

A PROJECT OF THE  
PEORIA PARK DISTRICT

**DETWEILLER PARK EROSION CONTROL  
DETWEILLER PARK  
DETWEILLER DRIVE  
PEORIA, ILLINOIS**

PEORIA PARK DISTRICT  
PEORIA, ILLINOIS



AUGUST 4, 2015

PROJECT # 14-001

PROJECT MANUAL

PACKAGE #\_\_\_\_\_

PROJECT MANUAL INCLUDING SPECIFICATIONS FOR:

**DETWEILLER PARK EROSION CONTROL**  
**DETWEILLER PARK**  
**DETWEILLER DRIVE**  
**PEORIA, ILLINOIS**

**ENGINEER:** INFRASTRUCTURE ENGINEERING  
ATTN: THU TRUITT  
456 FULTON STREET  
SUITE 104  
PEORIA, ILLINOIS 61602

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**OWNER:** PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA,  
PEORIA, ILLINOIS

**TRUSTEES:** TIMOTHY J. CASSIDY, PRESIDENT  
ROBERT L. JOHNSON, SR.  
JACQUELINE J. PETTY  
WARREN E. RAYFORD  
KELLY A. CUMMINGS  
MATTHEW P. RYAN  
NANCY L. SNOWDEN

**PROJECT MANAGER:** MICHAEL FRIBERG, RLA, ASLA  
PLANNING, DESIGN & CONSTRUCTION DIVISION  
BRADLEY PARK EQUIPMENT SERVICE  
1314 N. PARK ROAD  
PEORIA, ILLINOIS 61604  
TELEPHONE: (309) 686-3386

**ADMINISTRATIVE STAFF:** BONNIE W. NOBLE, EXECUTIVE DIRECTOR  
BRENT WHEELER, DEPUTY DIRECTOR  
MATT FREEMAN, SUPERINTENDENT OF PARKS  
JANET BUDZYNSKI, SUPERINTENDENT OF FINANCE  
AND ADMINISTRATIVE SERVICES  
BECKY FREDRICKSON, SUPERINTENDENT OF PLANNING,  
DESIGN AND CONSTRUCTION  
CYNDY MCKONE, SUPERINTENDENT OF  
MARKETING/PUBLIC RELATIONS  
DENNIS MANTICK, SUPERINTENDENT OF RECREATION  
AND LEISURE SERVICE  
SHALESSE PIE, SUPERINTENDENT OF HUMAN  
RESOURCES  
NICK CONRAD, INTERIM SUPERINTENDENT OF  
RIVERFRONT DIVISION

\*\*\*\*\*

Address all communications regarding this work to the Project Manager listed above.

**ADVERTISEMENT FOR BIDS**

Sealed bids will be received by the Peoria Park District, Peoria, Illinois, hereinafter known as the Owner, for the following project:

DETWEILLER PARK EROSION CONTROL  
DETWEILLER PARK  
DETWEILLER DRIVE, PEORIA ILLINOIS

It is the intent of the Owner to receive Base Bids for the project listed above.

Sealed bids will be received until Tuesday, August 18, 2015 at 1:30 p.m. prevailing time, by the Owner, at the Peoria Park District Administrative Office, 1125 W. Lake Ave., Peoria, Illinois 61614. (The Board Room clock shall be the official time keeping device in respect to the bid submission deadline.)

An electronic file including Bid Documents is available at [www.peoriaparks-planning.org](http://www.peoriaparks-planning.org) at no charge. Bid Documents, including Plans, Specifications and Interpretations for this project may be obtained at the Planning, Design & Construction Department, Bradley Park Equipment Service, 1314 N. Park Road, Peoria, IL 61604. Telephone (309) 686-3386. A non-refundable plan deposit of \$50.00 will be charged for each printed set of Bid Documents.

A list of planholders can be obtained upon request. This information will be available up to twenty-four (24) hours prior to the scheduled bid opening time. **After that deadline, no information pertaining to the project will be given.**

A 10% Bid Bond is required, and is to be included with the Bid Proposal. The successful Bidder will be required to furnish a 100% Performance Bond and a 100% Labor and Materials Payment Bond within ten (10) days of formal Award of Contract.

The general prevailing rate of wage for the Peoria area shall be paid for each craft or type of worker needed to execute this contract or perform this work as required by the State of Illinois Department of Labor. Additionally, it is required that provisions of the Illinois Preference Act, the Illinois Drug Free Workplace Act, and the Substance Abuse Prevention on Public Works Act must be adhered to. Bidders are also advised that contract documents for this project include the non-discrimination, equal opportunity and affirmative action provisions in the Human Rights Act and rules and regulations of the Department of Human Rights. The Peoria Park District is an AA/EEO organization and encourages participation by minority and female-owned firms.

The Peoria Park District reserves the right to reject any or all bids, waive technical deficiencies, informalities or irregularities or rebid any project.

PLEASURE DRIVEWAY AND PARK DISTRICT  
OF PEORIA, ILLINOIS

BY: TIMOTHY J. CASSIDY, President

BY: V. JOYCE MCLEMORE, Secretary

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# SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

## 1. INSTRUCTIONS TO BIDDERS

- A. "Instructions to Bidders", AIA Document A701, 1997 Editions, published by the American Institute of Architects, including revisions adopted before date of this Project Manual, is hereby made part of these specifications with same force and effect as though set forth in full.
- B. The following modifies, changes, deletes from or adds to the **Instructions to Bidders** (AIA Document A701, 1997 Edition). Where any Article of the Instructions to Bidders is modified or any Paragraph, Subparagraph or Clause thereof is modified or deleted by these Supplementary Conditions, the unaltered provisions of that Article, Paragraph, Subparagraph or Clause shall remain in effect.
- C. Parenthesis ( ) indicates the appropriate section and Subparagraph of the Instructions to Bidders which each paragraph of the Supplementary Instructions to Bidders modifies or refers to.

## 2. PROJECT DESCRIPTION

- A. The Project description generally is as follows:
  - 1. **BASE BID:** This project includes: traffic control, pavement and culvert removal, temporary and permanent erosion and sediment control, placement of stormwater manholes and piping, grading, fill, rip rap, asphalt pavement, and native plant seeding.
- B. **PRE-BID MEETING :**
  - 1. A pre-bid meeting will be held at the project location at the top of Detweiller Drive at the entrance to the park on Tuesday August 11, 2015 at 10:00 a.m.

## 3. CODES AND PERMITS

- A. **COSTS ASSOCIATED WITH REGULATORY COMPLIANCE.** All Work performed in connection with this Project shall be in compliance with the requirements of all applicable local, state, and federal laws, regulations, and rules, as well as the requirements of the Construction Documents. The Bid Price shall reflect all costs of compliance to those requirements, whether or not specifically stated in the Construction Documents or specific sections of the Project Manual.
- B. **PERMITS/FEES.** Work shall not commence until all required building (and/or other) permits have been secured by the Contractor and copies of these permits submitted to the Owner's Representative. Cost of permits is to be included in the Bid Price.
- C. **ILLINOIS NATURE PRESERVES COMMISSION (INPC).** Part of the work of this project will take place within a designated Illinois State Nature Preserve. The plans for this project have been reviewed by INPC. Any work or access to land beyond the plan boundaries will require written permission from INPC representatives before taking place. Violations may be subject to civil penalties.

## 4. BID GUARANTY

The bid must be accompanied by a Bid Guaranty which shall not be less than 10% of the amount of the Bid. At the option of the Bidder, the 10% Guaranty may be a Certified Check, Cashier's Check, or a Bid Bond. The Bid Bond shall be secured by a Guaranty or a Surety Company acceptable to the Owner. No bid will be considered unless it is accompanied by the required Guaranty. Funds must be made payable to the order of the Owner. Cash deposits will not be accepted. The Bid Guaranty shall ensure the execution of the Agreement and the furnishing of the Surety Bond or Bonds by the successful Bidder, all as required by the Contract Documents.

## 5. AWARD OF CONTRACT/REJECTION OF BIDS:

The Contracts will be awarded on the basis of Paragraph 5.3 of the Instructions to Bidders. The Bidders to whom the awards are made will be notified at the earliest possible date. The Owner, however, reserves the right to reject any and all Bids, to accept any combination of base bids and alternates and to waive any technical deficiencies, informalities, or irregularities in Bids received whenever such rejection or waiver is in its interest.

No bid shall be withdrawn for a period of sixty (60) days after the opening of bids without the consent of the Owner. The failure of the Bidder to submit a Bid Bond, Certified Check or Cashier's Check in the full amount to cover all proposals bid upon shall be sufficient cause for rejection of his bid. The award will be made contingent upon submittal and evaluation of Contractor's Qualification Statement, Bonds, Certificate of Insurance, Contractor Certification(s), including Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors, etc.

## 6. EXECUTION OF AGREEMENT:

Subsequent to the award and within ten (10) days after the prescribed forms are prepared and presented for signature by the Owner's Representative, the successful Bidder shall execute and return to the Owner's Representative an Agreement in the form included in the Contract Documents in such number of copies as the Owner may require. The President of the Board of Trustees will complete execution of Agreement after all bonds and any other required documents have been received by the Park District. One fully executed copy of Agreement will then be returned to Contractor.

## **7. PERFORMANCE BOND/LABOR AND MATERIAL PAYMENT BOND & INSURANCE**

- A. BONDS REQUIRED.** Having satisfied all conditions of award as set forth elsewhere in these Documents, the successful Bidder shall, within ten (10) calendar days after award of contract, furnish Surety Bonds in penal sums, each not less than the amount of the Contract as awarded as security for the faithful performance of the Contract (Performance Bond), and for the payment (Labor and Materials Payment Bond) of all persons, firms or corporations to whom the Contractor may become legally indebted for labor, materials, tools, equipment or services employed or used by him in performing the work.
- B. FORM OF BONDS.** Such bonds shall be in the same form as the samples included in the Project Manual and shall bear the same date as or a date subsequent to that of the Agreement. The current Power of Attorney for the person who signs for any Surety Company shall be attached to such Bonds. Bonds shall be signed by a Guaranty or Surety Company acceptable to the Owner.
- C. COST OF PERFORMANCE BOND/LABOR AND MATERIAL PAYMENT BOND.** All costs for the Performance Bond/Labor and Material Payment Bond shall be included in the submitted Bid Price.
- D. INSURANCE.** Insurance requirements for this project are addressed both in the Supplementary General Conditions and in "Attachment A.6", in the "Exhibits" section of this Project Manual.
  - a) In respect to the property ("builders risk") insurance coverages referenced in the Supplementary General Conditions: the successful Bidder will be required to provide such coverages as the work of the Project will be accomplished by one general contractor.
- E. TIME FRAMES.** The successful Bidder shall, within ten (10) days after award of contract by the Board of Trustees, submit Proof of Insurance coverages/Bonds in the form and amounts required to the Owner's Representative. Should the Bidder be unable to provide the required Proof of Insurance(s)/Bonds within the specified ten day period the Owner reserves the right, at its sole discretion, to withdraw its award of contract from that Bidder.

## **8. DEFAULT**

- A.** The failure of the successful Bidders to execute the Agreement, supply the required Bonds or proof of required insurance coverage(s) within (ten) 10 days after award of contract, or within such extended period as the Owner may grant based upon reasons determined sufficient by the Owner, may constitute a default. In such case, award of contract will be transferred to the second lowest bidder.

## **9. CONTRACTOR'S QUALIFICATION STATEMENT**

- A.** Contractor's Qualification Statement (AIA Document 305) shall be submitted by low bidder for evaluation prior to award of contract if so requested by the Owner or his representatives.

## **10. LIST OF SUBCONTRACTORS/PRODUCT & EQUIPMENT SUBSTITUTIONS**

- A.** Each Bidder shall submit a "MAJOR SUBCONTRACTORS LIST" proposed to be used in the execution of the Work. If there will be no subcontractors, the Bidder shall state "No Subcontractors" on this form. The completed form is due with the Bid Proposal.
  - 1) Identify the trade name, address, telephone number, and category of work of each subcontractor.
  - 2) Failure to submit the "Major Subcontractors List" with the Bid Proposal may result in the rejection of the Bid.
  - 3) Delete Subparagraphs (6.3.1.1) and (6.3.1.2) from AIA A701.
- B.** The Bidder, by submission of a signed bid form, agrees to install all products and equipment by brand name or names specified in the Technical Specifications sections of this Project Manual. "Or equal" substitutions will be allowed only if approved in writing prior to the bid opening and listed in the "Substitutions" section of the Bid Form.

## **11. CONTRACT ADMINISTRATION FORMS/COSTS OF FORMS**

- A. REQUIRED FORMS.** The following AIA forms will be used (AIA forms will be supplied by the Owner if requested, and charged to the Contractor at cost) in the administration of the project:
  - 1) **AIA Document A310:** "Bid Bond", February 1970 edition
  - 2) **AIA Document A305:** "Contractor's Qualification Statement", 1986 edition
  - 3) **AIA Document G702:** "Application and Certificate of Payment", May 1992 edition
  - 4) **AIA Document G703:** "Continuation Sheet", May 1992 edition
- B. OTHER FORMS.** Other contract administration forms (to be provided by the Owner unless otherwise noted) required for use in the Project are:
  - 1) **Major Subcontractors List**
  - 2) **Contractor's Affidavit**
  - 3) **Individual Contractor Form**
  - 4) **Corporate or Partnership Form**

- 5) **Performance Bond**
- 6) **Labor and Material Payment Bond**
- 7) **Lien Waiver Forms**
- 8) **Weekly Workforce Report**
- 9) **Certified Payroll Form** (Contractor may use own form)
- 10) **Insurance Forms: As required in Attachment A (at end of Project Manual)** (will not be provided by Owner)
- 11) **Agreement Between Owner and Contractor**

Examples of these forms are included in the Project Manual.

## **12. CONSTRUCTION TIME AND LIQUIDATED DAMAGES CLAUSE:**

- 2.5.1 PROJECT COMPLETION.** The Agreement will include the following paragraph(s) or language substantially the same, regarding construction time and liquidated damages:
- 1) **LIQUIDATED DAMAGES:** Owner and Contractor recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not Substantially Complete within the time specified below, plus any extensions thereof allowed in accordance with Article 8 of the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time.
  - 2) Accordingly, instead of requiring any such proof, Owner and Contractor agree that as Liquidated Damages for delay (but not as a penalty) Contractor shall pay Owner TWO HUNDRED AND FIFTY DOLLARS (\$250.00) for each calendar day that expires after Seventy (70) calendar days from Notice of Award until Substantial Completion is attained. The work is tentatively scheduled to begin on August 27, 2015 and be at Substantial Completion by November 5, 2015.
  - 3) After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work necessary to achieve Final Completion within Ten (10) calendar days or any proper extension thereof granted by Owner, Contractor shall pay Owner TWO HUNDRED AND FIFTY DOLLARS (\$250.00) dollars for each day that expires after the time specified.
  - 4) Owner and Contractor agree that the per day liquidated damage amounts set forth in subparagraphs "2" and "3" of this section constitute a reasonable forecast of the financial losses, actual costs and increased expenses the Owner may incur as a result of delayed Substantial or Final Completion of the Project.

## **13. PROJECT MANUAL/PLANS & SITE VISITATION**

- A. A set of Bid Documents may be examined, at no charge, at the office of the Owner's Representative.
- B. **PLAN DEPOSIT.** An electronic file including Bid Documents is available at [www.peoriaparks-planning.org](http://www.peoriaparks-planning.org) at no charge. A printed set of Bid Documents, including Plans, Specifications and Interpretations for this project may be obtained at the Planning, Design & Construction Department, Bradley Park Equipment Service, 1314 N. Park Road, Peoria, IL 61604. Telephone (309)686-3386. A non-refundable plan deposit of Fifty Dollars (\$50.00) will be charged for each printed set of Bid Documents.
- C. **FAMILIARITY WITH BID DOCUMENTS & SITE VISITATION.** Bidders, by submission of their Bids, represent that they have visited the site to acquaint themselves with the local conditions in which the Work is to occur, and that they are familiar with all the requirements of the Project, as defined in the Project Manual and the Plan(s).

## **14. OTHER MODIFICATIONS TO AIA-701/OTHER CONDITIONS**

- A. Add the following sentence to (4.1.7): "Bidder shall submit two (2) completed copies of Bid Form and retain one (1) copy for his files."
- B. Delete Section (6.2) - "Owner's Financial Capability"; and last sentence of Paragraph (4.2.1.)
- C. In reference to (7.2.1), the Peoria Park District reserves the right of final approval of bonding companies.
- D. Delete paragraph (7.1.3).

## **15. EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION/SEXUAL HARASSMENT**

- A. The "Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors Form" and "Workforce Profile" and "Sexual Harassment Policy" shall be filled out and returned with the Bid. Failure to submit a completed "Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors Form" and "Workforce Profile" and "Sexual Harassment Policy" may result in rejection of the bid.

- B.** Effective July 1, 1993, every party to a public contract and every party bidding on public contracts is required to have a written **"Sexual Harassment Policy"** that contains:
- 1) A definition of sexual harassment under state law;
  - 2) A description of sexual harassment utilizing examples;
  - 3) A formalized complaint procedure;
  - 4) A statement of victim's rights;
  - 5) Directions on how to contact the Illinois Department of Human Rights - **Illinois companies**. Out-of-State companies must include directions on how to contact the enforcement agency within their state. Companies that issue a standard policy for all business locations must prepare an addendum providing directions on how to contact the appropriate enforcement agency.
  - 6) A recitation that there cannot be any retaliation against employees who elect to file charges.

Recommendation: Your **"Sexual Harassment Policy"** should be drafted in language easy to understand and any revisions should be reviewed by legal counsel. A copy of your policy should be posted in a prominent and accessible location to assure all employees will be notified of the company's position.

