

VILLAGE OF LINCOLNSHIRE

NOTICE TO BIDDERS

NORTH PARK CULVERT REPLACEMENT

The Village of Lincolnshire will receive sealed proposals until 10:00 a.m. on April 21, 2016, at the Village Hall, located at One Olde Half Day Road, Lincolnshire, IL 60069, at which time and place the proposals will be publicly opened.

The proposed project is to remove and replace an existing culvert in the Florsheim Nature Preserve, just east of North Park, at the southeast corner of Riverwoods Road and W. Everett Road in the Village of Lincolnshire. The existing CMP culvert is failing and shall be removed completely. The proposed 48" diameter HDPE culvert shall be installed in the same location. A concrete headwall is proposed on the upstream end of the new culvert and an end section is proposed on the downstream end of the culvert. Tree removal, tree protection, erosion and sediment control and restoration of the project area shall be included as part of the culvert replacement. The proposed improvements are detailed on the plans titled "North Park Culvert Replacement".

Proposal specifications and plans will be made available free of charge beginning April 7, 2016, on the Village website at www.lincolnshireil.gov

An optional Pre-Bid Meeting shall be held on April 13, 2016, at 10:00 AM at the project site located at: North Park, 1025 Riverwoods Road, Lincolnshire, Illinois 60069.

All Contracts for the construction of Public Works are subject to the Illinois Prevailing Wage Act (820 ILCS 130/1-12) and the Employment of Illinois Workers on Public Works Act (30 ILCS 570). This project is considered to be a maintenance project.

The Village of Lincolnshire reserves the right to defer the acceptance of a bid, to accept or reject any and all bids, to waive technicalities and to accept the bid which best meets the needs and requirements of the Village as outlined in the Request for Bidders.

VILLAGE OF LINCOLNSHIRE

Bradford H. Woodbury
Public Works Director

Village of Lincolnshire
Proposal for
NORTH PARK CULVERT REPLACEMENT

TO: Mayor and Board of Trustees
Village of Lincolnshire
One Olde Half Day Road
Lincolnshire, Illinois 60069

FROM: _____
Company

Address

City State Zip

(____) _____

Telephone

Dear Mayor and Trustees:

We, the undersigned, hereby propose to furnish all labor, materials, tools and services required for the North Park Culvert Replacement for the Village of Lincolnshire, Illinois, in accordance with the Plans and Specifications, Notice to Bidders, Instructions to Bidders, and forms of Contract and bid bond.

The undersigned declares that we have examined said Plans and Specifications and acknowledges that the same are accurate and complete and are approved by the undersigned.

All Contracts for the Construction of Public Works are subject to the Illinois Prevailing Wage Act (820 ILCS 130/1-12) Revisions to the Prevailing Wage can be found at the website of the Illinois Department of Labor.

The undersigned agrees to commence work not later than 10 calendar days of the notice to proceed from the Village, and to complete the project within the time frame specified in the Terms and Conditions.

The undersigned understands that a contract to purchase the product and/or work shall

be formed based upon the terms of the RFP upon acceptance of Contractor's proposal by the Village and that the Village will not execute any form of contract submitted by the Contractor. No substitutes will be permitted unless specified by the Contractor in the proposal and approved by the Village.

The undersigned submits the following Schedule of Unit Prices for the work to be performed as shown on the Plans and Specifications, and agrees that the items of work not specifically mentioned in the Schedule which are necessary and required to complete the work intended shall be done incidental to and as part of the items of work for which a unit price is given, and understands that no additional payment will be made for such incidental work. The Contractor shall be responsible for identifying any and all costs to complete the project on time and in order to create a functional and operational system in accordance with the Plans and Specifications.

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

Any errors or omissions in mathematics shall inure to the benefit of the Village of Lincolnshire.

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

The undersigned has received and considered in this proposal the following:

Addendum # _____
Addendum # _____
Addendum # _____

If no addenda were received, mark not applicable.

The undersigned submits a bidder's bond, certified check, bank cashier's check, or a bank draft, in an amount equal to 5% of the proposal for the North Park Culvert Replacement. Checks shall be made payable to the "Village of Lincolnshire."

If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.

The undersigned agrees to submit a performance bond equal to 110% of the value of the contract amount at the time of execution of the contract with the successful bidder.

The prices stated in this proposal are guaranteed for 45 days from the date hereof, and if awarded the work within that period, we agree to complete the work covered by this

Proposal at said prices.

Dated this _____ day of _____ 20_____.

Respectfully submitted,

Company (Typed)

By _____
Name (Signature)

Name (Typed)

Title (Typed)

PREVAILING WAGE ACT NOTIFICATION TO CONTRACTORS

Pursuant to P.A. 96-0437, effective January 1, 2010, a public body that fails to provide written notice to its public works contractors that a project is subject to Illinois prevailing wage requirements is, itself, liable for interest, penalties and fines as stated under Section 4(a-3) of the Act. Failure by the public body to provide written notice does not relieve the contractor of the duty to comply with the prevailing wage rate, nor of the obligation to pay any back wages, to the extent applicable under the Act. This notice is being provided for the mutual benefit of you and the Village.

This contract may call for the performance or delivery of a “public work,” within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. (“the Act”). The Act requires contractors and subcontractors, to the extent that the Act applies, to pay laborers, workers and mechanics performing services on public works projects no less than the “prevailing rate of wages” (hourly cash wages plus fringe benefits) in the county where the work is performed. Related to the Act, the Substance Abuse Prevention on Public Works Projects Act, 820 ILCS 265/1, et seq., requires contractors and subcontractors performing services on public works to have in place a written substance abuse program, which meets or exceeds the program requirements in this Act, on file with the Village.

As the prevailing rate of wages are revised by the Department of Labor and are available on the Department's official website, the revised prevailing rate of wages shall apply to this contract and the cost therefore shall be borne solely by the contractor.

To the extent that the Act applies, all contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping and submittal duties, including the Substance Abuse Prevention on Public Works Act. If the contractor determines that the Act does not apply to it, contractor shall—in lieu of certified payrolls—submit a letter stating that the Act does not apply to it and setting forth the reasons therefor.

SCHEDULE OF PRICES

Contractor to supply unit pricing for all items in the following table:

Item	Unit	Quantity	Unit Price	Total Cost
EARTH EXCAVATION	CU YD	67		
AGGREGATE BASE COURSE, TYPE B	TON	50.5		
PIPE CULVERT REMOVAL	FOOT	42		
PIPE CULVERTS, TYPE 2, 48" HDPE	FOOT	33		
REINFORCED CONCETE END SECTION, STANDARD 542206, 48", 1:2 SKEWED	EACH	1		
CONCRETE END SECTION, STANDARD 542001, 48", 1:2	EACH	1		
TREE REMOVAL (6-15 UNITS DIAMETER)	UNIT	15		
TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18		
TEMPORARY FENCE	FOOT	60		
PERIMETER EROSION BARRIER	FOOT	230		
EROSION CONTROL BLANKET	SQ YD	250		
SEEDING, CLASS 4A AND 5A (MODIFIED)	ACRE	0.1		
MULCH, 6"	SQ YD	100		
STABILIZED DECOMPOSED GRANITE PATHWAY	TON	32.5		
TEMPORARY DITCH CHECKS	FOOT	60		
STONE RIPRAP, CLASS A4	SQ YD	14		
CLEARING AND GRUBBING	LSUM	1		
CONCRETE WASHOUT	LSUM	1		
DEWATERING	LSUM	1		
CONSTRUCTION STAKING	LSUM	1		
MOBILIZATION	LSUM	1		
TRAFFIC CONTROL AND PROTECTION	LSUM	1		
TOTAL CONTRACT BID PRICE				

CONTRACTOR'S CERTIFICATION

_____, of _____, Illinois, as part of its bid on a contract for North Park Culvert Replacement for the Village of Lincolnshire, hereby certifies that said contractor is not barred from bidding on the aforementioned contract as a result of a violation of either Section 5/33E-3 or 5/33E-4 of Article 33E of Chapter 720 of the Illinois Compiled Statutes, 1994.

_____, having submitted a bid/proposal for North Park Culvert Replacement to the Village of Lincolnshire, hereby certifies that said contractor has a written sexual harassment policy in place in full compliance with Chapter 775 ILCS 5/2-105(A), 1994.

I, _____ duly authorized agent for _____, having been first duly sworn depose and state as follows:

- 1. The above-named company is not delinquent in payment of any tax administered by the Illinois Department of Revenue or if it is:
- 2. a. It has previously filed the appropriate document contesting its liability for the tax or the amount of tax in accordance with procedures established by the appropriate revenue Act; or
- b. It has entered into an agreement with the Department of Revenue for payment of all its taxes due and is in compliance with that agreement.

By: _____
Signature

Name, printed
Authorized Agent of Contractor

Subscribed and sworn to before me this ____ day of _____, 20__.

Notary Public
SEAL

INSTRUCTIONS TO BIDDERS

GENERAL CONDITIONS

1. Examination of Plans, Specifications and Site of Work: The bidder shall carefully examine the site of the proposed work and the plans, specifications, and forms of proposal, and contract before submitting his bid for the work contemplated. The submission of a proposal shall be considered conclusive evidence that the bidder has investigated and is satisfied as to all conditions to be encountered in performing the work, and is fully informed as to the character, quality, quantities and costs of work to be performed and materials to be furnished, and to the requirements of the Plans, Specifications, Notice to Contractors, Instructions to Bidders, Proposal, and Contract. If his bid is accepted, the bidder will be responsible for all errors in his proposal resulting from his failure or neglect to comply with these instructions, and for any anticipated profits resulting from such failure or neglect.

2. Preparation of Proposal: The bidder shall submit his proposal on forms furnished by the Village. All writing shall be in ink or typewriter, except the signature of the bidder shall be written with ink. A proposal made by an individual shall be signed by the bidder or his duly authorized agent. A proposal made by a partnership shall be signed by one partner or by a duly authorized agent thereof. A proposal made by a corporation shall be signed by an authorized officer or duly authorized agent of such corporation.

3. Bidder's Statement of Competency: The bidder shall submit with his proposal a satisfactory statement of his competency to perform the work contemplated in the form of a signed letter addressed to the Village. The bidder's statement of competency shall consist of a complete report of his equipment, prior experience including the project names, locations, dates of completion and contact name with telephone number of at least (3) similar projects completed within the last 18 months, and any other pertinent or material facts.

4. Delivery of Proposal: The proposal shall be placed in a sealed envelope plainly marked to indicate its contents and the bidder's name and address. Proposals shall be delivered prior to the time and at the place designated in the Notice to Bidders. When delivered by mail, the sealed proposal marked as specified above shall be enclosed in an additional envelope addressed to the Village and preferably sent by registered or certified mail. If the proposal is received after the opening of bids, it will be returned to the bidder unopened. Proposals may not be submitted by email or facsimile.

5. Opening of Proposals: Proposals will be opened and read publicly at the time and place designated in the Notice to Bidders. Bidders, their authorized agents, and other interested parties are invited to be present.

6. Rejection of Proposals: The Village reserves the right to reject a bidder's proposal for any of the following causes:

6.1 Developments subsequent to the bid opening which in the Owner's opinion would reasonably be construed as affecting the competency or responsibility of the bidder.

6.2 Conviction of a violation of State or Federal law, or rule or regulation of a State or Federal agency, relating to or reflecting on the competency of the bidder for performing the work contemplated.

6.3 More than one proposal for the same work from an individual, partnership, or corporation under the same or different names, or evidence of collusion among bidders.

6.4 Proposal contains omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning.

6.5 Proposal form is other than furnished by the Village.

6.6 Proposal is not accompanied by a proper bidder's statement of competency.

6.7 Lack of qualifications as revealed by the bidder's statement of competency.

6.8 Uncompleted work which in the judgment of the Village might hinder or prevent the prompt completion of additional work if awarded.

7. Award of Contract:

7.1 Unless all proposals are rejected for good cause, award of contract will be made to the lowest responsive, responsible bidder whose proposal complies with all specified requirements stated herein. The successful bidder will be notified by letter that his bid has been accepted and he has been awarded the contract by the Village.

7.2 Upon awarding of this contract the successful bidder shall provide to the Village a performance bond equal to 110% of the contract amount. The performance bond shall be valid for not less than three years from the date of awarding of this contract.

8. Insurance Requirements: The contractor shall secure and maintain such insurance from an insurance company authorized to write casualty insurance in the State of Illinois to protect against claims for bodily injury, death or property damage which may arise from the project. The contractor shall pay the premiums for such insurance in such amount and with such provisions as will protect the Village from contingent liability and a copy of such insurance policy or policies shall be delivered to the Village. The insurance policy shall name the Village as an additional insured, and shall submit a certificate of insurance or certified copy of the insurance policy with the Village.

The insurance shall cover:

- 8.1 General liability Insurance including general aggregate coverage, products aggregate coverage, personal and advertising injury, and each occurrence; a minimum limit two million dollars (\$2,000,000.00) for each item.
- 8.2 Automobile and truck public liability including bodily injury (per person), bodily injury (per accident) and property damage; a minimum combined single limit of two million dollars (\$2,000,000.00).
- 8.3 Excess liability umbrella coverage of two million dollars (\$2,000,000.00) for each occurrence and two million dollars (\$2,000,000.00) in aggregate.
- 8.4 Workmen's Compensation and Employer's Liability Insurance shall be secured and maintained as required by the State.

9. Failure to Execute Contract: Failure on the part of the successful bidder to execute a contract within fifteen (15) days after the date the contract was mailed or otherwise delivered to him, will be just cause for the annulment of the award. If the Village fails to execute the contract agreement within a reasonable time, not to exceed ninety (90) days after receiving the executed contract agreement from the successful bidder, the Contractor shall have the right to withdraw his proposal.

10. Indemnification

10.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Village and its officers, and agents and employees from and against claims, damages, losses, and expenses, including but not limited to attorney's fees, arising out of or resulting from performance of the work, provided that such claim, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from performance of the work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) including loss of use resulting therefrom, but only to the extent caused in whole or in part by negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge or reduce other rights or obligations of indemnity which would otherwise exist as to party or person described in this paragraph 10.

10.2 In claims against any person or entity indemnified under this paragraph by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under

this paragraph shall not be limited by a limitation or amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under worker's or workman's compensation acts, disability benefit acts or other employee benefit acts.

11. Tax Exempt The Village of Lincolnshire is a tax exempt body. All purchases of materials subject to a sales or use tax shall be coordinated with the Village of Lincolnshire in order to claim this tax exempt status.

12. Delays and Extensions of Time: If the Contractor is delayed at any time in progress of the work by an act or neglect of the Village, or of an employee of either, or of a separate contractor employed by the Village, or by changes ordered in the work, or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control, or by delay authorized by the Village, at its sole discretion, pending arbitration, or by other causes which the Village, at its sole discretion, determines may justify delay, then the contract time shall be extended by change order for such reasonable time as the Village may determine at its sole discretion.

13. Payment and Holdback

13.1 Payment of invoices submitted before the 15 of the month will be submitted for Board approval and payment will be made by the 15th of the following month.

13.2 Payments: Payments shall be as follows:

Waivers of Mechanics Lien: With each application for payment, submit waiver of mechanics lien for work shown on previous applications. When an application shows completion of an item, submit final or full waivers. The Village reserves the right to designate which entities involved in the work must submit waivers.

13.3 Holdback: An amount equal to 10% of Contract Amount will be held by the Village until the final acceptance. Any charges or penalties owed to the Village will be subtracted from this amount at the time of final payment.

14. Substitutions: Any component may be substituted in accordance with the following conditions:

14.1 The column marked substitution shall be marked with an appropriate reference indicating a substitution. No substitutions shall be allowed unless the substitution column is marked on the proposal in accordance with this section.

14.2 All substitutions must be accompanied by catalog cuts and a text narrative clearly and explicitly detailing how and why the proposed substitution meets or exceeds the specified item.

14.3 Plans and drawings, as applicable, showing the connections and interrelationships to the system must accompany the proposal.

14.4 Any additional wiring, cabling and interconnection changes related to the substitution shall be considered incidental to and included in the price of the proposed substitution.

14.5 The Village, at its sole discretion, shall either accept or reject any item marked as a substitution prior to contract approval.

14.6 If the Village rejects an item marked as a substitution, an appropriate amount, based upon a pro-rated proportion of the total of item #___ of Section _____.

15. Subcontractor

If Contractor proposes to perform contract with Sub-contractor(s), then all qualifications, insurance requirements, and other applicable terms and conditions shall apply to each and every Sub-contractor. The proposal shall include such documentation for each Sub-contractor. Prior to any work being performed by the Sub-Contractor, the Contractor shall submit all the necessary information to the Village regarding Sub-contractor including company name, company address, certificate of insurance, licenses, years in business, bid certification, name of project contact person; and the Village, at its sole discretion, may require additional insurance, bonds, or deposits to assure faithful performance.

16. Discrepancies

16.1 Prior to the opening of bids, requests for clarification of the plans, specifications, or contract documents shall be submitted in writing to the Village. Clarifications will be issued at the discretion of the bidder. Only clarifications provided in writing shall be relied upon when preparing bids.

16.2 Upon execution of the Contract, any discrepancies between drawings and the plans and specifications shall be subject to interpretation by the Village of Lincolnshire as Owner, in its sole discretion. The Contractor shall immediately, upon finding any discrepancy, request an interpretation from the Village. The Village shall provide a written clarification within 5 working days or the Contractor shall use best judgment.

17. Drug-free Workplace Employees are required to be drug and alcohol free at all times that they are in the workplace. This means that no measurable amount of abuse drug or alcoholic beverage shall be present in the employee's system while on the job, either during the regularly scheduled workday or any overtime or emergency response. Employees must realize that many legal and illegal drugs used for recreational purposes

may remain in the system for several days, and that residual amounts of legal and illegal drugs discovered in the system are included in this policy.

18. Smoke-free Workplace No smoking is allowed on the premises of any buildings in the Village of Lincolnshire.

**NORTH PARK CULVERT REPLACEMENT
CONTRACT**

THIS AGREEMENT made this _____ day of _____, 20____, by and between the Village of Lincolnshire, County of Lake, State of Illinois, hereinafter called the "Village", and, _____, of _____ (address) hereinafter called "Contractor".

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

1. The Contractor will furnish all materials, supplies, tools, equipment, labor and other services necessary to commence and complete the North Park Culvert Replacement project, in accordance with the conditions and prices stated in the Proposal, Notice to Contractors, Instructions to Bidders, Plans and Specifications, and Schedule of Unit Prices all of which are made a part hereof and herein called "Contract Documents."
2. All terms, conditions, representations, specifications, promises, and undertakings contained in the Bidders Proposal, the Instructions to Bidders, Specifications for North Park Culvert Replacement, and Supplemental Special Provisions of this contract, form part and partial this contract as if they were fully set forth herein.
3. The owner will pay the Contractor in the amounts, manner and at times as set forth in the Contract Documents.
4. This agreement is binding upon the parties hereto and their respective heirs, executors, administrators, successors or assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement as of the day and year first above written.

Attest:

By _____
Signature
Barbara Mastandrea, Village Clerk

Village of Lincolnshire:

By _____
Signature
Elizabeth Brandt, Mayor

Attest:

Signature

Printed Name and Title

(Contractor)

Signature

Printed Name and Title

SPECIFICATIONS

The following Specifications are to be made part of the "Contract Documents" and in case of conflict with any part of the "Contract Documents", the more stringent specification shall take precedence.

