract Times with all approved Change Orders:<br>Substantial completion (days or date): _____<br>Ready for final payment (days or date): _____ |

| RECOMMENDED: | ACCEPTED: | ACCEPTED: |
|---|---|---|
| By: _____ | By: _____ | By: _____ |
| Engineer (Authorized Signature) | Owner (Authorized Signature) | Contractor (Authorized Signature) |
| Date: _____ | Date: _____ | Date: _____ |

Approved by Funding Agency (if applicable): _____ Date: _____

## NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY

**(EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

| Timetables | Goals for minority participation for each trade | Goals for female participation in each trade |
|---|---|---|
| | Insert goals for* each year _____ | Insert goals for* each year _____ |

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of $10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is **.

*goals and timetables published from time to time by the Director, Office of Federal Contract Compliance Programs (OFCCP)

**Insert description of the geographical areas where the contract is to be performed giving the state, county and city, if any.

## CONSTRUCTION CONTRACTORS AFFIRMATIVE ACTION REQUIREMENTS
## GOALS FOR MINORITY PARTICIPATION

(As published in the Friday, October 3, 1980 Federal Register)

FEMALE PARTICIPATION= 6.9% STATEWIDE

| County | Percent | | County | Percent | | County | Percent |
|---|---|---|---|---|---|---|---|
| Adams | 3.1 | | Jasper | 11.4 | | Randolph | 11.4 |
| Alexander | 11.4 | | Jefferson | 11.4 | | Richland | 11.4 |
| Bond | 11.4 | | Jersey | 11.4 | | Rock Island | 4.6 |
| Boone | 6.3 | | Jo Davis | 0.5 | | Saline | 3.5 |
| Brown | 3.1 | | Johnson | 11.4 | | Sangamon | 4.5 |
| Bureau | 18.4 | | Kane | 19.6 | | Schuyler | 3.3 |
| Calhoun | 11.4 | | Kankakee | 9.1 | | Scott | 4 |
| Carroll | 3.4 | | Kendall | 18.4 | | Shelby | 4 |
| Cass | 4 | | Knox | 3.3 | | Stark | 3.3 |
| Champaign | 7.8 | | Lake | 19.6 | | St. Clair | 14.7 |
| Christian | 4 | | La Salle | 18.4 | | Stephenson | 4.6 |
| Clark | 2.5 | | Lawrence | 3.5 | | Tazwell | 4.4 |
| Clay | 11.4 | | Lee | 4.6 | | Union | 11.4 |
| Clinton | 14.7 | | Livingston | 18.4 | | Vermilion | 4.8 |
| Coles | 4.8 | | Logan | 4 | | Wabash | 3.5 |
| Cook | 19.6 | | Macon | 7.6 | | Warren | 3.3 |
| Crawford | 2.5 | | Macoupin | 11.4 | | Washington | 11.4 |
| Cumberland | 4.8 | | Madison | 14.7 | | Wayne | 11.4 |
| De Kalb | 18.4 | | Marion | 11.4 | | White | 3.5 |
| De Witt | 4 | | Marshall | 3.3 | | Whiteside | 3.4 |
| Douglas | 4.8 | | Mason | 3.3 | | Will | 20.9 |
| Du Page | 19.6 | | Massac | 5.2 | | Williamson | 11.4 |
| Edgar | 4.8 | | McDonough | 3.3 | | Winnebago | 6.3 |
| Edwards | 3.5 | | McHenry | 19.6 | | Woodford | 4.4 |
| Effingham | 11.4 | | McLean | 2.5 | | | |
| Fayette | 11.4 | | Menard | 4.5 | | | |
| Ford | 4.8 | | Mercer | 3.4 | | | |
| Franklin | 11.4 | | Monroe | 14.7 | | | |
| Fulton | 3.3 | | Montgomery | 11.4 | | | |
| Gallatin | 3.5 | | Morgan | 4 | | | |
| Greene | 11.4 | | Moultrie | 4 | | | |
| Grundy | 18.4 | | Ogle | 4.6 | | | |
| Hamilton | 3.5 | | Peoria | 4.4 | | | |
| Hancock | 3.4 | | Perry | 11.4 | | | |
| Hardin | 5.2 | | Piatt | 4.8 | | | |
| Henderson | 3.4 | | Pike | 3.1 | | | |
| Henry | 4.6 | | Pope | 5.2 | | | |
| Iroquois | 18.4 | | Pulaski | 11.4 | | | |
| Jackson | 11.4 | | Putnam | 18.4 | | | |

**41 CFR 60**
**60-4.1 Scope and Application.**

This part applies to all contractors and subcontractors that hold any Federal or federally assisted construction contract in excess of $10,000. The regulations in this part are applicable to all of a construction contractor's or subcontractor's construction employees who are engaged in on site construction including those construction employees who work on a non-Federal or non-federally assisted construction site. This part also establishes procedures, which all Federal contracting officers and all applicants, as applicable, shall follow in soliciting for and awarding Federal or federally assisted construction contracts. Procedures also are established which administering agencies shall follow in making any grant, contract, loan, insurance, or guarantee involving federally assisted construction which is not exempt from the requirements of Executive Order 11246, as amended. In addition, this part applies to construction work performed by construction contractors and subcontractors for Federal non-construction contractors and subcontractors if the construction work is necessary in whole or in part to the performance of a non-construction contract or subcontract.

[43 FR 49254, OCT. 20, 1978; 43 FR 51404, NOV. 3, 1978]

**60-4.2 Solicitations.**

(a) All Federal contracting officers and all applicants shall include the notice set forth in paragraph (d) of this section and the Standard Federal Equal Employment Opportunity Construction Contract Specifications set forth in § 60-4.3 of this part in all solicitations for offers and bids on all Federal and federally assisted construction contracts or subcontracts to be performed in geographical areas designated by the Director pursuant to § 60-4.6 of the part. Administering agencies shall require the inclusion of the notice set forth in paragraph (d) of this section and the specifications set forth in § 60-4.3 of this part as a condition of any grant, contract, subcontract, loan, insurance or guarantee involving federally assisted construction covered by this Part 60-4.

(b) All non-construction contractors covered by Executive Order 11246 and the implementing regulations shall include the notice in paragraph (d) of this section in all construction agreements, which are necessary in whole or in part to the performance of the covered non-construction contract.

(c) Contracting officers, applicants and non-construction contractors shall given written notice to the Director within 10 working days of award of a contract subject to these provisions. The notification shall include the name, address and telephone number of the contractor; employer identification number; dollar amount of the contract, estimated starting and completion dates of the contract; the contract number; and geographical area in which the contract is to be performed.

(d) The following notice shall be included in, and shall be a part of, all solicitations for offers and bids on all Federal and federally assisted construction contracts or subcontracts in excess of $10,000 to be performed in geographical areas designated by the Director pursuant to § 60-4.6 of this part (see 41 CFR 60-4.2(a)):

**Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)**

1. The Offeror or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

| Time- tables | Goals for minority participation for each trade | Goals for female participation in each trade |
|---|---|---|
| | Insert goals for each year. | Insert goals for each year. |



These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of $10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed giving the state, county and city, if any).

[43 FR 49254, OCT. 20, 1978; 43 FR 51401, NOV. 3, 1978, AS AMENDED AT 45 FR 65977, OCT. 3, 1980]

**60-4.3 Equal Opportunity Clauses.**

(a) The equal opportunity clause published at 41 CFR 60-1.4(a) of this chapter is required to be included in, and is part of, all nonexempt Federal contracts and subcontracts, including construction contracts and subcontracts. The equal opportunity clause published at 41 CFR 60-1.4(b) is required to be included in, and is a part of, all nonexempt federally assisted construction contracts and subcontracts. In addition to the clauses described above, all Federal contracting officers, all applicants and all non-construction contractors, as applicable, shall include the specifications set forth in this section in all Federal and federally assisted construction contracts in excess of $10,000 to be performed in geographical areas designated by the Director pursuant to § 60-4.6 of this part and in construction subcontracts in excess of $10,000 necessary in whole or in part to the performance of non-construction Federal contracts and subcontracts covered under the Executive order.

**Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246)**

**1.** As used in these specifications:

**a.** "Covered area," means the geographical area described in the solicitation from which this contract resulted:

**b.** "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;

**c.** "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

**d.** "Minority" includes:

**(i)** Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);

**(ii)** Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);

**(iii)** Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and

**(iv)** American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

**2.** Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of $10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

**3.** If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

**4.** The Contractor shall implement the specific affirmative action standards provided in paragraphs 7 a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

**5.** Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, nor the regulations promulgated pursuant thereto.

**6.** In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, the Contractor must employ such apprentices and trainees during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

**7.** The Contractor shall take specific affirmative action to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

**a.** Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

**b.** Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

**c.** Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore; along with whatever additional actions the Contractor may have taken.

**d.** Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

**e.** Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.

**f.** Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

**g.** Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

**h.** Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

**i.** Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

**j.** Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

**k.** Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

**l.** Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

**m.** Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

**n.** Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

**o.** Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

**p.** Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

**8.** Contractors are encouraged to participate in voluntary associations, which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

**9.** A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).

**10.** The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.

**11.** The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

**12.** The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

**13.** The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

**14.** The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to

the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

**15.** Nothing herein provided shall be construed as a limitation upon the application of other laws, which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

**(b)** The notice set forth in 41 CFR 60-4.2 and the specifications set forth in 41 CFR 60-4.3 replace the New Form for Federal Equal Employment Opportunity Bid Conditions for Federal and Federally Assisted Construction published at 41 FR 32482 and commonly known as the Model Federal EEO Bid Conditions, and the New Form shall not be used after the regulations in 41 CFR Part 60-4 become effective.

[43 FR 49254, OCT. 20, 1978; 43 FR 51401, NOV. 3, 1978, AS AMENDED AT 45 FR 65978, OCT. 3, 1980]

**60-4.4 Affirmative Action Requirements.**

**(a)** To implement the affirmative action requirements of Executive Order 11246 in the construction industry, the Office of Federal Contract Compliance Programs previously has approved affirmative action programs commonly referred to as "Hometown Plans," has promulgated affirmative action plans referred to as "Imposed Plans" and has approved "Special Bid Conditions" for high impact projects constructed in areas not covered by a Hometown or an Imposed Plan. All solicitations for construction contracts made after the effective date of the regulations in this part shall include the notice specified in § 60-4.2 of this part and the specifications in § 60-4.3 of this part in lieu of the Hometown and Imposed Plans including the Philadelphia Plan and Special Bid Conditions. Until the Director has issued an order pursuant to § 60-4.6 of this part establishing goals and timetables for minorities in the appropriate geographical areas or for a project covered by Special Bid Conditions, the goals and timetables for minorities to be inserted in the Notice required by 41 CFR 60-4.2 shall be the goals and timetables contained in the Hometown Plan, Imposed Plan or Special Bid Conditions presently covering the respective geographical area or project involved.

**(b)** Signatories to a Hometown Plan (including heavy highway affirmative action plans) shall have 45 days from the effective date of the regulations in this part to submit under such a Plan (for the director's approval) goals and timetables for women and to include female representation on the Hometown Plan Administrative Committee. Such goals for female representation shall be at least as high as the goals established for female representation in the notice issued pursuant to 41 CFR 60-4.6. Failure of the signatories, within the 45-day period, to include female

representation and to submit goals for women or a new plan, as appropriate, shall result in an automatic termination of the Office of Federal Contract Compliance Program's approval of the Hometown Plan. At any time the Office of Federal Contract Compliance Programs terminates or withdraws its approval of a Hometown Plan, or when the plan expires and another plan is not approved, the contractors signatory to the plan shall be covered automatically by the specifications set forth in § 60-4.3 of this part and by the goals and timetables established for that geographical area pursuant to § 60-4.6 of this part.

**60-4.5 Hometown Plans**

**(a)** A contractor participating, either individually or through an association, in an approved Hometown Plan (including heavy highway affirmative action plans) shall comply with its affirmative action obligations under Executive Order 11246 by complying with its obligations under the plan: *Provided,* That each contractor or subcontractor participating in an approved plan is individually required to comply with the equal opportunity clause set forth in 41 CFR 60-1.4; to make a good faith effort to achieve the goals for each trade participating in the plan in which it has employees; and that the overall good performance by other contractors or subcontractors toward a goal in an approved plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the plan's goals and timetables. If a contractor is not participating in an approved Hometown Plan it shall comply with the specifications set forth in § 60-4.3 of this part and with the goals and timetables for the appropriate area as listed in the notice required by 41 CFR 60-4.2 with regard to that trade. For the purposes of this part 60-4, a contractor is not participating in a Hometown Plan for a particular trade if it:

**(1)** Ceases to be signatory to a Hometown Plan covering that trade;

**(2)** Is signatory to a Hometown Plan for that trade but is not party to a collective bargaining agreement for that trade;

**(3)** Is signatory to a Hometown Plan for that trade but is party to a collective bargaining agreement with labor organizations, which are not or cease to be signatories to the same Hometown Plan for that trade;

**(4)** Is signatory to a Hometown Plan for that trade but is party to a collective bargaining agreement with a labor organization for that trade but the two have not jointly executed a specific commitment to minority and female goals and timetables and incorporated the commitment in the Hometown Plan for that trade;

**(5)** Is participating in a Hometown Plan for that trade which is no longer acceptable to the Office of Federal Contract Compliance Programs;

**(6)** Is signatory to a Hometown Plan for that trade but is party to a collective bargaining agreement with a labor organization for that trade and the labor organization and the contractor have failed to make a good faith effort to comply with their obligations under the Hometown Plan for that trade.

**(b)** Contractors participating in Hometown Plans must be able to demonstrate their participation and document their compliance with the provision of the Hometown Plan.

[43 FR 49254, OCT. 20, 1978; 43 FR 51401, NOV. 3, 1978]

**60-4.6 Goals and Timetables.**

The Director, from time to time, shall issue goals and timetables for minority and female utilization, which shall be based on appropriate workforce, demographic, or other relevant data and which shall cover construction projects or construction contracts performed in specific geographical areas. The goals, which shall be applicable to each construction trade in a covered contractor's or subcontractor's entire workforce which is working in the area covered by the goals and timetables, shall be published as notices in the Federal Register, and shall be inserted by the contracting officers and applicants, as applicable, in the Notice required by 41 CFR 60-4.2. Covered construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed.

[45 FR 65978, OCT. 3, 1980]

**60-4.7 Effect on Other Regulations.**

The regulations in this part are in addition to the regulations contained in this chapter, which apply to construction contractors and subcontractors generally. See particularly, 41 CFR 60-1.4 (a), (b), (c), (d), and (e); 60-1.5; 60-1.7; 60-1.8; 60-1.26; 60-1.29; 60-1.30; 60-1.32; 60-1.41; 60-1.42; 60-1.43; and 41 CFR Part 60-3; Part 60-20; Part 60-30; Part 60-40; and Part 60-50.

**60-4.8 Show Cause Notice.**

If an investigation or compliance review reveals that a construction contractor or subcontractor has violated the Executive order, any contract clause, specifications or the regulations in this chapter and if administrative enforcement is contemplated, the Director shall issue to the contractor or subcontractor a notice to show cause which shall contain the items specified in paragraphs (i) through (iv) of 41 CFR 60-2.2(c)(1). If the contractor does not show good cause within 30 days, or in the alternative, fails to enter an acceptable conciliation agreement which includes where appropriate, make up goals and timetables, back pay, and seniority relief for affected class members, the OFCCP shall follow the procedure in 41 CFR 60-1.26(b): *Provided,* That where a conciliation agreement has been violated, no show cause notice is required prior to the initiation of enforcement proceedings.

[43 FR 49254, OCT. 20, 1978; 43 FR 51401, NOV. 3, 1978]

**60-4.9 Incorporation by Operation of the Order.**

By operation of the order, the equal opportunity clause contained in § 60-1.4, the Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order

11246) contained in § 60-4.2, and the Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246) contained in § 60-4.3 shall be deemed to be a part of every solicitation or of every contract and subcontract, as appropriate, required by the order and the regulations in this chapter to include such clauses whether or not they are physically incorporated in such solicitation or contract and whether or not the contract is written.

## U.S. ENVIRONMENTAL PROTECTION AGENCY CERTIFICATION OF NONSEGREGATED FACILITIES

(Applicable to federally assisted construction contracts and related subcontracts exceeding $10,000 that are not exempt from the Equal Opportunity clause.)

The federally assisted construction contractor certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The federally assisted construction contractor certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The federally assisted construction contractor agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, creed, color, or national origin, because of habit, local custom or otherwise. The federally assisted construction contractor agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding $10,000 which are not exempt from the provisions of the Equal Opportunity clause, and that he will retain such certification in his files.

_____

Signature Date

_____

Name and Title of Signer (Please type)

_____

Firm Name

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

## NOTICE TO LABOR UNIONS OR OTHER ORGANIZATIONS OF WORKERS NONDISCRIMINATION IN EMPLOYMENT

To: _____
(Name of union or organization of workers)

The undersigned currently holds contract(s) with _____
(name of applicant)
involving funds or credit of the U.S. Government or (a) subcontract(s) with a prime contractor holding such contract(s).

You are advised that under the provisions of the above contracts(s) or subcontract(s) and in accordance with Executive Order 11246, as amended, dated September 24, 1965, as amended, the undersigned is obliged not to discriminate against any employee or applicant for employment because of race, color, creed or national origin. This obligation not to discriminate in employment includes, but is not limited to, the following:

HIRING, PLACEMENT, UPGRADING, TRANSFER OR DEMOTION, RECRUITMENT, ADVERTISING, OR SOLICITATION FOR EMPLOYMENT, TRAINING DURING EMPLOYMENT, RATES OF PAY OR OTHER FORMS OF COMPENSATION, SELECTION FOR TRAINING INCLUDING APPRENTICESHIP, LAYOFF OR TERMINATION.

This notice is furnished you pursuant to the provisions of the above contract(s) or subcontracts(s) and Executive Order 11246, as amended.

Copies of this notice will be posted by the undersigned in conspicuous places available to employees or applicants for employment.

_____
_____
_____
_____
(Contractor or Subcontractor)

_____
(Date)

EPA Project Control #: _____

_____

United States Environmental Protection Agency
Washington, DC 20460

## CERTIFICATION REGARDING DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS

The prospective participant to the best of its knowledge and belief that it and its principles:

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

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

(c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1) (b) of this certification; and

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

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 USC Sec. 1001, a false statement may result in fine of up to $10,000 or imprisonment for up to 5 years, or both.



_____

(Typed Name & Title of Authorized Representative)

_____

(Signature of Authorized Representative) (Date)

_____

☐ I am unable to certify the above statements. My explanation is attached.

EPA FORM 5700-49 (11-88)

**Instructions**

Under Executive Order 12549 an individual or organization debarred or excluded from participation in Federal assistance or benefit programs may not receive any assistance award under a Federal program, or a sub-agreement thereunder for $25,000 or more.

Accordingly, each prospective recipient of an EPA grant, loan, or cooperative agreement and any contract or sub-agreement participant thereunder must complete the attached certification or provide an explanation why they cannot. For further details, see 40 CFR 32.510, Participants' responsibilities, in the attached regulation.

**Where to Submit**

The prospective EPA grant, loan, or cooperative agreement recipient must return the signed certification or explanation with its application to the appropriate EPA Headquarters or Regional office, as required in the application instructions.

A prospective prime contractor must submit a completed certification or explanation to the individual or organization awarding the contract.

Each prospective subcontractor must submit a completed certification or explanation to the prime contractor for the project.

**How to Obtain Forms:**

EPA includes the certification form, instructions, and a copy of its implementing regulation (40 CFR Part 32) in each application kit. Applicants may reproduce these materials as needed and provide them to their prospective prime contractor, who, in turn, may reproduce and provide them to prospective subcontractors.

**Additional copies/assistance may be requested from:**

Compliance Branch
Grants Administration Division (PM-216F)
U.S. Environmental Protection Agency
401 M Street, SW
Washington DC 20460
(Telephone: 202-475-8025)



EPA Form 5700-19 (11-88)

# CONSTRUCTION CONTRACTS OF LOAN RECIPIENT AND OTHER SECTIONS FROM "PROCEDURES FOR ISSUING LOANS FROM THE WATER POLLUTION CONTROL LOAN PROGRAM"

**Section 365.420(b)(2) Change Orders**

A) When the loan recipient authorizes the contractor to add, delete, or revise the work within the general scope of the contract documents, or authorizes an adjustment in the contract price or contract time, the loan recipient shall submit a change order to the Agency.

B) For each change order, the loan recipient shall submit to the Agency for approval the following documentation:

i) one copy of the fully executed change order signed by the loan recipient, construction engineer, and the contractor; and

ii) a description of any changes, with justification for the changes.

C) Prior approval by the Agency of a change order is required when a change order results in:

i) alterations in design scope that require a modification to a construction permit; or

ii) an increase in the amount of loan funds needed to complete the project.

D) Failure to give timely notice of proposed project changes or action by the loan recipient that is not consistent with the Agency's determination on those changes may result in disallowance of loan participation for costs incurred that are attributable to the change

**Section 365.620(a) Required Construction Contract Provisions**

Each construction contract shall include the following provisions:

1) Audit; access to records:

A) The contractor shall maintain books, records, documents and other evidence directly pertinent to performance on loan work in accordance with Generally Accepted Accounting Principles (GAAP). The contractor shall also maintain the financial information and data used by the contractor in the preparation or support of any cost submissions required under subsection (c) above, (Negotiation of Contract Amendments, Change Orders) and a copy of the cost summary submitted to the owner. The Auditor General, the owner, the Agency, or any of their duly authorized representatives shall have access to the books, records, documents, and other evidence for purposes of inspection, audit, and copying. The contractor will provide facilities for such access and inspection.

B) If this contract is a formally advertised, competitively awarded, fixed price contract, the contractor agrees to include access to records as specified in subsection (d)(1)(A) above. This requirement is applicable to all negotiated change orders and contract amendments in excess of $25,000 that affect the contract price. In the case of all other prime contracts, the contractor also agrees to include access to records as specified above in all his or her contracts and all tier

subcontracts or change orders in excess of $25,000 that are directly related to project performance.

C) Audits shall be consistent in accordance with auditing standards generally accepted in the United States of America.

D) The contractor agrees to the disclosure of all information and reports resulting from access to records pursuant to subsection (d)(1)(A) above. Where the audit concerns the contractor, the auditing agency will afford the contractor an opportunity for an audit exit conference and an opportunity to comment on the pertinent portions of the draft audit report. The final audit report shall include the written comments, if any, of the audited parties.

E) The records required by subsection (d)(1)(A) above shall be maintained and made available during performance of the work under the loan agreement and for three years after the date of the final loan audit. In addition, records that relate to any dispute or litigation or the settlement of claims arising out of any performance, costs or items to which an audit exception has been taken, shall be maintained and made available for three years after resolution of the dispute, appeal, litigation, claim or exception.

F) The right of access will generally be exercised with respect to financial records under:

i) Negotiated prime contracts;

ii) Negotiated change orders or contract amendments in excess of $25,000 affecting the price of any formally advertised, competitively awarded, fixed price contract; and

iii) Subcontracts or purchase orders under any contract other than a formally advertised, competitively awarded, fixed price contract.

G) The right of access will generally not be exercised with respect to a prime contract, subcontract, or purchase order awarded after effective price competition. In any event, the right of access shall be exercised under any type of contract or subcontract:

i) With respect to records pertaining directly to contract performance, excluding any financial records of the contractor; and

ii) If there is any indication that fraud, gross abuse, or corrupt practices may be involved in the award or performance of the contract or subcontract.

2) Covenant against contingent fees.

The contractor shall warrant that no person or selling agency has been employed or retained to solicit or secure the contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee. For breach or violation of this warranty, the owner shall have the right to annul the contract without liability or in its discretion to deduct from the contract price or consideration, or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

3) Wage provisions.

The Contractor shall pay prevailing wages in accordance with the Davis-Bacon Act (40 USC 276a through 276a-5 as defined by the U.S. Department of Labor. More information and guidance on the Davis-Bacon Wage Rate requirements is available on the IEPA website.

4) Disadvantaged business enterprise requirements.

The contractor shall provide evidence, including, but not limited to, a copy of the advertisement or advertisements and the record of negotiation, that the contractor has take affirmative steps in accordance with 40 CFR, Part 33 to assure that disadvantaged business enterprises are used when possible as sources of supplies, equipment, construction and services consistent with the provisions of the Agency's Operating Agreement with USEPA.

5) Debarment and suspension provisions.

The contract shall require the successful bidder or bidders to submit a "Certificate Regarding Debarment, Suspension and Other Responsibility Matters" (EPA Form 5700-49) showing compliance with federal Executive Order 12549.

6) Non-segregated facilities provisions

The successful bidder shall be required to submit a certification of non-segregated facilities as prescribed by 18 USC 1001.

7) American Iron and Steel
The successful bidder shall be required to use American Iron and Steel, if required by USEPA for that fiscal year.

8) A clause that provides:

"No contractor or subcontractor shall discriminate on the basis of race, color, national origin or sex in the performance of this contract. The contractor or subcontractor shall carry out applicable requirements of 40 CFR 33 in the award and administration of contracts awarded under the WPCLP. Failure by the contractor or subcontractor to carry out these requirements is a material breach of this contract which may result in the termination of this contract or other legally available remedies."

**Section 365.620(b) Subcontracts Under Construction Contracts**

The award or execution of all subcontracts by a prime contractor and the procurement and negotiation procedures used by the prime contractor shall comply with:

1) All applicable provisions of federal, State and local law;

2) All provisions of this Part 365 with respect to fraud and other unlawful or corrupt practices;

3) All provisions of this Part 365 with respect to access to facilities, records and audit of records; and

4) All provisions of subsection (a)(5) that require a "Certification Regarding Debarment, Suspension, and Other Responsibility Matters (EPA Form 5700-49) showing compliance with federal Executive Order 12549.

**Section 365.620(c) Contractor Bankruptcy**

In the event of a contractor bankruptcy, the loan recipient shall notify the Agency and shall keep the Agency advised of any negotiations with the bonding company, including any proposed settlement. The Agency may participate in those negotiations and will advise the loan recipient of the impact of any proposed settlement to the loan agreement. The loan recipient shall be responsible for assuring that every appropriate procedure and incidental legal requirement is observed in advertising for bids and re-awarding a construction contract.

**Section 365.620(d) Access**

Every contract entered by the loan recipient for construction work, and every sub-agreement, shall provide the Agency representatives with access to the work. The contractor or subcontractor shall provide facilities for such access and inspection.

**Section 365.640(c) Remedies**

All claims, counter-claims, disputes and other matters in question between the loan applicant and the contractor arising out of, or relating to a sub-agreement or its breach shall be decided by arbitration if the parties agree, or in a court of competent jurisdiction within the State.

## BIDDER CERTIFICATION IN COMPLIANCE WITH ARTICLE 33E-11 TO THE "CRIMINAL CODE OF 2012"

I _____, do hereby certify that:
Name

1. I am _____ of the _____
Position Firm
and have authority to execute this certification on behalf of the firm

2. This firm is not barred from bidding on this contract due to either a Bid-rigging or Bid Rotating violation as set forth in Article 33E-11 to the "Illinois Criminal Code of 2012 [720 ILCS 5/33E-11]""

Name of Firm _____

Signature _____

Title _____

Date _____
Corporate Seal (where appropriate)

On this _____day of _____20_____, before me appeared (Name)

_____ to me personally known, who, being duly sworn, did execute the foregoing affidavit, and did state that he or she was properly authorized by (Name of Firm) _____ to execute the affidavit and did so as his or her free act and deed.

Notary Public _____Commission Expires _____

Notary Seal

# SPECIFICATIONS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION

(Name of Loan Recipient) VILLAGE OF VILLA PARK, ILLINOIS

I. Disadvantaged Business Enterprise Policy

A. It is the policy of the State of Illinois to award a fair share of sub-agreements to disadvantaged businesses (DBEs). In complying with this requirement, contractors are required to take affirmative steps to assure that disadvantaged businesses are used when possible as sources of supplies, equipment, construction, and services as explained herein.

B. These specifications define the terms, conditions, and requirements of the State Revolving Fund Loan Program, and the (Name of Loan Recipient) VILLAGE OF VILLA PARK policy and procedures for complying with these requirements.

C. As required by the award conditions of USEPA's Assistance Agreement with IEPA, the fair share percentages are 5% for MBEs and 12% for WBEs.

II. Pre-Contract Award Obligations

A. All bidders are required to advertise subcontracting opportunities and to negotiate with disadvantaged businesses prior to bid opening. Failure to document such affirmative efforts shall be deemed, relative to disadvantaged business compliance, non-responsive.

B. To establish a bid as responsible, the bidder will be required to document the proposed utilization of disadvantaged businesses with letters of intent signed by the bidder and by the disadvantaged business listed in the bid. The documentation requirements are outlined in Section III of this document.

C. (Name of Loan Recipient) VILLAGE OF VILLA PARK disadvantaged business policy clearly intends for bidders to contact and encourage the participation of disadvantaged businesses prior to bid opening. Affirmative efforts (the written record of conscientious and honest communications between the bidder and disadvantaged business) must be initiated and completed by the bidder prior to bid opening. All bidders must document compliance with the requirements of the disadvantaged business policy.

III. Evaluation of Disadvantaged Business Utilization and Affirmative Efforts

A. As a prerequisite to demonstrate compliance with the (Name of Loan Recipient) VILLAGE OF VILLA PARK disadvantaged business policy, ALL bidders shall provide the following with its bid:

1. Completed and signed certification from the bidder(s), attesting that the bidder will award no sub-agreements, including the procurement of

equipment, materials, supplies and services, in the performance of this contract.

**OR**

2. "Certification of publication," or adequate proof of publication, including an actual copy of the newspaper advertisement from a daily newspaper. **The advertisement must run one day at least (16) days prior to bid opening.** An example advertisement follows this section.

   Bidders may publish the advertisement in an established, online bidder's clearinghouse such as the "Dodge Report (http://construction.com/dodge/)". If an online advertisement is placed with the "Dodge Report" or an equivalent website, a screenshot of the advertisement along with the webpage address, and a payment receipt is required as documentation. **The advertisement must run one day at least (16) days prior to bid opening.**

3. List of all disadvantaged business enterprise (DBE) and non-DBE's that submitted proposals to the bidder along with the date of the proposal. Names, addresses, phone number and/or e-mail are required.

4. List of disadvantaged businesses not being utilized and justification for non-utilization.

5. If DBE subcontractors will be utilized for the project, a completed and signed copy of IEPA DBE Form No. 3 (DBE Subcontractor Utilization Form) or an equivalent "Notice of Intent" is needed from each subcontractor.

6. If DBE subcontractors will be utilized for the project, a completed and signed certification from the bidder(s), attesting that the bidder has no controlling or dominating interest or conflict of interest with the disadvantaged business that will be utilized.

7. In instances where the bidder(s) does not receive any proposals from disadvantaged businesses prior to bid opening, the bidder(s) must provide a written certification attesting that no proposals were received.

Failure to submit the documentation pursuant to the requirements of A (1-7) above may cause rejection of the bid as non-responsive**.**

IV. Sanctions

A. The (Name of Loan Recipient) VILLAGE OF VILLA PARK may reject one or all bids when the information submitted by the bidder(s) fails to demonstrate compliance with the disadvantaged business requirements (i.e., the bidder fails to place their pre-bid advertisement in a daily newspaper, or approved website, at least 16 days prior to bid opening).

B. Upon finding that any Party has not complied with the requirements of these specifications, including misrepresenting a firm as a disadvantaged business, any one or a combination of the following actions may be taken.

1. Declare the bidder and/or subcontractor non-responsible and therefore, ineligible for contract award.

2. Disallow all contract costs associated with non-compliance.

3. Refer matters which may be fraudulent to the Illinois Attorney General.

V. Post-Contract Award Compliance

A. As required by the award conditions of USEPA's Assistance Agreement with IEPA, all sub-agreements of the prime contractor must identify that the fair share percentages are 5% for MBEs and 12 % for WBEs.

B. After award of the prime contract, copies of all disadvantaged business related sub-agreements between the prime contractor and subcontractors shall be submitted to the owner.

C. Subsequent to bid submission, any changes in previously reported disadvantaged businesses utilization shall be handled in accordance with 40 CFR Part 33.302(b-h). If the contractor fails to initiate such actions, the owner may withhold payments and/or institute other appropriate sanctions.

## SUGGESTED DISADVANTAGED BUSINESS (DBE) ADVERTISEMENT FOR CONSTRUCTION CONTRACTORS

Notice to Disadvantaged Businesses

_____, _____, _____, is
(Name of Company) (Address of Company) (Telephone)

seeking disadvantaged businesses for the VILLAGE OF VILLA PARK, ILLINOIS
(Name of Loan Recipient)

Project for subcontracting opportunities in the following areas: _____, _____, _____, _____

All disadvantaged businesses should contact, IN WRITING, (certified letter, return receipt requested), _____ to discuss the subcontracting opportunities. All negotiations must
(Company Contact Person)

be completed prior to bid opening _____.
(Date of Bid Opening)

*The advertisement must clearly state the method of evaluating the proposals or quotations, and the relative importance attached to each criterion. Bidders must uniformly and objectively evaluate the proposals submitted by disadvantaged business in response to the advertisement based upon the evaluation criteria stated in the advertisement. The evaluation criteria must not be restrictive or exclusionary.

## SUMMARY REPORT OF DISADVANTAGED BUSINESS ENTERPRISE REQUIREMENTS FOR CONTRACTORS

1) Completed and signed certification from bidder(s), attesting that the bidder will award no sub-agreements, including the procurement of equipment, materials, supplies and services in the performance of this contract (may use IEPA DBE Form #1).

**OR**

"Certificate of publication, or adequate evidence of proof of publication, including an actual copy of the newspaper advertisement from a daily publication. For advertisements placed in a construction project clearinghouse such as www.construction.com, a screenshot of the advertisement, link to website, and receipt is required for proof of advertising.

2) List of all disadvantaged business enterprises (DBE) and non-DBE's that submitted proposals to the bidder/prime contractor. Specify as DBE or non-DBE, type of DBE, and the other information listed below (DBE Form #4 may be used for this purpose).

Name of Company
Name of Owners
Address of Company
E-mail Address of Company
Telephone Number
Date of Proposal
Type of Business
Type of DBE
Description of work to be performed

3) List of disadvantaged businesses that submitted proposals to the bidder but will not be utilized. Justification for non-utilization must be provided (may use IEPA DBE Form #1).

4) Completed and signed copies IEPA DBE Form #3 (Subcontractor Utilization Form) or equivalent "Notice of Intent". Only applies if using DBE subcontractors.

5) Completed and signed certification from bidder(s) attesting that the bidder has no dominating or conflict of interest with the disadvantaged business to be utilized (IEPA DBE Form #1). Only applies if using DBE subcontractors.

6) In instances where the bidder(s) does not receive any proposals from disadvantaged businesses prior to bid opening, the bidder(s) must provide a written certification attesting that no proposals were received (IEPA DBE Form #1).

7) **Note:** DBE Form #2 is **not** included in this packet. It is for consultants/engineers to report DBE activity. This form may be found in IEPA's DBE Guidance Manual which is available on the Agency's website or mailed upon request by calling 217-782-2027.

## IEPA DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM FORM #1
### CONTRACTOR CERTIFICATION FORM

**(To be completed by all Prime Contractors)**

Please check the appropriate boxes that apply and complete the information on the bottom of the form.

- ☐ This firm will award no subcontracts (including in the procurement of equipment, supplies, or services), in the performance of this contract.
- ☐ This firm advertised for DBE subcontractors according to the good faith efforts outlined in the IEPA DBE Guidance Document.
- ☐ This firm received proposals from DBE(s) that will not be utilized. A list of the DBEs not hired, along with their address, phone number, and reason(s) for non-utilization, is below.



- ☐ This firm did not receive any inquiries from DBEs.

I certify that the above is true. I further certify that this firm and its partners, directors, and officers do not possess a controlling interest in ownership or conflict of interest or any other authority to control the DBE to be used during the performance of the contracts.

By: _____

NAME: _____

TITLE: _____

Company: _____

Date: ___/ ___ / _____

## EPA DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM FORM #3
## SUBCONTRACTOR UTILIZATION FORM

(Only complete this form if DBE subcontractors or sub-consultants will be working on a project)

This form is intended to capture the DBE subcontractor's description of work to be performed and the price of the work submitted to the prime contractor. All subcontractors must complete this form, and it must be included in the prime contractor's bid package.

| | |
|---|---|
| Subcontractor Name | Project Name |
| Contact Person's Name & Title | |
| Address | |
| Telephone | Email |
| DBE Certified By: | Select One:<br>**MBE WBE SBE DBE** |
| Prime Contractor Name | |

| **Type of Work to be Performed** | **Cost Estimate of Work** |
|---|---|
| | |

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to using the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 C.F.R. Part 33 Section 33.302(c).

| | |
|---|---|
| **Prime Contractor Signature:** | **Print Name:** |
| **Date:** | **Title:** |
| **Subcontractor Signature:** | **Print Name:** |
| **Date:** | **Title:** |

## IEPA DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM FORM #4, BIDDERS LIST

**(Only complete this form if subcontractors or sub-consultants will be working on a project)**

**Using this form/format is optional. Other formats are acceptable.**



| Company Name & Contact Person | Address | Phone No. w/ area code | Email | Proposed Work (supplies, paint, paint etc.) | DBE Status (MBE, WBE, DBE, SBE) |
|---|---|---|---|---|---|
| | | | | | Check if Hired ☐ |
| | | | | | Check if Hired ☐ |
| | | | | | Check if Hired ☐ |
| | | | | | Check if Hired ☐ |

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## BIDDER CERTIFICATION REGARDING THE USE OF AMERICAN IRON AND STEEL PRODUCTS

_____, do
hereby certify that:
Name

1. I am_____(title) of the _____(company, partnership, etc.) and have authority to execute this certification on behalf of the firm.

2. This firm is aware that all iron and steel products used for this project must be produced in the United States per Section 436 (a) – (f) of the Consolidated Appropriations Act, 2014.

3. This firm is aware that the use of American iron and steel products applies to all projects for the construction, alteration, maintenance, or repair of publically owned treatment works (POTW) or public water systems.

4. This firm understands the term “iron and steel products” refers to the following products made primarily of iron or steel: lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, reinforced precast concrete, and construction materials.

5. I am aware that this requirement applies to all portions of the project that are subcontracted.

Name of Company _____

Signature_____

Title _____

Date _____

Corporate Seal (where appropriate)

## REQUIREMENTS SPECIFIC TO AMERICAN IRON AND STEEL

The Consolidated Appropriations Act of 2014 (Public Law 113-76) first included an "American Iron and Steel (AIS)" requirement that requires Clean Water State Revolving Fund (CWSRF) and Drinking Water State Revolving Fund (DWSRF) loan recipients to use iron and steel products that are produced in the United States for projects involving the construction, alteration, maintenance, or repair of a public water system or treatment works if the project is funded through a CWSRF or a DWSRF loan. Guidance is available on USEPA's website: http://water.epa.gov/grants_funding/aisrequirement.cfm. Waivers from the requirements are available under certain circumstances.

For CWSRF or DWSRF purposes, an iron or steel product is one of the following made primarily of iron or steel that is permanently incorporated into the public water system or treatment works:

Pipes (lined or unlined) and fittings;
Manhole Covers;
Municipal Castings (defined in more detail below);
Hydrants;
Tanks;
Flanges;
Pipe clamps and restraints;
Valves;
Structural steel (defined in more detail below);
Reinforced precast concrete; and
Construction materials (defined in more detail below).

For one of the listed products to be considered subject to the AIS requirements, it must be made of greater that 50% iron or steel, measured by costs. The cost should be based on the material costs.

For the purposes of AIS, steel means an alloy that includes at least 50 percent iron, between .02 and 2 percent carbon, and may include other elements. Metallic elements such as chromium, nickel, molybdenum, manganese, and silicon may be added during the melting of steel for the purpose of enhancing properties such as corrosion resistance, hardness, or strength. The definition of steel covers carbon steel, alloy steel, stainless steel, tool steel and other specialty steels.

For the purposes of AIS, production in the United States of the iron or steel products used in the project requires that all manufacturing processes, including application of coatings, must take place in the United States, except for metallurgical processes involving refinement of steel additives. All manufacturing processes includes processes such as melting, refining, forming, rolling, drawing, finishing, fabricating and coating. Further, if a domestic iron and steel product is taken out of the US for any part of the manufacturing process, it becomes foreign source material. However, raw materials such as iron ore, limestone and iron and steel scrap are not covered by the AIS requirement, and the material(s), if any, being applied as a coating are similarly not covered. Non-iron or steel components of an iron and steel product may come from non-US sources. For example, for products such as valves and hydrants, the individual non-iron and steel components do not have to be of domestic origin. Raw materials, such as iron ore, limestone, scrap iron, and scrap steel, can come from non-US sources.

For AIS, municipal castings are cast iron or steel infrastructure products that are melted and cast. They typically provide access, protection, or housing for components incorporated into utility owned drinking water, storm water, wastewater, and surface infrastructure. They are typically made of grey or ductile iron, or steel. Examples of municipal castings are:

Access Hatches;
Ballast Screen;
Benches (Iron or Steel);
Bollards;
Cast Bases;
Cast Iron Hinged Hatches, Square and Rectangular;
Cast Iron Riser Rings;
Catch Basin Inlet;
Cleanout/Monument Boxes;
Construction Covers and Frames;
Curb and Corner Guards;
Curb Openings;
Detectable Warning Plates;
Downspout Shoes (Boot, Inlet);
Drainage Greats, Frames and Curb Inlets;
Inlets;
Junction Boxes;
Lampposts;
Manhole Covers, Rings and Frames, Risers;
Meter Boxes;
Service Boxes;
Steel Hinged Hatches, Square & Rectangular;
Steel Riser Rings;
Trash receptacles;
Tree Grates;
Tree Guards;
Trench Grates; and
Valve Boxes, Covers and Risers.

For AIS, structural steel is rolled flanged shapes, having at least one dimension of their cross-section three inches or greater, which are used in the construction of bridges, buildings, ships, railroad rolling stock, and for numerous other constructional purposes. Such shapes are designated as wide-flange shapes, standard I-beams, channels, angles, tees and zees. Other shapes include H-piles, sheet piling, tie plates, cross ties, and those for other special purposes.

For AIS, construction materials are those articles, materials, or supplies made primarily of iron and steel, that are permanently incorporated into the project, not including mechanical and/or electrical components, equipment and systems. Some of these products may overlap with what is also considered "structural steel." This includes, but is not limited to, the following products: wire rod, bar, angles, concrete reinforcing bar, wire, wire cloth, wire rope and cables, tubing, framing, joists, trusses, fasteners (i.e., nuts and bolts), welding rods, decking, grating, railings, stairs, access ramps, fire escapes, ladders, wall panels, dome structures, roofing, ductwork, surface drains, cable handing systems, manhole steps, fencing and fence tubing, guardrails, doors, and stationary screens.

For the purposes of AIS, mechanical and electrical components, equipment and systems are not considered construction materials. Mechanical equipment is typically that which has motorized parts and/or is powered by a motor. Electrical equipment is typically any machine powered by electricity and includes components that are part of the electrical distribution system.

There are specific requirements for precast concrete to comply with AIS. While reinforced precast concrete may not be at least 50% iron or steel, in this case, the reinforcing bar and wire must be produced in the US and meet the same standards as for any other iron or steel product. Additionally, the casting of the concrete product must take place in the US. The cement and other raw materials used in concrete production are not required to be of domestic origin. If the reinforced concrete is cast at the construction site, the reinforcing bar and wire are considered a construction material and must be produced in the US.

**Recordkeeping for Iron and Steel Products: Documenting the Country of Origin for Iron and Steel Products for Loan Programs**

Loan recipients with assistance from their general contractor must be able to verify that products used in their projects comply with the AIS requirements. USEPA recommends loan recipients use a "Step Certification" process to ensure that producers adhere to the AIS requirements. Step certification is a process under which each handler (supplier, fabricator, manufacturer, etc.) of the iron and steel products certifies that their step in the process was domestically performed. Each time a step in the manufacturing process takes place, the manufacturer delivers its work along with a certification of its origin. A certification can be quite simple as long

as it includes the name of the manufacturer, the location of the manufacturing facility (not company headquarters), a description of the product or item being delivered, and a signature by a manufacturer's responsible party. An example of this type of certification is attached.

Certification could be achieved by other methods such as requiring the final manufacturer, who delivers the iron/steel products to the worksite, to provide certification that all manufacturing processes occurred in the US. While this type of certification is easier and acceptable, it may not provide the same degree of assurance and additional documentation may be needed. USEPA auditors recommend keeping records of when and where the products were delivered. Examples include: Perry Water Plant on August 3, 2017, or Jankousky Construction Offices on October 5, 2017. Records from the manufacturer should refer to specific items such as pipes, valves, meters. Try to avoid records containing broad statements such as, "All products delivered were made in the USA."

Regardless of the method, documents regarding the country of origin for iron and steel products should be collected and maintained by all loan recipients. Having a good paper trail is invaluable during an inspection or audit.

Information is available at http://www.epa.illinois.gov/topics/grants-loans/water-financial-assistance/state-revolving-fund/guidance/index.

**Sample Certification Letter**

The following information is provided as a sample letter of step certification for AIS compliance. The completed letter is provided to the construction contractor or loan applicant from the supplier, fabricator, manufacturer, etc. of iron and steel products. Documentation must be provided on company letterhead. If e-mail is used, documents should be scanned so the company letterhead is visible.

Company Letterhead

Date

Company Name
Company Address
City, State, Zip

Subject: American Iron and Steel Step Certification for Project (xxx ***Identify Project Here*** xxx)

I, (company representative), certify that the (melting, bending, coating, galvanizing, cutting, etc.) process for (manufacturing or fabricating) the following products and/or materials shipped or provided for the subject project is in full compliance with the American Iron and Steel requirements as mandated in EPA's State Revolving Fund Programs.

Item, Products, and/or Materials:

1. XXX
2. XXX
3. XXX

Such process took place at the following location (City and State must be included):
If any of the above compliance statements change while providing material to the project we will immediately notify the prime contractor and the engineer.

Signed by Company Representative

## EMPLOYMENT OF ILLINOIS WORKERS ON PUBLIC WORKS ACT

This law comes into effect following two consecutive months of a state unemployment rate above 5 percent. More information about the Employment of Illinois Workers on Public Works Act can be found here: http://www.ilga.gov/legislation/ilcs/ilcs3.asp?ActID=549&ChapterID=7.

The Employment of IL Workers on Public Works Act requires the workforce on all public works projects to be comprised of a minimum of 90% Illinois residents.

The Illinois Department of Labor (IDOL) administers the Employment of Illinois Workers on Public Works Act, which was enacted to alleviate unemployment in Illinois by ensuring that most workers on public works projects live in the state. The requirement applies to all labor on public works projects or improvements. That includes public works projects that are funded in whole or in part with state funds or funds administered by the state of Illinois. Any public works project financed in whole or in part by federal funds administered by the state of Illinois is covered under the provisions of this act.

By signing below, the Contractor confirms awareness of this requirement.

_____

(Typed Name & Title of Authorized Representative)

_____

(Signature of Authorized Representative) (Date)

_____

(Company/Organization)

## ILLINOIS WORKS JOBS PROGRAM ACT – APPRENTICESHIP INITIATIVE

**Information for Contractors**

**Summary:** The Illinois Works Jobs Program Act, 30 ILCS 559/Art. 20, is a statewide initiative to ensure that all Illinois residents have access to State capital projects and careers in the construction industry and building trades and to provide contracting and employment opportunities to historically underrepresented populations in the construction industry. This will be accomplished through three programs created by the Illinois Works Jobs Program Act: the Illinois Works Apprenticeship Initiative, the Illinois Works Pre-Apprenticeship Program, and the Illinois Works Bid Credit Program. Additional information is available at the following website: https://www2.illinois.gov/dceo/WorkforceDevelopment/Pages/IllinoisWorksJobsProgramAct.aspx.

The goal of the Illinois Works Apprenticeship Initiative ("10% apprenticeship goal") is that for projects estimated to cost $500,000 or more, apprentices will perform either 10% of the total labor hours actually worked in each prevailing wage classification or 10% of the estimated labor hours in each prevailing wage classification, whichever is less. The 10% apprenticeship goal applies to projects being paid for in whole or in part by appropriated capital funds to construct a public work either through a contract or grant issued by a State agency. A determination was made that this requirement also applies to IEPA loans. The $500,000 threshold applies to the total project cost and NOT the total cost or value of an individual construction contract.

**Certification:** Apprentices are required to be U.S. Dept. of Labor certified (not limited to pre-apprentice program graduates).

**Applicability**

**If a project is estimated to received $500,000 or more of State Capital Funding for the Project:**

If the state's contribution to the project amount equals 50% or more of the cost for the project, the 10% apprenticeship requirement applies to all prevailing wage eligible work performed by contractors on the public works project.

If the state's contribution to the project is less than 50% of the cost for the project, the 10% apprenticeship requirement applies only to prevailing wage eligible work being funded from state funds.

**The Project has less than $500,000 of State Capital Funding, but the Total Estimated Project Cost is $500,000 or more:**

If the state's contribution to the project amount equals 50% or more of the estimated cost for the project, the 10% apprenticeship requirement applies to all prevailing wage eligible work performed by contractors on the public works project.

If the state's contribution to the project is less than 50% of the estimated cost for the project, the 10% apprenticeship requirement does not apply.

**Total Estimated Project Cost is less than $500,000:** The 10% apprenticeship requirement does not apply. The $500,000 threshold applies to the total project cost and NOT the total cost or value of an individual construction contract.

**Waivers from the Requirements:** If goals cannot be met, the state has discretion to grant waivers, reductions or to hold public hearings on the issue. Factors to be considered include the scale of the project and whether the contractor or subcontractor seeking the action has previously requested reductions or waivers. A waiver form is available on the IEPA website at: https://www2.illinois.gov/epa/Documents/epa-forms/water/financial-assistance/apprenticeship/Waiver-Request.pdf. The form can also be obtained from DCEO.

**Reporting:** An example quarterly reporting form is attached. A fillable version is available on the IEPA website. Contractors should coordinate with the loan applicant and their consultant for further instructions regarding these forms. Loan applicants are ultimately responsible for reporting quarterly labor hours to the state, but coordination with their contractor is essential. All loan funded projects are subject to payment of Davis Bacon wages.

**For general apprenticeship questions**, please contact the Illinois Works Office at: CEO.ILWorks@Illinois.gov.

# Illinois Works Apprenticeship Initiative
# Periodic Grantee Report



| | | | | | |
|---|---|---|---|---|---|
| Organization Name | | FEIN Number | | DUNS Number | |
| Grant Awarding Agency | IEPA - Loan Department | Project Start Date | | Project End Date | |
| Grant Number | Loan No. | Estimated Total Project Costs | | Estimated Total State Contribution | |

## Applicable Apprenticeship Goal (Select all that apply):

☐ 10% total project cost ☐ 10% total state contribution only

☐ Waiver Approved by IL DCEO IL DCEO Waiver Approval Date

(If a waiver was granted for any prevailing wage classification, the Grantee does not need to report on those classifications on this form.)

☐ Reduction Approved by IL DCEO IL DCEO Reduction Approval Date

(If selected, enter the applicable prevailing wage classification(s) and approved reduced percentage(s).)

| Prevailing Wage Classification | Reduced Percentage |
|---|---|
| | |
| | |
| | |
| | |

## Reporting Period:

Period Start Date Period End Date

# Illinois Works Apprenticeship Initiative

## Periodic Grantee Report



Please provide information in this chart for the entire project if the apprenticeship goal applies to the entire project. Provide information for only thestate contribution if the apprenticeship goal applies only to state appropriated capital funds.

| Prevailing Wage Classification | Total Hours for Classification in Reporting Period | Total Apprenticeship Hours for Classification in Reporting Period | % of Apprenticeship Hours | Total Hours for Classification YTD | Total Apprenticeship Hours YTD | % of Apprenticeship Hours YTD |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

# SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2022 (referred to hereinafter as the "Standard Specifications"); the "Supplemental Specifications and Recurring Special Provisions", adopted January 1, 2022; the "Illinois Manual on Uniform Traffic Control Devices For Streets and Highways", latest edition (referred to hereinafter as the "IMUTCD"); and the "Standard Specifications for Water and Sewer Construction in Illinois", latest edition (referred to hereinafter as the "Water and Sewer Specifications"). In case of conflict with any part or parts of said Specifications, these Special Provisions shall take precedence and shall govern. Where no conflict exists, the said Specifications shall apply to this Contract as if repeated in their entirety herein.



## DEFINITIONS

**Contractor.** The individual, firm, partnership, joint venture, or corporation contracting with the Village of Villa Park for performance of prescribed work.

**Department, Owner or Village.** The Village of Villa Park, DuPage County, Illinois.

**Engineer.** The Resident Engineer who is the authorized representative of the Village of Villa Park in immediate charge of the engineering details of a construction project.

## LOCATION OF PROJECT

This project is located on Monterey Avenue from Washington Street to Park Boulevard and Highland Avenue from Monterey Avenue to Riverside Drive. The project limits are located in the Village of Villa Park, Illinois.

## DESCRIPTION OF PROJECT

This project consists of installing approximately 2,700 linear feet of storm sewer varying in size from 12" to 54". The project also includes ductile iron water main installation, sanitary sewer installation, pavement removal, aggregate base course, Hot-Mix Asphalt Binder Course, Hot-Mix Asphalt Surface Course, curb and gutter removal and replacement, sidewalk removal and replacement, driveway pavement removal and replacement, sanitary service installation, water service installation, earth excavation, and landscape restoration.

# GENERAL SPECIAL PROVISIONS

## QUALIFICATIONS OF BIDDERS

Bidders will comply with all applicable Federal, State and local laws and requirements, and will further meet the qualifications prescribed in this and other applicable portions of these provisions.

Bidder, in submitting a Bid, certifies that Bidder is in compliance with all applicable Federal, State and local laws and requirements, and that Bidder further meets the qualifications prescribed in this and other applicable portions of these provisions. Engineer's determination as to the compliance and qualifications of the Bidder will be final, and Bidder, in submitting a Bid, agrees to be bound by that determination.

Bidder, in submitting a Bid, certifies that Bidder is in compliance with the following requirements and qualifications. Bidder further certifies that Bidder is able to provide written evidence of Bidder's compliance with the following requirements and qualifications. Bidder shall, upon request by Engineer, submit such written evidence within five (5) calendar days of the Engineer's request, as well as any other written evidence which Engineer may deem necessary for the purpose of evaluating Bidder's qualifications.

(a) Bidder shall be qualified to do business in the State of Illinois.

(b) Bidder shall possess either a valid Federal Employer Tax Identification Number (FEIN) or a valid Social Security Number (SSN).

(c) Bidder shall be able to provide a street address and description of the Bidder's place of business, and the mailing address of the business, if different from the street address.

(d) Bidder shall be able to provide the number of years Bidder has been engaged in the contracting business under the present firm name, and the name of the state where incorporated.

(e) Bidder shall be able to provide a list of the property and equipment available to the Bidder.

(f) Bidder shall be able to provide a financial statement demonstrating that the Bidder has the financial resources to meet all obligations related to the Work.

(g) Bidder shall maintain insurance policies with the coverages required by the Contract, and with the minimum limits of coverage required by the Contract. Bidder shall be able to provide current certificate(s) of insurance for the

insurance policies held by Bidder, demonstrating that Bidder holds insurance policies with the coverages required by the contract, and with the minimum limits of coverage required by the Contract.

(h) Bidder shall have constructed a minimum of three (3) projects of a similar nature in the immediate past five (5) years. Bidder shall be able to provide a list of all projects of a similar nature constructed by Bidder in the immediate past five (5) years, which list shall contain the minimum of three (3) such projects, which list shall provide a description and the location(s) of all such projects, and shall contain the Bidder's performance record and references, as well as the names and current contact information, including addresses and telephone numbers, of persons who acted as owners' representatives for those projects and who have knowledge of those projects, and whom Bidder agrees the Village may contact for the purpose of verifying Bidder's performance and references.

(i) Bidder shall be able to provide a list of three (3) references (name, address and telephone number) with knowledge of the integrity and business practices of the bidder. Such references may not be persons who have been employed by Bidder as employees.

(j) Bidder shall be able to provide a list of projects presently under Contract, the awarded Contract amount of each, the approximate adjusted Contract amount of each (if applicable), and the dollar amount or percent of completion of each.

(k) Bidder shall be able to provide a list of Contracts which have resulted in lawsuits, whether against Bidder as a prime contractor, against Bidder as a subcontractor, or against Bidder as a party in any other capacity; or against subcontractors or suppliers performing work for Bidder or under Contract held by Bidder.

(l) Bidder shall be able to provide a list of Contracts defaulted.

(m) Bidder shall be able to provide a statement indicating whether or not Bidder has ever filed bankruptcy.

(n) Bidder shall be able to provide a list of all officers of the firm, which list shall also indicate those officers who, while in the employ of the firm or in the employ of previous firms, were associated with Contracts which resulted in lawsuits, Contracts defaulted, or firms which filed for bankruptcy.

(o) Bidder shall maintain personnel guaranteed to be employed in the responsible charge of the Work, which personnel possess sufficient technical experience to ensure the satisfactory completion of the Work. Bidder shall be

able to provide the names and technical experience of such personnel, as well as statements as to whether the personnel have or have not performed satisfactorily on other contracts of like nature and magnitude or comparable difficulty at similar rate of progress.

(p) Bidder shall be able to provide a list of subcontractors and suppliers anticipated to be employed by Bidder for the purpose of completing the Work, including the firm name, street address and description of place of business; mailing address of business (if different); phone, fax and e-mail contact information of business; name of primary contact; and a list of any projects or contracts for which Bidder currently owes monies to said firm, which list shall include a description of the project or contract, the amount currently due to said firm, the period of time for which those monies have been owed, and the expected date of payment of those monies.

(q) Bidder shall participate in active apprenticeship and training programs approved by and registered with the United States Department of Labor Bureau of Apprenticeship and Training for each of the trades of work contemplated under the Contract. Bidder shall be able to provide evidence of Bidder's participation in such apprenticeship and training programs.

(r) Bidder shall only employ subcontractors who meet the requirements prescribed in this section and other sections of these specifications.

(s) Bidder shall be able to provide such other information as may assist the Village in determining whether the Bidder is adequately prepared to fulfill the Contract.

These requirements and qualifications are not intended to discourage bidding, to make it difficult for qualified Bidders to submit Bids, or to discourage beginning contractors. The purpose of these requirements and qualifications is to allow the Village to obtain sufficient information about Bidder's financial state, available equipment, personnel, and previous work experience so that the Village may mitigate the hazards involved in awarding contracts to parties who may not be qualified to perform the Work as specified.

A copy of Village of Villa Park Ordinance No. 3733, amending the requirements of bidders for construction projects, is provided as Appendix B.

## IDOT PRE-QUALIFICATION

**Bidder proposing to perform storm sewer trenching and installation work shall be IDOT Pre-Qualified for 012 – Drainage ($4,000,000 minimum).**

Prequalification by IDOT will be required of all subcontractors on this project in the respective discipline(s) they will be responsible for constructing. The Village may choose to waive this requirement if, in the Village's determination, the contractor has demonstrated the ability to perform work of a similar nature and scope to that set forth in this contract.

## BID PRICE LIMITATIONS

The bid price for TRAFFIC CONTROL AND PROTECTION shall not exceed 5 percent of the total bid price. If the bid price for TRAFFIC CONTROL AND PROTECTION exceeds 5 percent of the total bid price, the Village may reject the Bid.

The bid price for CONSTRUCTION LAYOUT shall not exceed 2 percent of the total bid price. If the bid price for CONSTRUCTION LAYOUT exceeds 2 percent of the total bid price, the Village may reject the Bid.

The bid price for PRE-CONSTRUCTION VIDEO RECORDING shall not exceed 1 percent of the total bid price. If the bid price for PRE-CONSTRUCTION VIDEO RECORDING exceeds 1 percent of the total bid price, the Village may reject the Bid.

The bid price for POST-CONSTRUCTION SEWER TELEVISING shall not exceed 1 percent of the total bid price. If the bid price for POST-CONSTRUCTION SEWER TELEVISING exceeds 1 percent of the total bid price, the Village may reject the Bid.

The bid price for SITE DEWATERING shall not exceed 1 percent of the total bid price. If the bid price for SITE DEWATERING exceeds 1 percent of the total bid price, the Village may reject the Bid.

Bidder, in submitting a Bid, certifies that the Bid is in compliance with these requirements. The Village's determination as to whether or not to reject a Bid that does not comply with these requirements will be final, and Bidder, in submitting a Bid, agrees to be bound by that determination.

## BIDS TO REMAIN SUBJECT TO ACCEPTANCE

All bids shall remain subject to acceptance by the Village for a period of 90 calendar days from the date of the bid opening. The Village may extend the acceptance period by up to an additional 90 calendar days upon written notice to all bidders by the Village. The Village may, in its sole discretion, release any bid and return the bid bond prior to the end of the acceptance period.

## SUBCONTRACTING

Add the following to the end of the first paragraph of Article 108.01 of the Standard Specifications:

"Should Contractor fail to respond to such request for proof from Engineer or should Engineer determine that Contractor's response to such request is not sufficient to prove that a proposed subcontractor has the experience, ability, and equipment the work requires, Engineer may prohibit the employ of said subcontractor."

Add the following paragraph to the end of Article 108.01 of the Standard Specifications:

"The apparent low Bidder shall submit to Owner within 7 calendar days after the receipt of bids, a list of the names of Bidder's proposed subcontractors and material suppliers along with a description of the work to be performed or the materials to be supplied by each."