**In order to conduct business with the Peoria Park District, you must have a written "Sexual Harassment Policy" that conforms to the new Act.**

**FAILURE TO DO SO WILL DISQUALIFY YOU AS AN ELIGIBLE VENDOR.**

- C.** Lowest responsible bidder not meeting the Park District's goal of 12% for minority/women participation, must provide proof of efforts made in contacting an adequate number of minority and women owned firms and/or labor.

#### **16. BID SUBMISSION**

- A. DATE, TIME & PLACE OF RECEIVING BIDS.** Bids will be received until the date and time listed in the "Advertisement for Bids", at which time they will be publicly opened, read aloud and recorded. The Bid Opening will be held at the place listed in the "Advertisement for Bids".
- B. REQUIRED ITEMS.** The following items must be included as part of the "BID":
- 1) Two (2) signed copies of the **BID FORM**. (Retain the third copy for your files.)
  - 2) The **PEORIA PARK DISTRICT CERTIFICATE OF EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE FOR CONTRACTORS AND VENDORS FORM** and **SEXUAL HARASSMENT POLICY**.
  - 3) The **WORKFORCE PROFILE**.
  - 4) The **ILLINOIS DRUG FREE WORKPLACE CERTIFICATION**.
  - 5) The **CONTRACTOR CERTIFICATION** (individual or corporate/partnership).
  - 6) The **LIST OF SUBCONTRACTORS**. (Submit form and state "No Subcontractors" on the form, if none will be used.)
  - 7) The **BID GUARANTY**.
  - 8) The **CERTIFICATION OF SAFETY COMPLIANCE**.
  - 9) **SUBSTANCE ABUSE PREVENTION PROGRAM CERTIFICATION**
- C. BID SUBMISSION.** The "BID" shall be enclosed in envelopes (outer and inner), both of which shall be sealed and clearly labeled with the following information, in order to prevent premature opening of the bid:
- "PROPOSAL"
  - NAME OF PROJECT
  - NAME OF BIDDER
  - DATE/TIME OF BID OPENING

END OF SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

Bid From: \_\_\_\_\_

PROJECT NO. 14-001

BID FOR: DETWEILLER PARK EROSION CONTROL

LOCATION: DETWEILLER PARK

**BID FORM**

BID TO: PEORIA PARK DISTRICT

UNDERSIGNED:

1. Acknowledges receipt of:
  - A. Project Manual and Drawings for:  
DETWEILLER PARK EROSION CONTROL  
DETWEILLER PARK  
DETWEILLER DRIVE PEORIA, ILLINOIS
  - B. Addenda: No. \_\_\_\_\_ through No. \_\_\_\_\_
2. Has examined facility and the bid documents and shall be responsible for performing work specifically required of him by all parts of bidding documents including specifications for entire project, even though such work may be included as related requirements specified in other divisions or sections.
3. And agrees to enter into and execute Contract with Owner, if awarded on basis of this bid, and to:
  - A. Furnish Bonds and Insurance required by the Bidding & Contract Documents.
  - B. Accomplish work in accord with Contract.
  - C. Complete work within specified Contract time.
4. **CONTRACT TIME:** Contractor agrees to Substantially Complete ALL WORK as required by the Contract Documents per the Supplementary General Conditions and Supplementary Instructions to Bidders.
5. **BASE BIDS:**
  - A. Base Bid:  
Bidder agrees to perform all building and site work, as set forth in the Project Manual and Drawings for the sum of:  
  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_.\_\_\_\_\_)
6. **UNIT PRICES:**
  - A. Bidders submitting prices for the Base Bid shall submit Unit Prices for adding or deleting work. Unit Prices shall include all costs, including but not limited to preparation, labor, equipment, and materials necessary for a complete installation.

<u>ITEM</u>	<u>UNIT</u>	<u>UNIT PRICE</u>
RR-4 Rip Rap, placed.	TON	\$_____
24" Single Wall HDPE pipe, trenched and backfilled	LF	\$_____

Bid From: \_\_\_\_\_

PROJECT NO. 14-001

BID FOR: DETWEILLER PARK EROSION CONTROL

LOCATION: DETWEILLER PARK

24" Double Wall HDPE pipe, trenched and backfilled                      LF                      \$ \_\_\_\_\_

Asphalt Pavement, 1.5" surface, 2.25" binder course                      SF                      \$ \_\_\_\_\_

CA-6 Base Course, compacted, 8" depth                      SF                      \$ \_\_\_\_\_

7. **PROPOSED SUBSTITUTION LIST:**

Base Bid(s) and Alternates are understood to include only those product brands, items, and elements which are specified in the Bid Documents. The following is a list of substitute products, equipment or methods of construction which the Bidder proposes to furnish on this project, with difference in price being added or deducted from Base Bid(s).

Bidder understands that acceptance of any proposed substitution which has not been approved as an "equal" to the product brand, item, or element specified prior to bid opening is at Owner's option. Approval or rejection of any substitutions listed below will be indicated before executing Contract.

<u>ITEM</u>	<u>ADD</u>	<u>DEDUCT</u>
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____

8. **BIDDERS CHECKLIST:**

Did you visit the site?	Yes	No
Is Bid Security enclosed? (If applicable)	Yes	No
Is Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors and Sexual Harassment Policy enclosed?	Yes	No
Is Workforce Profile enclosed?	Yes	No
Is List of Subcontractors enclosed?	Yes	No
Is Contractor Certification enclosed?	Yes	No
Is Ill. Drug Free Workplace Certification enclosed?	Yes	No
Is Certificate of Safety Compliance enclosed?	Yes	No
Is Substance Abuse Prevention Program Certification enclosed?	Yes	No

Bid From: \_\_\_\_\_

PROJECT NO. 14-001

BID FOR: DETWEILLER PARK EROSION CONTROL

LOCATION: DETWEILLER PARK

9. **BIDDER INFORMATION:**

NAME OF BIDDER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP: \_\_\_\_\_

TELEPHONE NO.: \_\_\_\_\_

BY: \_\_\_\_\_

(Signature of Authorized Official)

TITLE: \_\_\_\_\_

BIDDER'S SEAL

WITNESS: \_\_\_\_\_

END OF BID FORM





**Peoria Park District**  
**Certificate of Equal Employment Opportunity Compliance**  
**for**  
**Contractors and Vendors**

Office Use Only:  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_

Disclosure of the information requested in this form is required by the Peoria Park District. Failure to properly complete and sign this form will result in it being returned unprocessed thereby resulting in a delay or denial of eligibility to bid.

As part of the Company's commitment to equal employment opportunity practices, this company does the following:

- Recruits, trains, upgrades, promotes and disciplines persons without regard to race, color, sex, religion, national origin, veteran status, age, mental or physical ability.
- Notifies all recruitment sources that all qualified applicants will be considered for employment without regard to race, color, sex, religion, national origin, veteran status, age, mental or physical ability.
- When advertising is used, specifies that all qualified applicants will be considered for employment without regard to race, color, sex, religion, national origin, veteran status, age, mental or physical ability.
- Notifies all labor organizations which furnish this company with any skilled or non-skilled labor of the Company's responsibility to comply with the equal employment opportunity requirements required in all contracts by the Peoria Park District.
- Notifies all of its sub-contractors of their obligation to comply with the equal employment opportunity requirements required in all contracts by the Peoria Park District.
- Has an affirmative action program that assures the company's fair employment practices are understood and carried out by all of its managerial, administrative and supervisory personnel.

Is the Company a minority/woman owned business (MBE/WBE)? \_\_\_\_ YES \_\_\_\_ NO

The Company does not discriminate against any employees or applicants for employment because of race, color, religion, sex, national origin, veteran status, age, mental or physical ability.

The Company does not maintain segregated facilities for any of its employees on the basis of race, religion, color, national origin, because of habit, local custom, or otherwise.

By signing this form, the Company attests that it complies with all statements listed above as part of the Company's commitment to equal employment opportunity practices. The Company further agrees that it has completed the attached Workforce Profile Sheet truthfully, to the best of its knowledge.

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Company Address

\_\_\_\_\_  
Signature of Company Official

\_\_\_\_\_  
Name / Title

\_\_\_\_\_  
Telephone Number & Fax Number

\_\_\_\_\_  
Email Address

Rev. 6/2012

DETWEILLER PARK EROSION CONTROL - Project Manual

## WORKFORCE PROFILE - FULL TIME ONLY

Job Classifications	Total Employees		Black		Hispanic		Native American		Asian		Veteran		Disabled	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1. Officials, Managers, Supervisors														
2. Professionals														
3. Technicians														
4. Sales														
5. Office/Clerical														
6. White Collar Trainees:														
7. Skilled Crafts:														
8. Apprentices:														
9. On-the-job Trainees:														
10. Semi-skilled														
11. Service Workers														
12. Unskilled														
TOTALS														

# WORKFORCE PROFILE INSTRUCTIONS

## RACE/ETHNIC IDENTIFICATION

WHITE (not of Hispanic origin): All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.

BLACK (not of Hispanic origin): All persons having origins in any of the Black racial groups of Africa.

HISPANIC: All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

ASIAN or PACIFIC ISLANDER: All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands, and Samoa.

NATIVE AMERICAN or ALASKAN NATIVE: All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

## DESCRIPTION OF JOB CLASSIFICATIONS

OFFICIALS, MANAGERS, AND SUPERVISORS - Occupations requiring administrative personnel who set broad policies, and exercise over-all responsibility for the execution of these policies, and direct individual departments or special phases of a firm's operations. Includes: officials, executives, middle management, plant managers, department managers/superintendents, salaried foremen who are members of management, purchasing agents and buyers, and kindred workers.

PROFESSIONALS - Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes: accountants/auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, lawyers, librarians, mathematicians, natural scientists, personnel and labor relations workers, physical scientists, physicians, social scientists, teachers, and kindred workers.

TECHNICIANS - Occupations requiring combination of basic scientific knowledge and manual skill which can be obtained through about 2 years of post high school education, such as is offered in many technical institutes and junior colleges, or through equivalent on-the-job training. Includes: drafters, engineering aids, junior engineers, scientific assistants, surveyors, technical illustrators, technicians (medical, dental, electronic physical sciences), and kindred workers.

SALES WORKERS - Occupations engaging wholly or primarily in direct selling. Includes: advertising agents/salespersons, insurance agents/brokers, real estate agents/brokers, stock and bond salespersons, demonstrators, salespersons and sales clerks, and kindred workers.

OFFICE AND CLERICAL WORKERS - Includes all clerical type work regardless of level of difficulty, where the activities are predominantly non-manual though some manual work not directly involved with altering or transporting the products is included. Includes: bookkeepers, cashiers, collectors (bills and accounts), messengers and office couriers, office machine operators, shipping and receiving clerks, stenographers, typist and secretaries, telegraph and telephone operators, and kindred workers.

WHITE COLLAR TRAINEES - Persons engaged in formal training for official, managerial, professional, technical, sales, office and clerical occupations.

SKILLED CRAFTS - Manual worker of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgment and usually receive an extensive period of training. Includes: the building trades hourly paid foremen and leadmen who are not members of management, mechanics and repairmen, skilled machining occupations, compositors and typesetters, electricians, engravers, job setters (metal), motion picture projectionists, pattern and model makers, stationary engineers, tailors and tailoresses, and kindred workers.

**APPRENTICES** - Persons employed in a program including work training and related instruction to learn a trade or craft which is traditionally considered an apprenticeship, regardless of whether the program is registered with a Federal or State agency.

**ON-THE-JOB TRAINEES** - Persons engaged in formal training for craftsmen when not trained under apprentice programs; semi-skilled, unskilled and service occupations.

**SEMI-SKILLED WORKERS** - Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training.

**SERVICE WORKERS** - Workers in both protective and non-protective service occupations. Includes: attendants (hospital and other institution, professional and personal service), barbers, charwomen and cleaners, cooks (except household), counter and fountain workers, elevator operators, fire fighters, guards, watchmen and doorkeepers, stewards, janitors, police officers and detectives, porters, waiters and waitresses, and kindred workers.

**UNSKILLED WORKERS** - Workers in manual occupations which generally require no special training. Perform elementary duties that may be learned in a few days and require the application of little or no independent judgement. Includes: garage laborers, car washers and greasers, gardeners (except farm) and groundskeepers, longshoremen and stevedores, lumbermen, craftsmen and wood choppers, laborers performing lifting, digging, mixing loading and pulling operations, and kindred workers.

## **PLEASE BE ADVISED!**

Every party to a public contract and every party bidding on public contracts are required to have a written sexual harassment policy that contains:

- (1) a definition of sexual harassment under state law;
- (2) a description of sexual harassment utilizing examples;
- (3) a formalized complaint procedure;
- (4) a statement of victims rights;
- (5) directions on how to contact the Illinois Department of Human Rights – **Illinois companies.** **Out-of-State companies must include directions on how to contact the enforcement agency within their state.** Companies that issue a standard policy for all business locations must prepare an addendum providing directions on how to contact the appropriate enforcement agency.
- (6) a recitation that there cannot be any retaliation against employees who elect to file charges.

**Recommendation:** Your sexual harassment policy should be drafted in language easy to understand and any revisions should be reviewed by legal counsel. A copy of your policy should be posted in a prominent and accessible location to assure all employees will be notified of the company's position.

**In order to conduct business with the PEORIA PARK DISTRICT, you must have a written sexual harassment policy that conforms to the new ACT.**

**FAILURE TO DO SO  
WILL DISQUALIFY YOU AS AN ELIGIBLE VENDOR!!!**

*Please be advised, effective July 1, 1993, Governor Jim Edgar established under Executive Order Number 7 (Public Act 87-1257) that every party to a public contract and every party bidding on a public contract within the State of Illinois must have a written policy statement prohibiting sexual harassment. The following model policy statement is a draft copy provided for use in formulating your company's policy statement*

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## **SEXUAL HARASSMENT POLICY STATEMENT**

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It is the responsibility of each individual employee to refrain from sexual harassment and it is the right of each individual employee to work in an environment free from sexual harassment.

### **DEFINITION OF SEXUAL HARASSMENT**

According to the Illinois Human Rights Act, sexual harassment is defined as:

Any unwelcome sexual advances or requests for sexual favors or any conduct of a sexual nature when

1. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment;
2. submission to or rejection of such conduct by an individual is used as the basis for employment decision(s) affecting such individual; or
3. such conduct has the purpose or effect of substantially interfering with an individual's work performance or creating an intimidating, hostile, or offensive working environment.

The courts have determined that sexual harassment is a form of discrimination under Title VII of the U.S. Civil Rights act of 1964, as amended in 1991. One such example is a case where a qualified individual is denied employment opportunities and benefits that are, instead, awarded to another individual who submits (voluntarily or under duress) to sexual advances or sexual favors. Another example is where an individual is subjected to unwelcome sexual nature in order to receive an employment opportunity.

Other conduct commonly considered to be sexual harassment includes:

- ⇒ Verbal: Sexual innuendoes, suggestive comments, insults, humor and jokes about sex, anatomy or gender-specific traits, sexual propositions, threats, repeated requests for dates, or statement about other employees, even outside of their presence, of a sexual nature.
- ⇒ Non-Verbal: Suggestive or insulting sounds (whistling), leering, obscene gestures, sexually suggestive bodily gestures, "catcalls", "smacking" or "kissing" noises.
- ⇒ Visual: Posters, signs, pin-ups, slogans of a sexual nature.
- ⇒ Physical: Touching, unwelcome hugging or kissing, pinching, brushing the body, coerced sexual intercourse or actual assault.

Sexual harassment most frequently involves a man harassing a woman. However, it can also involve a woman harassing a man or harassment between members of the same gender.

The most severe and overt forms of sexual harassment are easier to determine; however, some sexual harassment is more subtle and depends to some extent on individual perception and interpretation. The trend in the courts is to assess sexual harassment by a standard of what would offend a "reasonable woman" or a "reasonable man", depending upon the gender of the alleged victim.

An example of the most subtle form of sexual harassment is the use of endearments. The use of terms such as "honey", "darling", and "sweetheart" is objectionable to many women who believe that these terms undermine their authority and their ability to deal with men on an equal and professional level.

Another example is the use of a compliment that could potentially be interpreted as sexual in nature. Below are three statements that might be made about the appearance of a woman in the workplace:

- ⇒ “That’s an attractive dress you have on.”
- ⇒ “That’s an attractive dress. It really looks good on you.”
- ⇒ “That’s an attractive dress. You really fill it out well.”

The first statement appears to be simply a compliment. The last is most likely to be perceived as sexual harassment depending on individual perceptions and values. To avoid the possibility of offending an employee, it is best to follow a course of conduct above reproach, or to err on the side of caution.

### **RESPONSIBILITY OF INDIVIDUAL EMPLOYEES**

Each individual employee has the responsibility to refrain from sexual harassment in the workplace. An individual employee who harasses a fellow worker is, of course, liable for his or her individual conduct. The harassing employee will be subject to disciplinary action up to and including discharge in accordance with company/organization policy or a collective bargaining agreement, as appropriate.

### **RESPONSIBILITY OF SUPERVISORY PERSONNEL**

Each supervisor is responsible for maintaining a workplace free of sexual harassment. This is accomplished by promoting a professional environment and by dealing with sexual harassment as with all other forms of employee misconduct.

The courts have found companies/organizations as well as supervisors can be held liable for damages related to sexual harassment by a manager, supervisor, employee, or third party (an individual who is not an employee but does business with a company/organization, such as a contractor, customer, sales representative, or repair person).

Liability is based either on a company/organization's responsibility to maintain a certain level of control and discipline, or on the supervisor acting as an agent of the company/organization. As such, supervisors must act quickly and responsibly, not only to minimize their own liability, but also that the company/organization.