1. SCOPE OF PROJECT: The Work to be performed under this contract consists of the removal and replacement of the existing 48" CMP culvert with a proposed 48" HDPE culvert, installing a concrete headwall and concrete end section, installing temporary and permanent erosion and sediment control measures, restoration of an existing crushed granite bike path, installation of a field entrance off W. Everett Road, final landscaping seeding for wetland buffer restoration and incidental work necessary to complete the improvements

2. PRE-BID MEETING: An optional Pre-Bid Meeting shall be held on April 13, 2016, at 10:00 AM at the project site located at:

North Park
1025 Riverwoods Road
Lincolnshire, Illinois 60069

The Pre-Bid Meeting provides an opportunity for interested parties to ask questions regarding the scope and nature of the proposed improvements. Questions shall be answered and all questions and answers shall be made available to bidders. Addendum shall be issued as necessary based on the input from bidders.

3. PRE-CONSTRUCTION MEETING: The Contractor shall arrange a pre-construction meeting within ten (10) days of the issuance of the Notice to Proceed. Notification of the date, time, and location of the pre-construction meeting must be provided to the Village of Lincolnshire and to the Lake County Stormwater Management Commission (Mr. Tim Cook – 847-377-7700) a minimum of five (5) calendar days prior to the date of the pre-construction meeting. The Contractor shall provide a schedule of construction activities, milestone dates, and completion dates at the pre-construction meeting.

4. PIPE CULVERT REMOVAL

A. General: This work shall consist of removing the existing 48" corrugated metal pipe (CMP) pipe culvert as shown on the plans. This work shall conform to the applicable portions of Section 501 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition, unless herein modified.

This work shall include the complete removal and disposal of pipe, concrete end

sections, headwalls, wing walls, aprons and appurtenances at both ends of the existing pipe culvert.

- B. Method of Measurement: Measurement for this work will be per FOOT.
- C. Basis of Payment: This work will be paid for at the contract unit price per FOOT for PIPE CULVERT REMOVAL.

5. PIPE CULVERTS, TYPE 2, 48" HDPE

- A. General: This work shall consist of furnishing and installing a 48" diameter high-density polyethylene (HDPE) pipe culvert as shown on the plans. This work shall conform to the applicable portions of Section 542 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition, unless herein modified.
- B. Method of Measurement: Measurement for this work will be made in place per FOOT, excluding any headwalls or concrete end sections.
- C. Basis of Payment: This work will be paid for at the contract unit price per FOOT for PIPE CULVERTS, TYPE 2, 48" HDPE.

6. REINFORCED CONCRETE END SECTION, STANDARD 542206, 48", 1:2, SKEWED

- A. General: This work shall consist of constructing a reinforced concrete end section, skewed with roadway, for the proposed 48" pipe culvert as shown on the plans. This work shall conform to the applicable portions of 542.07 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition, and the IDOT Standard Detail 542206-03. End section may be cast in place or precast at the contractors' discretion.
- B. Method of Measurement: Measurement for this work will be made per EACH.
- C. Basis of Payment: This work will be paid for at the contract unit price per EACH for REINFORCED CONCRETE END SECTION, STANDARD 542206, 48", 1:2, SKEWED.

7. CONCRETE END SECTION, STANDARD 542001, 48", 1:2

- A. General: This work shall consist of constructing a prefabricated concrete end section for the proposed 48" pipe culvert as shown on the plans. This work shall conform to the applicable portions of Section 542.07 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition, and IDOT Standard Detail 542001-01.
- B. Method of Measurement: Measurement for this work will be made per EACH.
- C. Basis of Payment: This work will be paid for at the contract unit price per EACH for CONCRETE END SECTION, STANDARD 542001, 48", 1:2.

8. TREE REMOVAL

- A. General: This work shall consist of removing trees as shown on the plans. This work shall conform to the applicable portions of Section 201 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition.
- B. Method of Measurement: Measurement for this work will be made according to the methods shown in Section 201.10 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition.
- C. Basis of Payment: This work will be paid for at the contract unit price per UNIT diameter for TREE REMOVAL (6-15 UNITS DIAMETER) or TREE REMOVAL (OVER 15 UNITS DIAMETER).

9. TREE PROTECTION

- A. General: This work shall consist of protecting the existing trees from damage during construction activities with the use of temporary fencing as shown on the plans. This work shall include furnishing, installing, maintaining, removing and disposing of the temporary fence and appurtenances. This work shall conform to the applicable portions of Section 201 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition, except as herein modified.
 - i. The Contractor shall erect a temporary fence around all trees within the construction area to establish a "tree protection zone" before any work begins or any material is delivered to the jobsite. No work is to be performed (other than root pruning), materials stored or vehicles driven or parked within the "tree protection zone".
 - ii. The exact location and establishment of the "tree protection zone" fence shall

be approved by the Engineer prior to setting the fence.

- iii. The fence shall be erected on three sides of the tree at the drip-line of the tree or as determined by the Engineer.
- iv. All work within the “tree protection zone” shall have the Engineer’s prior approval. All slopes and other areas not regarded should be avoided so that unnecessary damage is not done to the existing turf, tree root system ground cover.
- v. The grade within the “tree protection zone” shall not be changed unless approved by the Engineer prior to making said changes or performing the work.

The fence shall be similar to wood lath snow fence (48 inches high), plastic poly-type or and other type of highly visible barrier approved by the Engineer. This fence shall be properly maintained and shall remain up until final restoration, unless the Engineer directs removal otherwise. Tree fence shall be supported using T-Post style fence posts. Utilizing re-bar as a fence post will not be permitted.

- B. Method of Measurement: Measurement for this work will be made in place along the length of the temporary fence per FOOT.
- C. Basis of Payment: This work will be paid for at the contract unit price per FOOT diameter for TEMPORARY FENCE.

10. SILT FENCE

- A. General: This work shall consist of furnishing, constructing, maintaining, removing and disposing of temporary perimeter erosion barrier (silt fence) as shown on the plans. This work shall conform to the applicable portions of Section 280 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition, unless herein modified.
- B. Method of Measurement: Measurement for this work will be made per FOOT.
- C. Basis of Payment: This work will be paid for at the contract unit price per FOOT for PERIMETER EROSION BARRIER.

11. EROSION CONTROL BLANKET

- A. General: This work shall consist of furnishing, transporting and placing erosion control blanket over seeded areas as shown on the plans. This work shall conform to the applicable portions of Section 251 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition, unless herein modified.

The erosion control blanket shall be North American Green S75 or approved equal by the Engineer.

- B. Method of Measurement: Measurement for this work will be made in place per SQUARE YARD.
- C. Basis of Payment: This work will be paid for at the contract unit price per SQUARE YARD for EROSION CONTROL BLANKET.

12. SEEDING, CLASS 4A AND 5A (MODIFIED)

- A. General: This work shall consist of preparing the seed bed, placing the seed, initial and maintenance watering of the seed bed and other materials required in the seeding operation including horticultural grade vermiculite in areas as shown in the plans.

All work, materials and equipment shall conform to Section 250 and 1081 of the IDOT Standard Specifications for Road and Bridge Construction, except as modified herein.

The Grass seed mix and the Forb seed mix shall be supplied in separate bags of three mix components: Temporary Cover, Permanent Grasses, and Forbs. All native seed species will be local genotype and verified that original seed collection source will be from within a radius of 150 miles from Lake County. The Forbs seed mix shall be supplied with the appropriate inoculants. Fertilizer is not required.

Article 250.07 Seeding Mixtures – Delete sentence 4. Add the following to Table 1 - Seeding Mixtures:

SPECIES	COMMON NAME	LBS/ACRE	SIZE OF STOCK (in.)
Andropogon gerardii	Big bluestem	4.00	48-96
Andropogon scoparius	Little bluestem	4.00	24-36
Bouteloua curtipendula	Side-oats grama	2.00	12-36
Panicum virgatum	Switch grass	2.00	36-60
Asclepias tuberosa	Butterfly weed	0.05	12-36
Aster ericoides	Heath aster	0.125	12-36
Aster novae-angliae	New England aster	0.05	12-48
Cassia fasciculata	Partridge pea	1.00	6-36
Coreopsis lanceolata	Sand coreopsis	0.50	24-36
Coreopsis palmata	Prairie coreopsis	0.05	12-36
Echinacea purpurea	Purple coneflower	0.50	24-36
Penstemon digitalis	Foxglove beardtongue	0.125	24-48
Monarda fistulosa	Wild bergamot	0.05	24-48
Ratibida pinnata	Yellow coneflower	0.25	12-48
Rudbeckia hirta	Black-eyed Susan	1.00	12-36
Silphium laciniatum	Compass plant	0.05	36-96
Silphium terebinthinaceum	Prairie dock	0.05	36-96
Solidago nemoralis	Old-field goldenrod	0.125	6-20
Solidago rigida	Stiff goldenrod	0.10	12-48
Tradescantia ohiensis	Common spiderwort	0.05	12-48
Verbena stricta	Hoary vervain	0.10	12-24
Cover crop:	Annual rye @ 14 lbs. Per acre		

Notes:

1. The seeding time for this work shall be per Article 250.07 of the Standard Specifications. Seeding done outside of this time frame will not be measured for payment.
2. Each bag shall be labeled. The label shall bear the dealer's guarantee of mixture and year grown, purity, and germination, with date of test, and collection source location. Purity and germination tests no older than six months of the date of sowing must be submitted to verify all of bulk seed required to achieve LB PLS specified.
3. No seed shall be sown until the purity testing has been completed for seeds to be used and shows the seed meets the noxious weed requirements.
4. Seed, which has become wet, moldy, or otherwise damaged will not be acceptable. Prior to application, the Engineer must approve seed mix in the bags.
5. The seedbed shall be prepared and approved by the Engineer prior to seeding. The Contractor shall delineate the perimeter of the seedbed with wooden lathe.
6. No seed shall be sown during high winds or when the ground is not in proper condition for seeding.
7. The Engineer must witness the delivery of seed with original labels attached in the field. Provide to the Engineer the seed labels from the bags in which the

seed is delivered in.

8. Temporary cover seed shall be kept separate from the Permanent type mixture. It shall be mixed on site under the direction of the Engineer.
9. In order to eliminate potential introduction of invasive or exotic species, all equipment used on the planting site shall be free of mud and/or plant material. This includes tires, mower decks, undercarriage, etc.
10. The Cover Crop shall be thoroughly mixed with the Grass seed mix and seeded using a mechanical seeder that applies the seed uniformly at a depth of 1/4 inch. Second, the Forb seed shall be thoroughly mixed with 2 bushels of moistened horticultural grade vermiculite per acre and uniformly seeded at a depth of 1/8 inch. The seedbed shall be immediately covered as specified.

If specified seed material is unavailable, the Engineer shall approve the substitutes in writing. Adjustments will be made at no cost to the contract. Approval of substitutes shall in no way waive any requirements of the contract.

- B. Method of Measurement: Measurement for this work will be made per ACRE.
- C. Basis of Payment: This work will be paid for at the contract unit price per ACRE for SEEDING, CLASS 4A AND 5A (MODIFIED).

13. MULCH, 6"

- A. General: This work shall consist of furnishing and placing mulch to replace the mulch path disturbed during construction activities as shown on the restoration plans and as directed by the Engineer. The mulch shall match the existing mulch along the path and shall have additional characteristics and/or properties as determined by the Engineer. The mulch shall have a minimum thickness of six (6) inches.
- B. Method of Measurement: Measurement for this work will be made in place per SQUARE YARD.
- C. Basis of Payment: This work will be paid for at the contract unit price per SQUARE YARD for MULCH and shall include any necessary excavation and grading.

14. TEMPORARY DITCH CHECKS

- A. General: This work shall consist of furnishing, constructing, maintaining, removing and disposing of temporary ditch checks (also referred to as rolled sediment logs) as shown on the plans. This work shall conform to the applicable portions of Section 280 of the IDOT Standard Specifications for Road and Bridge

Construction, latest edition, unless herein modified.

The ditch checks shall be rolled excelsior material.

- B. Method of Measurement: Measurement for this work will be made in place per FOOT.
- C. Basis of Payment: This work will be paid for at the contract unit price per FOOT for TEMPORARY DITCH CHECKS.

15. STONE RIPRAP, CLASS A4

- A. General: This work shall consist of furnishing and placing bedding material and a protective course of stone laid as riprap for erosion protection and sediment control as shown on the plans. This work shall conform to the applicable portions of Section 281 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition, unless herein modified.

The thickness of the stone riprap lift shall be according to the following table:

Gradation	Stone Riprap Thickness (inch)	Bedding Thickness (inch)
RR 4	16	6

Installation of filter fabric and bedding material under the stone riprap shall be according to Section 281 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition and included in the cost of the proposed riprap.

- B. Method of Measurement: Measurement for this work will be made in place per SQUARE YARD.
- C. Basis of Payment: This work will be paid for at the contract unit price per SQUARE YARD for STONE RIPRAP, CLASS A4. Bedding material and filter fabric will not be paid for separately, but shall be included as part of this pay item.

16. CONCRETE WASHOUT

- A. General: This work shall consist of all labor, equipment, and materials necessary to construct and maintain concrete truck washouts according to the details in the plans and the Illinois Urban Manual Standard Detail 654SB or as directed by the Engineer. The number and location of concrete truck washouts necessary are dependent on the Contractor's operations.

B. Method of Measurement: Measurement for this work will be made per LSUM.

C. Basis of Payment: This work will be paid for at the contract unit price per LSUM for CONCRETE WASHOUT, regardless of the number of concrete washouts provided during construction or required by the Engineer.

17. DEWATERING

A. General: This work shall include furnishing, installing, maintaining and removing of a temporary dewatering and bypass pumping set-up and appurtenances at the location(s) shown on the plans according to the details in the plans, Section 281 of the IDOT Standard Specifications for Road and Bridge Construction and as described herein.

MATERIALS:

- 1) SEDIMENT CONTAINER FILTER BAG - Sediment Control Filter Bags must be ACF Environmental ERO-TEX dewatering filter bag, US Fabrics filter bag, or JMD Enviro- Protection filter bag or approved equal by the Engineer, of the size required to adequately filter pumped water per the manufacturers' specifications.
- 2) TEMPORARY DEWATERING SUMP - Materials for Dewatering Sump must be 2 inch Coarse Aggregate and a filter fabric, with a ¼ to ½ inch hardware cloth wire placed around the standpipe prior to attaching the filter fabric, as shown on the detail Drawings.
- 3) BYPASS PUMPING – Contractor to provide bypass pump(s), hoses, fittings and all other necessary appurtenances that can convey the required design flow around the construction site without failure.
- 4) OUTLET EROSION PROTECTION/ ENERGY DISSIPATOR – Materials for the outlet protection such as silt fence, sediment logs, lathe, etc. shall be in compliance with Section 280 of the IDOT Standard Specifications for Road and Bridge Construction.

CONSTRUCTION METHODS:

- 1) TEMPORARY DEWATERING SUMP. Pumping water from open trenches or other areas must be performed in a manner to minimize the turbidity of the pumped water in accordance with Illinois Urban Manual IL-650. This pumping shall utilize an inlet hose with filter fabric over the intake and positioned in an aggregate-filled hole near the bottom of the trench. The intake hose shall be

supported on a floatation or similar device so as not to pump directly from the bottom of the basin, trench, etc. Water must be pumped directly into a Sediment Container Filter Bag. All materials, labor and excavation required to prepare the TEMPORARY DEWATERING SUMP are included in the cost of DEWATERING.

- 2) SEDIMENT CONTAINER FILTER BAG. Water must be pumped directly to a SEDIMENT CONTAINER FILTER BAG. A SEDIMENT CONTAINER FILTER BAG must be used according to the manufacturer's instructions except as modified by the Contract Drawings and Specifications. The SEDIMENT CONTAINER FILTER BAG must be placed on 4" of compacted CA-6 bedding.
- 3) OUTLET EROSION PROTECTION/ ENERGY DISSIPATOR. Filtered water exiting the sediment container filter bag must have adequate protection against erosion and sediment deposition before the water reached the Waters of the U.S. This shall be accomplished with the use of sediment logs and silt fence to dissipate the energy and filter sediment from the water. Additional requirements for erosion protection may be required by the Engineer of the Erosion Control Inspector, as determined in the field, and shall be considered incidental to DEWATERING.

B. Method of Measurement: This work will be measured for payment as LUMP SUM.

C. Basis of Payment: This work will be measured for payment as LUMP SUM and shall include furnishing, excavation, installation, maintenance and removal of TEMPORARY DEWATERING SUMP and SEDIMENT CONTAINER FILTER BAG, bypass pump(s), hoses, fittings, sediment logs, silt fence and any other related work or appurtenances necessary to provide a work zone free of excessive water levels. Maintenance efforts including replacement of the SEDIMENT CONTAINER FILTER BAG and disposal of accumulated sediment shall be included in the cost for DEWATERING.

Means and methods of pumping water from excavated trenches, footing excavations, or other areas will be considered included in the work item to which it pertains and will not be paid for separately.

18. CONSTRUCTION LAYOUT

- A. General: This work shall consist of the surveying and staking of the proposed improvements to establish field locations and elevations of the structures and for the preparation of record drawings of the completed project.

- B. Method of Measurement: Construction Layout shall not be measured, but will be paid for as LSUM for the furnished construction layout, staking, and record drawings preparation.
- C. Basis of Payment: This item shall be paid for at the contract unit price per LSUM for CONSTRUCTION LAYOUT. The Lump Sum Price for this item shall constitute full compensation for furnishing, installing and maintaining construction stakes and preparing record drawings for the culvert replacement improvements. Construction Layout services shall be provided as listed in *Check Sheet #9 State of Illinois Department of Transportation Special Provision for Construction Layout Stakes Except for Bridges of the Supplemental Specification and Recurring Special Provisions*, Latest Edition. Construction Layout includes the preparation of Record Drawings upon completion of the proposed improvements.

19. MAINTENANCE OF EROSION CONTROL SYSTEMS

The contractor shall maintain all erosion control systems used during construction throughout the entire duration of the project until final acceptance by the Engineer and the Erosion Control Inspector. This includes any required maintenance as required by the IDOT Standard Specifications for Road and Bridge construction, latest edition, the Illinois Urban Manual, details in the plans and also any maintenance as required by the Engineer or Erosion Control Inspector. The Contractor may also need to execute additional erosion control measures if required by the Engineer or Erosion Control Inspector if the erosion control measures shown on the plans are insufficient. This work will not be paid for separately, but shall be included in the cost of each respective pay item and the contract.

If the Contractor fails to maintain or install the erosion control systems as directed by the Engineer or Erosion Control Inspector, the Engineer may at the expiration of a period of 48 hours after having given the Contractor written notice, proceed to maintain the systems as deemed necessary, and the cost thereof will be deducted from any compensation due, or which may become due to the Contractor under this contract. The Engineer may also impose an Erosion and Sediment Control Deficiency Deduction in accordance to Section 105.03(a) of the IDOT Standard Specifications for Road and Bridge Construction, latest edition.