## PROGRESS SCHEDULE

Revise Article 108.02 of the Standard Specifications to read:

After the award of the contract and prior to starting work, the Contractor shall submit to the Engineer a satisfactory progress schedule or critical path schedule which shall show the proposed sequence of work, and how the Contractor proposes to complete the various items of work within the number of calendar days set up in the contract or on or before the completion date specified in the contract.

Work will not be permitted to start until a progress schedule has been submitted and approved. The contract time will commence to run in accordance with the contract documents regardless of whether a progress schedule has been submitted or approved. If the contract time has commenced to run and a progress schedule has not been submitted, the contract time will continue to run until the day that a progress schedule is submitted. The contract time will be suspended upon submittal of a progress schedule and while such progress schedule is under review. The contract time will resume to run upon provision of a response by the Engineer to the submitted progress schedule, regardless of whether such response is approval or rejection.

The progress schedule shall be used as a basis for establishing the controlling item of construction operations and for checking the progress of the work. The controlling item shall be defined as the item which must be completed either partially or completely to permit continuation of progress. It shall be the responsibility of the Contractor to show the intended rate of production for each controlling item listed on the schedule during the period such item is controlling.

The Contractor shall confer with the Engineer at regular intervals in regard to the prosecution of the work according to the progress schedule or critical path schedule.

If at any time the actual progress is ten or more calendar days behind the proposed progress shown on the approved schedule, the Engineer will select the controlling item of work for the purpose of checking the progress of the work. In such cases the Contractor shall submit a satisfactory revised progress schedule or revised critical path schedule. The Engineer will continue to determine the controlling item until the Contractor has submitted a satisfactory revised progress schedule or revised critical path schedule and such schedule has been approved.

Payment under this contract may be withheld if, at any time, a satisfactory and approved progress schedule is not in place.



## INSURANCE

Insurance and indemnification shall be in accordance with applicable sections of the Standard Specifications, and shall also be in accordance with the "IRMA Contractual Insurance Guidelines", incorporated herein as Appendix A. The Contractor shall name the Village of Villa Park, Christopher B. Burke Engineering, Ltd., and the Illinois Environmental Protection Agency (IEPA), its officials, agents, employees and volunteers as additional insureds. If a conflict is determined to exist between the requirements prescribed in the Standard Specifications and the requirements prescribed in the IRMA Contractual Insurance Guidelines, such conflict will be resolved as follows:

a. If a particular type of insurance coverage is required by one standard but not by both, that type of insurance coverage will be required.

b. If the minimum limits of insurance coverage required by one standard differ from those required by the other standard, the higher minimum limits of insurance coverage will prevail.

c. If any other conflicts are determined to exist between the requirements prescribed in the two standards, the stricter of the two requirements will prevail. The Village will make the final determination as to what constitutes a stricter requirement.

Contractor shall provide a Certificate of Insurance prior to execution of Contract. Such Certificate of Insurance shall list the Village of Villa Park as Certificate Holder and shall also name the following entity or entities as additional insureds:

Village of Villa Park

Certificate of Insurance shall include a CG5036 Additional Insured Endorsement.

## PERMITS

The Contractor shall be responsible for obtaining applicable licenses, complying with all permits and completing all work in accordance with their provisions. The Village of Villa Park shall be responsible for obtaining the following permits. No person shall construct, install, or repair any items within the Village limits unless such person has first obtained or verified to have been obtained by the Village the following permits and licenses:

1. Water main construction permit from the Illinois Environmental Protection Agency
2. Sanitary sewer construction permit from the Illinois Environmental Protection Agency
3. NPDES ILR10 Permit from the Illinois Environmental Protection Agency
4. Outfall Modification Permit from the Illinois Environmental Protection Agency
5. DuPage County Countywide Stormwater and Floodplain Ordinance Permit

All work and costs associated with completing the work in accordance with the permits listed above shall be considered included in the cost of the proposed work. No additional compensation shall be made.

## INCREASED OR DECREASED QUANTITIES

The Village reserves the right to increase or decrease the amount of work shown in the plans in accordance with Section 109 of the Standard Specifications.

## MOBILIZATION

Mobilization shall be in accordance with Section 671 of the Standard Specifications, except as modified herein.

Revise Article 671.02, Basis of Payment, to read:

"**671.02 Basis of Payment.** This work will not be paid for separately but shall be included in the unit bid prices of the items for which this work applies."

## WINTER WORK

If Contractor elects to begin any site work before or during winter, no additional compensation will be granted for any costs or delays incurred by the Contractor as a

result of winter weather. The Contractor shall be responsible for the implementation and cost of any winter shutdown provisions which are deemed necessary by the Engineer.

## PORTABLE TOILET

Contractor shall furnish a portable toilet meeting Federal, State and local health department requirements stocked with lavatory and sanitary supplies at all times. The portable toilet shall be provided at a location approved by the Engineer. The portable toilet shall be maintained in a clean and sanitary condition and shall be emptied as needed. This work will not be paid for separately but shall be included in the cost of the contract.

## CONFLICTS WITH UTILITIES

Conflicts with utilities shall be in accordance with Article 107.40 of the Standard Specifications, except as modified herein.

Add the following after the first paragraph of Article 107.40 of the Standard Specifications:

"Unless otherwise specified in the contract documents, utility facilities which are encountered during construction operations and are not in direct conflict with a proposed utility to be constructed under this contract shall be left undisturbed in place and shall be protected by the Contractor against damage and the interruption of utility services as a result of construction operations."

## CONTRACT TIME

The work shall achieve substantial completion within **210 calendar days** unless additional time is granted in accordance with the specifications.

Substantial completion shall be defined as the completion of, at a minimum, underground utility work, roadway excavation, aggregate subgrade improvements, aggregate base course placement, concrete curb and gutter installation, binder course placement, driveway pavement placement, sidewalk removal and replacement, grading of parkways, placement of topsoil, and such other items of work as may be identified by the Engineer.

The work shall achieve final completion in accordance with the special provision FINAL INSPECTION.

No allowance will be made for delay or suspension of the work due to the fault of the Contractor.

## WORKING DAYS

Remove Article 108.04 of the Standard Specifications in its entirety.

## FAILURE TO COMPLETE THE WORK ON TIME

Replace the table in Article 108.09 of the Standard Specifications with the following:

| Schedule of Deductions for Each Day of Overrun in Contract Time | | | |
|---|---|---|---|
| Original Contract Amount | | Daily Charges | |
| From More Than | To and Including | Calendar Day | Work Day |
| $ 0 | $ 100,000 | $ 2,000 | $ 2,800 |
| 100,000 | 500,000 | 3,000 | 4,200 |
| 500,000 | 1,000,000 | 4,000 | 5,600 |
| 1,000,000 | 3,000,000 | 5,000 | 7,000 |
| 3,000,000 | 6,000,000 | 6,000 | 8,400 |
| 6,000,000 | 12,000,000 | 9,000 | 12,600 |
| 12,000,000 | And over | 25,000 | 35,000 |

Add the following paragraph to the end of Article 108.09 of the Standard Specifications:

"Liquidated damages will be charged for each day of overrun in both substantial completion deadlines and final completion deadlines."

## MONIES DUE TO OWNER

Should Contractor be subject to fines, deductions, reimbursements, liquidated damages, or other monies due to Owner, the cost thereof may be deducted from any monies due or to become due the Contractor under this contract or any other contract between the Owner and the Contractor. Bidders and Contractor, in submitting Bids, acknowledge this requirement and agree to be bound by it.

## PARTIAL PAYMENTS

Add the following after the first paragraph of Article 109.07(a) of the Standard Specifications:

"Owner will deduct from the amount so determined for the completed work a sum of ten percent to be retained until the final payment. Owner may, at its discretion, reduce the percentage of such retention prior to the final payment, but in no event shall the amount retained be reduced to less than ten percent prior to substantial completion, nor shall such retention be reduced to less than two percent or less than $5,000.00 prior to the final payment.

## WORKING HOURS

Working hours will be between 7:00 A.M. and 5:00 P.M., Monday through Friday, excluding holidays as designated by the Contract.

Contractor will not permit the performance of Work outside these working hours without Owner's written consent, which may be given after prior written request to Engineer, except as otherwise required for the safety of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents.

If Contractor permits the performance of Work outside these working hours, Contractor will compensate Owner for the costs of inspection and other services provided by Engineer. Owner will determine the rates at which such inspection and other services are to be compensated. Owner will determine the interval or intervals at which billing will take place, and may, at Owner's discretion, submit invoices for payment to Contractor, or deduct the costs from any monies due or to become due to the Contractor from Owner.

## HOLIDAYS

Revise the list of legal holidays in Article 107.09 of the Standard Specifications to read:

New Year's Day
Easter
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
*Thanksgiving Friday*
*Christmas Eve*
Christmas Day
*New Year's Eve*

## PUBLIC CONVENIENCE AND SAFETY (D–1)

Effective: May 1, 2012
Revised: July 15, 2012

Add the following to the end of the fourth paragraph of Article 107.09:

> "If the holiday is on a Saturday or Sunday, and is legally observed on a Friday or Monday, the length of Holiday Period for Monday or Friday shall apply."

Add the following sentence after the Holiday Period table in the fourth paragraph of Article 107.09:

> "The Length of Holiday Period for Thanksgiving shall be from 5:00 AM the Wednesday prior to 11:59 PM the Sunday After"

Delete the fifth paragraph of Article 107.09 of the Standard Specifications:

> "On weekends, excluding holidays, on roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical."

## OPERATION OF WATER DISTRIBUTION FACILITIES

Contractor shall not operate any water distribution facilities, including, but not limited to, valves or hydrants. If Contractor requires the operation of such facilities, Contractor shall provide a minimum of 48 hours notice to the Village and the Village will operate such facilities.

## CONSTRUCTION SAFETY AND HEALTH STANDARDS

It is a condition of this contract and shall be made a condition of each subcontract entered into pursuant to this contract that the Contractor and any Subcontractor shall not require any laborer or mechanic employed in performance of that contract to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous to their health or safety, as determined under Federal Construction Safety and Health Standards.

## FINAL INSPECTION

Final inspection shall be in accordance with Article 105.13 of the Standard Specifications, except as modified herein.

Revise the second paragraph of Article 105.13, Final Inspection, to read:

"If the inspection discloses any work, in whole or in part, as being unsatisfactory, the Engineer will give the Contractor the necessary instructions for correction of same, and the Contractor shall comply with such instructions within 14 calendar days of receipt of such instructions. The Contractor shall give the Engineer not less than 48 hours notice, in writing, prior to beginning any such corrective work. Upon completion of all corrective work, the Contractor shall give the Engineer notice in writing. Upon receipt of such notice, the Engineer will make another inspection which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Engineer will notify the Contractor in writing of the date of final inspection."

## MAINTENANCE WARRANTY

The Contractor shall execute and deliver to the Village, before final payment will be issued, a written warranty, in a form satisfactory to the Village, which guarantees that all work is in accordance with the contract and will not be defective. This warranty shall guarantee all work for a period of 1 year from the date of final inspection.

The Contractor shall furnish a warranty bond in an amount equal to 10 percent of the final contract amount, or $400,000, whichever is greater, by a surety satisfactory to the Village to guarantee Contractor's warranty to repair defective work.

If, within the warranty period, the Village determines any work to be defective, a written notice of such deficiency will be sent to the Contractor by certified mail.

The Contractor shall, within 14 calendar days of receipt of the notice of deficiency, and without cost to the Village, correct or repair such defective work, or remove and replace the defective work in accordance with the contract requirements for the item or items in question.

If Contractor desires an extension of time to complete the corrective work, Contractor shall make such request in writing within 10 calendar days of receipt of the notice of deficiency. After the Contractor has filed a request for an extension of time, the Village will notify the Contractor, in writing, whether or not such extension will be approved.

Should the Contractor fail to complete the corrective work within the 14 calendar days or within such extended time as may have been allowed, the Contractor shall be liable and shall pay to the Village the amount shown in the Schedule of Deductions for Each Day

of Overrun in Contract Time, not as a penalty but as liquidated damages, for each day of overrun beyond the 14 calendar days or such extended time as may have been allowed.

## 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”.

## KEEPING ROADS OPEN TO TRAFFIC

All roads shall remain open to traffic unless otherwise shown on the contract plans or approved by the Village. When necessary to close one lane because of construction, the Contractor shall maintain one-way traffic during construction hours with the use of signs and flaggers as shown on the Traffic Control Standards. Two lanes of traffic will be maintained during nights and weekends when no construction activities are being carried on. The Contractor shall backfill all trenches, excavations and open holes level with adjacent grades or cover the openings with steel plates at the end of each working day. Temporary stone shall be maintained as necessary between the time of backfill and placement of permanent pavement. No separate payment shall be made for any additional backfilling materials or steel plates required to keep the roads open to traffic.

## WINTER WORK

If Contractor elects to begin any site work before or during winter, no additional compensation will be granted for any costs or delays incurred by the Contractor as a result of winter weather. The Contractor shall be responsible for the implementation and cost of any winter shutdown provisions which are deemed necessary by the Engineer. All driveways and sidewalk shall be permanently restored, and any trenches

in the roadway shall be restored with temporary patching (at a minimum) prior to any winter shutdown unless approved in writing by the Engineer.

## RESPONSIBILITY FOR VANDALISM

The Contractor shall be responsible for the protection of all equipment and materials. Any equipment or materials which are stolen, missing, damaged or vandalized shall be the Contractor's responsibility to repair or replace as needed at no additional cost to the contract.

The Contractor shall be responsible for the defacement of any concrete pours before they have set up. Concrete pavement, sidewalk, driveway, or curbing that has been defaced, in the opinion of the Engineer, shall be removed and replaced by the Contractor at Contractor's expense.

## WORK ON COLLECTOR STREETS

Streets in the following list shall be defined as collector streets within and including the limits of the termini indicated. Streets that do not have termini identified shall be considered to be collector streets throughout their entire length within the limits of the Village of Villa Park.

| | | |
|---|---|---|
| Addison Road (St. Charles Road to Armitage Avenue) | Ardmore Avenue (IL Route 38 to Twin Lakes Park) | Armitage Avenue |
| Harrison Street (Ardmore Avenue to Villa Avenue) | Harvard Avenue (Jackson Street to St. Charles Road) | High Ridge Road |
| Highland Avenue (Ardmore Avenue to IL Route 83) | Jackson Street | Lincoln Avenue (Vermont Street to IL Route 64) |
| Madison Street | Pleasant Avenue | Plymouth Street |
| Riordan Road (Ardmore Avenue to Villa Avenue) | St. Charles Road | Summit Avenue (IL Route 38 to Kenilworth Avenue) |
| Sunset Drive (Westwood Avenue to Addison Road) | Vermont Street | Villa Avenue |
| Washington Street | Westmore Avenue (Terrace Street to IL Route 64) | |

Where work takes place in or on a collector street as defined above, all trenches, excavations, street openings, and other work located within the limits of the pavement

shall be either covered with steel plates or capped to finished grade with cold-mix asphalt at the end of each workday until and after such underground utility work is complete.

Upon completion of such underground utility work in or on a collector street, final pavement restoration shall be completed within 7 calendar days. Final pavement restoration shall be completed without additional costs for mobilization.

Engineer may, at Engineer's discretion, waive the requirement that surface course be place within the 7 calendar days, in which case Contractor shall place and maintain Bump signs at the location until final surface paving is completed.

## PROGRESS MEETINGS

Construction progress meetings will be held on a weekly basis beginning when the contract time commences to run and continuing until the project achieves final completion. Owner may, at its discretion, reduce the frequency of such meetings or cancel any or all such meetings. Contractor's representative in responsible charge of the work shall be present at all scheduled progress meetings. If Contractor's representative is not present at one or more scheduled progress meetings, Contractor shall compensate Owner for the costs of attendance of such meetings by Owner's and Engineer's representatives. Owner will determine the rates at which such attendance is to be compensated. Owner will determine the interval or intervals at which billing will take place, and may, at Owner's discretion, submit invoices for payment to Contractor, or deduct the costs from any monies due or to become due to the Contractor from Owner.

## USE OF FIRE HYDRANTS

Revise Article 107.18, Use of Fire Hydrants, of the Standard Specifications to read:

"**107.18 Use of Fire Hydrants.** If Contractor requires water for the completion of construction operations, and desires to obtain water from the Village, the Contractor shall make written application to the Village. If such application is approved by the Village, the Contractor shall obtain water from the fire hydrant located at 100 West Home Avenue, adjacent to the Village of Villa Park Fleet Maintenance Garage. Contractor's use of said hydrant and methods of obtaining water shall be in compliance with all applicable ordinances, rules, and regulations concerning such use. Contractor shall furnish all labor and equipment necessary to make a connection to said hydrant, and to obtain and transport water.

Prior to obtaining water, Contractor shall make written application to the Village for temporary use of a hydrant meter. If the application for temporary use of a hydrant

meter is approved, the Contractor shall provide a deposit of three-thousand dollars ($3,000.00) to the Village for the temporary use of said hydrant meter, which deposit will be held by the Village until such time that the meter is returned to the Village by the Contractor in satisfactory condition. Contractor shall use said hydrant meter when obtaining water, and shall comply with all conditions for the use of said meter. Contractor shall return the hydrant meter to the Village within 24 hours of project completion and within 24 hours of any request by the Village that the hydrant meter be returned.

If Contractor makes application for temporary use of a hydrant meter and the application is not approved, Contractor shall make record of the quantity of water obtained, along with the date and time obtained, and shall report such information after each use to the Village of Villa Park Public Works Department, 11 West Home Avenue. If such use takes place outside of the normal working hours of the Public Works Department, Contractor shall report such information immediately upon the commencement of normal working hours.

Contractor shall not use, operate or obtain water from any hydrants other than the hydrant prescribed. Contractor shall not obtain water from the Village for construction operations or activities not under contract with the Village.

If a water main break occurs and the Village determines that the water main break is a result of Contractor's use of a hydrant, the Village may require the Contractor to repair the water main break in accordance with all applicable construction standards and requirements and at no cost to the contract, or may repair the water main break by other means and invoice the Contractor for reimbursement of the Village's costs.

Water usage will be measured according to the Special Provisions WATER USAGE DEDUCTION and WATER USAGE CREDIT."

## TREE CARE

Tree care work shall be defined as all tree pruning, tree root pruning, tree planting, tree assessment, and tree remediation. All tree care work shall be in accordance with Section 201 of the Standard Specifications, except as modified herein.

All tree care work shall be performed by an ISA Certified Arborist or shall be performed under the direct supervision of an ISA Certified Arborist. The certified arborist shall submit a copy of their current and valid certificate to the Owner prior to any tree care work taking place. The certified arborist whose certificate is provided shall be on site at all times when tree care work is taking place. All such tree care work shall either be performed by the certified arborist or shall be performed under the direct supervision of the certified arborist.

## TREE DAMAGE

If any trees are damaged during the project that are not marked on the plans for removal, the Contractor shall obtain and file with the Village a tree assessment of the damaged trees. The tree assessment shall detail the health and condition of the damaged trees and shall provide a recommendation for or against retention of each affected tree. The tree assessment will not be paid for.

When, in the opinion of the Village, a tree assessment obtained by the Contractor does not represent an independent evaluation, the Village may direct the Contractor to obtain a second tree assessment of the damaged trees and may provide the Contractor with a list of not less than two ISA Certified Arborists, from which list the Contractor shall select one for completion of the second tree assessment. The second tree assessment, if so directed, will not be paid for.

When multiple tree assessments are obtained, it will be the opinion of the Village as to which tree assessment is utilized for the purposes of addressing the remaining requirements of this section. Further references to the tree assessment in this section shall refer to the tree assessment selected by the Village.

If the tree assessment results in a recommendation for retention of an affected tree, the Contractor shall perform tree remediation of the affected tree as follows.

Trees subject to tree remediation will be fertilized and treated with Paclobutrazol. Treatment shall consist of air spading 2 holes for every 3 sq. ft. of area within the dripline of the tree to a depth of 12 in. to 18 in. and backfilling with Biochar.

If a tree subject to tree remediation is an Oak or an Elm species and the damage occurred between the dates of April 15 and October 15, then in addition to the Paclobutrazol treatment specified herein, the damage to the tree will be sealed in a manner approved by the Engineer.

The Owner may require the Contractor to perform additional methods of tree remediation or methods of tree remediation different from those listed if recommended by the tree assessment or deemed appropriate by the Owner.

Tree remediation will not be paid for.

If the tree assessment results in a recommendation against retention of an affected tree, the Contractor shall remove the affected tree. Should removal of the affected tree result in any additional damage to the site or result in the need for any additional restoration, Contractor shall repair or replace the damage or perform the restoration as deemed necessary by the Engineer. This work shall be in accordance with Article 201.04 of the Standard Specifications, except that the work will not be paid for.

If a tree not marked on the plans for removal is to be removed due to damage, a deduction will be applied to monies due or that might become due the Contractor. This Tree Damage Deduction will be applied as follows.

Trees to be removed due to damage will be measured per unit of diameter where one unit is equal to 1 in. The diameter will be measured at a point 4.5 ft. above the highest ground level at the base of the tree and will be determined by dividing the measured circumference of the tree by 3.1416.

If the tree had tree protection installed at the time of damage and if, in the opinion of the Village, the tree protection was correctly installed at the time of damage, the Tree Damage Deduction will be $300 per unit of diameter of the tree.

If the tree did not have tree protection installed at the time of damage or if, in the opinion of the Village, the tree protection was not correctly installed at the time of damage, the Tree Damage Deduction will be $800 per unit of diameter of the tree.

If a tree not marked on the plans for removal is to be removed due to damage, then in addition to the Tree Damage Deduction, Contractor shall also furnish and plant a tree of a species and caliper selected by the Owner at a location determined by the Owner. This work shall be in accordance with Section 253 of the Standard Specifications, except that the work will not be paid for.

## TRENCH BACKFILL AND PIPE BEDDING

All trench backfill and pipe bedding materials furnished under this contract shall be virgin, non-recycled materials.

All trench backfill shall be crushed aggregate of CA-6 gradation. The aggregate material shall be placed in lifts not exceeding 8 in. in depth, loose measurement, and compacted by mechanical means to the satisfaction of the Engineer.

All pipes installed under this contract shall be placed on a bedding of crushed aggregate of CA-7 or CA-11 gradation having a minimum thickness of 4 in. The bedding shall be placed to a minimum of 12 in. above the top of the pipe and any fittings.

The cost of furnishing and installing pipe bedding materials will not be paid for separately but shall be included in the cost of items to which this work pertains.

## EXCAVATION AND BACKFILLING OF DRAINAGE AND UTILITY STRUCTURES

Excavation, bedding and backfilling of drainage and utility structures which are constructed, reconstructed, or adjusted as a part of this contract will not be paid for separately but shall be included in the cost of the items to which this work pertains.

## BITUMINOUS MATERIALS

Prime coat will not be applied on aggregate bases as a part of this contract.

Tack coat shall be in accordance with the pay item special provision BITUMINOUS MATERIALS (TACK COAT).

## PORTLAND CEMENT CONCRETE PAVEMENTS AND SIDEWALKS

Where forms are to be used for the installation of concrete, all such forms shall be wood.

Wood forms for all concrete installation shall be of a width that exceeds the required thickness of the concrete being installed

## SALVAGE AND DISPOSAL OF EXISTING MATERIALS

Existing manufactured materials which are removed and are not to be reused, including, but not limited to, frames, grates, lids, castings, sign posts, sign panels, fire hydrants, valves, stops, and fittings, shall remain the property of the Village unless the Engineer waives this requirement as specified herein.

Existing manufactured materials which are removed and are not to be reused will be inspected by the Engineer. Materials which are determined by the Engineer to be in satisfactory condition shall remain the property of the Village and shall be delivered by the Contractor to the Village of Villa Park Public Works Department yard located at 51 South Ardmore Avenue in Villa Park. Delivery shall be made during the normal working hours of the Village of Villa Park Public Works Department and the Contractor shall coordinate the day, time, and other details of delivery with the Village.

Materials which are determined by the Engineer to be in unsatisfactory condition shall become the property of the Contractor and shall be removed from the site by the end of the workday and properly disposed of by the Contractor.

The delivery or disposal of materials will not be paid for separately but shall be included in the cost of all items that include removal of existing materials.

## FRAMES, GRATES AND LIDS

Frames, grates, lids and all other castings furnished under this contract shall be in accordance with Section 602 and Section 604 of the Standard Specifications, except as modified herein.

Castings shall conform to ASTM A48 Class 30. Castings shall be free of cracks, holes, swells, cold shuts, and patches. Castings shall not be coated or painted.

Frames, grates, lids and other castings shall be furnished in accordance with the following:

Type 1 frames and closed lids shall be Neenah R-1713 self-sealing or approved equal.

Type 1 frames and open lids shall be Neenah R-1713 or approved equal.

Type 11 frames and grates located in barrier curb and gutter shall be Neenah R-3281-A with curb box or approved equal.

Type 11 frames and grates located in depressed curb and gutter shall be Neenah R-3281-A with depressed curb grate or approved equal.

All other castings not specified above shall be as shown on the plans or as directed by the Engineer. If any of the castings specified are not compatible in the field due to frame height or other constraints, the Contractor shall propose an alternate casting to the Engineer for approval and shall furnish the alternate casting if approved.

Frames, grates, lids and other castings located within curb ramps or crosswalks shall be substituted with ADA compliant castings.

All closed lid castings furnished under this contract shall be self-sealing, gasketed, watertight, and shall have machined bearing surfaces and concealed pick holes. The top surface of all closed lids shall be embossed with the words “VILLAGE OF VILLA PARK”. The top surface of closed lids shall also be embossed with the word “SANITARY”, “STORM”, or “WATER” as appropriate.

Enviro-curb logos on curb boxes for Type 11 frames and grates shall have the words “DUMP NO WASTE” and “DRAINS TO RIVER” or “DRAINS TO WATERWAY” cast into the top of all curb boxes.

This work will not be paid for separately but shall be included in the cost of all pay items that include the furnishing of frames, grates, lids, or other castings.

## ADJUSTING RINGS

All drainage and utility structures which are constructed, reconstructed, or adjusted as a part of this contract shall have adjusting rings installed between the topmost section of the structure and the casting.

Each structure shall be fitted with a minimum of one adjusting ring and a maximum of two adjusting rings. The topmost adjusting ring on each structure shall be rubber. The second adjusting ring on each structure, if needed, shall be precast concrete with steel reinforcement. The total height of all adjusting rings on a single structure shall be a minimum of 2 in. and a maximum of 12 in.

The mating faces of adjusting rings shall be smooth, parallel, and free of cracks, chips, spalling, or casting irregularities. Rubber mastic shall be installed between each joint.

Adjusting rings will not be paid for separately but shall be included in the cost of the items to which this work pertains.

## DATE OF MANUFACTURE

Revise the second paragraph of Article 106.01 of the Standard Specifications to read:

"All materials to be permanently incorporated in the work, including, but not limited to, frames, grates, lids, castings, fire hydrants, pipe, drainage and utility structures, valves, stops, fittings, and hardware, shall have been manufactured no earlier than January 1 of the calendar year in which they are to be installed unless otherwise specifically prescribed in the contract documents."

## PROTECTION OF EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION

Unless otherwise noted in the contract plans, the existing drainage facilities shall remain in use during the period of construction.

Locations of existing drainage structures and sewers, if shown on the contract plans, are approximate. Prior to commencement of work, the Contractor, at his/her own expense, shall determine the exact location of existing structures which are within the proposed construction site.

All drainage structures are to be kept free from any debris resulting from construction operations. All work and materials necessary to prevent accumulation of debris in the drainage structure resulting from construction operations shall be removed at the Contractor's own expense, and no extra compensation will be allowed.

Unless reconstruction or adjustment of an existing manhole, catch basin, or inlet is called for in the contract plans or ordered by the Engineer, the proposed work shall meet the existing elevations of these structures. Should reconstruction or adjustment of a drainage structure be required by the Engineer in the field, the necessary work and payment shall be done in accordance with Section 602 and Article 104.02 respectively, of the Standard Specifications.

Existing frames and grates are to remain unless otherwise noted in the contract plans or as directed by the Engineer. Frames and grates that are missing or damaged prior to construction shall be replaced. The type of replacement frame or grate shall be determined by the Engineer, and replacement and payment for same shall be in accordance with Section 604 and Article 104.02 respectively, of the Standard Specifications unless otherwise noted in the plans or special provisions.

## DROP HAMMERS

The use of drop hammers or similar equipment will not be permitted.

## ABANDON EXISTING SEWERS AND WATER MAIN

This work shall consist of the abandonment of portions of existing sewers and water main as shown on the plans and as directed by the Engineer to construct the proposed improvements.

Existing water main shall be abandoned only after all new water services have been transferred over to the new main and the new main is in operation.

Existing sewers and water main to be abandoned shall be drained of all water and shall be plugged at both ends with a minimum of two (2) feet of non-shrink concrete/mortar plugs to the satisfaction of the Engineer. Pumping access points shall be at the proposed excavation locations.

This work shall not be paid for separately, but shall be included in the cost of the proposed items of work.

## WATER MAIN REMOVAL

This work shall consist of the removal of existing water main that are in direct conflict with the proposed improvements. Existing water main that are to be taken out of operation but are not in conflict with the proposed improvements shall be abandoned as specified for ABANDON EXISTING WATER MAIN.

This work shall be completed in accordance with applicable portions of Section 551 of the Standard Specifications, except that the material shall not be salvaged, but shall be disposed according to Article 202.03 of the Standard Specifications. All diameters of water main to be removed will be covered under this item. This work shall also include any necessary sawcutting of the existing water main and the removal and disposal of valves, valves boxes, tees, and other appurtenances (excluding fire hydrants).

The ends of the existing water main shall be plugged as specified for ABANDON EXISTING SEWERS AND WATER MAIN.

Trenches resulting from the removal of water main shall be backfilled in accordance with the applicable requirements of Article 550.07. Backfill of removal trenches (including Trench Backfill) shall be included in this item.

This work shall not be paid for separately, but shall be included in the cost of the proposed items of work.



## EXISTING SEWER REMOVAL

This work shall consist of the removal of existing sewers that are in direct conflict with the proposed improvements. Existing sewers that are to be taken out of operation but are not in conflict with the proposed improvements shall be abandoned as specified for ABANDON EXISTING SEWERS AND WATER MAIN.

Existing sewers shall be removed only as directed by the Engineer. Excavated pipe material shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications.

The ends of the existing sewers shall be plugged as specified for ABANDON EXISTING SEWERS AND WATER MAIN.

Trenches resulting from the removal of sewers shall be backfilled in accordance with the applicable requirements of Article 550.07. Backfill of removal trenches (including Trench Backfill) shall be included in this item.

This work shall not be paid for separately, but shall be included in the cost of the proposed items of work.

## WATER SYSTEM LEAK DETECTION TESTING

Upon completion of all underground utility work, Contractor shall notify Owner, in writing, of such completion. Water system work shall be defined to include, but not be

limited to, installation, replacement, or removal of water main, water valves, water fittings, fire hydrants, or water services.

Upon receipt of such notification from Contractor, Owner may elect to perform water system leak detection testing. If Owner so elects, such testing will be performed at Owner's expense. If, however, Owner elects to perform such testing and such testing identifies one or more leaks in the water system that Owner has cause to believe are the result of Contractor's prosecution of the work, Owner shall so notify the Contractor.

Contractor shall, within seven calendar days, shall further repair all such leaks. Such repair work shall be in accordance with these specifications and with Villa Park Public Works Standards. Leak correction shall be made at the Contractor's expense and no separate payment will be made.



## PLUGGING EXISTING MANHOLES AND PIPES

This work shall consist of plugging holes in manholes where sewer pipes have been removed or abandoned as shown on the plans and as determined by the Engineer. The holes shall be plugged with brick and non-shrink concrete mortar to the satisfaction of the Engineer. The non-shrink concrete mortar shall completely fill the holes and keep all water from entering the manhole. When sewers to be removed or abandoned tie directly into a pipe (including blind connections and services), the pipe shall be plugged with non-shrink concrete mortar to the satisfaction of the engineer. The pipe shall be water-tight, and the inside of the pipe shall be free of excess material that might restrict flow. This work shall not be paid for separately, but shall be included in the cost of ABANDON EXISTING SEWERS AND WATER MAIN or EXISTING SEWER REMOVAL, as the case may be.

## TEMPORARY BULKHEAD FOR FUTURE CONNECTION

This work shall consist of constructing a temporary bulkhead in the upstream end of the proposed 54-inch storm sewer on Washington Street. The bulkhead shall be constructed of brick and mortar (two courses), a steel plate assembly or other methods approved by the Engineer. The bulkhead shall be watertight and capable of withstanding lateral earth pressures. The bulkhead shall be constructed so that it can be removed to facilitate a future storm sewer connection during the subsequent phases of the Washington Street Sewer Separation Project without damaging the proposed storm sewer pipe. The bulkhead shall be constructed to the satisfaction of the Engineer and the pipe shall be free of all debris and excess material that may restrict flow. This work shall be not be paid for separately, but shall be included in the cost of the proposed storm sewer.

## SEWER BYPASS PUMPING

This work shall include control of sewer flows during manhole rehabilitation, installation, and all other construction activities as necessary. The Contractor shall be fully responsible for maintaining sewer service during these operations and shall not be allowed to backup or flood any sewer system user, building, or property. The Contractor shall be solely liable for property damages that result from the work being performed.

Since complete stoppage or bypassing of flow may be required during manhole rehabilitation work, the Contractor may be required to submit drawings and complete design data showing methods and equipment to be utilized in bypass and dewatering operations. The bypass plan shall include the following information:

1. Location of temporary sewer plugs and bypass discharge lines indicated on plans
2. Capacities of pumps, prime movers, and standby equipment
3. Type of standby power source
4. Traffic control plan

When pumping and bypassing is required, the Contractor shall furnish all temporary pumps, conduits, and other equipment to divert the flow of sewage around the sewer section in which work is to be performed. The bypass system shall have sufficient capacity to handle existing flow plus additional flow that may occur during peak flow periods or from precipitation. The Contractor shall construct bypass system of material to prevent leakage during pumping operation.

The Contractor shall maintain sufficient labor, equipment and materials on site to ensure continuous and successful operation of bypass and dewatering systems including the following:

1. Keep standby pumps fueled and operational at all times.
2. Maintain on site sufficient number of valves, tees, elbows, connections, tools, sewer plugs, piping, and other parts or system hardware to ensure immediate repair or modification of any part of system as necessary.
3. Provide piping, joints and accessories designed to withstand at least twice the maximum system pressure or 50 psi (345 kPa), whichever is greater.

In areas where flows are bypassed, all discharge flow shall be returned to the sanitary sewer. No bypassing to ground surface, receiving waters, storm drains, or bypassing which results in groundwater contamination or potential health hazards shall be permitted.

This work shall not be paid for separately but shall be included in the contract unit bid prices for items of work requiring sewer flow control.

## IEPA CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD)

All removal or excavation items being disposed of at an uncontaminated soil fill operation or Clean Construction and Demolition Debris (CCDD) fill site shall meet the requirements of Public Act 96-1416. All costs associated with meeting these requirements shall be included in the unit price cost for the associated removal or excavation items in the contract. These costs shall include but are not limited to all required testing, lab analysis, certification by a licensed professional engineer, and State and local tipping fees.

A copy of signed Illinois Environmental Protection Agency Form LPC 663 and associated reports can be accessed on the Village of Villa Park Public Works Website (www.invillapark.com/196/Public-Works-Department).

The CONTRACTOR is required to submit copies of all dump debris tickets to the ENGINEER.

## PAVEMENT CORE, SOIL BORING, AND WASTE DISPOSAL REPORTS

Pavement cores, soil borings and waste disposal characterization was performed on Monterey Avenue and Highland Avenue by Testing Service Corporation. Summary reports of the pavement core, soil boring, and waste disposal characterization results can be accessed on the Village of Villa Park Public Works Website (www.invillapark.com/196/Public-Works-Department). The summary reports are for informational purposes only. Actual site conditions may vary.

## EXISTING SEWER TELEVISING VIDEO LOGS

The existing sewers in the project area have previously been televised by the Village of Villa Park. The Televising video logs can be accessed on the Village of Villa Park Public Works Website (www.invillapark.com/196/Public-Works-Department). The video logs are for informational purposes only. The CONTRACTOR is responsible for confirming actual field conditions prior to construction.

## PRICE QUOTATIONS AND CHANGE ORDERS

The CONTRACTOR will not be allowed a pre-established percentage rate for overhead and profit with any price quotation, whether initial or a change order. Cost-plus a percentage of cost and percentage of construction cost methods are prohibited from use on this project.

## BRAND NAME POLICY

Neither the OWNER nor CONTRACTOR shall limit materials to only brand-name products. Non-brand name materials of equal specification do qualify and are acceptable.

## MATERIAL AND EQUIPMENT STORAGE

The project site may have limited access and boundary constraints, all of which the Contractor accepts full responsibility. Any staging area(s) for materials, equipment, or other which are required by the Contractor shall be the responsibility of the Contractor.

If necessary, the Contractor shall enter into a separate contract with a private property owner which is outside the scope of this contract.

## PROTECTION OF VILLAGE SCADA SYSTEM

The CONTRACTOR shall be responsible for protecting and/or bracing the existing electrical control box for the Village of Villa Park SCADA system located at the southeast corner of Highland Avenue and Riverside Drive. The control box monitors flows in the adjacent diversion structure, and is powered by the solar panel located approximately 60 feet east of the control box. The SCADA system shall remain active at all times during construction. If necessary, the CONTRACTOR shall provide temporary power to the system using methods approved by the VILLAGE. The existing electrical line powering the system shall be relocated as necessary for construction of the proposed improvements. This work shall not be paid for separately, but shall be included in the cost of the proposed junction chamber.

## CONSTRUCTION NOTICES

It shall be the CONTRACTOR's responsibility to distribute all construction notifications. This work will not be measured for payment but shall be included in the total contract cost. The construction notices shall be reviewed and approved by the ENGINEER prior to being distributed. Notices shall be issued at the following stages:

| | Activity | Notice Period Required |
|---|---|---|
| 1. | Prior to curb and driveway removal. | 3 consecutive days prior |
| 2. | Prior to water and sanitary service Interruption. | 2 consecutive days prior |
| 3. | Prior to pavement removal. | 2 consecutive days prior |
| 4. | Prior to paving. | 2 consecutive days prior |

The CONTRACTOR will also be responsible for distributing and/or redistributing notices in case of any delays due to inclement weather or for any other reason for extended stoppages (i.e. strikes) in the construction schedule.

Notices shall be considered distributed when all affected residents have received notices as well as a copy delivered and/or emailed to Public Works. The copy to Public Works shall be delivered the same day it is distributed to the residents.

Should the CONTRACTOR fail to distribute or post notices per the request of the VILLAGE, the CONTRACTOR shall not be allowed to start work on the given task until proper notification has been provided. No additional contract time will be allowed for compliance with this requirement.

# PAY ITEM SPECIAL PROVISIONS

## PAY ITEM #3 – TREE TRUNK PROTECTION

**Description.** All work shall be in accordance with the applicable portions of Section 201 of the Standard Specifications.

**Materials.** 2 in. x 8 in. x 8 ft boards banded continuously around each trunk to prevent scarring of trees shown on the plans or designated by the Engineer. For multistem trees, saplings, and shrubs to be protected within the area of construction, temporary fencing may be used for trunk protection.

**Method of Measurement.** Tree trunk protection will be measured for payment as each per tree. A tree with from one to three stems with one stem having a diameter of 6 in. or more or a sapling shall be measured as one tree. Tree trunk protection shall include furnishing, installing, and removing this item.

**Basis of Payment.** This work will be paid for at the contract unit price per each for TREE TRUNK PROTECTION.

## PAY ITEM #4 – TREE ROOT PRUNING

**Description.** This work shall consist of performing tree root pruning. This work shall be in accordance with Section 201 of the Standard Specifications, except as modified herein.

Tree root pruning shall be considered tree care work and shall be in accordance with the special provision TREE CARE.

Tree root pruning shall be performed using an approved Vermeer Root Cutter mechanical root pruning saw or approved equal.

Fertilizer nutrients and supplemental watering will not be paid for separately, but shall be included in the cost of TREE ROOT PRUNING.

**Method of Measurement.** This work will be measured for payment as each per tree.

**Basis of Payment.** This work will be paid for at the contract unit price per each for TREE ROOT PRUNING.

## PAY ITEM #8 – TRENCH BACKFILL

**Description.** The provisions of Section 208 of the "Standard Specifications for Road and Bridge Construction" shall be modified such that the material used for trench backfill shall be crushed limestone. The trench backfill shall be compacted only by Method 1, as defined in Article 550.07 of the Standard Specifications, which states the material shall be deposited in uniform layers not exceeding 150 mm (8 in) thick (loose measure), and each layer shall be compacted by ramming or tamping with tools approved by the ENGINEER. Jetting of the trench will not be an acceptable method of compaction. Material used as trench backfill shall be virgin, non-recycled materials.

This work also includes the disposal of the surplus excavated material which is replaced by trench backfill. Such disposal shall be made according to Article 202.03.

**Method of Measurement and Basis of Payment.** This work shall be measured in place and paid for at the contract unit price per cubic yard for TRENCH BACKFILL.

## PAY ITEM #14 – INLET FILTERS

**Description.** This work shall consist of installing, maintaining, and cleaning inlet filters as shown on the plans or as directed by the Engineer. This work shall be in accordance with Section 280 of the Standard Specifications, except as modified herein.

Inlet filters shall consist of metal frames with attached fabric bags. Contractor shall furnish inlet filters of appropriate sizes and shapes necessary to accommodate all different types of drainage structures encountered. The use of filter fabric without a frame will not be an acceptable material for inlet filters and will be rejected.

Contractor shall inspect and clean all inlet filters weekly, after every rainfall, and additionally as needed. Maintenance and cleaning of inlet filters will not be paid for separately but shall be included in the cost of this work.

**Method of Measurement.** This work will be measured for payment as each individual inlet filter installed and the unit of measurement will be each. No measurement will be made of maintenance and cleaning efforts. If an inlet filter is installed on multiple structures the inlet filter will only be measured for payment once.

**Basis of Payment.** This work will be paid for at the contract unit price per each for INLET FILTERS.

## PAY ITEM #16 – BITUMINOUS MATERIALS (TACK COAT)

**Description.** This work shall consist of the preparation and application of bituminous tack coat on concrete or HMA bases prior to HMA placement. This work shall be in accordance with Section 406 of the Standard Specifications, except as modified herein.

Bituminous tack coat shall be placed at least one hour in advance of the placement of HMA, but no more than 48 hours in advance of the placement of HMA. If Contractor places tack coat more than 48 hours in advance of the placement of HMA, the tack coat will not be measured for payment, and Contractor will place tack coat again in accordance with this provision. Tack coat shall not be placed on weekends or on holidays unless permitted by the Engineer. Tack coat shall not be placed before weekends or holidays when placement of HMA is not expected to take place until after the weekend or holiday, unless permitted by the Engineer.

**Basis of Payment.** This work will be paid for at the contract unit price per pound for BITUMINOUS MATERIALS (TACK COAT).

## PAY ITEM #19 & 20 – PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT

**Description.** This work shall consist of placing Portland Cement Concrete driveway pavement on a compacted aggregate base course in accordance with Sections 351 and 423 of the Standard Specifications, and as specified herein.

Residential driveway installation shall include Portland Cement Concrete installed to a minimum thickness of 6-inches and the placement and compaction of 4-inches of Aggregate Base Course, Type B on a compacted subgrade. Commercial driveway installation shall include Portland Cement Concrete installed to a minimum thickness of 8-inches and the placement and compaction of 6-inches of Aggregate Base Course, Type B on a compacted subgrade. The installation of all Aggregate Base Course shall be included in the cost of this item.

If filling is required in the driveway subgrade, it shall consist of placing and compacting an approved granular material to the satisfactions of the ENGINEER. Any required filling shall be included in the cost of this item.

All framing shall be set to final grade of the pour. No angle irons will be allowed. No watering cans shall be allowed on site.

The finish of the driveway shall match the driveway behind of the sidewalk. Where the finish behind the sidewalk is “california” or “letter box”, the contractor shall match this finish on the new apron. It shall be the contractor’s responsibility to verify the finish at each location. Installation of this finish shall be considered included in the cost of this item.

**Method of Measurement and Basis of Payment.** This work shall be measured in place and paid for at the contract unit price per square yard for PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, thickness specified.

## PAY ITEM #21 – PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

**Description.** This work shall consist of placing Portland Cement Concrete sidewalk on a compacted subbase in accordance with Sections 311 and 424 of the Standard Specifications, and as specified herein.

Sidewalk installation shall include Portland Cement Concrete installed to a minimum thickness of 5-inches and the placement and compaction of 4-inches of Subbase Granular Material, Type B on a compacted subgrade. Subbase Granular Material shall be included in the cost of the sidewalk. If filling is required in the sidewalk subgrade, it shall consist of placing and compacting an approved granular material to the satisfaction of the ENGINEER. Sidewalk thickness shall be increased to 6-inches when placed adjacent to driveways. Increasing sidewalk thickness at driveways shall not be paid for separately, but included in the cost of this item.

All framing shall be set to final grade of the pour. No angle irons will be allowed. No watering cans shall be allowed on site.

**Method of Measurement.** Portland Cement Concrete Sidewalk 5-inch shall be measured for payment in place, and the area computed in square feet.

**Basis of Payment.** This work will be paid for at the contract unit price per square feet for PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH.

## PAY ITEM #22 – DETECTABLE WARNINGS

**Description.** This work shall consist of installing detectable warnings. This work shall be in accordance with Section 424 of the Standard Specifications, except as modified herein.

Detectable warnings shall be installed at curb ramps and other locations where pedestrians are required to cross a hazardous vehicular way. Detectable warnings shall also be installed at alleys and commercial entrances where permanent traffic control devices are present.

**Materials.** Detectable warnings shall be pre-cast tiles. Installation shall be cast-in-place. Surface mounted applications will not be permitted. Detectable warnings shall be red in color. Detectable warning tiles shall be either rectangular or radial in

shape as shown on the plans or as directed by the Engineer. The product or products to be used for detectable warnings shall be approved by the Engineer prior to use.

**Construction.** Installation shall be according to the manufacturer's specifications and as directed by the Engineer.

Where a curb ramp is 5 ft. in width or less and a rectangular detectable warning tile is to be used, the installation shall consist of a single detectable warning tile. If a pre-cast detectable warning tile is not manufactured in the width of the curb ramp, a larger detectable warning tile shall be furnished and shall be cut to the width of the curb ramp.

Installation of multiple detectable warning tiles at a single curb ramp will only be permitted where a curb ramp exceeds 5 ft. in width or where radial detectable warning tiles are to be used. Where multiple detectible warning tiles are permitted at a single curb ramp, they shall be mechanically joined prior to installation.

**Method of Measurement.** Detectable warnings will be measured for payment in place and the area computed in square feet.

**Basis of Payment.** This work will be paid for at the contract unit price per square foot for DETECTABLE WARNINGS.

## PAY ITEM #23 – PAVEMENT REMOVAL

**Description.** This work shall consist of the removal and disposal of existing pavement, including all necessary excavation, as shown on the plans or as directed by the Engineer. This work shall be completed in accordance with Sections 202 and 440 of the Standard Specifications, except as modified herein.

Pavement removal shall include the removal of the entire existing pavement section and excavation (including stone, earth, clay, etc.) required to get down to the proper elevation for aggregate base course installation.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for at the contract unit price per square yard for PAVEMENT REMOVAL.

## PAY ITEM #25 – DRIVEWAY PAVEMENT REMOVAL

**Description.** This work shall consist of the removal and disposal of existing driveway pavement, including all necessary excavation, as shown on the plans or as directed by the Engineer. This work shall be completed in accordance with Sections 202 and 440 of the Standard Specifications, except as modified herein.

Driveway pavement removal shall include the removal of existing driveway pavement and base course to the lines and grades shown on the plans and as directed by the Engineer. All excavation and base course removal required shall be included in this item.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for at the contract unit price per square yard for DRIVEWAY PAVEMENT REMOVAL.

## PAY ITEM #26 – COMBINATION CURB AND GUTTER REMOVAL

**Description.** This work shall consist of the removal and disposal of existing curb and gutter, including all necessary excavation, as shown on the plans or as directed by the Engineer. This work shall be in accordance with Sections 202 and 440 of the Standard Specifications, except as modified herein.

Excavation will not be paid for separately but shall be included in the cost of this item. The Contractor shall excavate all material necessary to build the proposed curb and gutter subbase in accordance with Section 202 of the Standard Specifications. Excavated material will not be permitted to be stockpiled behind the curb.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for at the contract unit price per lineal foot of COMBINATION CURB AND GUTTER REMOVAL.

## PAY ITEM #27 – SIDEWALK REMOVAL

**Description.** This work shall consist of the removal and disposal of existing sidewalk at locations shown on the plans or as directed by the Engineer. This work shall be completed in accordance with Sections 202 and 440 of the Standard Specifications, except as modified herein.

Excavation will not be paid for separately but shall be included in the cost of this item. The Contractor shall excavate all material necessary to meet the lines and grades shown on the plans and as directed by the Engineer. Additional excavation required to comply with ADA requirements shall be included in the cost of this item.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for at the contract unit price per square foot for SIDEWALK REMOVAL.

## PAY ITEM #30 – CONCRETE COLLAR

**Description.** The CONTRACTOR shall place a concrete collar to join new sewer to existing sewer at locations shown on the plans or directed by the ENGINEER. Concrete collars shall also be placed for CONFLICT STRUCTURES in accordance with the detail in the plans at locations as shown on the plans or as directed by the ENGINEER.

Concrete collars shall be used to join new and existing sanitary sewers within 10 feet of a conflict structure or proposed manhole.

The work shall include backfill and any necessary excavation. The concrete shall be Class SI. Reinforcement shall be constructed in accordance with the detail in the plans and shall be included in the cost of the CONCRETE COLLAR. The sewer pipe will be paid for separately.

**Basis of Payment.** This work shall be measured and paid for at the contract unit price per cubic yard for CONCRETE COLLAR.

## PAY ITEM #31-38 – STORM SEWERS, RUBBER GASKET, CLASS A

**Description.** This work shall consist of constructing reinforced concrete pipe storm sewers on granular bedding as shown on the plans in accordance with the detail in the plans, Sections 550 and 1042 of the Standard Specifications, and as specified herein.

**Materials.** Storm sewers shall be reinforced concrete pipe in accordance with Section 1042 of the Standard Specifications. Bedding material shall be crushed gravel or stone meeting gradation CA-7 or CA-11.

**Construction Requirements.** Storm sewers shall be installed on a minimum of 4-inches of granular bedding. Once the pipe has been installed the Contractor shall place bedding to 12-inches over the crown of the pipe. Bedding material will not be paid for separately but shall be included in the cost of this item.

Trench backfill shall be placed over the bedding material and shall be paid for as TRENCH BACKFILL.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for at the contract unit price per lineal feet for STORM SEWERS, RUBBER GASKET, CLASS A, of the type and diameter specified.

## PAY ITEM #39 & 40 – DUCTILE IRON WATER MAIN

**Description.** This work shall consist of constructing ductile iron water main. This work shall be in accordance with Section 561, Section 562, and Section 563 of the Standard Specifications and with the Water and Sewer Specifications, except as modified herein.

**Materials.** Water main pipe shall be ductile iron pipe conforming to ANSI/AWWA C151/A21.51, Class 52 standard thickness, with gasketed bell and spigot type push-on joints conforming to ANSI/AWWA C111/A21.11, of the diameter specified. Pipe shall have an interior cement mortar lining conforming to AWWA C104.

Water main fittings shall be ductile iron conforming to ANSI/AWWA C110/A21.10 and ANSI/AWWA C153/A21.53. Fittings shall have a cement mortar lining and tar coating conforming to ANSI/AWWA C104/A21.4. Fittings shall have a minimum rated working pressure of 150 psi. Fittings shall have mechanical joint end connections unless otherwise specified. Fittings shall include crosses, tees, bends, reducers, caps, and all other fittings as may be necessary.

Mechanical joint restraints shall be EBAA Iron, Inc., MEGALUG Mechanical Joint Restraints for Ductile Iron Pipe, or approved equal.

Tie rods shall be stainless steel threaded rods ¾ in. diameter.

All bolts, tie rods, nuts, washers, and other hardware and fasteners to be installed below grade shall be stainless steel. Bolts and tie rods shall be Type 304 stainless steel. Nuts and washers shall be Type 300 stainless steel.

**Construction.** Water main shall be constructed such that the minimum depth of cover of the water main from existing finished grade and proposed finished grade to the crown of the pipe shall be a minimum of 5.5 ft.

Where construction of water main at a minimum depth of cover of 5.5 ft will result in a conflict with an existing or proposed utility, the minimum depth of cover of the water main shall be increased so as to avoid such conflict and to provide a minimum vertical separation of 18 in. between the water main and the existing or proposed utility.

Water main shall be placed on a bedding of crushed aggregate of CA-7 or CA-11 gradation having a minimum thickness of 4 in. The bedding shall be placed to a minimum of 12 in. above the water main.

Thrust blocking of all fittings shall be in accordance with Article 41-2.08 of the Water and Sewer Specifications and the details in the plans.

Where there is a change in the vertical alignment of the water main, a minimum of two tie rods shall be installed between the mechanical joint restraint of the fitting at the

bottom of the alignment change and the mechanical joint restraint of the fitting at the top of the alignment change.

Excavation and bedding will not be paid for separately but shall be included in the cost of this work.

**Pressure Test.** After the pipe has been laid and partially backfilled as specified herein, all newly-laid pipe, valved sections, and fire hydrants, unless otherwise expressly specified, shall undergo hydrostatic pressure testing.

The Contractor shall notify the Engineer and Owner a minimum of forty-eight hours prior to the beginning of testing. Pipe segments to be tested shall be subjected to a minimum pressure of 150 psi at the lowest elevation of the pipe section for a duration of not less than two hours. Water main testing shall be in accordance with the applicable portions of AWWA Standards C600 and C603, or as otherwise modified herein.

The water main shall be tested in segments to minimize water service disruption. The length of test segments shall be determined by the Engineer.

Valves will be turned on only under the supervision of the Village, and the Village will witness all pressure testing.

Each section of pipe to be tested, as determined by the Engineer, shall be slowly filled with water and the specified test pressure shall be applied by means of a pump connected to the pipe in a satisfactory manner. The pump pipe connection and all necessary apparatus, including gauges and meters, shall be furnished by the Contractor. Before applying the specified test pressure, all air shall be expelled from the pipe. To accomplish this, taps shall be made, if necessary, at points of highest elevations and afterwards tightly plugged. Any cracked or defective pipes, fittings, valves, or hydrants discovered in consequence of this pressure test shall be removed and replaced by the Contractor with sound material, and test shall be repeated until satisfactory to the Engineer and the Village. The provisions of AWWA C600 and C603, where applicable, shall apply.

The pressure testing shall be accomplished with fire hydrant auxiliary valves open.

**Leakage Test.** A leakage test will not be performed.

**Disinfection.** Disinfection of water mains shall be completed in accordance with Section 41-2.15 of the Water and Sewer Specifications except as modified in this Special Provision.

The Owner shall be notified at least twenty-four hours before the disinfection procedure. Representatives of the Public Works Department must be present during the procedure.

**Flushing.** Sections of pipe to be disinfected shall first be flushed to remove any solids or contaminated material that may have become lodged in the pipe. If no hydrant is installed at the end of the main, then a tap should be provided large enough to develop a velocity of at least two and five-tenths (2.5) feet per second in the main. One two and one-half (2 1/2) inch hydrant opening will, under normal pressures, provide this velocity in pipe sized up to and including twelve (12) inches.

All taps required for chlorination or flushing purposes, or for temporary or permanent release of air, shall be provided for by the Contractor as part of the construction of water mains.

**Requirement of Chlorine.** A free chlorine residual of at least 50 ppm and no more than 400 ppm must be reached throughout the entire length and branch lines of the water main. After the super-chlorinated water has sat in the main for twenty-four hours, a chlorine residual test shall be taken to insure the residual has not dropped by over one-half.

**Form of Applied Chlorine.** Chlorine shall be applied by the method which follows, subject to the review of the Engineer.

Chlorination shall be made by the use of chlorine gas only. The dry gas shall be fed directly through proper devices for regulating the rate of flow and providing effective diffusion of the gas into the water within the pipe being treated. Chlorinating devices for feeding the chlorine gas must provide means for preventing the backflow of water into the chlorine. The chlorine gas shall be injected into the main at intervals of no more than 1,000 feet.

**Point of Application.** The preferred point of application of the chlorine gas is at the beginning of the pipe line extension or any valved section of it, and through a corporation stop inserted in the pipe. The water injector for delivering the chlorine-bearing water into the pipe should be supplied from a tap made on the pressure side of the gate valve controlling the flow into the pipe line extension. Alternate points of application may be used subject to the review of the Engineer.

**Preventing Reverse Flow.** Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the line supplying the water. Check valves may be used if desired.

**Retention Period.** Treated water shall be retained in the pipe at least twenty-four (24) hours. After this period, the chlorine residual at pipe extremities and at other representative points shall be at least twenty-five (25) mg/l.

**Chlorinating Valves and Hydrants.** In the process of chlorinating newly laid pipe, all valves or other appurtenances shall be operated while the pipe line is filled with the chlorinating agent and under normal operating pressure.

**Final Flushing and Testing.** Following chlorination, all treated water shall be thoroughly flushed from the newly laid pipe at its extremity until the replacement water throughout its entire length shows, upon test, a chlorine residual of less than one (1) mg/l. In the event chlorine is normally used in the source of supply, then the test shall show a residual of not in excess of that carried in the system.

Chlorinated water to be flushed into the combined sewer, not the storm sewer.

Contractor to notify the Village prior to discharging chlorinated water to the combined sewer.

At this time a water sample will be taken by the Contractor or his representative and sent to a state-certified water lab of his choice. Also at this time the Village will witness the sampling. The Contractor shall take two (2) samples, 24 hours apart with satisfactory results or the procedure shall be repeated.

**Repetition of Flushing and Testing.** Should the initial treatment result in an unsatisfactory bacterial test, the original chlorination procedure shall be repeated by the Contractor until satisfactory results are obtained. After water main passes chlorination testing, the corporation stop used to chlorinate the main shall be shut off and any piping removed.

All water main pipe, pipe fittings, joint materials, restraint devices and thrust blocks, hydrostatic pressure tests, leakage tests, disinfecting of the water main, excavation, bedding and select (common) backfill shall be included in the cost of the DUCTILE IRON WATER MAIN. All trench backfill, pavement removal and replacement and other surface restoration items as shown on the plans and specified herein shall be paid for separately.

This item shall also include any and all incidental items such as temporary plugs, corporation stops (for testing), water pumps, gauges, meters and laboratory test costs, and all other items necessary to complete this work as specified.

**Method of Measurement.** This work will be measured for payment in place in feet, regardless of the depth of the water main. The length measured will include stops and fittings. No separate measurement will be made of fittings, couplings, stops, or other components.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for DUCTILE IRON WATER MAIN, of the diameter specified, measured in place.

## PAY ITEM #41 & 42 – WATER VALVES

**Description.** This work shall consist of constructing water valves. This work shall be in accordance with applicable portions of Section 561 of the Standard Specifications and with the Water and Sewer Specifications, except as modified herein.

**Materials.** Water valves shall be AMERICAN Flow Control Series 2500 Ductile Iron Resilient Wedge Gate Valves conforming to ANSI/AWWA C515, with mechanical joint end connections, of the diameter specified, or approved equal. All exterior valve body bolting shall be Type 304 stainless steel.

Water main pipe shall be ductile iron pipe conforming to ANSI/AWWA C151/A21.51, Class 52 standard thickness, with push-on joints conforming to AWWA C111.

Water main couplings shall be Krausz Hymax Grip coupling restraints of the diameter required, or approved equal.

Mechanical joint restraints shall be EBAA Iron, Inc., MEGALUG Mechanical Joint Restraints for Ductile Iron Pipe, or approved equal.

Tie rods shall be stainless steel threaded rods ¾ in. diameter.

All bolts, tie rods, nuts, washers, and other hardware and fasteners to be installed below grade shall be stainless steel. Bolts and tie rods shall be Type 304 stainless steel. Nuts and washers shall be Type 300 stainless steel.

Valve vaults shall be precast reinforced concrete with a minimum diameter of 4 ft. for valves 8 in. diameter or less and with a minimum diameter of 5 ft. for valves 10 in. diameter or more. The cone section of the valve vault shall have a concentric opening. The openings in the valve vault shall be fitted with rubber pipe boots.

**Construction.** Water valves shall be installed in a precast reinforced concrete valve vault unless otherwise specified. The valve shall be placed on a solid concrete block resting on the bottom of the valve vault. The valve shall be placed so that the operating nut is centered under the opening of the valve vault.

Where a new water valve is to be installed on an existing water main, the existing water main shall be cut by an approved method and a section of existing water main of sufficient length shall be removed. The valve shall be joined on both ends to sections of new water main pipe of the proper length with mechanical joint restraints. The valve and pipe assembly shall be positioned in place between the two cut ends of the existing water main and the ends of the existing water main shall be joined to the valve assembly with water main couplings of the proper size. The labor, equipment and materials which are necessary to construct a new water valve on an existing water main will not be paid for separately but shall be included in the cost of this work.

Where an existing water valve is to be removed and replaced with a new water valve in substantially the same location, removal of the existing water valve will not be paid for separately but shall be included in the cost of this work.

Excavation, bedding, and backfilling will not be paid for separately but shall be included in the cost of this work.

**Basis of Payment.** This work will be paid for at the contract unit price per each for WATER VALVES, of the diameter specified.



## PAY ITEM #43 – FIRE HYDRANTS TO BE REMOVED

**Description.** This work shall consist of removing fire hydrants in locations where new fire hydrants are not to be installed. This work shall be in accordance with Section 564 of the Standard Specifications and with the Standard Specifications for Water and Sewer Construction in Illinois, except as modified herein.

