

ADDENDUM NO. 1

ROCK RIVER WATER RECLAMATION DISTRICT FULLER CREEK PHASE F, SOPER STREET FORCEMAIN CAPITAL PROJECT NO. 1153, IEPA PROJECT NO. L17-5306

VILLAGE OF WINNEBAGO WATER MAIN IMPROVEMENTS AND WESTFIELD CULVERT REPLACEMENT

This Addendum Number 1, dated April 12, 2018 for the above referenced project, supersedes all contrary and conflicting information in the specifications and contract documents, which are hereby supplemented or revised as follows:

PROJECT CLARIFICATIONS

1. At the pre-bid meeting held on April 3, 2018, a prospective bidder asked if directional drilling would be allowed for force main and water main construction. Bidders shall bid the work as designed, which assumes open-cut installation and subsequent surface restoration. Concerns with directional drilling in this location include but are not limited to existing public and private utilities throughout the construction site, soil conditions that vary based on location and depth of proposed work, and the importance of accuracy of installed grade on the force main in order to avoid unnecessary air/vacuum relief valves.

PROJECT SPECIFICATIONS

Section I – Bidding Requirements and Contract Documents:

1. Replace the original Bid Form (pages 15 through 27) with the revised Bid Form. The bid schedule has been updated to reflect the plan changes described below. Clarification to comparison of proposals and award of alternates has been added to page 25 of the Bid Form. Bidders shall use the updated Bid Form in their bid submittal.

Section III – Village of Winnebago Water Main Special Provisions

1. Replace Section III with the enclosed special provisions. The following sections have been revised:
 - a. Grading and Shaping
 - b. Stone Riprap, RR2
 - c. Water Main Pipe Bedding, Backfill, and Compaction
 - d. Water Service Complete (Short), 1”
 - e. Water Service Complete (Long), 1”

PROJECT PLANS

1. Replace the following plan sheets with the attached revised plan sheets
 - a. Sheet 3 – The Summary of Quantities has been updated to reflect changes.
 - b. Sheet 31 – Quantities have been updated.
 - c. Sheet 34 – Proposed grading plan has been revised and temporary easement limits adjusted.
 - d. Sheet 35 – Proposed grading plan has been revised.
 - e. Sheet 37 – Rip Rap has been revised to RR2 gradation.

This information shall be taken into consideration when preparing your bid. This addendum will be E-mailed to all plan holders as well as posted to the District's website at www.rr wrd.dst.il.us.

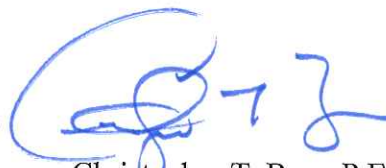
END OF ADDENDUM NO. 1

Issued April 12, 2018

Rock River Water Reclamation District



Matthew L. Campbell, P.E.
Project Engineer



Christopher T. Baer, P.E.
Engineering Manager

Enclosures: Revised Bid Form or Proposal (pages 15-27), Revised Section III, Revised Plan Sheets 31, 34, 35, & 37.

Bid Form or Proposal

Proposal of _____ (hereinafter called "BIDDER"), organized and existing under the laws of the State of _____ doing business as _____^{*}
to the Rock River Water Reclamation District (hereinafter called "OWNER").

In compliance with your Advertisement for Bids, BIDDER hereby proposes to perform all WORK for the construction of Fuller Creek Phase F, Soper Street Forcemain, Capital Project No. 1566, IEPA Project No. L17-5306, and Village of Winnebago Water Main Improvements and Westfield Culvert Replacement 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. All pavement shall be complete by October 15, 2018 and all work shall be fully complete by December 31, 2018. BIDDER further agrees to pay as liquidated damages, the sum of \$300.00 for each consecutive calendar day thereafter, for each completion deadline.

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 certifies as to his or her 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 than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 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. Subrecipients may obtain wage determination from the US Department of Labor's website www.dol.gov.

(ii)(A) The subrecipient, on behalf of US EPA, 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 US EPA 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 subrecipient 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 subrecipient to IEPA. IEPA will 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 event the contractor, the laborer or mechanics to be employed in the classification or their representatives, and the subrecipient 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 subrecipient, 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 that classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics including 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 subrecipient 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 subrecipient 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 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 the that 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 subrecipient. Such documentation shall be available on request of IEPA or US EPA. 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 for desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site <https://www.dol.gov/whd/forms/index.html>. 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 subrecipient, for transmission to the IEPA, US EPA, 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 subrecipient.

(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 and 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 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)(1) of this section available for inspection, copying, or transcription by authorized representatives of IEPA, US EPA, 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 predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as state 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 ration permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid in the full amount of fridge 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 the 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) Trainee. 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 the 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 not 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 US EPA may be 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 is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

4. 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 mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation: liability for unpaid wages: liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefore 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 subrecipient, shall upon its own action or upon written request of the US EPA 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 clause 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 US EPA and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

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.

Base Bid; RRWRD Soper Street Forcemain Construction					
No.	Item	Quantity	Unit	Unit Price	Total Price
1	12" DR-18 PVC Forcemain Piping (AWWA C-900/ASTM D3139)	3,890	LF		
2	12" DIA. 45 Deg. Bend, Class 350 Ductile Iron (AWWA C-110)	8	EA		
3	4' Dia. Forcemain Discharge Manhole	1	EA		
4	8" SDR35 PVC Sanitary Sewer (ASTM D3034 ASTM D3212)	48	LF		
5	18" PS46 PVC Sanitary Sewer (ASTM F679 ASTM D3212)	70	LF		
6	5' DIA. Air Release Valve & Vault	1	EA		
7	Remove 4' Dia. Sanitary Manhole	4	EA		
8	4' Dia. Sanitary Manhole	2	EA		
9	17" X 13" CMP Arch Culvert, Remove & Replace	14	LF		
10	12" Dia. CMP Culvert, Remove & Replace	24	LF		
11	15" Dia. CMP Culvert, Remove & Replace	8	LF		
12	18" Dia. CMP Culvert, Remove & Replace	8	LF		
13	12" Dia. RCP Storm Sewer, Remove & Replace	16	LF		
14	15" Dia. RCP Storm Sewer, Remove & Replace	11	LF		
15	24" Dia. RCP Storm Sewer, Remove & Replace	8	LF		
16	36" Dia. RCP Storm Sewer, Remove & Replace	14	LF		
17	Remove & Replace Catch Basin	1	EA		
18	6" Dia. Water Main Repair	40	LF		
19	8" Dia. Water Main Repair	10	LF		
20	Rock Excavation	366	CY		
21	Pavement Removal	5,912	SY		
22	HMA Surface Removal, 2"	5,466	SY		
23	Aggregate Base Course, Type B	3,700	TON		
24	HMA Binder course, N50, IL-19.0	762	TON		

25	HMA Surface Course, Mix "C", N50, IL-9.5	1,018	TON		
26	PCC Driveway Pavement, 6"	19	SY		
27	Aggregate Shoulder	365	SY		
28	PCC Sidewalk Removal	251	SF		
29	PCC Sidewalk - 4"	255	SF		
30	Detectable Warning	108	SF		
31	Remove & Replace PCC Curb & Gutter	142	FT		
32	Erosion & Sediment Control, Soper Street	1	LS		
33	Traffic Control & Protection, Soper Street	1	LS		
34	Site Restoration/Seeding, Soper Street	1	LS		
35	Existing Sanitary MH Adjustment	1	EA		
36	Abandon Existing Pump Station	1	LS		
37	Pavement Marking, Elida Street	1	LS		
Subtotal: Base Bid =					

Bid Alternate #1; Village of Winnebago Soper Street Water Main Improvements					
No.	Item	Quantity	Unit	Unit Price	Total Price
A1-1	Pavement Removal	799	SY		
A1-2	Aggregate Base Course, Type B	558	TON		
A1-3	HMA Binder Course, N50, IL-19.0	8	TON		
A1-4	HMA Surface Course, Mix "C", N50, IL-9.5	85	TON		
A1-5	PCC Driveway Pavement, 6"	45	SY		
A1-6	Erosion & sediment Control, Westfield Road	1	LS		
A1-7	Traffic Control & Protection, Westfield Road	1	LS		
A1-8	Site Restoration/Seeding, Westfield Road	1	LS		
A1-9	Remove Fire Hydrant, Complete	6	EA		
A1-10	Remove Valve & Valve Box, Complete	7	EA		
A1-11	Aggregate Driveway 8", Complete	95	SY		
A1-12	PVC Water Main Complete, 10"	2177	LF		
A1-13	Water Main Protection, 20"	25	LF		
A1-14	Water Service Complete, 1" (Short)	20	EA		
A1-15	Water Service Complete, 1" (Long)	2	EA		
A1-16	Gate Valve & Valve Box Complete, 10"	14	EA		
A1-17	Fire Hydrant with 6" Valve & Valve Box, Complete	5	EA		
A1-18	Connect to Existing Water Main, Complete 6"	4	EA		
A1-19	Connect to Existing Water Main, Complete 8"	2	EA		
A1-20	Connect to Existing Water Main, Complete 10"	1	EA		
A1-21	Pipe Culverts, Class D, Type 1, 12" (Elliptical)	250	LF		
A1-22	Pipe Culverts, Class D, Type 1, 15" (Elliptical)	29	LF		
A1-23	Water Main Line Stop, 6"	3	EA		
A1-24	Rock Excavation	25	CY		
A1-25	PCC Sidewalk - 4"	78	SF		
Subtotal: Bid Alternate #1 =					

Bid Alternate #2; Village of Winnebago Westfield Drainage Improvements					
No.	Item	Quantity	Unit	Unit Price	Total Price
A2-1	Pavement Removal	206	SY		
A2-2	Aggregate Base Course, Type B	155	TON		
A2-3	HMA Binder Course, N50, IL-19.0	26	TON		
A2-4	HMA Surface Course, Mix "C", N50, IL-9.5	23	TON		
A2-5	Erosion & Sediment Control, Westfield Drainage	1	LS		
A2-6	Traffic Control & Protection, Westfield Drainage	1	LS		
A2-7	Site Restoration/Seeding, Westfield Drainage	1	LS		
A2-8	Grading and Shaping	3.35	ACRE		
A2-9	Stone Riprap, RR2	73	SY		
A2-10	Pipe Culverts, Class D, Type 1, 57"X38" (Elliptical)	60	LF		
A2-11	Metal End Section, 57" X 38" (Elliptical)	2	EA		
A2-12	HMA Path, Complete	62	SY		
A2-13	6" PCC Sidewalk, Complete	414	SF		
Subtotal: Bid Alternate #2 =					
Total Base Bid (IEPA Loan L17-5306) =					
Total Base Bid + Bid Alternate #1 (VOW) =					
Total Base Bid + Bid Alternate #1 + Bid Alternate #2 (VOW) =					

This project will be awarded, if at all, to a single bidder. In accordance with IEPA Procurement Requirements for Construction Contracts and Sec. I, Part 3.12.7 of the Contract Documents, the District is responsible for selecting the low, responsive, responsible bidder. Bids will be compared based on the total price bid for Base Bid work. Bid Alternates No. 1 and No. 2 will be awarded, if at all, as additive alternates to Base Bid work. As per Section I, Part 3.11 of the Contract Documents, the District reserves the right to reject any and all bids and to accept the bid which they deem most favorable to the interest of the District after all proposals have been examined and canvassed.

Bidder is currently certified as an MBE or WBE under EPA'S DBE Program?

Yes _____ No _____

Respectfully submitted:

Signature

Address

Title

Date

License Number (if applicable)
(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.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		

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GENERAL

Prior to beginning work, the contractor shall submit to the engineer the proposed sources of supply for all materials required to perform the work. It shall be the contractor's responsibility to ensure that all materials meet the requirements of applicable specifications.

The contractor shall notify the engineer and the Village of Winnebago regarding any deviations from the plans and/or specifications during construction.

GRADING AND SHAPING

This work shall be completed according to Articles 202, 211, and 551 of the Standard Specifications and the following:

This line item shall include necessary topsoil stripping, earth excavation work, and replacement of topsoil as necessary. Topsoil will not be required to be replaced so long as a minimum of 6" of topsoil remains after finished grades have been achieved. Any excess topsoil or earth excavation shall be the responsibility of the Contractor to haul off. Prior to any haul off, the contractor shall coordinate with the Village to verify if the Village wishes to have the material stockpiled at Village facilities.

The two concrete culvert pipes exiting the detention basins north of the drainage swale shall be removed and disposed of during the grading and shaping work. This work shall be considered incidental to the grading and shaping pay item.

Basis for Payment: This work will be paid for at the contract unit price per ACRE for GRADING AND SHAPING.

STONE RIP RAP, RR2

This work shall be completed according to Article 281 of the Standard Specifications and the following:

Bedding and filter fabric will be considered incidental to the pay item as described in Chapter 281.

Basis for Payment: This work will be paid for at the contract unit price per SQUARE YARD for STONE RIP RAP, RR2.

PIPE CULVERTS

Description: This work shall be completed according to Sections 542, 550 and 551 of the Standard Specifications for Road and Bridge Construction. Removal and disposal of the existing pipe culverts shall be considered incidental to the pay item.

Basis of Payment: This work will be paid for at the contract unit price per LINEAR FOOT for PIPE CULVERTS, CLASS D, TYPE 1, 12" (ELLIPTICAL), PIPE CULVERTS, CLASS D, TYPE 1, 15" (ELLIPTICAL), and PIPE CULVERTS, CLASS D, TYPE 1, 57"X38" (ELLIPTICAL).