**DRAFT**

### **RESOLUTION OUTSIDE THE COMPANY/ORGANIZATION**

It is hoped that most sexual harassment complaints and incidents can be resolved within a company/organization. However, an employee has the right to contact the Illinois Department of Human Rights (IDHR) or the U.S. Equal Employment Opportunity Commission (EEOC) about filing a formal complaint. An IDHR complaint must be filed within 180 days of the alleged incident(s) unless it is a continuing offense. A complaint with EEOC must be filed within 300 days.

#### ***Illinois Department of Human Rights***

(217) 785-5100 – Springfield  
(217) 785-5125 – TDD Springfield  
(312) 814-6200 – Chicago  
(312) 263-1579 – TDD Chicago

#### ***Illinois Human Rights Commission***

(217) 785-4350 – Springfield  
(217) 785-5125 – TDD Springfield  
(312) 814-6269 – Chicago  
(312) 814-4760 – TDD Chicago

#### ***U.S. Equal Employment Opportunity Commission***

(312) 353-2613 – Chicago District Office  
(800) 669-4000 – Toll Free Within State of Illinois  
(800) 669-6820 – TDD Chicago

An employee who is suddenly transferred to a lower paying job or passed for promotion, after filing a complaint with IDHR or EEOC, may file a retaliation charge, also due 180 days (IDHR) or 300 days (EEOC) from the alleged retaliation.

An employee who has been physically harassed or threatened while on the job may also have grounds for criminal charges of assault and battery.

### **FALSE AND FRIVOLOUS COMPLAINTS**

False and frivolous charges refer to cases where the accuser is using a sexual complaint to accomplish some end other than stopping sexual harassment. It does not refer to charges made in good faith which cannot be proven. Given the seriousness of the consequences for the accused, a false and frivolous charge is a severe offense that can itself result in disciplinary action.



## ILLINOIS DRUG FREE WORKPLACE CERTIFICATION

The undersigned Contractor/Vendor hereby certifies that it will comply with all provisions of the Illinois Drug Free Workplace Act of 1991.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Contractor/Vendor

\_\_\_\_\_

By: \_\_\_\_\_





## SUBSTANCE ABUSE PREVENTION PROGRAM CERTIFICATION

Project Name: \_\_\_\_\_

Location: \_\_\_\_\_

The Substance Abuse Prevention on Public Works Act Public Act 95-0635, prohibits the use of drugs and alcohol, as defined in the Act, by employees of the Contractor and by employees of all approved Subcontractors while performing work on a public works project. The Contractor/Subcontractor herewith certifies that it has a superseding collective bargaining agreement or makes the public filing of its written substance abuse prevention program for the prevention of substance abuse among its employees who are not covered by a collective bargaining agreement dealing with the subject as mandated by the Act.

A. The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has signed collective bargaining agreements that are in effect for all of its employees, and that deal with the subject matter of Public Act 95-0635.

\_\_\_\_\_  
Contractor/Subcontractor

\_\_\_\_\_  
Name of Authorized Representative (type or print)

\_\_\_\_\_  
Title of Authorized Representative (type or print)

\_\_\_\_\_  
Signature of Authorized Representative Date

B. The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has in place, for all of its employees not covered by a collective bargaining agreement that deals with the subject of the Act, the attached substance abuse prevention program that meets or exceeds the requirements of Public Act 95-0635.

\_\_\_\_\_  
Contractor/Subcontractor

\_\_\_\_\_  
Name of Authorized Representative (type or print)

\_\_\_\_\_  
Title of Authorized Representative (type or print)

\_\_\_\_\_  
Signature of Authorized Representative Date



## **CERTIFICATION OF SAFETY COMPLIANCE**

The undersigned Contractor/Vendor hereby certify that they and their sub-contractors will comply with any and all prevailing occupational safety and health standards including, but not limited to the following: hazard communication, hearing conservation, respirator use, permit required confined space entry, scaffolding, personal protective equipment, ladder usage, ventilation, flammable and combustible liquids handling and storage and lockout/tagout. Such compliance may include a training component or require a written program of compliance.

Dated this day of \_\_\_\_\_, 20 \_\_\_\_.

CONTRACTOR/VENDOR: \_\_\_\_\_

By: \_\_\_\_\_

**PLEASURE DRIVEWAY AND PARK DISTRICT  
OF PEORIA, ILLINOIS**

Individual Contractor Form

**CONTRACTOR CERTIFICATION**

I, \_\_\_\_\_, do hereby certify that I am a contractor who has not been barred from bidding on a public contract as a result of a violation of either Section 33E-3 (bid-rigging) or Section 33E-4 (bid rotating) of the Illinois Criminal Code, Illinois Compiled Statutes 720 ILCS 5/33E-3 and 5/33E-4.

\_\_\_\_\_  
Contractor

By: \_\_\_\_\_

Subscribed and Sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Notary Public

My Commission Expires \_\_\_\_\_, 20\_\_\_\_

**PLEASURE DRIVEWAY AND PARK DISTRICT  
OF PEORIA, ILLINOIS**

Corporate or Partnership Contractor Form

**CONTRACTOR CERTIFICATION**

I, \_\_\_\_\_, a duly authorized agent of  
(Agent)

\_\_\_\_\_, do hereby certify that neither  
(Contractor)

\_\_\_\_\_, nor any individual presently  
(Contractor)

affiliated with \_\_\_\_\_, has been barred from  
(Contractor)

bidding on a public contract as a result of a violation of either Section 33E-3 (bid-rigging) or Section 33E-4 (bid rotating) of the Illinois Criminal Code, Illinois Compiled Statutes, 720 ILCS 5/33E-3 and 5/33E-4.

\_\_\_\_\_  
Contractor

By: \_\_\_\_\_

Subscribed and Sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Notary Public

My Commission Expires \_\_\_\_\_, 20\_\_\_\_

## MAJOR SUBCONTRACTORS LIST

The following tabulation of Major Subcontractors shall be attached and made a condition of the Bid. The Bidder expressly understands and agrees to the following provisions:

- A. If awarded a Contract as a result of this Bid, the major subcontractors used in the prosecution of the work will be those listed below.
- B. The following list includes all subcontractors who will perform work representing 5% (five percent) or more of the total Base Bid.
- C. The subcontractors listed below are financially responsible and are qualified to perform the work required.
- D. The subcontractors listed below comply with the requirements of the Contract Documents.
- E. Any substitutions in the subcontractors listed below shall be requested in writing by the Contractor and must be approved in writing by the Owner. No sub-subcontractors will be allowed unless specifically stated on the form. All pertinent financial, performance, insurance and other applicable information shall be submitted with the request for substitution(s). Owner shall respond to such requests within 14 calendar days following the submission of all necessary information to the full satisfaction of the Owner.
- F. Failure to submit the list of Major Subcontractors as stated herein shall constitute a material variation from the Invitation to Bid; and any such Bid may be rejected by the Owner.

Subcontractor Name	Address	Telephone	Area of Work	Minority/Women Owned Business (Yes/No)

(Attach additional sheets if required)

END OF MAJOR SUBCONTRACTORS FORM

**Directory of Minority & Women Owned Business Enterprises**  
**Compiled with Information from**  
**City of Peoria Equal Opportunity Office**  
**Peoria Housing Authority**  
**Peoria Park District**

**Revised 11/13**

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<b>Absolute Risk Management Strategies</b> Kelly Peterson	MBE Construction Safety, Job Site Safety Plan Development, Job Site Risk Assessment, Construction OSHA Training 416 Main St., Suite 533, Peoria, IL 61602	309-256-8471 309-222-4050 Cell
<b>Adams Septic &amp; Sewer Services, Inc.</b> Michelle Adams	WBE Septic and Sewer Contractor 1641 N. Tiber Ridge Ct., East Peoria, IL 61611	309-691-6113
<b>Aerial Work Services Company</b>	MBE Landscaping and Seeding 13805 Wadsworth Road, Wadsworth, IL	847-662-5321 847-662-5321 Fax
<b>AFE Construction, Inc.</b> Tommy and Monica Arbuckle	WBE General Contractor WBE P.O. Box 199, Mackinaw, IL 61755	309-303-7065 866- 491-2209 Fax
<b>A &amp; L Salvage, Inc.</b> Archie Brown	MBE Clean Up, Tree Cutting & Removal, Truck Salvaging 824 W. Brons Peoria, IL 61604	309-682-4412
<b>Alexander Brothers Construction Co.</b> Allester Alexander	MBE Concrete, Demolition, Excavation, Landscaping P.O. Box 1508, Peoria, IL 61605	309-673-6768
<b>A. Lucas &amp; Sons Steel</b> Margaret Hanley	WBE Structural Steel Fabrication 1328 SW Washington, Peoria, IL 61602	309-673-8547 309-673-7213 Fax
<b>Ambri Inc.</b> Robert J. Hunt. Jr.	MBE Drywall, Flooring, Painting, Cabinetry 9101 S. Nashville Ave., Oak Lawn, IL 60453	708-233-0217 Ph and Fax
<b>Atherton, P.A.</b> Patricia Atherton	WBE Asphalt, Concrete, Demolition, Excavation 57 Eichorn Road, Spring Bay, IL 61611	309-822-8575 309-822-8782 Fax
<b>A Unique Maintenance Service</b> Andrea McKnight	MBE Commercial and Industrial Construction Cleanup 2101 N. North St., Peoria, IL 61604	309-685-7197 309-685-4472 Fax
<b>Braun Excavating, Inc.</b> Teresa Braun	WBE Demolition, Digging of Footings, Excavation, Pipe Laying 24 Gulf Stream Bartonville, IL 61607	309-697-5454 309-697-6567 Fax
<b>Brown, Leo Trucking, Inc.</b> Leo Brown	MBE Trucking/Hauling P. O. Box 9057, Peoria, IL 61612	309-685-6710 309-685-0759 Fax
<b>Buddy's Landscaping</b> Dexter Davis	MBE Landscaping P. O. Box 1836, Bloomington, IL 61702	309-824-9211 309-454-3342 Fax
<b>Capitol Trucking</b> Eddie Washington	MBE Janitorial Service, Snow Removal, Trucking 2803 Creston Ln., Peoria, IL 61604	309-679-9388 309-339-5313 Cell
<b>Central IL Construction Inc.</b> Jessica Youngman	WBE Land Surveying 416 Germantown Rd., Germantown, IL 61548	309-383-3156
<b>Central IL Rebar Insulators</b> Roger Fleming	MBE Structural Steel and Rebar Replacement 4719 Ridgelawn, Peoria, IL 61615	309-258-1379 888-387-5716 Fax
<b>Central Landscaping</b> Donna Brandenburg	WBE Landscaping 12512 Mendell Rd., Princeville, IL 61559	309-385-4832 309-385-2644 Fax
<b>CJL Landscaping, Inc.</b> Rebecca J. Kelch	WBE Landscaping 10902 W. U. S. Highway 150, Brimfield, IL 61517	309-691-9200 309-691-5131 Fax

<b>C &amp; L Construction &amp; Roofing Co.</b> Jeanette Burns	WBE Roofing, Electrical, Plumbing P.O. Box 416, Peoria, IL 61651	309-672-2641
<b>Clean Sweep Lead Abatement</b> Ricky Walker	MBE Lead-Based Paint Removal 4014 Brighton Peoria, IL 61615	309-689-1146
<b>Clevenger Contractors Inc.</b> Verlee Clevenger	WBE Guardrail, Bridge Rail, Seeding, Fencing 355 Naples Rd., P.O. Box 19, Bluffs, IL 62621	217-754-3411 217-754-3537 Fax
<b>CNS Forestry &amp; Landscaping LLC</b> Christine Schilling	WBE Landscaping, Seeding, Sodding, Tree Removal 1813 1000 <sup>th</sup> St., Lincoln, IL 62656	217-792-3808 217-792-3808 Fax
<b>Cordova Construction</b> Tina Christopher	WBE Concrete Removal, Curb & Gutter Removal, Sidewalk Removal 2424 N. Ellory Road, Peoria, IL 61615	309-674-8810
<b>Cornerstone Builders &amp; Developers</b> Ron Touilly	WBE 6129 W. Southport Rd., Peoria, IL 61615	309-674-9000 309-673-7783 Fax
<b>CSS (Construction Specialties &amp; Services)</b> Dave Suzuki	MBE Building Specialties, Design, Engineering, Estimating P. O. Box 120703 Peoria, IL 61614	309-685-8453
<b>Davis Brothers Construction Company</b> Russell Davis	MBE Trucking/Hauling 1522 W. Kettelle St. Peoria, IL 61605	309-683-6931
<b>DECA Realty</b> Eddie J. Washington	MBE Real Estate Broker, Appraiser 417 W. Main, Peoria, IL 61606	309-637-3322 309-682-3922 Fax
<b>Design Air Inc.</b> Courtney Eston	MBE Commercial Air Duct Cleaning 3806 W. Hearthwood Dr., Dunlap, IL 61525	309-693-8632 309-243-2102 Fax
<b>Dunbar Transfer</b>	WBE Trucking P.O. Box 315, Chillicothe, IL 61523-0315	309-303-5122
<b>E &amp; D Trucking and Hauling, Inc.</b> Eddie Proctor	MBE Trucking/Hauling 1913 N. Idaho, Peoria, IL 61604	309-682-4336 309-251-6736 Cell
<b>Earth Care Unlimited, Inc.</b> Monica Thomley	WBE Seeding, Sodding, Landscaping 3108 Panther Grove Rd., Ashland, IL 62612	217-452-7320 217-452-7178 Fax
<b>Economy Painting &amp; Decorating</b> Linda Coffman	MBE Painting 9315 W. Goetz, Hanna City, IL 61536	309-565-7300
<b>Elegant Installations</b> James Barrett	MBE Installation/sales custom drapery, blinds, shade, shutters 125 E. Elaine, Peoria, IL 61614	309-648-8118 309-93-0007 Fax
<b>Fashion Floors, Inc.</b> Yvonne Hand	WBE Floorcoverings 930 S. 2 <sup>nd</sup> Street, Suite B, Pekin, IL 61554	309-353-8272 309-347-1109 Fax
<b>Fire &amp; Ice Heating and Air</b> J.T. Toombs	MBE HVAC Maintenance, Installment 922 W. Smith St., Peoria, IL 61605	309-219-3708
<b>Fuhrmann Engineering Inc.</b> Kathy Shelter	WBE Civil Engineers / Land Surveyors 456 Fulton St., Suite 146	309-713-3498 Ext. 5
<b>Flessner Electric</b>	WBE Electrical 3600 S. Cameron Ln., Mapleton, IL 61547	309-697-2484
<b>G&amp;L Trucking &amp; Construction</b>	WBE 1113 W. Groveland Ave., Peoria, IL 61604	309-686-9334
<b>Garza Heating &amp; Cooling</b>	MBE 1304 S. Western Ave., Peoria, IL 61605	309-645-6294
<b>Ronald A. Givens &amp; Associates</b> Ronald A. Givens	MBE Insurance & Investments 2616 N. Lehman, Peoria, IL 61602	309-685-4588 309-676-3152 Fax
<b>Gutters &amp; More</b>	WBE 157 Thunderbird Ln., East Peoria, IL 61611	309-694-4000 309-694-3356 Fax

<b>Hancock Trucking, Inc.</b> Nancy Hancock	WBE Trucking/Hauling 30570 Hancock Road Mackinaw, IL 61755	309-447-6733
<b>Hanley Steel, Inc.</b> Jill Hanley	WBE Fabricated Structural and Miscellaneous Steel 8811 N. Industrial Rd., Peoria, IL 61615	309-692-5250 309-692-5251 Fax
<b>Heart Technologies</b> Jim Bainter, Brad Armstrong	WBE Data and Telephone, Communication and Construction 3105 N. Main Street, Peoria, IL 61611	309-427-7000 309-427-7007 Fax
<b>Hermann &amp; Associates</b> Alisha Hermann	WBE Consultant Engineering 5835 N. Galena Rd., Peoria, IL 61614	309-687-5566 309-687-0571 Fax
<b>Hopgood Painting</b> Bruce Hopgood		309-826-4981
<b>Horan Construction, Inc.</b> Susan Arnholt	WBE Carpentry, Concrete, Demolition, General, Wrecking 1720 W. Chanute Road Peoria, IL 61615	309-691-3133 309-691-1841 Fax
<b>Infrastructure Engineering</b> Thu Truitt	MBE Civil Engineering 456 Fulton St., Suite 104, Peoria, IL 61602	309-637-9200 309-637-9210
<b>Intech Innovations</b> John McCrary	WBE Audio/Video Design and Integration Washington, IL 61571	309-370-6676 309-745-9691 Fax
<b>J Construction</b> Frank Coates	MBE General 1810 Stever, Peoria, IL 61605	309-303-3919 Cell
<b>JAKS Construction Inc.</b> John Spencer	Disabled Vet Concrete Cutting, Drilling, Sealing 19319 Great Crane Rd., Bloomington, IL 61705	800-455-9662 309-455-9662 Fax
<b>J. D. Masonry Services</b> Hurdestine Dabbs	M/WBE Concrete 907 E. Arcadia, Peoria, IL 61603	309-453-6533 Cell
<b>J&amp;J Manufacturing</b>	110 W. Walnut, Chillicothe, IL 61523	209-274-3141
<b>J &amp; J Construction</b> Herman Johnson	MBE Demolition, Excavation 1710 W. Garden Street, Peoria, IL 61605	309-673-8616 309-676-8292 Fax
<b>J &amp; K Construction</b> James Tilman	MBE General 4003 N. Rochelle, Peoria, IL 61615	309-685-8554 309-685-8554 Fax
<b>JM Industrial Supply</b> Ron Given	MBE Maintenance Items, Tools, Soaps 2323 Lakeshore, Pekin, IL 61554	309-346-5796 309-347-5100 Fax
<b>Joseph &amp; Associates Construction Inc.</b> Elva Jones	M/WBE Rough and Finish Carpentry 325 Sanford St., East Peoria, IL 61611	309-550-5639 309-282-6013 Fax
<b>Kahbeah Contracting &amp; Trucking</b> Larry Kahbeah	MBE Trucking/Hauling 510 N. Yates, P. O. Box 56, Tallula, IL 62688	217-634-4157 217-634-4157 Fax
<b>Kreiling Roofing Co.</b>	WBE Slate, Wood Shakes, Tile, Thatch, Custom Fabricated Copper and Steel, Residential and Commercial 2335 W. Altorfer Dr., Peoria, IL 61615	309-673-3649
<b>LNR Construction &amp; Trucking</b> Demonte Davis	MBE Concrete, Trucking 2200 Linsley St., Peoria, IL 61604	309-682-6331
<b>LV Enterprise</b> John L. Palmer	MBE Trucking/Hauling 303 E. Archer Avenue, Peoria, IL 61603	309-657-2420 309-682-8872 Fax
<b>M &amp; A Plumbing</b> Michael Abner	MBE Plumbing 6216 N. Devonshire Avenue, Peoria, IL 61615	309-689-0133 309-689-0133 Fax
<b>McGinnis Transportation</b> Beth McGinnis	WBE Trucking, Tandem, 24 » Box Truck 336 Riverview Dr., Creve Cœur, IL 61610	309-369-4465 309-694-1604 Fax
<b>M&amp;K Heating &amp; Cooling</b> Reggie Williams	MBE HVAC 2406 W. Newman Parkway, Peoria, IL 61604	309-256-6129
<b>M &amp; L Plumbing</b> Manzell Lawson	MBE Plumbing 1309 W. Lincoln, Peoria, IL 61605	309-674-8466