20. IN-STREAM NARRATIVE

This project requires a U.S. Army Corps of Engineers (“Corps”) 404 Permit. The permit issued to the Village does not cover the in-stream work by the contractor; therefore, after award, the contractor shall submit the work plan to the Village’s Resident Engineer for acceptance. The acceptable plan must be submitted to the Corps/SMC prior to starting work. The Corps/SMC will not be providing an approval unless stated otherwise in the

permit, and in-stream work can commence at the contractor's discretion after the Corps has been copied with the plan acceptable to the department. Guidelines on acceptable in-stream work techniques can be found on the Corps' website: <http://www.lrc.usace.army.mil/co-rpdf/cofferdam.pdf>. Lack of an approved plan or failure to comply will result in an Erosion and Sediment Control Deficiency Deduction in accordance to Section 105.03(a) of the IDOT Standard Specifications for Road and Bridge Construction, latest edition.

The Corps of Engineers/ Lake County SMC must be notified one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activities, and one week prior to the final inspection.

21. STABILIZED DECOMPOSED GRANITE PATHWAY

PART 1: GENERAL

1.1 SUMMARY

- A. This section includes materials and execution information for construction of a Stabilized Decomposed Granite Pathway with aggregate with Organic-Lock binder for pedestrian and bicycle traffic applications
- B. Related Sections:
 - a. Excavation
 - b. Aggregate Base Course

1.2 REFERENCES

- A. ASTM C136 / C136M – 14, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates, ASTM International, West Conshohocken, PA, 2014, www.astm.org
- B. ASTM D2419 – 14, Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregates, ASTM International, West Conshohocken, PA, 2014, www.astm.org
- C. ASTM F1951 – 14, Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment, ASTM International, West Conshohocken, PA, 2014, www.astm.org

1.3 SUBMITTALS

- A. Submit for owner approval prior to ordering and delivery of materials:
 - 1. Manufacturer's product data sheet.
 - 2. One (1) quart sample of stabilized crushed aggregate paving of specified color.

3. Stabilized crushed aggregate gradation indicating that the product meets specifications.
4. Base Course gradation indicating that the product meets specifications
5. Manufacturer's Material Safety Data Sheet.

1.4 SEQUENCING

- A. No work specified in the section shall be installed prior to approval and acceptance of compacted subgrade.
- B. Work specified in this section shall be coordinated with work specified in other section to minimize disturbance to and operation of heavy equipment over final installed stabilized decomposed granite pathway.

1.5 SITE CONDITIONS

- A. Ensure that the subgrade and base are properly graded and compacted to 95% of the standard laboratory density as specified in section 301 of the Standard Specifications for Road and Bridge Construction, Latest Edition, by the Illinois Department of Transportation.
- B. Aggregate base course material shall be Type B, gradation CA-6, of the specified compacted thickness and shall be prepared in accordance with section 358 of the Standard Specifications. Existing pathway material may be used in lieu of base course material upon approval of the engineer.
- C. Do not install the Stabilized Decomposed Granite Pathway during rain. Rain within 3-5 days after installation will increase curing time.
- D. Protect all nearby surfaces, plants, and structures from possible contamination from materials or damage by equipment.

1.6 TEST PLOT

- A. Install twenty (20) square feet minimum of Stabilized Decomposed Granite Pathway including base course, at location approved by the engineer.
- B. Allow engineer to view test plot before proceeding with rest of stabilized crushed aggregate paving.
- C. Approved test plot may remain as part of completed Work.

1.7 DELIVERY, HANDLING, AND STORAGE

- A. Delivery:
Delivery of stabilized crushed aggregate paving is available from the manufacturer or select dealers. Please contact the manufacturer for more information. Delivery of pre-blended stabilized crushed aggregate is available from select dealers. Contact your closest dealer or the manufacturer for more information.
- B. Handling:

Wear appropriate respirator when ventilation is inadequate. Avoid contact with skin and eyes.

C. Storage:

Protect stabilized crushed aggregate mix from contamination. Store under cover.

PART 2: PRODUCTS

2.1 MANUFACTURERS

- A. Stabilized crushed aggregate material used in the construction of the Stabilized Decomposed Granite Pathway shall be Organic-Lock stabilized pathway aggregate "Ruby Red Granite" variety provided by: Kafka Granite, LLC; 550 E Hwy 153; Mosinee, WI 54455; PH: 800-852-7415; kafka@kafkagranite.com ; www.kafkagranite.com
- B. Approved equivalents to the specified materials may be considered provided they meet the material specifications of this section. Documentation of compliance must be submitted for consideration of approved equivalent materials.

2.2 MATERIALS

A. Crushed Aggregate Materials:

- 1. Crushed Aggregate Material shall consist of sound, angular, durable particles.
- 2. Gradation, in accordance with ASTM C136:

Optimal Gradation		
Sieve	Sieve Size (mm)	Percent Passing
3/8"	9.51	100%
4	4.76	80-100%
8	2.36	65-90%
16	1.18	50-70%
30	0.6	25-55%
50	0.3	15-35%
100	0.149	10-20%
200	0.074	5-15%

B. Organic-Lock Binder

- 1. Patented powdered organic binder designed to be blended with crushed aggregate
- 2. Made from 100% naturally occurring materials

PART 3: EXECUTION

Stabilized Crushed Aggregate Paving shall be installed per the manufacturers' specifications. The following general guidelines are provided as a minimum standard for installation and execution.

3.1 PREPARATION

1. Prepare the Subgrade:

Excavate the area to the depth required so that finish grade can be established as noted on plans. A Pedestrian or Bicycle Traffic Pathway will require a full depth of 9 inches: 6 inches of compacted base depth together with 3 inches of stabilized crushed aggregate paving.

Compact the subgrade to 95% Modified Proctor Density.

2. Prepare the Base

Spread the base material to approved depth. Aggregate base course material shall be Type B, gradation CA-6, of the specified compacted thickness and shall be prepared in accordance with section 358 of the Standard Specifications. Pedestrian and Bicycle Traffic Pathways will require 6 inches of compacted base material. Depending upon the method of compaction the installation of base material may require separate lifts. Note: Vibratory compaction is only acceptable for the base material. Stabilized crushed aggregate paving must be compacted with a single or double drum static roller.

Compact the subgrade to 95% Modified Proctor Density.

3.2 WATERSHED MANAGEMENT

Crowns and/or cross-slopes must be incorporated into the compacted base material. If the slope is 2% or lower, a crown should be incorporated into the pathway. If the slope is greater than 2%, incorporate a cross-slope.

3.3 SPREADING

Spread the loose and un-compacted stabilized crushed aggregate paving over the compacted base material. Typically, a lift of 4 inches of loose, pre-wet stabilized crushed aggregate paving will compact to the required 3 inch depth for Pedestrian and Bicycle Traffic Pathways.

3.4 COMPACTION

Make 4-6 passes using a 1 ton double or single static drum roller, or equivalent. Vibratory compaction is not acceptable for the stabilized crushed aggregate paving. The Stabilized Decomposed Granite Pathway shall have a compacted thickness of three (3) inches.

Compact to 95% Modified Proctor Density.

3.5 COMPLETING INSTALLATION

Apply a light spray to the surface of the material to give a clean appearance.
Apply water until the water begins to run-off.

Do not allow any traffic on the newly installed pathway until fully cured

3.7 REPAIRS AND PROTECTION

Excavate the damaged area and scarify exposed stabilized crushed aggregate paving.

Pre-blend the replacement crushed stone aggregate material with Organic-Lock at 34 lbs/ imperial ton. Apply the material to the excavated area and compact. Thoroughly water the material to achieve an 8-10% moisture content, the use of a moisture probe is recommended.

Allow the newly installed Organic-Lock Pathway Aggregate to cure, but not completely dry out.

Re-compact the material, ensuring that the final grade and crown are maintained. Do not use a vibratory compactor.

PART 4: MEASUREMENT AND PAYMENT

4.1 GENERAL

1. This work consists of all transportation, storage, equipment, labor and materials required for the installation and compaction of stabilized crushed aggregate paving surface. A Pedestrian or Bicycle Traffic Pathway will require a full depth of 9 inches: 6 inches of compacted base depth together with 3 inches of stabilized crushed aggregate paving. The proposed Stabilized Decomposed Granite Pathway shall be a minimum of eight (8) feet in width. The limits of the proposed pathway shall be as shown on the site improvement plans. EXCAVATION required for the installation of the Stabilized Decomposed Granite Pathway will not be measured under this item, but shall be measured and paid for separately. AGGREGATE BASE COURSE required for the installation of the Stabilized Decomposed Granite Pathway shall not be measured under this item, but shall be measured and paid for separately.
2. Method of Measurement: Measurement for this work shall be per TON of installed Stabilized Decomposed Granite Pathway.
3. Basis of Payment: This work shall be paid for at the contract unit price per TON for STABILIZED DECOMPOSED GRANITE PATHWAY.

22. EARTH EXCAVATION

- A. General: This work shall be constructed in accordance with Section 202 of the Standard Specifications and will consist of the complete excavation, transportation, and disposal of all material necessary to construct the Stabilized Decomposed Granite Pathway and field entrance improvements to the lines and grades shown on the plans. Excavation shall include all costs associated with the transportation, depositing, placing and compaction of excavated materials to fill locations to match the required lines and grades as shown on the plans. The removal of any material excavated and not subsequently used as embankment shall be disposed of offsite. All costs associated with the removal, hauling and disposal of surplus excavated materials shall be considered part of Excavation and no additional compensation shall be provided
- B. Method of Measurement: Measurement for this work will be made according to the methods shown in Section 202.07 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition. Earth Excavation shall be measured at the Contract Quantities per CUBIC YARD of EXCAVATION
- C. Basis of Payment: This work will be paid for at the contract unit price per CUBIC YARD for EARTH EXCAVATION.

23. AGGREGATE BASE COURSE, TYPE B, 6”

- A. General: This work shall be constructed in accordance with Section 351 of the Standard Specifications and will consist of the complete transportation, installation, spreading, compaction, labor and materials, and all equipment necessary to construct the Aggregate Base Course, Type B associated with the Stabilized Decomposed Granite Pathway and field entrance improvements to the lines and grades shown on the plans. Aggregate Base Course, Type B shall be CA-6 and shall be six (6) inches of compacted thickness. Aggregate Base Course shall be placed on prepared subgrade, prepared in accordance with Section 301 of the Standard Specifications. Prepared subgrade and Aggregate Base Course shall be compacted to 95% of the standard laboratory density. All costs associated with the furnishing, placing, compacting and maintaining of the Aggregate Base Course shall be considered part of Aggregate Base Course, Type B and no additional compensation shall be provided
- B. Method of Measurement: Measurement for this work will be made according to Section 351.11 of the IDOT Standard Specifications for Road and Bridge Construction, latest edition. Aggregate Base Course, Type B shall be measured for payment in TONS of AGGREGATE BASE COURSE, TYPE B.
- C. Basis of Payment: This work will be paid for at the contract unit price per TON for AGGREGATE BASE COURSE, TYPE B.

24. CLEARING AND GRUBBING

- A. General: This work shall consist of the removal and disposal of all obstructions such as fences, walls, foundations, buildings, accumulations of rubbish of whatever nature and existing structures, all logs, shrubs, bushes, saplings, grass, weeds, other vegetation, and stumps of less than six (6) inches in diameter in accordance with section 210 of the Standard Specifications. All costs associated with the hauling and disposal of removed material shall be considered part of Clearing and Grubbing, and no additional compensation shall be provided.
- B. Method of Measurement: This work shall not be measured for payment. CLEARING AND GRUBBING shall be a LUMP SUM item.
- C. Basis of Payment: This work will be paid for at the contract unit price per LUMP SUM for CLEARING AND GRUBBING.

25. FIELD ENTRANCE

- A. General: This work shall consist of the reconstruction of the existing field entrance off of W. Everett Road to the current Lake County Division of Transportation Standard (LC4103). This work includes furnishing all labor and materials necessary to construct the Standard Aggregate Field Entrance at the location of the existing field entrance including excavation, Aggregate Base Type B (6"), compaction, subgrade preparation, transportation, storage, and removal and disposal of all surplus materials. The final dimensions of the Field Entrance shall be as indicated on the plans and as shown on the LCDOT Detail included as part of the plan set.
- B. Method of Measurement: This work shall not be measured separately for payment, but shall be measured under the pay items for EARTH EXCAVATION and AGGREGATE BASE COURSE, TYPE B.
- C. Basis of Payment: This work will not be paid for separately, but shall be paid for under the pay items for EARTH EXCAVATION per CUBIC YARD and AGGREGATE BASE COURSE, TYPE B per TON.

26. TRAFFIC CONTROL AND PROTECTION

- A. General: This work shall consist of providing traffic control and protection on W. Everett Road for construction vehicles entering and leaving the project site as well as for the work associated with the proposed field entrance construction. Traffic Control and Protection shall be provided pursuant to Illinois Department of Transportation Highway Standard 701006-05 and Standard 701201-04. The work shall include all labor and materials necessary to furnish and maintain the traffic control devices for the duration of construction.

- B. Method of Measurement: This work shall not be measured for payment. TRAFFIC CONTROL AND PROTECTION shall be a LUMP SUM item.
- C. Basis of Payment: This work will be paid for at the contract unit price per LUMP SUM for TRAFFIC CONTROL AND PROTECTION.

27. CLEANING UP

- A. The Contractor shall at all times keep the premises free from accumulation of waste materials and rubbish caused by his work. Tools, equipment and surplus materials shall be removed upon completion of the work.

If the Contractor fails to clean up as provided in the Contract Documents, the Village may do so and the cost thereof shall be charges to the Contractor or subtracted from any holdback amount.

- B. Final cleaning shall include removal of all temporary erosion control devices, removal of all equipment and materials from staging areas, cleaning of staging areas, removal of concrete washout devices, removal of dewatering features and cleaning of construction site access route through the North Park facility. Damage to existing features at the North Park facility shall be repaired by the contractor at no additional cost to the owner.

28. FUNCTIONAL/OPERATIONAL

The Village, at its sole discretion, shall make the determination of "functional and operational" in the event of any questions, disputes, or concerns regarding this Contract. The Village, shall submit a notice of final acceptance to the Contractor in order to release any payment money held by the Village or final payments, less any deductions for penalties or other charges. The project is scheduled for a completion date of July 29, 2016.

29. VILLAGE ORIENTATION/TRAINING/DOCUMENTATION

NOT USED

30. FINAL ACCEPTANCE

- A. Preliminary procedures - Before requesting final payment, complete the following.

List any exceptions in the request for final payment. Submit the final payment request with releases, waivers of liens, and supporting documentation not

previously submitted and accepted.

Submit an updated final statement, accounting for final additional changes to the Contract Sum. Submit the notice of final acceptance from the Village along with all other documentation.

- B. Inspection/Re-inspection Procedure: The Village will inspect or re-inspect the work upon receipt of notice that the work, including inspection list items from any earlier inspections, has been completed, except items whose completion has been delayed because of circumstances acceptable to the Village.

Upon completion of inspection or re-inspection, the Village will prepare a notice of final acceptance, or advise the Contractor of work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance. If necessary, re-inspection will be repeated.

31. LIENS / WAIVERS

The Contractor shall submit in a timely manner a waiver of lien for each and every item of equipment procured or installed under this contract. No payment shall be made to the Contractor until all necessary waivers of lien are submitted to the Owner.

32. WARRANTY

The Contractor shall guarantee that the materials and workmanship of the installed equipment are of the highest quality in every respect and that he will make good any defects in materials or workmanship which may develop within one year from the date of final acceptance, at no cost to the Village.

All merchandise furnished by the Contractor is hereunder is unconditionally warranted by the Contractor for one year against defects in materials or workmanship.

If defects appear due to faulty workmanship or materials within the warranted period, the Contractor will upon receipt of notice thereof repair or replace same without charge to the Village. All other services furnished by the Contractor after installation and acceptance will be provided by the Contractor at the regular hourly rate for the trade required. The Contractor will provide such service through its own mechanics and subcontractors and shall charge only the effective rate with no profit added. Replacement merchandise and parts other than those furnished under warranty shall be provided at the same rates as the basic products sold under these General Conditions.

In the case of any work performed in correcting defects pursuant to the guarantees provided for by the Contractor the guarantee period shall begin anew from the date of the notice of acceptance of the repair work.

The forgoing remedies shall not deprive the Village of any action, right or remedy otherwise available for breach of any of the provisions of the Contract Documents by the Contractor and the periods referred to above and shall not be construed as a limitation on the time in which the Village may pursue other action, right or remedy.

33. PENALTY

The project is scheduled for a completion date of July 29, 2016. A dollar amount calculated by dividing the proposal figure submitted in the Schedule of Unit Prices for the total contract price by the 90 day contract period, but no less than \$250.00 shall be used in determining the penalty amount.

The Penalty amount shall be deducted from the final payment for each day or portion thereof, that the Contractor exceeds the 90 day construction period, which begins on the 10th day after the date of the notice to proceed is provided by the Village, less any authorized delays or extensions as allowed by the Village, at its sole discretion.

34. LAKE COUNTY DIVISION OF TRANSPORTATION INSURANCE REQUIREMENTS

The following Insurance Requirements are required by the Lake County Division of Transportation (LCDOT) for work within the LCDOT Right of Way. A complete listing of the insurance requirements can be found in the Lake County, IL Code of Ordinances, Chapter 90: Highway Access Regulation. The contractor must supply the Lake County Division of Transportation certificates of insurance as described in this section. A separate endorsement naming Lake County as an additional insured is also required. Example endorsement documents are included for reference.

GENERALLY

- (A) The County Engineer shall determine the minimum acceptable amounts for the following types of insurance, bodily injury liability and property damage liability. There shall be no restrictions on occurrence limits.
- (B) The owner shall cease, or cause to be ceased, operations, work, and construction of an improvement if the insurance is canceled or reduced below the required minimum amount of coverage as determined by the County Engineer.

CERTIFICATES OF INSURANCE.

- (A) Certificates of insurance, for all forms of insurance required by this chapter, shall be provided to the LCDOT prior to the issuance of an access permit for the construction or reconstruction of all types of access as provided for in this chapter. The County Engineer may, at his or her sole and exclusive discretion, upon receipt of written application from the property owner substantiating good and reasonable cause, allow the indemnification to be provided by someone other than the property owner for a single family homeowner, not-for-profit organization, or local agency. The certificate of insurance must include the permit number or the project name and county highway location on the certificate.
- (B) Certificates of insurance acceptable to the LCDOT shall be filed with the LCDOT prior to the issuance of a permit. A copy of one type of acceptable insurance CERTIFICATE can be found on LCDOT's website and will also be provided upon request.
- (C) The certificate(s) shall contain a provision that coverages afforded under the policies will not be canceled or non-renewed, and that restrictive modification cannot be added until at least 30 days after written notice has been given to LCDOT. A mere intent to notify LCDOT of cancellation is not acceptable.
- (D) Insurance coverages which are to remain in force and effect after completion of the construction will require an additional certificate(s) evidencing continuation of the coverages.
- (E) The additional certificate(s) shall be submitted upon completion and acceptance of the construction improvements and upon one year thereafter. If any information concerning reduction of coverage is not furnished by the insurer, it shall be furnished by the owner with reasonable promptness in accordance with the owner's information and belief. Any acceptance of insurance certificates by the LCDOT shall in no way limit or relieve the owner of the duties and responsibilities assumed by the owner. Acceptance of insurance certificates not in compliance with the provisions of these requirements by LCDOT shall not affect a waiver of these requirements.

ADDITIONAL INSURED ENDORSEMENTS.

With respect to commercial general liability policies and/or its equivalent form, the county and its' officers, agents, and employees, and the Lake County Division of Transportation, and its officers, agents and employees, shall be designated by endorsement as an additional insured under the policy(ies). The additional insured endorsement must be approved by the County Engineer, or a person designated by the County Engineer to approve the endorsement. The endorsement must demonstrate, in a manner acceptable to LCDOT, that the endorsement has been bound by the insurance company.