Where an existing fire hydrant is to be removed and replaced with a new fire hydrant in substantially the same location, removal of the existing fire hydrant will not be paid for separately but shall be included in the cost of the fire hydrant installation.

**Materials.** Water main pipe shall be ductile iron pipe conforming to ANSI/AWWA C151/A21.51, Class 52 standard thickness.

Water main couplings shall be Krausz Hymax Grip coupling restraints of the diameter required, or approved equal.

All bolts, tie rods, nuts, washers, and other hardware and fasteners to be installed below grade shall be stainless steel. Bolts and tie rods shall be Type 304 stainless steel. Nuts and washers shall be Type 300 stainless steel.

**Construction.** The existing fire hydrant, auxiliary valve, valve box, hydrant lead, tee, and a portion of the adjoining water main shall be excavated and exposed. The existing water main shall be cut on both sides of the tee by an approved method and a section of existing water main shall be removed along with the tee, hydrant lead, valve box, auxiliary valve and fire hydrant. A section of new water main pipe of the proper length shall be positioned in place between the two cut ends of the existing water main and the ends of the existing water main shall be joined to the new section of water main pipe with water main couplings of the proper size.

The excavation shall be backfilled with crushed aggregate of CA-6 gradation and mechanically compacted in lifts not exceeding 12 in.

Excavation and backfilling will not be paid for separately, but shall be included in the cost of this work.

Fire hydrants which are removed and are selected by the Engineer to be salvaged shall remain the property of the Village and shall be delivered by the Contractor to the Village of Villa Park Public Works Department yard located at 51 South Ardmore Avenue in Villa Park. Delivery shall be made during the normal working hours of the Village of Villa Park Public Works Department and the Contractor shall coordinate the day, time and other details of delivery with the Village. Fire hydrants which are not selected by the Engineer to be salvaged shall become the property of the Contractor and shall be removed from the site by the end of the workday and properly disposed of by the Contractor. The delivery or disposal of fire hydrants will not be paid for separately but shall be included in the cost of this work.

**Basis of Payment.** This work will be paid for at the contract unit price per each for FIRE HYDRANTS TO BE REMOVED.

## PAY ITEM #44 – FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX

**Description.** This work shall consist of constructing fire hydrants with auxiliary valves and valve boxes. This work shall be in accordance with Section 564 of the Standard Specifications and with the Standard Specifications for Water and Sewer Construction in Illinois, except as modified herein.

**Materials.** Fire hydrants shall be AMERICAN Flow Control 5-¼" Waterous Pacer Traffic Model WB67-250 Fire Hydrant, conforming to ANSI/AWWA C502, with all stainless steel trim, above-ground breakable flanges, and auxiliary resilient wedge gate valve and valve box. Fire hydrants shall be fitted with DDP-arrangement nozzle sections with one 4-½ in. pumper nozzle and two 2-½ in. hose nozzles with National Standard threads and a National Standard operating nut.

Fire hydrants shall be factory painted red, prime coated with an epoxy, and finish coated with a two-part polyurethane top coat. Fire hydrants that are not factory painted red will be considered unacceptable and will be rejected.

Fire hydrants shall be furnished with bury depths that will allow the hydrants to be constructed with their ground rings positioned within ¼ in. of finished grade.

Where fire hydrants are to be constructed on existing water mains, Contractor may elect to construct trenches on the existing water main at the locations of proposed fire hydrants to investigate the depth of the existing water main and to determine the bury depths that will be required for the new hydrants prior to furnishing them. Such trenches shall be in accordance with, measured, and paid for as EXPLORATION TRENCH, SPECIAL.

Auxiliary valves shall be AMERICAN Flow Control Series 2500 Ductile Iron 250 psig AWWA Resilient Wedge Gate Valves conforming to ANSI/AWWA C515, with flanged x mechanical joint end connections, 6 in. diameter. All exterior valve body bolting shall be Type 304 stainless steel.

Valve boxes shall have a cover embossed with the word “WATER”.

Valve box adaptors shall be Adaptor, Inc., Valve Box Adaptor II (VBA-II), or approved equal.

Valve box stabilizer grips shall be by BLR Enterprises, Inc., or approved equal.

Hydrant lead pipe shall be ductile iron pipe conforming to ANSI/AWWA C151/A21.51, Class 52 standard thickness, with push-on joints conforming to AWWA C111, 6 in. diameter.

Water main couplings shall be Krausz Hymax Grip coupling restraints of the diameter required, or approved equal.

Mechanical joint restraints shall be EBAA Iron, Inc., MEGALUG Mechanical Joint Restraints for Ductile Iron Pipe, or approved equal.

Tie rods shall be stainless steel threaded rods ¾ in. diameter.

All bolts, tie rods, nuts, washers, and other hardware and fasteners to be installed below grade shall be stainless steel. Bolts and tie rods shall be Type 304 stainless steel. Nuts and washers shall be Type 300 stainless steel.

Fire hydrant barrel extensions, if permitted, shall be AMERICAN Flow Control Waterous Series and shall be a maximum of 18 in.

Fire hydrant bags shall be polypropylene with a minimum thickness of 4 mils and orange in color with bold black print reading “NOT IN SERVICE”. Bags shall include tie straps to firmly secure the bags to hydrants.

**Construction.** Where an existing fire hydrant is to be removed and replaced with a new fire hydrant with auxiliary valve and valve box in substantially the same location, the existing fire hydrant, auxiliary valve, valve box, hydrant lead pipe, and tee shall be excavated and exposed. The existing hydrant lead pipe shall be disconnected from the existing tee and the existing fire hydrant, auxiliary valve, valve box, and hydrant lead pipe shall be removed. Removal of the existing fire hydrant and related components will not be paid for separately but shall be included in the cost of this work.

If the Engineer determines the existing hydrant tee and adjoining connections are in satisfactory condition, then the existing tee shall be reused, except that all the hardware

on the existing tee shall be replaced. If the Engineer determines the existing hydrant tee is in unsatisfactory condition, then the existing tee shall be removed and replaced and this work will be performed, measured, and paid for as SHUTDOWN WATER MAIN CONNECTION.

The fire hydrant shall be installed so that the standpipe is plumb. The center of the lowest nozzle shall be placed at least 18 in. but not more than 24 in. above finished grade. The breakable flanges shall be positioned 2 in. above finished grade. The nearest part of the hydrant shall be at least 3 ft. but not more than 8 ft. behind the back of curb. The nearest part of the hydrant shall be at least 3 ft. from all paved surfaces. Where hydrants are to be installed adjacent to a roadway they shall be placed so that the pumper nozzle faces the roadway and is perpendicular to the direction of travel of the roadway. Where hydrants are not to be installed adjacent to a roadway they shall be placed according to the plans or as directed by the Engineer.

Fire hydrants and auxiliary valves shall be set on a firm foundation of precast concrete blocks and shall be thrust blocked. Additional precast concrete bricks shall be placed under the auxiliary valve as needed. Thrust blocking shall consist of Class SI concrete cast in place against the fittings and the undisturbed earth on any side or sides of the excavation where thrust is expected to occur. A minimum of ¼ cu. yd. of concrete shall be used for the thrust blocking. The dimensions of the thrust blocking shall be determined by the Engineer. Thrust blocking may also consist of the placement of precast concrete blocks at the discretion of the Engineer. Additional precast concrete blocks shall be placed on the bottom, back and sides of the hydrant as directed by the Engineer to hold the hydrant solid and vertical. All blocks, bricks and thrust blocking shall be placed such that the pipe, joints, and fittings shall be accessible for future repair and so that the hydrant drain holes are not blocked.

Mechanical joint restraints shall be installed on all mechanical fittings. A minimum of two tie rods shall be installed between the fire hydrant barrel and the tee fitting on the water main. Valve box adaptors shall be installed. Valve box stabilizer grips shall be installed. Barrel extensions will only be permitted at the discretion of the Engineer.

Fire hydrants shall be braced and covered during backfilling. The area around the base of the hydrant shall be backfilled with a minimum of 1 cu. yd. of crushed aggregate of CA-1 gradation. The CA-1 aggregate shall be covered with polyethylene sheeting prior to further backfilling. Backfill material shall be placed in lifts not exceeding 6 in. in thickness, loose measurement, and compacted in a manner approved by the Engineer.

Fire hydrants which are damaged during backfilling or which paint coat is damaged or chipped during backfilling due to lack of covering or lack of adequate covering shall have their heads replaced by Contractor at no cost to Owner.

Fire hydrants not in service shall be covered with fire hydrant bags until the fire hydrants are in service.

Excavation, bedding, and backfilling of fire hydrants will not be paid for separately but shall be included in the cost of this work.

**Method of Measurement.** This work will be measured for payment as each fire hydrant with auxiliary valve and valve box installed. No separate measurement will be made of pipe, fittings, hardware, or any other components.

**Basis of Payment.** This work will be paid for at the contract unit price per each for FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX.



## PAY ITEM #45 & 46 – CATCH BASINS, TYPE SPECIFIED

**Description.** This work shall consist of constructing Catch Basins, Type Specified at locations shown on the plans in accordance with the detail on the plan and Section 602 of the Standard Specifications, except as modified herein.

The CONTRACTOR is responsible for tying in all existing storm sewers to the proposed structure. Up to 5 feet of new sewer (if required) for each existing sewer tying into the proposed structure shall be considered included in the cost of this item. Connections to existing storm sewers should be made using non-shear mission couplings. The Contractor shall be responsible for verifying the size, inverts and locations of the existing sewers to be connected to the proposed structure. Any existing storm sewers that are damaged during construction shall be replaced in kind by the CONTRACTOR at no cost to the VILLAGE. The pipe, couplings, and trench backfill shall be included in the cost of the structure and will not be paid for separately.

When a proposed catch basin is to be installed at the location of an existing drainage structure, the removal of the existing structure shall be included in this item.

Removing existing drainage structures shall consist of the removal and disposal of existing catch basins and inlets in accordance with Section 605 of the Standard Specifications. The word STRUCTURE shall be understood to mean catch basins and inlets as the case may be.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for per each for CATCH BASINS, TYPE SPECIFIED, frame and grate specified.

## PAY ITEM #47 – MANHOLE, TYPE A, 4'-DIAMETER

**Description.** This work shall consist of constructing manholes at locations shown on the plans in accordance with the detail on the plan and Section 602 of the Standard Specifications, except as modified herein.

The CONTRACTOR is responsible for tying in all existing storm sewers to the proposed structure. Up to 5 feet of new sewer (if required) for each existing sewer tying into the proposed structure shall be considered included in the cost of this item. Connections to existing storm sewers should be made using non-shear mission couplings. The Contractor shall be responsible for verifying the size, inverts and locations of the existing sewers to be connected to the proposed structure. Any existing storm sewers that are damaged during construction shall be replaced in kind by the CONTRACTOR at no cost to the VILLAGE. The pipe, couplings, and trench backfill shall be included in the cost of the structure and will not be paid for separately.

When a proposed manhole is to be installed at the location of an existing manhole, the removal of the existing structure shall be included in this item.

Removing existing manholes shall consist of the removal and disposal of existing manholes in accordance with Section 605 of the Standard Specifications.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for per each for MANHOLE, TYPE A, 4'-DIAMETER, frame and lid specified.



**PAY ITEM #48 – MANHOLE, TYPE A, 9'-DIAMETER**

**Description.** This work shall consist of constructing manholes at locations shown on the plans in accordance with the detail on the plan and Section 602 of the Standard Specifications, except as modified herein.

The CONTRACTOR is responsible for tying in all existing storm sewers to the proposed structure. Up to 10 feet of new sewer (if required) for each existing sewer tying into the proposed structure shall be considered included in the cost of this item. Connections to existing storm sewers should be made using non-shear mission couplings. The Contractor shall be responsible for verifying the size, inverts and locations of the existing sewers to be connected to the proposed structure. Any existing storm sewers that are damaged during construction shall be replaced in kind by the CONTRACTOR at no cost to the VILLAGE. The pipe, couplings, and trench backfill shall be included in the cost of the structure and will not be paid for separately.

When a proposed manhole is to be installed at the location of an existing manhole, the removal of the existing structure shall be included in this item.

Removing existing manholes shall consist of the removal and disposal of existing manholes in accordance with Section 605 of the Standard Specifications.

If, in the opinion of the CONTRACTOR, a cast-in-place concrete junction chamber would provide a considerable cost savings to the VILLAGE, the CONTRACTOR may propose to construct a cast-in-place junction chamber in lieu of the MANHOLE, TYPE

A, 9'-DIAMETER. The Contractor shall submit a written proposal for this substitution to the ENGINEER, along with a summary of the cost savings to be realized. The CONTRACTOR shall also submit calculations and detailed shop drawings that are signed and sealed by a Structural Engineer licensed in the State of Illinois to the ENGINEER for review. The required thickness of the chambers bottom slab, sidewalls and top slab, and reinforcement details shall be shown on the shop drawings. A temporary shoring plan, signed and sealed by a Structural Engineer licensed in the State of Illinois, shall be submitted to the ENGINEER with corresponding calculations and other necessary information, for all temporary shoring required to accommodate safety and other requirements during construction. Temporary shoring plan shall be approved by the VILLAGE prior to installation of temporary shoring. The VILLAGE will have the sole ability to determine whether the substitution is acceptable, and their decision shall be final.

Cast in place concrete shall be IDOT class SI (f'c min = 3500 PSI).

If the CONTRACTOR elects to construct a cast-in-place junction chamber in lieu of a manhole, all labor and materials associated with the construction of the cast-in-place junction chamber shall be included in the cost of this pay item. No separate payment will be made for excavation, granular backfill, granular subbase, concrete, reinforcement bars, frame and grate, cast iron steps, precast concrete riser and slab, temporary shoring and any miscellaneous items required to construct the junction chamber.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for per each for MANHOLE, TYPE A, 9'-DIAMETER, frame and lid specified.

**PAY ITEM #49 – INLETS, TYPE A**

**Description.** This work shall consist of constructing Inlets, Type A at locations shown on the plans in accordance with the detail on the plan and Section 602 of the Standard Specifications, except as modified herein.

The CONTRACTOR is responsible for tying in all existing storm sewers to the proposed structure. Up to 5 feet of new sewer (if required) for each existing sewer tying into the proposed structure shall be considered included in the cost of this item. Connections to existing storm sewers should be made using non-shear mission couplings. The Contractor shall be responsible for verifying the size, inverts and locations of the existing sewers to be connected to the proposed structure. Any existing storm sewers that are damaged during construction shall be replaced in kind by the CONTRACTOR at no cost to the VILLAGE. The pipe, couplings, and trench backfill shall be included in the cost of the structure and will not be paid for separately.

When a proposed inlet is to be installed at the location of an existing drainage structure, the removal of the existing structure shall be included in this item.

Removing existing drainage structures shall consist of the removal and disposal of existing catch basins and inlets in accordance with Section 605 of the Standard Specifications. The word STRUCTURE shall be understood to mean catch basins and inlets as the case may be.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for per each for INLETS, TYPE A, frame and grate specified.

## PAY ITEM #50 – VALVE VAULTS, TYPE A

**Description.** This work shall consist of constructing valve vaults for water mains and water services in accordance with Section 44 of the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois" and Section 602 of the STANDARD SPECIFICATIONS.

In addition to the requirements of Sections 44 – 2.02 and 44 – 3.01 and 602, valve vaults shall be constructed in accordance with the Village of Villa Park Standard Detail. All lids for valve vaults shall have the words "WATER" cast into them.

Preformed plastic gasket material shall be installed at all joints. All openings around the water main shall be filled with preformed plastic gasket material and sealed with non-shrink hydraulic grout. The concrete base of the vault shall be set on a minimum of 4-inches of well compacted CA-11 or CA-7.

Excavation, bedding, and backfilling needed for the installation of valve vaults will not be paid for separately but shall be included in the cost of this work.

**Measurement and Payment.** This work will be paid for at the contract unit price each for VALVE VAULTS, TYPE A, of the diameter and frame specified.

## PAY ITEM #51 – COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

**Description.** This work shall consist of the construction of combination concrete curb and gutter type B-6.12, including all necessary embankment as shown on the plans or as directed by the Engineer. This work shall be in accordance with the detail in the plans and Sections 606, 205, and 311 of the Standard Specifications, except as modified herein.

Backfill behind the proposed back of curb shall be in accordance with Section 205 of the Standard Specifications.

Combination concrete curb and gutter shall be constructed on a prepared base of mechanically compacted crushed aggregate of CA-6 gradation having a minimum compacted thickness of 4 in.

Wood forms shall be used. Forms constructed of steel or Masonite will not be permitted. Forms for radius sections of the combination concrete curb and gutter shall be constructed of 1 in. thick wood boards.

The height of the curb head may vary as shown on the plans or as directed by the Engineer. Variations in the height of the curb head will not be paid for separately but shall be included in the cost of this item.

Where combination concrete curb and gutter is constructed across driveways, alleys, sidewalk curb ramps, or other designated areas, the top of the curb shall be depressed according to the details shown on the plans or as directed by the Engineer. The transition from full height curb to depressed curb shall be made over a distance equal to at least four times the difference in height between the full height curb and the depressed curb.

Where combination concrete curb and gutter is constructed across sidewalk curb ramps, the depressed curb shall be in compliance with all applicable requirements of the Americans with Disabilities Act (ADA) and the Proposed Guidelines for Accessible Rights-of-Way (PROWAG).

Where combination concrete curb and gutter is to be constructed adjacent to existing pavement that is not being reconstructed, the void between the existing pavement and the proposed combination concrete curb and gutter shall be filled in with a concrete wedge with a minimum width of 6 in. and a minimum thickness of 8 in. The concrete wedge shall be placed after the combination concrete curb and gutter has been placed and the forms have been removed. The placement of the concrete wedge will not be paid for separately but shall be included in the cost of this item.

Where combination concrete curb and gutter is to be constructed adjacent to proposed sidewalk to be constructed, the combination concrete curb and gutter shall be constructed first and shall be constructed with an integral poured ledge. The ledge shall extend horizontally a minimum of 3 in. from the back of the curb head of the combination concrete curb and gutter. The ledge shall be positioned so that the vertical distance from the top of the ledge to the top of the curb head is equal to the thickness of the proposed sidewalk. The ledge shall extend vertically to the bottom edge of the combination concrete curb and gutter. The construction of the integral poured ledge will not be paid for separately but shall be included in the cost of this item.

Expansion joints shall be constructed at 60 ft. maximum centers. Expansion joints shall also be constructed at all construction joints, all points of curvature, all points of tangency, within 5’ on either side of all curb structure castings, and at additional

locations as directed by the Engineer. Expansion joints shall consist of a 1 in. thick preformed bituminous expansion joint filler that extends the full cross section of the combination concrete curb and gutter. Expansion joint filler material that is larger than the cross section of the combination concrete curb and gutter shall be cut to the exact cross section of the combination concrete curb and gutter. Expansion joints shall have two 18 in. long, No. 6 non-deformed epoxy-coated steel dowel bars placed at mid-depth. The dowel bars shall have a greased plastic expansion cap placed on one end of each dowel bar a minimum of 1 in. from the end of the dowel bar.

Where proposed combination concrete curb and gutter is to be constructed abutting existing combination concrete curb and gutter, the dowel bars shall be drilled into the existing combination concrete curb and gutter. This work will not be paid for separately but shall be included in the cost of this item.

Contraction joints shall be constructed at 15 ft. maximum centers. Where the location of a contraction joint coincides with the location of an expansion joint, the contraction joint may be omitted at the discretion of the Engineer. Contraction joints shall be tooled and sawed. Sawing of contraction joints shall commence as soon as the concrete has hardened sufficiently to permit sawing without excessive raveling, but in no case shall sawing commence less than 4 hours or more than 24 hours after the concrete is placed. Sawing of contraction joints shall be to a depth equal to 1/3 the thickness of the gutter flag and to a width of not less than 1/8 in. Contraction joints shall be sealed according to Article 420.12, except that joints shall be sealed with polysulfide or polyurethane joint sealant.

If Contractor fails to construct joints in accordance with the requirements of this provision and the curb cracks, the Contractor shall remove and replace the affected section of combination concrete curb and gutter extending the full length between the two adjacent joints on either side of the crack. This work will not be paid for but shall be at the Contractor's expense.

Upon removal of the forms from the back of the combination concrete curb and gutter, excavated areas behind the combination concrete curb and gutter shall be immediately backfilled. Areas where pavement or sidewalks are to be constructed shall be backfilled with crushed aggregate of CA-6 or CA-7 gradation and mechanically compacted. Areas where topsoil and sodding are to be placed shall be backfilled with non-organic material acceptable to the Engineer. This work will not be paid for separately but will be included in the cost of this item.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12.

## PAY ITEM #54 – TEMPORARY PATCHING

**Description.** This work shall consist of constructing temporary asphalt pavement as directed by the ENGINEER. The temporary patch shall be installed to a depth of at least two (2) inches. The CONTRACTOR shall use binder course unless otherwise allowed by the ENGINEER. Prior to placement the CONTRACTOR must submit to the ENGINEER a mix design for approval. The number of lifts required to place the material will be determined in the field by the ENGINEER. All work shall be performed in accordance with Section 355 or 406 of the Standard Specifications.

TEMPORARY PATCHING shall be placed at locations directed by the ENGINEER, as needed to access to adjacent properties.

This work shall include removal of any temporary stone as necessary to place the temporary pavement patch, as well as the removal and disposal of temporary patching materials to facilitate placement of the permanent roadway pavement.

The existing pavement shall be saw cut prior to the installation of the patch.

**Method of Measurement and Basis of Payment.** This work will be measured and paid for at the contract unit price per square yard for TEMPORARY PATCHING.

## PAY ITEM #55 – EXPLORATION TRENCH, SPECIAL

**Description.** This work shall consist of constructing a trench for the purpose of locating and inspecting an existing utility or utilities. This work shall be in accordance with Section 213 of the Standard Specifications, except as modified herein.

The exploration trench may be used to locate any existing utility or utilities, including, but not limited to, water mains, water services, sewer mains, sewer services, field tiles, gas lines, underground electric lines, underground telephone lines, underground cable TV lines, underground communication lines, underground fiber optic lines, and other utilities as applicable.

The exploration trench may be used to locate existing utilities regardless of whether the utilities are public or private; known or unknown; or marked or unmarked. The exploration trench may also be used to inspect the condition of existing utilities, determine the material type or dimensions of existing utilities, and to verify clearances between multiple utilities.

The exploration trench shall be constructed at the locations shown on the plans or as directed by the Engineer. The depth of the exploration trench shall vary as necessary, but shall be sufficient to locate the utility or utilities under investigation. The width of the trench shall be sufficient to allow proper investigation of the entire trench.

Upon completion of the exploration trench, the trench shall be backfilled. All exploration trenches where the inner edge of the trench is within 2 ft of an existing or proposed edge of pavement, driveway, curb, gutter, curb and gutter, stabilized shoulder, or sidewalk shall be backfilled with trench backfill in accordance with Section 208 of the Standard Specifications. Exploration trenches which do not require trench backfill shall be backfilled in accordance with Article 550.07 of the Standard Specifications. Backfilling of exploration trenches will not be measured for payment but shall be included in the cost of this work.

**Method of Measurement.** The exploration trench will be measured for payment in feet of actual trench constructed, regardless of the depth of the trench constructed. No additional measurement or compensation will be allowed for any delays or unforeseen circumstances arising from this work.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for EXPLORATION TRENCH, SPECIAL.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for EXPLORATION TRENCH, SPECIAL, regardless of the depth of the actual trench constructed.

## PAY ITEM #56 & 57 – TEMPORARY ACCESS

**Description.** This work shall consist of the construction and maintenance of an aggregate base course for maintaining access to intersecting streets and driveways as specified in Article 107.09 of the STANDARD SPECIFICATIONS. The CONTRACTOR shall provide access for all emergency vehicles and school buses, and to all abutting properties at all times during construction.

**Construction Requirements:** The CONTRACTOR shall maintain ingress and egress to all abutting properties during construction operations when construction operations are not taking place directly in front of the property, except for a maximum period of 4 calendar days after new concrete curb or driveway pavement is poured. Residents shall be notified a minimum of 48 hours prior to this period. Temporary driveways and entrances shall be constructed of aggregate in accordance with the applicable portions of Section 351 of the STANDARD SPECIFICATIONS and to the dimensions determined by the ENGINEER. The coarse aggregate shall be crushed stone or crushed gravel, gradation CA-6. All adjacent properties shall have access at the end of each working day.

Maintenance shall consist of placing and compacting additional aggregate of the same type and gradation as the base aggregate.

After these driveway aprons have served their purpose, the suitable aggregate shall be removed, and, at the direction and approval of the ENGINEER, utilized for other purposes, such as aggregate base course for driveways, and embankment construction or other driveway aprons or otherwise disposed of as specified in Article 202.03 of the Standard Specifications.

**Method of Measurement and Basis of Payment:** This work will be paid for at the contract unit price per each for TEMPORARY ACCESS (PRIVATE ENTRANCE) or TEMPORARY ACCESS (ROAD). TEMPORARY ACCESS will only be measured and paid for once during construction. If work requires the temporary removal of aggregate for temporary access, it shall be stockpiled and replaced at the end of each working day at no additional cost to the Village.



## PAY ITEM #58 – VALVE BOX

**Description.** This work shall consist of constructing valve boxes for water mains in accordance with Sections 44 of the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois." The valve boxes shall be installed on new 6-inch and 8-inch water valves.

In addition to the requirements of Sections 44 – 2.01 and 44 – 3.02, all lids for valve boxes shall have the words "WATER" cast into them.

When a proposed valve box is to be installed at the location of an existing box, the removal of the existing valve box shall be included in this item.

Removing existing valve boxes shall consist of the removal and disposal of existing boxes in accordance with Section 605 of the Standard Specifications.

Excavation, bedding, and backfilling needed for the installation of valve boxes will not be paid for separately but shall be included in the cost of this work.

**Measurement and Payment.** This work will be paid for at the contract unit price each for VALVE BOX, regardless of valve size.

## PAY ITEM #59 – HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4"

**Description.** Work under this item consists of construction of new HMA driveway pavement at locations shown on the plans, or as directed by the ENGINEER, in accordance with Sections 301, 351, 406 and 423 of the Standard Specifications and as directed by the ENGINEER.

CONTRACTOR shall place embankment or excavate in accordance with Sections 202 and 205 of the Standard Specifications in order to achieve the required finished grades.

The proposed driveway pavement shall consist of 1 lift of 2.5" HMA Binder Course, IL-19.0, N50 and 1 lift of 1.5" HMA Surface Course, Mix D, N50 for a total of 4" of HMA over 6" of mechanically compacted Aggregate Base Course, Type B. The existing aggregate base course may be re-used with approval of the ENGINEER.

All excavation, embankment, HMA Surface Course, and aggregate base course will not be paid for separately but shall be included in this pay item.

**Basis of Payment.** This work shall be measured in place and paid for at the contract unit price per square yard for HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4".



## PAY ITEM #60 – CONSTRUCTION LAYOUT

The Contractor shall be required to furnish and place construction layout stakes for this project. The Engineer will provide adequate reference points to the centerline of survey and benchmarks as shown in the plans and listed herein. Any additional control points set by the Engineer will be identified in the field to the Contractor and all field notes will be kept in the office of the Resident Engineer.

The Contractor shall provide field forces, equipment and material to set all additional stakes for this project, which are needed to establish offset stakes, reference points, and any other horizontal or vertical controls, including supplementary benchmarks, necessary to secure a correct layout of the work. Stakes for line and grade of pavement and/or curb shall be set at sufficient station intervals (not to exceed 50 ft.) to assure substantial conformance to plan line and grade. The Contractor will not be required to set additional stakes to locate a utility line which is not included as a pay item in the contract nor to determine property lines between private properties.

The Contractor shall be responsible for having the finished work substantially conform to the lines, grades, elevations and dimensions called for in the plans. Any inspection or checking of the Contractor's layout by the Engineer and the acceptance of all or any part of it shall not relieve the Contractor of his/her responsibility to secure the proper dimension, grades and elevations of the several parts of the work. The Contractor shall exercise care in the preservation of stakes and benchmarks and shall have them reset at his/her expense when any are damaged, lost, displaced or removed or otherwise obliterated.

<u>Responsibility of the Engineer</u>

a. The Engineer will locate and reference the baseline.

Locating and referencing the baseline of survey will consists of establishing and referencing the control points of the baseline of surveys such as PC's, PT's and as many POT's as are necessary to provide a line of sight.

b. Benchmarks will be established along the project outside of the construction lines not exceeding 300 m (1,000 ft.) intervals horizontally and 6 m (20 ft.) vertically.

c. Stakes set for (a) and (b) above will be identified in the field to the Contractor.

d. The Engineer will make random checks of the Contractor's staking to determine if the work is in substantial conformance with the plans. Where the Contractor's work will tie into work that is being or will be done by others, checks will be made to determine if the work is in conformance with the proposed overall grade and horizontal alignment.

e. The Engineer will make all arrangements and take all cross sections from which the various pay items are to be measured.

f. Where the Contractor, in setting construction stakes, discovers discrepancies, the Engineer will check to determine their nature and make whatever revisions are necessary in the plans, including the recross-sectioning of the area involved. Any additional restaking required by the Engineer will be the responsibility of the Contractor. The additional restaking done by the Contractor will be paid for in accordance with 109.04 of the Standard Specifications.

g. It is not the responsibility of the Engineer, except as provided herein, to check the correctness of the Contractor's stakes; however, any errors that are apparent will be immediately called to the Contractor's attention and s(he) shall be required to make the necessary correction before the stakes are used for construction purposes.

h. Where the plan quantities for excavation are to be used as the final pay quantities, the Engineer will make sufficient checks to determine if the work has been completed in substantial conformance with the plan cross sections.

<u>Responsibility of the Contractor</u>

a. The Contractor shall establish from the given survey points and benchmarks all the control points necessary to construct the individual project elements. S(he) shall provide the Engineer adequate control in close proximity to each individual element to allow adequate checking of construction operations. This includes, but is not limited to, line and grade stakes, line and grade nails in form work, and/or filed or etched marks in substantially completed construction work.

It is the Contractor's responsibility to tie in baseline control points in order to preserve them during construction operations.

b. The Contractor shall be responsible for locating and marking the limits of the project prior to the installation of silt fence.

c. At the completion of the grading operations, the Contractor will be required to set stakes at 30 m (100 ft.) station intervals along each profile grade line. These stakes will be used for final cross sectioning by the Engineer.

d. All work shall be in accordance with normally accepted self-checking surveying practices. Field notes shall be kept in standard survey field notebooks and those books shall become the property of the Engineer at the completion of the project. All notes shall be neat, orderly and in accepted form.

**Basis of Payment**: This item will be paid for at the contract lump sum price for CONSTRUCTION LAYOUT.



## PAY ITEM #61 – DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED

**Description.** This work shall consist of adjusting catch basins, manholes, valve vaults, and inlets with their existing frame, in accordance with Section 602 of the Standard Specifications and as specified herein. The word STRUCTURE shall be understood to mean catch basin, manhole, valve vault, or inlet as the case may be.

At locations shown on the plans or as directed by the Engineer, structures shall be adjusted with new frame and grates. New frame and grates will be paid for separately.

Each structure adjustment shall be limited to two adjustment rings. The final ring and rings under 2" on all drainage adjustments shall be rubber. The CONTRACTOR shall place a continuous strip 3/8" thick of polyurethane sealer/adhesive between the PCC structure or PCC ring and the bottom of the rubber ring. The CONTRACTOR shall also place a continuous strip 3/8" thick of polyurethane sealer/adhesive between the top of the rubber ring and the bottom of the frame.

Hydraulic cement shall be used in the adjustment of said structure to seal the outside of the adjustment rings and under the frame.

**Basis of Payment.** This work will be measured and paid for at the contract unit price per each for DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED.

## PAY ITEM #62 – DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED

**Description.** This work shall consist of reconstructing catch basins, manholes, valve vaults, and inlets with their existing frame and grate in accordance with Section 602 of the Standard Specifications and as specified herein. The word STRUCTURE shall be understood to mean catch basin, manhole, valve vault, or inlet as the case may be.

At locations shown on the plans or as directed by the Engineer, structures shall be adjusted with new frame and grates. New frame and grates will be paid for separately.

This item includes the cost of a new precast cone section or flat stab top.

Each structure being reconstructed shall be limited to two adjustment rings. The final ring and rings less than 2” on all drainage adjustments/reconstructions shall be rubber. The CONTRACTOR shall place a continuous strip 3/8” thick of polyurethane sealer/adhesive between the PCC structure or PCC ring and the bottom of the rubber ring. The CONTRACTOR shall also place a continuous strip 3/8” thick of polyurethane sealer/adhesive between the top of the rubber ring and the bottom of the frame.

Hydraulic cement shall be used in the adjustment of said structure to seal the outside of the adjustment rings and under the frame.

**Basis of Payment.** This work will be paid for at the contract unit price per each for DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED.

## PAY ITEM #63 – STORM SEWER (WATER MAIN REQUIREMENTS)

**Description.** This work shall conform to Section 550 of the Standard Specifications.

STORM SEWER (WATER MAIN REQUIREMENTS) shall comply with Illinois Environmental Protection Agency, Division of Public Water Supplies "Technical Policy Statements" concerning Illinois Pollution Control Board Rules and Regulations, Chapter 6, Rule 212, E through F. The following materials are permitted for STORM SEWER (WATER MAIN REQUIREMENTS):

1. PVC pressure pipe and fabricated fittings (water main quality) in accordance with AWWA C-900 for sizes 4”-12” or AWWA C-905 for sizes 14”-48”. PVC pipe joints shall be flexible elastomeric seals per ASTM D-3139 and F-477.

2. Ductile Iron pipe (Class 52) conforming to ANSI/AWWA C151/A.21.51 with joints conforming to ANSI/AWWA C111/A.21.11. Ductile shall be encased in polyethylene encasement in accordance with ANSI/AWWA C105/A21.5.

The storm sewers shall be handled in such a manner as to prevent damage to the pipe or joint/gasket. Accidental damage to the pipe or joint/gasket shall be repaired to the satisfaction of the ENGINEER, or be removed from the job, and the methods of handling shall be corrected to prevent further damage when called to the attention of the CONTRACTOR.

The pipe shall be inspected by the ENGINEER for defects prior to installation. Dirt or other foreign material which might prevent a watertight seal between pipe sections shall be removed to the satisfaction of the ENGINEER prior to installation. If any pipe end or gasket has been installed with dirt or foreign material therein, it shall be removed, cleaned and reinstalled.

**Method of Measurement and Basis of Payment.** This work shall be paid for at the contract unit price per lineal foot for STORM SEWER (WATER MAIN REQUIREMENTS) of the diameter specified.

## PAY ITEM #64 – STRUCTURES TO BE REMOVED

**Description.** This work shall consist of removing and disposing of existing manholes, valve vaults, catch basins and inlets in accordance with Section 605 of the Standard Specifications and as specified herein. The word STRUCTURE shall be understood to mean manholes, valve vaults, catch basins and inlets as the case may be. Removal of existing structures in locations where new structures are to be installed shall be included in the cost of the proposed structure.

**Construction Requirements.** In addition to the requirements of Article 605.03 of the Standard Specifications, the Contractor shall saw cut a square area around the structure to be removed of sufficient size to remove the structure. Excavated areas around the structure shall be backfilled with mechanically compacted CA-6. This backfill shall be included in the cost for STRUCTURES TO BE REMOVED.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for at the contract unit price per each for STRUCTURES TO BE REMOVED.

## PAY ITEM #65 – BRICK DRIVEWAY REMOVAL AND REPLACEMENT

**Description.** This work shall consist of removing an existing brick driveway, cleaning and storing the bricks, excavating or placing embankment to meet the lines and grades shown on the plans, and replacing the bricks in the original pattern to the satisfaction of the Engineer. This work shall be completed in accordance with Sections 301 and 440 of the Standard Specifications, and as directed by the Engineer.

If the Contractor removes or damages the existing driveway outside the limits designated by the Engineer, the Contractor will be required to remove and replace that portion at the Contractor's own expense to the satisfaction of the Engineer. The existing material shall be carefully stored and replaced after the adjacent curb and gutter or sidewalk is completed. In some locations, the Contractor may have to provide additional material. The additional brick, pavers or flagstone must match the existing material and be approved by the Engineer before installation. The Contractor shall provide a 2" thick sand base or match the thickness of the existing base, whichever is greater. This work will not be paid for separately but shall be included in this pay item.

All excavation, embankment, brick, stone, aggregate base course, sand, and any other material required to match the existing brick driveway shall be included BRICK DRIVEWAY REMOVAL AND REPLACEMENT.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for at the contract unit price per square yard for BRICK DRIVEWAY REMOVAL AND REPLACEMENT.



## PAY ITEM #66 – CLASS D PATCHES, 6 INCH

**Description.** This work shall consist of the removal of the existing pavement, the necessary excavation, and the replacement with hot-mix asphalt (HMA) patches at designated locations. This work shall be in accordance with Section 442 of the Standard Specifications, except as modified herein.

Remove all references to a specified type or types of patches in the Standard Specifications.

All patches shall be saw cut full-depth prior to removal of the existing pavement. The minimum thickness of each lift shall be 2.25 in. The maximum thickness of each lift shall be 4 in. Saw cuts and pavement removal will not be paid for separately, but shall be included in the cost of this work. This work shall include removal of any temporary stone as necessary to place the permanent patch.

Patches shall be constructed with 6" of HMA Binder Course IL-19.0, N50. Patches shall be installed after milling operations on Highland Avenue are complete. The patch shall be installed to the elevation of the adjacent milled pavement.

**Basis of Payment.** This work will be paid for at the contract unit price per square yard for CLASS D PATCHES, 6 INCH.

## PAY ITEM #67 – COMBINED MANHOLE LINING

**Description.** This work shall consist of all work necessary to rehabilitate existing sewer manhole using calcium aluminate mortar cementitious structural spray liner. Work shall include the wall coating, external or internal grouting and reconstruction of the bench/trough. This work shall eliminate all infiltration into the manhole.

**Materials.**

Infiltration Control: All fast setting materials furnished shall be designed to be applied in dry powder form, with no prior mixing of water, directly to active leaks under hydrostatic pressure in manholes or related structures. Materials shall consist of rapid setting cements, silicious aggregates, and various accelerating agents. Material shall not contain chlorides, gypsum, or metallic particles. All infiltration control materials shall conform to the following:

Compressive Strength (ASTM C109): 30 mins: 1850 psi, 28 days: 5890 psi
Bond Strength (ASTM C321): 30 min: 50 psi, 1 day: 85 psi
Set Time: 30 seconds

Invert Repair and Patching: All material furnished shall be designed to fill large voids in manhole walls and to repair or reconstruct inverts where no hydrostatic pressure exists. Material shall be a rapid setting, high early strength, non-shrink patching material. Material shall consist of rapid setting cements, NSG aggregates, and various accelerating agents. Material shall not contain chlorides, gypsum, or metallic particles. Approved invert repair and patching material shall be suitable for site conditions and approved by the Engineer. All invert repair and patching materials shall conform to the following:

Compressive Strength (ASTM C109): 1 hour: 4170 psi, 24 hours: 7000 psi
Flexural Strength (ASTM C348): 1 hour: 450 psi, 24 hours: 600 psi
Freeze-Thaw (ASTM C666): 300 cycles with no damage
Setting Time (Gilmore ASTM C266): Initial 15-18 minutes, Final 22-25 minutes

Cementitious Coating (Liner) Materials for Manhole Walls and Benches: All cementitious coating (liner) materials shall be specifically designed for the rehabilitation of manholes and other related waste water structures. Liner materials shall be cement based, poly fiber reinforced, shrinkage compensated, and enhanced with chemical admixtures and silicious aggregates. Liner materials shall be mixed with water per manufacturer's written specifications and applied using equipment specifically designed for either low pressure spray or centrifugal spin casting application of cement mortars. All cement liner materials must be capable of a placement thickness of ½" to 2" in a one pass monolithic application. All cementitious coating materials shall conform to the following 28-day minimum physical properties.

Compressive Strength (ASTM C109): 10000 psi
Flexural Strength (ASTM C293): 1200 psi
Permeability (AASHTO T-277): Not to exceed 400 coulombs
Freeze-Thaw (ASTM C666): No damage in minimum 300 cycles
Material Wet Density: Minimum 127 +1- 5 PCF

All cementitious coating materials shall be manufactured from 100% pure calcium aluminate cement and enhanced with high density chemically stable aggregates. Materials shall contain poly fiber reinforcement and chemical admixtures. Approved material shall be Silatec CAM Calcium Aluminate Mortar as manufactured by AW Cook Cement Products, Hoschton, GA, or approved equal.

**Interior Manhole Rehabilitation.**

Manhole Cleaning and Preparation: The floor and interior walls of the manhole shall be thoroughly cleaned and made free of all foreign materials including dirt, grit, roots, grease, sludge and all debris or material that may be attached to the wall or bottom of the manhole. High pressure water blasting with a minimum of 5000 psi shall be used to clean Free all foreign material within the manhole. When grease and oil are present within the manhole, an approved detergent or muriatic acid shall be used integrally with the high-pressure cleaning water. All materials resulting from the cleaning of the manhole shall be removed prior to application of the cement based coating. All loose or defective brick, grout, ledges, steps and protruding ledges shall be removed to provide an even surface prior to application of cement based coating.

Sealing Active Leaks: The work consists of hand applying a dry quick-setting cementitious mix designed to instantly stop running water or seepage in all types of concrete and masonry structures. The applicator shall apply material in accordance with manufacturer's recommendations and following specifications.

- The area to be repaired must be clean and free of all debris per the guidelines set forth in Manhole Cleaning and Preparation.
- Once cleaned, prepare crack or hole by chipping out loose material to a minimum depth and width of 3/4 inch.
- With gloved hand, place a generous amount of the dry quick-setting cementitious material to the active leak, with a smooth fast motion, maintaining external pressure for 30 seconds, repeat until leak is stopped.
- Proper application should not require any special mixing of product or special curing requirements after application.

Invert Repair: The work consists of hand mixing and applying a rapid setting, high early strength, non-shrink patching material to fill all large voids and repair inverts prior to spray lining of the manhole. For invert repairs, flow must be temporarily restricted by inflatable or mechanical plugs prior to cleaning.

The area to be repaired must be cleaned and free of all debris per the guidelines set forth herein. Mix water shall be clean potable water and require no additives or admixtures for use with cementitious patching materials. Cementitious material shall be mixed in a mortar tub or 5 gallon pail with water per manufacturer's specifications. Material should be mixed in small quantities, to avoid setting prior to placement in voids or inverts. Once mixed to proper consistency, the materials shall be applied to the invert or void areas by hand or trowel. In invert applications, care should be taken to not apply excessive material in the channel, which could restrict flow. Once applied, materials should be smoothed either by hand or trowel in order to facilitate flow.

Application of Cementitious Manhole Liner: The work consists of spray applying and/or centrifugally spin casting a cementitious based liner to the inside of the existing manhole. The necessary equipment and application methods to apply the cementitious based liner materials shall be only as approved by the material manufacturer.

Material shall be mixed with water in accordance with manufacturer's specifications. Once mixed to proper consistency, the materials shall be pumped via a rotor-stator style progressive cavity pump through a material plaster hose for delivery to the appropriate and / or selected application device.

Spray application of the cementitious material:

- Material hose shall be coupled to a low-velocity spray application nozzle. Pumping of the material shall commence and the mortar shall be atomized by the introduction of air at the nozzle, creating a low-velocity spray pattern for material application.
- Spraying shall be performed by starting at the manhole invert and progressing up the wall to the corbel and chimney areas
- Material shall be applied to a specified uniform minimum thickness no less than 1 inch. Material shall be applied to the bench area in such a manner as to provide for proper drainage without ponding.

Centrifugal spin casting application of the cementitious material:

- Material hose shall be coupled to a high-speed rotating applicator device. The rotating casting applicator shall then be positioned within the center of the manhole at either the top of the manhole chimney or the lowest point elevation corresponding to the junction of the manhole bench and walls.
- The high-speed rotating applicator shall then be initialized, and pumping of the material shall commence. As the mortar begins to be centrifugally cast evenly around the interior of the manhole, the rotating applicator head shall be raised and/or lowered at a controlled retrieval speed conducive to providing a uniform material thickness on the manhole walls.
- Controlled multiple passes are then made until the specified minimum finished

thickness is attained. If the procedure is interrupted for any reason, simply arrest the retrieval of the applicator head until flows are recommenced.

- Material thickness may be verified at any point with a depth gauge and shall be no less than a uniform 1 inch. If additional material is required at any level, the rotating applicator head shall be placed at that level and application shall recommence until that area is thickened.

Material shall be applied only when manhole is in a damp state, with no visible water dripping or running over the manhole walls.

The low-velocity spray nozzle and the centrifugal spin casting head may be used in conjunction to facilitate uniform application of the mortar material to irregularities in the contour of the manhole walls and bench areas.

Troweling of materials shall begin immediately following the spray application. Initial troweling shall be in an upward motion, to compress the material into voids and solidify manhole wall. Precautions should be taken not to overtrowel.

Curing will take place once the manhole cover has been replaced. It is important that the manhole cover is replaced no more than 10-20 minutes after troweling is complete to avoid moisture loss in the material due to sunlight and winds.

Material shall not be applied during freezing weather conditions. Material shall not be placed when the ambient temperature is 37 degrees Fahrenheit and falling or when the temperature is anticipated to fall below 32 degrees Fahrenheit during 24 hours.

**Quality Control.** The quality and performance of the material shall be maintained by the following measures to be determined and specified by the engineer or owner.

Performance Testing: The manhole will be visually inspected by the ENGINEER prior to acceptance. Any signs of defect or infiltration shall be repaired by the CONTRACTOR to the satisfaction of the ENGINEER prior to acceptance.

Material Testing: One 2 X 2 inch sample cube shall be taken for every 50 bags of material used. Samples shall be sprayed from nozzle, identified and sent to an independent test laboratory for compression strength testing as described in ASTM C-109.

**Warranty.** Product manufacturers shall warrant all materials to be free of defects product design and workmanship for a period of one year from date of purchase. Manufacturer will provide replacement materials for any product proven to be defective when applied in accordance with manufacturer's recommendations. Manufacturer's obligation shall be limited solely to product replacement.

This item shall include all labor, equipment and materials necessary to rehabilitate the

manhole as specified, including testing as required by the Village. Measurement for payment shall be made from the invert of the manhole to the bottom of the manhole frame, to the nearest quarter of a foot.

**Basis of Payment.** This work shall be paid for at the unit price per Vertical Foot for COMBINED MANHOLE LINING.

## PAY ITEM #68 & 69 – CONFLICT STRUCTURE

**Description**. This work shall consist of all work and materials required for the construction of CONFLICT STRUCTURES in accordance with the plans and as specified herein. The dimensions shown on the plans are measured to the inside face of the chamber walls.

**Materials**.

| | |
|---|---|
| Concrete: | IDOT Section 1020 Class PC (f' c min = 4,500 PSI) |
| Reinforcing Steel: | ASTM A 706, Grade 60 (IL Modified) |
| Frame and Grate: | Type 1 Frame, Closed Lid or Neenah Low Profile as determined by CONTRACTOR |
| Precast Riser/Slab: | IDOT Standard 602401 and 602601 |
| Steps: | IDOT Standard 602701 |
| Mastic Joint Sealer: | IDOT Section 1056 |
| Loading: | Soil Loads and AASHTO HS-20 |

**Construction Requirements**. Conflict structures are required where a combined/sannitary sewer will cross through the proposed precast storm sewer or structure.

The precast conflict structures shall be constructed in accordance with IDOT Section 504. All excavation and granular backfill material shall be in accordance with IDOT Section 502. The CONTRACTOR shall be responsible for verifying the size, inverts and locations of the sewers to be connected to the proposed conflict structures. The CONTRACTOR shall take necessary precautions to prevent the chamber from becoming buoyant during construction.

The CONTRACTOR has the option of constructing the conflict structure using cast in place concrete in accordance with IDOT Section 503, with prior permission from the VILLAGE. Cast in place concrete shall be IDOT class SI (f'c min = 3500 PSI).

The CONTRACTOR shall submit calculations and detailed shop drawings that are signed and sealed by a Structural Engineer licensed in the State of Illinois to the ENGINEER for review prior to ordering material or starting construction. The required thickness of the chambers bottom slab, sidewalls and top slab, and reinforcement details shall be shown on the shop drawings.

A temporary shoring plan, signed and sealed by a Structural Engineer licensed in the State of Illinois, shall be submitted to the ENGINEER with corresponding calculations and other necessary information, for all temporary shoring required to accommodate safety and other requirements during construction. Temporary shoring plan shall be approved by the ENGINEER prior to installation of temporary shoring.

Furnishing and installing ASTM-C923 resilient connectors shall be include in the cost of CONFLICT STRUCTURE.

Low profile frames and grates shall be installed where necessary. CONTRACTOR shall be responsible for determination of type of frames and grates required.

The cost of the SDR-18 PVC (AWWA C900) pipe crossing through the conflict structure and associated pipe cradle will be paid for separately. No pipe joints are allowed inside the conflict structure or within 2 feet of the outer structure wall. Joints shall be encased in a concrete collar whenever the joint is located within ten feet of the conflict structure. Concrete collars shall be paid for separately.

All labor, materials, excavation, granular backfill, granular subbase, concrete, reinforcement bars, frame and grate, cast iron steps, precast concrete riser and slab, temporary shoring and any miscellaneous items required for the conflict structure shall not be paid for separately, but shall be included in the lump sum price for the conflict structure.

**Basis of Payment**. This work shall be paid for at the contract lump sum price for CONFLICT STRUCTURE, for each conflict structure shown on the plans.

## PAY ITEM #70 – CONTINGENCY ALLOWANCE

**Description.** A contingency allowance pay item is provided as a part of this contract for the purpose of facilitating the completion of unforeseen or additional work not included in the contract as awarded, and which is determined by the Engineer to be necessary and germane to the contract.

Use of the contingency allowance will be at the discretion of the Engineer. The Engineer may, at the Engineer's discretion, use the contingency allowance for any of the following reasons:

(a) Facilitate a temporary payment allowance to the Contractor for work completed under existing contract pay items and for which completed quantities exceed contract quantities;

(b) Facilitate a temporary payment allowance to the Contractor for work completed beyond the scope of existing contract pay items; or

(c) Facilitate a temporary payment allowance to the Contractor for the purchase of equipment, materials or such other requisition as Engineer determines to be necessary for the completion of the Work.

Such use of the CONTINGENCY ALLOWANCE will be further subject to approval by the Village. The Village's decision with regard to use of the CONTINGENCY ALLOWANCE will be final.

A. Any payments made to Contractor under the CONTINGENCY ALLOWANCE will be considered temporary, and will only be retained by Contractor until such time that an authorization of contract changes can be approved and incorporated into the contract.

B. Contractor, in accepting payments made under the CONTINGENCY ALLOWANCE, agrees to the terms of this and other applicable special provisions. Contractor agrees to relinquish any monies and any claim to monies paid under the CONTINGENCY ALLOWANCE upon approval of an authorization of contract changes and payment for any work for which payment was previously made under the CONTINGENCY ALLOWANCE. Contractor further agrees to return any monies previously paid thereunder.

C. The CONTINGENCY ALLOWANCE pay item for this contract has been established with a unit of measurement in dollars, a quantity of 50,000.00, and a contract unit price of one dollar ($1.00), for a total CONTINGENCY ALLOWANCE contract price of fifty thousand dollars and no cents ($50,000.00). Bidder, in submitting a bid, accepts the quantity, contract unit price, and total contract price of the CONTINGENCY ALLOWANCE.

**Basis of Payment.** This work will be paid for at the contract unit price per dollar for CONTINGENCY ALLOWANCE. The total bid amount for this item will be $50,000.00.

## PAY ITEM #71 – DROP SANITARY MANHOLES

**Description.** This work shall consist of constructing drop manholes, together with the necessary cast iron frames and lids, in accordance with the detail in the plans and Section 602 of the STANDARD SPECIFICATIONS, except as specified herein.

Manholes constructed over proposed or existing sanitary sewers and which are indicated on the plans as sanitary manholes shall be provided with rubber gasketed couplings to ensure a watertight seal between pipe and manhole. The rubber gasketed couplings shall conform to ASTM Specification C-923. Rubber gasketed couplings shall be A-LOK Premium, or an approved equal. Manholes shall be provided with epoxy coated cast iron steps on 16" centers from frame to invert. The outside of the manhole shall be coated with a waterproofing membrane and external sealing bands conforming to ASTM C-877. The seal between the pipe and the structure to be bound by water tight hydraulic cement. The rubber gasketed couplings, waterproof coating, chimney seal, and steps shall be included in the cost of manholes and will not be paid for separately.

Drop manholes shall be constructed when the difference in invert elevations of incoming pipes is greater than 24 inches. The diameter of the drop pipe shall equal the diameter of the incoming sanitary sewer requiring the drop connection. The drop connection shall be encased in Class SI concrete after the manhole is installed. All concrete shall be included in the cost of this item.

Drop manholes constructed in a location where an existing manhole was removed shall include ten feet of pipe for each existing pipe location. Sanitary sewer pipe shall be PVC, SDR 26 conforming to ASTM D2241 or ductile iron, class 52, connections shall be made with non-shear mission couplings. The pipe, couplings, and trench backfill shall be included in the cost of manholes and will not be paid for separately.

When a proposed drop manhole is to be installed at the location of an existing manhole, the removal of the existing structure shall be included in this item. Removing existing manholes shall consist of the removal and disposal of existing manholes in accordance with Section 605 of the Standard Specifications.

**Method of Measurement and Basis of Payment.** This work shall be paid for at the Contract unit price per each for DROP SANITARY MANHOLES, of the specified diameter and frame and lid.

## PAY ITEM #72 – DUCTILE IRON WATER MAIN IN STEEL CASING

**Description.** This item includes the installation of ductile iron pipe water main with casing spacers into Steel casing pipe as shown on the plans. The water main and

casing pipe shall be installed in accordance with the Village's Standard Detail for Casing Pipe.

Water main pipe shall be in accordance with the DUCTILE IRON WATER MAIN Special Provision herein.

The water main (carrier pipe) shall be provided with a carrier pipe support system to position the carrier pipe at the indicated elevations within the casing. The carrier pipe support spacers shall be stainless steel manufactured by Cascade or an approved equal and shall be centered restrained position type. A minimum of 3 spacers shall be provided per carrier pipe length, on 6' centers

Once the carrier pipe has been installed and pressure tested, the annular space between the carrier pipe and casing pipe shall be blown full of sand or pea gravel and both ends shall be sealed. The end seals shall be constructed utilizing 6-inches of solid concrete block and non-shrink hydraulic grout or premanufactured rubber end seals hade specifically for this purpose.

The carrier pipe shall be installed by pushing and pulling it into place in such a manner that there is no opportunity for a joint to be opened. All joints shall have Field Lok gaskets, or and approved equal.

The cost of all pipe, spacers, casing seals, joint materials (including restrained joints where required), fittings, reducers, thrust blocks, bedding, haunching and backfill, all required appurtenances, hydrostatic pressure tests, leakage tests, disinfecting of the water main and excavation shall be included in the cost of this item. This item shall also include any and all items such as water pumps, gauges, meters and laboratory test costs, and all other items necessary to complete this work as specified.

**Basis of Payment.** This work will be paid for at the contract unit price per foot of DUCTILE IRON WATER MAIN IN STEEL CASING of the size specified.



**PAY ITEM #73 – HDPE CASING PIPE FOR WATER SERVICE, 5"**

**Description.** This work shall consist of installing HDPE casing pipe for long-side water services crossing beneath the proposed large diameter storm sewer as shown on the plans and as directed by the ENGINEER.

HDPE casing pipe shall be SDR 13.5 and shall conform to the requirements of AASHTO M 252 and M 294. HDPE casing pipe shall be 5 inches in diameter. Casing spacers shall be polyethylene casing insulators, Model CI, as manufactured by Advance Products & Systems, Inc., or approved equal. One casing spacer shall be installed for every 6 feet of HDPE casing pipe.

HDPE casing pipe and casing spacers shall be installed into place and shall include all things necessary, but not limited to, excavation sheeting/bracing, dewatering, pumping, backfilling and compacting all as required for the casing pipe installation.

The long-side water service shall be constructed and paid for in accordance with the WATER SERVICE CONNECTION (LONG), 1" special provision included herein.

**Basis of Payment.** This work shall be measured and paid for at the Contract unit price per foot of HDPE CASING PIPE FOR WATER SERVICE, 5".



## PAY ITEM #74 – IRRIGATION REPAIR

**Description.** This item covers work related to the repair of existing private irrigation systems unavoidably damaged by the Contractor. Repair of damage caused by Contractor negligence or carelessness, or that which is determined to have reasonably been avoidable with proper precaution or care, shall be the sole responsibility of the Contractor and will not be paid for. The Contractor's eligibility for payment for damaged irrigation systems shall be at the sole discretion of the Engineer.

**Construction Requirements.** All work shall conform to appropriate articles of the Standard Specifications, Village ordinances, Village details and specifications that are considered industry standards or standards set forth by a governing body for the furnishing, fabrication, installation or removal of the included items.

**Materials.** All furnished material shall conform to appropriate articles of the Standard Specifications, Village ordinances, Village details and specifications that are considered industry standards or standards set forth by a governing body for the furnishing, fabrication, installation or removal of the included items.

**Disposal of Material & Safety.** All materials resulting from this extra work shall be disposed of at the contractor's expense, outside the limits of the job, at locations acceptable to the Engineer and in accordance with Section 107.01 of the Standard Specifications.

**Method of Measurement.** This item shall be measured for payment in the appropriate dimensions to for the work performed, as determined by the Engineer.

**Basis of Payment.** The Contractor will include in his bid a sum of 25,000 units at $1 per unit for a total of $25,000.00 for IRRIGATION REPAIR. This item will be used at the sole discretion of the Engineer and shall be based upon reasonable cost proposals provided by the Contractor.

## PAY ITEM #75 – JUNCTION CHAMBER (STR #33)

**Description**. This work shall consist of the all work and materials required for the construction of the precast concrete JUNCTION CHAMBERS in accordance with the plans and as specified herein. The dimension shown on the plans are measured to the inside face of the chamber walls.

**Materials**.

| | |
|---|---|
| Concrete: | IDOT Section 1020 Class PC (f' c min = 4,500 PSI) |
| Reinforcing Steel: | ASTM A 706, Grade 60 (IL Modified) |
| Frame and Grate: | Type 1 Frame, Closed Lid or Neenah Low Profile as determined by CONTRACTOR |
| Precast Riser/Slab: | IDOT Standard 602401 and 602601 |
| Steps: | IDOT Standard 602701 |
| Mastic Joint Sealer: | IDOT Section 1056 |
| Loading: | Soil Loads and AASHTO HS-20 |

**Construction Requirements**. The precast junction chambers shall be constructed in accordance with IDOT Section 504. All excavation and granular backfill material shall be in accordance with IDOT Section 502. The CONTRACTOR shall be responsible for verifying the size, inverts and locations of the sewers to be connected to the proposed Junction Chamber. A cast in place concrete bench slab shall be poured up to the inverts of the pipes to prevent standing water on the bottom slab. The CONTRACTOR shall take necessary precautions to prevent the chamber from becoming buoyant during construction.

The CONTRACTOR has the option of constructing the junction chamber using cast in place concrete in accordance with IDOT Section 503, with prior permission from the VILLAGE. Cast in place concrete shall be IDOT class SI (f'c min = 3500 PSI).

The CONTRACTOR shall submit calculations and detailed shop drawings that are signed and sealed by a Structural Engineer licensed in the State of Illinois to the ENGINEER for review prior to ordering material or starting construction. The required thickness of the chambers bottom slab, sidewalls and top slab, and reinforcement details shall be shown on the shop drawings.

A temporary shoring plan, signed and sealed by a Structural Engineer licensed in the State of Illinois, shall be submitted to the ENGINEER with corresponding calculations and other necessary information, for all temporary shoring required to accommodate safety and other requirements during construction. Temporary shoring plan shall be approved by the ENGINEER prior to installation of temporary shoring.

The construction of the proposed junction chamber will impact the Village's existing SCADA system located in the south parkway at 405 Highland Avenue. The system is controlled by an existing electrical box located at the southeast corner of Highland Avenue and Riverside Drive, and is powered by the post mounted solar panel located to the east. The CONTRACTOR will be responsible for relocating the existing electrical line that connects the solar panel with the electrical control box. If necessary, the CONTRACTOR shall provide temporary power to the electrical control box while the electrical line is being relocated. This work shall not be paid for separately, and all work involved with relocating the line and providing temporary power to the system shall be included in the cost of the proposed junction chamber (STR #33).

All labor, materials, excavation, granular backfill, granular subbase, concrete, reinforcement bars, frame and grate, cast iron steps, precast concrete riser and slab, temporary shoring and any miscellaneous items required for the junction chamber shall not be paid for separately, but shall be included in the lump sum price for JUNCTION CHAMBER.

**Basis of Payment**. This work shall be paid for at the contract lump sum price for JUNCTION CHAMBER (STR #33).

## PAY ITEM #76 – LANDSCAPE RESTORATION – SEEDING

**Description.** This work shall consist of preparing the ground surface, furnishing and applying topsoil to a minimum 4" depth, fertilizing the areas to be seeded, and furnishing and placing class 1 seeding as specified in the plans. All work shall be in accordance with Sections 202, 211, and 250 of the Standard Specifications, and as specified herein.

LANDSCAPE RESTORATION – SEEDING shall be placed after all proposed grading operations at 419 Monterey Avenue are complete.