<b>Mid-Illinois Companies, Corp.</b>	WBE Metal Framing, Insulation, Drywall, Plaster and Exterior Insulation, Acoustical Ceilings and Wall Panels, Painting and Wall Covering, Access Flooring 905 NE Adams St., Peoria, IL 61603	309-674-0717 309-674-5802 Fas
<b>Midwest Construction Services</b> Sheila Shover	M/WBE Traffic Control Products, Trucking/Hauling P. O. Box 4185, Bartonville, IL 61607	309-697-1000 309-697-1004 Fax
<b>Millennia Professional Services of IL</b> Paul Moreno	MBE Civil Engineering, Erosion Control, Landscaping, Sewer Construction, Surveying, Retaining Walls 850 N. Main St., Morton, IL 61550	309-321-8141 309-321-8142
<b>Molleck Electric</b>	WBE Electrical 14926 W. Winchester Dr., Brimfield, IL 61517	309-446-3483
<b>Ordaz Construction Co. Inc.</b> Elizabeth Ordaz Mercer	WBE Concrete 8010 N. Sommer St., Peoria, IL 61615	309-693-3338 309-693-5505 Fax
<b>Pendleton Excavating</b> Darold Pendleton	MBE Excavation, Sand & Gravel 1207 W. MacQueen Peoria, IL 61605	309-685-9133 309-685-9133 Fax
<b>Porter, V. L.</b> Vincent Porter	MBE Concrete, General 500 W. North, Suite 10, Springfield, IL 62704	217-744-8050
<b>RNS Electric Inc.</b> Regina Slonneger	WBE Electrical 28558 Irish Lane, Washington, IL 61571	309-444-5200 309-444-5201 Fax
<b>RTM Concrete Construction</b> Morris Stokes	MBE Concrete 2207 W. Wiswall, Peoria, IL 61605	309-637-4237
<b>N. E. Rudd Trucking</b> Nanette Jenkins-Rudd	WBE Trucking/Hauling P.O. Box 14, 107 Washington St., Kingston Mines, IL 61539	309-389-4150 309-389-2849 Fax
<b>Nelton Construction</b> Damon Nelton	MBE Concrete, Residential and Commercial Construction 1180 Upper Spring Bay Rd., East Peoria, IL 61611	309-694-9837 309-694-9852 Fax
<b>Professional Contracting Services Inc.</b> Don Mackey	MBE Concrete, Masonry, Carpentry, Site Work 2669 N. County Hwy. 19, Canton, IL 61520	309-647-9744 309-208-7089 Cell
<b>Ridge Painting</b> Vickie Ridge	MBE Painting 4216 N. Patricia Ct., Peoria, IL 61615	309-688-5610
<b>Rufus Construction Company</b> Rufus Nelson	MBE Painting, Roofing, Remodeling 1819 S. Idaho Street, Peoria, IL 61605	309-673-6776 309-497-9453 Cell
<b>Searle Trucking, Inc.</b> Debbie Searle	WBE Trucking/Hauling P. O. Box 1084, Peoria, IL 61653	309-686-0708 309-688-5365 Fax
<b>Sherwin Baker &amp; Associates, Inc.</b> Sherwin Baker	MBE Construction Management, Consulting, Engineering, Technical Services 103 E. Archer, Peoria, IL 61603	309-688-4203 309-688-4203 Fax
<b>Smeltz, V.</b>	MBE Excavation P. O. Box 64, Washington, IL 61571	
<b>Tabitha Ventures, Inc.</b> Edward O. Taiwo	MBE Asphalt, Concrete, Demolition, Earthwork, Electrical, Excavation, General, HVAC, Landscaping, Painting, Plumbing, Resurfacing, Roofing, Trucking/Hauling 2000 W. Pioneer Parkway, Suite 7B, Peoria, IL 61615	309-692-1473 309-692-1564 Fax
<b>The Communication Connection</b> Jennifer Stone	WBE Communication, Wire and Cable, Electrical and Telephone Products 604 Filmore Street Harrisburg, PA 17104	717-561-7267
<b>Three Cross Development</b> J. T. Donelson	MBE Concrete, General, Sidewalk 1519 W. Millman Peoria, IL 61605	309-637-1238

<b>Third Hand Landscaping</b> Tommy Harris	MBE Landscaping 2313 W. Lincoln, Peoria, IL 61605	309-673-6702
<b>Thompson Brothers Inc.</b> Todd Thompson	MBE General Carpentry and Construction, Interior Finish Work, Millwork 221 Court St., Pekin, IL 61554	309-613-0254
<b>Thornton Rave</b> dba Illini Concrete Co. of Illinois	MBE Precast and Prestressed Concrete, Demolition, Excavating and Grading, Drainage, Aggregate Bases and Surfaces, Pavement Patching 929 E. Grove St., Suite A, Bloomington, IL 61701	309-585-2376 309-585-2472 Fax
<b>Tilman Electric</b> James Tilman	MBE Electrical 4003 N. Rochelle, Peoria, IL 61615	309-685-8554 309-264-3903 Cell
<b>TOS Trucking</b> John McCullum	MBE Trucking 11501 Farmington Rd., Hanna City, IL 61536	309-208-1927
<b>Wards Custom Landscaping</b> Wardine Smith	MBE Landscaping 3804 W. Pagewood Dr., Peoria, IL 61615	309-671-1890 309-671-1893 Fax
<b>Whitaker Construction</b> Lionel Whitaker	MBE Concrete, General, Curb & Gutter, Sidewalk 4010 N. Marbleway Dr., Peoria, IL 61615	309-682-9305 309-208-0476 Cell
<b>Wiegand &amp; Storrer Inc.</b> Leslie Savant	WBE Horizontal Boring, Sewer, Watermain 3210 E. Washington Road, East Peoria, IL 61611	309-699-6457 309-699-9660 Fax
<b>Willie Veneble Construction</b> Willie Venable	MBE Construction, Concrete Removal, Demolition 1000 E. Wilcox, Peoria, IL 61605	309-686-1429 309-360-0757 Cell
<b>Willis Electric</b> Phyllis Willis	WBE Electrical P.O. Box 545, Chillicothe, IL 61523	309-579-2926

## Peoria 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		BLD		26.700	28.200	1.5	1.5	2.0	7.700	16.21	0.000	0.800	
ASBESTOS ABT-GEN		HWY		29.910	31.410	1.5	1.5	2.0	7.700	17.47	0.000	0.800	
ASBESTOS ABT-MEC		BLD		32.510	35.010	1.5	1.5	2.0	11.47	10.96	0.000	0.720	
BOILERMAKER		BLD		38.000	41.000	2.0	2.0	2.0	7.070	15.99	0.000	0.400	
BRICK MASON		BLD		32.380	33.880	1.5	1.5	2.0	8.600	9.870	0.000	0.590	
CARPENTER		BLD		30.880	33.130	1.5	1.5	2.0	8.000	15.71	0.000	0.520	
CARPENTER		HWY		32.700	34.950	1.5	1.5	2.0	8.000	15.81	0.000	0.520	
CEMENT MASON		BLD		28.050	29.800	1.5	1.5	2.0	7.500	15.65	0.000	0.500	
CEMENT MASON		HWY		29.280	30.780	1.5	1.5	2.0	7.500	16.02	0.000	0.500	
CERAMIC TILE FNSHER		BLD		29.890	0.000	1.5	1.5	2.0	8.600	10.05	0.000	0.580	
ELECTRIC PWR EQMT OP		ALL		38.300	45.290	1.5	1.5	2.0	6.150	10.73	0.000	0.380	
ELECTRIC PWR GRNDMAN		ALL		26.280	45.290	1.5	1.5	2.0	5.790	7.360	0.000	0.260	
ELECTRIC PWR LINEMAN		ALL		42.540	45.290	1.5	1.5	2.0	6.280	11.92	0.000	0.430	
ELECTRIC PWR TRK DRV		ALL		27.560	45.290	1.5	1.5	2.0	5.830	7.720	0.000	0.280	
ELECTRICIAN		ALL		34.820	37.320	1.5	1.5	2.0	6.500	11.68	0.000	0.800	
ELECTRICIAN		BLD		34.820	37.320	1.5	1.5	2.0	6.100	11.43	0.000	0.400	
ELECTRONIC SYS TECH		BLD		28.250	30.250	1.5	1.5	2.0	6.350	10.54	0.000	0.400	
ELEVATOR CONSTRUCTOR		BLD		41.690	46.900	2.0	2.0	2.0	13.57	14.21	3.340	0.600	
GLAZIER		BLD		31.870	33.870	1.5	1.5	1.5	10.25	7.700	0.000	1.250	
HT/FROST INSULATOR		BLD		43.350	45.850	1.5	1.5	2.0	11.47	12.36	0.000	0.720	
IRON WORKER		BLD		32.190	34.090	0.0	0.0	0.0	9.490	13.91	0.000	0.000	
IRON WORKER		HWY		35.980	37.980	0.0	0.0	0.0	9.490	13.91	0.000	0.000	
LABORER		BLD		25.700	27.200	1.5	1.5	2.0	7.700	16.21	0.000	0.800	
LABORER		HWY		29.160	30.660	1.5	1.5	2.0	7.700	17.47	0.000	0.800	
LABORER, SKILLED		BLD		26.100	27.600	1.5	1.5	2.0	7.700	16.21	0.000	0.800	
LABORER, SKILLED		HWY		29.460	30.960	1.5	1.5	2.0	7.700	17.47	0.000	0.800	
LATHER		BLD		30.880	33.130	1.5	1.5	2.0	8.000	15.71	0.000	0.520	
MACHINERY MOVER		HWY		35.980	37.980	0.0	0.0	0.0	9.490	13.91	0.000	0.000	
MACHINIST		BLD		45.350	47.850	1.5	1.5	2.0	7.260	8.950	1.850	0.000	
MARBLE FINISHERS		BLD		29.890	0.000	1.5	1.5	2.0	8.600	10.05	0.000	0.580	
MARBLE MASON		BLD		31.650	32.900	1.5	1.5	2.0	8.600	10.05	0.000	0.580	
MILLWRIGHT		BLD		31.060	33.310	1.5	1.5	2.0	8.000	15.87	0.000	0.520	
MILLWRIGHT		HWY		33.060	35.310	1.5	1.5	2.0	8.000	15.95	0.000	0.520	
OPERATING ENGINEER		BLD 1		37.050	40.050	1.5	1.5	2.0	7.000	17.48	0.000	3.000	
OPERATING ENGINEER		BLD 2		34.450	40.050	1.5	1.5	2.0	7.000	17.48	0.000	3.000	
OPERATING ENGINEER		BLD 3		30.160	40.050	1.5	1.5	2.0	7.000	17.48	0.000	3.000	
OPERATING ENGINEER		HWY 1		38.150	41.150	1.5	1.5	2.0	7.250	18.23	0.000	3.000	
OPERATING ENGINEER		HWY 2		35.460	41.150	1.5	1.5	2.0	7.250	18.23	0.000	3.000	
OPERATING ENGINEER		HWY 3		31.030	41.150	1.5	1.5	2.0	7.250	18.23	0.000	3.000	
PAINTER		ALL		33.650	35.650	1.5	1.5	1.5	10.30	8.200	0.000	1.350	
PAINTER SIGNS		BLD		33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000	
PILEDRIIVER		BLD		31.880	34.130	1.5	1.5	2.0	8.000	15.71	0.000	0.520	
PILEDRIIVER		HWY		33.700	35.950	1.5	1.5	2.0	8.000	15.81	0.000	0.520	
PIPEFITTER		BLD		37.400	41.510	1.5	1.5	2.0	7.000	11.63	0.000	1.060	
PLASTERER		BLD		28.140	29.770	1.5	1.5	2.0	7.500	15.00	0.000	0.870	
PLUMBER		BLD		34.520	37.630	1.5	1.5	2.0	7.000	13.86	0.000	0.950	
ROOFER		BLD		30.580	32.110	1.5	1.5	2.0	8.450	7.220	0.000	0.250	
SHEETMETAL WORKER		BLD		32.430	34.050	1.5	1.5	2.0	9.120	15.55	0.000	0.780	
SIGN HANGER		HWY		35.980	37.980	0.0	0.0	0.0	9.490	13.91	0.000	0.000	
SPRINKLER FITTER		BLD		37.120	39.870	1.5	1.5	2.0	8.420	8.500	0.000	0.350	
STEEL ERECTOR		HWY		35.980	37.980	0.0	0.0	0.0	9.490	13.91	0.000	0.000	
STONE MASON		BLD		32.380	33.880	1.5	1.5	2.0	8.600	9.870	0.000	0.590	
SURVEY WORKER	-->	NOT IN	EFFECT	ALL	28.900	30.400	1.5	1.5	2.0	7.700	14.86	0.000	0.800
TERRAZZO FINISHER		BLD		29.890	0.000	1.5	1.5	2.0	8.600	10.05	0.000	0.580	
TERRAZZO MASON		BLD		31.650	32.900	1.5	1.5	2.0	8.600	10.05	0.000	0.580	
TILE MASON		BLD		31.650	32.900	1.5	1.5	2.0	8.600	10.05	0.000	0.580	
TRUCK DRIVER		ALL 1		33.000	36.550	1.5	1.5	2.0	11.10	5.230	0.000	0.250	
TRUCK DRIVER		ALL 2		33.480	36.550	1.5	1.5	2.0	11.10	5.230	0.000	0.250	
TRUCK DRIVER		ALL 3		33.700	36.550	1.5	1.5	2.0	11.10	5.230	0.000	0.250	
TRUCK DRIVER		ALL 4		34.010	36.550	1.5	1.5	2.0	11.10	5.230	0.000	0.250	
TRUCK DRIVER		ALL 5		34.900	36.550	1.5	1.5	2.0	11.10	5.230	0.000	0.250	
TRUCK DRIVER		O&C 1		27.280	30.220	1.5	1.5	2.0	11.40	5.440	0.000	0.250	
TRUCK DRIVER		O&C 2		27.680	30.220	1.5	1.5	2.0	11.40	5.440	0.000	0.250	
TRUCK DRIVER		O&C 3		27.860	30.220	1.5	1.5	2.0	11.40	5.440	0.000	0.250	

TRUCK DRIVER	O&C 4	28.110	30.220	1.5	1.5	2.0	11.40	5.440	0.000	0.250
TRUCK DRIVER	O&C 5	28.850	30.220	1.5	1.5	2.0	11.40	5.440	0.000	0.250
TUCKPOINTER	BLD	32.380	33.880	1.5	1.5	2.0	8.600	9.870	0.000	0.590

**Legend:** RG (Region)

TYP (Trade Type - All, Highway, Building, Floating, Oil &amp; Chip, Rivers)

C (Class)

Base (Base Wage Rate)

FRMAN (Foreman Rate)

M-F&gt;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 &amp; Welfare Insurance)

Pensn (Pension)

Vac (Vacation)

Trng (Training)

**Explanations**

## PEORIA 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.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

## 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, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

## ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

## LABORER, SKILLED - BUILDING

The skilled laborer building (BLD) classification shall encompass the following types of work, irrespective of the site of the work: cutting & acetylene torch, gunnite nozzlemen, gunnite pump men & pots, kettlemen & carriers of men handling hot stuff, sandblaster nozzle men, sandblasting pump men & pots, setting up and using concrete burning bars, wood block setters, underpinning & shoring of existing buildings, and the unload-ing and handling of all material coated with creosote.

## LABORER, SKILLED - HIGHWAY

The skilled laborer heavy & highway (HWY) classification shall encompass the following types of work, irrespective of the site of the work: jackhammer & drill operator, gunite pump & pot man, puddlers, vibrator men, wire fabric placer, sandblast pump & pot man, strike off concrete, unloading, handling & carrying of all creosoted piles, ties or timber, concrete burning bars, power wheelbarrows or buggies, asphalt raker, brickset-ers, cutting torchman (electric & acetylene), men setting lines to level forms, form setters, gunite nozzle man & sandblasting nozzle man, power man, and rip-rapping by hand.