Examples of additional insured endorsements may be found on LCDOT's website and will also be provided upon request.

GENERAL INSURANCE CONDITIONS FOR ALL REQUIRED POLICIES.

- (A) With respect to all forms of insurance required per this chapter, the owner shall purchase from and maintain, in a company or companies lawfully authorized to do business in this state, with an A.M. Best's Rating of at least A-Class VIII, such insurance as which will protect the owner from claims set forth below which may arise out of or result from the owner's operations under the permit and for which the owner may be legally liable, whether the operations be by the owner or by a contractor or subcontractor or by anyone directly or indirectly employed by any of them, or for anyone for whose acts any of them may be liable.
- (B) Any deductible and/or self-insured retention shall be the responsibility of the owner.
- (C) All policies shall contain a provision that coverages afforded under the policies will not be canceled or non-renewed, and that restrictive modification cannot be added until at least 30 days after written notice has been given to LCDOT. A mere intent to notify LCDOT of cancellation is not acceptable.

WORKERS' COMPENSATION INSURANCE.

- (A) *Required.* Prior to the issuance of a permit by the LCDOT, the owner shall furnish to the LCDOT certificates of insurance covering Workers' Compensation, or satisfactory evidence that this liability is otherwise taken care of in accordance with §§ 4a-1 through 4a-9 of the Workers' Compensation Act of the State of Illinois, as amended.
- (B) *Duration of coverage.* This insurance, or other means of protection as herein provided, shall be kept in force until all work to be performed under the terms of the permit has been completed and accepted, and it is hereby understood and agreed that the maintenance of the insurance or other protection, until acceptance of the improvement by the LCDOT, is part of the permit. Failure to maintain the insurance, cancellation by the Industrial Commission of its approval of any other means of protection as might have been elected, or any other act which results in lack of protection under the Workers' Compensation Act may result in the revocation of the permit.

EMPLOYER'S LIABILITY.

- (A) *Required.* The owner shall obtain and maintain "employer's liability insurance" to respond to claims because of bodily injury, occupational sickness or disease or death of the owner's employees.
- (B) *Duration of coverage.* The insurance described in subsection (A)

above shall be maintained for the duration of the operations performed by or on behalf of the owner.

COMMERCIAL GENERAL LIABILITY INSURANCE.

- (A) The owner shall obtain and maintain commercial general liability (CGL) insurance on an occurrence basis as provided by the Commercial General Liability Coverage Form CG 00 01 (12 04), Insurance Services Office, Inc. or its equivalent or successor form or an equivalent policy of insurance. The Lake County Risk Management Department may, at its sole and exclusive discretion, determine what form(s) and policy (ies) are equivalent to the CGL ISO form. No restrictive endorsements pertaining to premises/operations insurance, contractual liability insurance, products and completed operations insurance or independent contractor's coverage may apply. The policy should respond to claims for damages because of "bodily injury" including death, "property damage", "ongoing operations", "completed operations", "personal injury", and "advertising injury".
- (B) (1) *Duration of CGL coverage.* The insurance described above shall be maintained for the duration of the operations performed by or on behalf of the owner. In addition, the owner shall continue to carry "complete operations" liability insurance for at least 24 months after the construction is complete. The owner shall furnish the LCDOT evidence of the insurance at completion of construction and one year thereafter after its acceptance by the LCDOT.
- (2) *CGL insurance conditions.*
- (a) The Lake County Division of Transportation and its officers, agents, and employees; the county and its officers, agents, and employees shall be named as additional insureds by endorsement per the requirements of § 90.257 set forth above.
- (b) The insurance shall be written on an occurrence basis. The owner's insurance shall be primary and non-contributory.
- (c) The policy shall contain the standard "separation of insureds" condition. The policy shall be endorsed to allow the general aggregate limit under limits of insurance of the policy to apply separately to each project and each location.

AUTOMOBILE LIABILITY.

- (A) The owner shall obtain and maintain business auto liability insurance as provided by the Business Auto Coverage Form CG 00 01 (12 07), Insurance Services Office, Inc., or its equivalent or successor form. The policy should respond to claims for damages because of bodily

injury, death of a person, or properly damage arising out of the ownership, maintenance, or use of a motor vehicle. This policy shall be written to cover any auto, whether owned, leased, hired, or borrowed.

(B) (1) *Duration of coverage.* The insurance described in subsection (A) above shall be maintained for the duration of the operations performed by or on behalf of the owner.

(2) *Insurance conditions.* The policy shall contain the standard "severability of interests" provisions.

MINIMUM LIMITS OF LIABILITY.

The owner's commercial general liability insurance, business automobile liability insurance, and employer's liability insurance as required by the preceding sections shall be written with limits of insurance not less than the following:

Commercial General Liability Insurance	
General Aggregate Limit *	\$2,000,000
Products-completed aggregate limit	\$2,000,000
Personal and advertising injury limit	\$1,000,000
Each occurrence limit	\$1,000,000
*Policy shall be endorsed for the general aggregate on a "per project" basis as well as a "per location" basis	

Employer's Liability Insurance	
Bodily injury by accident (each accident)	\$1,000,000
Bodily injury by disease (each employee)	\$1,000,000
Bodily injury by disease (policy limit)	\$1,000,000

Automobile Liability Insurance	
Bodily injury, property damage and covered pollution cost or expense (each occurrence limit)	\$1,000,000

SELF-INSURANCE.

- (A) (1) Any organization seeking a permit under this chapter, which is self-insured, must meet and/or exceed the requirements of the Illinois Department of insurance and the state statute(s) for self-insurers.
 - (2) Qualified legal counsel must provide a provision to be inserted within any self-insured documents and/or trust, which provides that the protection afforded the Lake County Division of Transportation, its officers, agents, and employees, and the county, its officers, agents, and employees will be the equivalent of the insurance protection required of those organizations which do purchase the required insurance coverages.
- (B) (1) LCDOT is not obligated to accept self-insurance by an organization in lieu of any or all of the insurance policies or coverages delineated above.
 - (2) The decision to accept or reject an organization's self-insurance shall be made solely and exclusively by the County Engineer at the County Engineer's discretion.

PENALTY.

- (A) Any person violating any provision of this chapter for which no specific penalty is prescribed shall be subject to § 10.99.
- (B) Whoever shall construct, or cause to be constructed, any access-related improvements in violation of the requirements of this chapter shall be subject to a fine of not less than \$100 and not more than \$500 for each access location so constructed. Each day that the access location is in place in violation of this chapter shall constitute a separate offense, subject to the above penalties.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – DESIGNATED
PERSON OR ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

- A. In the performance of your ongoing operations; or
- B. In connection with your premises owned by or rented to you.

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – DESIGNATED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART.

SCHEDULE

Name of Person or Organization:

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule as an insured but only with respect to liability arising out of your operations or premises owned by or rented to you.



STORMWATER MANAGEMENT COMMISSION

December 4, 2015

Mr. Bradford Woodbury
The Village of Lincolnshire
One Olde Half Day Road
Lincolnshire, IL 60069

Subject: SMC Watershed Development Permit #C00-28-006C
North Park Culvert Replacement

PERMIT ISSUANCE

Dear Mr. Woodbury:

Accompanying this letter is the required Watershed Development Permit for the proposed culvert replacement (42.22142, -87.90045). This approval is subject to the conditions on the back of the permit including the following:

- Providing the required review and inspection fee of \$760 (in kind replacement), pre-construction deposit of \$240 and an inspection deposit of \$720. This permit is being issued prior to receipt of the fee and deposits to facilitate the project timeline.
- Provide prior notification to Tim Cook (of the SMC) of the pre-construction meeting at least 5 calendar days in advance to enable SMC attendance. The refund for the \$240 pre-construction deposit can be requested, in writing, after the meeting. The \$720 deposit, minus any and all assessed fees, can be requested, in writing, after permanent site stabilization and approval of an as-built submittal.
- Impacts to Waters of the United States are not permitted unless a permit from the U.S. Army Corps of Engineers is received prior to any such impact. Please provide SMC with a copy of the final permit when available.
- Discussion at the preconstruction meeting will include:
 - Designated Erosion Control Inspector (DECI) contact information
 - Reduced copy of the permitted plan set that has been signed and sealed by a professional engineer
- The DECI shall provide weekly reports to the SMC Inspector. At a minimum, the reports shall include photographs and evaluation of critical areas, as directed by the SMC Inspector, including:
 - Dewatering activities
 - Areas of concentrated flow as it leaves the site (sediment free discharge)
 - Ensuring that the discharge culvert stays free flowing
- Please be advised that DECI inspections are required until final as-built approval.

500 W. Winchester Road • Libertyville, Illinois 60048 • 847/377-7700 • FAX 847/984-5747

- Provide an as-built submittal showing any deviations from the permitted plan set. If there are no deviations then an email stating that may be acceptable in lieu of an as-built submittal.

This approval is based on the plans entitled:

VILLAGE OF LINCOLNSHIRE, NORTH PARK CULVERT REPLACEMENT,
LINCOLNSHIRE, ILLINOIS, prepared by Bollinger, Lach & Associates, dated
6/6/15, last revised 12/02/15, received by SMC 12/2/15, 8-sheets
(electronic format)

We would like to be of assistance. Do not hesitate to contact Tim Cook at (847)377-7703 you have questions or would like to set up the pre-construction meeting.

If you have any additional concerns that have not been addressed by the regulatory staff, you may contact Chief Engineer Kurt Woolford kwoolford@lakecountyil.gov or Executive Director Michael Warner mwarner@lakecountyil.gov at (847) 377-7700.

If you would like to provide feedback regarding the SMC permit/inspection process please go to: (password – *survey*)

<http://www.lakecountyil.gov/Stormwater/Pages/PermitProcessSurvey.aspx>

<http://www.lakecountyil.gov/Stormwater/Pages/InspectionProcessSurvey-.aspx>

Sincerely,

LAKE COUNTY STORMWATER MANAGEMENT COMMISSION



Robert D. Gardiner, P.E., CFM
Permit Engineer



Kurt Woolford, P.E., CFM
Chief Engineer

C: Kevin Kenniff -- Bollinger
Ed Lebbos -- Bollinger
Melyssa Navis – USACE (LRC-2015-627)



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
CHICAGO DISTRICT, CORPS OF ENGINEERS
231 SOUTH LA SALLE STREET
CHICAGO, ILLINOIS 60604-1437

January 19, 2016

Technical Services Division
Regulatory Branch
LRC-2015-00627

SUBJECT: Request Authorization to Impact 0.0074 Acres of Wetlands for the North Park Culvert Replacement Project Located West Fork of North Branch Chicago River in the Village of Lincolnshire, Lake County, Illinois

Bradford Woodbury
Village of Lincolnshire
One Olde Half Day Road
Lincolnshire, IL 60069

Mr. Woodbury:

This office has verified that your proposed activity complies with the terms and conditions of Regional Permit 2 and Category I of the Regional Permit Program (RPP).

This verification expires three (3) years from the date of this letter and covers only your activity as described in your notification and as shown on the plans entitled "Village of Lincolnshire, North Park, Culvert Replacement, Lincolnshire, IL, Sheets 1-6" dated June 6, 2015 (revised October 22, 2015), prepared by Bollinger, Lach & Associates. Caution must be taken to prevent construction materials and activities from impacting waters of the United States beyond the scope of this authorization. If you anticipate changing the design or location of the activity, you should contact this office to determine the need for further authorization.

The activity may be completed without further authorization from this office provided the activity is conducted in compliance with the terms and conditions of the RPP, including conditions of water quality certification issued under Section 401 of the Clean Water Act by the Illinois Environmental Protection Agency (IEPA). If the design, location, or purpose of the project is changed, you should contact this office to determine the need for further authorization.

1. This authorization is contingent upon implementing and maintaining soil erosion and sediment controls in a serviceable condition throughout the duration of the project. You shall comply with the Lake County Stormwater Management Commission (LCSMC)'s written and verbal recommendations regarding the soil erosion and sediment control (SESC) plan and the installation and maintenance requirements of the SESC practices on-site.

- a. You shall schedule a preconstruction meeting with LCSMC to discuss the SESC plan and the installation and maintenance requirements of the SESC practices on the site. You shall contact the LCSMC at least 10 calendar days prior to the preconstruction meeting so that a representative may attend.
 - b. You shall notify the LCSMC or the LCSMC's designated agent of any changes or modifications to the approved plan set. Field conditions during project construction may require the implementation of additional SESC measures. If you fail to implement corrective measures, this office may require more frequent site inspections to ensure the installed SESC measures are acceptable.
 - c. Prior to commencement of any in-stream work, you shall submit construction plans and a detailed narrative disclosing the contractor's preferred method of cofferdam and dewatering method to the LCSMC or the LCSMC's designated agent. Work in the waterway shall NOT commence until the LCSMC notifies you, in writing, that the plans have been approved.
2. You are responsible for all work authorized herein and for ensuring that all contractors are aware of the terms and conditions of this authorization.
3. A copy of this authorization must be present at the project site during all phases of construction.
4. You shall notify this office of any proposed modifications to the project, including revisions to any of the plans or documents cited in this authorization. You must receive approval from this office before work affected by the proposed modification is performed.
5. You shall notify this office prior to the transfer of this authorization and liabilities associated with compliance with its terms and conditions.
6. Work in the waterway should be timed to take place during low or no-flow conditions. Low flow conditions are flow at or below the normal water elevation.
7. The plan will be designed to allow for the conveyance of the 2-year peak flow past the work area without overtopping the cofferdam. The Corps has the discretion to reduce this requirement if documented by the applicant to be infeasible or unnecessary.
8. Water shall be isolated from the in-stream work area using a cofferdam constructed of non-erodible materials (steel sheets, aqua barriers, rip rap and geotextile liner, etc.). Earthen cofferdams are not permissible.
9. The cofferdam must be constructed from the upland area and no equipment may enter flowing water at any time. If the installation of the cofferdam cannot be completed from shore and access is needed to reach the area to be coffered, other measures, such as the construction of a causeway, will be necessary to ensure that equipment does not enter the water. Once the cofferdam is in place and the isolated area is dewatered, equipment may enter the coffered area to perform the required work.

10. If bypass pumping is necessary, the intake hose shall be placed on a stable surface or floated to prevent sediment from entering the hose. The bypass discharge shall be placed on a non-erodible, energy dissipating surface prior to rejoining the stream flow and shall not cause erosion. Filtering of bypass water is not necessary unless the bypass water has become sediment-laden as a result of the current construction activities.
11. During dewatering of the coffered work area, all sediment-laden water must be filtered to remove sediment. Possible options for sediment removal include baffle systems, anionic polymers systems, dewatering bags, or other appropriate methods. Water shall have sediment removed prior to being re-introduced to the downstream waterway. A stabilized conveyance from the dewatering device to the waterway must be identified in the plan. Discharge water is considered clean if it does not result in a visually identifiable degradation of water clarity.
12. The portion of the side slope that is above the observed water elevation shall be stabilized as specified in the plans prior to accepting flows. The substrate and toe of slope that has been disturbed due to construction activities shall be restored to proposed or pre-construction conditions and fully stabilized prior to accepting flows.

The authorization is without force and effect until all other permits or authorizations from local, state, or other Federal agencies are secured. Please note that IEPA has issued Section 401 Water Quality Certification for this RP. These conditions are included in the enclosed fact sheet. If you have any questions regarding Section 401 certification, please contact Mr. Dan Heacock at IEPA's Division of Water Pollution Control, Permit Section #15, by telephone at (217) 782-3362.

Once you have completed the authorized activity, please sign and return the enclosed compliance certification. If you have any questions, please contact Melyssa R. Navis of my staff by telephone at 312-846-5533, or email at melyssa.r.navis@usace.army.mil.

Sincerely,
CHERNICH.KATHLEEN.G.12
30365616
2016.01.28 16:51:11 -06'00'
Kathleen G. Chernich
Chief, East Section
Regulatory Branch

Enclosures

Copy Furnished:

Lake County Stormwater Management Commission (Kurt Woolford)
Lake County Planning, Building and Development Department (Steve Crivello)
Bollinger, Lach & Associates (Edmond Lebbos)



PERMIT COMPLIANCE CERTIFICATION

Permit Number: LRC-2015-00627
Permittee: Village of Lincolnshire
Date: January 19, 2016

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of said permit and if applicable, compensatory wetland mitigation was completed in accordance with the approved mitigation plan.¹

PERMITTEE

DATE

Upon completion of the activity authorized by this permit and any mitigation required by the permit, this certification must be signed and returned to the following address:

U.S. Army Corps of Engineers
Chicago District, Regulatory Branch
231 South LaSalle Street, Suite 1500
Chicago, Illinois 60604-1437

Please note that your permitted activity is subject to compliance inspections by Corps of Engineers representatives. If you fail to comply with this permit, you may be subject to permit suspension, modification, or revocation.

¹ If compensatory mitigation was required as part of your authorization, you are certifying that the mitigation area has been graded and planted in accordance with the approved plan. You are acknowledging that the maintenance and monitoring period will begin after a site inspection by a Corps of Engineers representative or after thirty days of the Corps' receipt of this certification. You agree to comply with all permit terms and conditions, including additional reporting requirements, for the duration of the maintenance and monitoring period.

CELRC-TS-R
Application LRC-2015-00627

MEMORANDUM FOR RECORD

SUBJECT: Department of the Army Memorandum Documenting Nationwide Permit/Regional General Permit Verification

Applicant: Village of Lincolnshire, One Olde Half Day Road, Lincolnshire, IL 60069

Project Description (*Describe activities in waters of the U.S. considered for verification*):
Impact Wetlands for the North Park Culvert Replacement Project Located West Fork of North Branch Chicago River in the Village of Lincolnshire, Lake County, Illinois

Project Location (*Waterway, Section, Township, Range, City, County, State*): West Fork of North Branch Chicago River in the Village of Lincolnshire, Lake County, Illinois (Quarter Section 12, Township 43 N, Range 11 E), Latitude: 42.2216, Longitude: -87.9006

Waters of the US: Yes

*see Jurisdictional Determination form(s) and/or Preliminary JD letter(s) dated: NA

Authority: Section 10 Section 404

Type of Permit Requested: NWP # RGP # 2 PGP#

Pre-construction Notification Required: Yes No

Pre-Construction Notification Receipt Date: August 20, 2015
Complete? Yes No

Additional Information Requested Date: October 13, 2015

Pre-Construction Notification Complete Date: December 10, 2015

Coordination with Agencies/Tribes Needed (PCN/ARC):

Yes No Date:

Resolution:

Commenting Agencies:

US Fish and Wildlife Service Yes No

US Environmental Protection Agency Yes No

Illinois Department of Natural Resources Yes No

Illinois Historic Preservation Agency Yes No

Illinois Environment Protection Agency Yes No

Other:

Substantive Issues Raised and Corps Resolution (*Consideration of Comments*): NA

Compliance with Other Federal Laws (*If specific law is not applicable write N/A*):

a) Endangered Species Act (ESA):

Applicant submitted ESA information for review: **Yes**

Effects determination: **No Effect**

Basis for "no effect" determination: **N/A**

Name of species present: **NA**

Date of Service(s) concurrence: **NA**

Additional information (optional): **NA**

b) Magnuson-Stevens Act (Essential Fish Habitat): N/A

Name of species present:

Effects determination:

Date of Service(s) concurrence:

Basis for "no effect" determination:

Additional information (optional):

c) Section 106 of the National Historic Preservation Act:

Known site present: yes no

Survey required/conducted: yes no

Effects determination: **NA**

Rationale: **NA**

Date consultation complete (if necessary): **NA**

Additional information (optional): **NA**

d) Section 401 Water Quality Certification:

Issued with RP, GP or RGP: yes no

Individual certification required: yes no

Issued Waived Denied

e) Coastal Zone Management Act: N/A

Individual certification required: yes no

Issued Waived Denied

Additional information (optional):

f) Wild and Scenic Rivers Act: N/A

g) Other: NA

Regional Permit Requirements:

- a) Permanent Best Management Practices (BMPs): Not Required
- b) Describe approved BMPs: NA
- c) Buffers: Not Required
- d) Describe approved buffers NA
- e) Soil erosion and sediment control (SESC) review: LCSMC
- f) Notification to SWCD/LCSMC: Letter "SESC Fax"
- g) SESC reviewed by SWCD/LCSMC and meets technical standards: Yes
- h) Site Adjacent to Conservation Area: No
- i) Impacts to HQAR: No

Special Conditions required (include rationale for each required condition/explanation for requiring no special conditions): yes no

Rationale: Special Conditions, if required, were added to ensure that the project would result in no more than minimal individual and cumulative adverse environmental effects.