FLARED END SECTIONS

Description: This work shall be completed according to Sections 542, 550, and 551 of the Standard Specifications for Road and Bridge Construction.

Basis of Payment: This work will be paid for at the contract unit price per EACH for METAL END SECTION, 57"X38" (ELLIPTICAL).

HMA PATH, COMPLETE

This work shall be completed according to Articles 351 and 424 of the Standard Specifications and the following:

This line item shall include hot mix asphalt and aggregate base course per the detail included in the plans.

Basis for Payment: This work will be paid for at the contract unit price per SQUARE YARD for HMA PATH, COMPLETE.

6" CONCRETE SIDEWALK, COMPLETE

This work shall be completed according to Articles 351 and 406 of the Standard Specifications and the following:

This line item shall include Portland cement concrete sidewalk and aggregate base course per the detail included in the plans.

Basis for Payment: This work will be paid for at the contract unit price per SQUARE FOOT for 6" CONCRETE SIDEWALK, COMPLETE.

AGGREGATE DRIVEWAY 8", COMPLETE

This item shall conform to Section 401 of the "Standard Specifications for Road and Bridge Construction Illinois", latest edition and as detailed on the plans. As part of this pay item, all existing aggregate driveways which interfere with proposed construction work shall be completely removed as shown on the plans or as directed by the engineer. The removed material shall then be disposed of at an approved offsite location by the contractor. The cost for removal and disposal of said material shall be considered incidental to this pay item. The subgrade shall then be prepared as specified in Section 401. Any damage done to the existing driveway to remain in place shall be repaired or removed and replaced as directed by the engineer. This work shall be paid for at the contract unit price per SQUARE YARD for AGGREGATE DRIVEWAY 8", COMPLETE.

TRENCH EXCAVATION

All remaining trench excavation resulting from water main and storm sewer construction shall be hauled off by contractor. Cost shall be incidental to all sanitary sewer, water main, and storm sewer pipe installation.

REQUIREMENTS FOR SCHEDULED WATER MAIN SHUT DOWN/LINE STOP

- a) The Contractor shall obtain the permission of the Winnebago Public Work Director, or his designee, prior to any water main line stop.
- b) The Contractor shall notify all water customers affected by the water main line stop or shut down at least 24 hours in advance, using forms supplied by the Village of Winnebago.
- c) The Contractor shall notify the Public Works Director (815-985-8635) prior to any water main line stop or shut down and provide the following information (pursuant to Illinois Municipal Code 65 ILCS 5/11-20-10.5):
 - Streets and boundaries of shut down
 - Time of shut down
 - Approximate duration of shut down
 - Number of customers affected
 - If non-residential customers (hospitals, nursing homes, restaurants, etc.) are affected, a count of how many individuals affected will be provided.
- d) The Contractor shall notify the Public Works Director upon completion of repairs and restoration of water service.
- e) The Contractor shall demonstrate, to the satisfaction of the Engineer, that water service at each residence or business affected by the shutdown has been restored once the water service line has been reconnected.
- f) The Contractor shall meet with Public Works personnel at least five (5) days prior to construction to coordinate exercising valves and determining line stop patterns during construction. The shut down shall be allowed to proceed only after the Public Works representative has determined that the required valves are functioning. The

Contractor shall be responsible for turning valves on and off during construction and accepts the responsibility for any and all damage to Village property during construction.

- g) All costs of work associated with scheduled water main line stop/shut down shall be included in the individual bid items and no additional compensation shall be allowed.

REQUIREMENTS FOR UNSCHEDULED (EMERGENCY) WATER MAIN VALVE SHUT OFF

- a) In the event the Contractor must perform an unscheduled water main valve shut off; the Contractor shall notify the Public Works Director (815-985-8635) as soon as possible.
- b) The Contractor shall notify all water customers affected by the water main valve shut off and the need to boil water as soon as possible, using forms supplied by the Village.
- c) The Contractor shall provide the following information (pursuant to Illinois Municipal Code 65 ILCS 5/11-20-10.5):
- Streets and boundaries of shut down
 - Time of shut down
 - Approximate duration of shut down
 - Number of customers affected
 - If non-residential customers (hospitals, nursing homes, restaurants, etc.) are affected, a count of how many individuals affected will be provided.
- d) If the Contractor is involved in repairs, the Contractor shall notify the Public Works Director upon completion of repairs when water service has been restored

BACTERIOLOGICAL SAMPLING

Bacteriological sampling shall be collected from the pipeline following disinfection and final flushing. Samples shall be delivered to the Village of Winnebago Public Works Director for proper lab testing coordination. Samples must be submitted in Laboratory approved bottles that may be obtained from the Public Works Department. A Coliform Analysis Report shall be submitted with each sample (also available from the Public Works Department) and shall indicate the chlorine residual (either free or total) at the time the sample was collected. Failure to record the residual shall result in the rejection of the sample. If the sample shows the presence of coliform organisms, the contractor shall be notified (contact information MUST appear on the bacteriological form) and repeat the disinfection procedure. On re-sampling, two (2) consecutively passing samples collected on successive days (a minimum of 24 hours between sampling) shall be required.

If valved sections of the pipeline are disinfected separately, each section will be considered a separate pipeline for disinfection, flushing and sampling.

The Village of Winnebago will retain a copy of all bacteriological laboratory reports and submit results to the Illinois EPA as required. A copy of the bacteriological report shall also be sent to the Engineer and the Contractor. This work will be incidental to the contract and will not be considered for further payment.

REMOVE VALVE AND VALVE BOX, COMPLETE

This work shall conform to Section 605 of the Standard Specifications and the details and standards shown in the plans.

Existing valve box shall be removed and existing water mains saw cut, capped and/or plugged in accordance with the plans; at the locations shown on the plans and the Standard Specification for Water and Sewer Main Construction in Illinois, latest edition and the requirements of the Engineer. This item shall consist of furnishing and installing all material and providing all labor necessary to excavate, remove valve and valve box, cut and plug the existing water main, and trench backfill. All work shall be in accordance with IDOT Specifications. This item will also include removal and proper disposal of all material required to complete the work.

The Contractor shall remove the frame and cover and deliver to Village facilities.

All fittings shall be furnished and installed in accordance with the specifications and the requirements of the Engineer. The contractor shall contact the inspector or project manager for approval of the removal, type and style of fittings required to complete the removal and installation prior to bidding or placing.

Method of Measurement. Measurement for this work will be per each.

Basis of Payment. This work will be paid for at the contract unit price per EACH for REMOVE VALVE AND VALVE BOX, COMPLETE.

REMOVE FIRE HYDRANT, COMPLETE

Existing fire hydrant shall be removed and existing water mains cut and plugged in accordance with the plans; at the locations shown on the plans, in accordance to the Standard Specification for Water and Sewer Main Construction in Illinois, latest edition, and the requirements of the Engineer. This item shall consist of furnishing and installing all material and providing all labor necessary to remove hydrant and cut and plug the existing water main with cement and/or remove tee in existing main and reconnect when applicable.

This item will also include removal and proper disposal of all material required to complete the work. The excavated hole shall be properly backfilled and shall include trench backfill where required. This item shall also include temporary or permanent surface restoration as required.

All fittings shall be furnished and installed in accordance with the specifications and the requirements of the Engineer. The contractor shall contact the inspector or project manager for approval of the removal, type and style of fittings required to complete installation prior to bidding or placing.

The contractor shall remove the hydrant and deliver to the Village facilities.

Method of Measurement. Measurement for this work will be per each.

Basis of Payment. This work will be paid for at the contract unit price per EACH for REMOVE FIRE HYDRANT, COMPLETE.

PVC WATER MAIN 10"

Description: This work shall consist of furnishing and installing polyvinyl chloride water main pipe. The water main pipe shall be installed in accordance with the Standard Specifications for Water and Sewer Construction in Illinois - Current Edition and Village of Winnebago Standards, including separation requirements from sewers, except as modified by these special provisions.

All water mains shall conform to AWWA Standard C909, SDR 18 Class 150 AWWA Standard C900-07, or SDR 14 AWWA Standard C900-07. Water mains shall also be constructed of polyvinyl chloride pipe pressure rated to 235 psi or greater for all sizes. All water main piping and fittings shall be American made. Alternates to the below listed products will only be allowed upon the review and approval by the Director of Public Works. Pipe and fitting shop drawings shall be submitted to the Engineer for review.

Tracer wire shall be installed with all water main. Wire shall be a magnetic detectable conductor (minimum of 12 gauge) and include a clear, double coated vinyl or approved equal. Tracer wire access boxes shall be used at all hydrants and curb stops.

Pipe-to-pipe joints on straight runs of main shall be push-on type. All joints on fittings, valves, and bends, shall be mechanical type with ductile iron retainer glands. To ensure electrical conductivity, brass wedges must be used with push on joints in accordance with Section 41- 2.05C of the Standard Specifications for Sewer and Water in Illinois. All mechanical joints shall be tightened to the manufacturer's specification using a torque stick.

Pipe fittings shall be ductile iron compact fittings, rated at 350 PSI, and fully comply with the AWWA Standard C153 (ANSI Standard A21.53).

All fittings shall be cement mortar lined in accordance with the provisions of AWWA Standard C104 (ANSI Standard A21.4).

Fitting joints shall be mechanical type, fully complying with the provisions of AWWA Standard C111 (ANSI Standard A21.11). Fittings shall be furnished with ductile iron retainer glands and all joint accessories. All mechanical joint connections must be furnished with EBAA Iron and Cor-Ten Steel T-Head bolts and nuts.

Locking gaskets will be required when water main is encased. This will be considered incidental to the cost of water main.

The parameters involved in the construction of thrust blocks shall include pipe size, maximum system pressure, angle of the bend, (or the configuration of the fitting), and the horizontal bearing strength of the soil. Bearing surface should, where possible, be placed against undisturbed soil. Where it is not possible, the fill between the bearing surface and undisturbed soil must be compacted to at least 90% Standard Proctor density.

Thrust blocks shall be used wherever there is a change in horizontal direction, and on dead ends. On vertical down and vertical up bends, restrained glands are required. Thrust block size shall be as indicated in these plans.

Thrust blocks shall be P.C. concrete, a minimum twelve (12) inches thick, formed between the pipe, or fitting and the undisturbed trench wall, and shall be, anchored in such a manner that the pipe and fitting joints will be accessible for repairs.

Trenches shall be excavated to a depth sufficient to provide a minimum cover of six (6) feet, and a maximum cover of eight (8) feet from the top of the pipe to the finished ground surface. Trench depth shall be increased where necessary so that the main is installed on a uniform gradient despite minor local variations in surface grade. Any pipe that does not have a minimum six (6) foot of cover, or in locations indicated on the plans, will have to be protected with foam insulation wrap at the discretion of the Engineer or Village of Winnebago Public Works Department. This work shall be paid for per FOOT for WATER MAIN PROTECTION.

All trenches shall be backfilled, from the bottom of the trench to the centerline of the pipe, with FA-6 granular backfill. The backfill material shall be deposited in the trench for its full width on each side of the pipe simultaneously, distributed evenly by hand, and compacted by tamping.

All trenches shall be backfilled, from the centerline of the pipe to a depth of one (1) foot above the top of the pipe, with FA-6 granular backfill compacted by tamping. The Contractor shall use special care in placing this portion of the backfill so as to avoid damaging or moving the pipes.

Pipe to be located under or within two feet of pavement shall be backfilled from one foot above the top of the pipe to sub-grade elevation with trench backfill. The trench backfill shall be compacted in 6-inch layers and compacted to not less than ninety-five (95) percent of standard laboratory density. At other locations, the trench shall be backfilled from one (1) foot above the pipe to the finished grade, with native material, or other materials approved by the Village, in twelve (12) inch layers compacted by tamping.

Restrained glands shall be used on all water mains, hydrant and large service branches, which have vertical down and vertical up bends and any intermediate joints between those bends. Joint restraint will also be required on at least two (2) full pipe lengths of the horizontal run both sides of the bend.

On horizontal bends; thrust blocks shall be constructed of concrete to the dimensions indicated in the plans and shall bear against the pipe. On bridges or other special situations requiring joint restraint, the method of restraint shall be determined by the Village of Winnebago.

Thrust blocks and fittings are included in the cost of the PVC Water Main and will not be paid for separately. These items are considered incidental to the construction of the water main.

Hydrant installations including the branch end of the tee, as well as the pressure side of distribution valves used at main dead ends, will also require the use of restrained glands.

Restrained glands shall be furnished factory coated with bituminous material meeting the requirements for outside coatings of AWWA Standard C151 (ANSI Standard A21.51). Restrained glands shall be designed for use in place of standard glands for AWWA Standard C111 (ANSI Standard A21.11) mechanical joints. The approved restrained gland type shall be:

- a) Individually activated wedge type gland (e.g., Megalug style; Uniflange style) shall be used for restraint due to its increased resistance to joint separation as pressure or external forces increase and its ability to provide joint resiliency and deflection. The wedge type gland shall have a working pressure up to three hundred fifty (350) psi. in main sizes through sixteen (16) inches, and two hundred fifty (250) psi. in larger sizes, along with a minimum safety factor of 2:1. The wedges shall be ductile iron heat treated to a minimum hardness of 370 BHN. It shall also have individual activated wedge screws with specially engineered heads designed to break off when desired torque is reached, leaving a hex head in case future removal is required.