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

## TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vactor trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

## TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

## OPERATING ENGINEERS - BUILDING

Class 1. Cranes; Overhead Cranes; Gradall; All Cherry Pickers; Mechanics; Central Concrete Mixing Plant Operator; Road Pavers (27E - Dual Drum - Tri Batchers); Blacktop Plant Operators and Plant Engineers; 3 Drum Hoist; Derricks; Hydro Cranes; Shovels; Skimmer Scoops; Koehring Scooper; Drag Lines; Backhoe; Derrick Boats; Pile Drivers and Skid Rigs; Clamshells; Locomotive Cranes; Dredge (all types) Motor Patrol; Power Blades - Dumore - Elevating and similar types; Tower Cranes (Crawler-Mobile) and Stationary; Crane-type Backfiller; Drott Yumbo and similar types considered as Cranes; Caisson Rigs; Dozer; Tournadozer; Work Boats; Ross Carrier; Helicopter; Tournapulls - all and similar types; Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Heavy Equipment Greaser; CMI, CMI Belt Placer, Auto Grade & 3 Track and similar types; Side Booms; Multiple Unit Earth Movers; Creter Crane; Trench Machine; Pump-crete-Belt Crete-Squeeze Cretes-Screw-type Pumps and Gypsum; Bulker & Pump - Operator will clean; Formless Finishing Machine; Flaherty Spreader or similar types; Screed Man on Laydown Machine; Wheel Tractors (industrial or Farm-type w/Dozer-Hoe-Endloader or other attachments); F.W.D. & Similar Types; Vermeer Concrete Saw.

Class 2. Dinkeys; Power Launches; PH One-pass Soil Cement Machine (and similar types); Pugmill with Pump; Backfillers; Euclid Loader; Forklifts; Jeeps w/Ditching Machine or other attachments; Tunneluger; Automatic Cement and Gravel Batching Plants; Mobile Drills (Soil Testing) and similar types; Gurries and Similar Types; (1) and (2) Drum Hoists (Buck Hoist and Similar Types); Chicago Boom; Boring Machine & Pipe Jacking Machine; Hydro Boom; Dewatering System; Straw Blower; Hydro Seeder; Assistant Heavy Equipment Greaser on Spread; Tractors (Track type) without Power Unit pulling Rollers; Rollers on Asphalt -- Brick Macadem; Concrete Breakers; Concrete Spreaders; Mule Pulling Rollers; Center Stripper; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Cement Finishing Machine; Barber

Green or similar loaders; Vibro Tamper (All similar types)  
Self-propelled; Winch or Boom Truck; Mechanical Bull Floats; Mixers over 3 Bag to 27E; Tractor pulling Power Blade or Elevating Grader; Porter Rex Rail; Clary Screed; Truck Type Hoptoe Oilers; Fireman; Spray Machine on Paving; Curb Machines; Truck Crane Oilers; Oil Distributor; Truck-Mounted Saws.

Class 3. Air Compressor; Power Subgrader; Straight Tractor; Trac Air without attachments; Herman Nelson Heater, Dravo, Warner, Silent Glo, and similar types; Roller: Five (5) Ton and under on Earth or Gravel; Form Grader; Crawler Crane & Skid Rig Oilers; Freight Elevators - permanently installed; Pump; Light Plant; Generator; Conveyor (1) or (2) - Operator will clean; Welding Machine; Mixer (3) Bag and Under (Standard Capacity with skip); Bulk Cement Plant; Oiler on Central Concrete Mixing Plant.

#### OPERATING ENGINEERS - HEAVY AND HIGHWAY CONSTRUCTION

CLASS 1. Cranes; Hydro Cranes; Shovels; Crane Type Backfiller; Tower, Mobile, Crawler, & Stationary Cranes; Derricks; Hoists (3 Drum); Draglines; Drott Yumbo & Similar Types considered as Cranes; 360 Degree Swing Excavator (Shears, Grapples, Movacs, etc.); Back Hoe; Derrick Boats; Pile Driver and Skid Rigs; Clam Shell; Locomotive - Cranes; Road Pavers - Single Drum - Dual Drum - Tri Batcher; Motor Patrols & Power Blades - Dumore - Elevating & Similar Types; Mechanics; Central Concrete Mixing Plant Operator; Asphalt Batch Plant Operators and Plant Engineers; Gradall; Caisson Rigs; Skimmer Scoop - Koering Scooper; Dredges (all types); Hoptoe; All Cherry Pickers; Work Boat; Ross Carrier; Helicopter; Dozer; Tournadozer; Tournapulls - all and similar types; Operation of Concrete and all Recycle Machines; Multiple Unit Earth Movers; Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Operation of Material Crusher, Screening Plants, and Tunnel Boring Machine; Heavy Equipment Greaser (top greaser on spread); CMI, Auto Grade, CMI Belt Placer & 3 Track and Similar Types; Side Booms; Asphalt Heater & Planer Combination (used to plane streets); Wheel Tractors (with Dozer, Hoe or Endloader Attachments); CAT Earthwork Compactors and Similar Types; Blaw Knox Spreader and Similar Types; Trench Machines; Pump Crete - Belt Crete - Squeeze Crete - Screw Type Pumps and Gypsum (operator will clean); Creter Crane; Operation of Concrete Pump Truck; Formless Finishing Machines; Flaherty Spreader or Similar Types; Screed Man on Laydown Machine; Vermeer Concrete Saw; Operation of Laser Screed; Span Saw; Dredge Leverman; Dredge Engineer; Lull or Similar Type; Hydro-Boom Truck; Operation of Guard Rail Machine; and Starting Engineer on Pipeline or Construction (11 or more pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc, and Ground Heater (Trailer Mounted).

CLASS 2. Bulker & Pump; Power Launches; Boring Machine & Pipe Jacking Machine; Dinkys; Operation of Carts, Powered Haul Unit for a Boring Machine; P & H One Pass Soil Cement Machines and Similar Types; Wheel Tractors (Industry or Farm Type - Other); Back Fillers; Euclid Loader; Fork Lifts; Jeep w/Ditching Machine or Other Attachments; Tunneluger; Automatic Cement & Gravel Batching Plants; Mobile Drills - Soil Testing and Similar Types; Pugmill with Pump; All (1) and (2) Drum Hoists; Dewatering System; Straw Blower; Hydro-Seeder; Bump Grinders (self-propelled); Assistant Heavy Equipment Greaser; Apsco Spreader; Tractors (Track-Type) without Power Units Pulling Rollers; Rollers on Asphalt - Brick or Macadam; Concrete Breakers; Concrete Spreaders; Cement Strippers; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Vibro-Tampers (All Similar Types Self-Propelled); Mechanical Bull Floats; Self-Propelled Concrete Saws; Truck Mounted Power Saws; Operation of Curb Cutters; Mixers - Over Three (3) Bags; Winch and Boom Trucks; Tractor Pulling Power Blade or Elevating Grader; Porter Rex Rail; Clary Screed; Mule Pulling Rollers; Pugmill without Pump; Barber Greene or Similar Loaders; Track Type Tractor w/Power Unit attached (minimum); Fireman; Spray Machine on Paving; Curb Machines; Paved Ditch Machine; Power Broom; Self-Propelled Sweepers; Self-Propelled Conveyors; Power Subgrader; Oil Distributor; Straight Tractor; Truck Crane Oiler; Truck Type Oilers; Directional Boring Machine; Horizontal Directional Drill; Articulating End Dump Vehicles; Starting Engineer on Pipeline or Construction (6 -10 pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted).

CLASS 3. Straight Framed Truck Mounted Vac Unit (separately powered); Trac Air Machine (without attachments); Rollers - Five Ton and Under on Earth and Gravel; Form Graders; Bulk Cement Plant; Oilers; and

Starting Engineer on Pipeline or Construction (3 - 5 pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted).

#### 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.

## SAMPLE ADDENDUM

Peoria Park District  
Planning, Design and Construction Department  
1314 N. Park Road  
Peoria, IL 61604  
Telephone: (309) 686-3386

ADDENDUM NO. \_\_\_\_\_

PROJECT TITLE: \_\_\_\_\_

ISSUANCE DATE: \_\_\_\_\_

LOCATION: \_\_\_\_\_

The proposed Contract Documents for this Work are modified as follows:

- I. **DRAWINGS**: (Delete/Change/Modify/Etc.)
  
- II. **PROJECT MANUAL/SPECIFICATIONS/GENERAL CONDITIONS/ETC.:**  
(Delete/Change/Modify/Etc.)
  
- III. **INVITATION TO BID**: (Delete/Change/Modify/Etc.)

END OF ADDENDUM NO. \_\_\_\_\_

(Addendum may be bound into Project Manual, attached to front cover, faxed, mailed or delivered to bidders.)

Addendum No. \_\_\_\_\_  
Page 1 of 1





**Pleasure Driveway and Park District of Peoria, Illinois**  
**Sample Agreement Between Owner and Contractor**

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This **AGREEMENT** for

DETWEILLER PARK EROSION CONTROL

is made as of the \_\_\_\_\_ day of \_\_\_\_\_ in the year of Two Thousand Fifteen (2015)

**Between the Owner:**

PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA, ILLINOIS  
1125 W. LAKE AVENUE  
PEORIA, IL 61614

**And the Contractor:**

PLANNING, DESIGN AND CONSTRUCTION DEPARTMENT  
1314 N. PARK ROAD  
PEORIA, IL 61604

**The Owner's Representative is:**

**The Architect or Engineer is:**

INFRASTRUCTURE ENGINEERING, INC.  
456 FULTON, SUITE 104  
PEORIA, IL 61602

The Owner and Contractor agree as follows:

**I. THE CONTRACT DOCUMENTS.** The Contract Documents consist of this AGREEMENT, the Plans/Drawings for the Project dated July 31, 2015, all sections of the Project Manual dated August 4, 2015, including but not limited to the Instructions and Supplementary Instructions to Bidders, the Bid Form, the General Conditions (1997 AIA Document A201) and Supplementary General Conditions, the General Requirements, the Specifications, and other documents as enumerated in Section 10 and Attachment #1 of this AGREEMENT, and including addenda issued prior to the execution of this AGREEMENT. The Contract Documents form the CONTRACT between the Owner and the Contractor. The CONTRACT represents the entire and integrated contract for the construction of the Work of the Project between the parties hereto and supersedes prior proposals, contracts, negotiations, or representations, either written or oral.

**II. THE WORK OF THE CONTRACT.** The Contractor shall execute the entire Work described in the Contract Documents, unless modified in Section XI of this AGREEMENT.

**III. BASIS OF PAYMENT.** The Work of the CONTRACT shall be performed on a Lump Sum basis.

**IV. CONTRACT SUM.** The Owner shall pay the Contractor the sum of

--

(and incorporates the acceptance of bid alternates as defined in sub-paragraph "A", below) for the Contractor's performance of the Work required by the Contract Documents, subject to modifications made by Owner approved Change Orders. If this CONTRACT calls for a unit price basis of payment, the contract sum stated above shall be adjusted by Change Order based upon multiplying the unit prices submitted by the Contractor on the Bid Form (and included herein as an Attachment to this CONTRACT) times (x) the actual quantities installed.

**A. ACCEPTANCE OF ALTERNATES.** The contract sum stated above is based on the acceptance of the following alternates, which are described in the Project Manual:

<u>ITEM</u>	<u>ADD</u>	<u>DEDUCT</u>

**V. DATES OF COMMENCEMENT AND COMPLETION OF THE WORK.** The Owner's Representative will issue a written Notice to Proceed with the Work of the Project after receiving the required Performance Bond, Labor and Material Payment Bond, and Certificate of Insurance (in proper form and providing the required coverages and amounts from a company [or companies] acceptable to the Owner, and naming the Owner as an Additional Insured), and any other pre-construction submittals required by the Contract Documents. The Contractor hereby acknowledges and agrees that failure to provide such submittals in a timely manner shall not be cause to adjust the date(s) for completion of the Work.

- A. LIQUIDATED DAMAGES.** Owner and Contractor recognize that time is of the essence of this CONTRACT and that Owner will suffer financial loss if the Contractor has not achieved Substantial Completion and Final Completion of the Work within the time specified below, plus any extensions thereof allowed in accordance with Article 8 of the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time.
- B. SUBSTANTIAL COMPLETION.** Accordingly, instead of requiring any such proof, Owner and Contractor agree that as Liquidated Damages for delay (but not as a penalty), Contractor shall pay Owner TWO HUNDRED FIFTY dollars (\$250.00) for each calendar day that expires after SEVENTY (70) calendar days from Notice of Award until Substantial Completion is attained. The work is tentatively scheduled to begin on August 27, 2015 and be at Substantial Completion by November 5, 2015.
- C. FINAL COMPLETION.** After Substantial Completion if Contractor shall neglect, refuse, or fail to complete the remaining Work necessary to achieve Final Completion within TEN (10) calendar days or any proper extension thereof granted by Owner, Contractor shall pay Owner TWO HUNDRED FIFTY dollars (\$250.00) for each day that expires after the time specified.

**VI. PROGRESS PAYMENTS, REDUCTION OF RETAINAGE AND FINAL PAYMENT.**

- A.** Unless otherwise specified elsewhere in the Contract Documents, the Contractor may submit monthly applications for progress payments ("Application for Payment") to the Owner's Representative. Each Application for Payment must be certified by the Architect or Engineer (if applicable), or the Owner's Representative if an Architect or Engineer has not been engaged for construction phase services. An Application for Payment shall be for a period of no less than one calendar month ending on the last day of the month, unless otherwise approved in writing by the Owner's Representative. Application forms shall be subject to Owner's approval. Each Application for Payment shall be based upon the Schedule of Values submitted by the Contractor, in accordance with the Contract Documents. The Schedule of Values shall be approved by the Owner's Representative and the Architect or Engineer (if applicable) in advance of the Contractor's first Application for Payment and the approved schedule shall be used by the Contractor as the basis for submitting payment requests. The Owner's Representative and/or

Architect/Engineer's (if applicable) approval of the Schedule of Values shall not constitute a complete check for accuracy, and shall not relieve the Contractor from responsibility for errors of any sort.

- B. An Application for Payment (certified by the Architect or Engineer, if applicable) shall be submitted to the Owner's Representative no later than the fifth (5th) day of the month following the period for which the application is being submitted. In such case, the Owner shall make the progress payment to the Contractor not later than the twentieth day of the next month. A progress payment request on an Application for Payment (certified by the Architect or Engineer, if applicable) received by the Owner's Representative after the fifth (5th) day of a month shall be made by the Owner not later than forty-five days after receipt by the Owner's Representative.
- C. Based upon its review of the certified (by the Architect or Engineer, if applicable) Application for Payment, the Owner shall make a progress payment to the Contractor in such amount as the Owner reasonably determines is properly due, subject to a retainage of ten percent (10%) of the value of the Work completed and covered by the Application for Payment, less the aggregate of previous payments in each case. In determining the amount properly due, the Owner shall consider the value of labor, materials and equipment incorporated in the Work, or properly allocable to materials and equipment suitably stored at the site or at some other location previously agreed upon in writing by the parties. The Owner's Representative shall have the sole right to determine that materials or equipment stored off-site have been properly delivered, protected, and/or secured. The Owner's Representative (or the Architect or Engineer, if applicable) may nullify or withhold a Certificate of Payment, in whole or in part, for the reasons set forth in Section 9.5 of the General Conditions. Upon Substantial Completion of the Work, the Owner shall pay the Contractor a sum sufficient to increase the total payments to ninety-five percent (95%) of the Contract Sum, less such amounts as the Owner's Representative shall determine for incomplete work and unsettled claims.

**VII.** Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner when **1)** the Contract has been fully performed by the Contractor except for the Contractor's responsibility to correct nonconforming Work as provided in Subparagraph 12.2.2 of the General Conditions and to satisfy other requirements, if any, which necessarily survive final payment; and **2)** a final Certificate of Payment has been issued by the Architect/Engineer or Owner's Representative; such final payment shall be made by the Owner not more than forty-five (45) days after the receipt of the final Certificate of Payment by the Owner.

**VIII. CHANGE ORDERS.** The Owner and Contractor agree that changes in the Work are sometimes required and necessary, and that timely: **a)** submission of proposed changes in the Work or the scope of Work by the Owner, **b)** pricing by the Contractor, **c)** review by the Owner's Representative and/or Architect/Engineer, and **d)** final approval by the Owner are necessary in order to assure that the Work of the Project is completed on schedule. The Contractor hereby acknowledges and agrees that an increase in the scope of the Work does not grant or imply an increase in the Contract Time, unless specifically so stated on the final approved Change Order. The Contractor also agrees that any and all Work which deviates from the plans and specifications and/or results in additional Work performed by Contractor's forces, including those of his sub-contractor's, will not result in additional expense to the Owner, unless **finally approved both by the Owner and the Architect/Engineer (if applicable) prior to the additional Work being performed.** No claim for an addition to the Contract Sum shall be valid unless approved by a written Change Order signed by the Owner and the architect/engineer (if applicable) **prior to the additional Work being performed.**

**IX. TERMINATION OR SUSPENSION.** The CONTRACT may be terminated by the Owner or the Contractor as provided by Article 14 of the General Conditions. The Work may be suspended by the Owner as provided in Article 14 of the General Conditions.