All fine grading of topsoil shall be included in this item. The topsoil shall be installed to meet the lines and grades shown on the plans.

Excess spoil removed from parkways shall be immediately removed from the site and shall at no time be stored on the roadway. All seeding shall be placed before the final roadway surface is installed.

The topsoil shall be free of large roots, brush, sticks, weeds, stones larger than ½" in diameter and any other litter. The topsoil shall be spread to a smooth compacted uniform thickness of not less than 4".

Fertilizer nutrients shall be applied in accordance with Section 252.03 of the Standard Specifications and shall be included in the cost for LANDSCAPE RESTORATION – SEEDING.

Erosion control blanket shall be installed after seeding has been placed. Erosion control blanket shall be paid for separately.

**Method of Measurement and Basis of Payment.** This work shall be measured in place and paid for at the contract unit price per square yard for LANDSCAPE RESTORATION – SEEDING.



## PAY ITEM #77 – MODIFY EXISTING COMBINED SEWER MANHOLE

**Description.** This work will consist of connecting a new sanitary sewer to an existing combined sewer manhole. This item includes all modifications to the existing structure necessary to facilitate the improvement, including but not limited to modifying the existing manhole to accept the proposed sewer and sealing around the opening after the sewer is installed to the satisfaction of the ENGINEER.

This work shall take place prior to COMBINED MANHOLE LINING operations. The proposed sewer shall be connected to the existing manhole using methods approved by the ENGINEER. The opening created for connection of the proposed sewer to the manhole shall be just large enough to fit the entire outside diameter of the pipe. The opening shall then be sealed and made watertight to the satisfaction of the engineer.

Any holes in the manhole created by sewer removal operations shall plugged in accordance with PLUGGING EXISTING MANHOLES AND PIPES.

Any portion of the manhole damaged during construction shall be repaired to the satisfaction of the ENGINEER at the CONTRACTOR's expense.

**Basis of Payment.** This work will be paid for per each for MODIFY EXISTING COMBINED SEWER MANHOLE.

## PAY ITEM #78 – PARKWAY RESTORATION – SODDING, SALT TOLERANT

**Description.** This work shall consist of preparing the ground surface, furnishing and applying topsoil to a minimum 4" depth, fertilizing the areas to be sodded, and furnishing

and placing salt tolerant sod as specified in the plans. All work shall be in accordance with Sections 202, 211, and 252 of the Standard Specifications, and as specified herein.

CONTRACTOR shall locate all buffalo boxes and sanitary cleanouts prior to excavating for topsoil. CONTRACTOR shall place a 4' lath behind each box and cleanout to identify its location. A list of all b-boxes which cannot be found shall be provided to the ENGINEER.

Any excavation required to trim landscaped areas to the newly required grade shall be included in the cost of this item.

Excess spoil removed from parkways shall be immediately removed from the site and shall at no time be stored on the roadway. All sod shall be placed before the final roadway surface is installed.

The topsoil shall be free of large roots, brush, sticks, weeds, stones larger than ½" in diameter and any other litter. The topsoil shall be spread to a smooth compacted uniform thickness of not less than 4".

Fertilizer nutrients shall be applied in accordance with Section 252.03 of the Standard Specifications and shall be included in the cost for PARKWAY RESTORATION – SODDING, SALT TOLERANT.

**Method of Measurement and Basis of Payment.** This work shall be measured in place and paid for at the contract unit price per square yard for PARKWAY RESTORATION – SODDING, SALT TOLERANT.



## PAY ITEM #79 – POST-CONSTRUCTION SEWER TELEVISING

**Description.** This work shall consist of cleaning and televising new storm and sanitary sewers constructed as part of this project.

Cleaning sewers shall include high pressure jetting, root cutting, bucketing and any other actions necessary to remove all obstructions impeding flows.

**Deliverables.** The CONTRACTOR shall provide the ENGINEER a narrated video tape of the sewer after cleaning. The ENGINEER will use this tape to verify that the sewer was installed to the satisfaction of the VILLAGE.

Post-construction sewer televising video recordings will be provided as electronic files of .avi, .mp4, .m4v, .mkv, .wmv, or .mpg file format, or of such other file format as may be approved by Engineer. Sewer televising video recordings will be provided as independent digital container format files, which container files will include all video,

audio, and other electronic information necessary to view the preconstruction video recording as intended.

Video DVD will be considered an unacceptable format for providing post-construction sewer televising video recordings, and will be rejected.

Post-construction sewer televising video electronic files will be provided on a portable electronic media device or devices of one of the following types: USB flash drive, SD flash memory card, CF flash memory card, data DVD, external hard drive, or such other portable electronic media device as may be approved by Engineer. Post-construction sewer televising video electronic files may also be provided via online file sharing, cloud storage, File Transfer Protocol (FTP), or other online or network file transfer methods if approved by Engineer.

All recordings shall be in accordance with NASSCO standards and completed by a PACP certified individual.

Post-construction sewer televising video electronic files will be accompanied by corresponding logs which document the dates, times, and locations (corresponding manholes/structures) covered by each video recording electronic file.

**Basis of Payment.** This work will be paid for at the contract lump sum price for POST-CONSTRUCTION SEWER TELEVISING.



**PAY ITEM #80 – PRE-CONSTRUCTION VIDEO RECORDING**

**Description.** This work shall consist of performing color video and audio recording of the project area and other areas which may be impacted by construction.

Pre-construction video recordings will include coverage of the project area and all other areas which may be impacted by construction. Video recordings will also include construction easements when applicable. Video recordings will provide a visual record of all physical features within those areas, including, but not limited to, roadways, pavements, curbs, gutters, driveways, driveway aprons, sidewalks, carriage walks, parkways, trees, landscaping, shrubbery, plantings, landscaping walls, retaining walls, signs, sign posts, fences, utility poles, light poles, utilities, equipment, manholes, b-boxes, cleanouts, valves, curb structures, pipelines, buildings, mailboxes, and any other features located within the project area.

Video recordings will begin with an audio narrative which provides the current date and time, the name of the Village and name of project, and a description of both the starting location and the location or locations to be recorded, including street name or names, street addresses, and any additional information which may be necessary to describe the location and subject of viewing.

Video recordings will maintain viewer orientation by means of an audio commentary in the audio track of each video recording which provides an explanation of what is being viewed; and by videotaping landmarks and readily identifiable objects, including property addresses, street signs, or other appropriate objects, at appropriate intervals.

Pre-construction video recordings will be recorded at a rate of travel not exceeding 50 feet per minute, and zooming and panning rates will be controlled to provide clarity of features during playback. The finished product will be provided with bright, clear pictures and accurate colors free from distortion, tearing, rolls, or other forms of picture imperfection. The audio will have proper volume and clarity. All recordings will be performed at times of satisfactory visibility, and when no more than 10 percent of ground is obscured by snow, leaves, or other cover.

If any element within or portion of the project area is not adequately documented by the pre-construction video recording so as to definitively demonstrate its condition prior to the start of construction, Contractor will assume responsibility for the repair, restoration or replacement of that element or portion of the project area. Such repair, restoration or replacement will be to equal or better condition than previously existing, and will further comply with all standards and provisions which govern the work in question.

**Schedule.** Preconstruction video recording will be performed according to the following schedule:

(a) Pre-construction video recording will be completed after a Notice to Proceed has been issued.

(b) Pre-construction video recording will be completed after the Joint Utility Locating Information for Excavators (JULIE) request for the project area has cleared.

(c) Pre-construction video recording will be completed before any equipment, materials, or other items are delivered to the site.

(d) Pre-construction video recording will be completed no more than 7 chargeable days prior to the start of construction.

(e) Pre-construction video recording will be completed, the required pre-construction video recording deliverables will be submitted to the Engineer, and the Engineer will review and issue written approval of the pre-construction video recording before any activity other than utility locating will be permitted to start. Such activity will include, but not be limited to, delivery of materials and equipment, installation of traffic control and erosion control, and completion of construction layout and tree protection. No days will be charged against the contract time while the video is under review by the Engineer, including the day the deliverables are submitted and the day a

response is provided. If the pre-construction video recording or any portions thereof are rejected, the contract time will commence to run until revisions are submitted.

(f) Pre-construction video recording will be submitted to Engineer for review prior to commencement of any construction, and receive acceptance of recordings prior to commencement of construction. Any areas found not acceptable to the Owner will be re-recorded at no additional cost to the contract.

**Deliverables.** Video will be high-definition, with a minimum resolution of 1280 × 720 pixels per frame. Video will be filmed in a landscape aspect ratio. Video filmed in a portrait aspect ratio will be considered unacceptable and will be rejected.

Preconstruction video recordings will be provided as electronic files of .avi, .mp4, .m4v, .mkv, .wmv, or .mpg file format, or of such other file format as may be approved by Engineer. Preconstruction video recordings will be provided as independent digital container format files, which container files will include all video, audio, and other electronic information necessary to view the preconstruction video recording as intended.

Video DVD will be considered an unacceptable format for providing preconstruction video recordings, and will be rejected.

Pre-construction video recording electronic files will be provided on a portable electronic media device or devices of one of the following types: USB flash drive, SD flash memory card, CF flash memory card, data DVD, external hard drive, or such other portable electronic media device as may be approved by Engineer. Preconstruction video recording electronic files may also be provided via online file sharing, cloud storage, File Transfer Protocol (FTP), or other online or network file transfer methods if approved by Engineer.

Pre-construction video recording electronic files will be accompanied by corresponding logs which document the dates, times, and locations covered by each preconstruction video recording electronic file.

Contractor shall maintain copies of all items submitted to Engineer for Contractor's own use and record.

**Method of Measurement.** This work will be measured for payment on a lump sum basis. No measurement will be made of the individual components of this effort.

**Basis of Payment.** Pre-construction video recording will be paid for at the contract lump sum price for PRE-CONSTRUCTION VIDEO RECORDING.

## PAY ITEM #81-83 – RCP PIPE FITTING

**Description**. This work shall be completed in accordance with Section 550 of the STANDARD SPECIFICATIONS, and the STANDARD SPECIFICATIONS for Water and Sewer Main Construction in Illinois (Seventh Edition), except as modified herein:

RCP PIPE FITTINGS shall consist of furnishing and installing RCP storm sewer base tees and bends of the dimensions shown on the plans. CONTRACTOR shall submit shop drawings and receive approval prior to purchasing pipe fittings. Pipe fittings shall be installed to the angle and grade shown on the plans. Where shown on the plans, precast concrete risers shall be provided by the CONTRACTOR as necessary to bring the pipe fittings up to the proposed grade. Risers shall be installed such that no more than 12" of adjusting rings are required to bring the rim up to proposed grade.

Any RCP PIPE FITTINGS located in the curb line shall be installed with Type 11 frame and grates. RCP PIPE FITTINGS located outside of the curb line shall be installed with Type 1 frames and closed lids. Low profile frames and grates shall be installed where necessary. CONTRACTOR shall be responsible for determination of type of frames and grates required.

The CONTRACTOR is responsible for connecting all existing storm sewers to the proposed pipe fittings as directed by the ENGINEER. Up to 10 feet of new sewer (if required) for each existing sewer tying into the proposed pipe fitting shall be considered included in the bid price for this pay item. The CONTRACTOR shall be responsible for verifying the size, inverts and locations of the existing sewers to be connected to the proposed pipe fittings. Any existing storm sewers that are damaged during construction shall be replaced in kind by the CONTRACTOR at no cost to the VILLAGE. In addition, the CONTRACTOR will be responsible for determining which structures require precast concrete flat slab tops in accordance with Standard Drawing 602601. Flat slab tops will only be allowed where a conical section cannot be installed due to a lack of clearance.

All excavation, backfilling (including trench backfill), precast concrete riser sections, concrete rings, flat slab tops (when required), and existing sewer connections required to complete the work shall be included in the cost of this item. The pay limits for STORM SEWERS shall be exclusive of the RCP PIPE FITTING length (i.e. base tees and bends).

**Method of Measurement and Basis of Payment.** This work shall be paid for at the contract unit price per each for RCP PIPE FITTING (NO RISER) and RCP PIPE FITTING (WITH RISER) of the size identified on the plans together with the specified frames and grates.

## PAY ITEM #84 – SANITARY MANHOLE, TYPE A

**Description.** This work shall consist of constructing manholes, together with the necessary cast iron frames and lids, in accordance with the detail in the plans and Section 602 of the STANDARD SPECIFICATIONS, except as specified herein.

Manholes constructed over proposed or existing sanitary sewers and which are indicated on the plans as sanitary manholes shall be provided with rubber gasketed couplings to ensure a watertight seal between pipe and manhole. The rubber gasketed couplings shall conform to ASTM Specification C-923. Rubber gasketed couplings shall be A-LOK Premium, or an approved equal. Manholes shall be provided with epoxy coated cast iron steps on 16" centers from frame to invert. The outside of the manhole shall be coated with a waterproofing membrane and external sealing bands conforming to ASTM C-877. The seal between the pipe and the structure to be bound by water tight hydraulic cement. The rubber gasketed couplings, waterproof coating, chimney seal, and steps shall be included in the cost of manholes and will not be paid for separately.

Sanitary manholes shall be tested for watertightness by means of a vacuum test in accordance with ASTM C-1244 prior to acceptance by the ENGINEER.

Manholes constructed in a location where an existing manhole was removed shall include five feet of pipe for each existing pipe location. Sanitary sewer pipe shall be PVC, SDR 26 conforming to ASTM D2241 or ductile iron, class 52, connections shall be made with non-shear mission couplings. The pipe, collar, couplings, and trench backfill shall be included in the cost of manholes and will not be paid for separately.

When a proposed manhole is to be installed at the location of an existing manhole, the removal of the existing structure shall be included in this item. Removing existing manholes shall consist of the removal and disposal of existing manholes in accordance with Section 605 of the Standard Specifications.

**Method of Measurement and Basis of Payment.** This work shall be paid for at the Contract unit price per each for SANITARY MANHOLE, TYPE A, of the specified diameter and frame and lid.

## PAY ITEM #85 – SANITARY SEWER SERVICE COMBINATION CLEANOUT CHECK VALVE

**Description.** This work shall consist of furnishing and installing a combination cleanout check valve on a new or existing sanitary sewer service line at the locations shown in the plans or as directed by the Engineer. This work shall be in accordance with Section 563 of the Standard Specifications and with the Standard Specifications for Water and Sewer Construction in Illinois, except as modified herein.

This work may consist of either the standalone installation of a combination cleanout check valve on an existing sanitary sewer service line, or the installation of a combination cleanout check valve on a new sanitary sewer service line in conjunction with the installation of the new sanitary sewer service line.

**Materials.** Combination cleanout check valves shall be RectorSeal Clean Check Extendable Backwater Valve, 6" PVC, Model #31805, or approved equal.

Cleanout riser pipes shall be shall be polyvinyl chloride (PVC) of the diameter and type required.

Sanitary sewer service line pipe shall be polyvinyl chloride (PVC) conforming to ASTM D-2241 with a Standard Dimension Ratio (SDR) equal to 26 and gasketed joints conforming to ASTM D-3212. Sanitary sewer service line pipe shall be of the same diameter as the sanitary sewer service line on which the combination cleanout check valve is to be installed. All supplied pipe shall be from the same manufacturer.

Pipe couplings shall be Fernco Shielded RC Series Couplings, Mission Rubber Company Flex-Seal ARC Sewer Repair Couplings, or approved equal. Pipe couplings shall be non-shear and shall be equipped with stainless steel bands.

**Construction.** The combination cleanout check valve shall be located a minimum of 4 ft. behind the back of curb. The height of the combination cleanout check valve riser pipe shall be such that the cap of the combination cleanout check valve is level with finished grade.

The combination cleanout check valve shall be assembled and installed in accordance with the manufacturer's specifications. Contractor shall provide all materials, fittings, and adapters necessary to assemble the combination cleanout check valve and to connect it to the sanitary sewer service line.

Following installation, the combination cleanout check valve shall be tested by the Contractor to confirm that there is positive flow through the sanitary sewer service line and combination cleanout check valve towards the sanitary sewer main.

Excavation, bedding, and backfilling will not be paid for separately but shall be included in the cost of this work.

**Basis of Payment.** This work will be paid for at the contract unit price per each for SANITARY SEWER SERVICE COMBINATION CLEANOUT CHECK VALVE.

## PAY ITEM #86 – SANITARY SERVICE CONNECTION

**Description.** This work shall consist of replacing existing sanitary service connections at locations of sanitary service removal and replacement. The work shall be done in accordance with applicable portions of Section 563 of the Standard Specifications and as specified herein.

The exact locations of existing sewer and sewer connections are to be verified in the field by the CONTRACTOR. The Village will not mark locations of existing sanitary services.

The CONTRACTOR shall install a new polyvinyl chloride tee fitting at the location of the connection to the existing sewer main, and shall remove and replace, if necessary, a sufficient length of existing service pipe to re-establish the service. All connections to existing pipes shall be made with non-shear mission couplings. The couplings shall be equipped with stainless steel bands. When connecting to existing large diameter sewers, a Inserta-TEE, or approved equal, can be used to effect the connection to the existing main. The contractor shall receive approval from the ENGINEER prior to using an Inserta-TEE, or approved equal. All associated costs shall be included in the contract unit price for the sanitary sewer service connection.

The existing sanitary sewer main shall be cut by an approved method. Excavation, bedding, and backfilling will not be paid for separately but shall be included in the cost of this work.

Connecting sanitary services to proposed sanitary sewers shall be included in the cost of SANITARY SEWER, PVC.

**Basis of Payment.** This work will be paid for at the contract unit price per each for SANITARY SERVICE CONNECTION, regardless of sewer diameter.

## PAY ITEM #87 – SANITARY SERVICE REPLACEMENT

**Description:** This work shall consist of the complete removal or abandonment of existing service as directed by the ENGINEER and replacing and reconnecting a new PVC, SDR-26 (ASTM D2241) sanitary service to the existing sanitary sewer.

New sanitary service pipe should be cut in cleanly at the minimum distance from the conflicting improvement that provides for elimination of the conflict, or a location determined by the ENGINEER. A rubber, non-shear mission coupling with stainless steel bands should be used to effect the connection between new service and existing service pipes.

Sanitary services shall be connected to existing or proposed sanitary sewers where shown on the plans. The exact locations of existing sewer and sewer connections are to be verified in the field by the CONTRACTOR. The Village will not mark locations of existing sanitary services, and the locating of existing services shall be the responsibility of the CONTRACTOR. The slope from the right-of-way to the sewer connection shall be continuous and constant, except as otherwise authorized by the ENGINEER. The CONTRACTOR shall be responsible for verifying the elevation and slope of the proposed service prior to the installation of each service.

The CONTRACTOR shall install a new polyvinyl chloride tee fitting at the location of the connection on the mainline sanitary sewer. At locations where sanitary services will be connected to new mainline sanitary sewer, connection to the main with a polyvinyl chloride tee fitting shall be included in the cost of SANITARY SEWER, PVC. When connecting sanitary services to existing mainline sewers, installation of this fitting shall be paid for as SANITARY SERVICE CONNECTION.

The services shall be replaced from the new fitting at the mainline sanitary sewer to the right-of-way line, using SDR-26 polyvinyl chloride pipe conforming to ASTM D2241 of the same diameter as the existing connection. The CONTRACTOR is to ensure positive flow from the right-of-way to the connection to the mainline sewer.

For instances where the existing sanitary sewer service pipe is excavated and found to be 4-inches in diameter, or less, the sewer service pipe shall be replaced with 6-inch PVC, SDR-26 between the wye or tee connection at the sewer main and the cleanout connection at the property line, or as otherwise directed by the Engineer. Connection to the existing 4-inch (or less) diameter sewer service pipe shall be made using a transitional coupling in conformance with the requirements specified above.

Existing services shall be removed or abandoned in accordance with ABANDON EXISTING SEWERS AND WATER MAIN or EXISTING SEWER REMOVAL. Any holes in existing manholes or pipes that result from abandoning or removing sanitary services shall be plugged in accordance with PLUGGING EXISTING MANHOLES AND PIPES.

Backfill shall be in accordance with Section 208 of the Standard Specifications and shall be paid for as TRENCH BACKFILL.

**Method of Measurement and Basis of Payment.** Pay limits for removal and replacement of sanitary services for this item shall extend from the connection at the sanitary main to the existing right-of-way. This work will be measured and paid for at the contract unit price per foot for SANITARY SERVICE REPLACEMENT, regardless of service diameter.

## PAY ITEM #88 – SANITARY SERVICE REPLACEMENT (C900)

**Description:** This work shall consist of the complete removal or abandonment of existing service as directed by the ENGINEER and replacing and reconnecting a new PVC, SDR-18 (AWWA C900) sanitary service to the existing sanitary sewer. This item shall be used when the sanitary service is to be constructed beneath the proposed utility.

New sanitary service pipe should be cut in cleanly at the minimum distance from the conflicting improvement that provides for elimination of the conflict, or a location determined by the ENGINEER. A rubber, non-shear mission coupling with stainless steel bands should be used to effect the connection between new service and existing service pipes.

Sanitary services shall be connected to existing or proposed sanitary sewers where shown on the plans. The exact locations of existing sewer and sewer connections are to be verified in the field by the CONTRACTOR. The Village will not mark locations of existing sanitary services, and the locating of existing services shall be the responsibility of the CONTRACTOR. The slope from the right-of-way to the sewer connection shall be continuous and constant, except as otherwise authorized by the ENGINEER. The CONTRACTOR shall be responsible for verifying the elevation and slope of the proposed service prior to the installation of each service.

The CONTRACTOR shall install a new polyvinyl chloride tee fitting at the location of the connection on the mainline sanitary sewer. At locations where sanitary services will be connected to new mainline sanitary sewer, connection to the main with a polyvinyl chloride tee fitting shall be included in the cost of SANITARY SEWER, PVC. When connecting sanitary services to existing mainline sewers, installation of this fitting shall be paid for as SANITARY SERVICE CONNECTION.

The services shall be replaced from the new fitting at the mainline sanitary sewer to the right-of-way line, using SDR-18 polyvinyl chloride pipe conforming to AWWA C900 of the same diameter as the existing connection, with joints conforming to ASTM D3139 and F477. The CONTRACTOR is to ensure positive flow from the right-of-way to the connection to the mainline sewer.

For instances where the existing sanitary sewer service pipe is excavated and found to be 4-inches in diameter, or less, the sewer service pipe shall be replaced with 6-inch PVC, SDR-18 (C900), between the wye or tee connection at the sewer main and the cleanout connection at the property line, or as otherwise directed by the Engineer. Connection to the existing 4-inch (or less) diameter sewer service pipe shall be made using a transitional coupling in conformance with the requirements specified above.

Existing services shall be removed or abandoned in accordance with ABANDON EXISTING SEWERS AND WATER MAIN or EXISTING SEWER REMOVAL. Any holes

in existing manholes or pipes that result from abandoning or removing sanitary services shall be plugged in accordance with PLUGGING EXISTING MANHOLES AND PIPES.

Backfill shall be in accordance with Section 208 of the Standard Specifications and shall be paid for as TRENCH BACKFILL.

**Method of Measurement and Basis of Payment.** Pay limits for removal and replacement of sanitary services for this item shall extend from the connection at the sanitary main to the existing right-of-way. This work will be measured and paid for at the contract unit price per foot for SANITARY SERVICE REPLACEMENT (C900), regardless of service diameter, for sanitary services constructed beneath the proposed utility, or as directed by the ENGINEER.



## PAY ITEM #89-91 – SANITARY SEWER, PVC (C900)

**Description.** This work shall consist of placing new PVC sanitary sewer pipe in accordance with AWWA C900 at locations shown on the plans and as directed by the ENGINEER. This work shall conform to the STANDARD SPECIFICATIONS for Water and Sewer Main Construction in Illinois (Seventh Edition), except as modified herein:

Sewer shall be SDR-18 PVC pipe conforming to AWWA C900 (latest edition) with joints conforming to ASTM D3139 and ASTM F477.

Sewers shall be tested in accordance with 31-1.13 of the Standard Specifications for Sewer and Water Construction in Illinois. All sewer piping shall be tested for leakage by means of a low pressure air test.

Sanitary sewers shall be installed on a minimum of 4-inches of granular bedding. Once the pipe has been installed the Contractor shall place bedding to 12-inches over the crown of the pipe. Bedding material will not be paid for separately but shall be included in the cost of this item.

Connections to existing sewer pipe shall be made with Non-Shear couplings. The couplings shall be equipped with stainless steel bands.

All labor; excavation; materials, including pipe, structure connections, fittings and bedding; backfilling, compacting and removal of spoils; dewatering; and equipment necessary to complete the work as specified herein shall be included in the cost of the item.

Trench backfill shall be paid for separately and installed in accordance with TRENCH BACKFILL, as specified elsewhere in these Special Provisions and as shown on the detail in the plans.

**Measurement and Payment.** This work shall be measured and paid for at the contract unit price per lineal foot for SANITARY SEWER, PVC (C900) of the diameter specified.

## PAY ITEM #92 – SANITARY SEWER, PVC

**Description.** This work shall consist of placing new PVC sanitary sewer pipe at locations shown on the plans and as directed by the ENGINEER.

**Construction Requirements.** The excavation, bedding, pipe laying, backfilling, and clean up shall be completed in accordance with the applicable portions of Divisions II and III of the "Standard Specifications for Water and Sewer Main Construction in Illinois". The bedding for the pipe shall be placed from 4" below the pipe to 12" over the top of the pipe. The cost for the bedding shall be included in the work.

Sanitary sewer shall be SDR 26 polyvinyl chloride (PVC) pipe conforming to ASTM D-2241 with joints conforming to ASTM D-3212 or D-2855.

Connections to existing sewer pipe shall be made with Non-Shear couplings. The couplings shall be equipped with stainless steel bands.

Sanitary services shall be connected to the new sewer using PVC tee fittings. The sanitary service shall be connected to the tee using non-shear couplings. All fittings required and couplings required to effect connections between the new sanitary sewer and sanitary services shall be included in the cost of SANITARY SEWER, PVC. All sanitary service pipe shall be paid for as SANITARY SERVICE REPLACEMENT.

All labor; excavation; materials, including pipe, structure connections, fittings and bedding; backfilling, compacting and removal of spoils; dewatering; and equipment necessary to complete the work as specified herein shall be included in the cost of the item.

Trench backfill shall be paid for separately and installed in accordance with TRENCH BACKFILL, as specified elsewhere in these Special Provisions and as shown on the detail in the plans.

**Measurement and Payment.** This work will be paid for at the contract unit price per foot for SANITARY SEWER, PVC of the diameter specified.

## PAY ITEM #93 & 94 – SANITARY SEWER, RCP

**Description.** This work shall consist of replacing existing sanitary sewer with new reinforced concrete sanitary sewer pipe at locations shown on the plans and as directed by the ENGINEER.

**Construction Requirements.** The excavation, bedding, pipe laying, backfilling, and clean up shall be completed in accordance with the applicable portions of Divisions II and III of the "Standard Specifications for Water and Sewer Main Construction in Illinois". The bedding for the pipe shall be placed from 4" below the pipe to 12" over the top of the pipe. The cost for the bedding shall be included in the work.

Sanitary sewer shall be reinforced concrete pipe in accordance with ASTM C76 with rubber gaskets conforming to ASTM C443.

Connections to existing sewer pipe shall be made with concrete collars. Concrete collars shall be paid for separately.

If sanitary services exist on sections of sanitary sewer to be replaced with new RCP, the services shall be connected to the new portion of sewer pipe in accordance with the special provision for SANITARY SERVICE CONNECTION.

All labor; excavation; materials, including pipe, structure connections and bedding; backfilling, compacting and removal of spoils; dewatering; and equipment necessary to complete the work as specified herein shall be included in the cost of the item.

Any bypass pumping required to complete this work shall be included in the cost of this item.

Trench backfill shall be paid for separately and installed in accordance with TRENCH BACKFILL, as specified elsewhere in these Special Provisions and as shown on the detail in the plans.

**Measurement and Payment.** This work will be paid for at the contract unit price per foot for SANITARY SEWER, RCP of the diameter specified.

## PAY ITEM #95 – SHUTDOWN WATER MAIN CONNECTION

**Description.** This work shall consist of making non-pressure, cut-in connections to existing water mains. This work shall be in accordance with Section 561 and Section 563 of the Standard Specifications and with the Standard Specifications for Water and Sewer Construction in Illinois, except as modified herein.

**Materials.** Water main pipe shall be ductile iron pipe conforming to ANSI/AWWA C151/A21.51, Class 52 standard thickness, with gasketed bell and spigot type push-on joints conforming to ANSI/AWWA C111/A21.11, of the diameter required. Pipe shall have an interior cement mortar lining conforming to AWWA C104.

Water main fittings shall be ductile iron conforming to ANSI/AWWA C110/A21.10 or ANSI/AWWA C153/A21.53. Fittings shall be cement mortar lined and tar coated in

accordance with AWWA C104. Fittings shall have mechanical joint end connections unless otherwise specified. Fittings shall include tees, crosses, reducers, and all other fittings as may be necessary to construct a connection to an existing water main.

Water main couplings shall be Krausz Hymax Grip coupling restraints of the diameter required, or approved equal.

Mechanical joint restraints shall be EBAA Iron, Inc., MEGALUG Mechanical Joint Restraints for Ductile Iron Pipe, or approved equal.

Tie rods shall be stainless steel threaded rods ¾ in. diameter.

All bolts, tie rods, nuts, washers, and other hardware and fasteners to be installed below grade shall be stainless steel. Bolts and tie rods shall be Type 304 stainless steel. Nuts and washers shall be Type 300 stainless steel.

**Construction.** The connection to the existing water main shall be accomplished by the use of fittings of the proper types and sizes, sections of new water main pipe of the proper lengths and diameters, water main couplings of the proper sizes, and mechanical joint restraints. The connection shall be made in the most direct configuration possible. The connection may be made to the existing water main or to existing valves or fittings.

All pipe and fittings shall be disinfected prior to their installation in accordance with the Water and Sewer Specifications.

The water main pipe and fittings shall be placed on a bedding of crushed aggregate of CA-7 or CA-11 gradation having a minimum thickness of 4 in. The bedding shall be placed to a minimum of 12 in. above the water main pipe and fittings.

Thrust blocking of all fittings shall be in accordance with Article 41-2.08 of the Water and Sewer Specifications and the details in the plans.

Excavation, bedding, and backfilling will not be paid for separately but shall be included in the cost of this work.

**Method of Measurement.** This work will be measured for payment as each connection made, regardless of the depth of the connection, the number or type of fittings required, the size of water main, or any other factors. No separate measurement will be made of pipe, fittings, couplings, hardware, or any other components.

**Basis of Payment.** This work will be paid for at the contract unit price per each for SHUTDOWN WATER MAIN CONNECTION.

## PAY ITEM #96 – SITE DEWATERING

**Description.** Work consists of providing labor, tools, equipment, and materials necessary to dewater the related work areas of the Project to relatively dry conditions and maintain suitable working conditions so that the modifications/improvements may be constructed in the dry.

**Products.** Contractor shall be responsible for the choice of the product(s) and equipment as well as "means and methods" for the Site Dewatering Work to be performed subject to the review of the Engineer. All products and "means and methods" selected shall be adequate for the intended use/application. Engineer's review does not relieve the Contractor from compliance with the requirements of the Drawings and Specifications and the requirements of this special provision.

**Submittals.** Contractor shall submit to the Village's Representative for review a description of dewatering techniques and equipment to be used, together with detail drawings showing lengths of discharge piping and point(s) of discharge including erosion control procedures.

Note: Village's Representative review of dewatering techniques and equipment shall in no way be construed as creating any obligation on the Village's Representative for same.

**Responsibility.** The Contractor shall be solely responsible for the choice of product(s) and equipment; for the design, installation, and operation; as well as "means and methods" of performing the Work; and subsequent removal of dewatering systems and their safety and conformity with local codes, regulations and these Specifications. All product(s), equipment and "means and methods" selected shall be adequate for the intended use/application. Review by Village's Representative does not relieve Contractor from compliance with the requirements specified herein.

**General Requirements.** The Contractor shall select the pumps he/she desires to use and the rate at which the pumps discharge, but adequate protection at the pump discharge shall be provided by the Contractor, subject to review by the Engineer. The Contractor shall ensure that downstream water quality shall not be impaired.

At all times during the excavation period and until completion and acceptance of the Work at Final Inspection, ample means and equipment shall be provided with which to remove promptly and dispose of properly all water entering any excavation or any other parts of the Work.

Water pumped or drained from the work required for this Contract shall be disposed of in a safe and suitable manner without damage to adjacent property or streets or to other work under construction. Water shall not be discharged onto streets without adequate protection of the surface at the point of discharge. No water shall be discharged into

combined sewers. No water containing settleable solids shall be discharged into storm sewers. Any and all damages caused by dewatering the work site shall be promptly repaired by the Contractor. The Contractor is responsible for providing any and all labor, materials and equipment needed for the SITE DEWATERING in order to meet the scheduled completion of the project.

**Method of Measurement:** No separate measurement will be made for SITE DEWATERING.

**Basis of Payment.** Payment for the work specified will be made at the contract lump sum price for SITE DEWATERING.



**PAY ITEM #97 – STEEL CASING PIPE**

**Description.** This work shall consist of installing steel casing pipe beneath existing and proposed utilities at the locations as shown on the plans and as directed by the Engineer.

**Materials.** All casing pipe shall be manufactured of new billet steel, cylindrical, with smooth coal tar epoxy coated exterior surface. Steel casing pipe shall conform to ASTM A139 Grade A and have minimum yield strength of 35,000 psi. Casing pipe minimum wall thickness shall be in accordance with the detail provided in the plans.

**Construction Requirements.** The steel casing pipe shall be installed by boring/augering or jacking into place and shall include all things necessary, but not limited to, excavation, sheeting/bracing, dewatering, pumping, welding, backfilling with trench backfill and compacting all as required for the steel casing pipe installation. The auger/jacking pit shall be to the size and depth required from the installation of the steel casing pipe.

The Contractor shall construct a jacking pit of sufficient size to accommodate the backstop, jacks, pushing frame and steel casing pipe to be jacked, including any pavement removal and replacement. The pit shall have guide rails or timbers to keep the casing pipe in alignment and on grade. A push frame shall be provided to evenly distribute the jacking pressure to protect the ends of the casing pipe being jacked. A minimum of two hydraulic jacks shall be used.

The steel casing pipe shall be fitted with a hardened steel cutting edge. The casing pipe shall be jacked on an upgrade slope, if possible to facilitate drainage. All pipe shall be on site before starting jacking. The pipe shall be pushed into place as the soil is excavated from the inside of the pipe. The excavation shall not precede the leading edge of the pipe unless it is necessary to remove a large obstruction. Once the jacking operation is started, it shall be continued without interruption until completion. Each section of casing pipe shall be placed end to end and shall be joined with a continuous

field weld in accordance with AWWA 206 such that the completed casing forms a continuous length. The pipe in its final position shall be straight and true in alignment and grade.

The CONTRACTOR has the option to install steel casing pipes using open cut methods. All costs related to installing the steel casing pipe in an open cut shall be included in the cost of this item, and no additional compensation will be allowed. The CONTRACTOR will be responsible for protecting and bracing all existing utilities as necessary for construction. All excavation, sheeting/bracing, welding, backfill and trench backfill required to construct the steel casing pipe in an open trench shall be included in the cost of this item.

The CONTRACTOR shall take caution when installing the steel casing pipe beneath existing utilities. Any damage to existing or proposed utilities/sewers caused by steel casing pipe installation shall be repaired at the CONTRACTOR's expense, regardless of installation method chosen.

**Measurement and Payment.** This work will be measured and paid for at the contract unit price per foot for STEEL CASING PIPE, of the size specified.

**PAY ITEM #98 – STORM SEWERS, CLASS B (PVC), 6"**

**Description.** This work shall consist of constructing Polyvinyl Chloride (PVC) pipe storm sewers on granular bedding as shown on the plans in accordance with the detail in the plans, Sections 550 and 1040.03 of the Standard Specifications, and as specified herein.

**Materials.** Storm sewers shall be Polyvinyl Chloride (PVC), SDR 26 pipe in accordance with ASTM D2241 and Section 1040.03 of the Standard Specifications. Bedding material shall be crushed gravel or stone meeting gradation CA-7 or CA-11.

**Construction Requirements.** Storm sewers shall be installed on a minimum of 4-inches of granular bedding. Once the pipe has been installed the Contractor shall place bedding to 12-inches over the crown of the pipe. Bedding material will not be paid for separately but shall be included in the cost of this item. The Contractor shall connect the proposed storm sewer to existing storm sewer or a drainage structure at the direction of the Engineer. The method of connection shall be approved by the Engineer prior to construction. The connection of the proposed storm sewer to the drainage system shall be included in the cost of the proposed pipe.

If required by the Engineer, the Contractor shall stabilize the trench bottom by replacing unsuitable material with CA-1 limestone. This will not be paid for separately but shall be included in this item.

Trench backfill shall be placed over the bedding material and shall be paid for as TRENCH BACKFILL.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for at the contract unit price per lineal feet for STORM SEWERS, CLASS B (PVC), 6".

## PAY ITEM #99 – STORM SEWERS, RUBBER GASKET, CLASS A, 43" X 68" ELLIPTICAL

**Description.** This work shall consist of constructing reinforced concrete elliptical pipe storm sewers on granular bedding as shown on the plans in accordance with the detail in the plans, Sections 550 and 1042 of the Standard Specifications, and as specified herein.

**Materials.** Storm sewers shall be reinforced concrete elliptical pipe in accordance with Section 1042 of the Standard Specifications. The minor and major axis dimensions of the elliptical pipe shall be 43 inches and 68 inches, respectively. Bedding material shall be crushed gravel or stone meeting gradation CA-7 or CA-11.

**Construction Requirements.** Storm sewers shall be installed on a minimum of 4-inches of granular bedding. Once the pipe has been installed the Contractor shall place bedding to 12-inches over the crown of the pipe. Bedding material will not be paid for separately but shall be included in the cost of this item.

Trench backfill shall be placed over the bedding material and shall be paid for as TRENCH BACKFILL.

**Method of Measurement and Basis of Payment.** This work shall be measured and paid for at the contract unit price per lineal feet for STORM SEWERS, RUBBER GASKET, CLASS A, 43" X 68" ELLIPTICAL.

## PAY ITEM #100 – TRAFFIC CONTROL AND PROTECTION, SPECIAL

Traffic control shall be in accordance with the applicable sections of the Standard 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 Specification 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.

If required, the Contractor shall submit a detour plan to the Engineer for approval prior to initiating the detour. The cost to establish a detour shall be included in the cost of this item.

The Contractor shall contact the VILLAGE at least 72 hours in advance of beginning work.

**STANDARDS:** 701301, 701501, 701801, 701901

**DETAILS:** Traffic Control and Protection for Sideroads, Intersections, and Driveways (TC-10), District One Typical Pavement Marking (TC-13)

**SPECIAL PROVISIONS:** Maintenance for Roadways, Work Zone Traffic Control, and Flaggers in Work Zones.

Contractor shall contact the Village at least 72 hours in advance of beginning work. Construction operations shall be conducted in a manner such that streets shall be open to emergency traffic and accessible as required to local traffic. Advanced notice shall be provided to residents, police, fire, school districts, school bus companies, and trash haulers when access to any street will be temporarily closed or limited. Removal and replacement of curb and gutter and driveways shall be planned so as to cause a minimum of inconvenience to the abutting property owners. The work shall be accomplished such that the streets shall be left open to local traffic at the end of each workday.

**Method of Measurement.** This work will be measured for payment on a lump sum basis. No measurement will be made of any of the individual components of this work.

**Basis of Payment.** This work shall be paid for at the contract unit price per lump sum for TRAFFIC CONTROL AND PROTECTION, SPECIAL.

**PAY ITEM #101 – TREE PRUNING**

**Description.** This work shall consist of performing tree pruning. This work shall be in accordance with Section 201 of the Standard Specifications and the current ANSI A300 (Part 1) – Pruning standard, except as modified herein.

Tree pruning shall be considered tree care work and shall be in accordance with the special provision TREE CARE.

**Method of Measurement.** This work will be measured for payment as each per tree.

**Basis of Payment.** This work will be paid for at the contract unit price per each tree for TREE PRUNING, regardless of size.

## PAY ITEM #102 – TREES

**Description.** This work shall consist of furnishing, transporting, and planting trees as shown on the plans or as directed by the Engineer. The work shall also include all mulching, bracing, wrapping, watering, weeding, replacement of trees when required, and all work described. This work shall be in accordance with Section 253 of the Standard Specifications, except as modified herein.

**Materials.** Trees shall be one of the following species:

| | | |
|---|---|---|
| Sugar maple | Norway maple | Scarlet (red) maple |
| Crimson King maple | American linden | European linden |
| Busiman elm | Liberty elm | Accolade elm |
| Triumph elm | Gingko | Kentucky Coffee |
| Pin oak | Red oak | Swamp white oak |
| Hackberry tree | Tulip tree | Beech tree |
| Sweet Gum tree | Skyline locust | |



In addition to the species specified above, crab trees may also be designated for planting if, in the opinion of the Engineer, there is insufficient vertical clearance for satisfactory growth of any of the trees listed above.

Trees shall be balled and burlapped. Trees shall be a minimum diameter of 2 in caliper.

Watering bags shall be Treegator Original Slow Release Water Bags, or approved equal.

**Construction.** Trees shall be planted a minimum of 50 ft from any other parkway trees and a minimum of 50 ft from all right-of-way corners.

Trees shall be braced immediately following planting.

Trees shall be mulched within 24 hours of planting.

All trees planted under this contract shall be furnished with a watering bag. Watering bags shall be installed within 24 hours of planting of the tree and shall be installed in accordance with the manufacturer's specifications. Contractor shall keep watering bags filled for a period of not less than 90 days, or until temperatures drop below freezing, whichever comes first.

Watering bags shall become the property of the Owner.

**Method of Measurement.** This work will be measured for final payment, in place, after the period of establishment. Trees will be measured as each individual plant.

**Basis of Payment.** This work will be paid for at the contract unit price per each for TREES, regardless of the species. Payment will be made according to the following schedule.

(a) Initial Payment. Upon completion of planting, mulch covering, wrapping, and bracing, 50 percent of the pay item(s) will be paid.

(b) Final Payment. Upon inspection and acceptance of the plant material the remaining 50 percent of the pay item(s) will be paid.



## PAY ITEM #103 – WATER SERVICE (LEAD) – ASBESTOS ABATEMENT

**Description.** This pay item is a contingency item to be used in the event that asbestos is encountered during private lead service replacement work within building interiors. This work shall consist of removing and disposing friable and non-friable asbestos within the limits of the water service replacement and shall be done according to the requirements of the U.S. Environmental Protection Agency (USEPA), the Illinois Environmental Protection Agency (IEPA), Illinois Department of Health (IDPH) and the Occupational Safety and Health Administration (OSHA).

The work shall be performed by a Contractor or subcontractor prequalified with the Illinois Capital Development Board.

Asbestos abatement is anticipated to be limited to 3 square feet or less. Post asbestos abatement air testing will not be required. Asbestos abatement permitting will not be required. However, should extenuating circumstances require the asbestos abatement to exceed 3 square feet, the Village will compensate the Contractor accordingly for any permit fees and air testing as required by the State of Illinois. The Village shall be notified in advance of any abatement work anticipated to exceed 3 square feet.

**Method of Measurement.** The removal of asbestos shall be measured per Each property for WATER SERVICE (LEAD) – ASBESTOS ABATEMENT. No separate measurement shall be made for the labor, materials, equipment and proper disposal of asbestos material required for this work.

**Basis of Payment.** This work shall be paid for at the contract unit price per Each for WATER SERVICE (LEAD) – ASBESTOS ABATEMENT. Only one WATER SERVICE (LEAD) – ASBESTOS ABATEMENT each will be eligible for payment per address.

## PAY ITEM #104 – WATER SERVICE (LEAD) – INTERIOR RESTORATION

**Description.** This work consists of the interior restoration of buildings to repair any damages caused by the lead water service replacement work.

**General.** Interior restoration shall include removal, disposal, and replacement of structural components of the flooring and/or walls as well as restoration of flooring materials, drywall, trim, paint, etc. The interior of each building shall be restored to preconstruction conditions or better. Contractor shall be responsible for documenting the pre-project condition of each building.

**Videotaping (Interior and Exterior).** The Contractor shall prepare preconstruction and post-construction video documentation of all home interior and exterior features that will be affected by lead water service replacements.

**Video Requirements.** Video camera recorders shall be HD format equipment. Preconstruction and post-construction video documentation shall consist of a series of high-resolution color audio-video tapes. All pertinent exterior features within the construction's zone of influence shall be shown in sufficient detail to document their preconstruction and post-construction condition. Features to be shown shall include but not be limited to pavements, curbs, driveways, sidewalks, landscape retaining walls, buildings, landscaping trees, shrubbery, fences, light posts, etc. View orientation shall be maintained by audio commentary on the audio track of each video to help explain what is being viewed. The Contractor will be held liable for any damages that are not shown on the pre-construction video.

For interior videotaping, the Contractor shall document all areas affected by the proposed work including existing foundation or slab cracks, or other existing damage. Video shall also be obtained following restoration of the building interior.

**Deliverable.** The Contractor shall provide two thumb drives each of the preconstruction and post-construction videos to the Engineer. Any video(s) that is/are deemed incomplete (or of poor quality) by the Engineer shall be corrected by the Contractor.

All labor, materials and equipment necessary to completely restore the interior of buildings with interior lead service replacement work to preconstruction conditions or better as specified shall be included in this item. All pre and post construction videotaping shall be included in this item.

**Method of Measurement and Basis of Payment.** This work shall be paid for at the contract unit price per each building/residence as WATER SERVICE (LEAD) – INTERIOR RESTORATION.

## PAY ITEM #105 – WATER SERVICE CURB BOX

**Description.** This work shall consist of furnishing and installing water service curb boxes. This work shall be in accordance with Section 561, Section 562, Section 563, and Section 565 of the Standard Specifications and with the Water and Sewer Specifications, except as modified herein.

This work may consist of either the standalone installation of a water service curb box on an existing water service, or the installation of a water service curb box on a new water service in conjunction with the installation of the new water service.

**Materials.** Curb boxes shall be Mueller extension type curb box Model H-10302 with Minneapolis pattern base, 1-½ in. inside diameter, and 2-½ in. base tapping diameter.

All bolts, tie rods, nuts, washers, and other hardware and fasteners to be installed below grade shall be stainless steel. Bolts and tie rods shall be Type 304 stainless steel. Nuts and washers shall be Type 300 stainless steel.

All materials furnished as a part of this work shall comply with the latest requirements of the Federal Safe Drinking Water Act.

**Construction.** The water service curb box shall be placed on a bedding of crushed aggregate of CA-7 or CA-11 gradation having a minimum thickness of 4 in. The bedding shall be placed to a minimum of 12 in. above the water service line and fittings.

Contractor shall furnish and install a new curb box. Contractor shall remove the existing curb box if present. Contractor shall install a piece of lath or timber marked with blue paint adjacent to the new curb box to identify its location until final restoration takes place. Contractor shall adjust the new curb box to finished grade immediately before the placement of sodding or seeding, or the completion of any other final restoration measures. Contractor shall remove the lath or timber after the completion and acceptance of final restoration measures.

Excavation, bedding, and backfilling will not be paid for separately but shall be included in the cost of this work.

**Method of Measurement.** This work will be measured for payment as each water service curb box installed, regardless of the depth of the connection, the number or type of fittings required, or any other factors. No separate measurement will be made of fittings, couplings, hardware, or any other components.

**Basis of Payment.** This work will be paid for at the contract unit price per each for WATER SERVICE CURB BOX.

## PAY ITEM #106 – WATER SERVICE LINE (PRIVATE) – LEAD SERVICE REPLACEMENT

**Description.** This work shall consist of the replacement of lead water services on the private side of the curb stop as designed herein.

**General.** Where existing lead services are encountered on private property, exterior private water services shall be completely replaced regardless of whether the existing service is located in the front yard or side yard. For any property where an existing private lead water service is encountered, the service shall be replaced as follows:

A) Where the water meter is located inside the house, the private service shall be replaced from the b-box to the existing shut-off valve or 18-inches inside of the house. If there is no shut-off valve, the Contractor shall install a valve that meets the requirements of the current Illinois Plumbing Code. Water meters shall not be replaced.

B) Where the water meter is located outside the house, the lead service shall be replaced from the b-box, thru the meter, to the nearest interior shut off valve or 18 inches inside of the house, whichever is closer. If there is no shut-off valve, the contractor shall install a valve that meets the requirements of current Illinois Plumbing Code. The water meter shall not be replaced.

**Construction Requirements.** All work shall be performed in accordance with ANSI/AWWA Standard C810-17, Replacement and Flushing of Lead Service Lines and the Illinois Plumbing Code.

The Contractor shall install the water service pipe to the water meter by method of trenchless installation. The water service shall be one continuous length. The use of couplings, joints, etc. will not be allowed. If the Contractor plans on using the pipe pulling method, he/she shall have a horizontal directional drill on site in the event the pipe pulling method is unsuccessful. Upon approval of the Engineer, the Contractor may install the water service pipe in an open trench. If an open trench is utilized, the trench shall be backfilled with excavated material. The excavated material shall be compacted in 12-inch lifts to the satisfaction of the Engineer.

The water service material shall be 1-inch diameter Type K copper Splicing of the water service pipe will not be permitted.

Coring of concrete floor slabs and foundation walls shall comply with the following:

<u>Coring of Concrete Floor Slabs</u>

For buildings without basements, the Contractor shall core drill the concrete floor slab to allow for penetration of the water service pipe. The use of breakers or concrete saws to

cut through the floor slab will not be allowed. The Contractor shall exercise caution to prevent damage to the floor slab caused by the coring operation. After all work is completed, the cored hole shall be completely sealed with hydraulic cement to prevent water infiltration. The hydraulic cement shall be a high-quality, engineer approved material.

Coring of Foundation Walls

For houses with basements, the service will be installed through the foundation/basement wall in lieu of the basement floor unless otherwise directed by the Engineer. The Contractor will be allowed to core drill through the basement wall as part of the same trenchless installation operation of the private service. If the Contractor is unable to perform this task, either by lack of satisfactory performance (as determined by the Village) or existing condition limitations, the service will be installed through the basement wall as follows:

An exterior pit shall be hand excavated. Hydro excavation will not be allowed. The Contractor shall core drill the existing foundation wall to allow for the penetration of the water service pipe.

The interior and exterior of the cored hole shall be completely sealed with hydraulic cement to prevent water infiltration. The hydraulic cement shall be a high-quality, engineer approved material. If the cored hole is exposed on the outside of the building, a coating of roof cement shall be added to the exterior of the foundation wall and should completely coat the seams of the cored hole. The Contractor shall exercise caution to prevent damage to the foundation caused by the coring operation. Upon completion of all work, the exterior pit shall be backfilled with excavated material compacted in 12-inch lifts.

The existing water meter shall remain and shall not be removed. All material necessary to connect the new water service to the existing plumbing shall be provided and installed by the Contractor's licensed plumber. All interior water service pipe material shall be type "L" copper pipe; 1-inch diameter on the upstream side of the meter; ¾-inch size (or match existing) on the downstream side of the meter, as necessary. The Contractor is responsible for any modifications to the interior plumbing necessary to install the new water service.

The Contractor shall be responsible for removing and properly disposing of any debris generated by the work on the interior and exterior of the home, including any obsolete lead plumbing material generated by the internal plumbing work. If it is necessary to move fixtures to complete the work, they shall be placed in their original location after completion of the work.

This work shall also include abandoning the exterior lead water service. The lead water service line shall be cut, capped, and abandoned in place

**Restoration.** All landscape and hardscape removal and restoration shall be included in this item. This shall include, but not be limited to, removal and replacement of existing decks, sidewalks, patios, decorative landscaping, grassed areas, walkways, trees, bushes etc., required to install the private water service. No separate payment shall be allowed for these items and the Village's intent is to minimize private property impacts through the use of trenchless installations. All private property shall be restored to pre-construction conditions or better. All grassed areas shall be restored with a minimum of 4" of topsoil and sodding, unless otherwise directed by the Engineer. Sodding (including supplemental watering) shall be completed as specified for PARKWAY RESTORATION – SODDING, SALT TOLERANT, except that the work shall be included in the cost of WATER SERVICE LINE (PRIVATE) – LEAD SERVICE REPLACEMENT and will not be paid for separately.

The private water layout shall be approved by the Engineer prior to installation. The bid price for this item shall include the cost of all work to be done on private property for each private water service.

The public portion of the water service (i.e. portion located with the public ROW) shall be installed and paid for in accordance with the special provision for WATER SERVICE LINE (PUBLIC).

**Basis of Payment**. This work shall be paid for at the contract unit price per each for WATER SERVICE LINE (PRIVATE) – LEAD SERVICE REPLACEMENT.

## PAY ITEM #107-110 – WATER SERVICE LINE (PUBLIC)

**Description.** This work shall consist of installing new copper water service connections and lines, complete in place from the water main to the existing water service line behind the curb stop, as shown on the plans or as directed by the Engineer. This work shall be in accordance with Section 561, Section 562, Section 563, and Section 565 of the Standard Specifications and with the Water and Sewer Specifications, except as modified herein.

Short water services shall be defined as those services for properties which are located adjacent to the half of the right-of-way where the water main is located. Long water services shall be defined as those services for properties which are located adjacent to the half of the right-of-way opposite where the water main is located.

**Materials.** Water service line pipe shall be Type "K" seamless copper water tubing conforming to ASTM B88, of the diameter specified. The pipe shall be marked with the manufacturer's name or trademark and with markings indicating the type of the pipe.

Corporation stops shall be Mueller 300 Ball Corporation Valve Model B-25000 with AWWA taper (Mueller "CC") thread inlet and copper flare straight connection outlet.

Curb stops shall be Mueller 300 Ball Curb Valve Model B-25154 with copper flare nuts on both ends, quarter turn check, and Minneapolis pattern thread top.

Curb boxes shall be in accordance with the special provision WATER SERVICE CURB BOX.

Water service line couplings shall be Mueller H-15400 straight three-part unions with copper flare nuts on both ends, conforming to ANSI/AWWA C800, of the size needed.

All materials furnished as a part of this work shall comply with the latest requirements of the Federal Safe Drinking Water Act.

**Construction.** Where an existing water service is to be replaced, the contractor shall expose and remove the existing corporation stop. The contractor shall furnish a Smith-Blair circle repair sleeve of the appropriate diameter and of sufficient length and shall install it on the water main.

The Engineer may direct that the existing corporation stop does not need to be removed. In such instances, the existing corporation stop shall be turned off, the existing water service line pipe shall be disconnected from the corporation stop, and a threaded cap of the appropriate diameter and thread size shall be furnished and installed on the existing corporation stop.

Where sleeves are to be installed, such installation shall be completed with the main shut off and not under pressure.

Water services that are 1 in. in diameter shall be direct tapped. Water services that are 1 ½ in. to 3 in. in diameter shall be constructed with a tapping saddle. Water services that are 4 in. in diameter or larger shall not be constructed with copper tubing but shall be constructed with ductile iron pipe of the appropriate diameter.

Contractor shall make a new connection to the water main using a tapping machine satisfactory to the Engineer. Contractor shall furnish and install a new corporation stop of the appropriate diameter on the water main. The Engineer may require that the Contractor furnish and install a tapping sleeve of the appropriate size if needed.

Contractor shall install a new water service line pipe from the corporation stop to the location of the existing curb box, or to such other location as shown in the plans or as directed by the Engineer. A single piece of copper water tubing of sufficient length to extend the full distance from the water main to the curb stop shall be utilized. Splicing of multiple sections of copper water tubing will not be permitted.

The new water service line and all components shall be installed a minimum of 5.5 ft. below finished grade. Where other utilities are encountered, the new water service line shall be located so that a minimum of 18 in. of clearance exists in all directions between

the new water service line and all other utilities. Where the new water service line crosses other utilities, if installation of the new water service line above the utility being crossed would result in any portion of the new water service line being less than 5.5 ft. below finished grade, the new water service line shall be installed below the utility being crossed.

The new water service line and all components shall be placed on a bedding of crushed aggregate of CA-7 or CA-11 gradation having a minimum thickness of 4 in. The bedding shall be placed to a minimum of 12 in. above the water service line.

Contractor shall furnish and install a new curb stop of the appropriate diameter. Contractor shall connect the new curb stop to the existing water service line behind the curb stop. If the existing water service line behind the curb stop is of a different material or diameter than the new water service line being installed, a section of new copper water service line shall be installed behind the curb stop. The existing water service line shall then be cut by an approved method, and the end of the existing water service line shall be joined to the new water service line with a water service line coupling of the appropriate type and size.

In addition to all materials listed, Contractor shall also furnish and install all other necessary fittings, adapters, hardware, and materials necessary to complete the work as described.

If the new service is replacing an existing service, the existing service shall be removed and disposed of, regardless of the existing service material. This includes the removal and disposal of existing lead service lines.

Excavation, bedding, and backfilling of water service connections and lines will not be paid for separately, but shall be included in the cost of this work.

**Method of Measurement.** This work will be measured for payment as each water service connection and line installed, regardless of the length of the water service line, the depth of the water service line, conflicts with other utilities, or any other factors. No separate measurement will be made of pipe, fittings, couplings, stops, valves, or other components.

**Basis of Payment.** This work will be paid for at the contract unit price per each for WATER SERVICE LINE, LONG SIDE, 1” (PUBLIC) – NON-LEAD SERVICE REPLACEMENT, or WATER SERVICE LINE, LONG SIDE, 1” (PUBLIC) – NON-LEAD SERVICE REPLACEMENT for water services replacing existing services consisting of materials other than lead, and WATER SERVICE LINE, LONG SIDE, 1” (PUBLIC) – LEAD SERVICE REPLACEMENT, or WATER SERVICE LINE, LONG SIDE, 1” (PUBLIC) – LEAD SERVICE REPLACEMENT for water services replacing existing lead services.

Curb boxes will be paid for in accordance with the special provision WATER SERVICE CURB BOX.

## PAY ITEM #111 – WATER USAGE CREDIT

**Description.** Pay items are provided as a part of this contract for the purpose of documenting the quantity of water obtained from the Village by the Contractor.

If the Contractor elects to obtain water from the Village, the Contractor shall comply with the Special Provision USE OF FIRE HYDRANTS. The quantity of water obtained from the Village by the Contractor shall be deducted from the contract as WATER USAGE DEDUCTION, and shall be credited to the contract as WATER USAGE CREDIT.

The WATER USAGE CREDIT pay item for this contract has been established with a unit of measurement in thousands of gallons (TGAL), a quantity of one-hundred (100.00), and a contract unit price of eight dollars and eighty-five cents ($8.85), for a total WATER USAGE CREDIT contract price of eight-hundred eighty-five dollars and no cents ($885.00). Bidder, in submitting a bid, accepts the quantity, contract unit price, and total contract price of the WATER USAGE CREDIT pay item.

**Method of Measurement.** Water usage will be measured as the actual quantity of water obtained from the Village by the Contractor, which quantity shall be rounded up to the nearest 1,000 gallons.

**Basis of Payment.** The water usage credit will be paid for at the contract unit price per thousand gallons (TGAL) for WATER USAGE CREDIT. The quantity paid for as WATER USAGE CREDIT will be equal to the quantity deducted as WATER USAGE DEDUCTION.

## PAY ITEM #112 – WATER USAGE DEDUCTION

**Description.** Pay items are provided as a part of this contract for the purpose of documenting the quantity of water obtained from the Village by the Contractor.

If the Contractor elects to obtain water from the Village, the Contractor shall comply with the Special Provision USE OF FIRE HYDRANTS. The quantity of water obtained from the Village by the Contractor shall be deducted from the contract as WATER USAGE DEDUCTION, and shall be credited to the contract as WATER USAGE CREDIT.

The WATER USAGE DEDUCTION pay item for this contract has been established with a unit of measurement in thousands of gallons (TGAL), a quantity of one-hundred (100.00), and a contract unit price of a deduction of eight dollars and

eighty-five cents ($8.85), for a total WATER USAGE DEDUCTION contract price of a deduction of eight-hundred eighty-five dollars and no cents ($885.00). Bidder, in submitting a bid, accepts the quantity, contract unit price, and total contract price of the WATER USAGE DEDUCTION pay item.

**Method of Measurement.** Water usage will be measured as the actual quantity of water obtained from the Village by the Contractor, which quantity shall be rounded up to the nearest 1,000 gallons.

**Basis of Payment.** The water usage deduction will be deducted at the contract unit price per thousand gallons (TGAL) for WATER USAGE DEDUCTION. The quantity deducted as WATER USAGE DEDUCTION will be equal to the quantity paid for as WATER USAGE CREDIT.

**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."

**FRICTION AGGREGATE (D-1)**
Effective: January 1, 2011
Revised: December 1, 2021

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 | Allowed Alone or in Combination [5/]:<br>Gravel<br>Crushed Gravel<br>Carbonate Crushed Stone<br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF)<br>Crushed Steel Slag<br>Crushed Concrete |
| HMA<br>Low ESAL | Stabilized Subbase<br>or Shoulders | Allowed Alone or in Combination [5/]:<br>Gravel<br>Crushed Gravel<br>Carbonate Crushed Stone<br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF)<br>Crushed Steel Slag[1/]<br>Crushed Concrete |
| HMA<br>High ESAL<br>Low ESAL | Binder<br>IL-19.0<br>or IL-19.0L<br><br>SMA Binder | Allowed Alone or in Combination [5/ 6/]:<br>Crushed Gravel<br>Carbonate Crushed Stone[2/]<br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF)<br>Crushed Concrete[3/] |

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

| Use | Mixture | Aggregates Allowed | |
|---|---|---|---|
| | | 75% Dolomite[2/] | Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone |
| | | 75% Crushed Gravel[2/] | Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag |
| HMA High ESAL | F Surface IL-9.5<br><br>SMA Ndesign 80 Surface | <u>Allowed Alone or in Combination</u> [5/ 6/]:<br><br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF)<br>Crushed Steel Slag<br>No Limestone. | |
| | | <u>Other Combinations Allowed</u>: | |
| | | *Up to...* | *With...* |
| | | 50% Crushed Gravel[2/] or Dolomite[2/] | Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone |

Crushed steel slag allowed in shoulder surface only.
Carbonate crushed stone (limestone) and/or crushed gravel shall not be used in SMA Ndesign 80.
Crushed concrete will not be permitted in SMA mixes.
Crushed steel slag shall not be used as binder.
When combinations of aggregates are used, the blend percent measurements shall be by volume."
Combining different types of aggregate will not be permitted in SMA Ndesign 80."