After the pipe has been laid and partly backfilled as specified, all newly laid pipe or any valved sections of it shall, unless otherwise expressly specified, be subjected to a hydrostatic pressure equal to fifty (50) percent more than the operating pressure at the lowest elevation of the pipe section, but not to exceed the pressure rating of the type of pipe specified. The duration of each pressure test shall be for a period of not less than one hour and not more than six hours. The basic provisions of AWWA C-600 and C-603 shall be applicable.

Each valved section of pipe shall be, slowly filled with water and the specified test pressure applied. Before applying the specified test pressure, all air shall be expelled completely from the pipe, valves and hydrants. If permanent air vents are not specified, the contractor shall install corporation stops at all points located at a higher elevation than the immediately adjacent sections of main so that air can be expelled as the line is filled with water. After air has been expelled, corporation stops shall be closed and test pressure applied.

After test pressure has been reached and the system allowed to stabilize, not more than plus or minus five pounds per square inch gauge (+or- 5 PSIG) deviation will be allowed for the duration of the test.

All exposed pipe, fittings, valves, hydrants and joints shall be carefully examined. All joints showing visible leaks shall be repaired by the contractor. Any cracked or defective pipe, fittings, valves, or hydrants discovered in consequence of the pressure test shall be removed and replaced by the contractor. The test shall be repeated until satisfactory to the Village.

A leakage test shall be conducted if the pressure test cannot be satisfactorily completed. Leakage shall be defined as the quantity of water that must be supplied into the newly laid pipe, or any valved sections thereof, to maintain pressure within five pounds per square inch (5 PSI). Leakage shall not be measured by a drop-in pressure in a test section over a period of time.

No pipe installation will be, accepted if the leakage is greater than specified in AWWA Standard C600-87.

After the backfill has been completely made, the contractor shall disinfect the pipeline in compliance with the provisions of AWWA Standard C651 and the provisions herein specified.

Prior to disinfection, the pipeline or valved section thereof, shall be flushed at a minimum flow velocity of two and one-half (2-1/2) feet per second. Following full development of flow, flushing shall continue until the discharge runs clear or until the Village directs flushing operations to cease.

In no event shall the duration of flushing be less than ten (10) minutes. Water used in flushing shall be introduced into the pipeline at a point of connection with the existing distribution system designated by the Village.

After flushing, the water main shall be disinfected in accordance with AWWA Standard C651. Water used in disinfecting the pipeline shall be introduced into the pipeline through the pressure test connection made under the provisions of Section 12.28 Hydrostatic Testing. Bacteriological sampling shall be collected from the pipeline following disinfection and final flushing. Samples shall be delivered to the Village of Winnebago (108 W. Main Street) for lab delivery. Samples must be submitted in Laboratory approved bottles that may be obtained from the Public Works Department. A Coliform Analysis

Report shall be submitted with each sample (also available from the Public Works Department) and shall indicate the chlorine residual (either free or total) at the time the sample was collected. Failure to record the residual shall result in the rejection of the sample. If the sample shows the presence of coliform organisms, the contractor shall be notified (contact information MUST appear on the bacteriological form) and repeat the disinfection procedure. On re-sampling, two (2) consecutively passing samples collected on successive days (a minimum of 24 hours between sampling) shall be required.

If valved sections of the pipeline are disinfected separately, each section will be considered a separate pipeline for disinfection, flushing and sampling.

The Village of Winnebago will retain a copy of all bacteriological laboratory reports and submit results to the Illinois EPA as required. A copy of the bacteriological report shall also be sent to the Engineer and the Contractor. This work will be incidental to the contract and will not be considered for further payment.

Where acceptable material is excavated for backfilling trenches it will be allowed to be reused. Where fine aggregate backfill must be brought to the job trench backfill will not be paid for separately but the cost must be included in the unit cost of the water main.

Basis of Payment: This work will be paid for at the contract unit price bid per LINEAR FOOT including all fittings such as tees, bends, MJ solid sleeves, locking gaskets, mechanical joints, and restraining glands. Blocking, tracer wire, backfill, and pipe bedding will also be included for PVC WATER MAIN 10".

GATE VALVE AND VALVE BOX COMPLETE, 10"

Description: This work shall consist of furnishing and installing a gate valve of the size indicated, a valve box with a lid and associated appurtenances. All materials shall be American made. Alternates to the below listed products will only be allowed upon the review and approval by the Director of Public Works. Gate valve and valve box shop drawings shall be submitted to the Engineer for review.

Access to the valve shall be through a cast iron valve box. The valve box lid shall be set flush with the grade.

A cast iron valve box shall be provided for every valve. Valve boxes shall be Tyler/Union Foundry 664S cast iron two piece box with rubber valve box adaptor (manufactured by Adapter, Inc.), with "WATER" imprinted on top cover with a debris cap and with an Adapter II by Adapter Inc. installed. The valve-operating nut shall be readily accessible for operation through the valve box opening, which shall be set flush with the finished surface.

Valves shall be Mueller A-2360-20 and conform to the latest version of AWWA Standard C-509 covering Resilient Seated gate Valves for Water Supply Service.

The valves shall have a cast iron body, bonnet and wedge. The wedge shall be totally encapsulated with rubber.

The sealing rubber shall be permanently bonded to the wedge to meet ASTM tests for rubber metal bond ATSM D249.

Valves shall be supplied with O-Ring seals at all joints (no gaskets are used in the valve design).

The valves shall be either non-rising or rising stem, open by turning left and provided with 2" square operating nut or a handwheel with the "Open" and an arrow cast in the metal to indicate the direction to open.

Stems for NRS assemblies shall be cast bronze with integral collars in full compliance with AWWA. OS&Y (rising stems) shall be of bronze. All stems shall operate with bronze stem nuts, independent of stem (in NRS valves). NRS stems shall have (2) O-Rings located above thrust collar and (1) O-Ring below. All stem O-Rings shall be replaceable with valve fully opened and subjected to full pressure. The NRS stems shall also have (2) low torque thrust bearings located above and below stem collar to reduce friction during operation.

Waterway shall be smooth, unobstructed and free of all pockets, cavities and depressions in the seat area. Valves shall accept a full size tapping cutter.

The body, bonnet and stuffing plate shall be coated with fusion bonded epoxy, both interior and exterior on body and bonnet. Epoxy shall be applied in accordance with AWWA C550 and be NSF61 and NSF372 certified. PIV plates shall be painted black.

Each valve shall have a maker's name, pressure rating, and year in which it was manufactured cast in the body. Prior to shipment from the factory, each valve shall be tested by hydrostatic pressure equal to requirements of both AWWA and UL/FM.

All internal parts shall be accessible without removing the body from the line.

Basis of Payment: This work will be paid for at the contract unit bid price of EACH for GATE VALVE AND VALVE BOX COMPLETE, 10".

FIRE HYDRANT WITH 6" VALVE AND VALVE BOX, COMPLETE

Description: This work shall consist of furnishing and installing fire hydrants and the associated piping, valve and valve box, blocking, backfill, sufficient lead to make connection, connection to main, and fittings. The piping shall conform to the specifications in this document for Water Main. All materials shall be American made. Alternates to the below listed products will only be allowed upon the review and approval by the Director of Public Works. Fire hydrant shop drawings shall be submitted to the Engineer for review.

All hydrants shall stand plumb and have their nozzles parallel or at right angles to the curb, with the pumper nozzle facing the curb. No portion of the pumper hose nozzle cap shall be less than twenty-four (24) inches from the gutter face of the curb, driveway or other vehicular traffic surface. Hydrants shall be set with indicated bury line to finished grade, and with centerline of all nozzles at least eighteen (18) inches, but not more than twenty-four (24) inches above finish grade. Break-a-way flange shall be installed not less than two (2) inches, or more than six (6) inches above finished grade.

Fire hydrants shall be Mueller Company Super Centurion A423 and fully comply with all of the general provisions of the latest revision of AWWA Standard C502 and with the special requirements hereinafter provided.

Each hydrant shall be connected to the main by a six (6) inch diameter branch line controlled by an independent six (6) inch gate valve placed eighteen (18) inches in front of the hydrant. Restrained joints shall be used on the tee branch, both sides of the auxiliary control valve, and the hydrant shoe.

A cast iron valve box shall be provided for every valve. The valve-operating nut shall be readily accessible for operation through the valve box opening, which shall be set flush with the finished surface.

When hydrant valve vaults are required they shall be constructed of precast concrete, or constructed in the manner previously specified under gate valve vaults. The neck of the vault shall be drawn toward the main where a manhole rim and cover shall be installed. The cone slot on a precast concrete vault shall be blocked, bricked, and mortared around the hydrant barrel to prevent both barrel movement and soil penetration.

Hydrants branches installations shall incorporate an anchor tee, hydrant branch valve, swivel anchor coupling (as manufactured by Tyler/Union Foundry), and hydrant.

The main valve shall be five and one-quarter (5-1/4) inches in size, closing with water pressure. The upper valve plate and seat ring shall both be of solid, one-piece bronze construction, and the seat ring shall be attached to the hydrant shoe by threading into a bronze fitting. The zinc content in the bronze shall not exceed sixteen (16) percent. The main valve assembly shall include provisions to restrain movement of the main valve and stem in any direction other than parallel to the axis of the stem.

Lower barrel length shall be based on a nominal six (6) foot bury (trench) depth. Barrel and stem extensions shall be available in six (6) inch lengths and longer lengths in increments of six inches. The manufacture's name, size of main valve opening, and year of manufacture shall be cast in the upper barrel of the hydrant.

The outlet connections shall be: a) One (1) five (5) inch pumper nozzle, 6.260 inch ODM, 4 TPI (NHT); b) Two (2) two and one-half (2-1/2) inch hose nozzles, 3.0686 inch ODM, 7-1/2 TPI (NHT). All connections shall include the appropriately sized Harrington Integral Hydrant Storz fittings.

Hydrant shall have a Harrington Integral Hydrant Storz nozzle installed on hydrants during assembly and shall meet or exceed the requirements of AWWA C502 regarding material and pressure testing. The Storz nozzle shall have a brass metal face seal and hard anodized aluminum Storz ramps and lugs. The aluminum's finish shall be hardcoat anodized to Mil-A-8625f, Type 3, dark gray. The adapter shall be made of forged or extruded 6061-T6 aluminum. The blind cap shall have hard anodized aluminum Storz ramps and lugs, made of forged or extruded 6061-T6 aluminum. The center cap shall be equipped with a suction seal. The cap shall be connected to the adapter of the hydrant with a 0.15" vinyl coated aircraft cable.

Nozzles shall be fastened mechanically into the upper barrel and have the Storz caps fastened by aircraft cable to the upper barrel. The centerline of all nozzles shall be no less than eighteen (18) inches, but not more than twenty-four (24) inches above the ground line bury mark on the lower barrel of the hydrant.

Hydrant operating nut shall be pentagonal and not less than one and a half (1.5) inches in height. The hydrant-operating nut shall turn left (counter-clockwise) to open.

Hydrants shall be of the "break-away" flange and stem coupling design. The breakaway design shall allow for three hundred sixty (360) degree facing nozzles by infinite degrees. Safety stem coupling shall be of frangible design, which provides for a clean break or tear into halves upon impact. Stem coupling shall be secured to the stem with stainless steel pins and fasteners.

Fire hydrants, shall have the upper barrel, above the ground line, painted a minimum of one (1) coat of Red Industrial grade Iron Oxide Primer and two (2) finish coats of Traffic Red Industrial grade oil base Alkyd Enamel. Painting and coatings shall be in accordance with AWWA Standard C502.

Hydrant Lubrication - Each threaded nozzle and cap shall be coated with a premium, synthetic, food grade, non-drying thread sealant and anti-seize compound, approved by the specific hydrant manufacturer, immediately before or after installation.

Hydrant installations including the branch end of the tee, as well as the pressure side of distribution valves used at main dead ends, will require the use of restrained glands. Restrained glands shall be furnished factory coated with bituminous material meeting the requirements for outside coatings of AWWA Standard C151 (ANSI Standard A21.51). Restrained glands shall be cast from ductile iron and machined to dimensions and/or tolerances hereinafter specified either directly or by reference.

Approved Hydrants - Only the following manufacturers and models are accepted by the Village of Winnebago.

1. Mueller Super Centurion A-423

Basis of Payment: This work will be paid for at the contract unit bid price for EACH for FIRE HYDRANT WITH 6" VALVE AND VALVE BOX, COMPLETE.

CONNECT TO EXISTING WATER MAIN COMPLETE 6"
CONNECT TO EXISTING WATER MAIN COMPLETE 8"
CONNECT TO EXISTING WATER MAIN COMPLETE 10"

This work shall consist of furnishing and installing all material and providing all labor necessary to connect the proposed water main to the existing water system.

All workmanship and materials shall be approved by the Village of Winnebago. All materials shall be American made.

The cost of the trench backfill, where applicable, shall be in the contract unit price bid for this item.

Method of Measurement: Measurement for this work will be per EACH in place for the various size water mains.

Basis of Payment: This work will be paid for at the contract unit price per EACH for CONNECT TO EXISTING WATER MAIN COMPLETE 6", CONNECT TO EXISTING WATER MAIN COMPLETE 8" and CONNECT TO EXISTING WATER MAIN COMPLETE 10" which price shall include any labor, materials, and trench backfill necessary for a complete installation.

WATER MAIN PROTECTION, 20"

This work shall consist of the installation of PVC casing pipe in the locations indication on the plans as well as in the Schedule of Quantities. Water main protection materials shall be submitted to the Engineer for review. In locations where the required vertical and/or horizontal separation of utilities cannot be met, PVC casing shall be used to sleeve the proposed utility.