Compensatory Mitigation Determination: The applicant has avoided and minimized impacts to the maximum extent practicable.

- (1) Is compensatory mitigation required for unavoidable impacts to jurisdictional aquatic resources to reduce the individual and cumulative adverse environmental effects to a minimal level?
yes no Mitigation is not required for impacts of less than 0.1 acre.
- (2) Is the impact in the service area of an approved mitigation bank? yes no
 - i. Does the mitigation bank have appropriate number and resource type of credits available? yes no
- (3) Is the impact in the service area of an approved in-lieu fee program? yes no
 - i. Does the in-lieu fee program have appropriate number and resource type of credits available? yes no
- (4) Check the selected compensatory mitigation option(s):
 - mitigation bank credits
 - in-lieu fee program credits
 - permittee-responsible mitigation under a watershed approach
 - permittee-responsible mitigation, on-site and in-kind
 - permittee-responsible mitigation, off-site and out-of-kind

CELRC-TS-R (Application LRC-2015-00627)

SUBJECT: Department of the Army Memorandum Documenting Nationwide Permit/Regional General Permit Verification for the Above-Numbered Permit Application

- (5) If a selected compensatory mitigation option deviates from the order of the options presented in §332.3(b) (2)-(6), explain why the selected compensatory mitigation option is environmentally preferable. Address the criteria provided in §332.3(a)(1) (i.e., the likelihood for ecological success and sustainability, the location of the compensation site relative to the impact site and their significance within the watershed, and the costs of the compensatory mitigation project):

Determination (*Reference General Condition 27(e)*):

The proposed activity, with proposed mitigation (if applicable) would result in no more than minimal individual and cumulative adverse environmental effects and would not be contrary to the public interest and *provided the special conditions and/or modifications identified in the above are incorporated*. This project complies with all terms and conditions of RGP 2 including any applicable regional conditions.

PREPARED BY:

Melyssa R. Navis
Project Manager
Regulatory Branch

REVIEWED BY:

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Kathleen G. Chernich
Chief, East Section
Regulatory Branch

Lake County Prevailing Wage for July 2015

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng			
=====	==	===	=	=====	=====	=====	===	===	=====	=====	=====	=====			
ASBESTOS ABT-GEN		ALL		39.400	39.950	1.5	1.5	2.0	13.98	10.72	0.000	0.500			
ASBESTOS ABT-MEC		BLD		36.340	38.840	1.5	1.5	2.0	11.47	10.96	0.000	0.720			
BOILERMAKER		BLD		47.070	51.300	2.0	2.0	2.0	6.970	18.13	0.000	0.400			
BRICK MASON		BLD		43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030			
CARPENTER		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630			
CEMENT MASON		ALL		42.050	44.050	2.0	1.5	2.0	10.00	19.24	0.000	0.500			
CERAMIC TILE FNSHER		BLD		36.810	0.000	1.5	1.5	2.0	10.55	9.230	0.000	0.770			
COMMUNICATION TECH		BLD		35.130	37.230	1.5	1.5	2.0	11.07	11.77	0.000	0.530			
ELECTRIC PWR EQMT OP		ALL		0.000	0.000	0.0	0.0	0.0	0.000	0.000	0.000	0.000			
ELECTRIC PWR EQMT OP		HWY		39.220	53.290	1.5	1.5	2.0	5.000	12.17	0.000	0.390			
ELECTRIC PWR GRNDMAN		ALL		30.330	53.290	1.5	1.5	2.0	5.000	9.400	0.000	0.300			
ELECTRIC PWR GRNDMAN		HWY		30.330	53.290	1.5	1.5	2.0	5.000	9.400	0.000	0.300			
ELECTRIC PWR LINEMAN		ALL		45.360	51.480	1.5	1.5	2.0	5.000	14.06	0.000	0.450			
ELECTRIC PWR LINEMAN		HWY		46.950	53.290	1.5	1.5	2.0	5.000	14.56	0.000	0.470			
ELECTRIC PWR TRK DRV		ALL		30.340	51.480	1.5	1.5	2.0	5.000	9.400	0.000	0.300			
ELECTRIC PWR TRK DRV		HWY		31.400	53.290	1.5	1.5	2.0	5.000	9.730	0.000	0.310			
ELECTRICIAN		BLD		39.400	43.340	1.5	1.5	2.0	13.59	15.71	0.000	0.640			
ELEVATOR CONSTRUCTOR		BLD		50.800	57.150	2.0	2.0	2.0	13.57	14.21	4.060	0.600			
FENCE ERECTOR		ALL		37.340	39.340	1.5	1.5	2.0	13.05	12.06	0.000	0.300			
GLAZIER		BLD		40.500	42.000	1.5	2.0	2.0	13.14	16.99	0.000	0.940			
HT/FROST INSULATOR		BLD		48.450	50.950	1.5	1.5	2.0	11.47	12.16	0.000	0.720			
IRON WORKER		ALL		44.200	46.200	2.0	2.0	2.0	13.65	21.14	0.000	0.350			
LABORER		ALL		39.200	39.950	1.5	1.5	2.0	13.98	10.72	0.000	0.500			
LATHER		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630			
MACHINIST		BLD		45.350	47.850	1.5	1.5	2.0	7.260	8.950	1.850	0.000			
MARBLE FINISHERS		ALL		32.400	34.320	1.5	1.5	2.0	10.05	13.75	0.000	0.620			
MARBLE MASON		BLD		43.030	47.330	1.5	1.5	2.0	10.05	14.10	0.000	0.780			
MATERIAL TESTER I		ALL		29.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500			
MATERIALS TESTER II		ALL		34.200	0.000	1.5	1.5	2.0	13.98	10.72	0.000	0.500			
MILLWRIGHT		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630			
OPERATING ENGINEER		BLD	1	48.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		BLD	2	46.800	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		BLD	3	44.250	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		BLD	4	42.500	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		BLD	5	51.850	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		BLD	6	49.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		BLD	7	51.100	52.100	2.0	2.0	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		FLT	1	53.600	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250			
OPERATING ENGINEER		FLT	2	52.100	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250			
OPERATING ENGINEER		FLT	3	46.400	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250			
OPERATING ENGINEER		FLT	4	38.550	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250			
OPERATING ENGINEER		FLT	5	55.100	53.600	1.5	1.5	2.0	17.10	11.80	1.900	1.250			
OPERATING ENGINEER		FLT	6	35.000	35.000	1.5	1.5	2.0	16.60	11.05	1.900	1.250			
OPERATING ENGINEER		HWY	1	46.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		HWY	2	45.750	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		HWY	3	43.700	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		HWY	4	42.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		HWY	5	41.100	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		HWY	6	49.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250			
OPERATING ENGINEER		HWY	7	47.300	50.300	1.5	1.5	2.0	17.55	12.65	1.900	1.250			
ORNAMNTL IRON WORKER		ALL		45.000	47.500	2.0	2.0	2.0	13.55	17.94	0.000	0.650			
PAINTER		ALL		41.750	46.500	1.5	1.5	1.5	11.50	11.10	0.000	0.770			
PAINTER SIGNS		BLD		33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000			
PILEDRIVER		ALL		44.350	46.350	1.5	1.5	2.0	11.79	16.39	0.000	0.630			
PIPEFITTER		BLD		46.000	49.000	1.5	1.5	2.0	9.000	15.85	0.000	1.780			
PLASTERER		BLD		43.430	46.040	1.5	1.5	2.0	13.05	14.43	0.000	1.020			
PLUMBER		BLD		46.650	48.650	1.5	1.5	2.0	13.18	11.46	0.000	0.880			
ROOFER		BLD		41.000	44.000	1.5	1.5	2.0	8.280	10.54	0.000	0.530			
SHEETMETAL WORKER		BLD		42.230	45.610	1.5	1.5	2.0	10.53	20.68	0.000	0.720			
SIGN HANGER		BLD		31.310	33.810	1.5	1.5	2.0	4.850	3.280	0.000	0.000			
SPRINKLER FITTER		BLD		49.200	51.200	1.5	1.5	2.0	11.75	9.650	0.000	0.550			
STEEL ERECTOR		ALL		42.070	44.070	2.0	2.0	2.0	13.45	19.59	0.000	0.350			
STONE MASON		BLD		43.780	48.160	1.5	1.5	2.0	10.05	14.43	0.000	1.030			
SURVEY WORKER															
				-->NOT IN EFFECT	ALL		37.000	37.750	1.5	1.5	2.0	12.97	9.930	0.000	0.500

TERRAZZO FINISHER	BLD	38.040	0.000	1.5	1.5	2.0	10.55	11.22	0.000	0.720
TERRAZZO MASON	BLD	41.880	44.880	1.5	1.5	2.0	10.55	12.51	0.000	0.940
TILE MASON	BLD	43.840	47.840	1.5	1.5	2.0	10.55	11.40	0.000	0.990
TRAFFIC SAFETY WRKR	HWY	32.750	34.350	1.5	1.5	2.0	6.550	6.450	0.000	0.500
TRUCK DRIVER	ALL 1	36.560	36.760	1.5	1.5	2.0	9.070	7.050	0.000	0.000
TRUCK DRIVER	ALL 2	36.000	36.400	1.5	1.5	2.0	7.200	6.000	0.000	0.150
TRUCK DRIVER	ALL 3	36.200	36.400	1.5	1.5	2.0	7.200	6.000	0.000	0.150
TRUCK DRIVER	ALL 4	36.400	36.400	1.5	1.5	2.0	7.200	6.000	0.000	0.150
TUCKPOINTER	BLD	43.800	44.800	1.5	1.5	2.0	8.280	13.49	0.000	0.670

Legend: RG (Region)
 TYP (Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers)
 C (Class)
 Base (Base Wage Rate)
 FRMAN (Foreman Rate)
 M->8 (OT required for any hour greater than 8 worked each day, Mon through Fri.
 OSA (Overtime (OT) is required for every hour worked on Saturday)
 OSH (Overtime is required for every hour worked on Sunday and Holidays)
 H/W (Health & Welfare Insurance)
 Pensn (Pension)
 Vac (Vacation)
 Trng (Training)

Explanations

LAKE COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATION TECHNICIAN

Low voltage construction, installation, maintenance and removal of

telecommunication facilities (voice, sound, data and video) including outside plant, telephone, security systems and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area network), LAN (local area networks), and ISDN (integrated system digital network), pulling of wire in raceways, but not the installation of raceways.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under; Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEER - FLOATING

Class 1. Craft Foreman; Master Mechanic; Diver/Wet Tender; Engineer; Engineer (Hydraulic Dredge).

Class 2. Crane/Backhoe Operator; Boat Operator with towing endorsement; Mechanic/Welder; Assistant Engineer (Hydraulic Dredge); Leverman (Hydraulic Dredge); Diver Tender.

Class 3. Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more); Tug/Launch Operator; Loader/Dozer and like equipment on Barge, Breakwater Wall, Slip/Dock, or Scow, Deck Machinery, etc.

Class 4. Deck Equipment Operator, Machineryman/Fireman (4 Equipment Units or More); Off Road Trucks; Deck Hand, Tug Engineer, Crane Maintenance (50 Ton Capacity and Under) or Backhoe Weighing (115,000 pounds or less); Assistant Tug Operator.

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

SURVEY WORKER - Operated survey equipment including data collectors, G.P.S. and robotic instruments, as well as conventional levels and transits.

TRAFFIC SAFETY - work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary lane markings, and the installation and removal of temporary road signs.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

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

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".

VILLAGE OF LINCOLNSHIRE NORTH PARK CULVERT REPLACEMENT

LINCOLNSHIRE, ILLINOIS

NE 1/4 SECTION 12, TOWNSHIP 43 N, RANGE 11 E



PROJECT LOCATION MAP
NO SCALE

PROJECT LOCATION
SCOPE OF WORK:
REMOVE AND REPLACE
EXISTING CULVERT
BENEATH NATURE TRAIL.

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES & DETAILS
3. TOPOGRAPHIC SURVEY
4. GRADING PLAN
5. EROSION CONTROL PLAN
6. IMPACT & RESTORATION PLAN
- 7-8. DETAILS
9. SITE ACCESS PLAN

BENCHMARKS

1. PROJECT BENCHMARK:
VILLAGE OF LINCOLNSHIRE BENCHMARK. CROSS CUT IN BACK OF CURB ON THE NORTHEAST PATKIG LOT CORNER OF THE NORTH PARK FACILITY WHERE THE PARKING LOT MEETS THE WALKING PATH. LAT: 1101298.8564, LONG: 2022969.3454. ELEV.= 675.991 (NAVD 88).
2. SITE BENCHMARK:
RAIL ROAD SPIKE SET APPROXIMATELY 27.6 FEET EAST OF THE CULVERT AND APPROXIMATELY 4.3' SOUTH OF THE PATH. LAT: 1101951.74, LONG: 2023198.46. ELEV.= 671.7 (NAVD 88).

EXISTING	REMOVAL	PROPOSED	LEGEND
[Symbol]	[Symbol]	[Symbol]	PROPERTY LINE
[Symbol]	[Symbol]	[Symbol]	RIGHT-OF-WAY LINE
[Symbol]	[Symbol]	[Symbol]	EASEMENT LINE
[Symbol]	[Symbol]	[Symbol]	CONTOUR LINE (MAJOR)
[Symbol]	[Symbol]	[Symbol]	CONTOUR LINE (MINOR)
[Symbol]	[Symbol]	[Symbol]	EDGE OF WATER
[Symbol]	[Symbol]	[Symbol]	TREE LINE
[Symbol]	[Symbol]	[Symbol]	FENCE
[Symbol]	[Symbol]	[Symbol]	SANITARY SEWER LINE
[Symbol]	[Symbol]	[Symbol]	SANITARY SEWER LINE SECTION, PROFILE VIEWS
[Symbol]	[Symbol]	[Symbol]	STORM SEWER LINE
[Symbol]	[Symbol]	[Symbol]	STORM SEWER LINE SECTION, PROFILE VIEWS
[Symbol]	[Symbol]	[Symbol]	WATER LINE
[Symbol]	[Symbol]	[Symbol]	WATER LINE SECTION, PROFILE VIEWS
[Symbol]	[Symbol]	[Symbol]	ELECTRIC LINE
[Symbol]	[Symbol]	[Symbol]	TELEPHONE LINE
[Symbol]	[Symbol]	[Symbol]	FIBER OPTIC LINE
[Symbol]	[Symbol]	[Symbol]	CABLE TELEVISION LINE
[Symbol]	[Symbol]	[Symbol]	OVERHEAD WIRE
[Symbol]	[Symbol]	[Symbol]	GAS MAIN
[Symbol]	[Symbol]	[Symbol]	GAS MAIN SECTION, PROFILE VIEWS
[Symbol]	[Symbol]	[Symbol]	SILT FENCE
[Symbol]	[Symbol]	[Symbol]	CONCRETE CURB & GUTTER
[Symbol]	[Symbol]	[Symbol]	DEPRESSED CURB & GUTTER
[Symbol]	[Symbol]	[Symbol]	STORM MANHOLE
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[Symbol]	[Symbol]	[Symbol]	EVERGREEN TREE WITH SIZE
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PREPARED BY:

B Bollinger, Lach & Associates, Inc.
333 PIERCE ROAD, SUITE 200 ITASCA, IL 60143
P:(630) 438-6400 F:(630) 438-6444 www.bollingerlach.com

PROJECT MANAGER: [Signature]
PAGES: 1-9 DATE: 03/27/16

KEVIN E. KENNIF
082-054009
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
08/11/2017

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B. PER SMC COMMENTS - 12/02/2015
C. PER VILLAGE COMMENTS - 03/20/2016
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PREPARED FOR:
VILLAGE OF LINCOLNSHIRE
ONE OLDE HALF DAY ROAD
LINCOLNSHIRE, ILLINOIS 60069
P:(847)913-2381

Bollinger, Lach & Associates, Inc.
333 PIERCE ROAD, SUITE 200 ITASCA, IL 60143
P:(630) 438-6400 F:(630) 438-6444 www.bollingerlach.com
ITASCA * CHICAGO * ALGONQUIN * LAKE GRIEVA * SOUTH BEND * INDIANAPOLIS
Design Firm License No. 184-001129

COVER SHEET
NORTH PARK CULVERT REPLACEMENT
LINCOLNSHIRE, ILLINOIS

SHEET NUMBER
1
OF 9

GENERAL NOTES

- ALL ROADWAY CONSTRUCTION SHALL CONFORM TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND ALL AMENDMENTS THERETO AND IN ACCORDANCE WITH THE LATEST EDITION OF THE SPECIFICATIONS FOR CONSTRUCTION IN THE VILLAGE OF LINCOLNSHIRE. IN CASE OF CONFLICT, VILLAGE CODE SHALL TAKE PRECEDENCE.
- ALL STORM SEWER, SANITARY SEWER AND WATERMAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION, UNLESS OTHERWISE NOTED ON THE PLANS.
- STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE UTILITIES. ALL UTILITIES DAMAGED AND/OR DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. LOCATIONS AS SHOWN ARE APPROXIMATE AND ARE BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 FOR UTILITY LOCATIONS.
- NO PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED FOR CONSTRUCTION. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- NOTIFICATION OF COMMENCING CONSTRUCTION
 - THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES, EITHER COUNTY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.
 - FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME, WHICH RESULTS IN TESTING COMPANIES TO BE UNABLE TO VISIT SITE AND PERFORM REQUIRED TESTING, WILL CAUSE CONTRACTOR TO SUSPEND OPERATION (PERTAINING TO TESTING) UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK TO BE BORNE BY CONTRACTOR.
- ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE OWNER'S ENGINEER AT CONTRACTOR'S EXPENSE.
- ANY EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS OWN EXPENSE AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET, SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.
- REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB AND GUTTER, CULVERTS, EXCESS EXCAVATION, ETC. SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR SHALL BE REROUTED OR RESTORED TO PROPER OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILES OR DRAINAGE PIPES ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE FOUND TO BE IN CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICE AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITION AND IN ACCORDANCE WITH THE VILLAGE OF LINCOLNSHIRE SUBDIVISION REGULATION ORDINANCE. NAME AND EMERGENCY PHONE NUMBERS SHALL BE GIVEN TO THE CITY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE, RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
- NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE OWNER PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE, AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET.
- ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A PAY ITEM IS LISTED ON THE BID LIST.
- AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
- TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.
- WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STRUCTURE AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR SYSTEMS WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL AND DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE. NO PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT.
- ANY DEWATERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK.