**GROUND TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER (D-1)**
Effective: June 26, 2006
Revised: December 1, 2021

Add the following to the end of article 1032.05 of the Standard Specifications:

"(c) Ground Tire Rubber (GTR) Modified Asphalt Binder. A quantity of 10.0 to 14.0 percent GTR (Note 1) shall be blended by dry unit weight with a PG 64-28 to make a GTR 70-28 or a PG 58-28 to make a GTR 64-28. The base PG 64-28 and PG 58-28 asphalt binders shall meet the requirements of Article 1032.05(a). Compatible polymers may be added during production. The GTR modified asphalt binder shall meet the requirements of the following table.

| Test | Asphalt Grade GTR 70-28 | Asphalt Grade GTR 64-28 |
|---|---|---|
| Flash Point (C.O.C.), AASHTO T 48, °F (°C), min. | 450 (232) | 450 (232) |
| Rotational Viscosity, AASHTO T 316 @ 275 °F (135 °C), Poises, Pa·s, max. | 30 (3) | 30 (3) |
| Softening Point, AASHTO T 53, °F (°C), min. | 135 (57) | 130 (54) |
| Elastic Recovery, ASTM D 6084, Procedure A (sieve waived) @ 77 °F, (25 °C), aged, ss, 100 mm elongation, 5 cm/min., cut immediately, %, min. | 65 | 65 |

Note 1. GTR shall be produced from processing automobile and/or light truck tires by the ambient grinding method. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall contain no free metal particles or other materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois modified AASHTO T 27, *a* 50 g sample of the GTR shall conform to the following gradation requirements:

| Sieve Size | Percent Passing |
|---|---|
| No. 16 (1.18 mm) | 100 |
| No. 30 (600 μm) | 95 ± 5 |
| No. 50 (300 μm) | > 20 |

Add the following to the end of Note 1. of article 1030.03 of the Standard Specifications:

"A dedicated storage tank for the Ground Tire Rubber (GTR) modified asphalt binder shall be provided. This tank must be capable of providing continuous mechanical mixing throughout by continuous agitation and recirculation of the asphalt binder to provide a uniform mixture. The tank shall be heated and capable of maintaining the temperature of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of ± 0.40 percent."

**HMA MIXTURE DESIGN REQUIREMENTS (D-1)**
Effective: November 1, 2019
Revised: December 1, 2021

Revise Article 1004.03(c) to read:

"(c) Gradation. The coarse aggregate gradations shall be as listed in the following table.

| Use | Size/Application | Gradation No. |
|---|---|---|
| Class A-1, A-2, & A-3 | 3/8 in. (10 mm) Seal | CA 16 or CA 20 |
| Class A-1 | 1/2 in. (13 mm) Seal | CA 15 |
| Class A-2 & A-3 | Cover Coat | CA 14 |
| HMA High ESAL | IL-19.0;<br>Stabilized Subbase IL-19.0 | CA 11 [1/] |
| | SMA 12.5 [2/] | CA 13[4/], CA 14, or CA 16 |
| | SMA 9.5 [2/] | CA 13[3/4/] or CA 16[3/] |
| | IL-9.5 | CA 16, CM 13[4/] |
| | IL-9.5FG | CA 16 |
| HMA Low ESAL | IL-19.0L | CA 11 [1/] |
| | IL-9.5L | CA 16 |

CA 16 or CA 13 may be blended with the CA 11.

The coarse aggregates used shall be capable of being combined with the fine aggregates and mineral filler to meet the approved mix design and the mix requirements noted herein.

The specified coarse aggregate gradations may be blended.

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 "High ESAL" portion of the table in Article 1030.01 to read:

| | | |
|---|---|---|
| "High ESAL | Binder Courses | IL-19.0, IL-9.5, IL-9.5FG, IL-4.75, SMA 12.5, Stabilized Subbase IL-19.0 |
| | Surface Courses | IL-9.5, IL-9.5FG, SMA 12.5, SMA 9.5" |

Revise Note 2. and add Note 6 to Article 1030.02 of the Standard Specifications to read:

"Item Article/Section

(g)Performance Graded Asphalt Binder (Note 6) 1032
(h) Fibers (Note 2)

Note 2. 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 I or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

Note 6. 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 a SBS PG 76-22 for IL-4.75, except where modified herein.."

Revise table in Article 1030.05(a) of the Standard Specifications to read:

| "MIXTURE COMPOSITION (% PASSING) [1/] | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sieve Size | IL-19.0 mm | | SMA 12.5 | | SMA 9.5 | | IL-9.5mm | | IL-9.5FG | | IL-4.75 mm | |
| | min | max | 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 | | 100 |
| 3/8 in. (9.5 mm) | | | | 65 | 90 | 100 | 90 | 100 | 90 | 100 | | 100 |
| #4 (4.75 mm) | 40 | 60 | 20 | 30 | 36 | 50 | 34 | 69 | 60 | 75 6/ | 90 | 100 |
| #8 (2.36 mm) | 20 | 42 | 16 | 24 4/ | 16 | 32 4/ | 34 5/ | 52 2/ | 45 | 60 6/ | 70 | 90 |
| #16 (1.18 mm) | 15 | 30 | | | | | 10 | 32 | 25 | 40 | 50 | 65 |
| #30 (600 µm) | | | 12 | 16 | 12 | 18 | | | 15 | 30 | | |
| #50 (300 µm) | 6 | 15 | | | | | 4 | 15 | 8 | 15 | 15 | 30 |
| #100 (150 µm) | 4 | 9 | | | | | 3 | 10 | 6 | 10 | 10 | 18 |
| #200 (75 µm) | 3.0 | 6.0 | 7.0 | 9.0 3/ | 7.5 | 9.5 3/ | 4.0 | 6.0 | 4.0 | 6.5 | 7.0 | 9.0 3/ |
| #635 (20 µm) | | | ≤ 3.0 | | ≤ 3.0 | | | | | | | |
| Ratio Dust/Asphalt Binder | | 1.0 | | 1.5 | | 1.5 | | 1.0 | | 1.0 | | 1.0 |

Based on percent of total aggregate weight.

The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.
Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.
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.

When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.
When the mixture is used as a binder, the maximum shall be increased by 0.5 percent passing."

Revise Article 1030.05(b) of the Standard Specifications to read:

(b) Volumetric Requirements. The target value for the air voids of the HMA shall be 4.0 percent, for IL-4.75 and SMA mixtures it shall be 3.5 percent and for Stabilized Subbase it shall be 3.0 percent at the design number of gyrations. The voids in the mineral aggregate (VMA) and voids filled with asphalt binder (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.

| | Voids in the Mineral Aggregate (VMA), % Minimum for Ndesign | | | | |
|---|---|---|---|---|---|
| Mix Design | 30 | 50 | 70 | 80 | 90 |
| IL-19.0 | | 13.5 | 13.5 | | 13.5 |
| IL-9.5 | | 15.0 | 15.0 | | |
| IL-9.5FG | | 15.0 | 15.0 | | |
| IL-4.75[1/] | | 18.5 | | | |
| SMA-12.5[1/2/5/] | | | | 17.0[3/]/16.0[4/] | |
| SMA-9.5[1/2/5/] | | | | 17.0[3/]/16.0[4/] | |
| IL-19.0L | 13.5 | | | | |
| IL-9.5L | 15.0 | | | | |

Maximum draindown shall be 0.3 percent according to Illinois Modified AASHTO T 305.

The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30°F.

Applies when specific gravity of coarse aggregate is ≥ 2.760.

Applies when specific gravity of coarse aggregate is < 2.760.

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"

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 steal slag sand, shall have minimum surge bin storage plus haul time of 1.5 hours."

Add after third sentence of Article 1030.09(b) to read:

" If the Contractor and Engineer agree the nuclear density test method is not appropriate for the mixture, cores shall be taken at random locations determined

according to the QC/QA document "Determination of Random Density Test Site Locations". Core densities shall be determined using the Illinois Modified AASHTO T 166 or T 275 procedure."

Revise Table 1 and Note 4/ of Table 1 in Article 406.07(a) of the Standard Specifications to read:

| | Breakdown/Intermediate Roller (one of the following) | Final Roller (one or more of the following) | Density Requirement |
|---|---|---|---|
| IL-9.5, IL-9.5FG, IL-19.0 1/ | $V_D$, P , $T_B$, 3W, $O_T$, $O_B$ | $V_S$, $T_B$, $T_F$, $O_T$ | As specified in Section 1030 |
| IL-4.75 and SMA 3/ 4/ | $T_B$, 3W, $O_T$ | $T_F$, 3W | As specified in Section 1030 |
| Mixtures on Bridge Decks 2/ | $T_B$ | $T_F$ | As specified in Articles 582.05 and 582.06. |

"4/ The Contractor shall provide a minimum of two steel-wheeled tandem rollers ($T_B$), and/or three-wheel (3W) rollers for breakdown, except one of the ($T_B$) or (3W) rollers shall be 84 inches (2.14 m) wide and a weight of 315 pound per linear inch (PLI) (5.63 kg/mm) and one of the ($T_B$) or (3W) rollers can be substituted for an oscillatory roller ($O_T$). $T_F$ rollers shall be a minimum of 280 lb/in. (50 N/mm). The 3W and $T_B$ rollers shall be operated at a uniform speed not to exceed 3 mph (5 km/h), with the drive roll for $T_B$ rollers nearest the paver and maintain an effective rolling distance of not more than 150 ft (45 m) behind the paver."

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 $G_{mb}$."

Revise first paragraph of Article 1030.10 of the Standard Specifications to read:

"A test strip of 300 ton (275 metric tons), except for SMA mixtures it will be 400 ton (363 metric ton), will be required for each mixture on each contract at the beginning of HMA production for each construction year according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures". At the request of the Producer, the Engineer may waive the test strip if previous construction during the current construction year has demonstrated the constructability of the mix using Department test results."

Revise third paragraph of Article 1030.10 of the Standard Specifications to read:

"When a test strip is constructed, the Contractor shall collect and split the mixture according to the document "Hot-Mix Asphalt Test Strip Procedures". The Engineer, or a representative, shall deliver split sample to the District Laboratory for verification testing. The Contractor shall complete mixture tests stated in Article 1030.09(a). Mixture sampled shall include enough material for the Department to conduct mixture tests detailed in Article 1030.09(a) and in the document "Hot-Mix Asphalt Mixture Design Verification Procedure" Section 3.3. The mixture test results shall meet the requirements of Articles 1030.05(b) and 1030.05(d), except Hamburg wheel tests will only be conducted on High ESAL mixtures during production."



**HAMBURG WHEEL AND TENSILE STRENGTH RATIO TESTING (D1 LR)**
Effective: December 1, 2020
Revised: December 1, 2021

Revise the second and third paragraph of Article 1030.05 (d) of the Standard Specifications to read:

"High ESAL mixture designs shall meet the following requirements for tensile strength, TSR and Hamburg wheel criteria.

If a mix design fails the Department's verification testing, the Contractor shall make necessary changes to the mix and provide passing volumetric, tensile strength, TSR and Hamburg wheel procedure results before resubmittal. The Department will verify the passing results."

Add to the end of Article 1030.05 (d)(3) of the Standard Specifications to read:

" During mixture design, prepared samples shall be submitted to the District laboratory by the Contractor for verification testing. The required testing, and number and size of prepared samples submitted, shall be according to the following tables.

| High ESAL – Required Samples for Verification Testing | |
|---|---|
| Mixture | Hamburg Wheel Testing 1/ 2/ |
| Binder | total of 3 - 160 mm tall bricks |
| Surface | total of 4 - 160 mm tall bricks |

1/ The compacted gyratory bricks for Hamburg wheel testing shall be 7.5 ± 0.5 percent air voids.

2/ If the Contractor does not possess the equipment to prepare the 160 mm tall brick(s), twice as many 115 mm tall compacted gyratory bricks will be acceptable.

Delete Article 1030.05(d)(4) of the Standard Specifications.

Revise the fourth paragraph of Article 1030.10 of the Standard Specifications to read:

"When a test strip is not required, each HMA mixture shall still be sampled on the first day of production: Hamburg wheel testing for High ESAL. Within two working days after sampling the mixture, the Contractor shall deliver gyratory cylinders to the District laboratory for Department verification testing. The High ESAL mixture test results shall meet the requirements of Articles 1030.05(d)(3) and 1030.05(d)(4). The required number and size of prepared samples submitted for the Hamburg wheel and I-FIT testing shall be according to the "High ESAL - Required Samples for Verification Testing" table in Article 1030.05(d)(3) above."

Revise the tenth paragraph of Article 1030.10 of the Standard Specifications to read:

"Upon notification by the Engineer of a failing Hamburg wheel test, the Contractor shall immediately resample and the Department will test. Paving may continue as long as all other mixture criteria is being met. If the second set of Hamburg wheel test fail, no additional mixture shall be produced until the Engineer receives passing Hamburg wheel tests."

Add the following to the end of Article 1030.10 of the Standard Specifications to read:

"Mixture sampled during the first day of production shall include approximately 60 lb (27 kg) of additional material for the Department to conduct Hamburg wheel testing. Within two working days after sampling, the Contractor shall deliver prepared samples to the District laboratory for verification testing. The required number and size of prepared samples submitted for the Hamburg wheel testing shall be according to the "High ESAL - Required Samples for Verification Testing" table in Article 1030.05(d)(3) above."

BDE SPECIAL PROVISIONS
For the April 29, 2022 and June 17, 2022 Lettings

The following special provisions indicated by a “check mark” are applicable to this contract and will be included by the Project Coordination and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

| File Name | # | | Special Provision Title | Effective | Revised |
|---|---|---|---|---|---|
| 80099 | 1 | ☐ | Accessible Pedestrian Signals (APS) | April 1, 2003 | Jan. 1, 2022 |
| * 80274 | 2 | ☐ | Aggregate Subgrade Improvement | April 1, 2012 | April 1, 2022 |
| 80192 | 3 | ☐ | Automated Flagger Assistance Device | Jan. 1, 2008 | |
| 80173 | 4 | ☐ | Bituminous Materials Cost Adjustments | Nov. 2, 2006 | Aug. 1, 2017 |
| 80426 | 5 | ☐ | Bituminous Surface Treatment with Fog Seal | Jan. 1, 2020 | Jan. 1, 2022 |
| 80436 | 6 | ☐ | Blended Finely Divided Minerals | April 1, 2021 | |
| 80241 | 7 | ☐ | Bridge Demolition Debris | July 1, 2009 | |
| 5026I | 8 | ☐ | Building Removal-Case I (Non-Friable and Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 5048I | 9 | ☐ | Building Removal-Case II (Non-Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 5049I | 10 | ☐ | Building Removal-Case III (Friable Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 5053I | 11 | ☐ | Building Removal-Case IV (No Asbestos) | Sept. 1, 1990 | April 1, 2010 |
| 80384 | 12 | ☐ | Compensable Delay Costs | June 2, 2017 | April 1, 2019 |
| 80198 | 13 | ☐ | Completion Date (via calendar days) | April 1, 2008 | |
| 80199 | 14 | ☐ | Completion Date (via calendar days) Plus Working Days | April 1, 2008 | |
| 80293 | 15 | ☐ | Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet | April 1, 2012 | July 1, 2016 |
| 80311 | 16 | ☐ | Concrete End Sections for Pipe Culverts | Jan. 1, 2013 | April 1, 2016 |
| 80261 | 17 | ☑ | Construction Air Quality – Diesel Retrofit | June 1, 2010 | Nov. 1, 2014 |
| 80434 | 18 | ☐ | Corrugated Plastic Pipe (Culvert and Storm Sewer) | Jan. 1, 2021 | |
| 80029 | 19 | ☐ | Disadvantaged Business Enterprise Participation | Sept. 1, 2000 | March 2, 2019 |
| 80229 | 20 | ☐ | Fuel Cost Adjustment | April 1, 2009 | Aug. 1, 2017 |
| 80433 | 21 | ☐ | Green Preformed Thermoplastic Pavement Markings | Jan. 1, 2021 | Jan. 1, 2022 |
| 80422 | 22 | ☐ | High Tension Cable Median Barrier | Jan. 1, 2020 | Jan. 1, 2022 |
| * 80443 | 23 | ☐ | High Tension Cable Median Barrier Removal | April 1, 2022 | |
| * 80444 | 24 | ☐ | Hot-Mix Asphalt – Patching | April 1, 2022 | |
| 80442 | 25 | ☐ | Hot-Mix Asphalt – Start of Production | Jan. 1, 2022 | |
| 80438 | 26 | ☐ | Illinois Works Apprenticeship Initiative – State Funded Contracts | June 2, 2021 | Sept. 2, 2021 |
| 80411 | 27 | ☐ | Luminaires, LED | April 1, 2019 | Jan. 1, 2022 |
| 80045 | 28 | ☐ | Material Transfer Device | June 15, 1999 | Jan. 1, 2022 |
| 80418 | 29 | ☐ | Mechanically Stabilized Earth Retaining Walls | Nov. 1, 2019 | Nov. 1, 2020 |
| 80430 | 30 | ☐ | Portland Cement Concrete – Haul Time | July 1, 2020 | |
| 3426I | 31 | ☐ | Railroad Protective Liability Insurance | Dec. 1, 1986 | Jan. 1, 2022 |
| 80395 | 32 | ☐ | Sloped Metal End Section for Pipe Culverts | Jan. 1, 2018 | |
| 80340 | 33 | ☐ | Speed Display Trailer | April 2, 2014 | Jan. 1, 2022 |
| 80127 | 34 | ☐ | Steel Cost Adjustment | April 2, 2004 | Jan. 1, 2022 |
| 80397 | 35 | ☐ | Subcontractor and DBE Payment Reporting | April 2, 2018 | |
| 80391 | 36 | ☐ | Subcontractor Mobilization Payments | Nov. 2, 2017 | April 1, 2019 |
| 80437 | 37 | ☐ | Submission of Payroll Records | April 1, 2021 | |
| 80435 | 38 | ☐ | Surface Testing of Pavements – IRI | Jan. 1, 2021 | Jan. 1, 2022 |
| 80410 | 39 | ☐ | Traffic Spotters | Jan. 1, 2019 | |
| 20338 | 40 | ☐ | Training Special Provisions | Oct. 15, 1975 | Sept. 2, 2021 |
| 80318 | 41 | ☐ | Traversable Pipe Grate for Concrete End Sections | Jan. 1, 2013 | Jan. 1, 2018 |
| 80429 | 42 | ☐ | Ultra-Thin Bonded Wearing Course | April 1, 2020 | Jan. 1, 2022 |
| 80439 | 43 | ☑ | Vehicle and Equipment Warning Lights | Nov. 1, 2021 | |
| 80440 | 44 | ☐ | Waterproofing Membrane System | Nov. 1, 2021 | |
| 80302 | 45 | ☐ | Weekly DBE Trucking Reports | June 2, 2012 | Nov. 1, 2021 |
| 80427 | 46 | ☑ | Work Zone Traffic Control Devices | Mar. 2, 2020 | |
| 80071 | 47 | ☐ | Working Days | Jan. 1, 2002 | |

The following special provisions are in the 2022 Standard Specifications and Recurring Special Provisions.

| File Name | Special Provision Title | New Location(s) | Effective | Revised |
|---|---|---|---|---|
| 80425 | Cape Seal | Sections 405, 1003 | Jan. 1, 2020 | Jan. 1, 2021 |
| 80387 | Contrast Preformed Plastic Pavement Marking | Articles 780.08, 1095.03 | Nov. 1, 2017 | |
| 80402 | Disposal Fees | Article 109.04(b) | Nov. 1, 2018 | |
| 80378 | Dowel Bar Inserter | Articles 420.03, 420.05, 1103.20 | Jan. 1, 2017 | Jan. 1, 2018 |
| 80421 | Electric Service Installation | Articles 804.04, 804.05 | Jan. 1, 2020 | |
| 80415 | Emulsified Asphalts | Article 1032.06 | Aug. 1, 2019 | |
| 80423 | Engineer's Field Office and Laboratory | Section 670 | Jan. 1, 2020 | |
| 80417 | Geotechnical Fabric for Pipe Underdrains and French Drains | Articles 1080.01(a), 1080.05 | Nov. 1, 2019 | |
| 80420 | Geotextile Retaining Walls | Article 1080.06(d) | Nov. 1, 2019 | |
| 80304 | Grooving for Recessed Pavement Markings | Articles 780.05, 780.14, 780.15 | Nov. 1, 2012 | Nov. 1, 2020 |
| 80416 | Hot-Mix Asphalt – Binder and Surface Course | Sections 406, 1003, 1004, 1030, 1101 | July 2, 2019 | Nov. 1, 2019 |
| 80398 | Hot-Mix Asphalt – Longitudinal Joint Sealant | Sections 406, 1032 | Aug. 1, 2018 | Nov. 1, 2019 |
| 80406 | Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT) | Sections 406, 1030 | Jan. 1, 2019 | Jan. 2, 2021 |
| 80347 | Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling | Sections 406, 1030 | Nov. 1, 2014 | July 2, 2019 |
| 80383 | Hot-Mix Asphalt – Quality Control for Performance | Sections 406, 1030 | April 1, 2017 | July 2, 2019 |
| 80393 | Manholes, Valve Vaults, and Flat Slab Tops | Articles 602.02, 1042.10 | Jan. 1, 2018 | Mar. 1, 2019 |
| 80424 | Micro-Surfacing and Slurry Sealing | Sections 404, 1003 | Jan. 1, 2020 | Jan. 1, 2021 |
| 80428 | Mobilization | Article 671.02 | April 1, 2020 | |
| 80412 | Obstruction Warning Luminaires, LED | Sections 801, 822, 1067 | Aug. 1, 2019 | |
| 80359 | Portland Cement Concrete Bridge Deck Curing | Articles 1020.13, 1022.03 | April 1, 2015 | Nov. 1, 2019 |
| 80431 | Portland Cement Concrete Pavement Patching | Articles 701.17(e)(3)b, 1001.01(d), 1020.05(b)(5) | July 1, 2020 | |
| 80432 | Portland Cement Concrete Pavement Placement | Article 420.07 | July 1, 2020 | |
| 80300 | Preformed Plastic Pavement Marking Type D - Inlaid | Articles 780.08, 1095.03 | April 1, 2012 | April 1, 2016 |
| 80157 | Railroad Protective Liability Insurance (5 and 10) | Article 107.11 | Jan. 1, 2006 | |
| 80306 | Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS) | Section 1031 | Nov. 1, 2012 | Jan. 2, 2021 |
| 80407 | Removal and Disposal of Regulated Substances | Section 669 | Jan. 1 2019 | Jan. 1, 2020 |
| 80419 | Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric | Articles 280.02, 280.04, 1080.02, 1080.03, 1081.15 | Nov. 1, 2019 | July 1, 2021 |
| 80408 | Steel Plate Beam Guardrail Manufacturing | Article 1006.25 | Jan. 1, 2019 | |
| 80413 | Structural Timber | Article 1007.03 | Aug. 1, 2019 | |
| 80298 | Temporary Pavement Marking | Section 703, Article 1095.06 | April 1, 2012 | April 1, 2017 |
| 80409 | Traffic Control Devices – Cones | Article 701.15(a), 1106.02(b) | Jan. 1, 2019 | |
| 80288 | Warm Mix Asphalt | Sections 406, 1030, 1102 | Jan. 1, 2012 | April 1, 2016 |
| 80414 | Wood Fence Sight Screen | Article 641.02 | Aug. 1, 2019 | April 1, 2020 |

The following special provisions require additional information from the designer. The additional information needs to be submitted as a separate document. The Project Coordination and Implementation section will then include the information in the applicable special provision.

- 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
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

**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

**VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)**

Effective: November 1, 2021

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

"The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. The lights shall be in operation while the vehicle or equipment is engaged in construction operations."

80439

**WORK ZONE TRAFFIC CONTROL DEVICES (BDE)**

Effective: March 2, 2020

Add the following to Article 701.03 of the Standard Specifications:

"(q) Temporary Sign Supports .....1106.02"

Revise the third paragraph of Article 701.14 of the Standard Specifications to read:

"For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer's specifications."

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

"**701.15 Traffic Control Devices.** For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer's self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device."

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

"**1106.02 Devices.** Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 1 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 2 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact

attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.

For each type of device, when no more than one MASH-16 compliant is available, an NCHRP 350 or MASH-2009 compliant device may be used, even if manufactured after December 31, 2019."

Revise Articles 1106.02(g), 1106.02(k), and 1106.02(l) to read:

"(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.

(k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department's qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.

(l) Movable Traffic Barrier. The movable traffic barrier shall be on the Department's qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis."

80427

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

# SPECIAL PROVISION FOR COOPERATION WITH UTILITIES

Effective: January 1, 1999
Revised: January 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

Replace Article 105.07 of the Standard Specifications with the following:

"**105.07 Cooperation with Utilities.** The adjustment of utilities consists of the relocation, removal, replacement, rearrangements, reconstruction, improvement, disconnection, connection, shifting, new installation or altering of an existing utility facility in any manner.

When the plans or special provisions include information pertaining to the location of underground utility facilities, such information represents only the opinion of the Department as to the location of such utilities and is only included for the convenience of the bidder. The Department assumes no responsibility in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of the underground utility facilities.

Utilities which are to be adjusted shall be adjusted by the utility owner or the owner's representative or by the Contractor as a contract item. Generally, arrangements for adjusting existing utilities will be made by the Department prior to project construction; however, utilities will not necessarily be adjusted in advance of project construction and, in some cases, utilities will not be removed from the proposed construction limits. When utility adjustments must be performed in conjunction with construction, the utility adjustment work will be shown on the plans and/or covered by Special Provisions.

When the Contractor discovers a utility has not been adjusted by the owner or the owner's representative as indicated in the contract documents, or the utility is not shown on the plans or described in the Special Provisions as to be adjusted in conjunction with construction, the Contractor shall not interfere with said utility, and shall take proper precautions to prevent damage or interruption of the utility and shall promptly notify the Engineer of the nature and location of said utility.

All necessary adjustments, as determined by the Engineer, of utilities not shown on the plans or not identified by markers, will be made at no cost to the Contractor except traffic structures, light poles, etc., that are normally located within the proposed construction limits as hereinafter defined will not be adjusted unless required by the proposed improvement.

(a) Limits of Proposed Construction for Utilities Paralleling the Roadway. For the purpose of this Article, limits of proposed construction for utilities extending in the same longitudinal direction as the roadway, shall be defined as follows:

(1) The horizontal limits shall be a vertical plane, outside of, parallel to, and 600 mm (2 ft) distant at right angles from the plan or revised slope limits.

In cases where the limits of excavation for structures are not shown on the plans, the horizontal limits shall be a vertical plane 1.2 m (4 ft) outside the edges of structure footings or the structure where no footings are required.

(2) The upper vertical limits shall be the regulations governing the roadbed clearance for the specific utility involved.

(3) The lower vertical limits shall be the top of the utility at the depth below the proposed grade as prescribed by the governing agency or the limits of excavation, whichever is less.

(b) Limits of Proposed Construction for Utilities Crossing the Roadway. For the purpose of this Article, limits of proposed construction for utilities crossing the roadway in a generally transverse direction shall be defined as follows:

(1) Utilities crossing excavations for structures that are normally made by trenching such as sewers, underdrains, etc. and all minor structures such as manholes, inlets, foundations for signs, foundations for traffic signals, etc., the limits shall be the space to be occupied by the proposed permanent construction unless otherwise required by the regulations governing the specific utility involved.

(2) For utilities crossing the proposed site of major structures such as bridges, sign trusses, etc., the limits shall be as defined above for utilities extending in the same general direction as the roadway.

The Contractor may make arrangements for adjustment of utilities outside of the limits of proposed construction provided the Contractor furnishes the Department with a signed agreement with the utility owner covering the adjustments to be made. The cost of any adjustments made outside the limits of proposed construction shall be the responsibility of the Contractor unless otherwise provided.

The Contractor shall request all utility owners to field locate their facilities according to Article 107.31. The Engineer may make the request for location from the utility after receipt of notice from the Contractor. On request, the Engineer will make an inspection to verify that the utility company has field located its facilities, but will not assume responsibility for the accuracy of such work. The Contractor shall be responsible for maintaining the excavations or markers provided by the utility owners. This field location procedure may be waived if the utility owner has stated in writing to the Department it is satisfied the construction plans are sufficiently accurate. If the utility owner does not submit such statement to the Department, and they do not field locate their facilities in both horizontal and vertical alignment, the Engineer will authorize the Contractor in writing to proceed to locate the facilities in the most economical and reasonable manner, subject to the approval of the Engineer, and be paid according to Article 109.04.

The Contractor shall coordinate with any planned utility adjustment or new installation and the Contractor shall take all precautions to prevent disturbance or damage to utility facilities. Any failure on the part of the utility owner, or their representative, to proceed with any planned utility adjustment or new installation shall be reported promptly by the Contractor to the Engineer orally and in writing.

The Contractor shall take all necessary precautions for the protection of the utility facilities. The Contractor shall be responsible for any damage or destruction of utility facilities resulting from neglect, misconduct, or omission in the Contractor's manner or method of execution or nonexecution of the work, or caused by defective work or the use of unsatisfactory materials. Whenever any damage or destruction of a utility facility occurs as a result of work performed by the Contractor, the utility company will be immediately notified. The utility company will make arrangements to restore such facility to a condition equal to that existing before any such damage or destruction was done.

It is understood and agreed that the Contractor has considered in the bid all of the permanent and temporary utilities in their present and/or adjusted positions.

No additional compensation will be allowed for any delays, inconvenience, or damage sustained by the Contractor due to any interference from the said utility facilities or the operation of relocating the said utility facilities.

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

# SPECIAL PROVISION FOR INSURANCE

Effective: February 1, 2007
Revised: August 1, 2007



All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

VILLAGE OF VILLA PARK

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA)

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

State of Illinois
DEPARTMENT OF TRANSPORTATION
Bureau of Local Roads & Streets
SPECIAL PROVISION
FOR
LOCAL QUALITY ASSURANCE/ QUALITY MANAGEMENT QC/QA
Effective: January 1, 2022

Replace the first five paragraphs of Article 1030.06 of the Standard Specifications with the following:

"**1030.06 Quality Management Program.** The Quality Management Program (QMP) will be Quality Control / Quality Assurance (QC/QA) according to the following."

Delete Article 1030.06(d)(1) of the Standard Specifications.

Revise Article 1030.09(g)(3) of the Standard Specifications to read:

"(3) If core testing is the density verification method, the Contractor shall provide personnel and equipment to collect density verification cores for the Engineer. Core locations will be determined by the Engineer following the document "Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations" at density verification intervals defined in Article 1030.09(b). After the Engineer identifies a density verification location and prior to opening to traffic, the Contractor shall cut a 4 in. (100 mm) diameter core. With the approval of the Engineer, the cores may be cut at a later time."

Revise Article 1030.09(h)(2) of the Standard Specifications to read:

"(2) After final rolling and prior to paving subsequent lifts, the Engineer will identify the random density verification test locations. Cores or nuclear density gauge testing will be used for density verification. The method used for density verification will be as selected below.

| Density Verification Method | |
|---|---|
| ☒ | Cores |
| ☐ | Nuclear Density Gauge (Correlated when paving ≥ 3,000 tons per mixture) |

Density verification test locations will be determined according to the document "Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations". The density testing interval for paving wider than or equal to 3 ft (1 m) will be 0.5 miles (800 m) for lift thicknesses of 3 in. (75 mm) or less and 0.2 miles (320 m) for lift thicknesses greater than 3 in. (75 mm). The density testing interval for paving less than 3 ft (1 m) wide will be 1 mile (1,600 m). If a day's paving will be less than the prescribed density testing interval, the length of the day's paving will be the interval for that day. The density testing interval for mixtures used for patching will be 50 patches with a minimum of one test per mixture per project.

If core testing is the density verification method, the Engineer will witness the Contractor coring, and secure and take possession of all density samples at the

density verification locations. The Engineer will test the cores collected by the Contractor for density according to Illinois Modified AASHTO T 166 or AASHTO T 275.

If nuclear density gauge testing is the density verification method, the Engineer will conduct nuclear density gauge tests. The Engineer will follow the density testing procedure detailed in the document "Illinois Modified ASTM D 2950, Standard Test Method for Density of Bituminous Concrete In-Place by Nuclear Method".

A density verification test will be the result of a single core or the average of the nuclear density tests at one location. The results of each density test must be within acceptable limits. The Engineer will promptly notify the Contractor of observed deficiencies."

Revise the seventh paragraph and all subsequent paragraphs in Section D. of the document "Hot-Mix Asphalt QC/QA Initial Daily Plant and Random Samples" to read:

"Mixtures shall be sampled from the truck at the plant by the Contractor following the same procedure used to collect QC mixture samples (Section A). This process will be witnessed by the Engineer who will take custody of the verification sample. Each sample bag with a verification mixture sample will be secured by the Engineer using a locking ID tag. Sample boxes containing the verification mixture sample will be sealed/taped by the Engineer using a security ID label."

| | |
|---|---|
| ABV | ABOVE |
| A/C | ACCESS CONTROL |
| AC | ACRE |
| ADJ | ADJUST |
| AS | AERIAL SURVEYS |
| AGG | AGGREGATE |
| AH | AHEAD |
| APT | APARTMENT |
| ASPH | ASPHALT |
| AUX | AUXILIARY |
| AGS | AUXILIARY GAS VALVE (SERVICE) |
| AVE | AVENUE |
| AX | AXIS OF ROTATION |
| BK | BACK |
| B-B | BACK TO BACK |
| BKPL | BACKPLATE |
| B | BARN |
| BARR | BARRICADE |
| BL | BASELINE |
| BGN | BEGIN |
| BM | BENCHMARK |
| BIND | BINDER |
| BIT | BITUMINOUS |
| BTM | BOTTOM |
| BLVD | BOULEVARD |
| BRK | BRICK |
| BBOX | BUFFALO BOX |
| BLDG | BUILDING |
| CATV | CABLE |
| CIP | CAST IRON PIPE |
| CB | CATCH BASIN |
| C-C | CENTER TO CENTER |
| CL | CENTERLINE OR CLEARANCE |
| CL-E | CENTERLINE TO EDGE |
| CL-F | CENTERLINE TO FACE |
| CTS | CENTERS |
| CERT | CERTIFIED |
| CHSLD | CHISELED |
| CS | CITY STREET |
| CP | CLAY PIPE |
| CLSD | CLOSED |
| CLID | CLOSED LID |
| CT | COAT OR COURT |
| COMB | COMBINATION |
| C | COMMERCIAL BUILDING |
| CE | COMMERCIAL ENTRANCE |
| CONC | CONCRETE |
| CONST | CONSTRUCT |
| CONTD | CONTINUED |
| CONT | CONTINUOUS |
| COR | CORNER |
| CORR | CORRUGATED |
| CMP | CORRUGATED METAL PIPE |
| CNTY | COUNTY |
| CH | COUNTY HIGHWAY |
| CSE | COURSE |
| XSECT | CROSS SECTION |
| $m^3$ | CUBIC METER |
| $mm^3$ | CUBIC MILLIMETER |
| CU YD | CUBIC YARD |
| CULV | CULVERT |
| C&G | CURB & GUTTER |
| D | DEGREE OF CURVE |
| DC | DEPRESSED CURVE |
| DET | DETECTOR |
| DIA | DIAMETER |
| DIST | DISTRICT |
| DOM | DOMESTIC |
| DBL | DOUBLE |
| DSEL | DOWNSTREAM ELEVATION |
| DSFL | DOWNSTREAM FLOWLINE |
| DR | DRAINAGE OR DRIVE |
| DI | DRAINAGE INLET OR DROP INLET |
| DRV | DRIVEWAY |
| DCT | DUCT |
| EA | EACH |
| EB | EASTBOUND |
| EOP | EDGE OF PAVEMENT |
| E-CL | EDGE TO CENTERLINE |
| E-E | EDGE TO EDGE |
| ELEC | ELECRICAL |
| EL | ELEVATION |
| ENTR | ENTRANCE |
| EXC | EXCAVATION |
| EX | EXISTING |
| EXPWAY | EXPRESSWAY |
| E | EXTERNAL DISTANCE OF HORIZONTAL CURVE |
| E | OFFSET DISTANCE TO VERTICAL CURVE |
| F-F | FACE TO FACE |
| FA | FEDERAL AID |
| FAI | FEDERAL AID INTERSTATE |
| FAP | FEDERAL AID PRIMARY |
| FAS | FEDERAL AID SECONDARY |
| FAUS | FEDERAL AID URBAN SECONDARY |
| FP | FENCE POST |
| OPT | FIBER OPTIC |
| FE | FIELD ENTRANCE |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FB | FOOT BRIDGE |
| FDN | FOUNDATION |
| FR | FRAME |
| F&G | FRAME & GRATE |
| FRWAY | FREEWAY |
| GAL | GALLON |
| GALV | GALVANIZED |
| G | GARAGE |
| GM | GAS METER |
| GV | GAS VALVE |
| GIS | GEOGRAPHICAL INFORMATION SYSTEM |
| GRAN | GRANULAR |
| GR | GRATE |
| GRVL | GRAVEL |
| GND | GROUND |
| GUT | GUTTER |
| GP | GUY POLE |
| GW | GUY WIRE |
| HH | HANDHOLE |
| HATCH | HATCHING |
| HD | HEAD |
| HDW | HEADWALL |
| HDUTY | HEAVY DUTY |
| ha | HECTARE |
| HMA | HOT MIX ASPHALT |
| HWY | HIGHWAY |
| HORIZ | HORIZONTAL |
| HSE | HOUSE |
| IL | ILLINOIS |
| IMP | IMPROVEMENT |
| IN DIA | INCH DIAMETER |
| INL | INLET |
| INST | INSTALLATION |
| IDS | INTERSECTION DESIGN STUDY |
| INV | INVERT |
| IP | IRON PIPE |
| IR | IRON ROD |
| JT | JOINT |
| kg | KILOGRAM |
| km | KILOMETER |
| LS | LANDSCAPING |
| LN | LANE |
| LT | LEFT |
| LIDAR | LIGHT DETECTION AND RANGING |
| LP | LIGHT POLE |
| LGT | LIGHTING |
| LF | LINEAL FEET OR LINEAR FEET |
| L | LITER OR CURVE LENGTH |
| LC | LONG CHORD |
| LNG | LONGITUDINAL |
| L SUM | LUMP SUM |
| MACH | MACHINE |
| MB | MAIL BOX |
| MH | MANHOLE |
| MATL | MATERIAL |
| MED | MEDIAN |
| m | METER |
| METH | METHOD |
| M | MID-ORDINATE |
| mm | MILLIMETER |
| mm DIA | MILLIMETER DIAMETER |
| MIX | MIXTURE |
| MBH | MOBILE HOME |
| MOD | MODIFIED |
| MFT | MOTOR FUEL TAX |
| N & BC | NAIL & BOTTLE CAP |
| N & C | NAIL & CAP |
| N & W | NAIL & WASHER |
| NC | NORMAL CROWN |
| NB | NORTHBOUND |
| NE | NORTHEAST |
| NW | NORTHWEST |
| O/S | OFFSET |
| O&C | OIL AND CHIP |
| OLID | OPEN LID |
| PAT | PATTERN |
| PVD | PAVED |
| PVMT | PAVEMENT |
| PM | PAVEMENT MARKING |
| PED | PEDESTAL |
| PNT | POINT |
| PC | POINT OF CURVATURE |
| PI | POINT OF INTERSECTION OF HORIZONTAL CURVE |
| PRC | POINT OF REVERSE CURVE |
| PT | POINT OF TANGENCY |
| POT | POINT ON TANGENT |
| POLYETH | POLYETHYLENE |
| PCC | PORTLAND CEMENT CONCRETE |
| PP | POWER POLE OR PRINCIPAL POINT |
| PRM | PRIME |
| PE | PRIVATE ENTRANCE |
| PROF | PROFILE |
| PGL | PROFILE GRADELINE |
| PROJ | PROJECT |
| P.C. | PROPERTY CORNER |
| PL | PROPERTY LINE |
| PR | PROPOSED |
| R | RADIUS or RESIDENTUAL |
| RR | RAILROAD |
| RRS | RAILROAD SPIKE |
| RPS | REFERENCE POINT STAKE |
| REF | REFLECTIVE |
| RCCP | REINFORCED CONCRETE CULVERT PIPE |
| REINF | REINFORCEMENT |
| REM | REMOVAL |
| RC | REMOVE CROWN |
| REP | REPLACEMENT |
| REST | RESTAURANT |
| RESURF | RESURFACING |
| RET | RETAINING |
| RT | RIGHT |
| ROW | RIGHT-OF-WAY |
| RD | ROAD |
| RDWY | ROADWAY |
| RTE | ROUTE |
| SAN | SANITARY |
| SANS | SANITARY SEWER |
| SEC | SECTION |
| SEED | SEEDING |
| SHAP | SHAPING |
| S | SHED |
| SH | SHEET |
| SHLD | SHOULDER |
| SW | SIDEWALK OR SOUTHWEST |
| SIG | SIGNAL |
| SOD | SODDING |
| SM | SOLID MEDIAN |
| SB | SOUTHBOUND |
| SE | SOUTHEAST |
| SPL | SPECIAL |
| SD | SPECIAL DITCH |
| SQ FT | SQUARE FEET |
| $m^2$ | SQUARE METER |
| $mm^2$ | SQUARE MILLIMETER |
| SQ YD | SQUARE YARD |
| STB | STABILIZED |
| STD | STANDARD |
| SBI | STATE BOND ISSUE |
| SR | STATE ROUTE |
| STA | STATION |
| SPBGR | STEEL PLATE BEAM GUARDRAIL |
| SS | STORM SEWER |
| STY | STORY |
| ST | STREET |
| STR | STRUCTURE |
| e | SUPERELEVATION RATE |
| S.E. RUN. | SUPERELEVATION RUNOFF LENGTH |
| SURF | SURFACE |
| SMK | SURVEY MARKER |
| T | TANGENT DISTANCE |
| T.R. | TANGENT RUNOUT DISTANCE |
| TEL | TELEPHONE |
| TB | TELEPHONE BOX |
| TP | TELEPHONE POLE |
| TEMP | TEMPORARY |
| TBM | TEMPORARY BENCH MARK |
| TD | TILE DRAIN |
| TBE | TO BE EXTENDED |
| TBR | TO BE REMOVED |
| TBS | TO BE SAVED |
| TWP | TOWNSHIP |
| TR | TOWNSHIP ROAD |
| TS | TRAFFIC SIGNAL |
| TSCB | TRAFFIC SIGNAL CONTROL BOX |
| TSC | TRAFFIC SYSTEMS CENTER |
| TRVS | TRANSVERSE |
| TRVL | TRAVEL |
| TRN | TURN |
| TY | TYPE |
| T-A | TYPE A |
| TYP | TYPICAL |
| UNDGND | UNDERGROUND |
| USGS | U.S. GEOLOGICAL SURVEY |
| USEL | UPSTREAM ELEVATION |
| USFL | UPSTREAM FLOWLINE |
| UTIL | UTILITY |
| VBOX | VALVE BOX |
| VV | VALVE VAULT |
| VLT | VAULT |
| VEH | VEHICLE |
| VP | VENT PIPE |
| VERT | VERTICAL |
| VC | VERTICAL CURVE |
| VPC | VERTICAL POINT OF CURVATURE |
| VPI | VERTICAL POINT OF INTERSECTION |
| VPT | VERTICAL POINT OF TANGENCY |
| WM | WATER METER |
| WV | WATER VALVE |
| WMAIN | WATER MAIN |
| WB | WESTBOUND |
| WILDFL | WILDFLOWERS |
| W | WITH |
| WO | WITHOUT |



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| DATE | REVISIONS |
|---|---|
| 1-1-21 | Updated fonts, abbreviations |
| | and symbols. |
| | |
| 1-1-19 | Added new symbols. |
| | |
| | |

# STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS



**STANDARD 000001-08**

## ADJUSTMENT ITEMS

| | EX | PR |
|---|---|---|
| Structure To Be Adjusted | | ADJ |
| Structure To Be Cleaned | | C |
| Main Structure To Be Filled | | FM |
| Structure To Be Filled | | F |
| Structure To Be Filled Special | | FSP |
| Structure To Be Removed | | R |
| Structure To Be Reconstructed | | REC |
| Structure To Be Reconstructed Special | | RSP |
| Frame and Grate To Be Adjusted | | A |
| Frame and Lid To Be Adjusted | | A |
| Domestic Service Box To Be Adjusted | | A |
| Valve Vault To Be Adjusted | | A |
| Special Adjustment | | SP |
| Item To Be Abandoned | | AB |
| Item To Be Moved | | M |
| Item To Be Relocated | | REL |
| Pavement Removal and Replacement | | |

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## ALIGNMENT ITEMS

| | EX | PR |
|---|---|---|
| Baseline | | |
| Centerline | | |
| Centerline Break Circle | | |
| Baseline Symbol | | |
| Centerline Symbol | | |
| PI Indicator | | |
| Point Indicator | | |
| Horizontal Curve Data (Half Size) | EX. CURVE<br>P.I. STA=<br>Δ=<br>D=<br>R=<br>T=<br>L=<br>E=<br>e=<br>T.R.=<br>S.E. RUN=<br>P.C. STA=<br>P.T. STA= | CURVE<br>P.I. STA=<br>Δ=<br>D=<br>R=<br>T=<br>L=<br>E=<br>e=<br>T.R.=<br>S.E. RUN=<br>P.C. STA=<br>P.T. STA= |

## BOUNDARIES ITEMS

| | EX | PR |
|---|---|---|
| Dashed Property Line | | |
| Solid Property/Lot Line | | |
| Section/Grant Line | | |
| Quarter Section Line | | |
| Quarter/Quarter Section Line | | |
| County/Township Line | | |
| State Line | | |
| Chiseled Square Found | | |
| Iron Pipe Found | | |
| Iron Pipe Set | | |
| Survey Marker | | |
| Property Line Symbol | | |
| Same Ownership Symbol (Half Size) | | |
| Northwest Quarter Corner (Half Size) | | |
| Section Corner (Half Size) | | |
| Southeast Quarter Corner (Half Size) | | |

## DRAINAGE ITEMS

| | EX | PR |
|---|---|---|
| Channel or Stream Line | | |
| Culvert Line | | |
| Grading & Shaping Ditches | | |
| Drainage Boundary Line | | |
| Paved Ditch | | |
| Aggregate Ditch | | |
| Pipe Underdrain | | |
| Storm Sewer | | |
| Flowline | | |
| Ditch Check | | |
| Headwall | | |
| Inlet | | |
| Manhole | | |
| Summit | | |
| Roadway Ditch Flow | | |
| Swale | | |
| Catch Basin | | |
| Culvert End Section | | |
| Water Surface Indicator | | |
| Riprap | | |

## HYDRAULICS ITEMS

| | EX | PR |
|---|---|---|
| Overflow | | |
| Sheet Flow | | |
| Hydrant Outlet | | |



# STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS



**STANDARD 000001-08**

## EROSION & SEDIMENT CONTROL ITEMS

| | EX | PR |
|---|---|---|
| Cleaning & Grading Limits | | |
| Dike | | |
| Erosion Control Fence | | |
| Perimeter Erosion Barrier | | |
| Temporary Fence | | |
| Ditch Check Temporary | | |
| Ditch Check Permanent | | |
| Inlet & Pipe Protection | | |
| Sediment Basin | | |
| Erosion Control Blanket | | |
| Fabric Formed Concrete Revetment Mat | | |
| Turf Reinforcement Mat | | |
| Mulch Temporary | | |
| Mulch Method 1 | | |
| Mulch Method 2 Stabilized | | |
| Mulch Method 3 Hydraulic | | |

## CONTOUR ITEMS

| | EX | PR |
|---|---|---|
| Approx. Index Line | | |
| Approx. Intermediate Line | | |
| Index Contour | | |
| Intermediate Contour | | |

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## NON-HIGHWAY IMPROVEMENT ITEMS

| | EX | PR |
|---|---|---|
| Noise Attn./Levee | | |
| Field Line | | |
| Fence | | |
| Base of Levee | | |
| Mailbox | | |
| Multiple Mailboxes | | |
| Pay Telephone | | |
| Advertising Sign | | |
| ITS* Camera | | |
| Wind Turbine | | |
| Cellular Tower | | |

*Intelligent Transportation Systems

## LANDSCAPING ITEMS

| | EX | PR |
|---|---|---|
| Contour Mounding Line | | |
| Fence | | |
| Fence Post | | |
| Shrubs | | |
| Mowline | | |
| Perennial Plants | | |
| Seeding Class 2 | | |
| Seeding Class 2A | | |
| Seeding Class 4 | | |
| Seeding Class 4 & 5 Combined | | |

## EXISTING LANDSCAPING ITEMS (contd.)

| | EX | PR |
|---|---|---|
| Seeding Class 5 | | |
| Seeding Class 7 | | |
| Seedlings Type 1 | | |
| Seedlings Type 2 | | |
| Sodding | | |
| Mowstake w/Sign | | |
| Tree Trunk Protection | | |
| Evergreen Tree | E | |
| Shade Tree | E | |

## LIGHTING

| | EX | PR |
|---|---|---|
| Duct | | |
| Conduit | | |
| Electrical Aerial Cable | A | A |
| Electrical Buried Cable | L | L |
| Controller | | |
| Underpass Luminaire | | |
| Power Pole | | |



# STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS



STANDARD 000001-08

## 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 |
|---|---|---|
| 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 | | |



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# STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS



**STANDARD 000001-08**

## PAVEMENT MARKINGS (contd.)

| | EX | PR |
|---|---|---|
| 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 | | |
| Urban Combination Left | | |
| Urban Combination Right | | |
| Urban Left Turn Arrow | | |
| Urban Right Turn Arrow | | |
| Urban Left Turn Only | | |
| Urban Right Turn Only | | |
| Urban Thru Only | | |
| Urban LT & RT Turn Arrow | | |
| Urban Thru Arrow | | |



| 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 | | |

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# STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 5 of 9)

**STANDARD 000001-08**

## PAVEMENT MARKINGS (contd.)

| | EX | PR |
|---|---|---|
| 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 | | |
| Rural Right Turn Only | | |
| Rural Thru Only | | |
| Rural Thru Arrow | | |
| Rural Lt & Rt Turn Arrow | | |
| Bike Lane Symbol | | |
| Bike Lane Text | | |
| Bike Path Shared | | |
| Bike Shared Roadway | | |
| Lane Drop Symbol | | |
| Wrong Way Arrow | | |



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# STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 6 of 9)

**STANDARD 000001-08**

## RIGHT OF WAY ITEMS (contd.)

| | EX | PR |
|---|---|---|
| Access Control Line | | AC |
| Access Control Line & ROW | AC | AC |
| Access Control Line & ROW with Fence | AC | 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) | | |
| Match Line | | STA. 45+00 |
| Slope Limit Line | | |
| Typical Cross-Section Line | | |

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## ROADWAY PROFILES

| | EX | PR |
|---|---|---|
| P.I. Indicator | | |
| Point Indicator | | |
| Earthworks Balance Point | | |
| Begin Point | | |
| Vert. Curve Data | VPI =<br>ELEV=<br>L =<br>E = | VPI =<br>ELEV=<br>L =<br>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(O) (Half Size) | | DETOUR AHEAD |
| Left Lane Closed Ahead W20-5L(O) (Half Size) | | LEFT LANE CLOSED AHEAD |
| Right Lane Closed Ahead W20-5R(O) (Half Size) | | RIGHT LANE CLOSED AHEAD |
| Road Closed Ahead W20-3(O) (Half Size) | | ROAD CLOSED AHEAD |
| Road Construction Ahead W20-1-(O) (Half Size) | | ROAD CONSTRUCTION AHEAD |
| Single Lane Ahead (Half Size) | | SINGLE LANE AHEAD |
| Transition Left W4-2L (Half Size) | | |
| Transition Right W4-2R (Half Size) | | |

# STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 7 of 9)

**STANDARD 000001-08**

## 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 |
| Detour M4-10R-(O) (Half Size) | | DETOUR |
| One Way Left R6-1L (Half Size) | | ONE WAY |
| One Way Right R6-1R (Half Size) | | ONE WAY |
| Left Turn Lane R3-I100L (Half Size) | | LEFT TURN LANE |
| Keep Left R4-7AL (Half Size) | | KEEP LEFT |
| Keep Left R4-7BL (Half Size) | | KEEP LEFT |
| Keep Right R4-7AR (Half Size) | | KEEP RIGHT |
| Keep Right R4-7BR (Half Size) | | KEEP RIGHT |
| Stop Here On Red R10-6-AL (Half Size) | | STOP HERE ON RED |
| Stop Here On Red R10-6-AR (Half Size) | | STOP HERE ON RED |
| No Left Turn R3-2 (Half Size) | | |
| No Right Turn R3-1 (Half Size) | | |
| Road Closed R11-2 (Half Size) | | ROAD CLOSED |
| Road Closed Thru Traffic R11-2 (Half Size) | | ROAD CLOSED TO THRU TRAFFIC |

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## 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 | G | G |
| Left Turn Yellow | Y | Y |
| Signal Backplate | | |
| Signal Section 8" (200 mm) | | |
| Signal Section 12" (300 mm) | | |
| Walk/Don't Walk Letters | DW / W | DW / W |
| 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 | | |

# STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 8 of 9)

**STANDARD 000001-08**

## 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 | | |

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## UNDERGROUND UTILITY ITEMS

| | EX | PR | ABANDONED |
|---|---|---|---|
| Cable TV | CTV | CTV | CTV |
| Electric Cable | E | E | E |
| Fiber Optic | FO | FO | FO |
| Gas Pipe | G | G | G |
| Oil Pipe | O | O | O |
| Sanitary Sewer | | | |
| Telephone Cable | T | T | T |
| Water Pipe | W | W | W |

## UTILITIES ITEMS

| | EX | PR |
|---|---|---|
| Controller | | |
| Double Handhole | | |
| Fire Hydrant | | |
| GuyWire or Deadman Anchor | | |
| Handhole | | |
| Heavy Duty Handhole | | |
| Junction Box | | |
| Light Pole | | |
| Manhole | | |
| Monitoring Well (Gasoline) | MW | |
| 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 | A A | A A |

## VEGETATION ITEMS

| | EX | PR |
|---|---|---|
| Deciduous Tree | | |
| Bush or Shrub | | |
| Evergreen Tree | | |
| Stump | | |
| Orchard/Nursery Line | | |
| Vegetation Line | | |
| Woods & Bush Line | | |

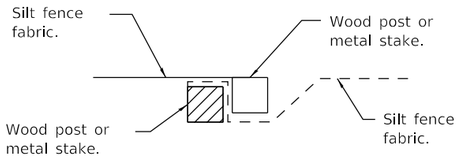
## WATER FEATURE ITEMS

| | EX | PR |
|---|---|---|
| Stream or Drainage Ditch | | |
| Waters Edge | | |
| Water Surface Indicator | | |
| Water Point | | |
| Disappearing Ditch | | |
| Marsh | | |
| Marsh/Swamp Boundary | | |

# STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

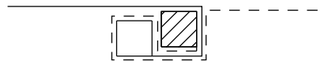


**STANDARD 000001-08**




Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as swown.

## STEP 1

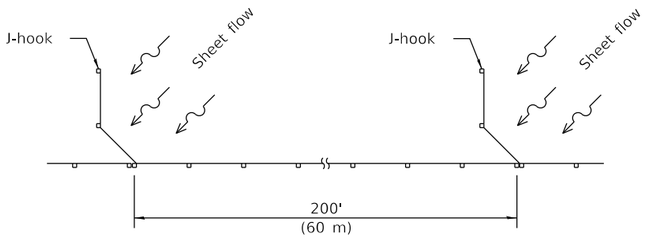


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

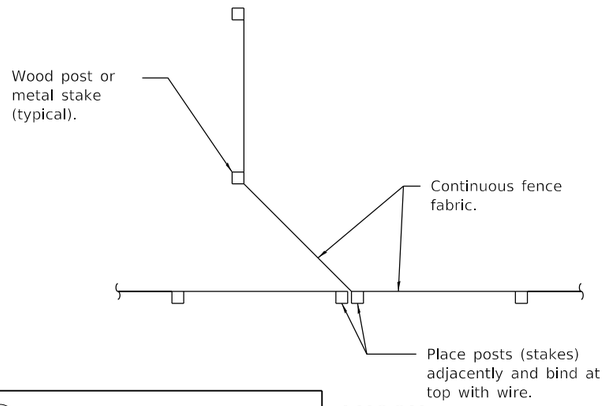
## STEP 2

## ATTACHING TWO SILT FILTER FENCES

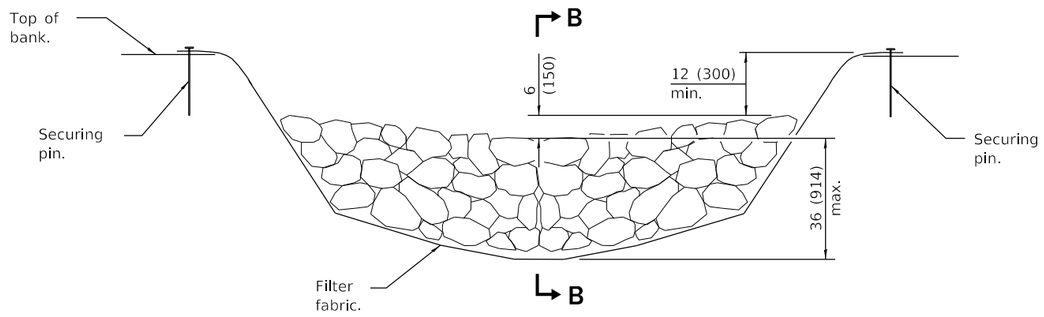
(Not applicable for J-hooks)




## SILT FILTER J-HOOK PLACEMENT

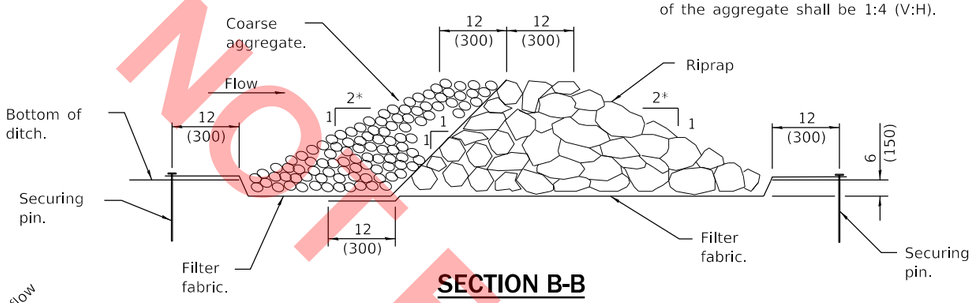



## J-HOOK



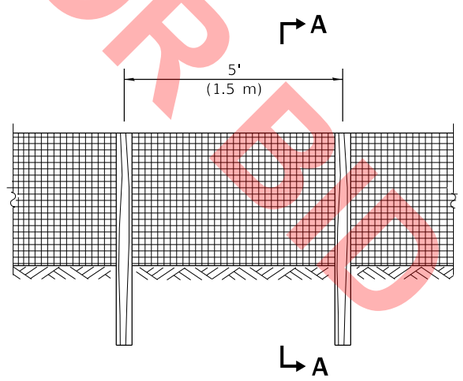

## ELEVATION

* When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



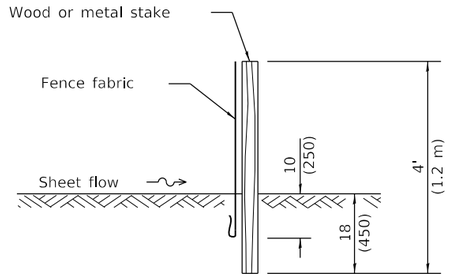

## SECTION B-B

## AGGREGATE DITCH CHECK

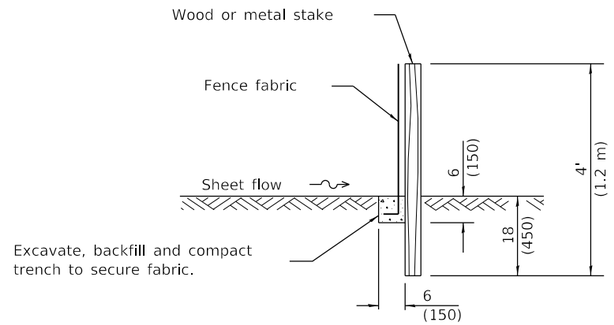



## ELEVATION

## SILT FILTER FENCE AS A PERIMETER EROSION BARRIER




## SLICE METHOD




## TRENCH METHOD

## SECTION A-A

## GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

All dimensions are in inches (millimeters) unless otherwise shown.