Unless authorized, all casing pipe installation shall be done by means of open cut trench installation.

The casing pipe diameter shown on the plans and described in these specifications is the minimum size acceptable under this contract. At his sole expense, the Contractor may use a PVC casing pipe of a larger-than-specified diameter if approved in advance by the Engineer.

This work shall include end seals and spacers, as needed. All material shall be American made.

Method of Measurement: Measurement for this work will be on a per FOOT basis.

Basis of Payment: This work will be paid for at the contract unit price per LINEAR FOOT for WATER MAIN PROTECTION, 20" which price shall include any labor, materials, and trench backfill necessary for a complete installation.

WATER MAIN PIPE BEDDING, BACKFILL, AND COMPACTION

Pipe Bedding: Pipe bedding for PVC pipe shall be Class IA per ASTM Standard D2321. The trench bottom shall be bedded with six inches (6") (minimum) crushed stone foundation. Crushed stone shall be placed to a minimum of twelve inches (12") above the top of the pipe, per the bedding detail. Bedding shall be graded such that it precludes the migration of trench wall material into the bedding; the Village shall approve this bedding material after the characteristics of the trench are determined.

Granular Foundation: In the event that the trench bottom is unstable as determined by the Village, the Contractor shall undercut the trench as required and furnish granular foundation material. The foundation material shall be a coarse aggregate material of a gradation distribution that will inhibit the migration of the bedding material, trench bottoms and walls. In the event the water table is above the bottom of the pipe bedding and the trench bottom is unstable or unsuitable, a granular foundation meeting I.D.O.T. specifications of CA-5, CA-3 or "A" stone shall be installed as necessary below the granular bedding material.

Backfill and Compaction: The Contractor shall use approved Select Trench Backfill to the level of the base under all roads, shoulders, sidewalks, driveways, parking lots or pavements of any kind and beyond such pavements as set forth in Technical Specifications T.S. 2:4-c. Select Trench Backfill under said structures shall be mechanically compacted in six inch (6") to eighteen inch (18") loose lifts to the subgrade elevation of the road shoulder, sidewalk, driveway, parking lot or pavement. The materials and compaction shall be in accordance with I.D.O.T. Standard Specifications for Road and Bridge Construction, current edition, including Section 208 and 550.07, Method 1. All Select Trench Backfill shall be compacted to ninety-five percent (95%) of standard Proctor density; all other backfill shall be compacted to ninety percent (90%) (minimum) of standard Proctor density. The Contractor shall repair any settlement which occurs within a period of the three (3) years after completion of the project.

All spoil shall be properly disposed of by Contractor at no additional cost to the Village. The Contractor shall exercise care not to disturb any existing utilities during backfilling and compaction operations.

The Contractor shall furnish a backhoe and operator during the testing of the backfill placed during construction. All compaction tests will be performed at the Contractor's expense by an approved, independent geotechnical testing firm. If the tests do not meet the compaction requirement specified above, the area shall be both recompacted and retested at the Contractor's expense until the test requirements are met.

For granular backfill, a vibratory plate, vibratory roller, or other approved equipment-mounted compaction equipment must be used by the Contractor to compact the backfill in lifts not to exceed eighteen inches (18") unless the Contractor submits a letter to the Project Engineer from the compactor manufacturer before the start of construction, recommending the lifts to be used and specifying the type, model and the maximum lift for the piece of equipment proposed to be used. Upon review, the Village will advise the Contractor of the soil depth or lifts to be used in backfilling. Water-jetting, ponding or flooding will not be permitted as a means of trench compaction on this project except around manholes where jetting may be used.

For backfill, if initial tests indicate compaction requirements are being met, no further lift testing will be required unless method, equipment or material change. The final lift forming the trench backfill must be tested.

The Contractor shall use reasonable care while backfilling over the sewer. No materials such as rocks or boulders which could damage the pipe shall be allowed to be dropped directly on the sewer pipe. If these materials are present in the backfill, the Contractor shall place two feet (2') of approved granular material over the pipe before backfilling. The cost of this additional granular material shall be considered incidental to the unit price bid for the pipe.

The Contractor shall restore all disturbed areas to near original contour and state, graded and raked to a neat and well-drained condition. All disturbed non-tilled areas shall have the topsoil layer stockpiled separately and replaced to the depth prior to construction. Said areas shall be graded and raked or seeded as noted in specifications after approval of seed bed by the Village. Any damage to pavement, driveways, bituminous surfacing, drainage structures, sod, structures, etc., shall be replaced or repaired to equal or better condition or as required by easement agreements. In tilled areas the Contractor shall segregate and stockpile separately different strata of the soil profile and backfill any trench to the soil profile that existed prior to construction. The topsoil layer in tilled areas shall be disced to a minimum depth of eight inches (8").

In trenches not requiring Select Trench Backfill, no excavated material larger than eight inches (8") in any dimension shall be used in the backfill.

Basis of Payment: Select Trench Backfill, Compaction and Testing as well as payment for other Backfill, Bedding, and Granular Foundation shall be included in unit price per lineal foot of Water Main installed (various sizes).

DEWATERING

It shall be the responsibility of the Contractor to control that groundwater and divert flow during construction in order to keep the construction zone free of water. Contractor shall use all means at his disposal to always maintain a dry trench to the satisfaction of the Village and the pertinent roadway authority.

The Contractor is responsible for maintaining water service for any residential, commercial or industrial wells that he dries, and shall be liable for damage to any wells or public and private water systems. Ground water will not be allowed to be pumped on existing ground surfaces or pavements where it may cause a traffic nuisance, or into existing sanitary sewers; it shall be discharged to a point acceptable to the Village and the pertinent roadway authority with all erosion control specifications and permit requirements taken into account.

Dewatering well points shall require permits issued by the Winnebago County Department of Public Health (Health Department). The installation, operation and removal of well points shall conform to the Health Department requirements. The Health Department shall be notified prior to installing dewatering wells and prior to abandonment of wells so that they may be present if they desire.

Any permits required to perform dewatering work on this project shall be secured by the Contractor; it shall be his responsibility to provide any bonds, insurances, guarantees, etc. as required by said permit. Abandonment of dewatering facilities shall be performed in accordance with pertinent State and County requirements.

Details of the proposed use of generators must be described in the dewatering discharge plan and are subject to Village approval. If generators are required to run on a twenty-four (24) hour basis, the device(s) shall be equipped with an adequate muffler and be properly maintained to prevent excessive noise.

The Contractor will be required to determine and monitor the pavement elevations before and during work if a dewatering system is installed.

Dewatering discharge must be into a silt containment bag with properly engineered anionic polymer and fabric pore size. Under no circumstances shall dewatering discharge be allowed to flow directly into waterway.

A dewatering discharge plan shall be submitted to the Village for approval. The dewatering pipe discharge shall be inspected daily by the Contractor to verify compliance with erosion control standards. Any stabilization of discharge area (Rip-Rap, silt fence, etc.) shall be considered incidental.

Basis of Payment: Payment for Dewatering, complete, shall be included in the unit price bid per lineal foot of Water Main (various types and sizes).

WATER SERVICE COMPLETE (SHORT), 1"
WATER SERVICE COMPLETE (LONG), 1"

This work shall be furnished and installed in accordance to Village of Winnebago Standards and the requirements of the Engineer. All products shall be American made. Alternates to the below listed products will only be allowed upon the review and approval by the Director of Public Works.

This pay item shall include the excavation, furnishing and installation of new water service and the necessary appurtenances to construct a water service, disconnection and reconnection of old service, removal of old b-box, and backfilling. The typical water service consists of a corporation stop valve, SDR9 HDPE tubing, a curb stop valve, buffalo box, SDR9 HDPE tubing, and a mechanical brass union to connect to the existing water service line. Trench backfill, as necessary per IDOT Standard Specifications, will be considered incidental.

SDR9 HDPE tubing shall be pressure rated to 200 psi and conform to AWWA C901

Corporation stops shall be H15008 Mueller for 1" services and H15013 for 1-1/2" – 2" services.

Curb stops shall be H15155 Mueller for 1" services and B25155 for 1-1/2" – 2" services.

Curb extension boxes shall be 6" Mueller H10300 and shall be placed on the right of way line.

Tapping saddles shall be Smith Blair #372 for 3/4"-2" services.

Should C900 water main be selected for use on the project, stainless steel service saddles shall be required for each service connection. These saddles shall be TPS Triple Tap or equal as approved by the Village Public Works Director. The cost of these service saddles will be considered incidental to the water service complete pay item.

Tracer wire shall be installed with all service lines. Wire shall be a magnetic detectable conductor (minimum of 12 gauge) and include a clear, double coated vinyl or approved equal. Tracer wire access boxes shall be used at all hydrants and curb stops. Tracer wire will be considered incidental.

Disconnection and abandonment of the existing water services and disconnection and reconnection of existing sewer services shall be included in this pay item. No additional payments will be made.

Combination curb & gutter shall not be removed during water service installation and all precautions must be made to keep the existing curb & gutter intact and from settling. If damage or settlement occurs to the curb & gutter it shall be replaced at the contractor's expense. No additional payment will be made.

Please note, water services to vacant lots must be discussed with inspector or engineer before installation.

All water services are required to be installed/tapped by a licensed plumber and inspected by the Village of Winnebago prior to backfilling. A crimping tool shall not be used to temporarily stop a water service, except in an emergency. If a crimping tool is used to stop a service line, the final repair shall be as directed by the Engineer, but in no case shall uncrimping the line be allowed.

Basis of Payment. This work will be paid for at the contract unit price per EACH for WATER SERVICE COMPLETE (SHORT), 1" and WATER SERVICE COMPLETE (LONG), 1".

WATER MAIN LINE STOP 6"

This work shall consist of furnishing and installing a water stop for the existing six inch (6") water main. This item will only be used if a workable shutdown cannot be maintained and must be deemed necessary and approved by the engineer.

The contractor shall tap the existing water main at the locations indicated on the plans or by the engineer and plug the existing water main with a rubber bladder or flap type to isolate the existing main during construction of water main abandonment and/or improvements.

Prior to placing the line stop, the water main to which the line stop sleeve will be attached will be disinfected with chlorine. The line stop sleeve shall be disinfected with chlorine. Furthermore, the line stop plug, wedge, or folding hinge shall be disinfected with chlorine prior to inserting the plug into the live water main.

Contractor shall demonstrate the success of a line stop prior to removing the bolts or wedges from down gradient mechanical fittings. Nuts may be partially removed and water under pressure released at a water main fitting. If flow from the fitting remains constant or indicates qualities of being under pressure, the Contractor shall reset or reconstruct line stop at their cost.

The Engineer shall observe the Contractor's demonstration of line stop success in removing flow and pressure for the area of water main to be exposed and worked on.

Please note, this bid item is not anticipated to be used and has been included for purposes of obtaining a unit price should these items be required by field conditions.

Basis of Payment. This work will be paid for at the contract unit price per EACH for WATER MAIN LINE STOP 6".

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SCHEDULE OF QUANTITIES - DRIVEWAYS

LOCATION		NOTE	PAVEMENT REMOVAL	HMA SURFACE COURSE, IL-9.5, MIX "C", N50	PCC DRIVEWAY PAVEMENT, 6"	AGG. DRIVEWAY	AGG. BASE COURSE
STATION	ADDRESS		AREA (SY)	TONS	AREA (SY)	AREA (SY)	TONS
3+05 RT	308 E. SOPER	RRWRD	9.0	1.0			4.5
3+15 RT	308 E. SOPER	RRWRD	10.0		10.0		5.0
13+90 RT	202 ELIDA	RRWRD	11.0	1.2			5.5
19+05 RT	201 CHURCH	RRWRD	9.0		9.0		4.5
26+90 RT	403/405 SOPER	RRWRD	15.0	1.7			7.5
507+82 LT	402 E. SOPER	VOW	25.0	2.8			12.5
508+28 LT	404 E. SOPER	VOW	47.0	5.3			23.5
28+25 RT	407 E. SOPER	RRWRD	6.0	0.7			3.0
509+24 LT	406 E. SOPER	VOW	45.0	5.0			22.5
510+13 LT	408 E. SOPER	VOW	45.0		45.0		11.3
511+12 LT	502 E. SOPER	VOW	54.0	6.0			27.0
511+97 LT	504 E. SOPER	VOW	48.0	5.4			24.0
512+87 LT	506 E. SOPER	VOW	47.0	5.3			23.5
514+16 LT	508 E. SOPER	VOW	40.0	4.5			20.0
515+06 LT	602 E. SOPER	VOW	46.0	5.2			23.0
35+00 RT	605 E. SOPER	RRWRD	12.0	1.3			6.0
515+98 LT	604 E. SOPER	VOW	47.0	5.3			23.5
516+90 LT	606 E. SOPER	VOW	48.0	5.4			24.0
517+28 LT	702 E. SOPER	VOW	49.0	5.5			24.5
518+72 LT	704 E. SOPER	VOW	44.0	4.9			22.0
602+58 LT	209 WESTFIELD	VOW	28.0	3.1			14.0
603+16 LT	207 WESTFIELD	VOW	23.0	2.6			11.5
603+88 LT	205 WESTFIELD	VOW				36.0	
605+22 LT	203 WESTFIELD	VOW	32.0	3.6			16.0
605+43 LT	203 WESTFIELD	VOW				27.0	
605+97 LT	LIFT STATION	VOW	31.0	3.5			15.5
608+46 LT	103 WESTFIELD	VOW	38.0	4.3			19.0
609+81 LT	101 WESTFIELD	VOW				31.0	
		TOTALS:	809	83.6	64.0	94.0	393.3
				*ASSUMES 112 LB/SY/INCH			*ASSUMES 125 LB/SY/INCH