**X. ENUMERATION OF CONTRACT DOCUMENTS.** The Contract Documents, except for modifications issued after the execution of this Agreement, consist of:

- A. this Standard Form of Agreement Between Owner and Contractor, of the Pleasure Driveway and Park District of Peoria, Illinois.
- B. the Plans or Drawings titled DETWEILLER PARK EROSION, dated July 31, 2015, and enumerated in ATTACHMENT #1 - "LIST OF DRAWINGS".
- C. Supplementary and other Conditions of the CONTRACT, and the Specifications, are those found in the Project Manual titled "DETWEILLER PARK EROSION CONTROL", and dated AUGUST 4, 2015 enumerated as follows:
  - 1) Supplementary Instructions to Bidders
  - 2) Contractor's Proposal, as accepted by the Owner
  - 3) General Conditions of the Contract for Construction, AIA Document A201, 1997 Edition
  - 4) Supplementary General Conditions
  - 5) Major Subcontractor List
  - 6) Directory of Minority & Women Owned Business Enterprises
  - 7) Illinois Drug Free Workplace Certification
  - 8) Contractor Certification (Individual or Corporate/Partnership)
  - 9) Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors
  - 10) Workforce Profile
  - 11) Performance Bond
  - 12) Labor and Material Payment Bond
  - 13) Proof of Insurance
  - 14) Specifications: Division 010000, "General Requirements"; Divisions 020000-350000 as applicable
  - 15) Attachment A.6 - Insurance Requirements
  - 16) Certificate of Safety Compliance
  - 17) Peoria Park District Weekly Workforce Report
  - 18) Certified Payroll Form
  - 19) Substance Abuse Prevention Program Certification

**XI. MISCELLANEOUS PROVISIONS.** Other Provisions of this Agreement are as follows:

This AGREEMENT is entered into as of the day and year first written above and is executed in at least three original copies of which one is to be delivered to the Contractor, one to the Architect/Engineer (if any) for use in the administration of the CONTRACT, and one to the Owner.

**OWNER:**

**CONTRACTOR :**

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
TIMOTHY J. CASSIDY, Park Board President

\_\_\_\_\_  
(Printed Name and Title)

ATTEST:

ATTEST:

## ATTACHMENT #1 - LIST OF DRAWINGS

<u>Number</u>	<u>Title</u>	<u>Date</u>
<b>C-001</b>	<b>Cover Sheet</b>	<b>7/31/15</b>
<b>C-002</b>	<b>General Notes</b>	<b>7/31/15</b>
<b>C-003</b>	<b>Existing/Proposed Drainage Exhibit</b>	<b>7/31/15</b>
<b>C-101</b>	<b>Erosion &amp; Sediment Control Plan</b>	<b>7/31/15</b>
<b>C-102</b>	<b>Demolition Plan</b>	<b>7/31/15</b>
<b>C-103</b>	<b>Grading &amp; Paving Plan</b>	<b>7/31/15</b>
<b>C-104</b>	<b>Grading Plan</b>	<b>7/31/15</b>
<b>C-105</b>	<b>Cross Sections</b>	<b>7/31/15</b>
<b>C-501</b>	<b>Details</b>	<b>7/31/15</b>

## PERFORMANCE BOND

**TO: PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA  
PEORIA, ILLINOIS**

**KNOW ALL MEN BY THEIR PRESENTS;**

That \_\_\_\_\_  
as Principal, and \_\_\_\_\_ as  
corporation of the State of \_\_\_\_\_, as Surety, are held and firmly bound unto the  
PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA, PEORIA, ILLINOIS, as Oblige, in the amount of \_\_\_\_\_  
(\$ \_\_\_\_\_), for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators,  
successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated \_\_\_\_\_, 20 \_\_\_\_\_ entered into a contract  
with Oblige for \_\_\_\_\_  
in accordance with contract documents prepared by the Architect-Engineer, which Contract is by reference made a part hereof and  
is hereinafter referred to as "the Contract".

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if Principal shall promptly and faithfully  
perform the Contract and all changes thereof, and during the life of any guaranty or warranty required under the Contract, and, if  
Principal shall fully secure and protect the Oblige from all liability and from all loss or expense of any kind, including all court  
costs, engineering fees and attorneys' fees made necessary or arising from the failure, refusal or neglect of Principal to comply  
with all obligations assumed by Principal in connection with the performance of the Contract and all changes thereof, then this  
obligation shall be null and void; otherwise it shall remain in full force and effect.

Surety hereby waives notice of any changes in the Contract, including extensions of time for the performance thereof. Whenever  
Principal shall be and is declared to be in default under the Contract, Oblige having performed Oblige's obligations thereunder,  
Surety shall, after notice of such default, reserve all rights against all parties, take over and complete the Contract and become  
entitled to payment of the balance of any monies due or to become due to such defined Principal in accordance with the progress  
of the work.

A condition of this Bond is that the Principal shall faithfully perform in accordance with the prevailing wage clause provided in  
the bid specification or Contract pursuant to Illinois Compiled Statutes 820 ILCS 130/1 *et. seq.*

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Oblige named  
herein.

Signed and Sealed this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

**CONTRACTOR**

\_\_\_\_\_  
Contractor Firm Name

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

**SURETY**

\_\_\_\_\_  
Surety Name

By: \_\_\_\_\_  
Attorney-in-Fact

\_\_\_\_\_  
Resident Agent

ATTEST:

\_\_\_\_\_  
Corporate Secretary (Corporations only)



## LABOR & MATERIAL PAYMENT BOND

**TO: PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA  
PEORIA, ILLINOIS**

**KNOW ALL MEN BY THESE PRESENTS:**

That: \_\_\_\_\_

as Principal, and \_\_\_\_\_

\_\_\_\_\_ a corporation of the State of \_\_\_\_\_ as Surety, are held and firmly bound unto the PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA, PEORIA, ILLINOIS, as Obligee, for the use and benefit of claimants as hereinafter defined in the amount of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated \_\_\_\_\_, 20 \_\_\_\_\_, entered into a Contract with Obligee for \_\_\_\_\_

\_\_\_\_\_ in accordance with contract documents prepared by the Architect-Engineer which Contract is by reference made a part hereof, and is hereinafter referred to as "the Contract".

**NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION** is such that if Principal shall promptly pay for all laborers, workers and mechanics engaged in the work under the Contract, and not less than the general prevailing rate of hourly wages of a similar character in the locality in which the work is performed, as determined by the State of Illinois Department of Labor pursuant to the Illinois Compiled Statutes 820 ILCS 130/1 et. seq. and for all material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

1. A claimant is defined as any person, firm, or corporation having contracts with the Principal or with any of Principal's subcontractors for labor or materials furnished in the performance of the Contract on account of which this Bond is given.

2. Nothing in this Bond contained shall be taken to make the Obligee liable to any subcontractor, materialman or laborer, or to any other person to any greater extent than it would have been liable prior to the enactment of The Public Construction Bond Act, approved June 20, 1931, as amended; provided further, that any person having a claim for labor and materials furnished in the performance of the Contract shall have no right of action unless he shall have filed a verified notice of such claim with the Obligee within 180 days after the date of the last item of work or the furnishing of the last item of materials, which claim shall have been verified and shall contain the name and address of the claimant, the business address of the claimant within the State of Illinois, if any, or if the claimant be a foreign corporation having no place of business within the State the principal place of business of the corporation, and in all cases of partnership the names and residences of each of the partners, the name of the Contractor for the Obligee, the name of the person, firm or corporation by whom the claimant was employed or to whom such claimant furnished materials, the amount of the claim and a brief description of the public improvement for the construction or installation of which the Contract is to be performed. No defect in the notice herein provided for shall deprive the claimant of its right of action under the terms and provisions of this Bond unless it shall affirmatively appear that such defect has prejudiced the rights of an interested party asserting the same.

3. No action shall be brought on this Bond until the expiration of 120 days after the date of the last item of work or of the furnishing of the last item of material except in cases where the final settlement between the Obligee and the Contractor shall have been made prior to the expiration of the 120 day period, in which case action may be taken immediately following such final settlement; nor shall any action of any kind be brought later than 6 months after the acceptance by the Obligee of the work. Such suit shall be brought only in the circuit court of this State in the judicial district in which the Contract is to be performed.

4. Surety hereby waives notice of any changes in the Contract, including extensions of time for the performance thereof.

5. The amount of this Bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder.

6. The Principal and Surety shall be liable for any attorneys fees, engineering costs, or court costs incurred by the Obligee relative to claims made against this Bond.

Signed and Sealed this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

**CONTRACTOR**

**SURETY**

Contractor Firm Name:

\_\_\_\_\_

\_\_\_\_\_

By: \_\_\_\_\_  
Signature

By: \_\_\_\_\_  
Attorney-in-Fact

\_\_\_\_\_  
Title

\_\_\_\_\_  
Resident Agent

ATTEST:

\_\_\_\_\_  
Corporate Secretary (Corporations only)

## CONTRACTOR'S AFFIDAVIT

STATE OF ILLINOIS   )  
  ) SS  
COUNTY OF PEORIA   )

TO WHOM IT MAY CONCERN:

THE undersigned, being duly sworn, deposes and says that he is \_\_\_\_\_  
\_\_\_\_\_ of the \_\_\_\_\_  
who is the contractor for the \_\_\_\_\_  
building located at \_\_\_\_\_  
owned by \_\_\_\_\_.

That the total amount of the contract including extras is \$\_\_\_\_\_ on which he has received payment of \$\_\_\_\_\_ prior to this payment. That all waivers are true, correct and genuine and delivered unconditionally and that there is no claim either legal or equitable to defeat the validity of said waivers. That the following are the names of all parties who have furnished material or labor, or both, for said work and all parties having contracts or sub-contracts for specific portions of said work or for material entering into the construction thereof and the amount due or to become due to each, and that the items mentioned include all labor and material required to complete said work according to plans and specifications:

NAMES	WHAT FOR	CONTRACT PRICE	AMOUNT PAID	THIS PMT.	BALANCE DUE
_____					
_____					
_____					
_____					
_____					
_____					

TOTAL ALL LABOR AND MATERIAL TO COMPLETE

There are no other contracts for said work outstanding, and that there is nothing due or to become due to any person for material, labor or other work of any kind done or to be done upon or in connection with said work other than above stated.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

Signature: \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Notary Public

**FINAL WAIVER OF LIEN**

STATE OF ILLINOIS    )  
                                  ) SS  
COUNTY OF PEORIA    )

TO WHOM IT MAY CONCERN:

WHEREAS, the undersigned \_\_\_\_\_ ha\_\_\_\_\_ been employed by THE  
PEORIA PARK DISTRICT to furnish material and labor for the \_\_\_\_\_  
at the premises commonly known as \_\_\_\_\_  
located in the City of \_\_\_\_\_, County of Peoria, State of Illinois.

The undersigned, for and in consideration of \_\_\_\_\_  
(\$ \_\_\_\_\_) Dollars, and other good and valuable considerations, the receipt whereof is hereby acknowledged,  
do\_\_\_\_\_ hereby waive and release any and all lien or claim or right of lien under the statutes of the State of Illinois relating to  
mechanics' liens, with respect to and on said above-described premises and improvements thereon and on the money, funds or  
other considerations due or become due from the owner on account of labor or services, material, fixtures, apparatus or machinery  
heretofore furnished or which may be furnished at any time hereafter by the undersigned for the above described premises.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_.

[Affix corporate seal here.]

\_\_\_\_\_  
(Name of sole owner, corporation or partnership)

ATTEST:

\_\_\_\_\_  
(Signature of secretary of corporation)

\_\_\_\_\_(SEAL)  
(Signature of sole owner or authorized  
representative of corporation or partnership)

**WAIVER OF LIEN**

**GENERAL CONTRACTOR'S PARTIAL  
TO COVER ONLY CERTAIN PAYMENTS**

STATE OF ILLINOIS    )  
                                  ) SS  
COUNTY OF PEORIA    )

TO ALL WHOM IT MAY CONCERN:

WHEREAS, the undersigned \_\_\_\_\_ has been employed  
by THE PEORIA PARK DISTRICT to furnish material and labor for the \_\_\_\_\_ at  
the premises commonly known as \_\_\_\_\_

\_\_\_\_\_ located in the City of Peoria, County of Peoria, and State of Illinois.

NOW, THEREFORE, the undersigned, for and in consideration of the sum of \_\_\_\_\_ Dollars, and other good and valuable considerations, the receipt whereof is hereby acknowledged by the undersigned, does hereby waive and release to the extent only of the aforesaid amount of \_\_\_\_\_ Dollars, paid simultaneously herewith, any and all lien or right or claim of lien under the statutes of the State of Illinois relating to mechanics' liens, with respect to and on said above-described premises, and the improvements thereon and on the money, funds, or other consideration due or to become due from the owner on account of labor, services, material, fixtures, apparatus or machinery, furnished by the undersigned, to or on account of the said owner, for the above-described premises, but only to the extent of the payment aforesaid.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

[Affix corporate seal here]

\_\_\_\_\_  
(Name of sole owner, corporation or partnership)

ATTEST:

\_\_\_\_\_  
(Signature of secretary of corporation)

\_\_\_\_\_  
(SEAL)  
(Signature of sole owner or authorized  
representative of corporation or partnership)

## **SUB-CONTRACTOR'S FINAL WAIVER OF LIEN**

[illegible]

TO WHOM IT MAY CONCERN:

WHEREAS, the undersigned \_\_\_\_\_  
(sub-contractor)  
has been employed by \_\_\_\_\_  
(general contractor)  
to furnish material and labor for the \_\_\_\_\_ at the  
premises commonly known as \_\_\_\_\_, in the City of \_\_\_\_\_,  
County of Peoria, State of Illinois.

The undersigned, for and in consideration of \_\_\_\_\_  
 \_\_\_\_\_ (\$ \_\_\_\_\_) Dollars, and other good and valuable considerations,  
 the receipt whereof is hereby acknowledged, do \_\_\_\_\_ hereby waive and release any and all lien or claim or right of lien under  
 the statutes of the State of Illinois relating to Mechanics Liens, on the above described premises and improvements thereon and on  
 the money, funds or other considerations due or become due from the owner on account of labor or services, material, fixtures,  
 apparatus or machinery heretofore furnished or which may be furnished at any time hereafter by the undersigned for the above  
 described premises.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

[Affix corporate seal here.]

ATTEST:\_\_\_\_\_

(Name of sole owner, corporation or partnership)

(Signature of sole owner or authorized  
representative of corporation or partnership)

\_\_\_\_\_(SEAL)  
(Signature of secretary of corporation)

**SUB-CONTRACTOR'S PARTIAL**  
**TO COVER ONLY CERTAIN PAYMENTS**

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# **PEORIA PARK DISTRICT**

## **Weekly Workforce Report**

### **Instructions**

This weekly workforce report must be completed and returned to the Peoria Park District project manager for each week that you are working on Peoria Park District property. You are to report only those employees that are actually working on the Peoria Park District project identified on this report. Do not report employees that are not working on the project identified on this report.

If you have further questions regarding this report, please contact the Owner's Project Manager.

#### **I. Trade and Hour Breakdown Table**

- List the different trades (carpenter, laborer, plumber, etc.) and report the number of hours by race/gender for each trade;
- Total the hours for each trade on the right.

#### **II. New Hires by Race and Gender**

- If additional employees are hired for the job, please record the number of employees hired by race/gender.

#### **III. Total Project Employee Breakdown**

- Please track total hours by race/gender for the project if project lasts longer than a week.



**Weekly Workforce Report (Peoria Park District Form) Date:\_\_\_\_\_ Week Ending: \_\_\_\_\_**

**Contractor/Subcontractor:\_\_\_\_\_ Project: \_\_\_\_\_**

**Trade & Hour Breakdown:**

TRADE	FEMALE HOURS	CAUCASIAN HOURS	AFRICAN- AMERICAN HOURS	HISPANIC HOURS	NATIVE AMERICAN HOURS	ASIAN, PAC. ISLANDER HOURS	TOTAL HOURS

**New Hires by Race & Gender**

TRADE	CAUCASIAN	AFRICAN- AMERICAN	HISPANIC	NATIVE AMERICAN	ASIAN, PACIFIC ISLANDER	MALE	FEMALE

**Total Project Employee Breakdown**

	CAUCASIAN	AFRICAN- AMERICAN	HISPANIC	NATIVE AMERICAN	ASIAN, PACIFIC ISLANDER	MALE	FEMALE

## ADDRESS

NAME, ADDRESS, TELEPHONE NUMBER  
AND SOCIAL SECURITY NUMBER  
OF EMPLOYEE

[illegible]

DATE \_\_\_\_\_

I, \_\_\_\_\_ (Name of Signatory Party) \_\_\_\_\_ (Title)

do hereby state:

(1) That I pay or supervise the payment of the persons employed by

\_\_\_\_\_ on the \_\_\_\_\_ (Contractor or Subcontractor) \_\_\_\_\_ that during the payroll period commencing on the \_\_\_\_\_ day of \_\_\_\_\_ and ending the \_\_\_\_\_ day of \_\_\_\_\_

all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said \_\_\_\_\_ from the full \_\_\_\_\_ (Contractor or Subcontractor)

weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions authorized by law.

(2) That any payroll otherwise under this contract required to be submitted for the above period are correct and complete; that the wages rates for laborers or mechanics contained therein are not less than the applicable wage rates mandated by the Illinois Prevailing Wage Act and that the classifications set forth therein for each laborer or mechanic conform with the work performed.

(3) \_\_\_\_\_ does remit/does not remit (circle correct statement) contributions to fringe benefit funds that are jointly maintained and jointly governed by one or more employers and one or more labor organizations in accordance with the Federal Labor Management Relations Act (LMRA).

(4) If \_\_\_\_\_ does not remit contributions to a fringe benefit fund that is jointly maintained and jointly governed by one or more employers and one or more labor organizations in accordance with the LMRA, but does remit contributions to a fringe benefit fund, the following information is required:

- (a) The worker's hourly fringe benefit rates: \_\_\_\_\_
- (b) The name and address of each fringe benefit fund: \_\_\_\_\_
- (c) The plan sponsor of each fringe benefit fund, if applicable: \_\_\_\_\_
- (d) The plan administrator of each fringe benefit fund, if applicable: \_\_\_\_\_

REMARKS:	
NAME AND TITLE	SIGNATURE
THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 5 (820 ILCS 1305) OF THE PREVAILING WAGE ACT OF THE STATE OF ILLINOIS.	

# Request for Taxpayer Identification Number and Certification

Give Form to the  
requester. Do not  
send to the IRS.

Print or type  
See Specific Instructions on page 2.