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ENGINEER OF DESIGN AND ENVIRONMENT

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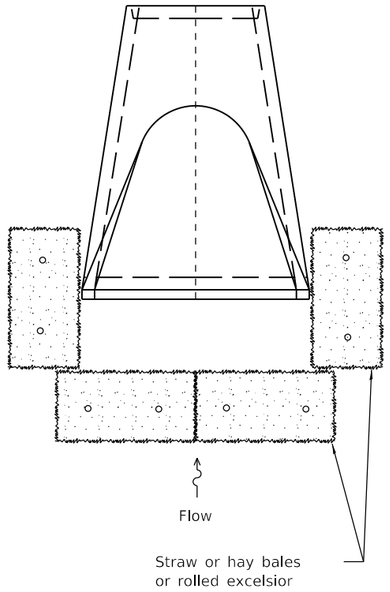
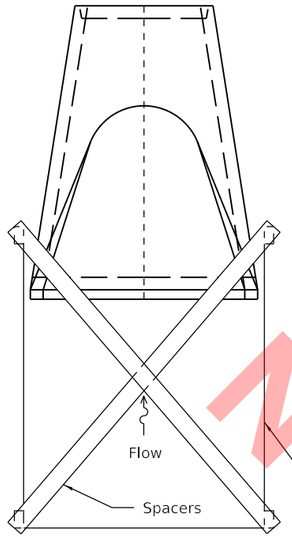
| DATE | REVISIONS |
|---|---|
| 1-1-13 | Corrected notation for |
| | flowline (℄) on SEDIMENT |
| | BASIN ELEVATION. |
| 1-1-12 | Omitted hay/straw perimeter |
| | barrier. Added SLICE METHOD |
| | to SECTION A-A. |

# TEMPORARY EROSION CONTROL SYSTEMS

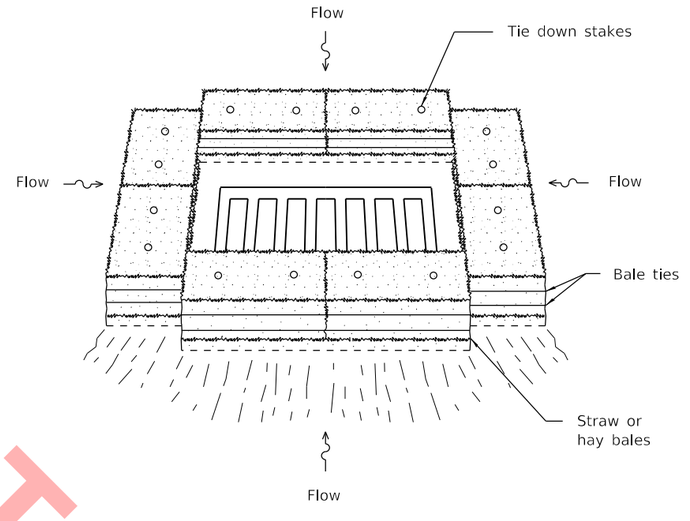
(Sheet 1 of 2)

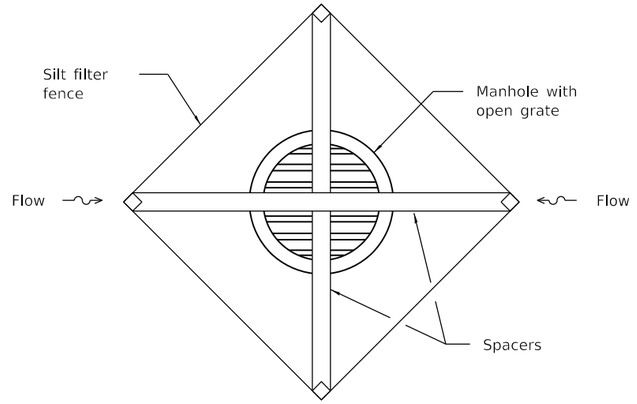
STANDARD 280001-07

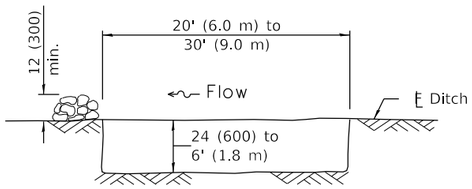



## INLET AND PIPE PROTECTION

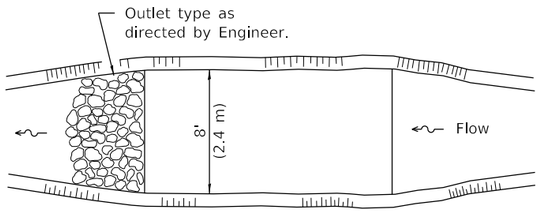



The performance of the basin will improve if put into a series.

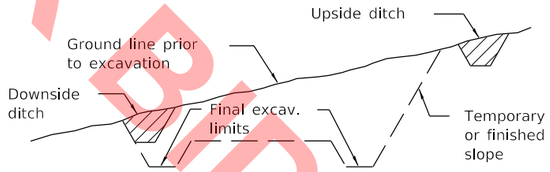
## ELEVATION



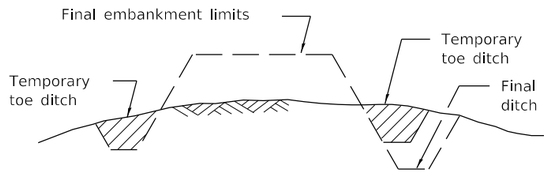

The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

## PLAN

## SEDIMENT BASIN




## TYPICAL CUT CROSS-SECTION




## TYPICAL FILL CROSS-SECTION

## TEMPORARY DITCHES FOR CUT & FILL SECTIONS

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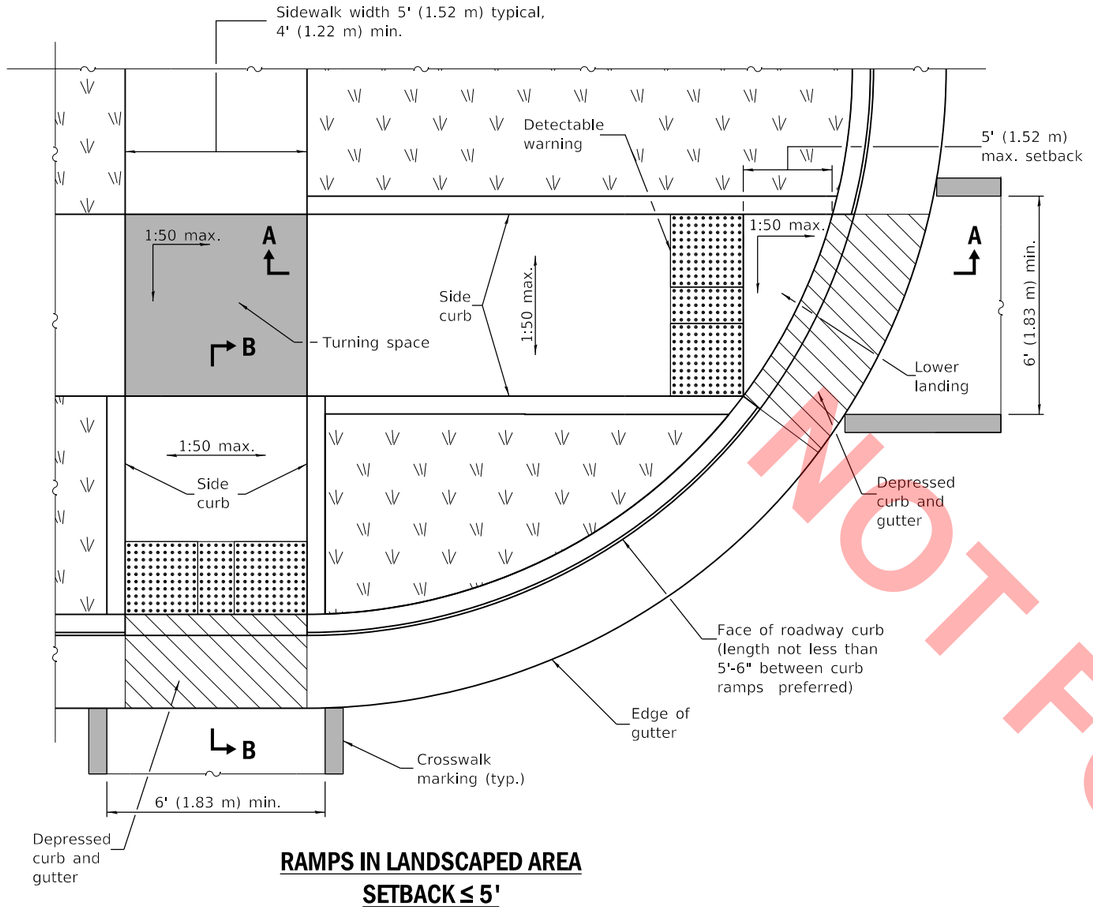
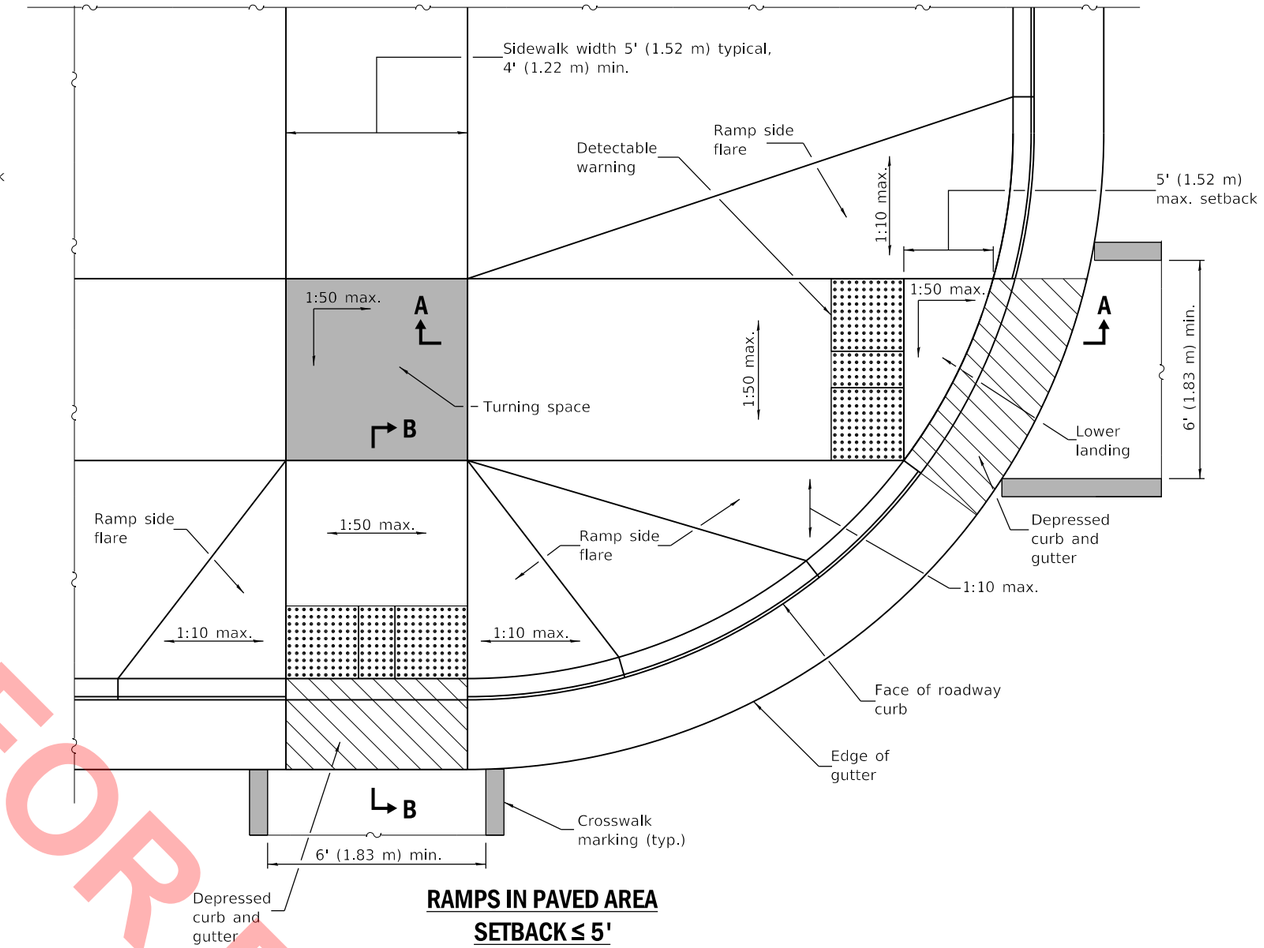
# TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 2 of 2)

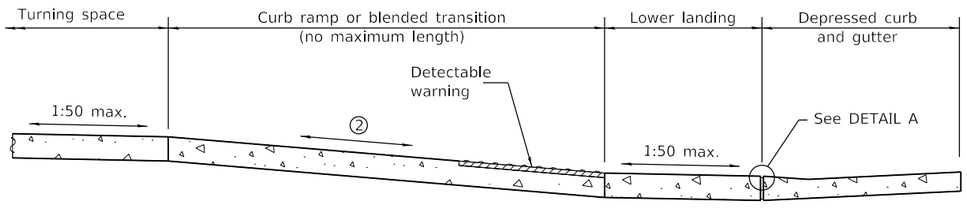
STANDARD 280001-07




**RAMPS IN LANDSCAPED AREA**
**SETBACK ≤ 5'**

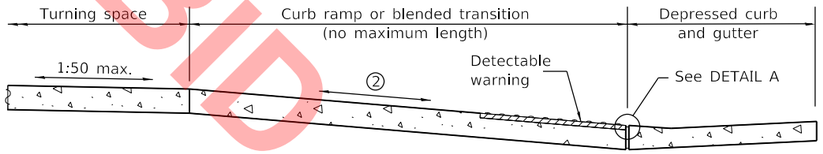



**RAMPS IN PAVED AREA**
**SETBACK ≤ 5'**



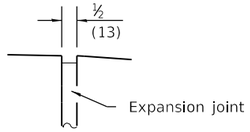

**SECTION A-A**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

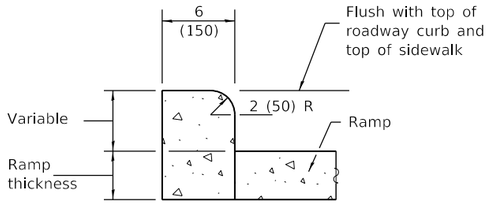



**SECTION B-B**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.




**DETAIL A**




**SIDE CURB DETAIL**



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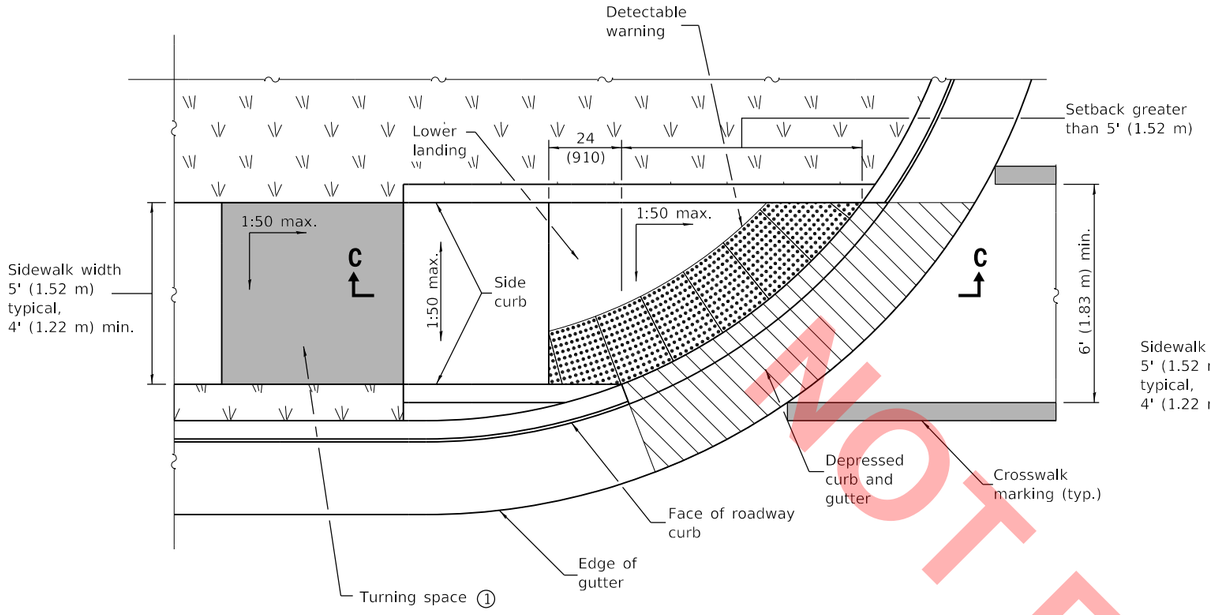
See Sheet 2 for GENERAL NOTES.

| DATE | REVISIONS |
|---|---|
| 1-1-19 | Removed "15-foot rule", added |
| | "Blended transitions" and placement |
| | tolerances for detectable warnings. |
| 1-1-18 | Omitted diagonal slope at |
| | turning spaces and lower |
| | landings. |

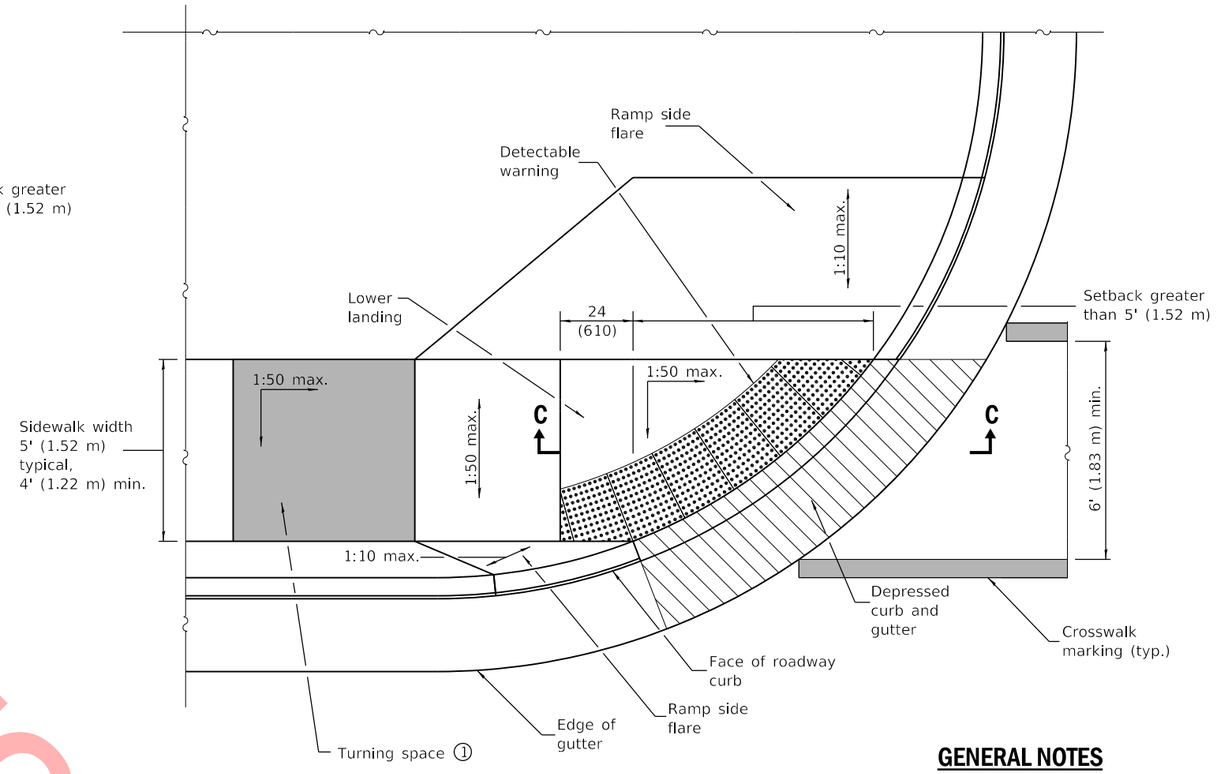
# PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 1 of 2)

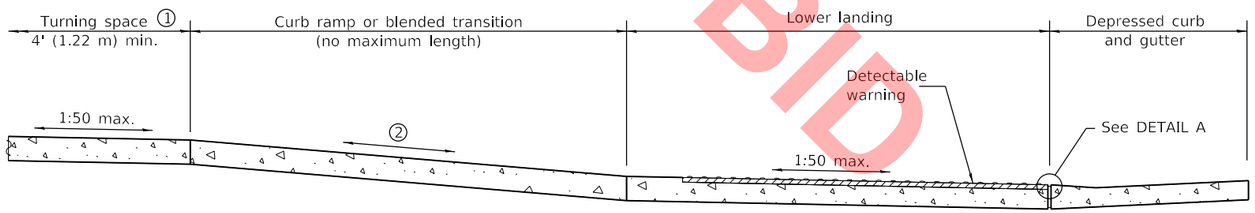
**STANDARD 424001-11**




## RAMP IN LANDSCAPED AREA SETBACK > 5'




## RAMP IN PAVED AREA SETBACK > 5'




## SECTION C-C

① This turning space not required for blended transitions.

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

## GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

All dimensions are in inches (millimeters) unless otherwise shown.



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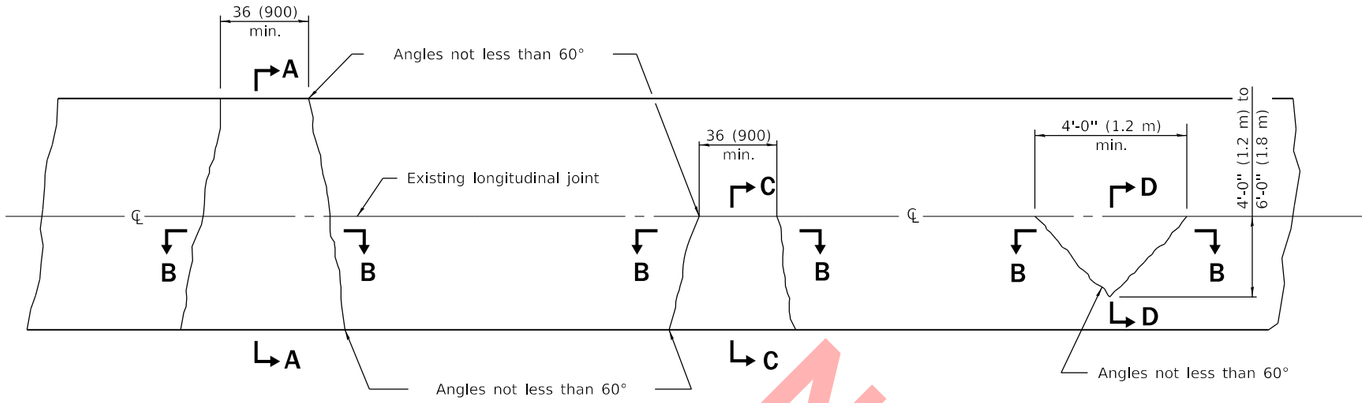
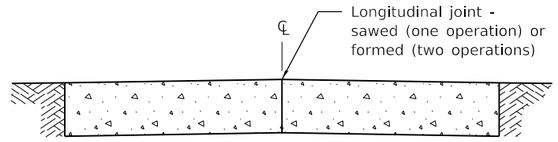
# PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 2 of 2)

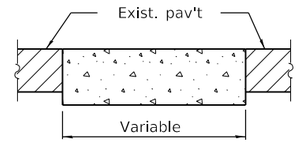
STANDARD 424001-11

## CLASS C

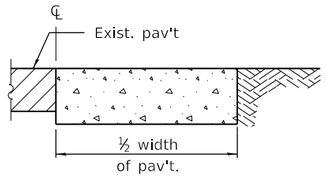


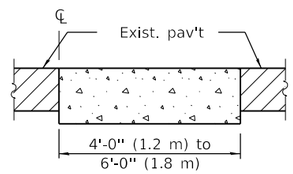

SECTION A-A



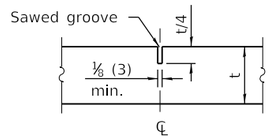

SECTION B-B




SECTION C-C



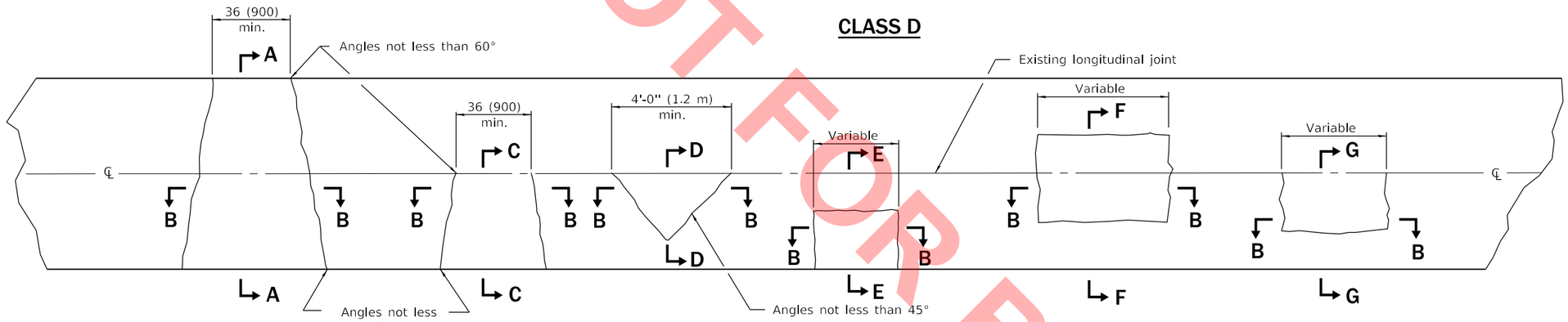

SECTION D-D

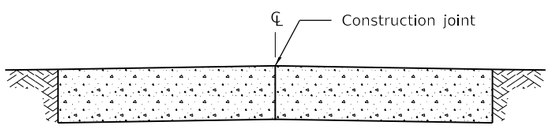



DETAIL OF SAWED CONTRACTION JOINT

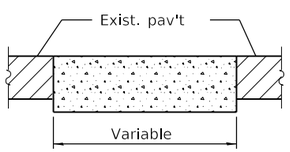
Note:
Longitudinal joints shall be as detailed on Standard 420001, except tie bars are not required for patches 20'-0" (6.0 m) or less in length.

## CLASS D

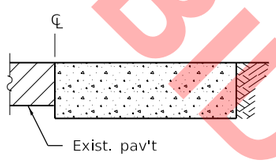


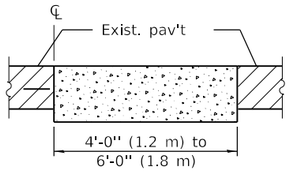

SECTION A-A
(Built in two operations)



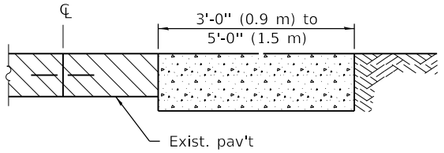

SECTION B-B



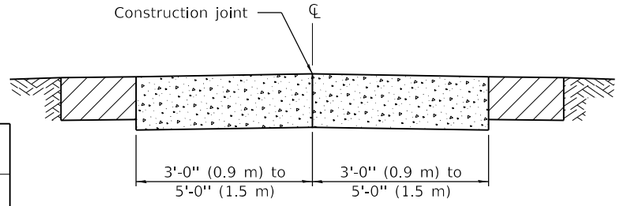

SECTION C-C



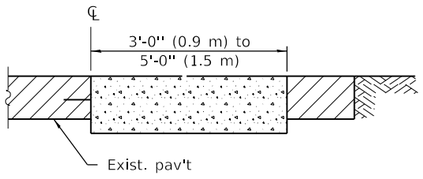

SECTION D-D




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.

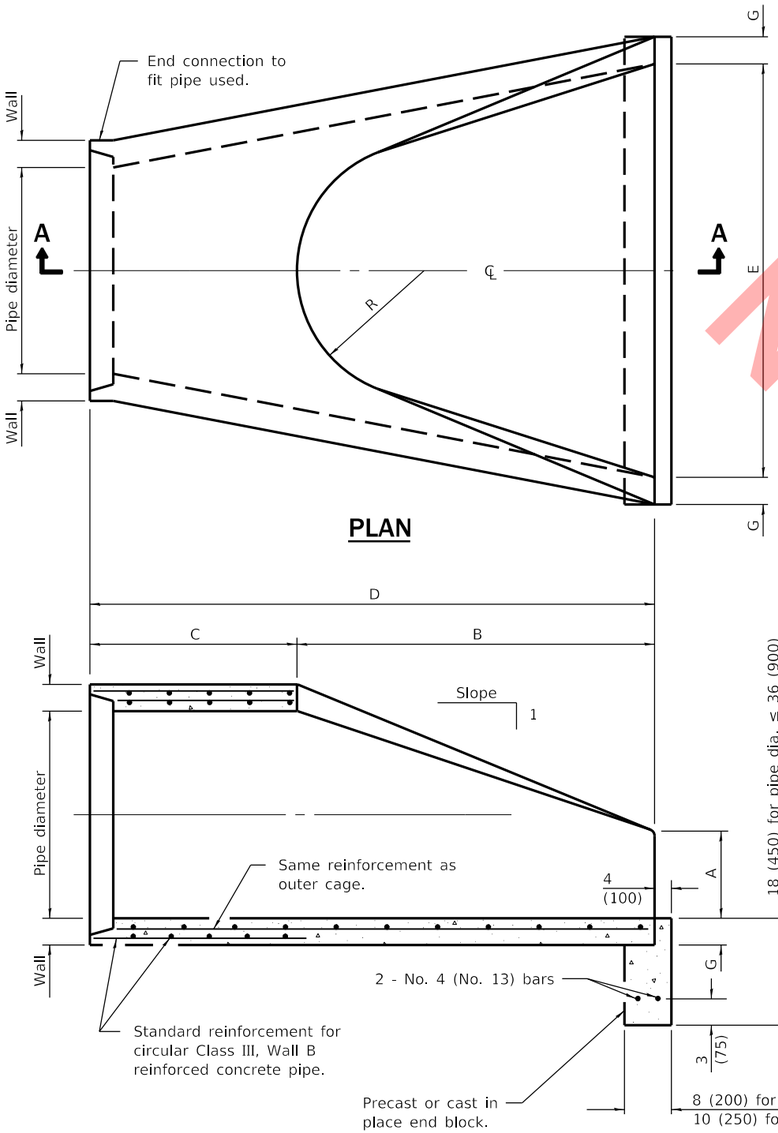
Illinois Department of Transportation

PASSED January 1, 2008
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

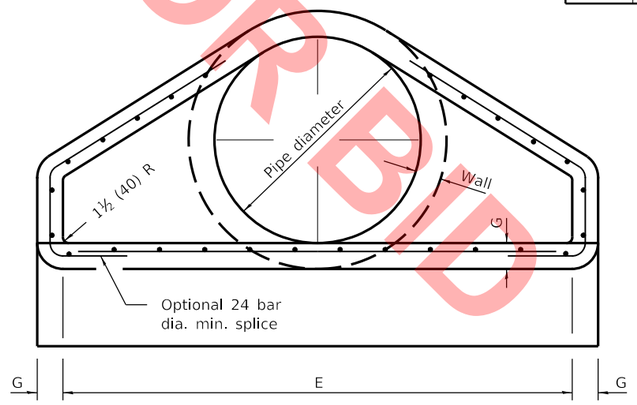
| DATE | REVISIONS |
|---|---|
| 1-1-08 | Switched units to |
| | English (metric). |
| | |
| 1-1-07 | Revised Note for |
| | Class C patches. |
| | |

# CLASS C and D PATCHES

STANDARD 442201-03




## SECTION A-A




## END VIEW

| PIPE DIA. | APPROX. QTY. lbs. (kg) | WALL | A | B | C | D | E | G | R | APPROX. SLOPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 12 (300) | 530 (240) | 2 (51) | 4 (102) | 24 (610) | 4'-0⅞" (1.241 m) | 6'-0⅞" (1.851 m) | 24 (610) | 2 (51) | 9 (229) | 1:2.4 |
| 15 (375) | 740 (335) | 2¼ (57) | 6 (152) | 27 (686) | 3'-10" (1.168 m) | 6'-1" (1.854 m) | 30 (762) | 2¼ (57) | 11 (280) | 1:2.4 |
| 18 (450) | 990 (450) | 2½ (64) | 9 (229) | 27 (686) | 3'-10" (1.168 m) | 6'-1" (1.854 m) | 36 (914) | 2½ (64) | 12 (305) | 1:2.4 |
| 21 (525) | 1280 (580) | 2¾ (70) | 9 (229) | 35 (889) | 38 (965) | 6'-1" (1.854 m) | 3'-6" (1.067 m) | 2¾ (70) | 13 (330) | 1:2.4 |
| 24 (600) | 1520 (690) | 3 (76) | 9½ (241) | 3'-7½" (1.105 m) | 30 (762) | 6'-1½" (1.867 m) | 4'-0" (1.219 m) | 3 (76) | 14 (356) | 1:2.5 |
| 27 (675) | 1930 (875) | 3¼ (83) | 10½ (267) | 4'-0" (1.219 m) | 25½ (648) | 6'-1½" (1.867 m) | 4'-6" (1.372 m) | 3¼ (83) | 14½ (368) | 1:2.4 |
| 30 (750) | 2190 (995) | 3½ (89) | 12 (305) | 4'-6" (1.375 m) | 19¾ (502) | 6'-1¾" (1.874 m) | 5'-0" (1.524 m) | 3½ (89) | 15 (381) | 1:2.5 |
| 33 (825) | 3200 (1450) | 3¾ (95) | 13½ (343) | 4'-10½" (1.486 m) | 39¼ (997) | 8'-1¾" (2.483 m) | 5'-6" (1.676 m) | 3¾ (95) | 17½ (445) | 1:2.5 |
| 36 (900) | 4100 (1860) | 4 (102) | 15 (381) | 5'-3" (1.6 m) | 34¾ (883) | 8'-1¾" (2.483 m) | 6'-0" (1.829 m) | 4 (102) | 20 (508) | 1:2.5 |
| 42 (1050) | 5380 (2440) | 4½ (114) | 21 (533) | 5'-3" (1.6 m) | 35 (889) | 8'-2" (2.489 m) | 6'-6" (1.981 m) | 4½ (114) | 22 (559) | 1:2.5 |
| 48 (1200) | 6550 (2970) | 5 (127) | 24 (610) | 6'-0" (1.829 m) | 26 (660) | 8'-2" (2.489 m) | 7'-0" (2.134 m) | 5 (127) | 22 (559) | 1:2.5 |
| 54 (1350) | 8240 (3740) | 5½ (140) | 27 (686) | 5'-5" (1.651 m) | 35 (889) | 8'-4" (2.54 m) | 7'-6" (2.286 m) | 5½ (140) | 24 (610) | 1:2.0 |
| 60 (1500) | 8730 (3960) | 6 (152) | 35 (889) | 5'-0" (1.524 m) | 39 (991) | 8'-3" (2.515 m) | 8'-0" (2.438 m) | 5 (127) | * | 1:1.9 |
| 66 (1650) | 10710 (4860) | 6½ (165) | 30 (762) | 6'-0" (1.829 m) | 27 (686) | 8'-3" (2.515 m) | 8'-6" (2.591 m) | 5½ (140) | * | 1:1.7 |
| 72 (1800) | 12520 (5680) | 7 (178) | 36 (914) | 6'-6" (1.981 m) | 21 (533) | 8'-3" (2.514 m) | 9'-0" (2.743 m) | 6 (152 | * | 1:1.8 |
| 78 (1950) | 14770 (6700) | 7½ (191) | 36 (914) | 7'-6" (2.286 m) | 21 (533) | 9'-3" (2.819 m) | 9'-6" (2.896 m) | 6½ (165) | * | 1:1.8 |
| 84 (2100) | 18160 (8240) | 8 (203) | 36 (914) | 7'-6½" (2.299 m) | 21 (533) | 9'-3½" (2.832 m) | 10'-0" (3.048 m) | 6½ (165) | * | 1:1.6 |

* Radius as furnished by manufacturer

## GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.



Illinois Department of Transportation

APPROVED January 1, 2011
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

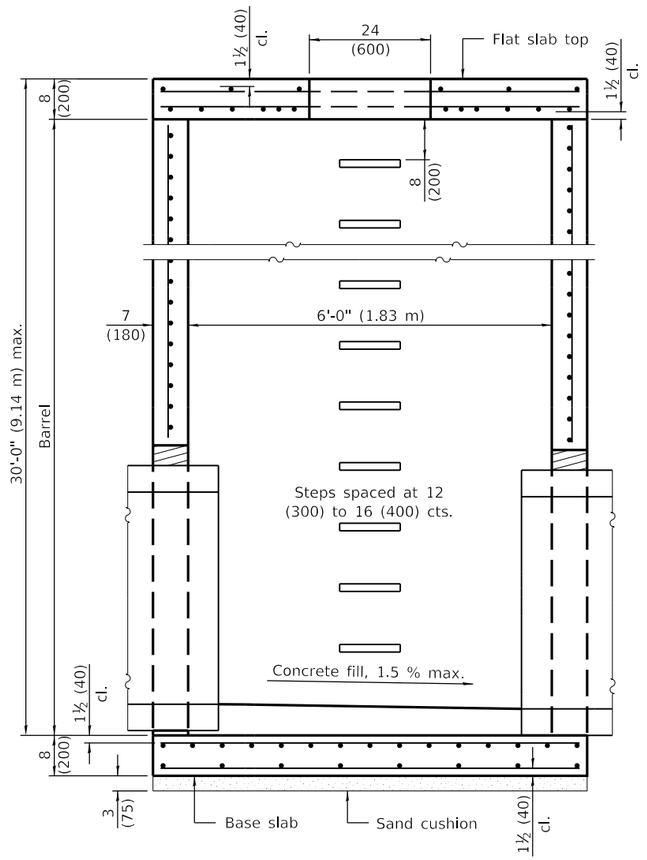
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

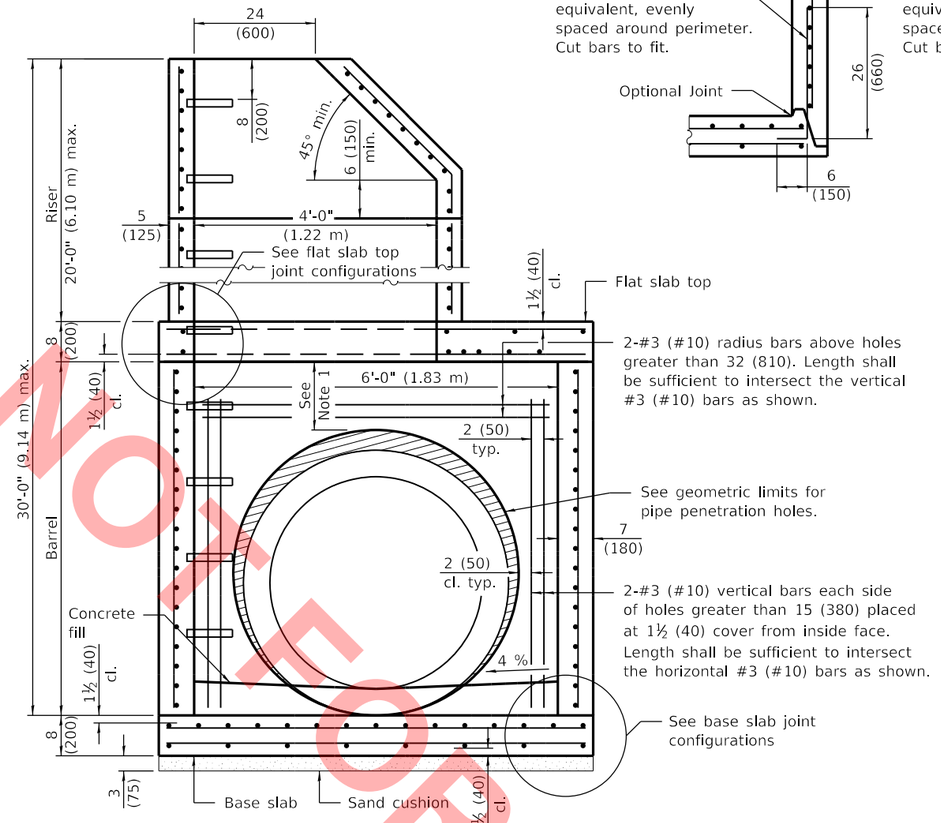
| DATE | REVISIONS |
|---|---|
| 1-1-11 | Clarified ref. to pipe dia. |
| | on Section A-A. Changed |
| | 'inner' to 'outer' cage ref. |
| 1-1-09 | Switched units to |
| | English (metric). |
| | |

# PRECAST REINFORCED CONCRETE FLARED END SECTION

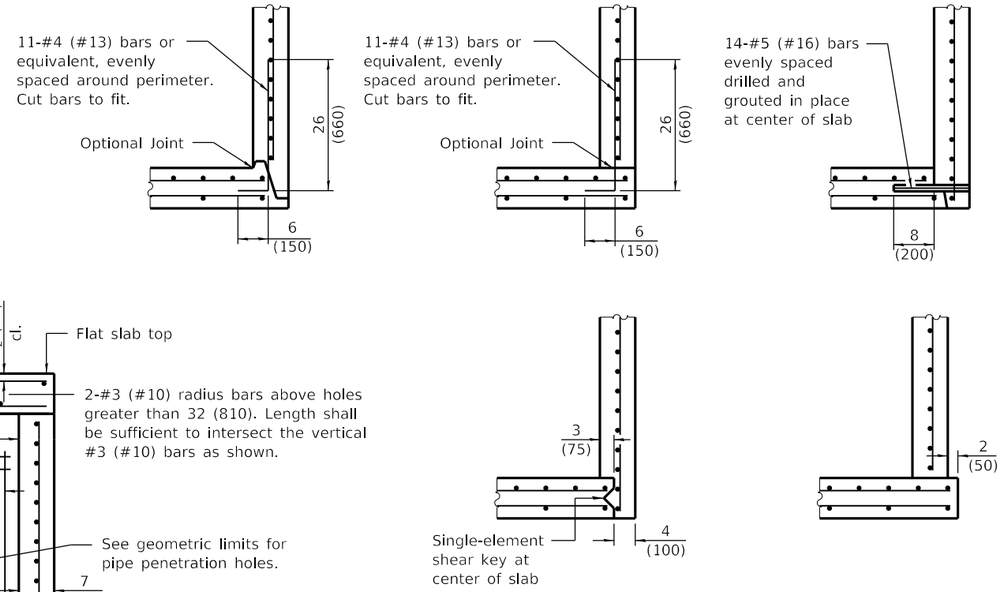
## STANDARD 542301-03



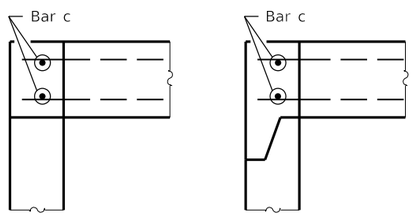

## SECTION PARALLEL TO PIPE
(Without conical top riser)




## SECTION PERPENDICULAR TO PIPE
(With conical top riser)




## BASE SLAB JOINT CONFIGURATIONS




## FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

## GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 32 (810).

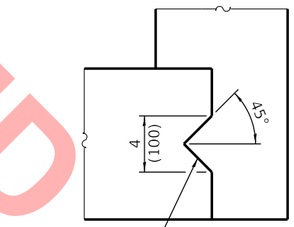
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.




## SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

## GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

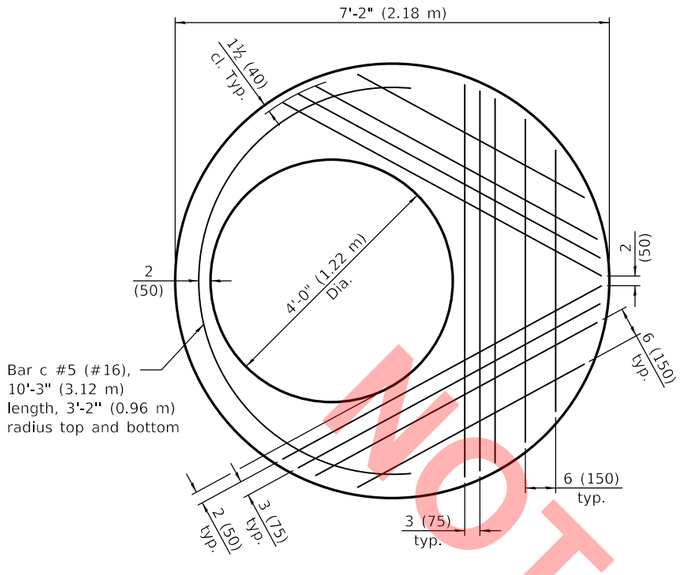
ISSUED 1-1-97

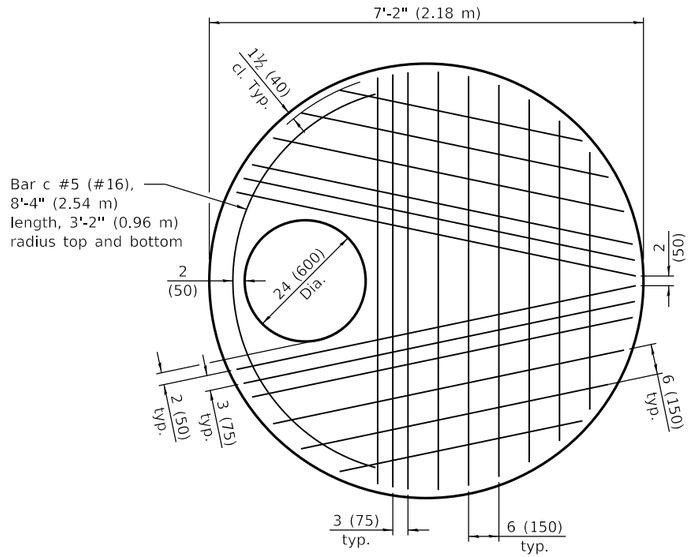
| DATE | REVISIONS |
|---|---|
| 1-1-21 | Revised Note 1, Note 2 and |
| | lifting hole general note. |
| | |
| | |
| 3-1-19 | Moved wall reinforcement from |
| | inside face to middle. |

# PRECAST MANHOLE TYPE A
# 6' (1.83 m) DIAMETER

(Sheet 1 of 3)

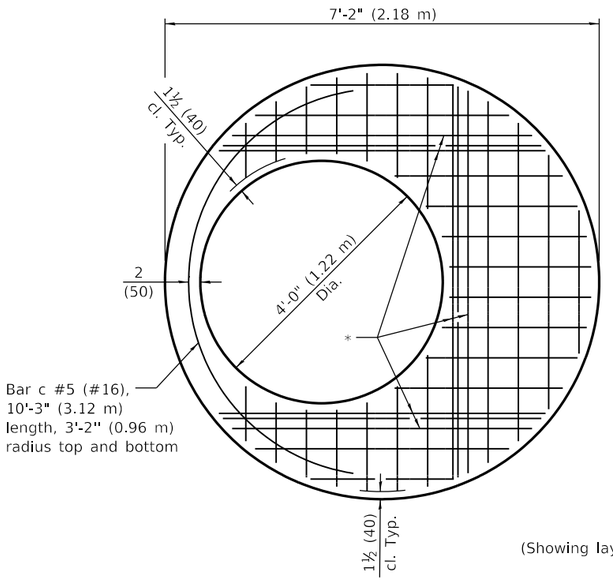
**STANDARD 602406-11**

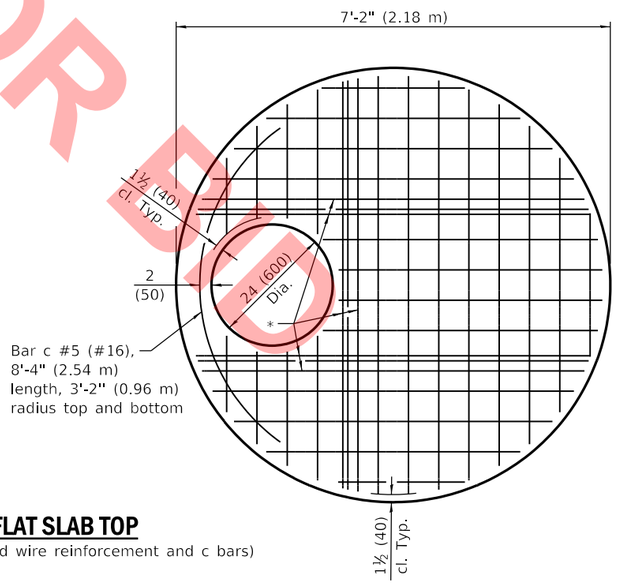



## PLAN - FLAT SLAB TOP

(Showing layout of bottom reinforcement bars and c bars)




## PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)

* #5 (#16) bars for risers ≤ 10 ft. (3.05 m) tall or #6 (#19) bars for risers > 10 ft. (3.05 m) tall bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.



Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

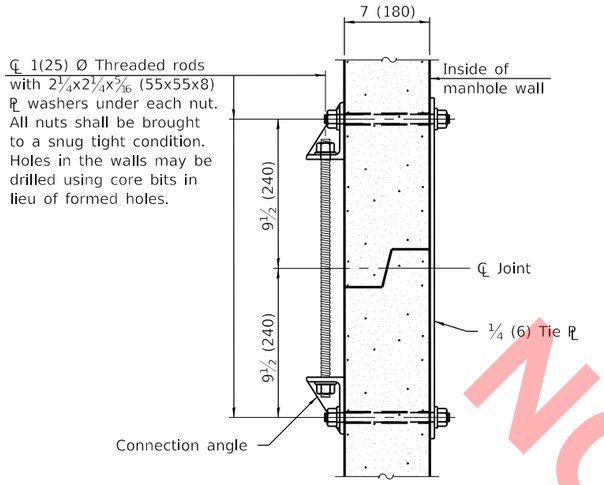
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

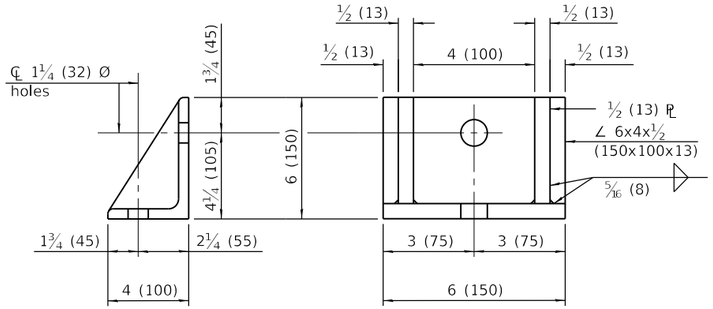
# PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER



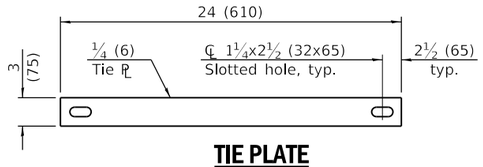
**STANDARD 602406-11**




## JOINT SPLICE




## CONNECTION ANGLE




## TIE PLATE

## FLAT SLAB TOP REINFORCEMENT

| Location | Riser Height (RH) | WWR (each direction) | | Rebar (each direction except as noted) | | |
|---|---|---|---|---|---|---|
| | | $A_s$ (min.) | Spacing (max.) | $A_s$ (min.) | Spacing (max.) | Bar Size |
| Top Mat | All | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | #3 or #4 (#10) (#13) |
| Bottom Mat | RH ≤ 10 ft. (3.05 m) | ** 0.62 sq. in./ft. (1312 sq. mm/m) | 6 (150) | See plan view for rebar orientation and spacing and this table for bar size | | #5 (#16) |
| | RH > 10 ft. (3.05 m) | ** 0.88 sq. in./ft. (1863 sq. mm/m) | 6 (150) | | | #6 (#19) |

** Only one layer of WWR permitted to avoid congestion.

## WALL REINFORCEMENT

| Location | Orientation | WWR or Rebar | |
|---|---|---|---|
| | | $A_s$ (min.) | Spacing (max.) |
| 4 ft. (1.22 m) Ø Riser | Circumferential | 0.12 sq. in./ft. (254 sq. mm/m) | 6 (150) |
| | Vertical | 0.045 sq. in./ft. (95 sq. mm/m) | 8 (200) |
| 6 ft. (1.83 m) Ø Barrel | Circumferential | 0.18 sq. in./ft. (381 sq. mm/m) | 6 (150) |
| | Vertical | 0.045 sq. in./ft. (95 sq. mm/m) | 8 (200) |

## BASE SLAB REINFORCEMENT

| Location | Riser Height (RH)/ Total Height (TH) | WWR or Rebar (each direction) | |
|---|---|---|---|
| | | $A_s$ (min.) | Spacing (max.) |
| Top Mat | RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m) | 0.28 sq. in./ft. (593 sq. mm/m) | 6 (150) |
| | RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m) | 0.40 sq. in./ft. (847 sq. mm/m) | 6 (150) |
| Bottom Mat | All | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) |



Illinois Department of Transportation

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ENGINEER OF POLICY AND PROCEDURES

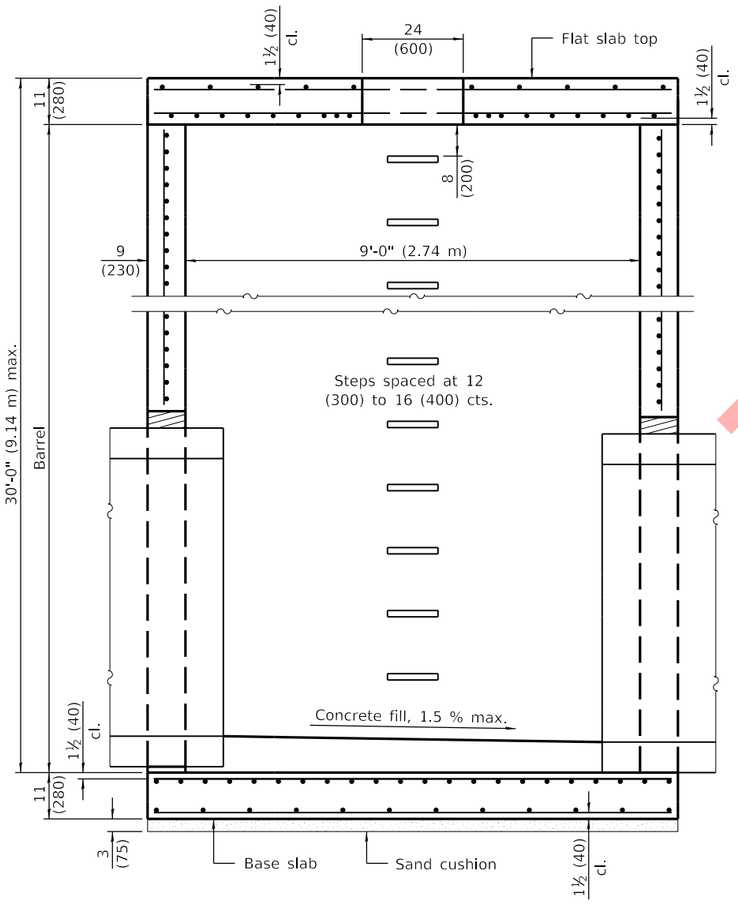
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

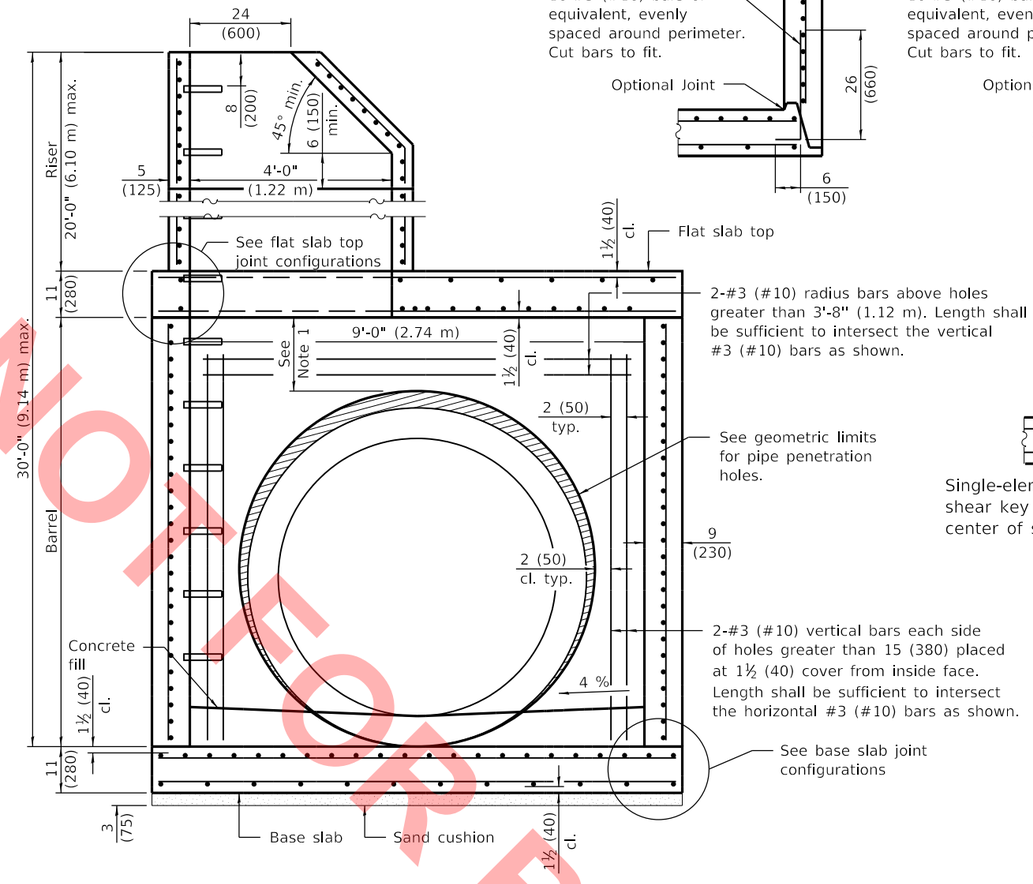
# PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER



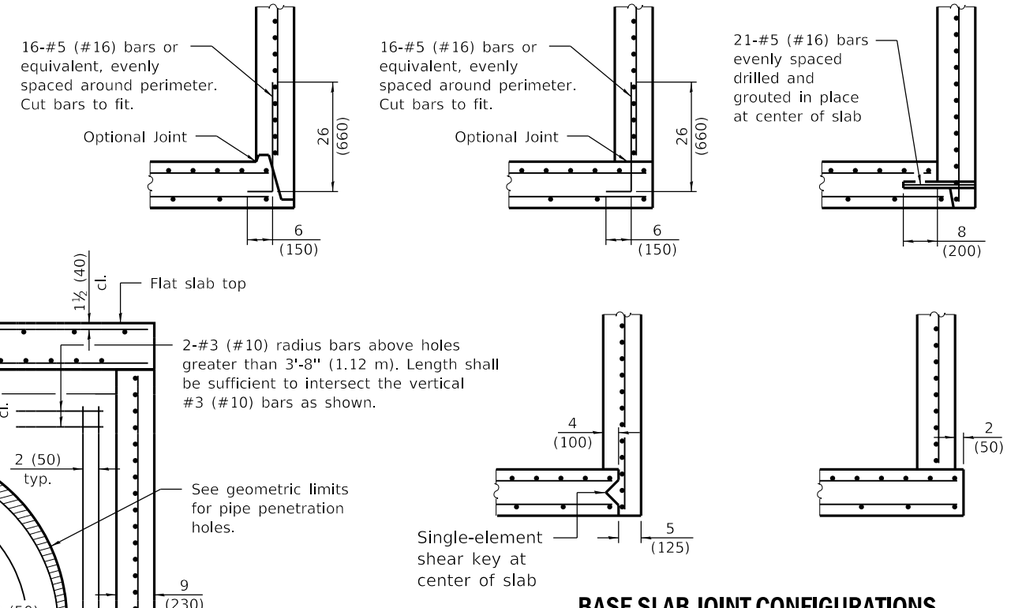
STANDARD 602406-11



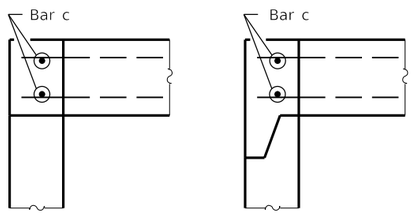

## SECTION PARALLEL TO PIPE
(Without conical top riser)




## SECTION PERPENDICULAR TO PIPE
(With conical top riser)




## BASE SLAB JOINT CONFIGURATIONS




## FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

## GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 12 (300) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 3'-8" (1.12 m).

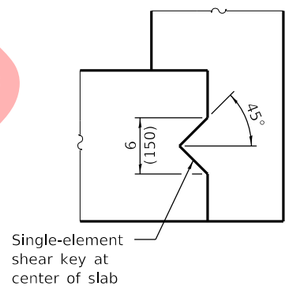
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.




## SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

## GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

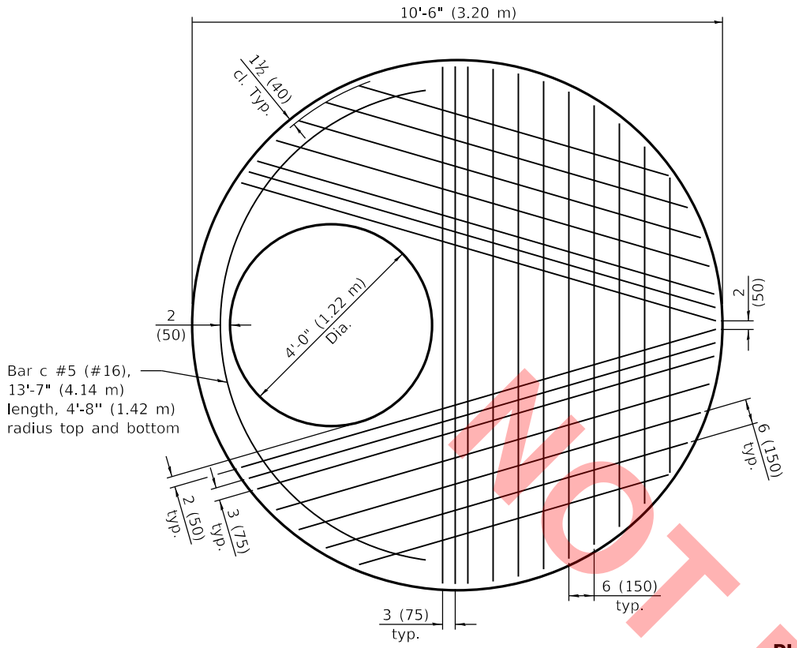
ISSUED 4-1-06

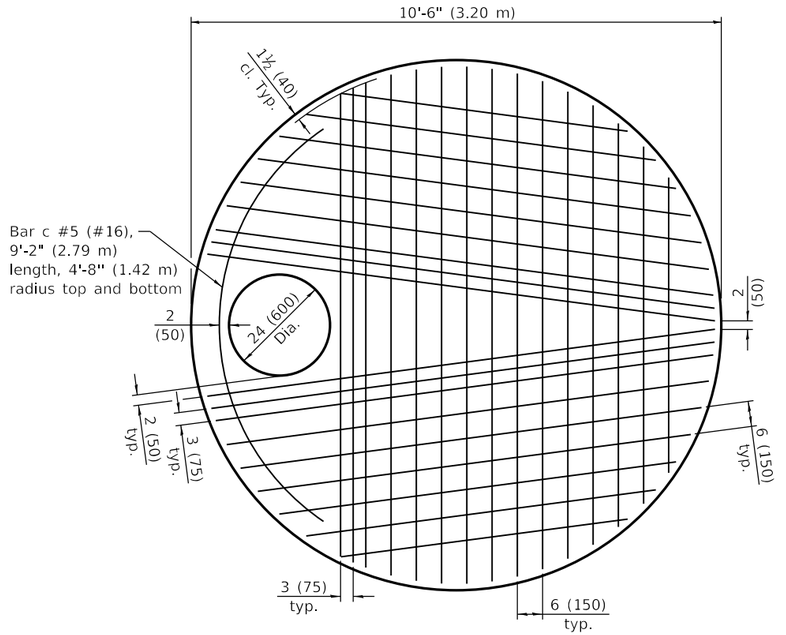
| DATE | REVISIONS |
|---|---|
| 1-1-21 | Revised Note 1 and lifting hole |
| | general note. |
| | |
| 3-1-19 | Moved wall reinforcement from |
| | inside face to middle. |
| | |

# PRECAST MANHOLE TYPE A 9' (2.74 m) DIAMETER

(Sheet 1 of 3)

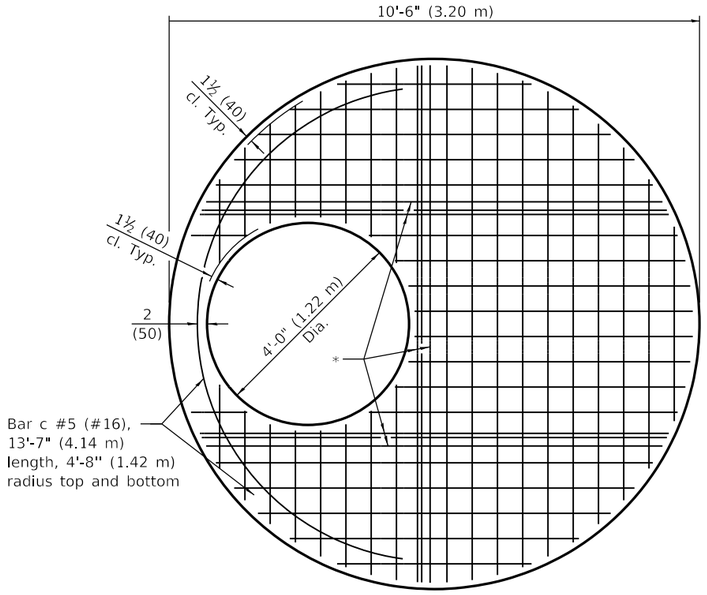
**STANDARD 602421-09**

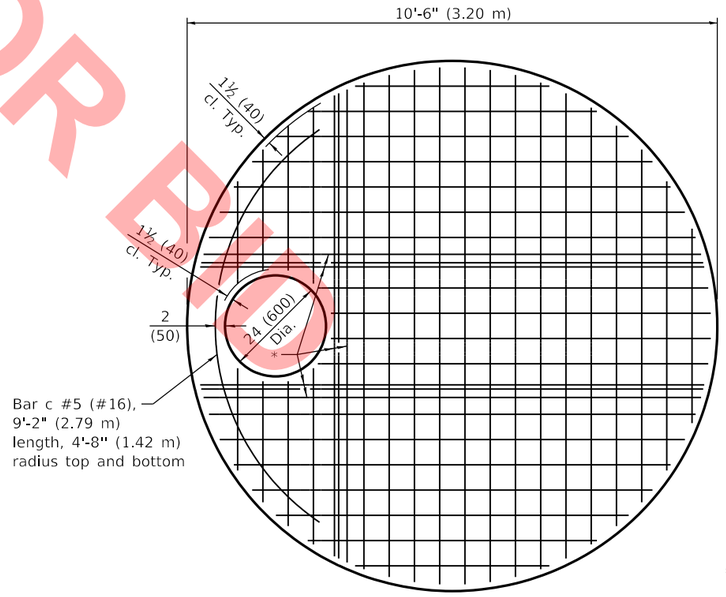



**PLAN - FLAT SLAB TOP**

(Showing layout of bottom reinforcement bars and c bars)




**PLAN - FLAT SLAB TOP**

(Showing layout of welded wire reinforcement and c bars)
WWR not permitted for riser heights > 10' (3.05 m).

* #6 (#19) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

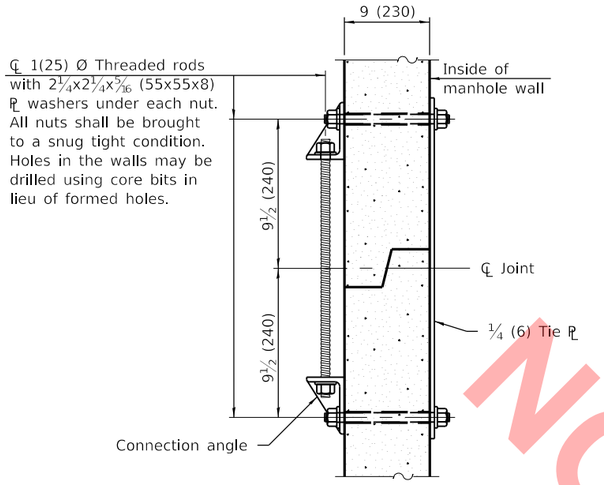
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 4-1-06

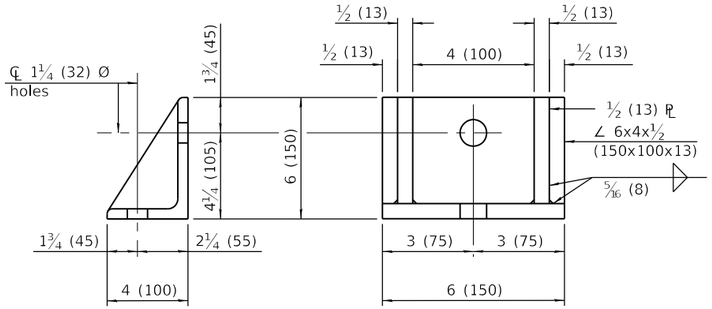
# PRECAST MANHOLE TYPE A 9' (2.74 m) DIAMETER

(Sheet 2 of 3)

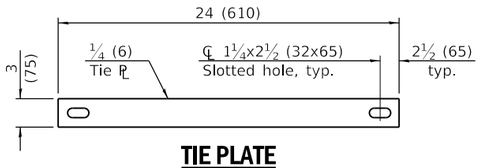
**STANDARD 602421-09**




## JOINT SPLICE




## CONNECTION ANGLE




## TIE PLATE

## FLAT SLAB TOP REINFORCEMENT

| Location | Riser Height (RH) | WWR (each direction) | | Rebar (each direction except as noted) | | |
|---|---|---|---|---|---|---|
| | | $A_s$ (min.) | Spacing (max.) | $A_s$ (min.) | Spacing (max.) | Bar Size |
| Top Mat | All | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | #3 or #4 (#10) (#13) |
| Bottom Mat | RH ≤ 10 ft. (3.05 m) | ** 0.88 sq. in./ft. (1863 sq. mm/m) | 6 (150) | See plan view for rebar orientation and spacing and this table for bar size | | #6 (#19) |
| | RH > 10 ft. (3.05 m) | WWR not permitted | | | | #8 (#25) |

** Only one layer of WWR permitted to avoid congestion.

## WALL REINFORCEMENT

| Location | Orientation | WWR or Rebar | |
|---|---|---|---|
| | | $A_s$ (min.) | Spacing (max.) |
| 4 ft. (1.22 m) Ø Riser | Circumferential | 0.12 sq. in./ft. (254 sq. mm/m) | 6 (150) |
| | Vertical | 0.045 sq. in./ft. (95 sq. mm/m) | 8 (200) |
| 9 ft. (2.74 m) Ø Barrel | Circumferential | 0.27 sq. in./ft. (572 sq. mm/m) | 6 (150) |
| | Vertical | 0.045 sq. in./ft. (95 sq. mm/m) | 8 (200) |

## BASE SLAB REINFORCEMENT

| Location | Riser Height (RH)/ Total Height (TH) | WWR or Rebar (each direction) | |
|---|---|---|---|
| | | $A_s$ (min.) | Spacing (max.) |
| Top Mat | RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m) | 0.44 sq. in./ft. (931 sq. mm/m) | 6 (150) |
| | RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m) | 0.72 sq. in./ft. (1524 sq. mm/m) | 6 (150) |
| Bottom Mat | All | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) |



Illinois Department of Transportation

PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES

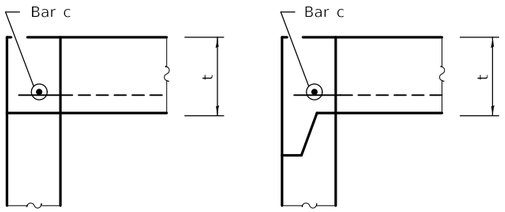
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 4-1-06

# PRECAST MANHOLE TYPE A 9' (2.74 m) DIAMETER

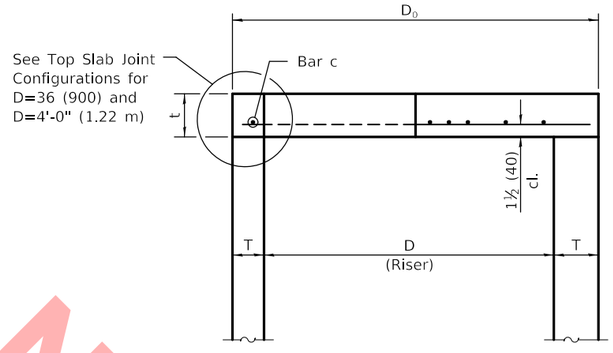


STANDARD 602421-09

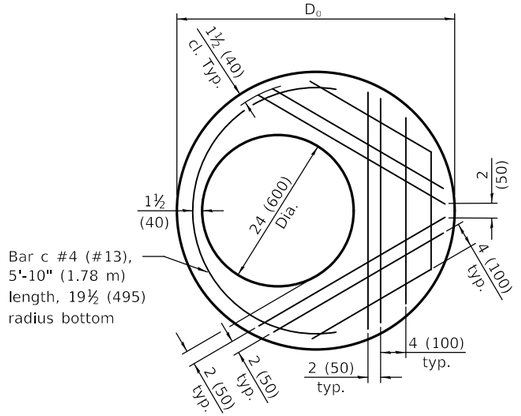



## FLAT SLAB TOP JOINT CONFIGURATIONS FOR D = 36 (900) AND D = 4'-0" (1.22 m)

(Shown at access hole)

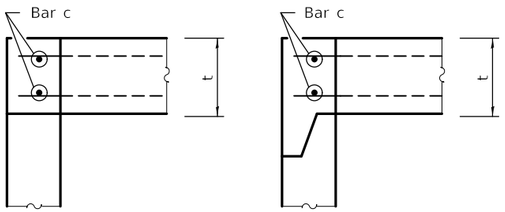



## SECTION THRU FLAT SLAB TOP FOR D = 36 (900) AND D = 4'-0" (1.22 m)



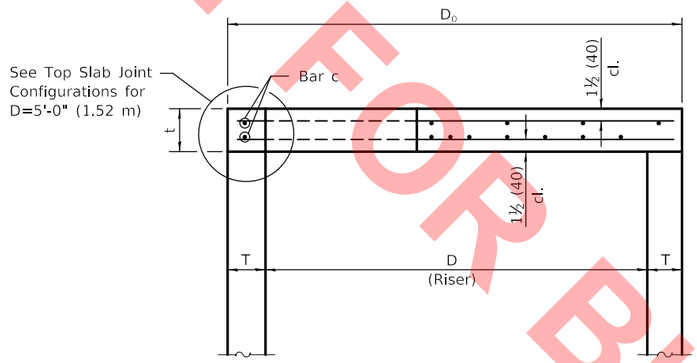

## PLAN - FLAT SLAB TOP FOR D = 36 (900)

(Showing layout of reinforcement bars and c bars)

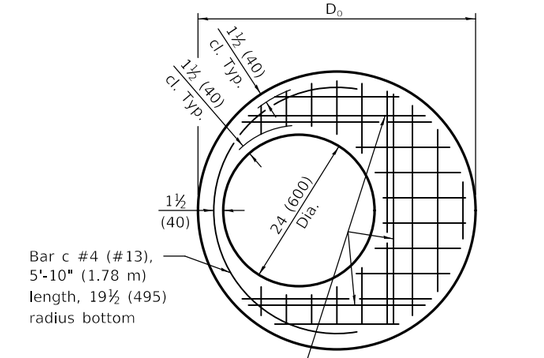



## FLAT SLAB TOP JOINT CONFIGURATIONS D = 5'-0" (1.52 m)

(Shown at access hole)




## SECTION THRU FLAT SLAB TOP FOR D = 5'-0" (1.52 m)




## PLAN - FLAT SLAB TOP FOR D = 36 (900)

(Showing layout of welded wire reinforcement and c bars)

## TABLE

| D | T | $D_0$ (min.) | t |
|---|---|---|---|
| 36 (900) | See applicable Standards | D + 2T | 6 (150) |
| 4'-0" (1.2 m) | | | 6 (150) |
| 5'-0" (1.5 m) | | | 8 (200) |

## GENERAL NOTES

The flat slab top may be used in lieu of the tapered tops shown on Standards 602001, 602016, or 602306 at the option of the Contractor or when field conditions prohibit the use of tapered tops.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

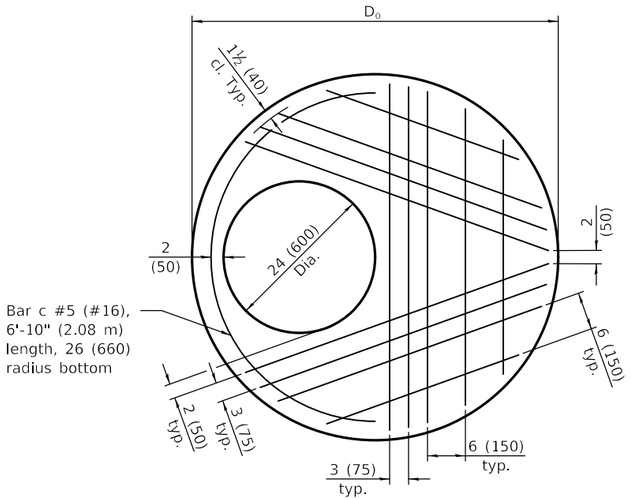
ISSUED 1-1-97

| DATE | REVISIONS |
|---|---|
| 1-1-19 | Expanded / refined reinforcement |
| | options. |
| | |
| 1-1-18 | Revised for compliance with |
| | LRFD. |
| | |

# PRECAST REINFORCED CONCRETE FLAT SLAB TOP

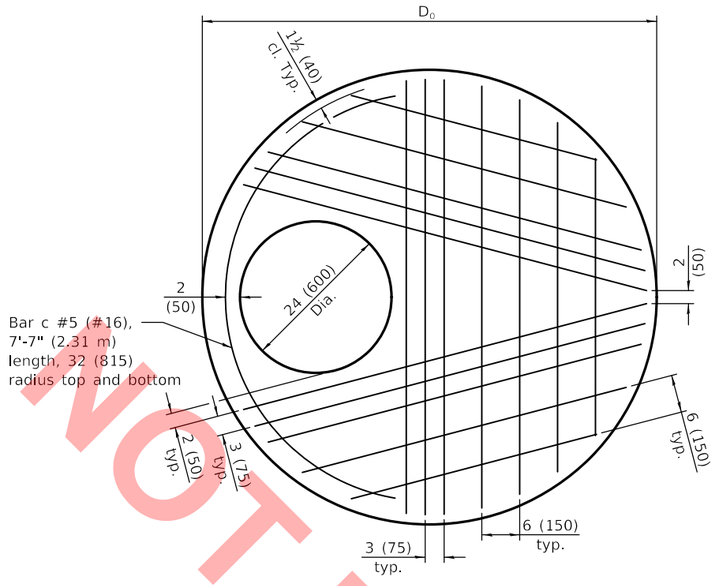
(Sheet 1 of 2)

**STANDARD 602601-06**



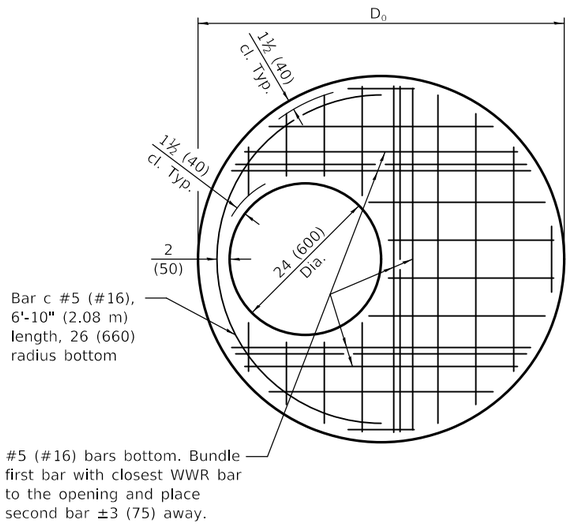

**PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)**

(Showing layout of reinforcement bars and c bars)



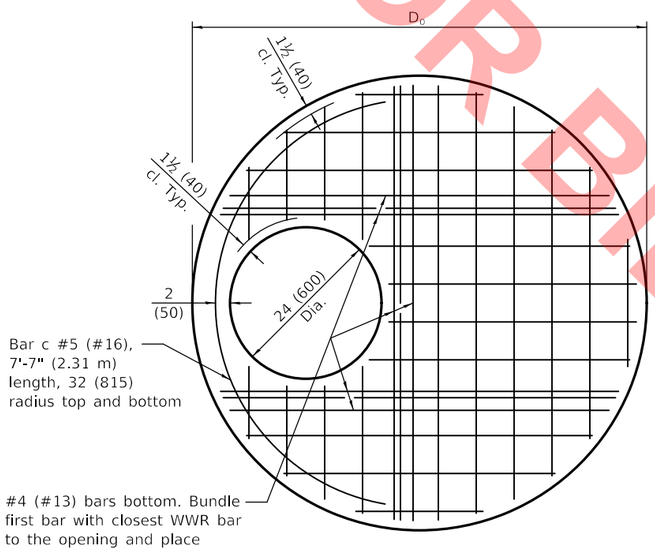

**PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)**

(Showing layout of bottom reinforcement bars and c bars)




**PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)**

(Showing layout of welded wire reinforcement and c bars)




**PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)**

(Showing layout of welded wire reinforcement and c bars)



## FLAT SLAB TOP REINFORCEMENT FOR D = 36 (900)

| Location | WWR (each direction) | | Rebar | | |
|---|---|---|---|---|---|
| | $A_s$ (min.) | Spacing (max.) | $A_s$ (min.) | Spacing (max.) | Bar Size |
| Bottom Mat | * 0.60 sq. in./ft. (1270 sq. mm/m) | 6 (150) | See plan view for rebar orientation and spacing and this table for bar size | | #4 (#13) |

## FLAT SLAB TOP REINFORCEMENT FOR D = 4'-0" (1.22 m)

| Location | WWR (each direction) | | Rebar | | |
|---|---|---|---|---|---|
| | $A_s$ (min.) | Spacing (max.) | $A_s$ (min.) | Spacing (max.) | Bar Size |
| Bottom Mat | * 0.62 sq. in./ft. (1312 sq. mm/m) | 6 (150) | See plan view for rebar orientation and spacing and this table for bar size | | #5 (#16) |

## FLAT SLAB TOP REINFORCEMENT FOR D = 5'-0" (1.52 m)

| Location | WWR (each direction) | | Rebar (each direction except as noted) | | |
|---|---|---|---|---|---|
| | $A_s$ (min.) | Spacing (max.) | $A_s$ (min.) | Spacing (max.) | Bar Size |
| Top Mat | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | #3 or #4 (#10) (#13) |
| Bottom Mat | * 0.40 sq. in./ft. (847 sq. mm/m) | 6 (150) | See plan view for rebar orientation and spacing and this table for bar size | | #4 (#13) |

* Only one layer of WWR permitted to avoid congestion.

Illinois Department of Transportation

PASSED January 1, 2019

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

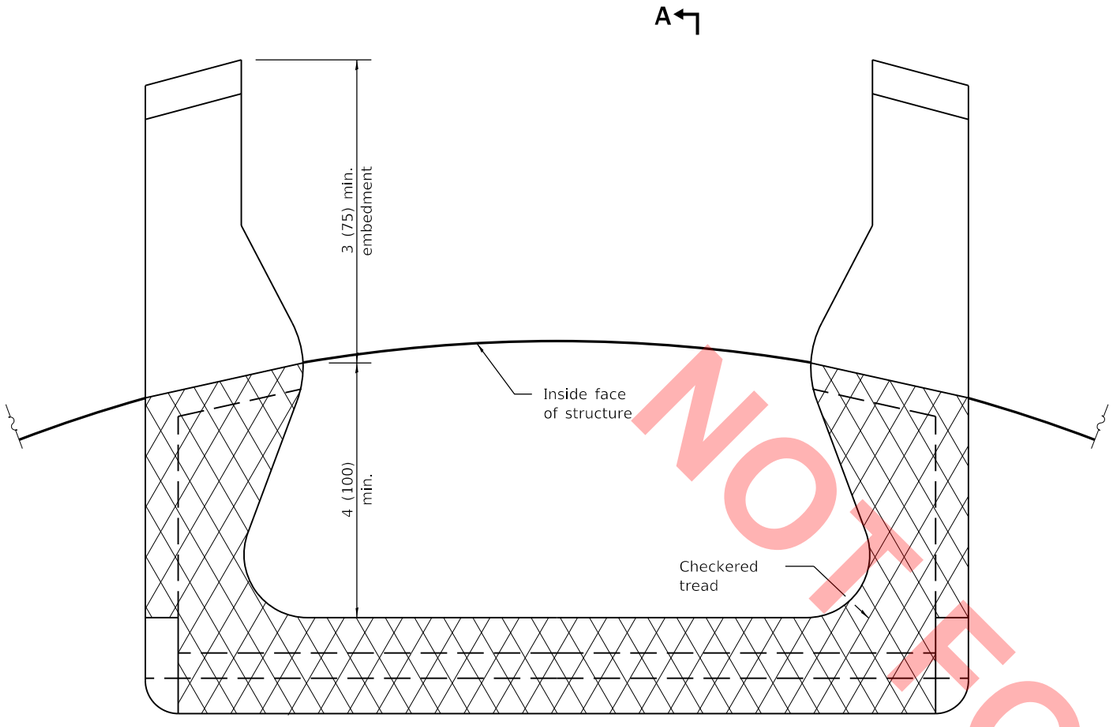
ISSUED 1-1-97

# PRECAST REINFORCED CONCRETE FLAT SLAB TOP

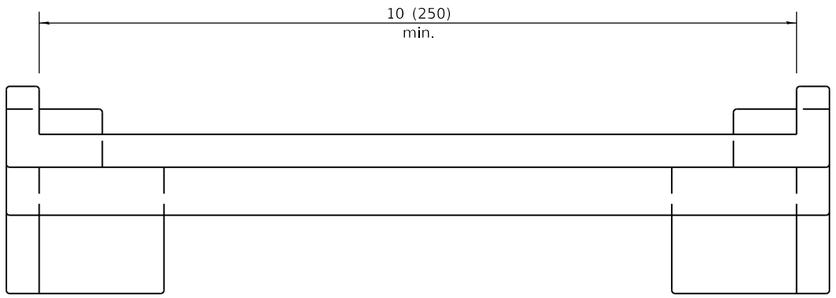
(Sheet 2 of 2)

STANDARD 602601-06

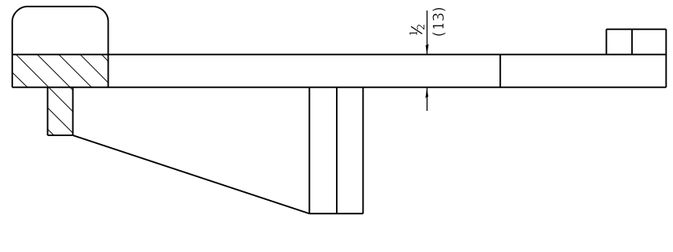
# CAST IRON STEPS




**PLAN VIEW**




**ELEVATION VIEW**




**SECTION A-A**



Illinois Department of Transportation

PASSED January 1, 2009
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

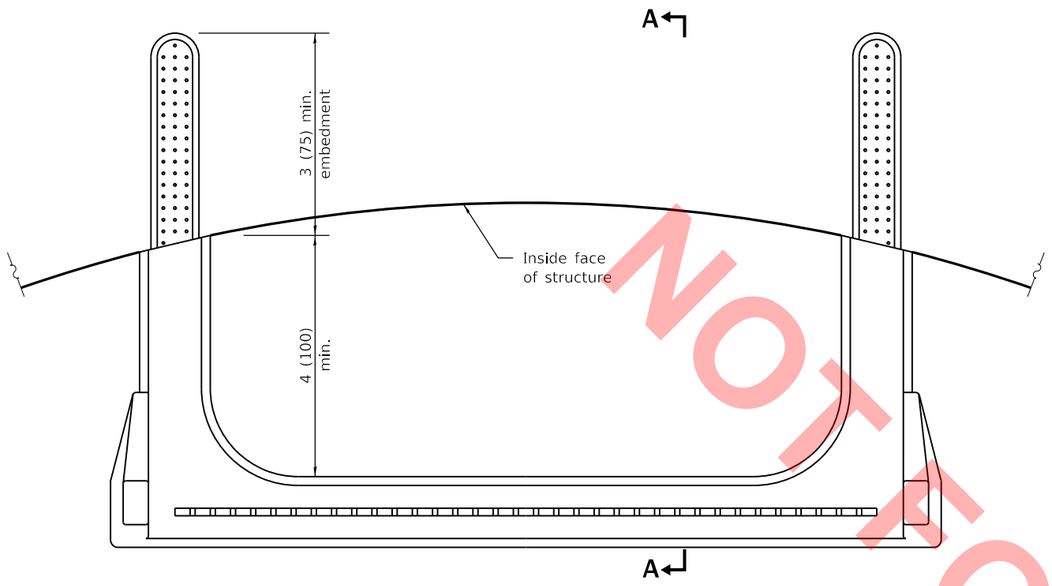
All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|---|---|
| 1-1-09 | Switched units to |
| | English (metric). |
| | |
| 4-1-06 | Revised title, drawings, |
| | and added plastic |
| | steps on sheet 2. |

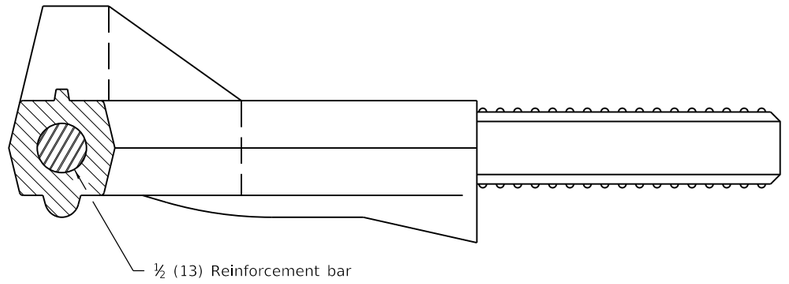
# MANHOLE STEPS

(Sheet 1 of 2)

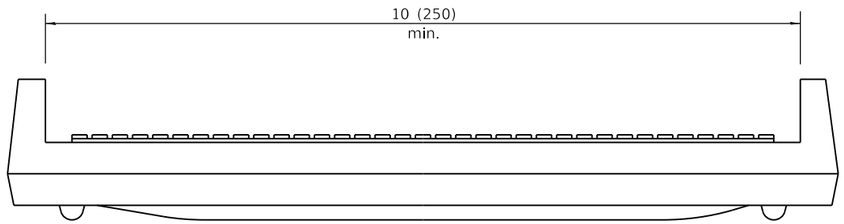
**STANDARD 602701-02**




PLAN VIEW




SECTION A-A




ELEVATION VIEW



Illinois Department of Transportation

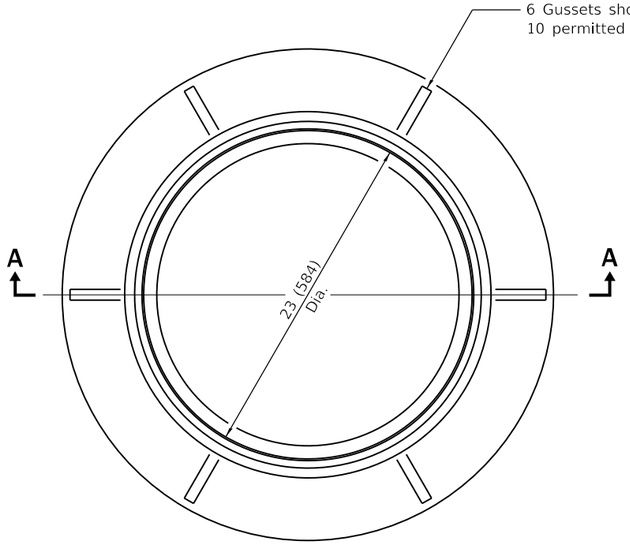
PASSED January 1, 2009
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

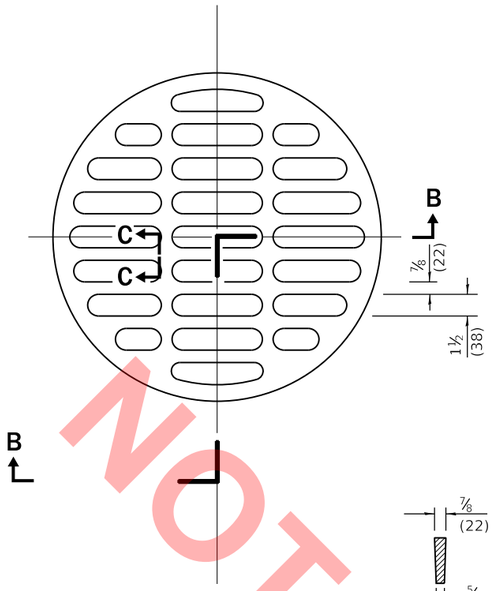
# MANHOLE STEPS

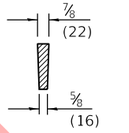
(Sheet 2 of 2)

STANDARD 602701-02

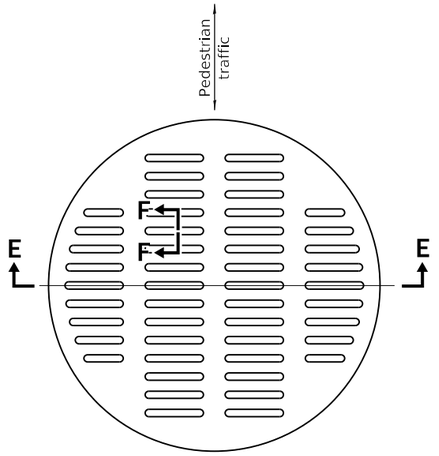


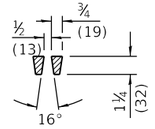

**CAST FRAME**



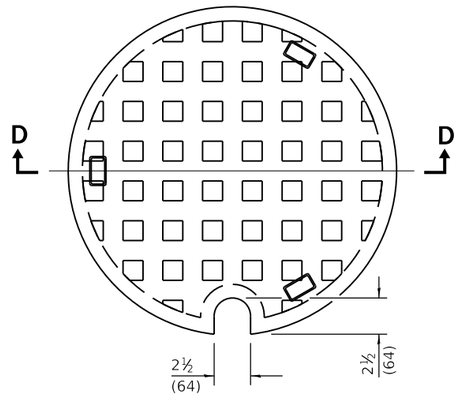



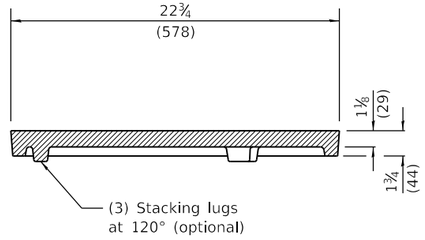

**SECTION C-C**




**SECTION F-F**

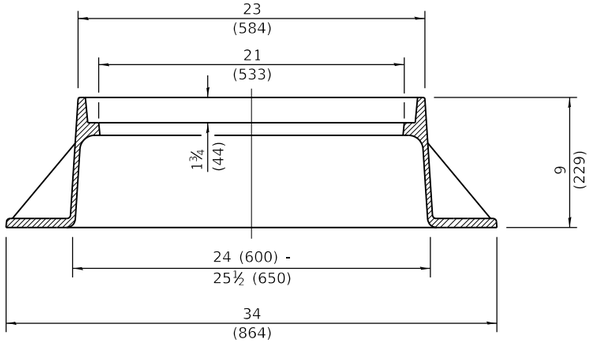



**SECTION D-D**

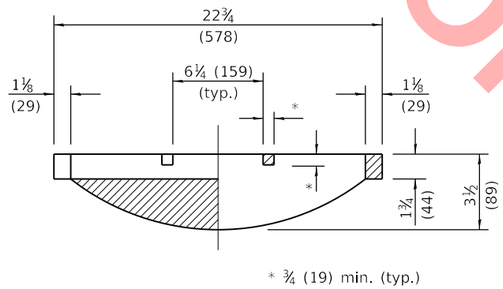
**CAST CLOSED LID**

Gray Iron Lid




**SECTION A-A**

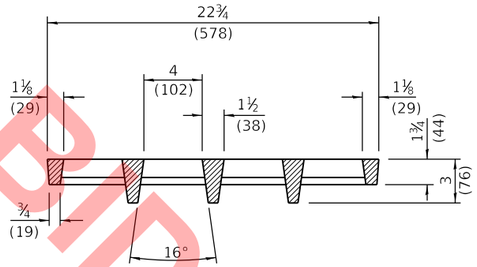
Gray Iron




* ¾ (19) min. (typ.)

**SECTION B-B**

**CAST OPEN LID**




**SECTION E-E**

**ADA COMPLIANT CAST OPEN LID**



All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2020
ENGINEER OF POLICY AND PROCEDURES

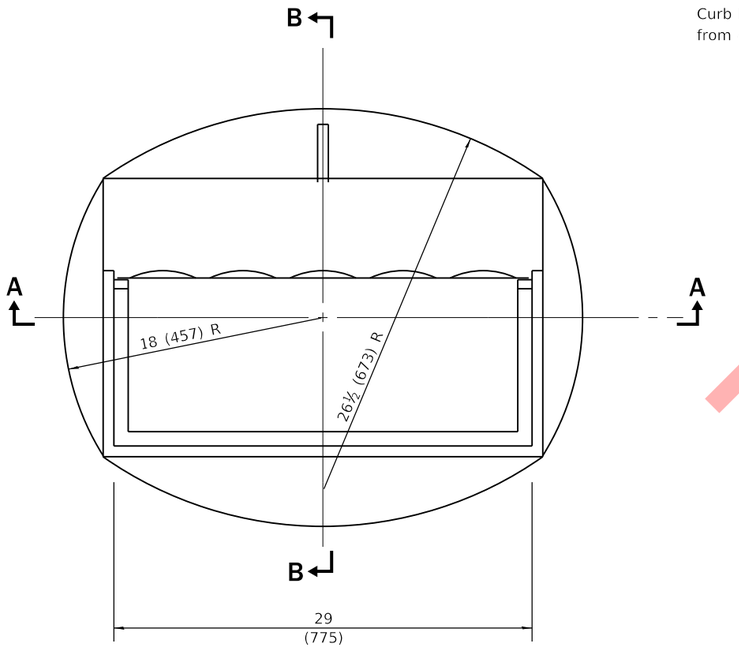
APPROVED January 1, 2020
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

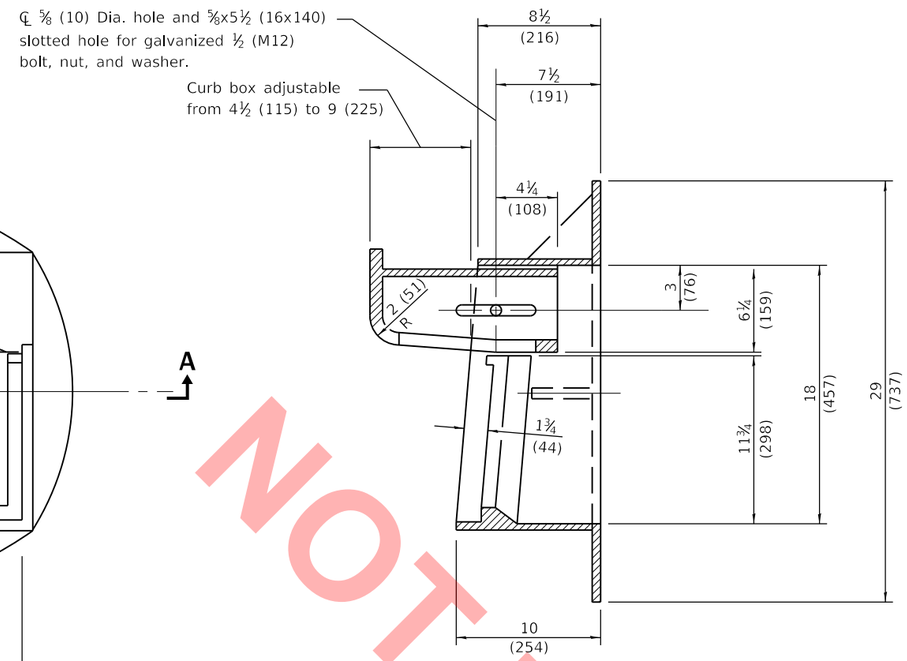
| DATE | REVISIONS |
|---|---|
| 1-1-20 | Revised dimension in Section B-B |
| | of cast open lid. |
| 1-1-15 | Revised dimensioning of |
| | frame. Added ADA compliant |
| | open lid. |
| 1-1-09 | Switched units to English (metric). |

# FRAME AND LIDS TYPE 1

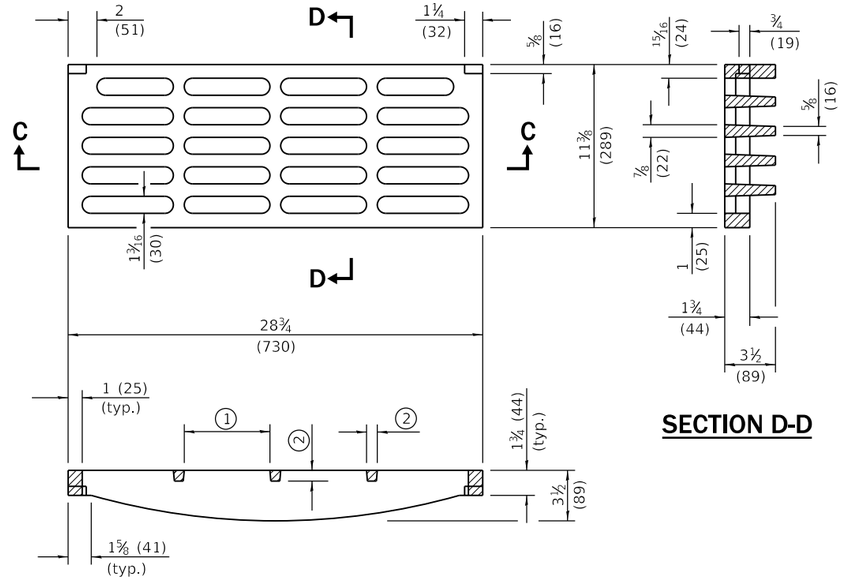
## STANDARD 604001-05




## CAST FRAME




## SECTION B-B



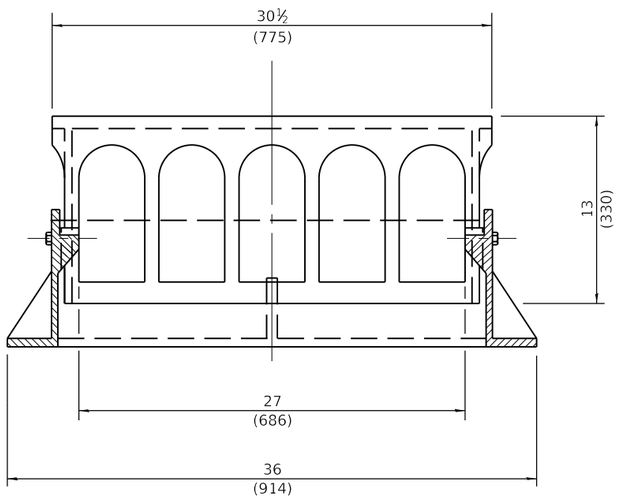

## SECTION D-D

## SECTION C-C

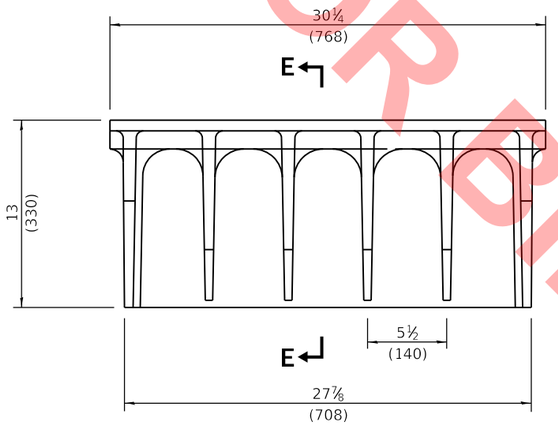
① = 6¼ (159) max. (typ.)

② = ¾ (19) min. (typ.)

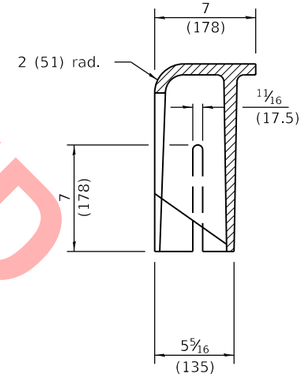
## CAST GRATE




## SECTION A-A




## ALTERNATE CURB BOX




## SECTION E-E



All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

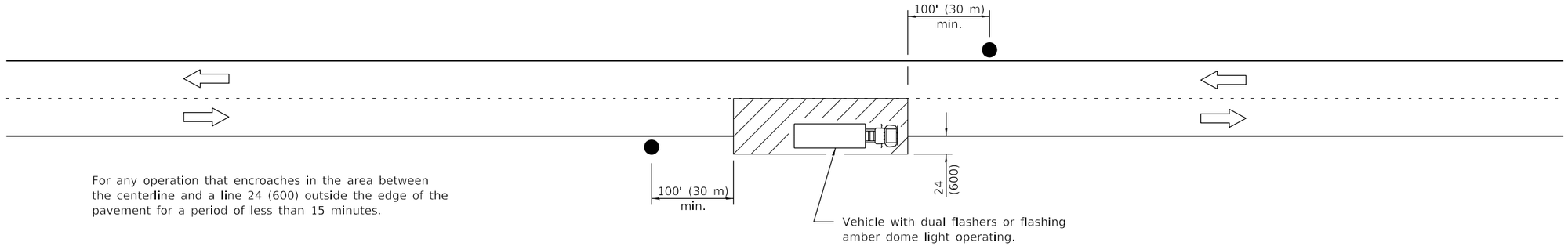
PASSED January 1, 2015
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

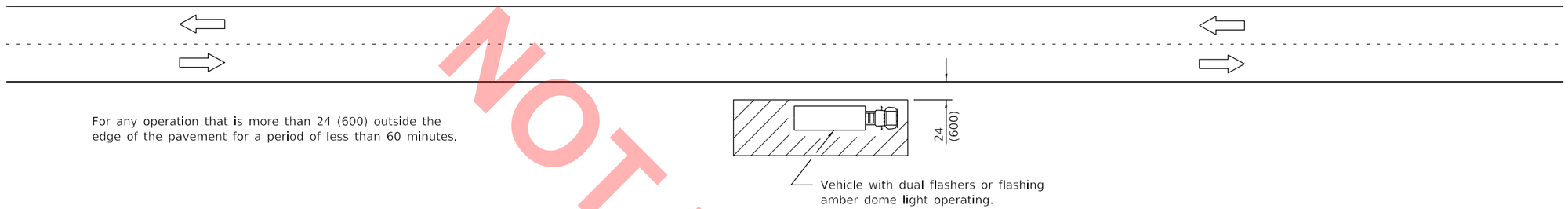
| DATE | REVISIONS |
|---|---|
| 1-1-15 | Revised dimensions of frame |
| | and alternate curb box. |
| | |
| 4-1-09 | Switched units to |
| | English (metric). |
| | |

# FRAME AND GRATE TYPE 11

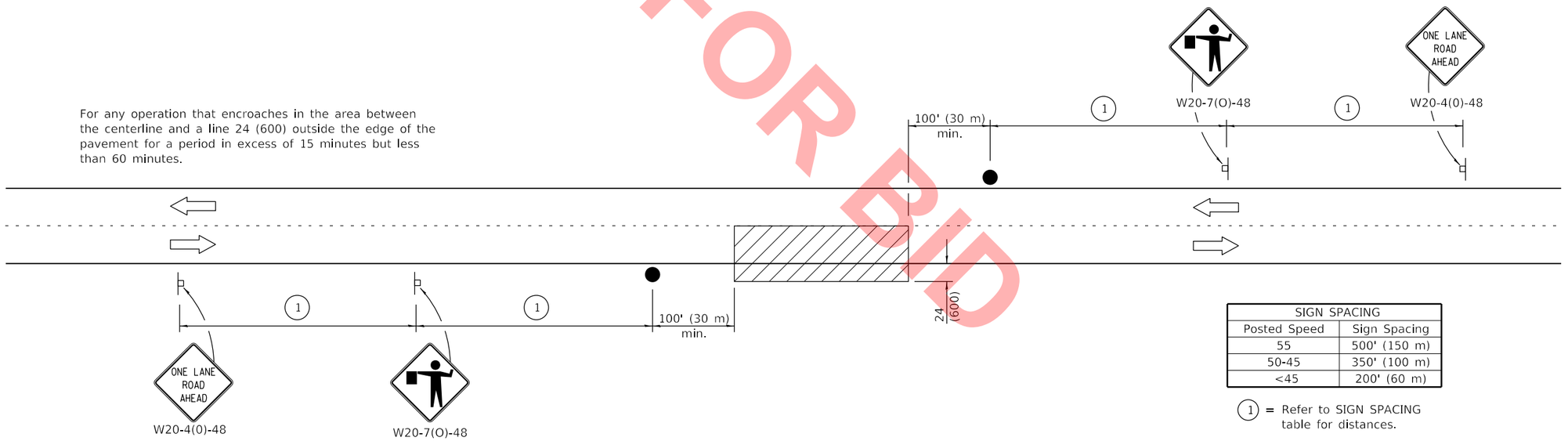
## STANDARD 604051-04




For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period of less than 15 minutes.




For any operation that is more than 24 (600) outside the edge of the pavement for a period of less than 60 minutes.




For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period in excess of 15 minutes but less than 60 minutes.

| SIGN SPACING | |
|---|---|
| Posted Speed | Sign Spacing |
| 55 | 500' (150 m) |
| 50-45 | 350' (100 m) |
| <45 | 200' (60 m) |

(1) = Refer to SIGN SPACING table for distances.

## 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

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

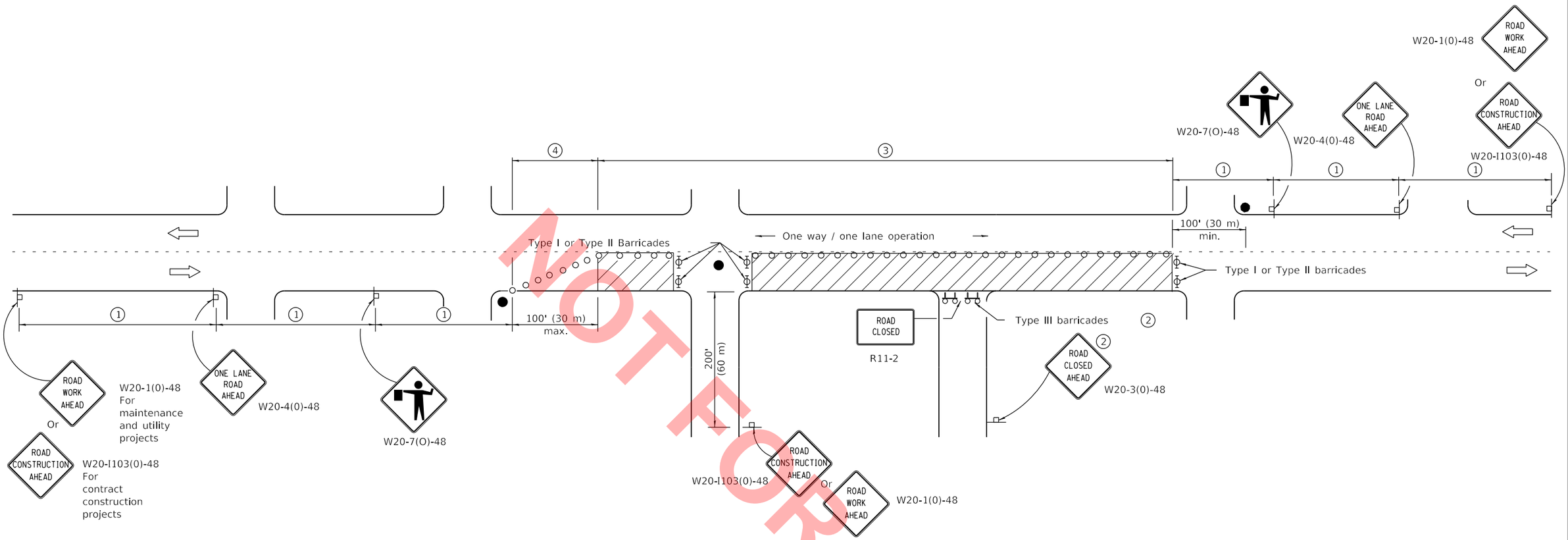
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

| 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

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

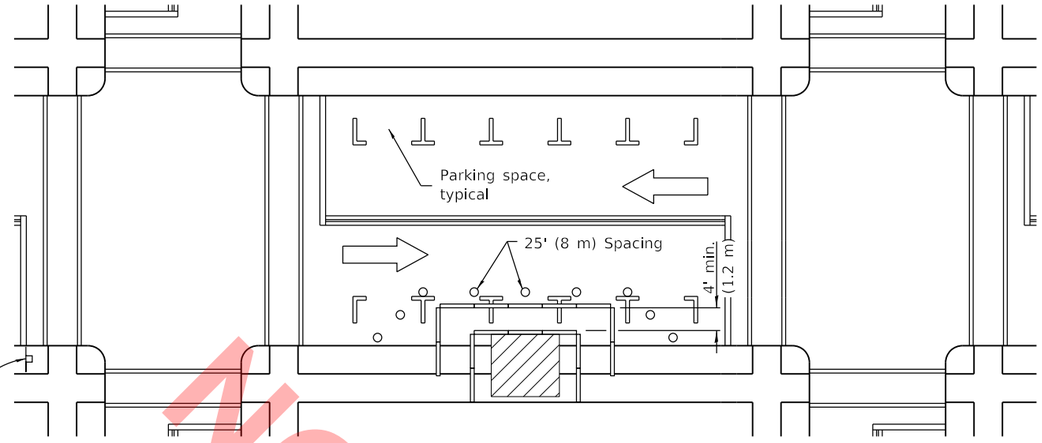
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

| 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




① ROAD CONSTRUCTION AHEAD — W20-I103(0)-48 for contract construction projects

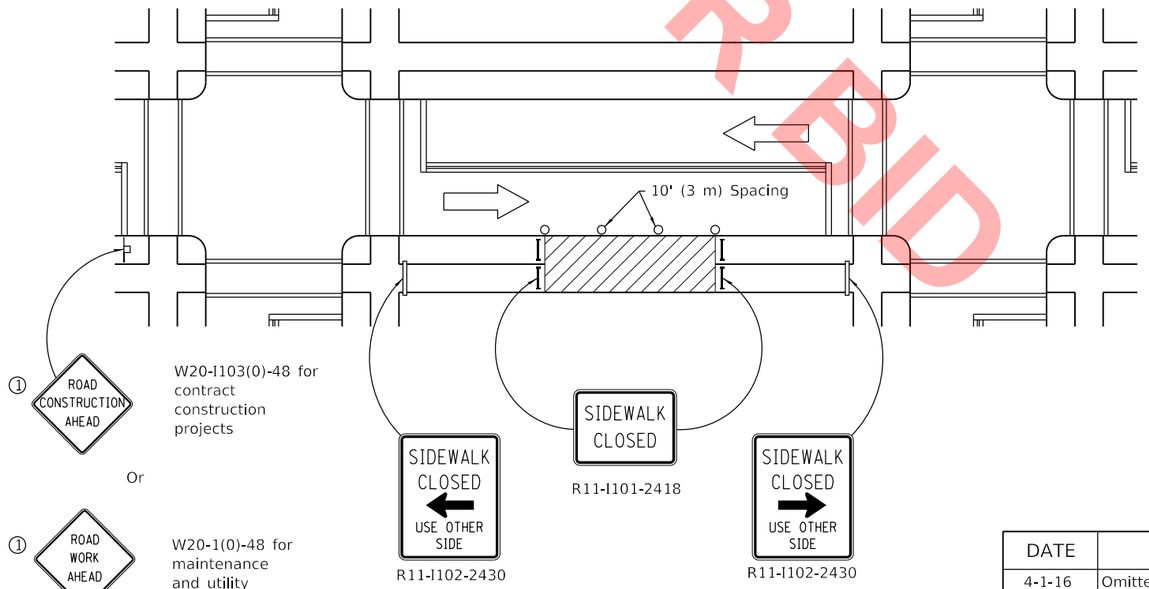
Or

① ROAD WORK AHEAD — W20-1(0)-48 for maintenance and utility projects

## SIDEWALK DIVERSION

## SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade




① ROAD CONSTRUCTION AHEAD — W20-I103(0)-48 for contract construction projects

Or

① ROAD WORK AHEAD — W20-1(0)-48 for maintenance and utility projects

## SIDEWALK CLOSURE

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.