SCHEDULE OF QUANTITIES - ROADWAY ITEMS

STATION OR LOCATION		NOTE	PAVEMENT REMOVAL	AGGREGATE BASE COURSE, TYPE B				HMA BINDER COURSE, IL-19.0, MIX "C", N50			HMA SURF. REM., 2"		HMA SURFACE COURSE, IL-9.5, MIX "C", N50		
FROM	TO		AREA (SY)	12" AREA (SY)	3" AREA (SY)	TONS	THICKNESS (INCH)	AREA (SY)	TONS	THICKNESS (INCH)	AREA (SY)	THICKNESS (INCH)	AREA (SY)	TONS	
W. LIMITS	8+51	RRWRD	2138.0	864.0	1274.0	886.9	2.25	2138.0	269.4						
851+00	12+40	RRWRD	618.0	618.0		463.5	2.25	618.0	77.9	2.0	940.0	2.0	1558.0	174.5	
12+40	13+41	RRWRD	114.0	114.0		85.5	6.25	114.0	39.9	2.0	610.0	2.0	610.0	68.3	
13+41	39+37	RRWRD	2970.0	2970.0		2227.5	2.25	2970.0	374.2	2.0	3376.0	2.0	6328.0	708.7	
S. SEWARD ST		RRWRD								2.0	59.0	2.0	59.0	6.6	
S. CHURCH ST		RRWRD								2.0	54.0	2.0	54.0	6.0	
DAVID DR		RRWRD								2.0	150.0	2.0	150.0	16.8	
CRANE DR		RRWRD								2.0	170.0	2.0	170.0	19.0	
TEAL DR		RRWRD								2.0	107.0	2.0	107.0	12.0	
MALLARD DR		VOW	62.0	62.0		47.0	2.25	62.0	7.8			2.0	62.0	6.9	
WESTFIELD RD		VOW	206.0	206.0		155.0	2.25	206.0	26.0			2.0	206.0	23.1	
TOTAL=			6108	TOTAL =		3865.4	TOTAL=		795.2	TOTAL=		5466.0	TOTAL=		1041.9
				*ASSUMES 125 LB/SY/INCH				*ASSUMES 112 LB/SY/INCH				*ASSUMES 112 LB/SY/INCH			

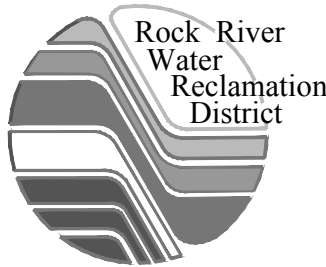
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	SURFACE COURSE	BINDER COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICITION AGGREGATE	MIX "C"	N/A
MIX UNIT WEIGHT	112 lbs/sy/in	112 lbs/sy/in
THESE MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT		

NOTE:
ONLY RRWRD BASE BID WORK IS IEPA L17-5306 LOAN PARTICIPATING.

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	TOTAL Qty.	RRWRD BASE BID	VOW BID ALT. #1	VOW BID ALT. #2	UNIT
1	12" DR-18 PVC FORCEMAIN PIPING (AWWA C-900/ASTM D3139)	3,890	3,890			LF
2	12" DIA. 45 DEG BEND, CLASS 350 DUCTILE IRON (AWWA C-110)	8	8			EA
3	4" DIA. FORCEMAIN DISCHARGE MANHOLE	1	1			EA
4	8" SDR35 PVC SANITARY SEWER (ASTM D3034 ASTM D3212)	48	48			LF
5	18" PS46 PVC SANITARY SEWER (ASTM F679 ASTM D3212)	70	70			LF
6	5" DIA. AIR RELEASE VALVE & VAULT	1	1			EA
7	REMOVE 4' DIAMETER SANITARY MANHOLE	4	4			EA
8	4" DIA. SANITARY MANHOLE	2	2			EA
9	17" X 13" CMP ARCH CULVERT, REMOVE & REPLACE	14	14			LF
10	12" DIA. CMP CULVERT, REMOVE & REPLACE	24	24			LF
11	15" DIA. CMP CULVERT, REMOVE & REPLACE	8	8			LF
12	18" DIA. CMP CULVERT, REMOVE & REPLACE	8	8			LF
13	12" DIA. RCP STORM SEWER, REMOVE & REPLACE	16	16			LF
14	15" DIA. RCP STORM SEWER, REMOVE & REPLACE	11	11			LF
15	24" DIA. RCP STORM SEWER, REMOVE & REPLACE	8	8			LF
16	36" DIA. RCP STORM SEWER, REMOVE & REPLACE	14	14			LF
17	REMOVE & REPLACE CATCH BASIN	1	1			EA
18	6" DIA. WATER MAIN REPAIR	40	40			LF
19	8" DIA. WATER MAIN REPAIR	10	10			LF
20	ROCK EXCAVATION	391	366	25		CY
21	PAVEMENT REMOVAL	6,917	5,912	799	206	SY
22	HMA SURFACE REMOVAL, 2"	5,466	5,466			SY
23	AGGREGATE BASE COURSE, TYPE B	4,413	3,700	558	155	TON
24	HMA BINDER COURSE, N50, IL-19.0	796	762	8	26	TON
25	HMA SURFACE COURSE, MIX "C", N50, IL-9.5	1,126	1,018	85	23	TON
26	PCC DRIVEWAY PAVEMENT, 6"	64	19	45		SY
27	AGGREGATE SHOULDER	365	365			SY
28	PCC SIDEWALK REMOVAL	251	251			SF
29	PCC SIDEWALK - 4"	333	255	78		SF
30	DETECTABLE WARNING	108	108			SF
31	REM. & REPL. PCC CURB & GUTTER	142	142			FT
32	EROSION & SEDIMENT CONTROL, SOPER ST	1	1			LS
33	EROSION & SEDIMENT CONTROL, WESTFIELD RD	1		1		LS
34	EROSION & SEDIMENT CONTROL, WESTFIELD DRAINAGE	1			1	LS
35	TRAFFIC CONTROL& PROTECTION, SOPER ST	1	1			LS
36	TRAFFIC CONTROL& PROTECTION, WESTFIELD RD	1		1		LS
37	TRAFFIC CONTROL& PROTECTION, WESTFIELD DRAINAGE	1			1	LS
38	SITE RESTORATION/SEEDING, SOPER ST	1	1			LS
39	SITE RESTORATION/SEEDING, WESTFIELD RD	1		1		LS
40	SITE RESTORATION/SEEDING, WESTFIELD DRAINAGE	1			1	LS
41	REMOVE FIRE HYDRANT, COMPLETE	6		6		EA
42	REMOVE VALVE & VALVE BOX, COMPLETE	7		7		EA
43	AGGREGATE DRIVEWAY 8", COMPLETE	95		95		SY
44	PVC WATER MAIN COMPLETE, 10"	2,177		2177		LF
45	WATER MAIN PROTECTION, 20"	25		25		LF
46	WATER SERVICE COMPLETE, 1" (SHORT)	20		20		EA
47	WATER SERVICE COMPLETE, 1" (LONG)	2		2		EA
48	GATE VALVE & VALVE BOX COMPLETE, 10"	14		14		EA
49	FIRE HYDRANT WITH 6" VALVE & VALVE BOX, COMPLETE	5		5		EA
50	CONNECT TO EXISTING WATER MAIN, COMPLETE 6"	4		4		EA
51	CONNECT TO EXISTING WATER MAIN, COMPLETE 8"	2		2		EA
52	CONNECT TO EXISTING WATER MAIN, COMPLETE 10"	1		1		EA
53	PIPE CULVERTS, CLASS D, TYPE 1, 12" (ELLIPTICAL)	250		250		LF
54	PIPE CULVERTS, CLASS D, TYPE 1, 15" (ELLIPTICAL)	29		29		LF
55	WATER MAIN LINE STOP, 6"	3		3		EA
56	EXISTING SANITARY MH ADJUSTMENT	1	1			EA
57	ABANDON EXISTING PUMP STATION	1	1			LS
58	PAVEMENT MARKING, ELIDA STREET	1	1			LS
59	GRADING AND SHAPING	3.35			3.35	ACRE
60	STONE RIPRAP RR2	73			73	SY
61	PIPE CULVERTS, CLASS D, TYPE 1, 57"X38" (ELLIPTICAL)	60			60	LF
62	METAL END SECTION, 57" X 38" (ELLIPTICAL)	2			2	EA
63	HMA PATH, COMPLETE	62			62	SY
64	6" PCC SIDEWALK, COMPLETE	414			414	SF



ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.
1	4/12/18	ADDENDUM No. 1	MC

FULLER CREEK PHASE F, SOPER ST. FORCEMAIN
CAPITAL IMPROVEMENT PROJECT #1153

SUMMARY & SCHEDULE OF QUANTITIES

CONSTRUCTION

Sheet No.
3 OF 37

Date
4/12/2018

GENERAL NOTES

1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MUNICIPAL CODE, VILLAGE OF WINNEBAGO, ILLINOIS, CURRENT EDITION, THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION, "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," CURRENT EDITION, SPECIAL PROVISIONS AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", CURRENT EDITION. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
2. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "ENGINEER", WHICH SHALL MEAN FEHR GRAHAM OR THEIR DULY AUTHORIZED AGENT. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "OWNER", WHICH SHALL MEAN VILLAGE OF WINNEBAGO, OR THEIR DULY AWARDED AGENT.
3. AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS, AS PRESENTED IN THESE PLAN DOCUMENTS, ARE SUBSTANTIALLY CORRECT. IF DISCREPANCIES ARE DETECTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCREPANCY PRIOR TO THE BID DATE.
4. QUANTITIES SHOWN ARE ESTIMATES FOR INFORMATION ONLY. PAYMENT WILL BE BASED ON ACTUAL QUANTITIES MEASURED IN THE FIELD OR ON PAYMENT LIMIT DETAILS.
5. THE CONTRACTOR SHALL BE PAID FOR MATERIALS AND EQUIPMENT SUCCESSFULLY INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AS MEASURED OR VERIFIED IN PLACE BY THE ENGINEER OR HIS AGENT.
6. IN CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER.
7. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE OWNER. IMPROVEMENT REPRESENTATIONS AS SHOWN ON THESE PLANS, ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES. THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SAID REQUESTS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED IN CONSTRUCTING THOSE IMPROVEMENTS AS DETAILED IN THIS ENGINEERING PLAN.
8. THE ENGINEER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH GO TO MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS.
9. GENERAL SAFETY PROVISION: TO PROVIDE DRIVERS WITH SAFE TRAVEL CONDITIONS DURING THE CONSTRUCTION PROJECT, AND TO PROVIDE SAFE WORKING CONDITIONS FOR ALL EMPLOYEES, THE RULES, REGULATIONS, AND CONDITIONS STATED BELOW WILL PREVAIL FOR THE DURATION OF THIS CONTRACT. ANY EMPLOYEE OF THE CONTRACTOR OR HIS SUBCONTRACTORS WHO REFUSES TO COMPLY WITH THESE GENERAL SAFETY PROVISIONS SHALL BE REMOVED FROM THE JOB SITE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR AND ANY SUBCONTRACTORS RETAINED BY HIM SHALL COMPLY WITH THE STATE AND FEDERAL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA), JULY 1, 1987 AS IT RELATES TO CONTRACTOR'S OPERATIONS.
10. THE CONTRACTOR SHALL COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.
11. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS NOT THE REDUCED SIZE PLANS.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCIDENTAL TO THE CONTRACT.
13. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED OR DISTURBED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS AND RIGHT-OF-WAY PINS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS. REPLACEMENT OF MONUMENTS WILL BE DETERMINED BY THE ENGINEER.
14. THE CONTRACTOR SHALL REMOVE, STORE, AND RELOCATE TO THE SATISFACTION OF THE ENGINEER ALL EXISTING SIGNAGE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS, AND CONSIDER THIS AS INCIDENTAL TO THE CONTRACT.
15. OUTSIDE THE EXISTING RIGHT-OF-WAY, THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING SIGNS OUTSIDE THE RIGHT-OF-WAY. ANY SIGNS REMOVED FOR CONSTRUCTION PURPOSES SHALL BE CAREFULLY REMOVED AND RE-ERECTED BY THE CONTRACTOR AT A LOCATION NEAREST TO THE ORIGINAL LOCATION, OR AT A LOCATION DETERMINED BY THE ENGINEER IN THE FIELD. REMOVAL AND RE-ERECTED SIGNS AND ANY DAMAGE DONE TO EXISTING SIGNS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
16. ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. MATERIALS AND LABOR NOT SPECIFICALLY IDENTIFIED SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
17. AT THE END OF EACH DAY, THE CONTRACTOR SHALL SECURE THE CONSTRUCTION WORK ZONE FROM POTENTIAL INTRUDERS.
18. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
19. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES, AND SHALL NOT PROCEED WITH THE WORK UNTIL ALL LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE ENGINEER OR HIS REPRESENTATIVE.
20. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
21. ALL ITEMS TO BE REMOVED AND NOT DEFINED AS A PAY ITEM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
22. ALL EXCESS EARTH EXCAVATION, EXCESS MATERIALS, OR OTHER REMOVED ITEMS SHALL BE HAULED OFF-SITE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE OWNER.
23. THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 201 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OBSTRUCTIONS, TREES, DEBRIS AND BRUSH AS DESIGNATED BY THE OWNER AND AS INDICATED ON THE PLANS. ALL MATERIALS SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DURING CONSTRUCTION, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE EXISTING TREES AND LANDSCAPING. ONLY THOSE ITEMS DESIGNATED BY THE OWNER SHALL BE REMOVED.
24. ALL ROADWAY REMOVAL ITEMS SHALL CONFORM TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION. ALL JOINTS BETWEEN THE PORTION REMOVED AND THAT LEFT IN PLACE SHALL BE SAWED TO SUCH A DEPTH THAT A CLEAN, NEAT EDGE WILL RESULT WITH NO SPALLING TO THE REMAINING PORTION. THE COST OF SAWING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ADDITIONAL SAWING OR RE-SAWING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER WITH NO ADDITIONAL COMPENSATION BEING ALLOWED. THE COST OF SAWCUTTING THE EXISTING PAVEMENT SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

GENERAL NOTES

25. WHEN ARTIFICIAL LIGHTING IS UTILIZED DURING NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AS WELL AS ADJOINING RESIDENTIAL AREAS.
26. THE CONTRACTOR IS REQUIRED TO STAY WITHIN THE NOTED PROPERTY BOUNDARIES RIGHT-OF-WAY AND EASEMENTS AS SHOWN IN THE PLANS. ANY ADDITIONAL EASEMENTS SHALL BE SECURED BY THE CONTRACTOR AT NO EXTRA COST.
27. ANY AREAS DAMAGED OR DISTURBED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTOR OPERATIONS, SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. THE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY, STRUCTURE, LANDSCAPING, ETC., DAMAGED OR DESTROYED BY THE CONTRACTOR DURING MOBILIZATION OR CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR, WITH NO EXPENSE BEING CHARGED TO THE ENGINEER OR OWNER. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT, THE CONTRACTOR SHALL PRESENT THE OWNER WITH A "SIGNOFF LETTER", SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED UTILITY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.