<b>1</b> Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.	
<b>2</b> Business name/disregarded entity name, if different from above	
<b>3</b> Check appropriate box for federal tax classification; check only <b>one</b> of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <b>Note.</b> For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶ _____	<b>4</b> Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>
<b>5</b> Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
<b>6</b> City, state, and ZIP code	
<b>7</b> List account number(s) here (optional)	

## Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

**Note.** If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

<b>Social security number</b>									
				-				-	
<b>or</b>									
<b>Employer identification number</b>									
				-					

## Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

<b>Sign Here</b>	Signature of U.S. person ▶	Date ▶
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## General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at [www.irs.gov/fw9](http://www.irs.gov/fw9).

## Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

*If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.*

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

**Note.** If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

**Foreign person.** If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

**Nonresident alien who becomes a resident alien.** Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

**Example.** Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

## Backup Withholding

**What is backup withholding?** Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

**Payments you receive will be subject to backup withholding if:**

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code* on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships* above.

## What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

## Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

## Penalties

**Failure to furnish TIN.** If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

**Civil penalty for false information with respect to withholding.** If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

**Criminal penalty for falsifying information.** Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

**Misuse of TINs.** If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

## Specific Instructions

### Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

**Note. ITIN applicant:** Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

**Line 2**

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

**Line 3**

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.

**Limited Liability Company (LLC).** If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 8832 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

**Line 4, Exemptions**

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

**Exempt payee code.**

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 <sup>1</sup>	Generally, exempt payees 1 through 5 <sup>2</sup>
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

<sup>1</sup> See Form 1099-MISC, Miscellaneous Income, and its instructions.

<sup>2</sup> However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

**Exemption from FATCA reporting code.** The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

**Note.** You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

**Line 5**

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

**Line 6**

Enter your city, state, and ZIP code.

**Part I. Taxpayer Identification Number (TIN)**

**Enter your TIN in the appropriate box.** If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

**Note.** See the chart on page 4 for further clarification of name and TIN combinations.

**How to get a TIN.** If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at [www.ssa.gov](http://www.ssa.gov). You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at [www.irs.gov/businesses](http://www.irs.gov/businesses) and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting [IRS.gov](http://IRS.gov) or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

**Note.** Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

**Caution:** A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.



## Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code* earlier.

**Signature requirements.** Complete the certification as indicated in items 1 through 5 below.

**1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.** You must give your correct TIN, but you do not have to sign the certification.

**2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.** You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

**3. Real estate transactions.** You must sign the certification. You may cross out item 2 of the certification.

**4. Other payments.** You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

**5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions.** You must give your correct TIN, but you do not have to sign the certification.

## What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account <sup>1</sup>
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor <sup>2</sup>
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee <sup>1</sup>  The actual owner <sup>1</sup>
5. Sole proprietorship or disregarded entity owned by an individual	The owner <sup>3</sup>
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity <sup>4</sup>
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

<sup>1</sup> List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

<sup>2</sup> Circle the minor's name and furnish the minor's SSN.

<sup>3</sup> You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

<sup>4</sup> List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 2.

\*Note. Grantor also must provide a Form W-9 to trustee of trust.

**Note.** If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

## Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

**Protect yourself from suspicious emails or phishing schemes.** Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to [phishing@irs.gov](mailto:phishing@irs.gov). You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: [spam@uce.gov](mailto:spam@uce.gov) or contact them at [www.ftc.gov/idtheft](http://www.ftc.gov/idtheft) or 1-877-IDTHEFT (1-877-438-4338).

Visit [IRS.gov](http://IRS.gov) to learn more about identity theft and how to reduce your risk.

## Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

*A complete copy of AIA Document A201, 1997 Edition, with Supplementary General Conditions incorporated, is available for review in the Peoria Park District's Planning, Design and Construction Office.*

## **SUPPLEMENTARY GENERAL CONDITIONS**

1. A. **"GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION"**, AIA Document A201, 1997 Edition, published by the American Institute of Architects, including revisions adopted before the date of the Project Manual, is hereby made part of these Specifications with same force and effect as though set forth in full.
  - B. The following modifies, changes, deletes from or adds to the General Conditions of the Contract for Construction (AIA Document A201, Fourteenth Edition, 1997). Where any Article of the General Conditions is modified or any Paragraph, Subparagraph or Clause thereof is modified or deleted by these Supplementary Conditions, the unaltered provisions of that Article, Paragraph, Subparagraph or Clause shall remain in effect.
  - C. Parenthesis ( ) indicates the appropriate section and Subparagraph of the General Conditions which each paragraph of the Supplementary General Conditions modifies or refers to.
2. **INSERT THE FOLLOWING PHRASE TO PARAGRAPH (1.1.1) AFTER THE WORDS "The Contract Documents consist of the Agreement Between Owner and Contractor (hereinafter the Agreement)":**

“the Contractor's Bid, the Advertisement for Bids, the Instructions to Bidders, sample forms and addenda relating to these,”

**DELETE THE LAST SENTENCE OF PARAGRAPH (1.1.1).**

3. **ADD THE FOLLOWING SENTENCES TO END OF PARAGRAPH (1.2.1):**

The Contractor shall notify the Owner's Representative immediately if discrepancies are discovered. Full-size or large-scale details or drawings shall govern small-scale drawings that the former are intended to amplify. Dimensions from drawings shall not be determined by scale or rule. Where the Drawings and Specifications conflict with each other or with themselves, the Owner's Representative (in consultation with the Architect, if any) will decide which conflicting requirement governs. Should discrepancies or doubt occur, Contractor shall not proceed with the Work without clarification from the Owner. Contractor shall request clarification in a reasonable time to avoid delays and increases in the Contract Sum.

**ADD THE FOLLOWING PARAGRAPHS TO SECTION (1.2):**

**1.2.4** If any item or material shown on the Drawings is omitted from the Specifications, or vice-versa (except when the Drawings and Specifications clearly exclude such omitted item), and when such item or material is clearly required to complete the detail shown or specified, the Contractor shall furnish and install such item or material of the type and quality established by the balance of the detail shown and specified at no increase to the Contract Sum.

**1.2.5** Where a typical or representative detail is shown on the Drawings, this detail shall constitute the standard for workmanship and materials throughout those parts of the Work.



**1.2.6** Any Summary of Work as outlined in the Specifications shall not be deemed to limit the work required by the Contract Documents. The Contractor and each Subcontractor shall be responsible for carefully examining all Drawings, including all details, plans, elevations, sections, schedules and diagrams for each particular type of work, and for coordinating the Work described in the Drawings, with the related Specifications. The Contractor shall also be responsible for determining the exact scope of work for each type of work per the Contract Documents and Contractor shall endeavor to check cross-references of work excluded from any division. The Contract Sum is deemed to be based on a complete installation. When additional details or instructions are clearly required to complete the work, the Contractor is deemed to have made an allowance in the Contract Sum for completion of such Work consistent with the local standard of care.

**1.2.7** The Drawings are intended to show the arrangement, design and extent of the Work and are schematic in nature. They are not to be scaled for roughing-in measurements or used as shop drawings.

**4. ADD THE FOLLOWING PARAGRAPH TO SECTION (1.5):**

**1.5.3** Neither any oral representation by or oral agreement with any officer, agent, or employee of Owner or Architect before execution of this Contract shall affect or modify any of the Contractor's rights or obligations hereunder. Contractor is not aware of any facts that make misleading or inaccurate in any material respect any information Owner or Architect has furnished to Contractor which would have a material adverse affect on the Contract Time or Contract Sum which Contractor has not advised Owner or Architect of, and if, during the course of the performance of the Work, Contractor learns of any such facts it will so advise Owner. Contractor shall not be entitled to any adjustments in the Contract Time or the Contract Sum as a consequence of Contractor's breach of the terms of this Subparagraph.

**5. IN PARAGRAPH (1.6.1) DELETE THE WORD "Architect" IN THE FOURTH SENTENCE AND REPLACE IT WITH THE WORD "Owner".**

**DELETE SENTENCES #7, #8, #9 STARTING WITH "The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are ...."**

**6. DELETE PARAGRAPH (2.2.3) IN ITS ENTIRETY.**

**7. ADD THE FOLLOWING SENTENCE AT THE END OF PARAGRAPH (2.3.1):**

"The Owner shall not be liable for any extra cost incurred by the Contractor by such an order."

**8. IN PARAGRAPH (2.4.1) DELETE THE SECOND TO LAST SENTENCE.**

**9. IN PARAGRAPH (3.2.1, 3.2.2 AND 3.2.3) AFTER THE WORD "Architect" ADD THE WORDS "and Owner".**

**10. ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.2):**

**3.2.4** Before starting any work, the Contractor shall examine work performed by others to which his work adjoins or is applied to and report to the Owner's Representative any conditions that will prevent the satisfactory accomplishment of his work. Failure to notify the Owner's Representative of deficiencies or faults in preceding work prior to commencing work shall constitute acceptance thereof and waiver of any claim of its unsuitability.

**11. ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.4):**

**3.4.4** Before ordering any material or doing any Work, the Contractor shall verify all measurements at the Project site and he shall be responsible for the correctness of same. No extra charge or compensation will be allowed to the Contractor on account of any difference between actual dimensions and the measurements shown on the Project Drawings.

**3.4.5** The Contractor shall carefully inspect all materials delivered on and to the Project site and reject defective materials without waiting for the Owner's Representative or other representative of Owner to observe the materials.

**12. ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.5):**

**3.5.2** The Contractor agrees to assign to the Owner any and all manufacturer's warranties relating to materials and equipment furnished as part of the Work and further agrees to perform the Work in such manner so as to preserve any and all such manufacturer's warranties subject to installation directives and other terms of the Contract Documents. The Contractor agrees to deliver to the Owner, upon final payment, such assignments along with or as part of a reference manual, in form and detail reasonably acceptable to Owner, showing all such warranties and guarantees provided by the Contractor and Subcontractors. Such warranties and guarantees shall commence no sooner than the date of purchase from the supplier.

**3.5.3** The warranty of Contractor provided in Paragraph 3.5 shall in no way limit or abridge the warranties of the suppliers of equipment and systems which are to comprise a portion of the Work, if they are broader, and all of such warranties shall be in form and substance as required by the Contract Documents. Contractor shall take no action or fail to act in any way which results in the termination or expiration of such third party warranties or which otherwise results in prejudice to the rights of the Owner under such warranties subject to installation directives and other terms of the Contract Documents. Contractor agrees to provide all notices required for the effectiveness of such warranties and shall include provisions in the contracts with the providers and manufacturers of such systems and equipment whereby Owner shall have a direct right of enforcement of such warranty obligations.

**13. IN PARAGRAPH (3.6.1), DELETE THE WORD "Sales".**

**ADD THE FOLLOWING AT THE END OF PARAGRAPH (3.6.1):**

The Peoria Park District is exempt from Federal, State and Local taxes. A certificate of exemption will be furnished upon request.

**14. IN PARAGRAPH (3.10.2) BEFORE THE WORD "Architect's" ADD THE WORDS "Owner's and".**

**IN PARAGRAPH (3.10.2) AFTER THE WORD "Architect" ADD THE WORDS "and Owner's Representative".**

**ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.10):**

**3.10.4** The construction schedule shall provide for the most expeditious and practicable execution of the Work. The Contractor shall also work closely with the Owner to confirm that the construction schedule accurately reflects the status of the Project. The Contractor's construction schedule shall be updated every month by the Contractor and submitted to the Owner.

- .1** Whenever it becomes apparent from the updated construction schedule that any substantial completion previously established by the construction schedule cannot be met, the Contractor shall, at the Owner's request, take any or all of the following actions with no increase to the Contract Sum or Contract Time (unless the delay is caused by an event set forth in paragraph 8.3 of these General Conditions thereby permitting adjustment of the Contract Sum and/or Contract Time under Paragraph 4.3.5 of these General Conditions):

- .1.1** Increase construction manpower to substantially return the Project to schedule;
- .1.2** Increase the number of working hours per shift, shifts per day or the amount of construction equipment or any combination of the foregoing which will substantially return the Project to schedule;
- .1.3** Reschedule activities to concurrently accomplish activities, to the maximum degree practicable, in the time required by the Contract Documents.

If the Contractor fails to take any of these actions Owner shall have the notice and other rights set forth in Paragraph 2.4.

**15. IN PARAGRAPH (4.1.1) DELETE THE FIRST SENTENCE AND SUBSTITUTE THE FOLLOWING:**

"The Architect, Owner's Representative, and Owner's Project Manager are defined in Paragraph C of "Section 01000 - General" of "Division 01000 - General Requirements".

**16. IN PARAGRAPH (4.2.1) DELETE THE WORDS "and will be an Owner's Representative".**

**17. IN PARAGRAPH (4.2.2) DELETE THE WORDS "as a representative of the Owner".**

**18. IN PARAGRAPH (4.2.4) IN THE FIRST SENTENCE SUBSTITUTE THE WORD "Architect" FOR THE WORD "Owner" AND SUBSTITUTE THE WORD "Owner" FOR THE WORD "Architect".**

**19. IN PARAGRAPH (4.2.5) DELETE THE WORD "Architect's" AND "Architect" AND SUBSTITUTE THE WORDS "Owner Representative's" AND "Owner Representative".**

**20. IN PARAGRAPH (4.2.6) IN THE SECOND SENTENCE AFTER THE WORDS "will have authority" INSERT THE WORDS "upon written authorization from the Owner".**

**21. IN PARAGRAPH (4.2.8) DELETE THE WORD "prepare" AND SUBSTITUTE THE WORDS "assist the Owner's Representative in preparing".**

**22. IN PARAGRAPH (4.2.9) DELETE THE WORD "Architect" AND SUBSTITUTE WORDS "Owner's Representative, assisted by the Architect".**

**23. IN PARAGRAPH (4.2.11) IN THE FIRST SENTENCE DELETE THE WORDS "and decide".**

**24. IN PARAGRAPH (4.2.12) IN THE FIRST SENTENCE DELETE THE WORD "and decisions".**

**IN PARAGRAPH (4.2.12) IN THE SECOND SENTENCE DELETE THE WORDS "and initial decisions" AND "or decisions".**

**25. ADD PARAGRAPH TO SECTION (4.2):**

**4.2.14** Notwithstanding any other provision of this Agreement to the contrary, the Architect shall have no authority to order or approve any material deviation from the Contract Documents, whether or not such deviation affects the Contract Sum or other Substantial Completion Date (as defined herein). In the event any such deviation is sought, prior written approval from the Owner's Representative and the Owner must be obtained. The Architect may decide quality issues and may approve non-material deviations from the Contract Documents.

- 26. IN PARAGRAPH (4.3.4) IN THE FOURTH SENTENCE DELETE THE WORD "decision" AND SUBSTITUTE THE WORD "recommendation".**

**IN PARAGRAPH (4.3.4) IN THE LAST SENTENCE DELETE THE WORD "determination" AND SUBSTITUTE THE WORD "recommendation".**

- 27. DELETE PARAGRAPH (4.3.10) IN ITS ENTIRETY.**

- 28. DELETE PARAGRAPH (4.4.1) AND SUBSTITUTE THE FOLLOWING:**

"Claims, disputes and other matters in question between the Contractor and the Owner relating to the execution or progress of the Work or the interpretation of the Contract Documents shall be initially referred in writing to the Architect for a recommendation."

- 29. IN PARAGRAPH (4.4.2) AFTER "(2)" ADD THE WORD "recommend" AND CHANGE THE WORD "reject" TO "rejecting".**

**IN PARAGRAPH (4.4.2) AFTER "(3)" ADD THE WORD "recommend" AND CHANGE THE WORD "approve" TO "approving".**

**IN PARAGRAPH (4.4.2) AT THE END OF THE SENTENCE DELETE THE WORD "resolve" AND ADD THE WORDS "make recommendation on".**

- 30. IN PARAGRAPH (4.4.3) DELETE THE WORD "decision" AND SUBSTITUTE THE WORD "recommendation".**

- 31. IN PARAGRAPH (4.4.4) IN THE LAST SENTENCE DELETE THE WORDS "either reject or approve the Claim" AND SUBSTITUTE THE WORDS "provide a recommendation regarding the Claim in accordance with Paragraph 4.2.2".**

**IN PARAGRAPH (4.4.4) AT THE END OF THE LAST SENTENCE DELETE THE WORDS "in whole or in part."**

- 32. DELETE PARAGRAPHS (4.4.5) AND (4.4.6) IN THEIR ENTIRETY.**

- 33. IN PARAGRAPH (4.4.8) DELETE THE WORD "resolution" AND SUBSTITUTE THE WORDS "final recommendation".**

**IN PARAGRAPH (4.4.8) AFTER THE WORD "Architect," ADD THE WORD "or".**

**IN PARAGRAPH (4.4.8) AT THE END OF THE SENTENCE DELETE THE WORDS "or by arbitration".**

- 34. IN PARAGRAPH (4.5.1) DELETE THE WORD "decision" AND SUBSTITUTE THE WORD "recommendation".**

**IN PARAGRAPH (4.5.1) DELETE THE WORDS "arbitration or".**

**35. IN PARAGRAPH (4.5.2) IN THE SECOND SENTENCE DELETE THE WORDS “a demand for arbitration” AND SUBSTITUTE THE WORDS “legal or equitable proceedings”.**

**IN PARAGRAPH (4.5.2) AFTER THE WORDS “proceed in advance of “ DELETE THE WORDS “arbitration or”.**

**36. IN PARAGRAPH (4.5.3) DELETE THE FIRST SENTENCE.**

**37. DELETE SECTION (4.6) IN ITS ENTIRETY.**

**38. IN PARAGRAPH (5.2.1) DELETE THE FIRST SENTENCE AND SUBSTITUTE:**

“The subcontractors/suppliers listed by the Contractor on the Major Subcontractor/Supplier List (submitted with the Bid) shall not be changed without the written consent of the Owner.”