- EXCAVATIONS SHALL BE KEPT DRY AT ALL TIMES DURING CONSTRUCTION. APPROPRIATE FACILITIES TO MAINTAIN THE DRY EXCAVATIONS SHALL BE PROVIDED BY THE CONTRACTOR AND THE COST OF SUCH SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE ITEM. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION.
- EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL.
- ALL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR.
- A COPY OF THE APPROVED STAMPED PLANS AND SPECIFICATIONS AND OTHER AGENCIES' PERMITS (I.E. COUNTY HIGHWAY, ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, ETC.) MUST BE KEPT ON THE JOB SITE DURING CONSTRUCTION.
- CHANGES IN THE ENGINEERING PLANS MUST BE APPROVED BY THE ENGINEER. A WRITTEN REQUEST, ACCOMPANIED BY REVISED ENGINEERING PLANS, ARE TO BE SUBMITTED AND APPROVED BEFORE CONSTRUCTION OF CHANGES ARE STARTED.
- THE VILLAGE OF LINCOLNSHIRE SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL EXISTING PARK SIGNAGE AS REQUIRED BY CONSTRUCTION OPERATIONS. CONTRACTOR TO NOTIFY THE VILLAGE OF LINCOLNSHIRE OF SIGNAGE REMOVAL REQUESTS 48 HOURS IN ADVANCE OF THE WORK.

MASS GRADING / EARTHWORK

- PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK OPERATIONS, THE SITE SHALL BE CLEARED IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, LATEST EDITION. CLEARING SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS SUCH AS FENCES, WALLS, FOUNDATIONS, BUILDINGS, ACCUMULATIONS OF RUBBISH OF WHATEVER NATURE, EXISTING STRUCTURES, ALL LOGS, SHRUBS, BUSHES, SAPLINGS, GRASS, WEEDS, OTHER VEGETATION, AND STUMPS OF LESS THAN SIX (6) INCHES IN DIAMETER. CLEARING SHALL EXTEND TO THE LIMITS OF DEVELOPMENT AND SHALL INCLUDE ALL ITEMS NOT SPECIFICALLY MARKED FOR PROTECTION.
- THE CONTRACTOR SHALL STRIP AND STOCKPILE ALL TOPSOIL/ORGANIC MATERIALS AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND AS LISTED IN THE SOILS REPORT. THE TOPSOIL SHALL BE STOCKPILED IN OWNER DESIGNATED AREAS AS DETAILED ON THE DEVELOPMENT PLANS.
- NO MATERIALS SHALL BE STOCKPILED IN FLOODPLAIN AREAS, WETLAND AREAS, OR SPECIAL MANAGEMENT AREAS.
- EARTHWORK OPERATIONS SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARTICLES OF SECTION 200 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, CURRENT EDITION.
- EARTH EXCAVATION SHALL BE IN ACCORDANCE WITH THE SECTION 202 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, CURRENT EDITION. EMBANKMENT SHALL CONFORM WITH SECTION 205 OF THE STANDARD SPECIFICATIONS.
- EXCAVATION OF EARTH AND OTHER MATERIALS SUITABLE FOR USE AS STRUCTURAL FILL SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS.
- PLACEMENT OF STRUCTURAL FILL (EARTH AND OTHER SUITABLE MATERIALS) IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS SHALL BE WITHIN A TOLERANCE OF 0.1 FEET. THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION. EARTH MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, TO WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THE EARTH MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.
- EXCESS MATERIALS, IF NOT UTILIZED AS FILL OR IF DETERMINED TO BE UNSUITABLE BY THE SOILS ENGINEER, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL, AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.
- POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. STORM WATER SHALL BE PREVENTED FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION AND TRAFFIC.
- ALL EXCESS TRENCH SPOIL SHALL BE SPREAD AND COMPACTED UNIFORMLY TO THE DEGREE SPECIFIED AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.
- THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT SHALL BE SCARIFIED AND COMPACTED TO THE DEGREE SPECIFIED. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.
- WATER SHALL BE PROVIDED TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS DESCRIBED ON THE PLANS.
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL DISPOSE OF ALL DEBRIS AND ALL EXCAVATED, CUT, AND SURPLUS MATERIALS, INCLUDING EXCESS TOPSOIL, UTILITY TRENCH SPOIL, AND FOUNDATION/FOOTING SPOIL, IN A LEGAL MANNER SUCH THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL REVIEW ALL SUBSURFACE/SOILS REPORTS, COPIES OF WHICH WILL BE MADE AVAILABLE, PERFORM SITE INSPECTION, AND VERIFY EXISTING TOPOGRAPHIC INFORMATION. ANY DISCREPANCY IN FINDINGS/CONCLUSIONS REGARDING EXISTING SITE CONDITIONS SHALL BE RESOLVED PRIOR TO THE START OF ANY EARTHWORK OPERATIONS. COMMENCEMENT OF EARTHWORK OPERATIONS INDICATES THAT THE CONTRACTOR HAS REVIEWED ALL AVAILABLE SITE INVESTIGATION DATA AND BASED HIS BID ACCORDINGLY.

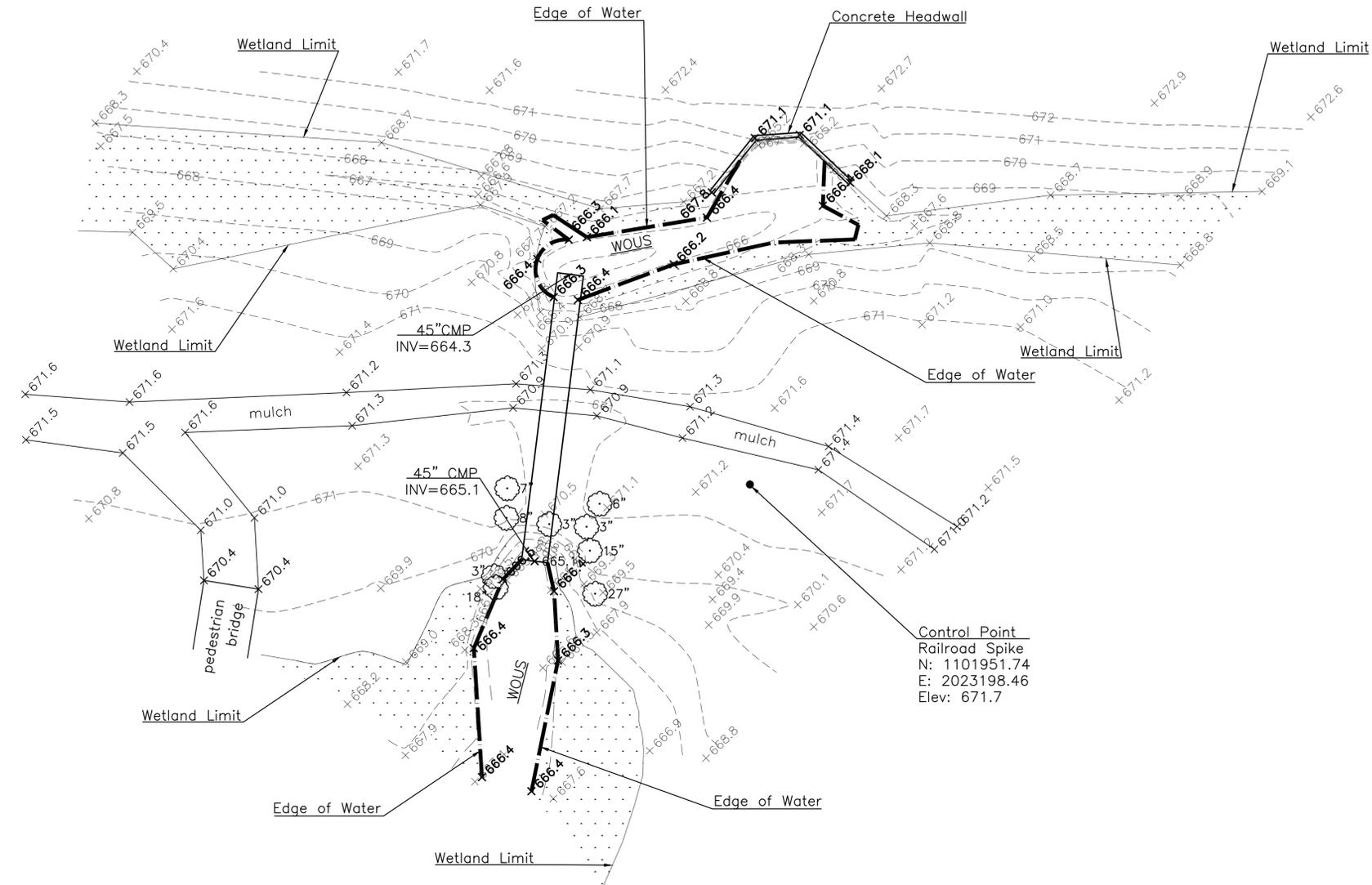
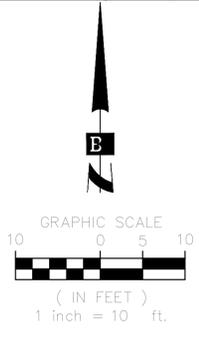
SEDIMENT AND EROSION CONTROL NOTES

- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
 - AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- ALL STOCK PILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCK PILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE Routed THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

TYPICAL CONSTRUCTION SEQUENCE

- INSTALL EROSION AND SEDIMENT CONTROL MEASURES
 - SILT FENCE/TRIANGULAR SILT DIKE/COIR LOG INSTALLATION
 - CONSTRUCTION FENCING AROUND EXCAVATION AREA
 - STABILIZED CONSTRUCTION ENTRANCE
- DEMOLISH EXISTING STRUCTURES
- FOUNDATION EXCAVATION
- FOUNDATION/STRUCTURE CONSTRUCTION
- ROADWAY CONSTRUCTION
- PERMANENT SEEDING / PLANTING
- REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER SITE IS STABILIZED WITH VEGETATION.

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	DRAWN BY: KEK CHECKED BY: EL COMPLETED: 08/08/15
PREPARED FOR: VILLAGE OF LINCOLNSHIRE ONE OLDE HALF DAY ROAD LINCOLNSHIRE, ILLINOIS 60069 P: (847)-913-2381	
CONSULTING ENGINEERS, SCIENTISTS & LAND SURVEYORS Bollinger, Lach & Associates, Inc. 333 PIERCE ROAD SUITE 200 ITASCA, IL 60143 P: (630) 438 6460 F: (630) 438 6444 www.bollingerlach.com ITASCA - CHICAGO - ALGONQUIN - LAKE GENEVA - SOUTH BEND - INDIANAPOLIS	
GENERAL NOTES & DETAILS NORTH PARK CULVERT REPLACEMENT LINCOLNSHIRE, ILLINOIS	
SHEET NUMBER 2 OF 9	



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△ CLARIFIED WETLAND/WOUS - 10/22/2015	FIELD WORK:
△	DRAWN BY: KEK
△	CHECKED BY: EL
△	COMPLETED: 08/08/15

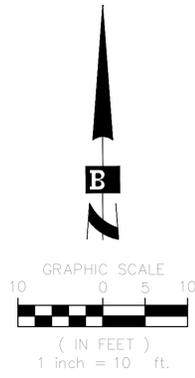
PREPARED FOR:
VILLAGE OF LINCOLNSHIRE
 ONE OLDE HALF DAY ROAD
 LINCOLNSHIRE, ILLINOIS 60069
 P: (847) 913-2381

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD SUITE 200 ITASCA, IL 60143
 P: (800) 438 6400 P: (630) 438 6444 www.bollingerlach.com
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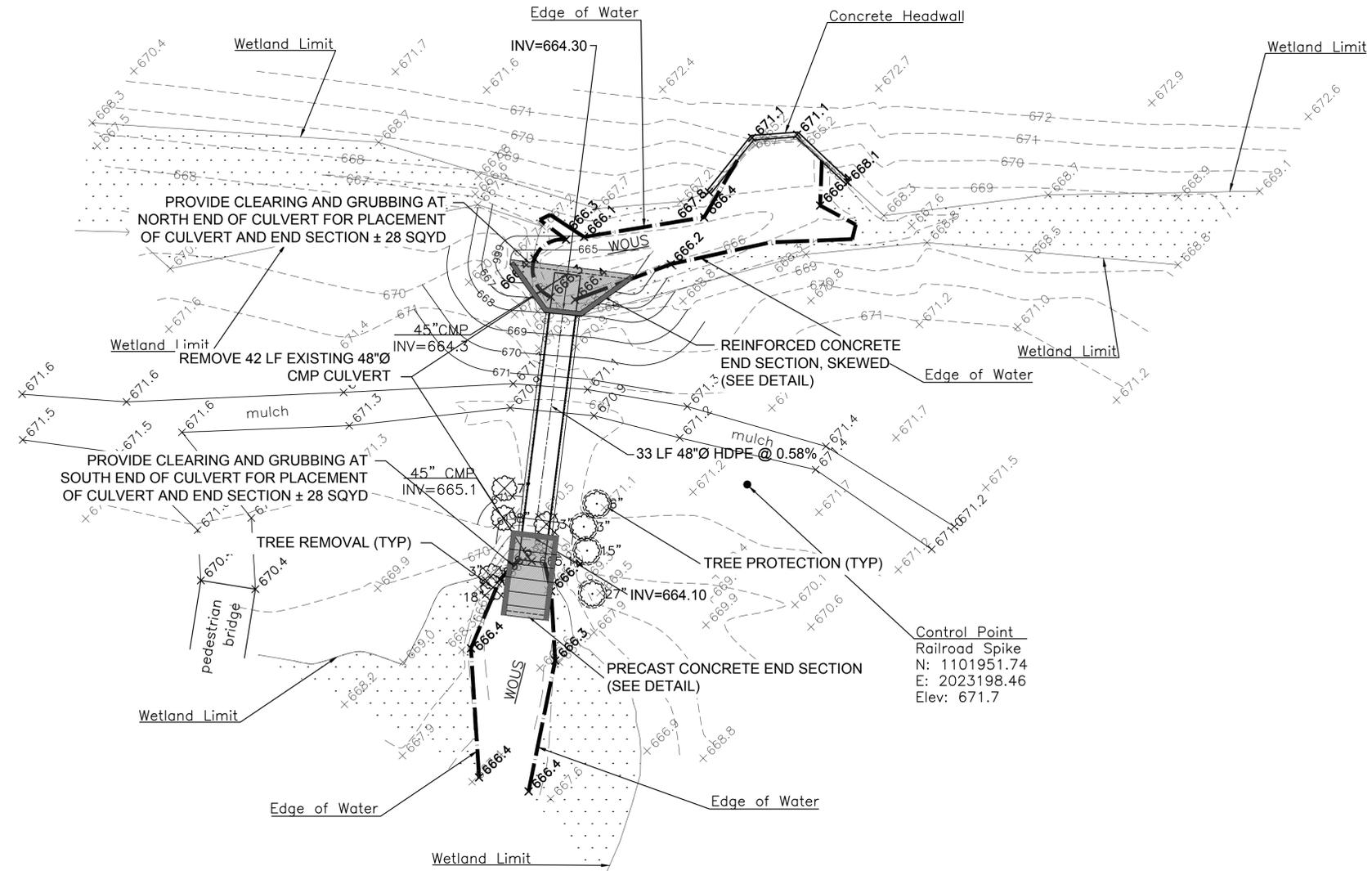


TOPOGRAPHIC SURVEY
 NORTH PARK CULVERT REPLACEMENT
 LINCOLNSHIRE, ILLINOIS

SHEET NUMBER
3
 OF 9



ACCESS TO PROJECT SITE
TO BE PROVIDED FROM THE
EXISTING FIELD ENTRANCE
ON W. EVERETT ROAD



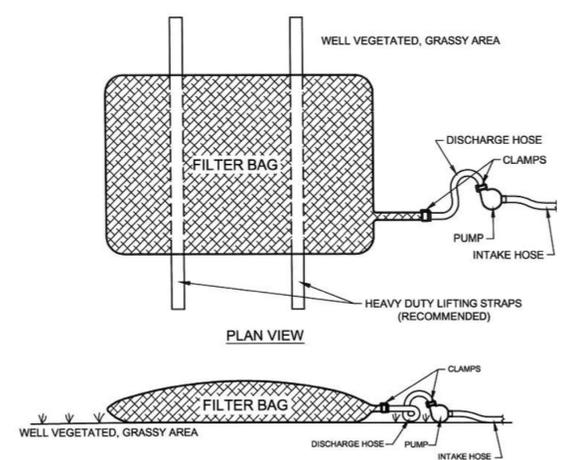
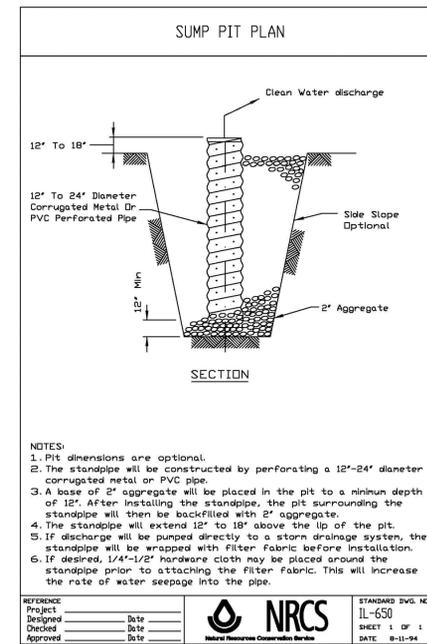
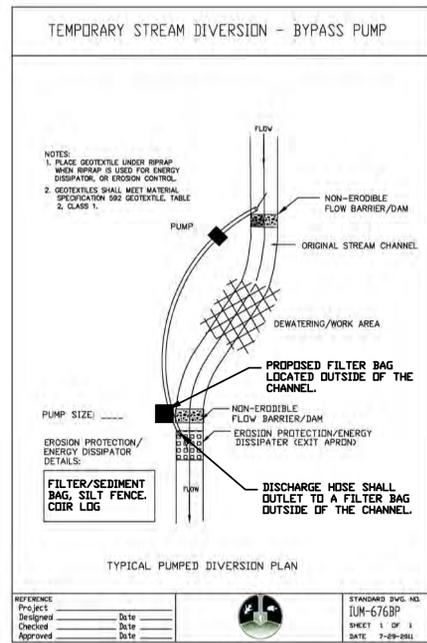
REVISIONS:	JOB NO. 400-006
Δ CLARIFIED WETLAND/WOUS - 10/22/2015	FIELD WORK:
Δ PER VILLAGE COMMENTS - 03/20/2016	FIELD BOOK:
Δ	DRAWN BY: KEK
Δ	CHECKED BY: EL
Δ	COMPLETED: 06/08/15