CONSTRUCTION STAKING

1. CONSTRUCTION STAKING SERVICES WILL BE PROVIDED BY THE OWNER. STAKE POINTS WILL BE STAKED ONE TIME WHEN REQUESTED BY THE CONTRACTOR. THE SAME STAKE POINTS REQUESTED BY THE CONTRACTOR A SECOND TIME WILL BE PAID FOR BY THE CONTRACTOR.

EROSION CONTROL NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL EROSION AND SEDIMENT CONTROL MEASURES AND THEIR MAINTENANCE, CLEARING AND REMOVAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
2. THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE ILLINOIS URBAN MANUAL, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.
3. A NOTICE OF INTENT (NOI) AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE COMPLETED AND SUBMITTED TO THE ILLINOIS EPA BY THE OWNER PRIOR TO CONSTRUCTION.
4. THE SWPPP SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS AND WILL BE AVAILABLE FOR REVIEW DURING THE BIDDING PROCESS.
5. A COPY OF THE SWPPP WILL BE PROVIDED TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL MAINTAIN ONE COPY OF THE SWPPP AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.
6. THE CONTRACTOR SHALL LEGIBLY MARK ANY CHANGES OR REVISIONS IMPLEMENTED TO THE SWPPP. AT COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL DELIVER THE SWPPP (INCLUDING ALL REVISIONS, RECORDS, AND INSPECTION REPORTS) TO THE OWNER.
7. THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR RESPONSIBLE FOR SEDIMENT AND EROSION CONTROL MEASURES OR CONSTRUCTION ACTIVITIES THAT DISTURB SITE SOIL WILL BE REQUIRED TO CERTIFY THE SWPPP BEFORE A NOTICE TO PROCEED IS ISSUED.
8. A COPY OF THE LETTER OF NOTIFICATION OF COVERAGE, AND THE GENERAL NPDES PERMIT NO. ILR10 MUST BE POSTED IN A PROMINENT PLACE FOR PUBLIC VIEWING AT THE CONSTRUCTION SITE BY THE GENERAL CONTRACTOR.
9. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THESE EROSION CONTROL PLANS AND IN THE SWPPP BEFORE CONSTRUCTION BEGINS.
10. THE CONTROLS SHALL BE INSTALLED AS DETAILED AND WHERE INDICATED ON THE EROSION CONTROL PLAN SHEETS AND AS DIRECTED BY THE INSPECTOR.
11. SITE ACTIVITIES SHOULD ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICABLE.
12. EXCEPT AS PROVIDED IN THE SWPPP, DISTURBED PORTIONS OF THE SITE SHALL BE STABILIZED (TEMPORARILY OR PERMANENTLY SEEDED, MULCHED, SODDED OR PAVED) AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
13. UNTIL SUCH TIME AS THE PROJECT SITE REACHES FINAL STABILIZATION AND A NOTICE OF TERMINATION IS FILED BY THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST, REPAIR, OR REPLACE, ALL VEGETATION, EROSION CONTROLS, SEDIMENT CONTROLS, AND ANY OTHER PROTECTIVE MEASURES AS REQUIRED IN ORDER TO MAINTAIN THEIR INTENDED FUNCTION IN A GOOD AND EFFECTIVE OPERATING CONDITION.
14. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER EXPECTED DURING THE CONSTRUCTION PROCESS THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ARE IDENTIFIED IN THE SWPPP. THESE DISCHARGES SHALL BE DIRECTED AWAY FROM UNPROTECTED, BARE, OR OTHERWISE UNSTABILIZED SOIL, AND APPROPRIATE POLLUTION PREVENTION MEASURES SHALL BE IMPLEMENTED SO THAT THESE DISCHARGES DO NOT CAUSE EROSION OR DEGRADE THE QUALITY OF RUNOFF FROM THE CONSTRUCTION SITE.
15. REGULAR INSPECTIONS WILL BE MADE AS REQUIRED UNDER THE GENERAL NPDES PERMIT NO. ILR10 AND SPECIFIED IN THE SWPPP. A QUALIFIED INSPECTOR WILL BE PROVIDED BY THE OWNER. BASED ON THE RESULTS OF THE INSPECTIONS, POLLUTION PREVENTION MEASURES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER EACH INSPECTION. SUCH REVISIONS SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING EACH INSPECTION.
16. THE INSPECTOR SHALL HAVE AUTHORIZATION TO DETERMINE THE ADEQUACY OF THE CONTRACTOR'S EROSION CONTROL EFFORTS. THE OWNER OR THE INSPECTOR SHALL HAVE FULL AUTHORITY OVER THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR TO CAUSE POLLUTANT CONTROL MEASURES TO BE REPAIRED, MODIFIED, MAINTAINED, SUPPLEMENTED, OR WHATEVER ELSE IS NECESSARY IN ORDER TO ACHIEVE EFFECTIVE POLLUTANT CONTROL OR TO SUSPEND OR LIMIT THE CONTRACTORS OPERATIONS PENDING ADEQUATE PERFORMANCE.
17. PERIMETER EROSION BARRIER TO BE CONSTRUCTED OF SILT FENCE UNLESS NOTED OTHERWISE.
18. INLET PROTECTION SHALL BE A DANDY BAG, DANDY SACK, ROCSOC, OR APPROVED EQUAL.
19. EROSION CONTROL BLANKET SHALL BE OF NORTH AMERICAN GREEN DS75 OR APPROVED EQUAL.
20. A TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AT A LOCATION APPROVED BY THE ENGINEER. WASHOUT FACILITY SHALL BE UTILIZED FOR ALL APPLICABLE OPERATIONS.

EROSION CONTROL NOTES

21. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED, TO THE DIMENSIONS AS SHOWN, AT APPROVED LOCATIONS FOR THIS PROJECT. ALL CONSTRUCTION TRAFFIC MUST UTILIZE THE STABILIZED CONSTRUCTION ENTRANCES WHEN EXITING THE SITE. ALL COST FOR EROSION CONTROL AND RESTORATION WORK ASSOCIATED WITH THE APPROVED STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
22. TEMPORARY EROSION CONTROL MEASURES INCLUDE TEMPORARY DITCH CHECKS, PERIMETER EROSION BARRIER, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, AND ANY OTHER TEMPORARY EROSION CONTROL MEASURE NEEDED TO LIMIT THE AMOUNT OF SOIL EROSION AND SEDIMENTATION DURING CONSTRUCTION.
23. AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED FROM THE SITE, AND BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR MUST STABILIZE ANY AREA DISTURBED BY THE REMOVAL OF EROSION CONTROL ITEMS.
24. CONTRACTOR SHALL CLEAN ANY DEBRIS TRACKED OFFSITE DAILY.

SEEDING OF DISTURBED AREAS

1. THE FINAL TOP 6" INCHES OF SOIL IN ANY DISTURBANCE AREA MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
2. FERTILIZER HAVING AN ANALYSIS OF 10-10-10 SHALL BE APPLIED AT A RATE OF 90 LBS/ACRE TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SOWING THE SEED.
3. THE CONTRACTOR SHALL SEED AND STABILIZE ALL DISTURBED AREAS ADJACENT TO IMPROVEMENTS WITH SEEDING, IDOT CLASS 1A AND NAG DS75 EROSION CONTROL BLANKET OR APPROVED EQUAL IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION OR AS APPROVED BY THE ENGINEER.
4. GUARANTEE: ALL SEEDED AREAS SHALL BE MAINTAINED AND MOWED FOR AT LEAST 30 DAYS AFTER GERMINATION. SCATTERED BARE SPOTS NO LARGER THAN TWO SQUARE FOOT WILL BE ALLOWED UP TO A MAXIMUM OF 5% OF ANY SEEDED AREA INCLUDING 30-DAY MAINTENANCE, MOWING AND WATERING AS NECESSARY.
5. THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE ILLINOIS URBAN MANUAL, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTIONS, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.
6. RESTORATION - THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION OF THE IMPROVEMENTS AND RELATED APPURTENANCES OR AS PART OF ANY OF THEIR ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION.

SUMMARY OF QUANTITIES

No.	Description	Quantity	Unit
1	GRADING & SHAPING	3.35	ACRE
2	PAVEMENT REMOVAL	206	SY
3	RESTORATION AND SEEDING, WESTFIELD DRAINAGE	1	LS
4	EROSION & SEDIMENT CONTROL, WESTFIELD DRAINAGE	1	LS
5	STONE RIP RAP, RR2	73	SY
6	PIPE CULVERTS, CLASS D, TYPE 1, 57"x38" (ELLIPTICAL)	60	LF
7	METAL END SECTION, 57"x38" (ELLIPTICAL)	2	EA
8	HMA PATH, COMPLETE	62	SY
9	6" CONCRETE SIDEWALK, COMPLETE	414	SF
10	HMA SURFACE COURSE, MIX "C", N50, IL-9.5	23	TON
11	HMA BINDER COURSE, N50, IL-19.0	26	TON
12	AGGREGATE BASE COURSE, TYPE B	155	TON
13	TRAFFIC CONTROL & PROTECTION, WESTFIELD DRAINAGE	1	LS



ENGINEERING & ENVIRONMENTAL

ILLINOIS

IOWA

WISCONSIN

OWNER/DEVELOPER:

VILLAGE OF WINNEBAGO
108 WEST MAIN STREET
WINNEBAGO, ILLINOIS 61088

PROJECT AND LOCATION:

WESTFIELD CULVERT REPLACEMENT
WINNEBAGO, ILLINOIS

ALTERNATE BID #2

DRAWN BY: AJB

APPROVED BY: MWG

DATE: 03/08/18

SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

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GENERAL NOTES 1

SET TYPE:

FOR CONSTRUCTION

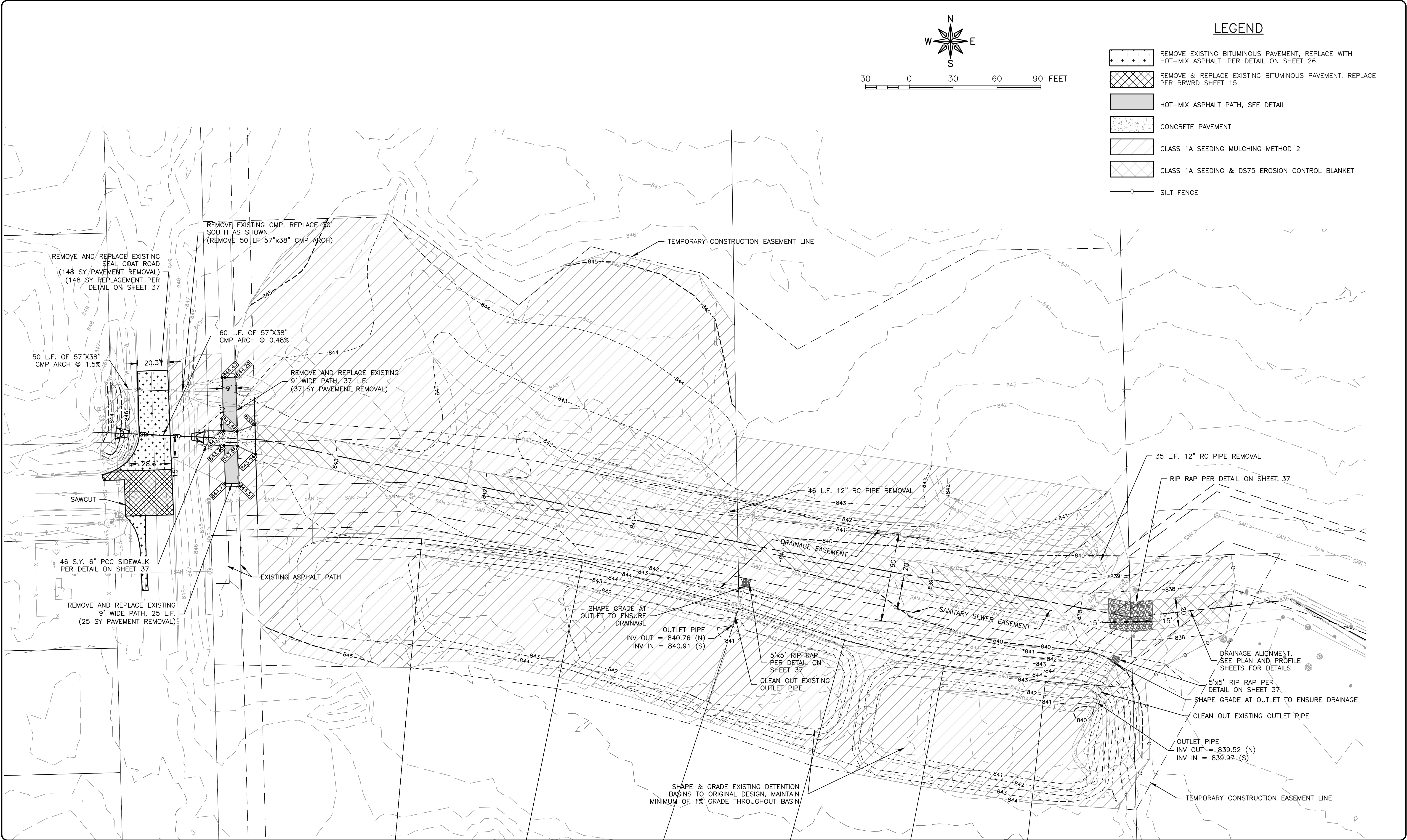
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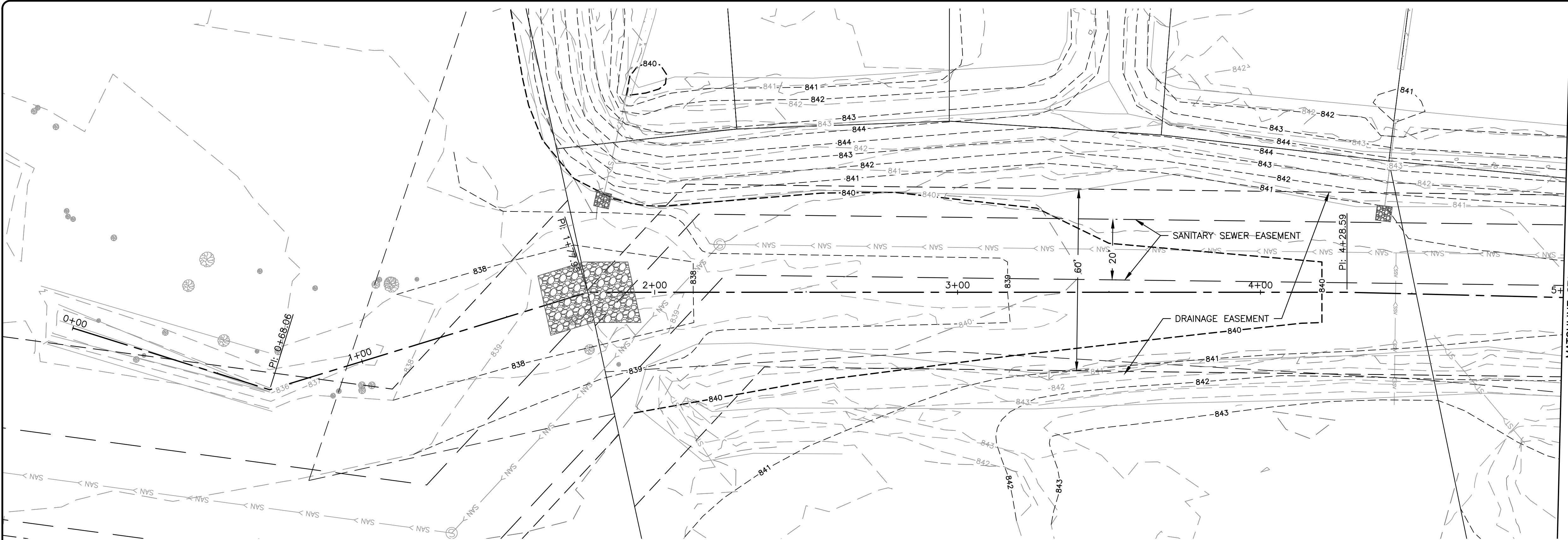
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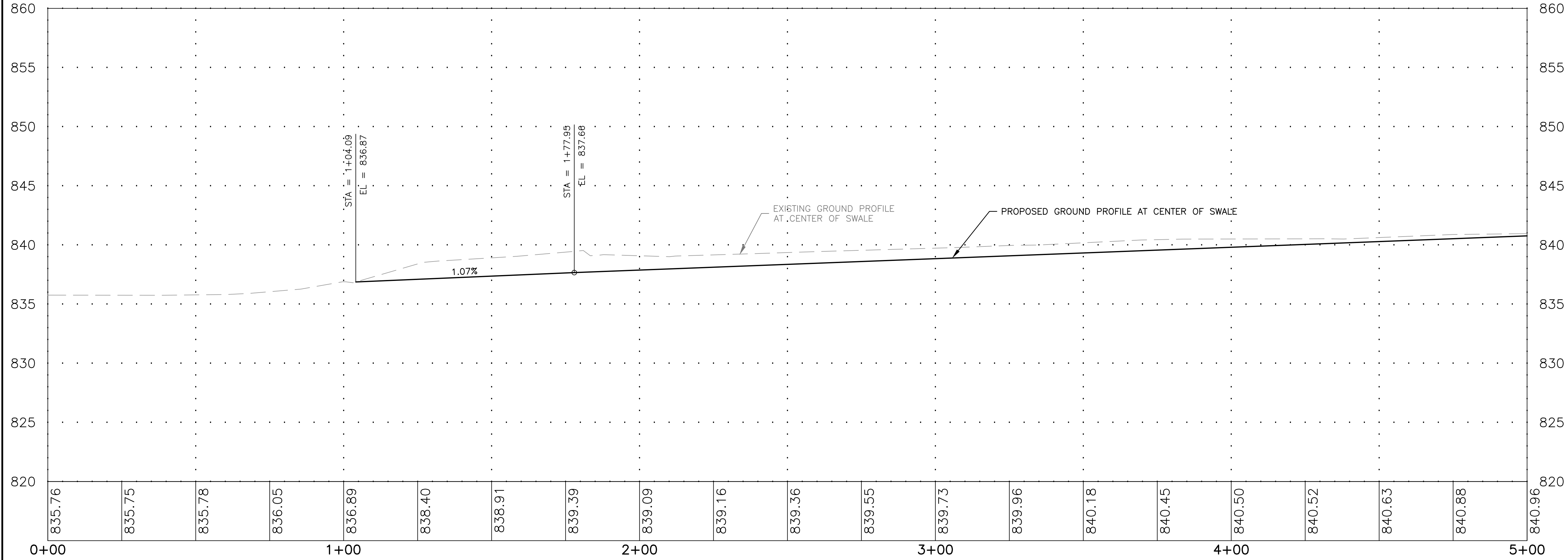
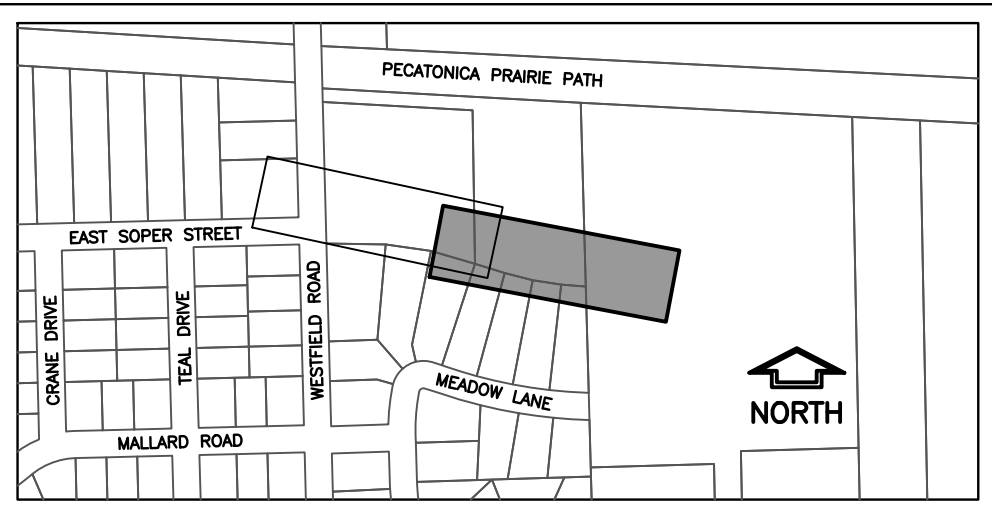
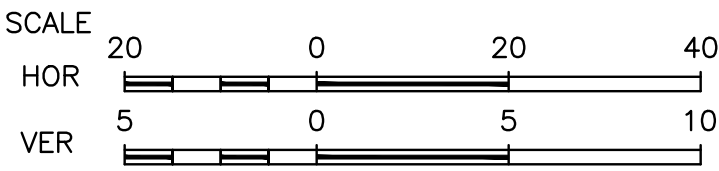
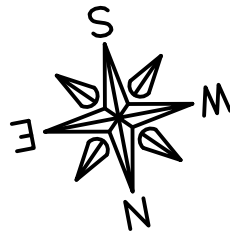


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REV. NO.	DESCRIPTION	DATE



LEGEND

CONCRETE PAVEMENT



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
VILLAGE OF WINNEBAGO
108 WEST MAIN STREET
WINNEBAGO, ILLINOIS 61088