Illinois Department of Transportation

PASSED April 1, 2016
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

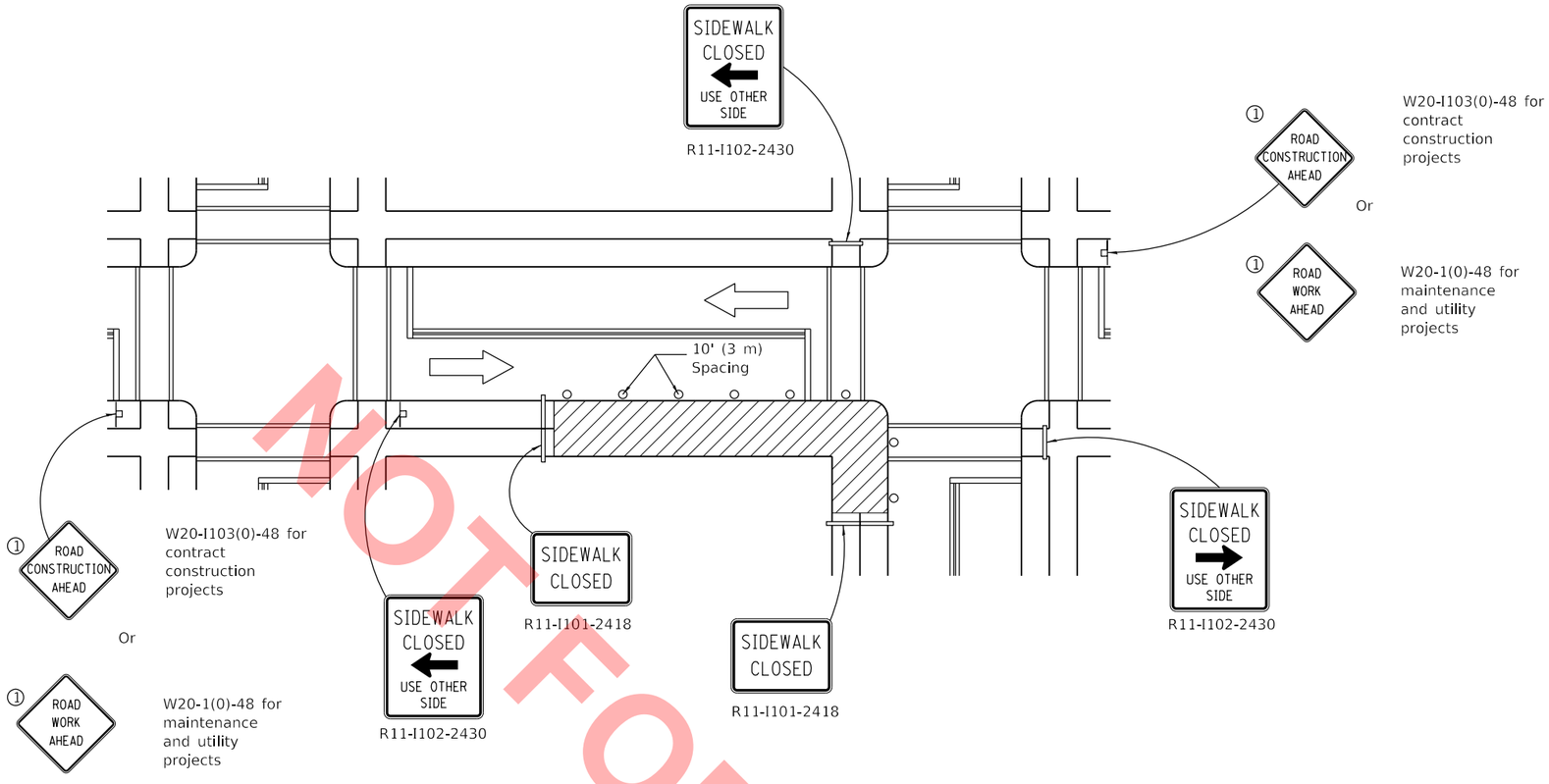
ISSUED 1-1-97

| 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. |

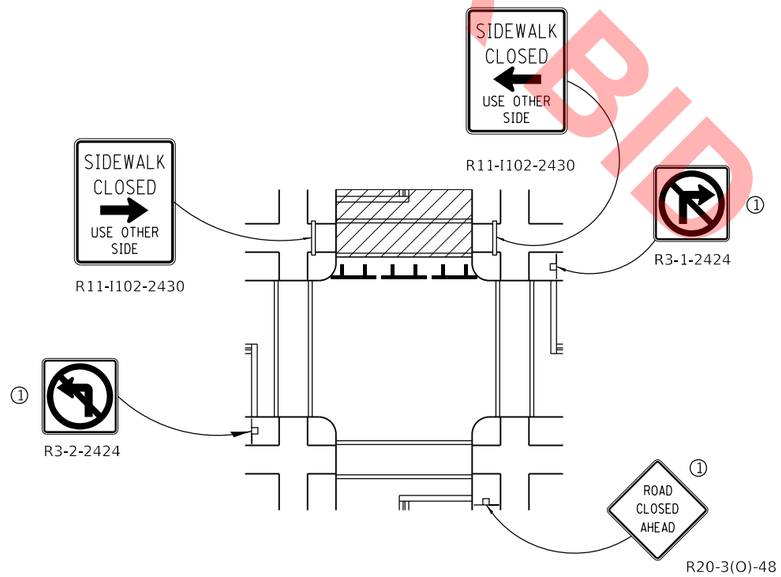
# SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

**STANDARD 701801-06**




**CORNER CLOSURE**




**CROSSWALK CLOSURE**



Illinois Department of Transportation

PASSED April 1, 2016
ENGINEER OF SAFETY ENGINEERING

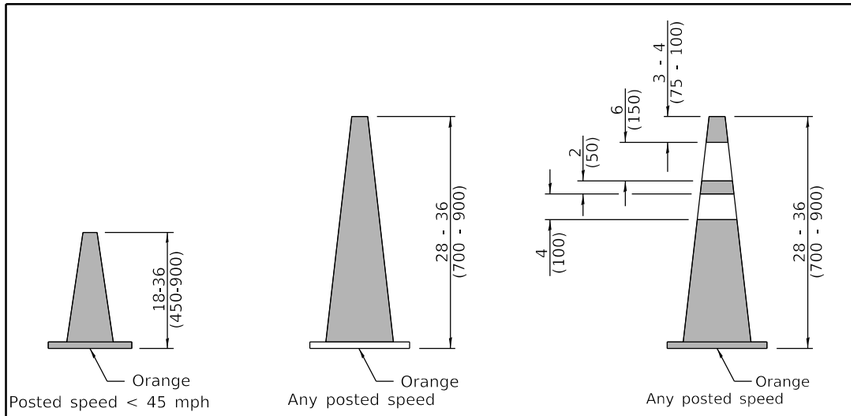
APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

# SIDEWALK, CORNER OR CROSSWALK CLOSURE



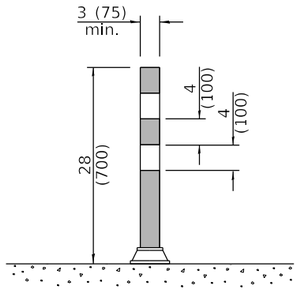
**STANDARD 701801-06**



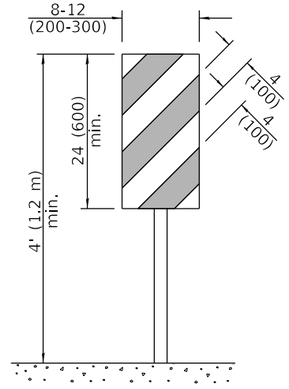

**DAYTIME USE**

**DAY OR NIGHTTIME USE**

## CONES

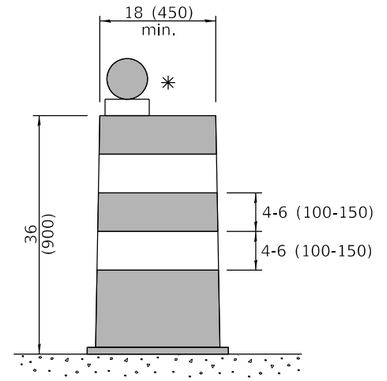



## TUBULAR MARKER

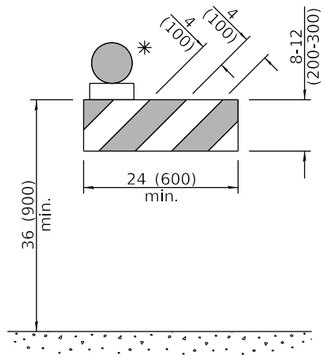



## VERTICAL PANEL

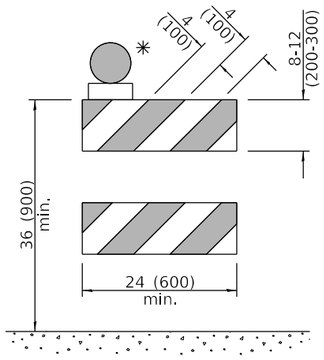
POST MOUNTED



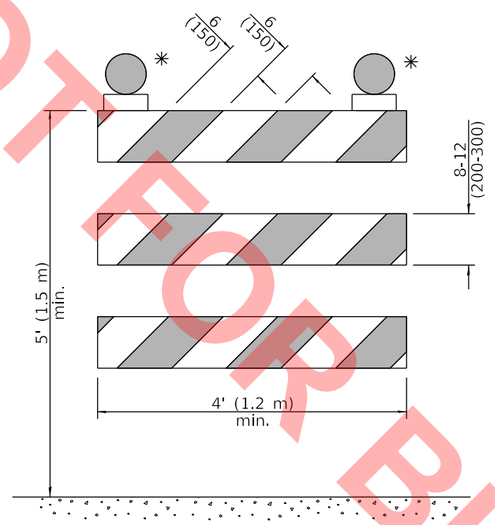

## DRUM



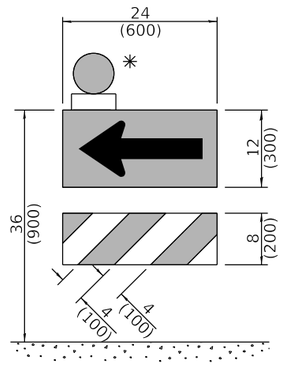

## TYPE I BARRICADE



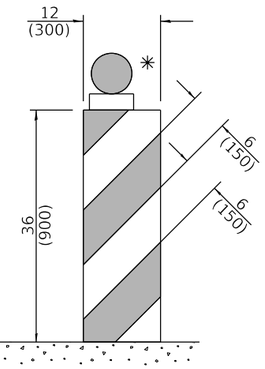

## TYPE II BARRICADE



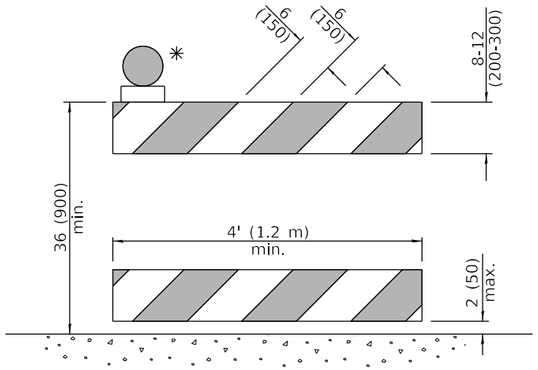

## TYPE III BARRICADE




## 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.

Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

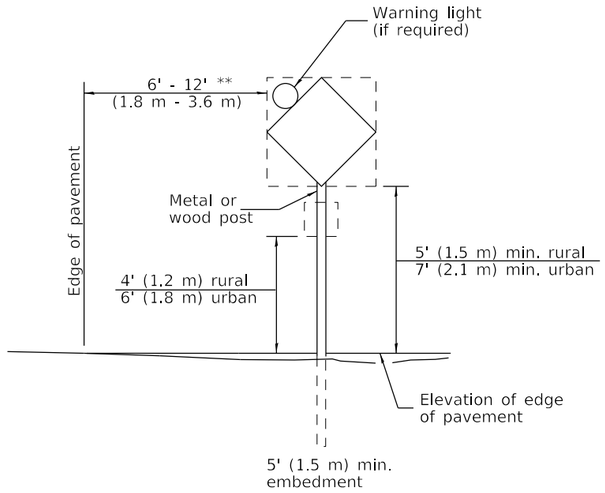
ISSUED 1-1-13

| DATE | REVISIONS |
|---|---|
| 1-1-19 | Revised cone usage and |
| | added cones >36" (900 m) height. |
| | |
| 1-1-18 | Revised END WORK ZONE |
| | SPEED LIMIT sign from |
| | orange to white background. |

# TRAFFIC CONTROL DEVICES

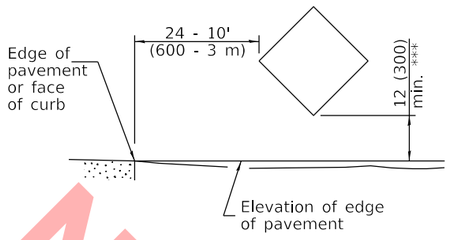
(Sheet 1 of 3)

# STANDARD 701901-08



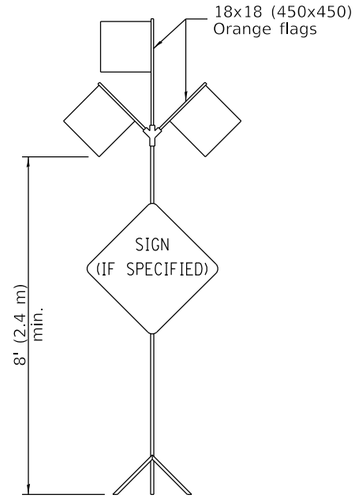

## POST MOUNTED SIGNS

** 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


G20-I104(0)-6036


G20-I105(0)-6024

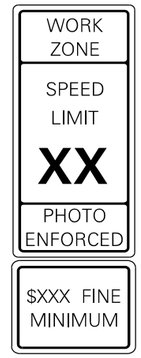
This signing is required for all projects 2 miles (3200 m) or more in length.

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



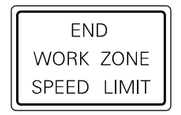

W21-III5(0)-3618

R2-I-3648

R10-I108p-3618 ****

R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

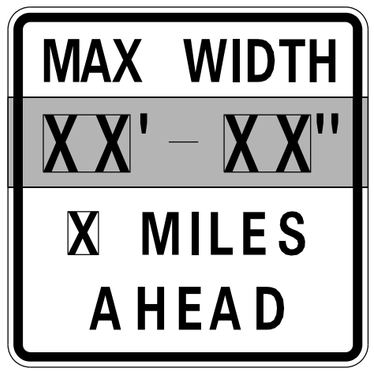



G20-I103-6036

This sign shall be used when the above sign assembly is used.

## HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

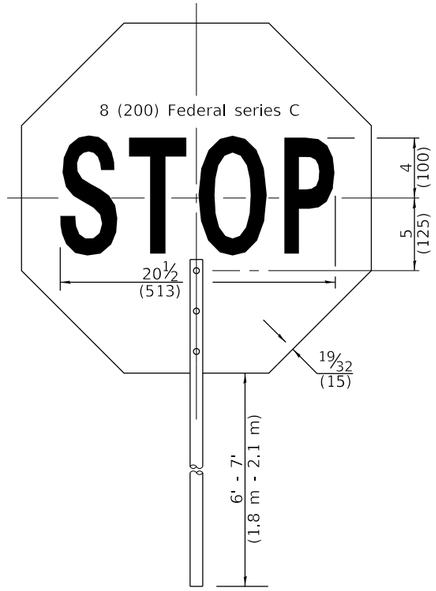
**** R10-I108p shall only be used along roadways under the juristiction of the State.



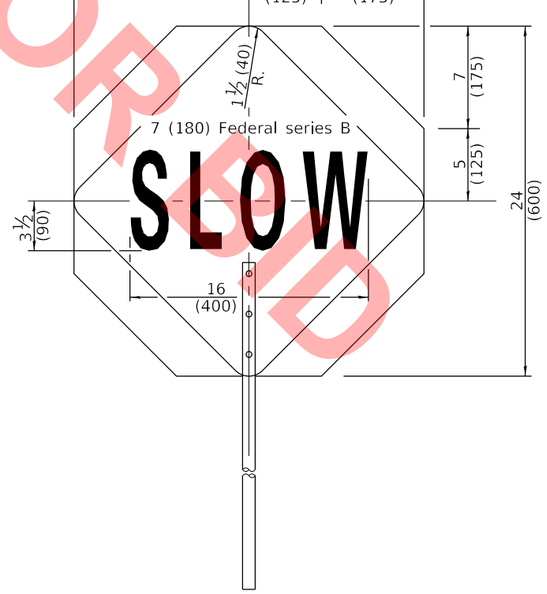

W12-I103-4848

## WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.




FRONT SIDE




REVERSE SIDE

## FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

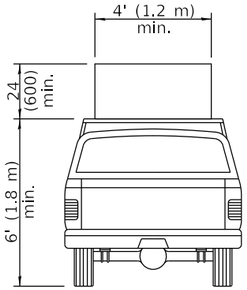
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

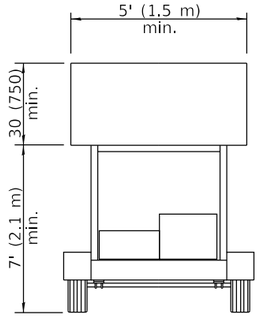
# TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

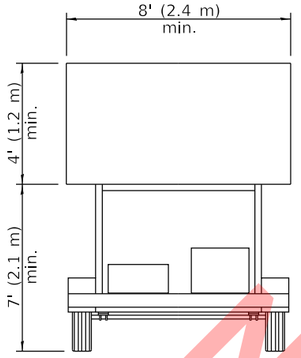
## STANDARD 701901-08




**TYPE A
ROOF
MOUNTED**

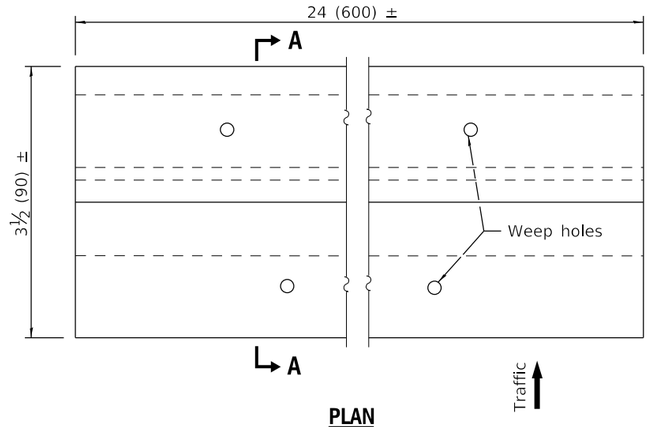



**TYPE B
ROOF OR TRAILER
MOUNTED**

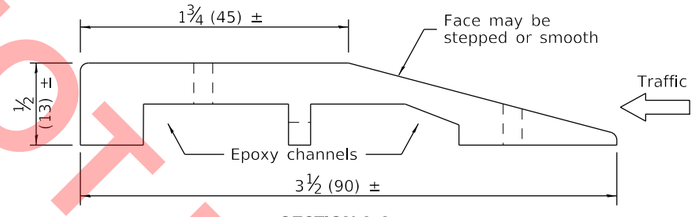



**TYPE C
TRAILER
MOUNTED**

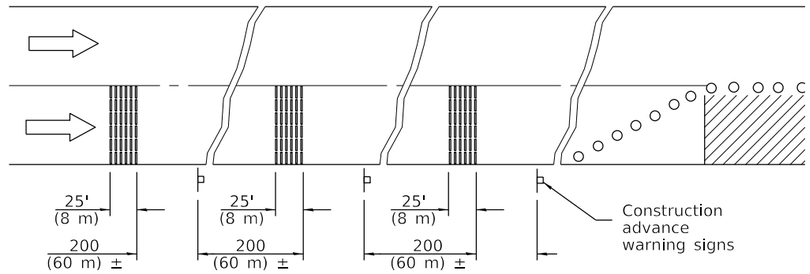
**ARROW BOARDS**

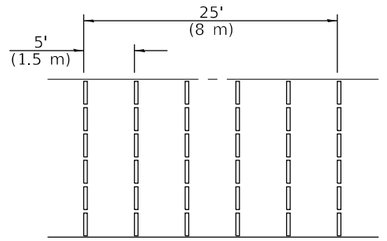



**PLAN**



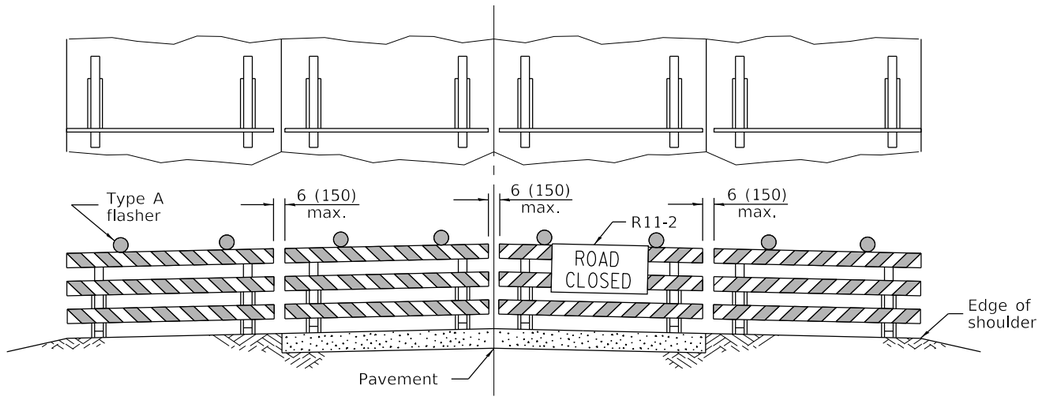

**SECTION A-A**



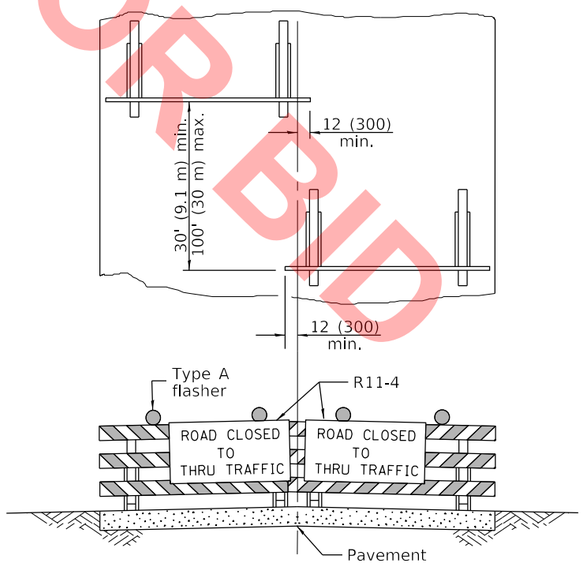

**TYPICAL INSTALLATION**

**TEMPORARY RUMBLE STRIPS**




ROAD CLOSED TO ALL TRAFFIC

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.




ROAD CLOSED TO THRU TRAFFIC

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**



Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

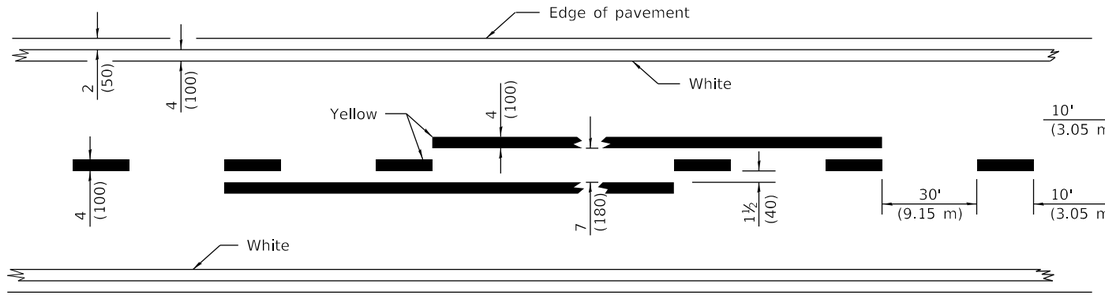
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

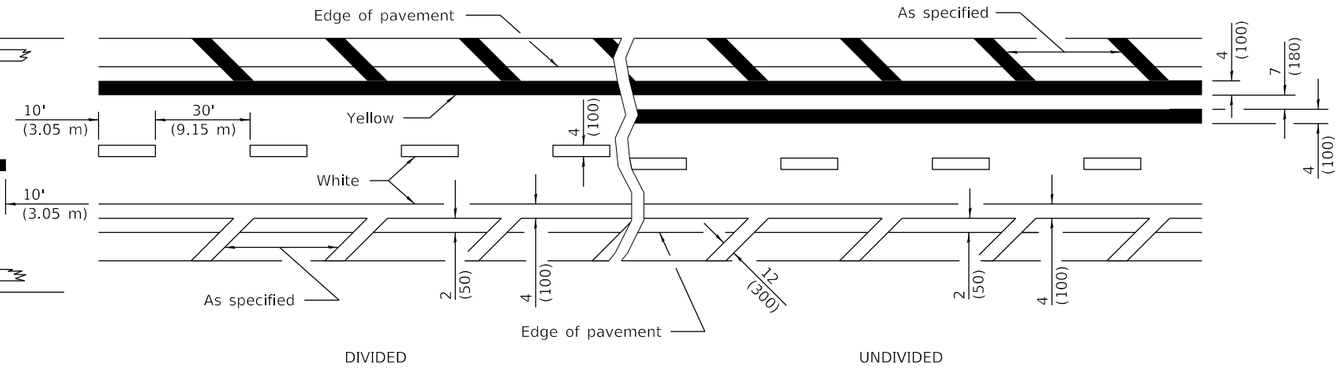
# TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

## STANDARD 701901-08

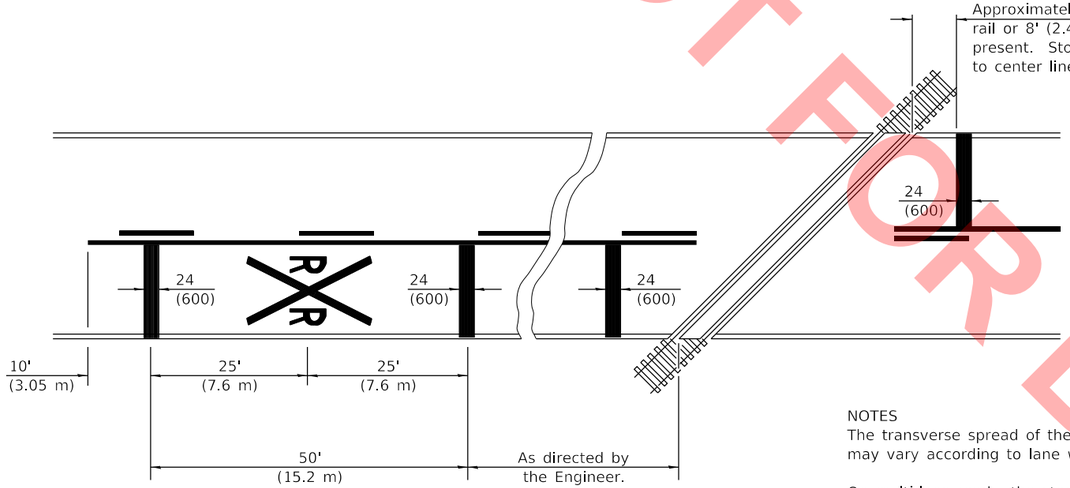


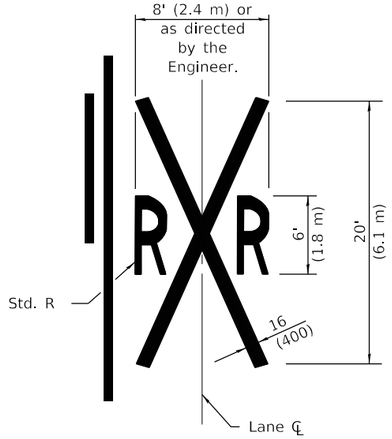

## 2 LANE




## 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.

Illinois Department of Transportation

PASSED January 1, 2015
ENGINEER OF OPERATIONS

APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

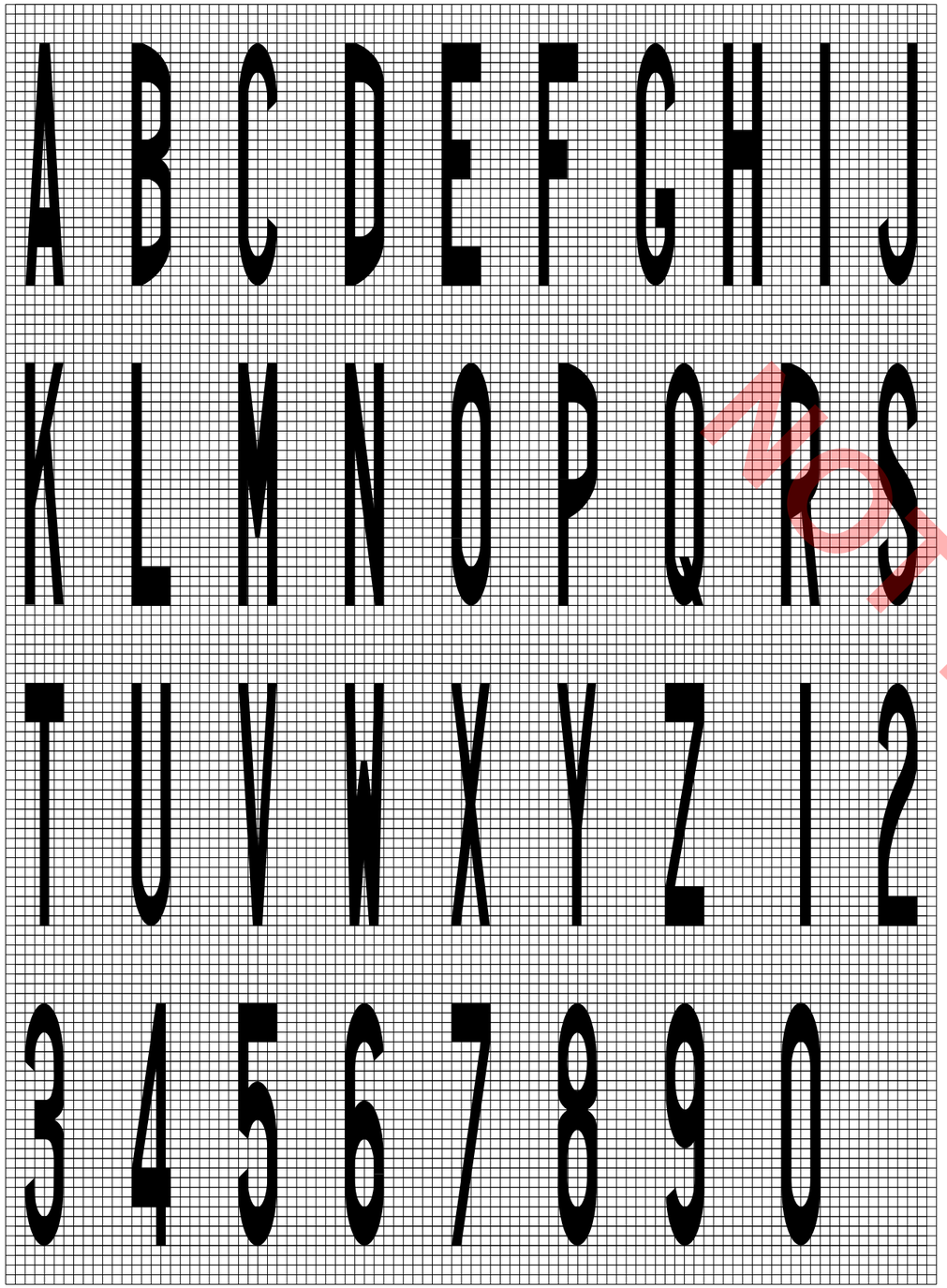
ISSUED 1-1-97

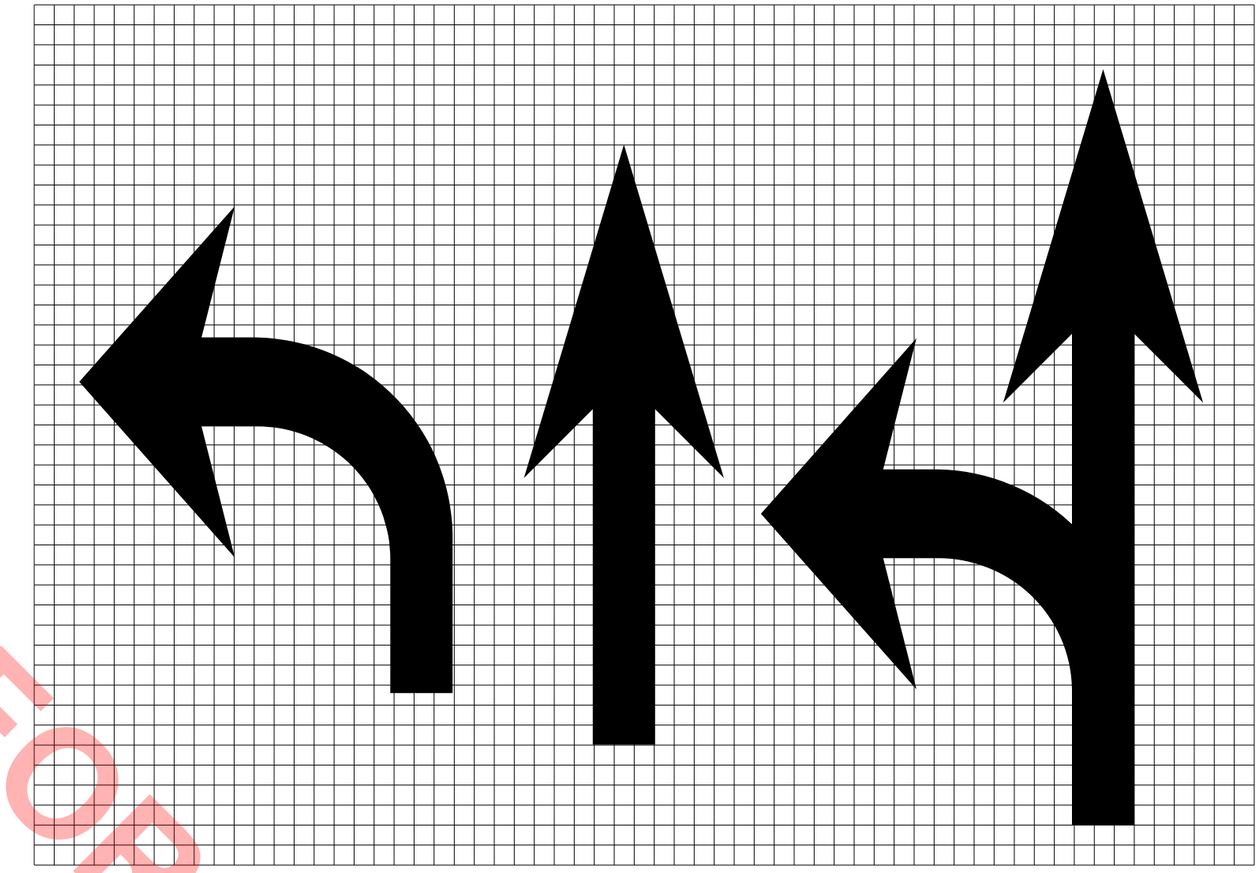
| DATE | REVISIONS |
|---|---|
| 1-1-15 | Added symbols. Revised |
| | bike symbol. Revised note |
| | for stop line at RR crossing. |
| 1-1-14 | Added bike symbol. Renamed |
| | 'LANE DROP ARROW' detail to |
| | 'LANE-REDUCTION ARROW'. |

# TYPICAL PAVEMENT MARKINGS

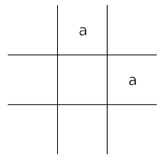
(Sheet 1 of 3)

**STANDARD 780001-05**








| 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

PASSED January 1, 2015
ENGINEER OF OPERATIONS

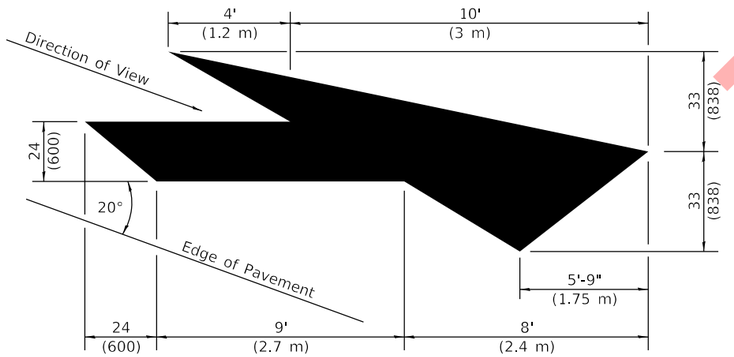
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

# TYPICAL PAVEMENT MARKINGS

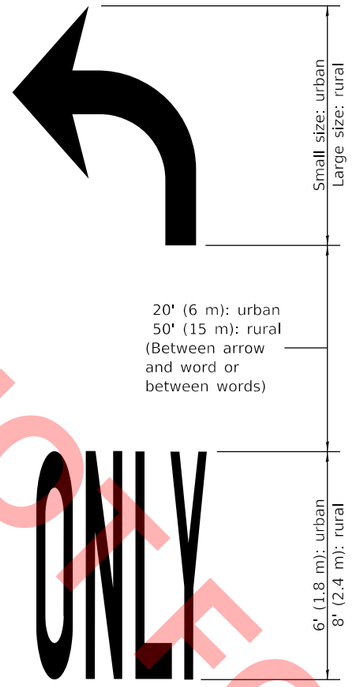


**STANDARD 780001-05**

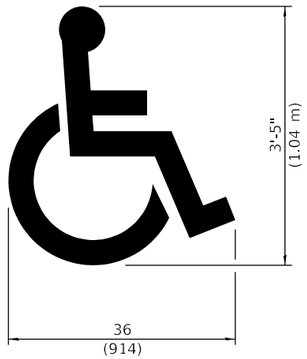



## LANE-REDUCTION ARROW

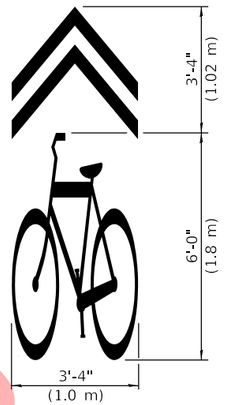
Right lane-reduction arrow shown.
Use mirror image for left lane.



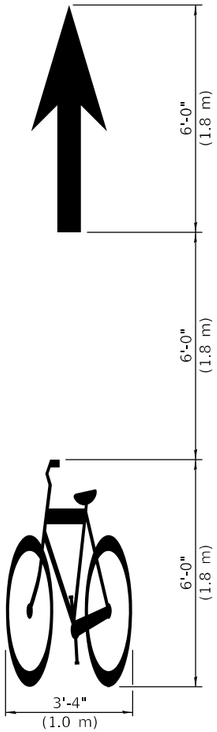

## WORD AND ARROW LAYOUT




## INTERNATIONAL SYMBOL OF ACCESSILITY

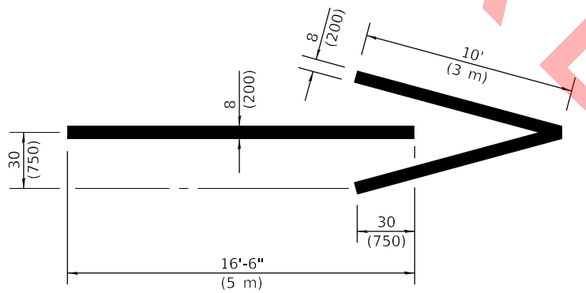



## SHARED LANE SYMBOL




## BIKE SYMBOL

(Arrow is optional.)




## WRONG WAY ARROW



Illinois Department of Transportation

PASSED January 1, 2015
ENGINEER OF OPERATIONS

APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

# TYPICAL PAVEMENT MARKINGS

(Sheet 3 of 3)

STANDARD 780001-05

# APPENDIX A

IRMA CONTRACTUAL INSURANCE GUIDELINES

# IRMA
# CONTRACTUAL INSURANCE GUIDELINES

## I. INSURANCE REQUIREMENTS

Contractor shall procure and maintain, for the duration of the contract, insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors.

### MINIMUM SCOPE OF INSURANCE

Coverage shall be at least as broad as:

A. Insurance Services Office Commercial General Liability occurrence form CG 0001 with the member named as additional insured, on a form at least as broad as the attached sample endorsement including ISO Additional Insured Endorsement CG 2010 (Exhibit A), CG 2026 (Exhibit B).

**CG2037 - Completed Operations – (Exhibit C)**
**Required if box is checked** ☐ ; and

B. Owners and Contractors Protective Liability (OCP) policy with the member as insured
**Required if box is checked** ☒ ; and

C. Insurance Service Office Business Auto Liability coverage form number CA 0001, Symbol 01 "Any Auto."

D. Workers' Compensation as required by the Workers' Compensation Act of the State of Illinois and Employers' Liability insurance.
**Coverage required for employee exposure to lead, if box is checked** ☒

E. Builder Risk Property Coverage with member as loss payee
**Required if box is checked** ☐.

F. Environmental Impairment/Pollution Liability Coverage for pollution incidents as a result of a claim for bodily injury, property damage or remediation costs from an incident at, on or migrating beyond the contracted work site. Coverage shall be extended to Non-Owned Disposal sites resulting from a pollution incident at, on or mitigating beyond the site; and also provide coverage for incidents occurring during transportation of pollutants.
**Required if box is checked** ☐.

### MINIMUM LIMITS OF INSURANCE

Contractor shall maintain limits no less than the following, **if required under above scope**:

A. Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, and property damage and $1,000,000 per occurrence for personal injury. The general aggregate shall be twice the required occurrence limit. Minimum General Aggregate shall be no less than $2,000,000 or a project/contract specific aggregate of $1,000,000.

B. Owners and Contractors Protective Liability (OCP): $1,000,000 combined single limit per occurrence for bodily injury and property damage.

C. Business Automobile Liability: $1,000,000 combined single limit per accident for bodily injury and property damage.

D. Workers' Compensation and Employers' Liability: Workers' Compensation coverage with statutory limits and Employers' Liability limits of $500,000 per accident.

E. Builder's Risk: Shall insure against "All Risk" of physical damage, including water damage (flood and hydrostatic pressure not excluded), on a completed replacement cost basis.

F. Environmental Impairment/Pollution Liability: $1,000,000 combined single limit per occurrence for bodily injury, property damage and remediation costs.



**DEDUCTIBLES AND SELF-INSURED RETENTIONS**

Any deductibles or self-insured retentions must be declared to and approved by the member. At the option of the member, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the member, its officials, employees, agents and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration and defense expenses.

**OTHER INSURANCE PROVISIONS**

The policies are to contain, or be endorsed to contain, the following provisions:

**A. General Liability and Automobile Liability Coverages**

1. The member, its officials, agents, employees and volunteers are to be covered as additional insureds as respects: liability arising out of the Contractor's work, including activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, leased or used by the Contractor; or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the member, its officials, agents, employees and volunteers.

2. The Contractor's insurance coverage shall be primary as respects the member, its officials, employees, agents and volunteers. Any insurance or self-insurance maintained by the member, its officials, agents, employees and volunteers shall be excess of Contractor's insurance and shall not contribute with it.

3. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the member, its officials, employees, agents and volunteers.

4. The Contractor's insurance shall contain a Severability of Interests/Cross Liability clause or language stating that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

5. If any commercial general liability insurance is being provided under an excess

or umbrella liability policy that does not "follow form," then the Contractor shall be required to name the member, its officials, employees, agents and volunteers as additional insureds.

6. All general liability coverages shall be provided on an occurrence policy form. Claims-made general liability policies will not be accepted.

7. The contractor and all subcontractors hereby agree to waive any limitation as to the amount of contribution recoverable against them by member. This specifically includes any limitation imposed by any state statute, regulation, or case law including any Workers' Compensation Act provision that applies a limitation to the amount recoverable in contribution such as Kotecki v. Cyclops Welding.

**B. Workers' Compensation and Employers' Liability Coverage**

The insurer shall agree to waive all rights of subrogation against the member, its officials, employees, agents and volunteers for losses arising from work performed by Contractor for the municipality.

1. NCCI Alternate Employer Endorsement (WC 000301) in place to insure that workers' compensation coverage applies under contractor's coverage rather than member's if the member is borrowing, leasing or in day to day control of contractors employee.
**Required if box is checked ☐.**

**C. Professional Liability (Required if box is checked ☐)**

1. Professional liability insurance with limits not less than $1,000,00 each claim with respect to negligent acts, errors and omissions in connection with professional services to be provided under the contract, with a deductible not-to-exceed $50,000 without prior written approval.

2. If the policy is written on a claims-made form, the retroactive date must be equal to or preceding the effective date of the contract. In the event the policy is cancelled, non-renewed or switched to an occurrence form, the Contractor shall be required to purchase supplemental extending reporting period coverage for a period of not less than three (3) years.

3. Provide a certified copy of actual policy for review.

4. Recommended Required Coverage (architect, engineer, surveyor, consultant): Professional liability insurance that provides indemnification and defense for injury or damage arising out of acts, errors, or omissions in providing the following professional services, but not limited to the following:

   a. Preparing, approving or failure to prepare or approve maps, drawings, opinions, report, surveys, change orders, designs or specifications;

   b. Providing direction, instruction, supervision, inspection, engineering services or failing to provide them, if that is the primary cause of injury or damage.

**D. All Coverages**

Each insurance policy required shall have the member expressly endorsed onto the policy as a Cancellation Notice Recipient. Should any of the policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

**ACCEPTABILITY OF INSURERS**

Insurance is to be placed with insurers with a Best's rating of no less than A-, VII and licensed to do business in the State of Illinois.

**VERIFICATION OF COVERAGE**

Contractor shall furnish the member with certificates of insurance naming the member, its officials, employees, agents and volunteers as additional insureds (Exhibit D), and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be received and approved by the member before any work commences. The following additional insured endorsements may be utilized: ISO Additional Insured Endorsements CG 2010 (Exhibit A) or CG 2026 (Exhibit B), and CG 2037 (Exhibit C) – Completed Operations, where required. The member reserves the right to request full certified copies of the insurance policies and endorsements.

**SUBCONTRACTORS**

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

**ASSUMPTION OF LIABILITY**

The contractor assumes liability for all injury to or death of any person or persons including employees of the contractor, any sub-contractor, any supplier or any other person and assumes liability for all damage to property sustained by any person or persons occasioned by or in any way arising out of any work performed pursuant to this agreement.

## II. INDEMNITY/HOLD HARMLESS PROVISION

To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify and hold harmless the member, its officials, employees and agents against all injuries, deaths, loss, damages, claims, patent claims, suits, liabilities, judgments, cost and expenses, which may in anywise accrue against the member, its officials, agents and employees, arising in whole or in part or in consequence of the performance of this work by the Contractor, its employees, or subcontractors, or which may in anywise result therefore, except that arising out of the sole legal cause of the member, its employees or agents, the Contractor shall, at its own expense, appear, defend and pay all charges of attorneys and all costs and other expenses arising therefore or incurred in connections therewith, and, if any judgment shall be rendered against the member, its officials, employees and agents, in any such action, the Contractor shall, at its own expense, satisfy and discharge the same.

Contractor expressly understands and agrees that any performance bond or insurance policies required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the member, its

officials, employees and agents as herein provided.

The Contractor further agrees that to the extent that money is due the Contractor by virtue of this contract as shall be considered necessary in the judgment of the member, may be retained by the member to protect itself against said loss until such claims, suits, or judgments shall have been settled or discharged and/or evidence to that effect shall have been furnished to the satisfaction of the member.

## III. SAFETY/LOSS PREVENTION

### Safety/Loss Prevention Program Requirements

- Successful bidder will provide written confirmation that a safety/loss prevention program was in place at least 90 days prior to submitting the bid proposal.

- Evidence of completed employee safety training can be provided.

### Regulatory Requirements

- Successful bidder must comply with all applicable laws, regulations, and rules promulgated by any Federal, State, County, Municipal and/or other governmental unit or regulatory body now in effect or which may be in effect during the performance of the work. Included within the scope of the laws, regulations, and rules referred to in this paragraph but in no way to operate as a limitation, are Occupational Safety & Health Act (OSHA), Illinois Department of Labor (IDOL), Department of Transportation, all forms of traffic regulations, public utility, Intrastate and Interstate Commerce Commission regulations, Workers' Compensation Laws, Prevailing Wage Laws, the Social Security Act of the Federal Government and any of its titles, the Illinois Department of Human Rights, Human Rights Commission, or EEOC statutory provisions and rules and regulations.

- Evidence of specific regulatory compliance will be provided by bidder, if required by owner.

## EXHIBIT A

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 20 10 07 04

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

# ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE**

| Name Of Additional Insured Person(s) Or Organization(s): | Location(s) Of Covered Operations |
|---|---|
| | |
| Information required to complete this Schedule, if not shown above, will be shown in the Declarations. | |

**A.** **Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

**B.** With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

## EXHIBIT B

POLICY NUMBER:

**COMMERCIAL GENERAL LIABILITY**
**CG 20 26 07 04**

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

# ADDITIONAL INSURED – DESIGNATED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE**

| Name Of Additional Insured Person(s) Or Organization(s) |
| --- |
| |
| Information required to complete this Schedule, if not shown above, will be shown in the Declarations. |

**Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

**A.** In the performance of your ongoing operations; or

**B.** In connection with your premises owned by or rented to you.

**EXHIBIT**
**C**

POLICY NUMBER:

**COMMERCIAL GENERAL LIABILITY**
**CG 20 37 07 04**

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

# ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE**

| Name Of Additional Insured Person(s) Or Organization(s): | Location And Description Of Completed Operations |
|---|---|
| | |
| Information required to complete this Schedule, if not shown above, will be shown in the Declarations. | |

**Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

Exhibit D (Example)

ACORD®

# 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).

| PRODUCER | CONTACT NAME: Producer/Ins. Broker Contact Info. |
|---|---|
| Name of Insurance Broker | PHONE (A/C, No, Ext): FAX (A/C, No): |
| | E-MAIL ADDRESS: |

| INSURER(S) AFFORDING COVERAGE | NAIC # |
|---|---|
| INSURER A: Name of Insurance Company | Completed |
| INSURER B: Name of Insurance Company | Completed |
| INSURER C: | |
| INSURER D: | |
| INSURER E: | |
| INSURER F: | |

INSURED: Name of Contractor

**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 | |
|---|---|---|---|---|---|---|---|---|
| A | GENERAL LIABILITY<br>X COMMERCIAL GENERAL LIABILITY<br>CLAIMS-MADE OCCUR<br>Owners & Cont.Prot.<br>(OCP) if requested<br>GEN'L AGGREGATE LIMIT APPLIES PER:<br>X POLICY PRO-JECT LOC | Y | Y | Policy Number Inserted | Policy Start Date | Policy Start Date | EACH OCCURRENCE<br>DAMAGE TO RENTED PREMISES (Ea occurrence)<br>MED EXP (Any one person)<br>PERSONAL & ADV INJURY<br>GENERAL AGGREGATE<br>PRODUCTS - COMP/OP AGG | $ 1,000,000<br>$ 50,000<br>$ 5,000<br>$ 1,000,000<br>$ 2,000,000<br>$ 1,000,000 |
| A | AUTOMOBILE LIABILITY<br>X ANY AUTO<br>ALL OWNED AUTOS<br>HIRED AUTOS<br>SCHEDULED AUTOS<br>NON-OWNED AUTOS | | | Policy Number Inserted | Policy Start Date | Policy Start Date | COMBINED SINGLE LIMIT (Ea accident)<br>BODILY INJURY (Per person)<br>BODILY INJURY (Per accident)<br>PROPERTY DAMAGE (Per accident) | $ 1,000,000<br>$<br>$<br>$ |
| A | X UMBRELLA LIAB X OCCUR<br>EXCESS LIAB CLAIMS-MADE<br>DED RETENTION $ | Y | Y | Policy Number Inserted | Policy Start Date | Policy Start Date | EACH OCCURRENCE<br>AGGREGATE | $ Per Request<br>$ Per Request |
| B | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY<br>ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N N<br>If yes, describe under DESCRIPTION OF OPERATIONS below | N/A | Y | Policy Number Inserted | Policy Start Date | Policy Start Date | X WC STATU-TORY LIMITS OTH-ER<br>E.L. EACH ACCIDENT<br>E.L. DISEASE - EA EMPLOYEE<br>E.L. DISEASE - POLICY LIMIT | $ 500,000<br>$ 500,000<br>$ 500,000 |
| | Professional Liability (other specialty coverages as requested) | | | Policy Number Inserted | Policy Start Date | Policy start Date | $1,000,000 per occurrence or as requested | |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

List project number, location and description.

No additional endorsements limit coverage to additional insured beyond terms of actual additional insured endorsement (CG 2010 or CG 2026). Coverage to additional insured is primary. Additional Insured: Member, its officials, employees, agents and volunteers.

* Member named as cancellation notice recipient.

**CERTIFICATE HOLDER**

Name of Member

**CANCELLATION**

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

Signature of authorized insurance company representative

# APPENDIX B

VILLAGE OF VILLA PARK ORDINANCE 3733

**Ordinance No.** 3733

# AN ORDINANCE OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS AMENDING THE REQUIREMENTS OF BIDDERS FOR CONSTRUCTION PROJECTS

**WHEREAS,** the Village of Villa Park (the "*Village*") is a duly organized and validly existing non home-rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and,

**WHEREAS,** section 8-9-1 of the Illinois Municipal Code (65 ILCS 5/8-9-2) allows the Village to require competitive bidding after advertising for bids in the manner prescribed by ordinance; and,

**WHEREAS,** the President and Board of Trustees desire to adopt purchasing procedures to provide for additional requirements of bidders for construction projects to have active apprenticeship and training programs approved and registered with the United States Department of Labor's Bureau of Apprenticeship and Training and to have bidders show three similar projects they constructed within the last five years.

**NOW, THEREFORE, BE IT ORDAINED** by the President and Board of Trustees of the Village of Villa Park, DuPage County, Illinois, as follows:

**Section 1.** That Section 2-219 of the Villa Park Municipal Code, as amended, be and is hereby amended by placing the existing text as subsection A. and adding a new subsection B. to read as follows:

"B. A responsible bidder for the construction of public works projects shall meet and submit evidence of compliance with the following requirements:

(1) All applicable laws prerequisite to doing business in the State of Illinois,
(2) A federal employer tax identification number or social security number,
(3) Provision of Section 2000(e) of Chapter 21, Title 42 of the United States Code and Federal Executive Order No. 11246 as amended by Executive Order No. 11375 (known as the Equal Opportunity Employer provisions),
(4) Certificates of insurance indicating the following coverage's: general liability, worker's compensation, completed operations, automobile, hazardous occupation and product liability
(5) Compliance with all provisions of the Illinois Prevailing Wage Act, including wages, medical and hospitalization insurance and retirement for those trades covered in the Act,
(6) The bidder and all bidder's sub-contractors must participate in active apprenticeship and training programs approved and registered with the United States Department of Labor's Bureau of Apprenticeship and Training for each of the trades of work contemplated under the proposed contract,
(7) All contractors and sub-contractors are required to file certified payrolls as specified in Illinois Pubic Act 94-0515, and follow all provisions of the Employee Classification Act (820 ILCS 185/1 et seq.), and

(8) All bidders must provide three (3) projects of a similar nature constructed in the immediate past five (5) years with the name, address and telephone number of the contact person having knowledge of the project along with three (3) references (name, address, and telephone number) with knowledge of the integrity and business practices of the bidder."

***Section 2.*** This Ordinance shall be in full force and effect upon its passage, approval, and publication as provided by law.

Passed this 11 day of February, 2013.

AYES: ALL

NAYS: Aiello Bulthuis

ABSENT: _____

Approved this 11 day of February, 2013.

Village President

Attest:

Village Clerk

VILLAGE OF VILLA PARK CORPORATE SEAL DU PAGE COUNTY, ILL.

Published in pamphlet form:

2-11, 2013

# APPENDIX C

VILLAGE OF VILLA PARK WATER WORK PROCEDURES

# Village of Villa Park
## Water Work Procedures

### Water Shutdowns

Scheduling of Water Work

Water shutdowns are not permitted on Mondays or on the first day of the work week if the first day of the work week is not a Monday.

Water shutdowns are not permitted on Fridays.

The water may only be shut down between the hours of 9:00 am and 4:00 pm.

Scheduled water shutdowns may not affect any resident or business on two consecutive days.

Exceptions to these requirements may be made on a case-by-case basis upon written request from the contractor and written approval from the Village.

Contractor's Notice to Village

The Contractor shall provide a written request to the Village by e-mail to engineering@invillapark.com a minimum of seven days prior to the shutdown. The written request shall identify the proposed date or dates for which water shutdowns are requested, backup dates, and the exact items of work to be completed each day of shutdown. Requests for shutdowns received less than seven days prior to the shutdown will be rejected and no shutdown will be provided.

Village Evaluation

The Public Works Utilities Division will evaluate the items of proposed work, identify the valves which need to be operated, and exercise those valves and evaluate the shutdown a minimum of 48 hours prior to the scheduled shutdown. The Utilities Division will then provide the Engineering Division a list or map of the valves expected to be operated as part of the shutdown.

Resident Notification

Following confirmation from the Utilities Division as to which valves will be operated as part of a shutdown, the Engineering Division will determine which residents will be affected by the shutdown and generate a map of residents who are to be notified.

The Engineering Division or its consultant will deliver door hanger letters to the affected residents a minimum of 24 hours prior to the scheduled start of the shutdown.

The Engineering Division will also issue a CodeRED notification, including e-mail, mobile app, text, Twitter, and Facebook distribution; and/or an e-mail notification to residents whose e-mail addresses are on record; a minimum of 24 hours prior to the scheduled start of the shutdown. The Engineering Division will also notify the Village of Villa Park Fire Department.

Shutdown

Shutdown shall only be performed by the Public Works Utilities Division. The Public Works Utilities Division will report to the site in advance of the scheduled shutdown time, confirm the shutdown and the timeframe with the contractor, and initiate the shutdown. Upon shutdown, Public Works Utilities Division staff will notify the contractor that the water is shut down and then notify Public Works office staff that the water is shut down.

Public Works office staff will contact DU-COMM and the Village of Villa Park Fire Department to inform them that the water is off.

Inspection

In addition to any Engineering Division or consultant staff that may be responsible for oversight of the project, all water work must be inspected by the Public Works Utilities Division. Water work may not be backfilled until inspection is completed, the water is turned back on, and the Utilities Division gives approval to backfill.

Inspections by the Public Works Utilities Division must be requested by the contractor by calling the Public Works Department at (630) 834-8505. It is recommended that calls for inspections be placed an hour in advance of the time an inspection is needed. The final inspection request of the workday must be made at least one hour prior to the scheduled end of the shutdown.

Turn-on

Turn-on shall only be performed by the Public Works Utilities Division. Upon turn-on, Public Works Utilities Division staff will inspect the work a final time and confirm there are no leaks. If there are none they will notify the contractor and Public Works office staff that the water is turned on.

Public Works office staff will contact DU-COMM and the Village of Villa Park Fire Department to inform them that the water is on.

## Required Materials

All materials furnished shall comply with the latest requirements of the Federal Safe Drinking Water Act.

Water Main Pipe

Water main pipe shall be ductile iron pipe conforming to ANSI/AWWA C151/A21.51, Class 52 standard thickness, with push on joints conforming to AWWA C111.

Water Main Fittings

Water main fittings shall be ductile iron conforming to ANSI/AWWA C110/A21.10 or ANSI/AWWA C153/A21.53. Fittings shall be cement mortar lined and tar coated in accordance with AWWA C104.

Fittings shall have mechanical joint end connections unless otherwise specified. Fittings shall include tees, crosses, reducers, and all other fittings as may be necessary.

Mechanical Joint Restraints

Mechanical joint restraints shall be EBAA Iron, Inc., MEGALUG Mechanical Joint Restraints for Ductile Iron Pipe, or approved equal.

Hardware

All bolts, threaded rods, nuts, washers, and other hardware and fasteners to be installed below grade shall be stainless steel. Bolts and threaded rods shall be Type 304 stainless steel. Nuts and washers shall be Type 300 stainless steel.

Water Valves

Water valves shall be AMERICAN Flow Control Series 2500 Ductile Iron Resilient Wedge Gate Valves conforming to ANSI/AWWA C515, with mechanical joint end connections, of the diameter specified, or approved equal. All exterior valve body bolting shall be Type 304 stainless steel.

Water Valve Vaults

Water valve vaults shall be precast reinforced concrete with a minimum diameter of 4 ft. for valves 8 in. diameter or less and with a minimum diameter of 5 ft. for valves 10 in. diameter or more. The cone section of the valve vault shall have a concentric opening. The pipe openings in the valve vault shall be fitted with rubber pipe boots.

Fire Hydrants

Fire hydrants shall be AMERICAN Flow Control 5 ¼" Waterous Pacer Fire Hydrant Model WB67-250, conforming to ANSI/AWWA C502, with all stainless steel trim, above ground breakable flanges, and auxiliary resilient wedge gate valve and valve box. Fire hydrants shall be fitted with DDP arrangement nozzle sections with one 4 ½ in. pumper nozzle and two 2 ½ in. hose nozzles with National Standard threads and a National Standard operating nut.

Fire hydrants shall be factory painted red, prime coated with an epoxy, and finish coated with a two-part polyurethane top coat. Fire hydrants that are not factory painted red will be considered unacceptable and will be rejected. Contractor shall take all necessary care during installation and backfilling so as not to damage the factory paint coating of the hydrants.

Fire hydrants shall be furnished with a 6' - 0" bury depth. Fire hydrants which are to be constructed on existing water mains where a 6' - 0" bury depth is incompatible with the depth of the existing water main shall be substituted with a fire hydrant of a different bury depth as approved by the Engineer.

Auxiliary valves shall be AMERICAN Flow Control Series 2500 Ductile Iron Resilient Wedge Gate Valves conforming to ANSI/AWWA C515, with mechanical joint end connections, 6 in. diameter. All exterior valve body bolting shall be Type 304 stainless steel.

Valve boxes shall have a cover embossed with the word “WATER”.

Hydrant lead pipe shall be ductile iron pipe conforming to ANSI/AWWA C151/A21.51, Class 52 standard thickness, with push on joints conforming to AWWA C111, 6 in. diameter.

Valve box stabilizer grips shall be by BLR Enterprises, Inc., or approved equal.

Valve box adapters shall be Adaptor Valve Box Adaptor II (VBA-II), or approved equal.



Water Main Repair Couplings

Water main couplings shall be Krausz Hymax Grip coupling restraints of the diameter required, or approved equal.

Repair Sleeves

Repair sleeves shall be Smith-Blair Full Circle Repair Clamps of the appropriate diameter and of sufficient length.

Tapping Saddles

Tapping saddles shall be Smith-Blair 317 double stainless steel strap ductile iron service saddle with TaperSeal gasket and wraparound 304 stainless steel strap. Tapping saddles shall be used for all water service lines 1-1/2 in. diameter to 2 in. diameter.

Water service lines that are 1 in. in diameter shall be direct tap. Water service lines larger than 2 in. in diameter require a mechanical joint connection.

Water Service Line Pipe

Water service line pipe shall be Type “K” seamless copper water tubing conforming to ASTM B88, of the diameter specified. The pipe shall be marked with the manufacturer’s name or trademark and with markings indicating the type of the pipe.

Water Service Line Couplings

Water service line couplings shall be Mueller H-15400 straight three part unions with copper flare nuts on both ends, conforming to ANSI/AWWA C800, of the size needed. Compression fittings will not be permitted.

Corporation Stops (Corps)

Corporation stops shall be Mueller 300 Ball Corporation Valve Model B 25000 with AWWA taper (Mueller “CC”) thread inlet and copper flare straight connection outlet.

# Village of Villa Park
## Water Work Procedures

Curb Stops (Roundways)

Curb stops shall be Mueller 300 Ball Curb Valve Model B 25154 with copper flare nuts on both ends, quarter turn check, and Minneapolis pattern thread top.

Curb Boxes (B-boxes)

Curb boxes shall be Mueller extension type curb box Model H 10302 with Minneapolis pattern base, 1 ½ in. inside diameter, and 2 ½ in. base tapping diameter.



## Personnel Contact Information

| NAME | DIVISION | ROLE | PHONE |
|---|---|---|---|
| Michael Guerra | Public Works Admin | Director of Public Works | (630) 918-0114 |
| Rich Salerno | Public Works Admin | Deputy Director of Public Works | (847) 962-1289 |
| Kevin Mantels | Engineering Division | Assistant Village Engineer | (630) 290-1331 |
| Karla Bastien | Engineering Division | Civil Engineer | (630) 688-0556 |
| Dennis Jessen | Utilities Division | Utilities Foreman | (630) 418-3112 |
| Tom Venchus | Utilities Division | Lead Worker | (630) 918-0921 |
| Jeff Deeke | Utilities Division | Maintenance Worker II | (630) 207-0029 |
| Dan Coulter | Utilities Division | Maintenance Worker II | (630) 917-4810 |
| Nick Vecchione | Utilities Division | Maintenance Worker II | (630) 361-4795 |

# Village of Villa Park
## Water Shutdown Procedures



**Scheduling of Water Shutdowns**

Water shutdowns are not permitted on Mondays, Fridays, or on the first day of the work week if the first day of the work week is not a Monday. The water may only be shut down between the hours of ***9:00 am and 4:00 pm.*** Scheduled water shutdowns may not affect any resident or business on two consecutive days.

**Contractor's Notice to Village**

The Contractor shall provide a written request to the Village by e-mail to engineering@invillapark.com a minimum of ***seven days*** prior to the shutdown. The written request shall identify the proposed date or dates for which water shutdowns are requested, backup dates, and the exact items of work to be completed each day of shutdown. Requests for shutdowns received less than seven days prior to the shutdown will be rejected and no shutdown will be provided.

**Village Evaluation**

The Public Works Utilities Division will evaluate the items of proposed work, identify the valves which need to be operated, and exercise those valves and evaluate the shutdown a minimum of 48 hours prior to the scheduled shutdown.

**Resident Notification**

Following confirmation from the Utilities Division as to which valves will be operated as part of a shutdown, the Engineering Division will determine which residents will be affected and deliver door hanger letters to the affected residents a minimum of 24 hours prior to the scheduled start of the shutdown.

**Shutdown**

***Shutdown shall only be performed by the Public Works Utilities Division.*** The Public Works Utilities Division will report to the site in advance of the scheduled shutdown time, confirm the shutdown and the timeframe with the contractor, and initiate the shutdown. Upon shutdown, Public Works Utilities Division staff will notify the contractor that the water is shut down.

**Inspection**

In addition to any Engineering Division or consultant staff that may be responsible for oversight of the project, all water work must be inspected by the Public Works Utilities Division. ***Water work may not be backfilled until inspection is completed***, the water is turned back on, and the Utilities Division gives approval to backfill.

Inspections by the Public Works Utilities Division must be requested by the contractor by calling the Public Works Department at (630) 834-8505. It is recommended that calls for inspections be placed an hour in advance of the time an inspection is needed. The final inspection request of the workday must be made at least one hour prior to the scheduled end of the shutdown.

**Turn-on**

***Turn-on shall only be performed by the Public Works Utilities Division.*** Upon turn-on, Public Works Utilities Division staff will inspect the work a final time and confirm there are no leaks. If there are none they will notify the contractor that the water is turned on.

# Village of Villa Park
## Water Shutdown Procedures

**Personnel Contact Information**

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|---|---|---|---|
| Michael Guerra | Public Works Admin | Director of Public Works | (630) 918-0114 |
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