PREPARED FOR:
VILLAGE OF LINCOLNSHIRE
ONE OLDE HALF DAY ROAD
LINCOLNSHIRE, ILLINOIS 60069
P: (847) 913-2381

Bollinger, Lach & Associates, Inc.
333 PIERCE ROAD SUITE 200 ITASCA, IL 60143
P: (630) 438 6400 F: (630) 438 6444 www.bollingerlach.com
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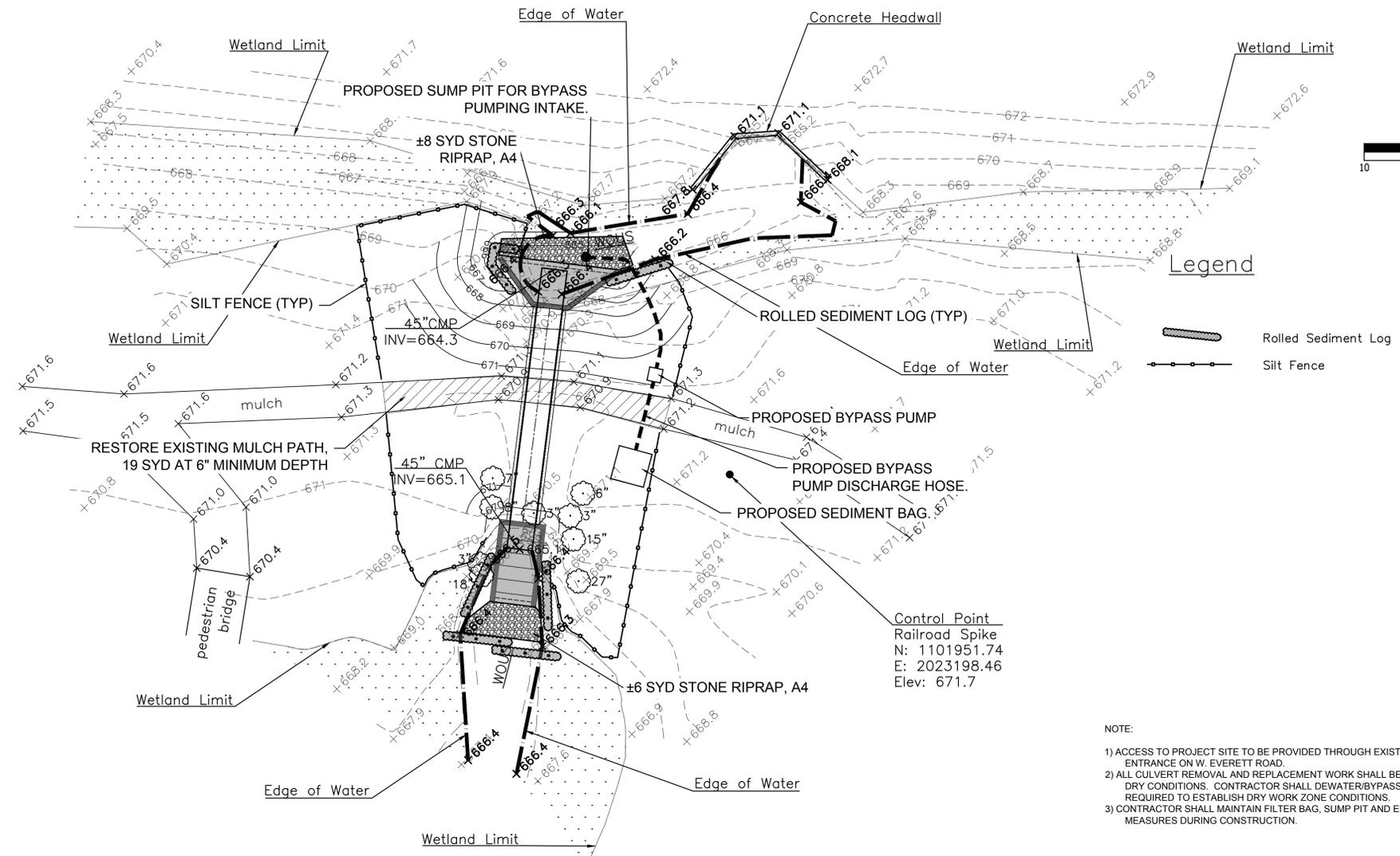


GRADING PLAN
NORTH PARK CULVERT REPLACEMENT
LINCOLNSHIRE, ILLINOIS

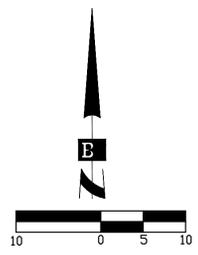


NOTE:
 1) SEDIMENT BAG SHALL BE PLACED ON FLAT GROUND AND ELEVATED ABOVE EXISTING GRADE BY THE USE OF A WOODEN PALLET OR OTHER APPROPRIATE MEANS.
 2) CONTRACTOR SHALL MONITOR FILTER BAG AND REPLACE WHEN CAPACITY HAS BEEN REACHED. FILTER BAG SHALL BE REMOVED BY LIFTING WITH LIFTING STRAPS AND DISPOSED OF OFFSITE.

FILTER BAG DETAIL



NOTE:
 1) ACCESS TO PROJECT SITE TO BE PROVIDED THROUGH EXISTING FIELD ENTRANCE ON W. EVERETT ROAD.
 2) ALL CULVERT REMOVAL AND REPLACEMENT WORK SHALL BE CONDUCTED IN DRY CONDITIONS. CONTRACTOR SHALL DEWATER/BYPASS PUMP AS REQUIRED TO ESTABLISH DRY WORK ZONE CONDITIONS.
 3) CONTRACTOR SHALL MAINTAIN FILTER BAG, SUMP PIT AND EROSION CONTROL MEASURES DURING CONSTRUCTION.



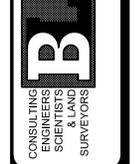
REVISIONS:

1	CLARIFIED WETLAND/NOUS - 10/22/2015
2	FIELD WORK: FIELD BOOK: DRAWN BY: KEK
3	PER SMC COMMENTS - 12/02/2015
4	PER VILLAGE COMMENTS - 03/20/2016
5	CHECKED BY: EL
6	DRAWING FILE: _____
7	COMPLETED: 06-08-15

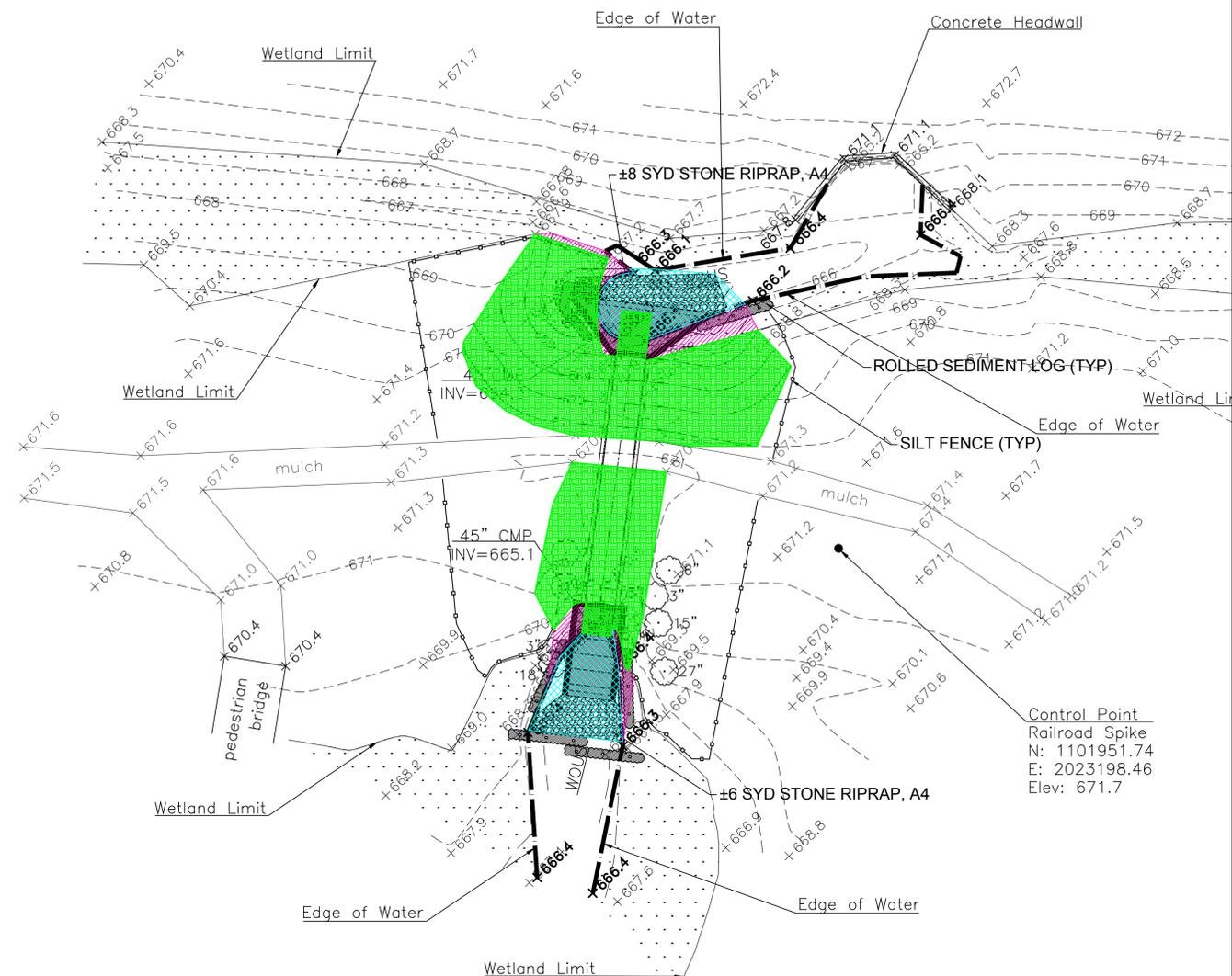
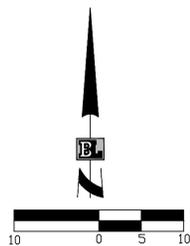
PREPARED FOR:
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 ONE OLDE HALF DAY ROAD
 LINCOLNSHIRE, ILLINOIS 60069
 P: (847)-913-2381

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD SUITE 200 ITASCA, IL 60143
 P: (630) 438-6400 F: (630) 438-6444 www.bollingerlach.com

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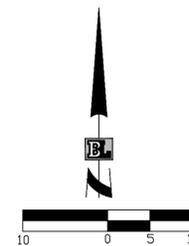


EROSION CONTROL PLAN
 NORTH PARK CULVERT REPLACEMENT
 LINCOLNSHIRE, ILLINOIS



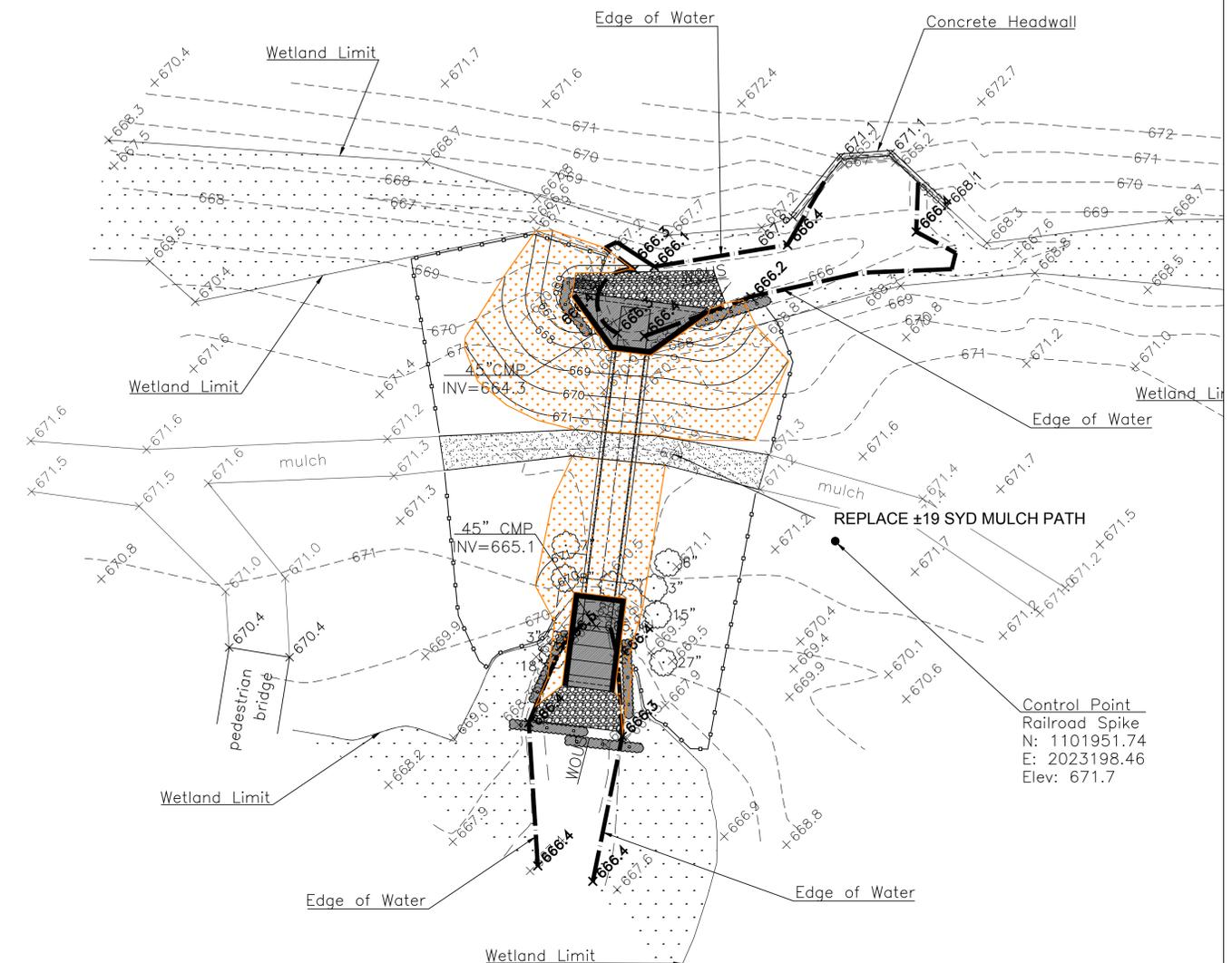
-  PERMANENT WETLAND IMPACTS
= 99.18 SQFT = 0.0023 ACRES
-  PERMANENT WATERS OF THE U.S. IMPACTS
= 223.00 SQFT = 0.0051 ACRES
-  TEMPORARY WETLAND BUFFER IMPACTS
= 914.16 SQFT = 0.0210 ACRES

WETLAND & BUFFER IMPACT PLAN



WETLAND BUFFER AREAS - PRAIRIE PLANTINGS

SPECIES	COMMON NAME	LBS/ACRE	SIZE OF STOCK (in.)
Andropogon gerardii	Big bluestem	4.00	48-96
Andropogon scoparius	Little bluestem	4.00	24-36
Bouteloua curtipendula	Side-oats grama	2.00	12-36
Panicum virgatum	Switch grass	2.00	36-60
Asclepias tuberosa	Butterfly weed	0.05	12-36
Aster ericoides	Heath aster	0.125	12-36
Aster novae-angliae	New England aster	0.05	12-48
Cassia fasciculata	Partridge pea	1.00	6-36
Coreopsis lanceolata	Sand coreopsis	0.50	24-36
Coreopsis palmata	Prairie coreopsis	0.05	12-36
Echinacea purpurea	Purple coneflower	0.50	24-36
Penstemon digitalis	Foxglove beardtongue	0.125	24-48
Monarda fistulosa	Wild bergamot	0.05	24-48
Ratibida pinnata	Yellow coneflower	0.25	12-48
Rudbeckia hirta	Black-eyed Susan	1.00	12-36
Silphium laciniatum	Compass plant	0.05	36-96
Silphium terebinthinaceum	Prairie dock	0.05	36-96
Solidago nemoralis	Old-field goldenrod	0.125	6-20
Solidago rigida	Stiff goldenrod	0.10	12-48
Tradescantia ohioensis	Common spiderwort	0.05	12-48
Verbena stricta	Hoary vervain	0.10	12-24
Cover crop: Annual rye @ 14 lbs. Per acre			



-  EROSION CONTROL BLANKET & SEEDING: CLASS 4A & 5A MODIFIED
= 105 SQYD = 0.022 ACRES
- EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S75 OR APPROVED EQUAL

WETLAND BUFFER RESTORATION PLAN

JOB NO. 400-006
 REVISIONS:
 A. CLARIFIED WETLAND/WQUS - 10/22/2015
 B. PER VILLAGE COMMENTS - 03/20/2016
 DRAWN BY: REK
 CHECKED BY: EL
 COMPLETED: 08-08-15

PREPARED FOR:
VILLAGE OF LINCOLNSHIRE
 ONE OLDE HALF DAY ROAD
 LINCOLNSHIRE, ILLINOIS 60069
 P: (847) 913-2381

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD SUITE 200 TASCARA, IL 60143
 P: (630) 438 6400 F: (630) 438 6444 www.bollingerlach.com
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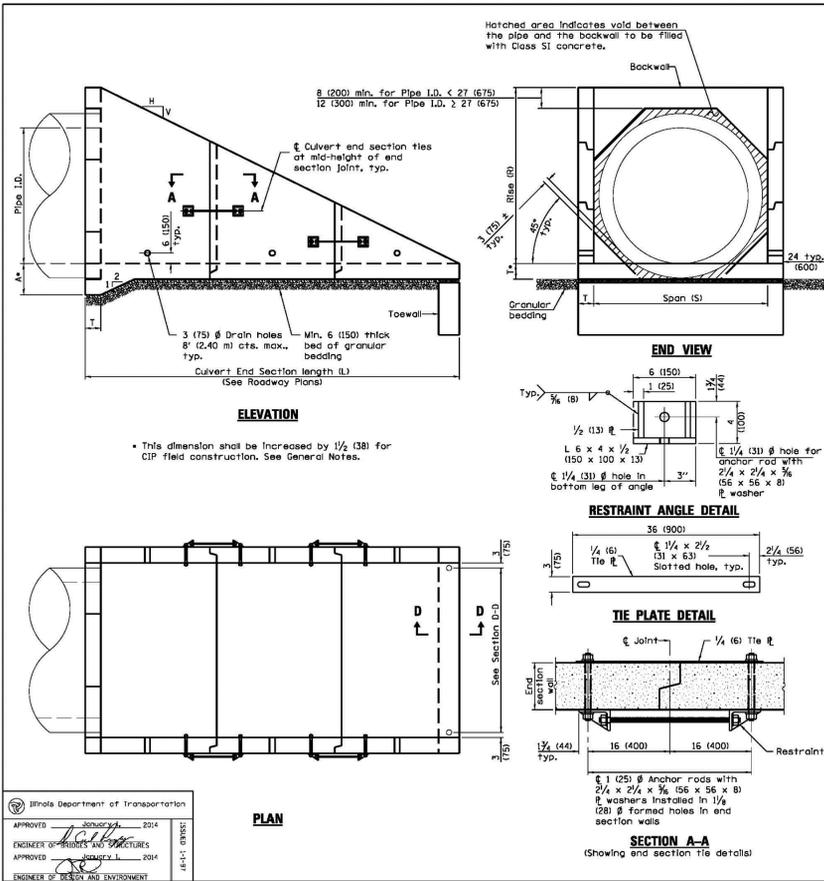


IMPACT & RESTORATION PLAN
 NORTH PARK CULVERT REPLACEMENT
 LINCOLNSHIRE, ILLINOIS

SHEET NUMBER

6

OF 9



PIPE CULVERT END SECTION DIMENSIONS

Pipe I.D.	Slope of End Section				L		
	A	R	S	T	12	14	16
15	14	29	28	8	5'-6"	7'-11"	10'-4"
18	15	33	32	8	6'-2"	8'-11"	11'-2"
21	15	36	34	8	6'-4"	9'-3"	11'-8"
24	15	39	38	8	7'-2"	10'-5"	13'-0"
27	15	42	41	8	8'-0"	11'-7"	14'-2"
30	16	45	44	8	8'-8"	12'-9"	15'-4"
33	16	48	47	8	9'-6"	14'-1"	16'-6"
36	16	51	50	8	10'-4"	15'-3"	17'-8"
42	17	57	56	8	11'-2"	16'-5"	19'-0"
48	18	63	62	8	12'-0"	17'-7"	20'-2"
54	18	69	68	8	12'-8"	18'-9"	21'-4"
60	18	75	74	8	13'-6"	20'-1"	22'-6"
66	18	81	80	8	14'-4"	21'-3"	23'-8"
72	19	87	86	8	15'-2"	22'-5"	25'-0"
78	19	93	92	8	16'-0"	23'-7"	26'-2"
84	20	99	98	8	16'-8"	24'-9"	27'-4"

GENERAL NOTES

The number of segments shown in elevation is for example only. The length and number of precast sections required to construct the end section shall be determined by the Contractor.