PROJECT AND LOCATION:
WESTFIELD CULVERT REPLACEMENT
WINNEBAGO, ILLINOIS
ALTERNATE BID #2

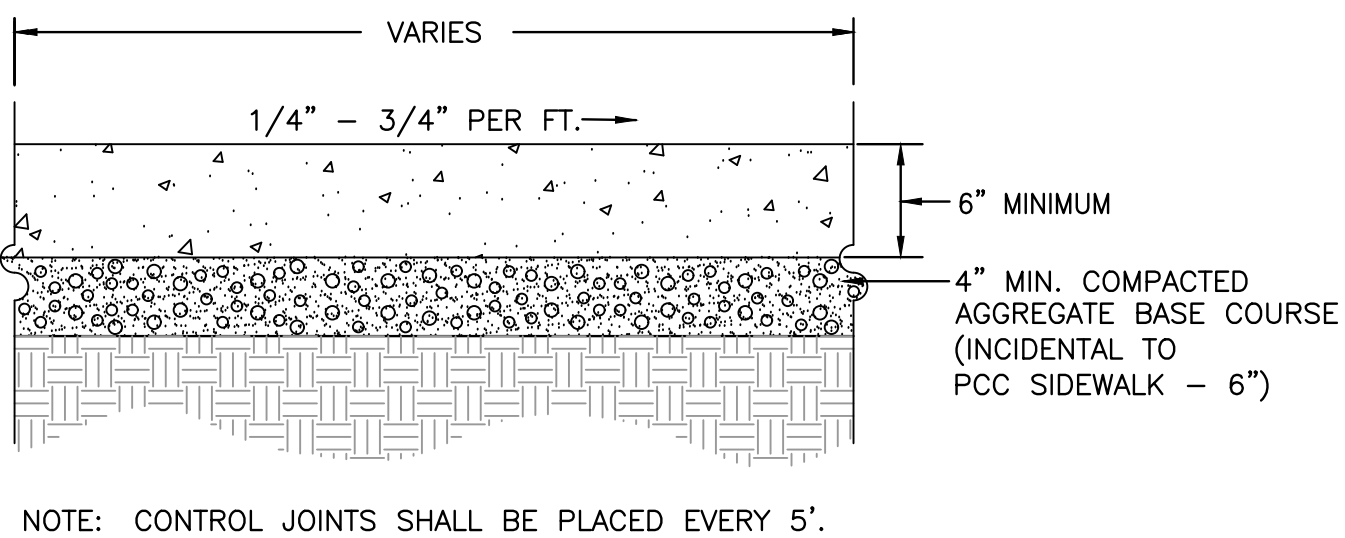
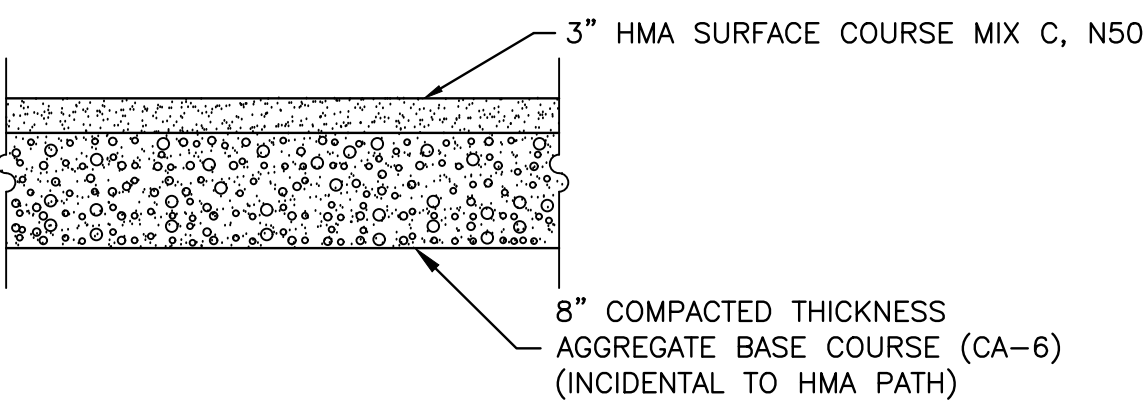
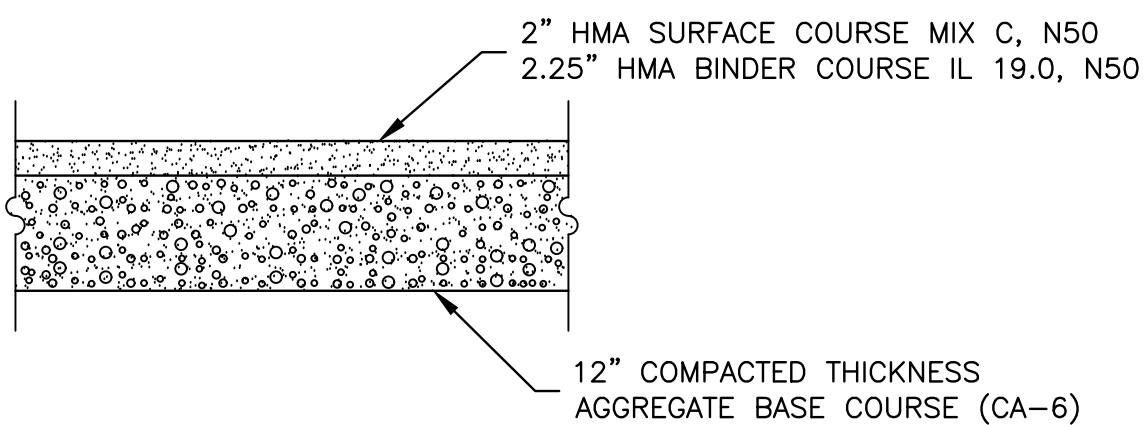
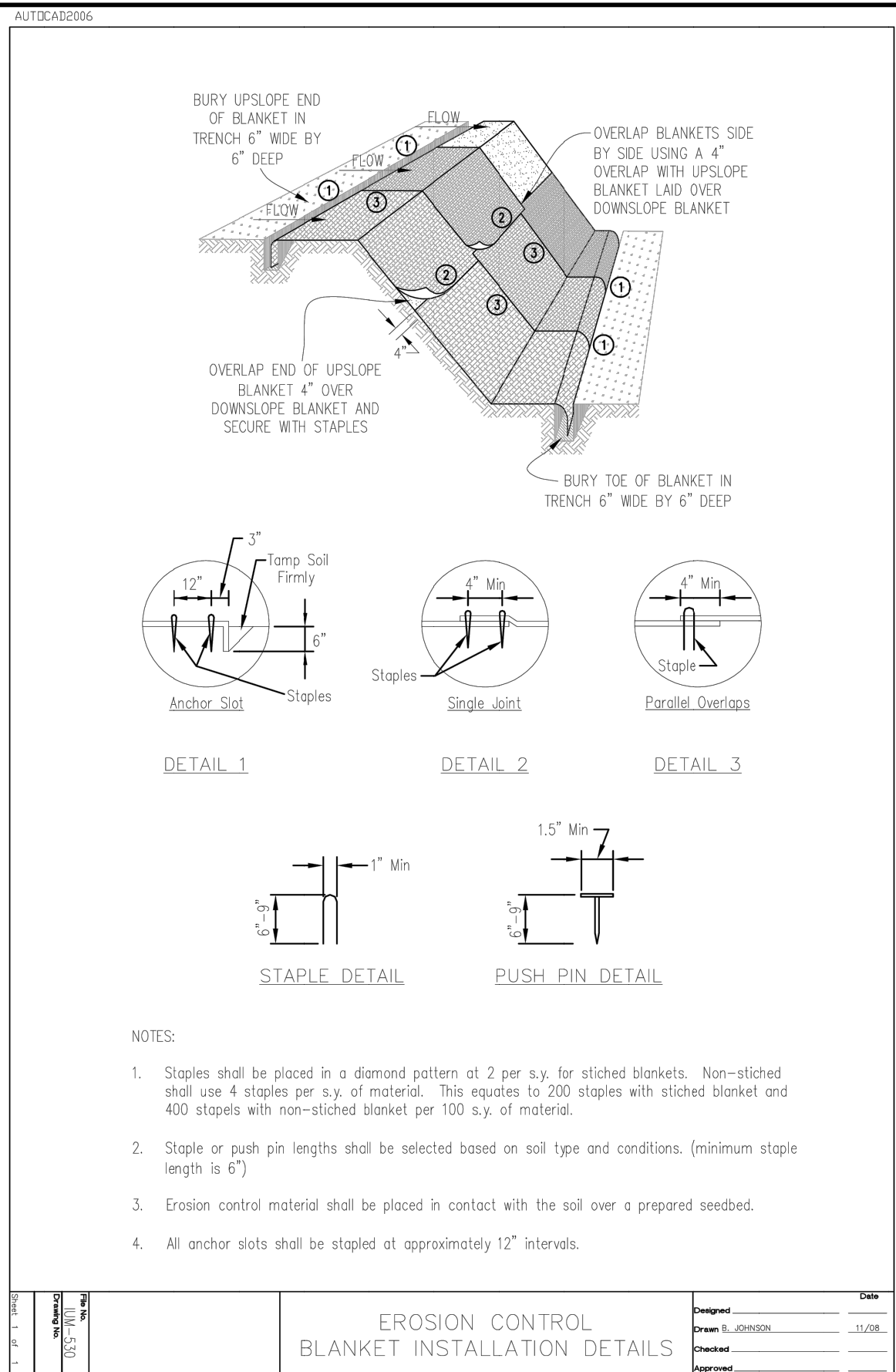
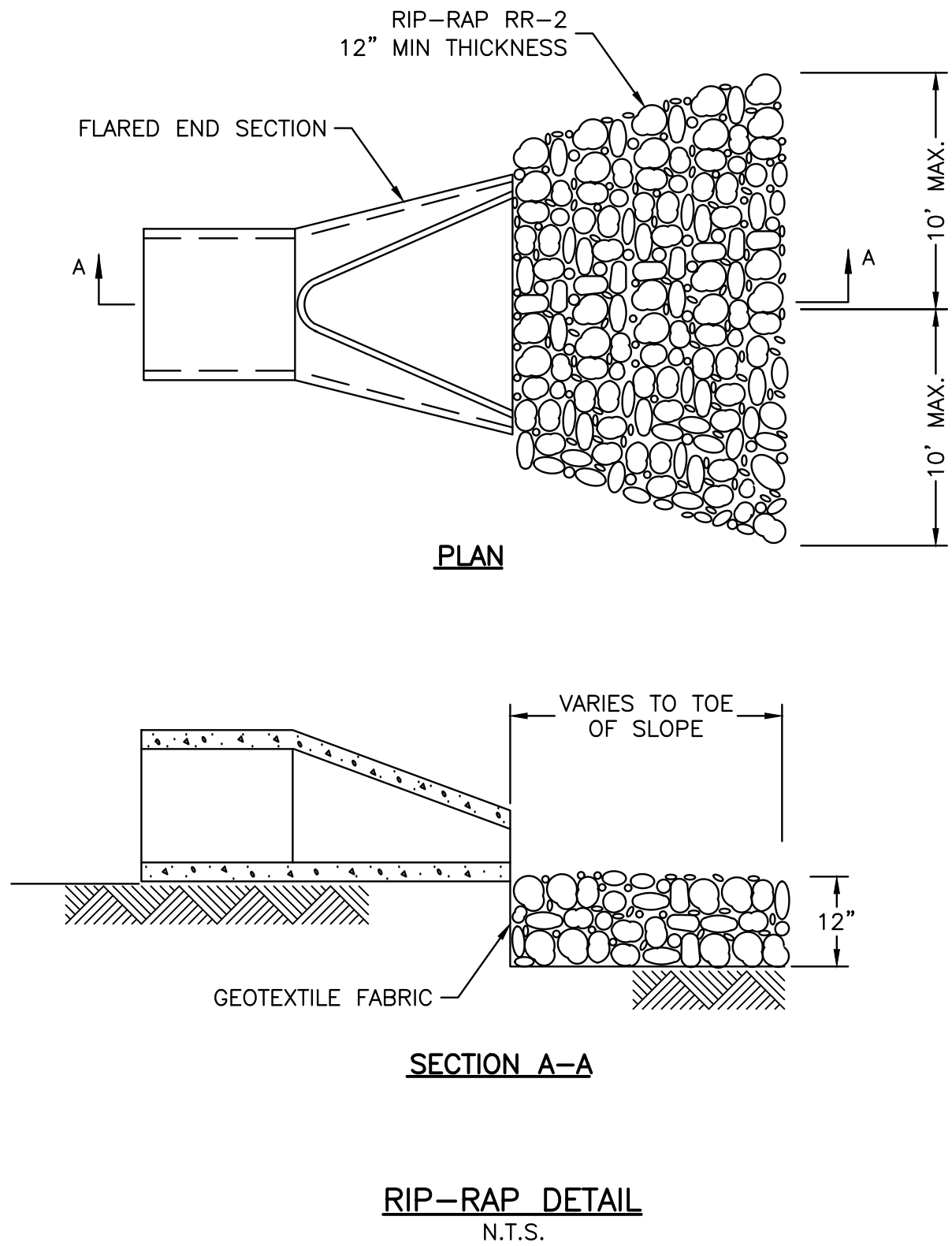
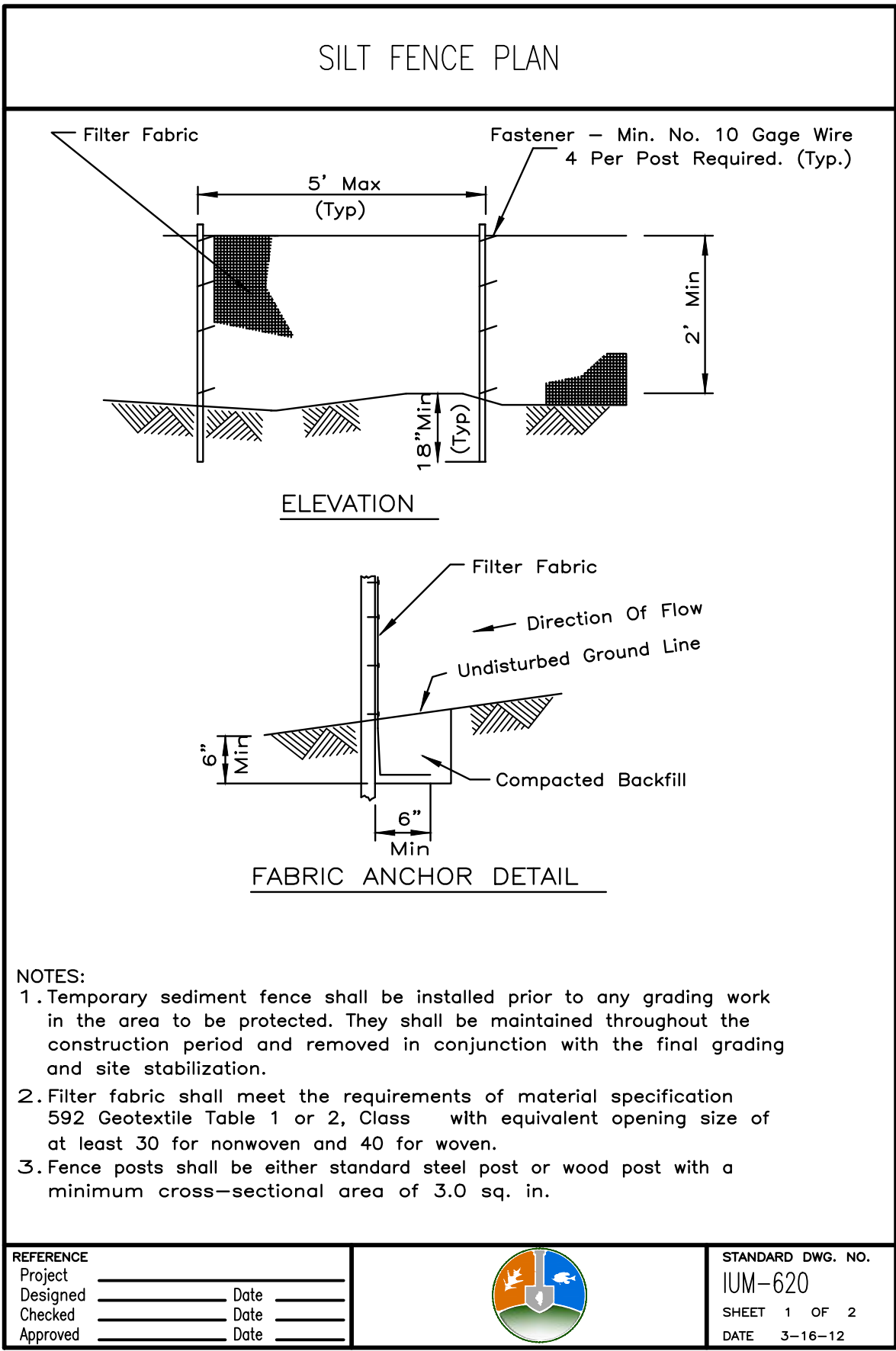
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SCALE: AS NOTED

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REV. NO.	DESCRIPTION	DATE

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