See roadway plans for slope (V/H) and pipe inside diameter.

End section may be installed up to ± 15 degrees skewed with roadway.

2/4 x 2/4 x 3/8 (56 x 56 x 8) plate washers shall be provided under each nut required for the anchor rods. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of formed holes.

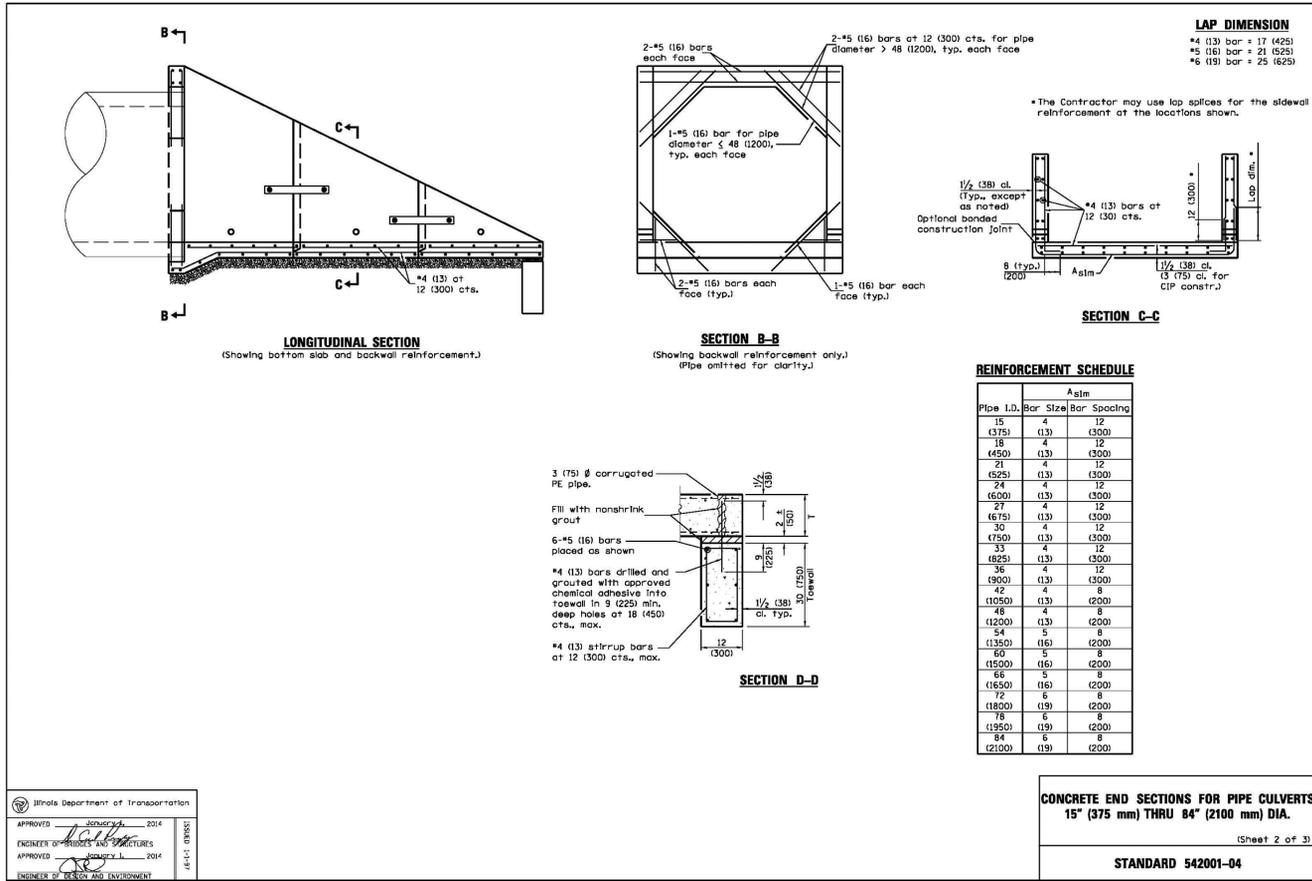
See Standard 542311 for end sections having traversable pipe grates.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V/H).

All dimensions are in inches (millimeters) unless otherwise shown.

CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 84" (2100 mm) DIA. (Sheet 1 of 3)

STANDARD 542001-04



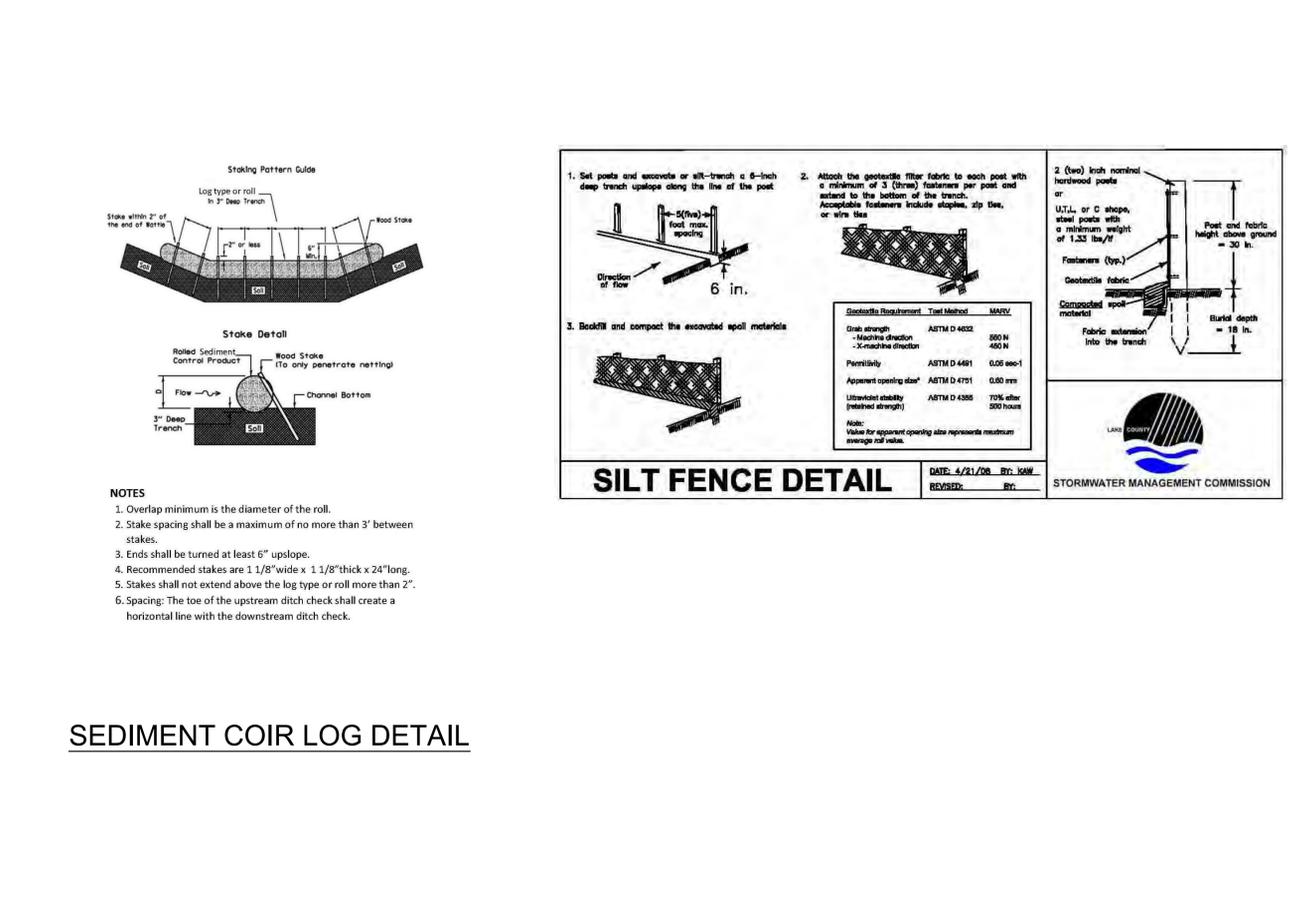
QUANTITIES

Pipe I.D.	Concrete yd ³ (m ³)				Reinforcement Without Lap lbs. (kg)				Reinforcement With Lap lbs. (kg)			
	12	14	16	18	12	14	16	18	12	14	16	18
15	1.3	1.7	2.1	2.8	230	280	360	410	260	310	400	450
18	1.6	2.1	2.6	3.5	290	350	460	520	280	350	450	510
21	1.8	2.3	2.9	3.9	320	380	510	580	290	360	470	540
24	2.1	2.7	3.3	4.5	350	420	560	630	300	380	490	560
27	2.6	3.4	4.2	5.8	440	540	740	830	380	480	600	690
30	2.9	3.9	4.9	6.8	490	600	830	920	410	530	660	750
33	3.2	4.3	5.3	7.4	520	640	880	970	430	570	710	800
36	3.5	4.7	5.9	8.3	560	700	960	1050	450	600	750	840
42	4.3	5.8	7.3	10.3	670	830	1130	1240	530	700	870	980
48	5.0	6.8	8.6	12.2	770	950	1280	1400	610	800	990	1110
54	6.0	8.2	10.3	14.7	890	1100	1480	1610	710	920	1130	1260
60	6.8	9.3	11.8	16.8	1020	1250	1680	1820	810	1040	1270	1410
66	7.9	10.9	13.8	19.7	1150	1410	1880	2030	920	1170	1420	1570
72	8.8	12.2	15.5	22.2	1300	1590	2110	2270	1040	1310	1580	1740
78	11.4	15.8	20.1	28.9	1750	2100	2800	3000	1400	1750	2150	2360
84	12.6	17.4	22.3	32.1	1900	2300	3050	3260	1550	1950	2400	2620

① For cast-in-place construction, increase concrete volumes by approximately 12%.

CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 84" (2100 mm) DIA. (Sheet 3 of 3)

STANDARD 542001-04



SEDIMENT COIR LOG DETAIL

CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 84" (2100 mm) DIA. (Sheet 3 of 3)

STANDARD 542001-04

REVISIONS: 10/22/2015
 FIELD WORK: CLARIFIED METLAND/WJWS
 DRAWN BY: KEK
 CHECKED BY: EL
 COMPLETED: 08/08/15

PREPARED FOR: VILLAGE OF LINCOLNSHIRE
 ONE OLDE HALF DAY ROAD
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CONSULTING ENGINEERS, SCIENTISTS & LAND SURVEYORS

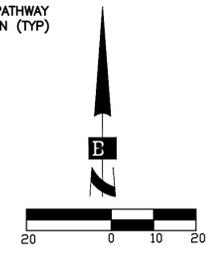
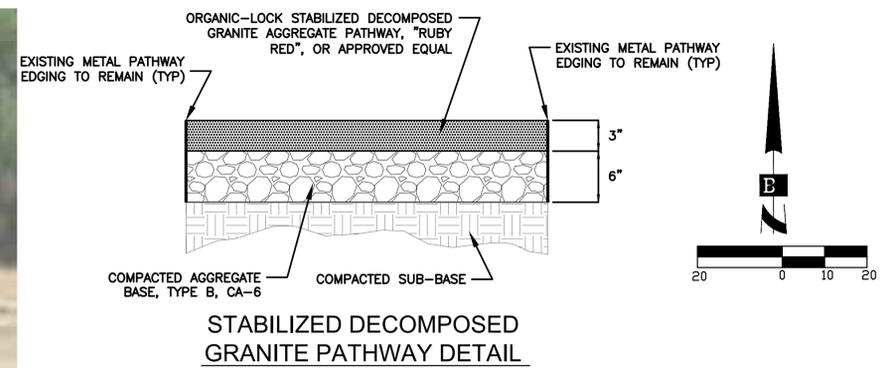
DETAILS
 NORTH PARK CULVERT REPLACEMENT
 LINCOLNSHIRE, ILLINOIS

SHEET NUMBER
 7
 OF 9

Design Firm License No. 184-001129



W. EVERETT ROAD



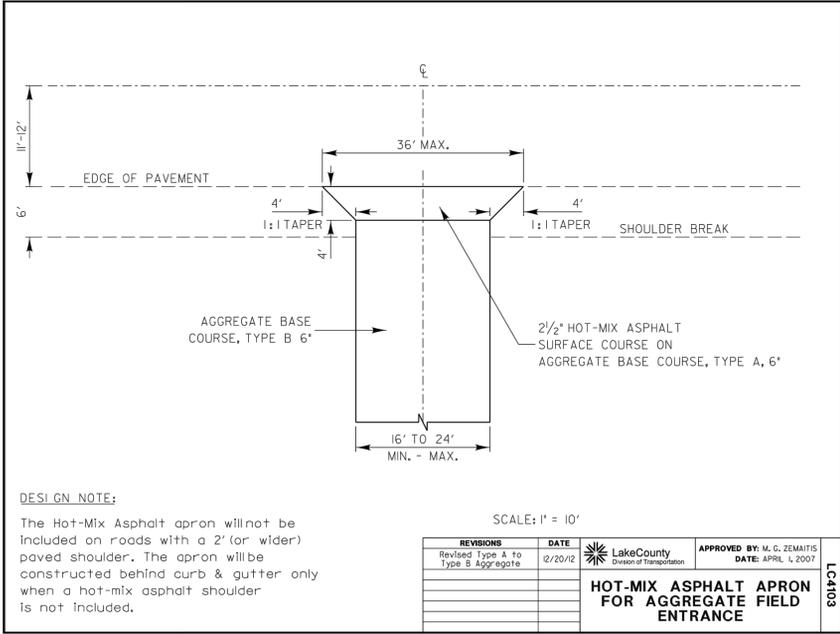
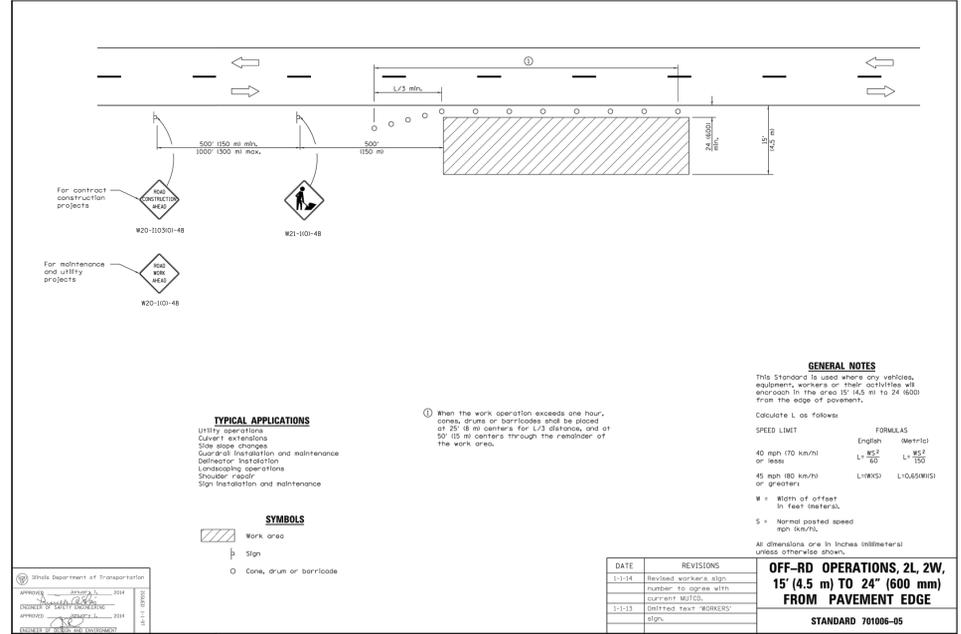
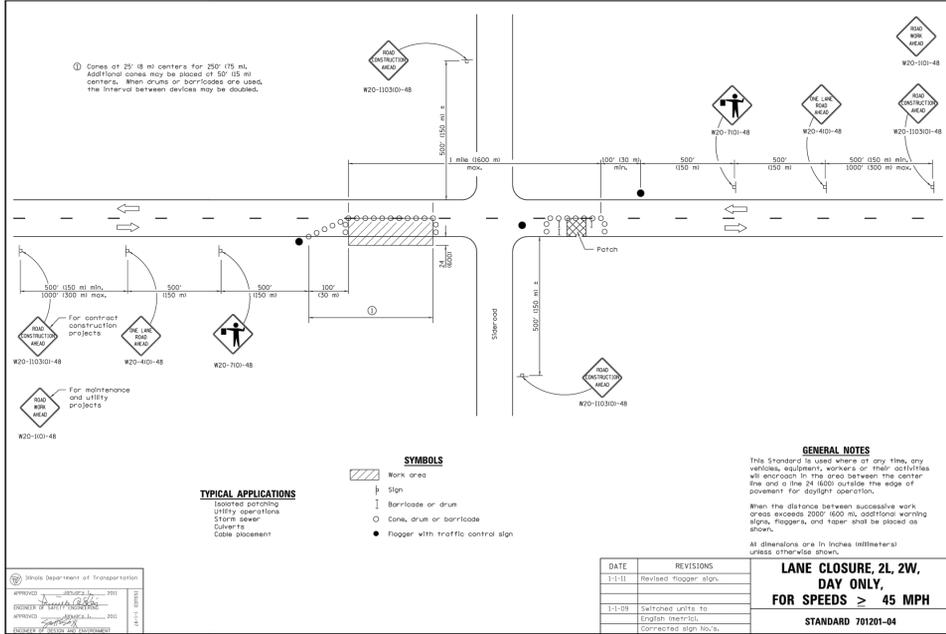
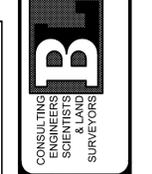
Legend

- Rolled Sediment Log
- Silt Fence
- Path Restoration

JOB NO. 400-006
 FIELD WORK: 10/22/2015
 FIELD BOOK: 12/02/2015
 DRAWN BY: KEK
 CHECKED BY: EL
 COMPLETED: 08/08/17

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SITE ACCESS PLAN
 NORTH PARK CULVERT REPLACEMENT
 LINCOLNSHIRE, ILLINOIS

REVISIONS	DATE	APPROVED BY
Revised Type A to Type B Aggregate	2/20/17	M. G. ZEMAITIS

DATE: APRIL 4, 2007