**IN PARAGRAPH (5.2.1) IN THE SECOND SENTENCE DELETE THE WORDS “Architect will” AND SUBSTITUTE THE WORDS “Owner’s Representative will”.**

**IN PARAGRAPH (5.2.1) IN THE SECOND SENTENCE AFTER THE WORDS “promptly reply to” ADD THE WORDS “any request made by”.**

**IN PARAGRAPH (5.2.1) IN THE SECOND SENTENCE AFTER THE WORDS “any such proposed” ADD THE WORDS “change in”.**

**IN PARAGRAPH (5.2.1) IN THE LAST SENTENCE DELETE THE WORDS “Owner or Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**

**IN PARAGRAPH (5.2.1) IN THE LAST SENTENCE DELETE THE WORD “promptly” AND ADD THE WORDS “within 10 calendar days (of receipt of written request for such change from the Contractor)”.**

**39. IN PARAGRAPH (6.2.2) BEFORE THE WORD “Architect” ADD THE WORDS “Owner and”.**

**40. IN PARAGRAPH (6.3.1) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORD “Owner”.**

**41. IN PARAGRAPH (7.2.1) DELETE THE WORDS “the Architect” AND SUBSTITUTE THE WORDS “the Owner’s Representative”.**

**ADD THE FOLLOWING PARAGRAPHS TO SECTION (7.2):**

**7.2.3** A Change Order shall include all of the Contractor’s costs associated therewith.

**7.2.4** The Contractor shall not accept any request for a Change Order from any person other than the Owner and may not perform any work asserted to constitute a change in the Work until the Owner has approved the Change Order in writing, unless the Owner authorizes the Contractor, in writing, to proceed with a change prior to the Owner's final approval. Notwithstanding anything to the contrary herein, the Contractor shall not charge for overtime services in the performance of any Change Order Work, unless the Owner has specifically authorized overtime in writing. Owner may competitively bid changes in the Work and Contractor, Subcontractor and suppliers shall provide Owner with all documents Owner requests to facilitate such competitive bidding of changes in the Work.

**7.2.5** There shall be no change in the Work, whether an alteration or addition to the Contract Sum or to any amounts due under the Contract Documents or to a change in the Contract Time, unless and until such alteration or addition has been authorized by a written Change Order executed and issued in accordance and compliance with the requirements with this Article 7 or by written authorization to proceed with such change in the Work signed by the Owner or as otherwise provided pursuant to the Contract Documents. The requirements set forth in this Paragraph 7.2.5 are of the essence. No claim that the Owner has been unjustly enriched by any alteration or addition to the Work, whether or not any such unjust enrichment to the Work or to the Owner in fact exists, shall form the basis of any claim for an increase in any amount due under the Contract Documents or a change in the Contract Time, and the terms of a fully-executed Change Order shall be conclusive.

- 42. IN PARAGRAPH (7.3.1) DELETE THE WORDS "the Architect" AND SUBSTITUTE THE WORDS "the Owner's Representative".**
- 43. IN PARAGRAPH (7.3.4) DELETE THE WORDS "the Architect" AND SUBSTITUTE THE WORDS "the Owner's Representative".**
- 44. IN PARAGRAPH (7.3.6) IN THE FIRST SENTENCE DELETE THE WORD "determined" AND SUBSTITUTE THE WORD "recommended".**
- 45. IN PARAGRAPH (7.3.7) IN THE FIRST SENTENCE AFTER THE WORD "Architect" ADD THE WORDS "and the Owner's Representative".**
- 46. IN PARAGRAPH (7.3.8) DELETE THE WORDS "the Architect" AND SUBSTITUTE THE WORDS "the Owner's Representative".**
- 47. IN PARAGRAPH (7.3.9) DELETE THE WORD "determination" AND SUBSTITUTE THE WORD "recommendation".**
- 48. IN PARAGRAPH (8.1.3) DELETE THE WORD "Architect" AND SUBSTITUTE THE WORDS "Owner's Representative".**
- 49. ADD THE FOLLOWING PARAGRAPHS TO SECTION (8.2) .**

**8.2.4** All work shall be "Substantially Complete" as required by the **Instructions to Bidders** and the **Agreement Between Owner and Contractor**.

**8.2.5** It is further agreed that said completion schedule is reasonable, and the Contractor shall prosecute said work regularly, diligently and continuously at such rate of progress as will insure full completion thereof within the time specified.

**8.2.6** Provided, however, the following exceptions:

- .1** Any preference, priority or allocation order duly issued by the United States Government.
- .2** Any unforeseeable cause beyond the control and without the fault or negligence of the Contractor, including acts of God, or of a public enemy, acts of the Owner, acts of another Contractor in performance of a separate contract with the Owner, fire, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather. The criteria on which the unusually severe weather shall be based is the average precipitation/temperatures received in the project area, as recorded over a period of the last five (5) years at the local area United States Weather Station. Any extension of time due to unusually severe weather must be requested by the Contractor on the basis of documented records of the actual precipitation/temperatures during the contract time period, compared with the normal/average for the area. Also, the criteria shall include the number of excessive precipitation or extreme cold days (i.e., days in which the temperature would adversely affect the type of work being constructed) over the same period and whether or not the Contractor's force worked on said days or stage of construction was affected.
- .3** Any delays of subcontractors occasioned by any of the causes specified in this paragraph.

**8.2.7** Provided further that the Contractor shall, within seven (7) days from the beginning of any such delay during the performance of the Contract, notify the Owner's Representative in writing of the alleged cause of such delay.

**50. IN PARAGRAPH (8.3.1) DELETE THE WORDS “and arbitration”.**

**IN PARAGRAPH (8.3.1) DELETE THE WORD “determine” AND SUBSTITUTE THE WORD “recommend”.**

**51. DELETE PARAGRAPH (9.2.1) AND SUBSTITUTE THE FOLLOWING:**

“Before the first Application for Payment, the Contractor shall submit to the Owner’s Representative a schedule of values allocated to various portions of the Work, prepared in such form and supported by such data to substantiate its accuracy as the Architect and Owner’s Representative may require. This schedule, unless objected to by the Architect and Owner’s Representative, shall be used as a basis for reviewing the Contractor’s Applications for Payment.”

**52. IN THE FIRST SENTENCE OF (9.3.1), CHANGE "ten" TO "forty five”.**

**IN PARAGRAPH (9.3.1) IN THE FIRST SENTENCE DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**

**ADD THE FOLLOWING TO THE END OF PARAGRAPH (9.3.1):**

Payment requests shall consist of AIA Documents #702 "Application and Certificate for Payment"; AIA #703 "Continuation Sheet"; Contractors Affidavit of Payment to Subcontractors and Suppliers; Weekly Workforce Reports; Certified Payroll Form; and Waivers of Lien. (Waivers of Lien are required from the general contractor in the full amount of the current payment application, and from all subcontractors, suppliers, or workers who provide more than \$10,000 of project material/labor of the Work. The waiver shall be in the amount(s) listed in the Contractor's Affidavit.) For final payment, the general contractor shall also provide a Waiver of Lien in the full amount of the contract price.

**The Waiver of Lien and Contractor Affidavit forms used shall be the Peoria Park District's standard form(s):** 1) "Final Waiver of Lien" (for general contractors), 2) "Waiver of Lien - General Contractor's Partial To Cover Only Certain Payments", 3) "Sub-Contractor's Final Waiver of Lien", 4) "Waiver of Lien - Sub-Contractor's Partial To Cover Only Certain Payments, and 5) "Contractor's Affidavit". (These forms are included in the Project Manual, and are the required Waiver of Lien forms for the project.)

(If the Contractor is unable to provide the required sub-contractor waiver at the time the application for payment is submitted (preferred method) alternatively, it may be provided at the time that payment is delivered by the District. If the sub-contractor waiver(s) still cannot be provided at that time, the District will provide "two-party" checks in which the Contractor and the sub-contractor are named jointly as payees.)

Format of AIA #703 shall follow that of "Schedule of Values". (See Division 01000 Article IV.) All payment requests shall reflect retainage in the amount of 10% of completed work.

**53. IN PARAGRAPH (9.3.1.1) DELETE THE WORDS “or by interim determination of the Architect, but not yet included in Change Orders”.**

**54. ADD THE FOLLOWING SUB-PARAGRAPHS TO PARAGRAPH (9.3.1):**

**9.3.1.3** Upon Substantial Completion, the Owner will pay 95% percent of the amount due to the Contractor on account.

**9.3.1.4** Monthly progress payments will be made by the Owner on projects lasting more than sixty days (from award of the bid to the Substantial Completion date given in the Supplementary Instructions to Bidders).

**55. ADD THE FOLLOWING SUB-PARAGRAPHS TO PARAGRAPH (9.3.2):**

**9.3.2.1** Material stored on site will be considered for payment only when a Schedule of Stored Materials with appropriate values accompany the payment request as an attachment.

**9.3.2.2** All material and work covered by partial payments made shall thereupon become the sole property of the Owner, but this provision shall not be construed as relieving the Contractor from the sole responsibility for the care and protection of material and work upon which payments have been made or the restoration of any damaged work, or as a waiver of the contract.

**56. IN PARAGRAPH (9.4.1) DELETE THE WORDS “Architect” AND “Architect’s” AND SUBSTITUTE THE WORDS “Owner’s Representative” AND “Owner’s Representative’s”.**

**IN PARAGRAPH (9.4.1) DELETE THE PHRASE "with a copy to the Contractor".**

**57. IN THE FIRST SENTENCE OF PARAGRAPH (9.4.2) DELETE THE WORD “Architect”.**

**IN THE FIRST SENTENCE OF PARAGRAPH (9.4.2) AFTER THE WORDS “Architect’s” ADD THE WORDS “and Owner’s Representative’s”.**

**IN THE FOURTH SENTENCE OF PARAGRAPH (9.4.2) DELETE THE WORDS “Architect has” AND SUBSTITUTE THE WORDS “Owner’s Representative and Architect have”.**



- 58. IN PARAGRAPH (9.5.1) DELETE THE WORDS “Architect” AND “Architect’s” AND SUBSTITUTE THE WORDS “Owner’s Representative AND “Owner’s Representative’s”.**
- 59. IN PARAGRAPHS (9.6.1, 9.6.3, AND 9.6.4) DELETE THE WORDS “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**
- 60. IN PARAGRAPH (9.7.1) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**
- IN PARAGRAPH (9.7.1) DELETE THE WORDS “or awarded by arbitration”.**
- 61. IN PARAGRAPH (9.8.2) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**
- 62. IN THE FIRST SENTENCE OF PARAGRAPH (9.8.3) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative assisted by the Architect”.**
- IN THE SECOND AND THIRD SENTENCES OF PARAGRAPH (9.8.3) DELETE THE WORDS “Architect’s” and “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative’s” and “Owner’s Representative”.**
- 63. IN PARAGRAPH (9.8.4) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**
- 64. IN PARAGRAPH (9.9.1) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**
- 65. IN PARAGRAPH (9.10.1) IN THE FIRST SENTENCE AFTER THE FIRST TWO APPEARANCES OF THE WORD ‘Architect’ ADD THE WORDS “and Owner’s Representative”.**
- IN PARAGRAPH (9.10.1) DELETE THE THIRD AND FOURTH APPEARANCES OF THE WORD “Architect” and “Architect’s” AND SUBSTITUTE THE WORDS “Owner’s Representative” and “Owner’s Representative’s”.**
- IN PARAGRAPH (9.10.1) AFTER THE FIFTH APPEARANCE OF THE WORD “Architect’s” ADD THE WORDS “and Owner’s Representative’s”.**
- IN THE LAST SENTENCE OF PARAGRAPH (9.10.1) DELETE THE WORD “Architect’s” AND SUBSTITUTE THE WORDS “Owner’s Representative’s”.**
- 66. IN PARAGRAPH (9.10.2) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORD “Owner’s Representative”.**
- 67. ADD THE FOLLOWING SUB-PARAGRAPH TO PARAGRAPH (9.10.2):**
- 9.10.2.1** When all items including items noted within Division 1000 General Requirements are found to be complete and in conformance with the Contract Documents, a final payment will be issued.
- 68. IN PARAGRAPH (9.10.3) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**

69. **IN PARAGRAPH (11.1.1) IN THE FIRST SENTENCE AFTER THE PHRASE** “as will protect the Contractor” **ADD THE WORDS** “Architect and Owner”.
70. **IN PARAGRAPH (11.1.2), IN THE FIRST SENTENCE DELETE THE WORDS** “limits of liability specified in the Contract Documents” **AND SUBSTITUTE THE WORDS** “limits required in ‘Attachment A – Project Specific Insurance Requirements’ (which is included as the last section of the Project Manual and the requirements therein shall be made part of the Contract Documents).”.

**IN PARAGRAPH (11.1.2) AFTER THE FIRST SENTENCE ADD:**

“In addition, if any of the work occurs within fifty feet of an active railroad line and the Contractor’s general liability coverages provide for exclusions of coverage when working on or near a railroad, the Contractor shall provide a separate Railroad Protective Liability Insurance Policy naming the railroad as the insured party, with the coverage limits required by that railroad.”

71. **IN PARAGRAPH (11.1.3), AFTER THE WORDS** “Certificates of insurance” **ADD THE WORDS** “and endorsements to the insurance policy(s) which are”.

**IN PARAGRAPH (11.1.3) AFTER THE WORDS** “acceptable to the Owner” **ADD THE WORDS** “and naming the Owner, their agents and consultants as additional insured”.

**ADD THE FOLLOWING SUB-PARAGRAPHS TO PARAGRAPH (11.1)**

**11.1.4** The Contractor may, at his option, furnish Owner’s Protective Liability Insurance in lieu of naming the Owner Additional Insured on the Contractor’s policy, as required above. This insurance shall protect the Owner from claims as set forth in Paragraph 11.1.1 of the General Conditions, and to the limits required herein, as shown in “Attachment A”.

**11.1.5** The Contractor shall furnish two copies of each of the required Certificates or Endorsements for each copy of the Agreement which shall specifically set forth evidence of all coverage required by the Contract Documents. The form of the Certificate(s) or Endorsement(s) shall be those as required in “Attachment A”. The Contractor shall also furnish to the Owner copies of any endorsements which limit coverage, or are subsequently issued amending coverage or limits of coverage.

72. **DELETE PARAGRAPHS (11.3.1, 11.3.2, AND 11.3.3) IN THEIR ENTIRETY.**

73. **DELETE PARAGRAPH (11.4.1) AND SUBSTITUTE:**

“If the work of the project is being completed by one general or prime contractor rather than multiple prime contractors, the Contractor shall purchase and maintain property insurance upon the entire Work at the site to the full replacement value thereof. Such insurance shall be in a company or companies against which the Owner has no reasonable objection. This insurance shall include the interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Work.

74. **AT THE END OF PARAGRAPH (11.4.1.1) ADD THE FOLLOWING SENTENCE:** “The form of policy for this coverage shall be “Completed Value”.

75. **DELETE PARAGRAPH (11.4.1.2) IN ITS ENTIRETY.**

**76. DELETE PARAGRAPH (11.4.1.3) IN ITS ENTIRETY AND SUBSTITUTE:**

“If by the terms of this insurance any mandatory deductibles are required, or if the Contractor should elect, with the concurrence of the Owner, to increase the mandatory deductible amounts or purchase this insurance with voluntary deductible amounts, the Contractor shall be responsible for payment of the amount of all deductibles in the event of a paid claim. If separate contractors are added as insureds to be covered by this policy, the separate contractors shall be responsible for payment of appropriate part of any deductibles in the event claims are paid on their part of the Project.”

**77. DELETE PARAGRAPHS (11.4.3, 11.4.4, AND 11.4.5) IN THEIR ENTIRETY.**

**78. DELETE PARAGRAPH (11.4.6) AND SUBSTITUTE:**

“The Contractor shall file two certified copies of all policies with the Owner before exposure to loss can occur. If the Owner is damaged by the failure of the Contractor to maintain such insurance and to so notify the Owner, then the Contractor shall bear all reasonable costs properly attributable thereto.

**79. DELETE PARAGRAPHS (11.4.7, 11.4.8, 11.4.9, AND 11.4.10) IN THEIR ENTIRETY.**

**80. DELETE PARAGRAPH (11.5.1) AND SUBSTITUTE:**

“The Contractor shall furnish a Performance Bond and a separate Labor and Material Payment Bond, each for one hundred percent (100%) of the Contract Sum. Form of these bonds shall be as provided by the Owner in the Project Manual and no other form will be accepted. The Surety shall be authorized to do business in the State of Illinois and be acceptable to the Owner.

**81. IN PARAGRAPH (12.1.1) DELETE THE WORD “Architect’s” AND SUBSTITUTE WORDS “Owner’s Representative’s and Architect’s”. DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**

**82. IN PARAGRAPH (12.1.2) AFTER THE WORD “Architect” ADD THE WORDS “and Owner’s Representative”.**

**83. IN PARAGRAPH (12.2.1.1) AFTER THE WORD “Architect” ADD THE WORDS “and Owner’s Representative”.**

**84. IN PARAGRAPH (13.5.4) AFTER THE WORD “Architect” ADD THE WORDS “and Owner’s Representative”.**

**85. IN PARAGRAPH (14.1.1.3) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**

**86. IN PARAGRAPH (14.2.2) DELETE THE PHRASE “, upon certification by the Architect that sufficient cause exists to justify such action,”.**

**87. IN PARAGRAPH (14.2.4) DELETE THE WORD “Architect” AND SUBSTITUTE THE WORDS “Owner’s Representative”.**

**88. DELETE PARAGRAPH (14.4.3) IN ITS ENTIRETY AND SUBSTITUTE:**

In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination. In no event, however, will such amounts exceed the Contract Sum reduced by the amount of prior payments except for increases pursuant to the claims procedure in the Contract Documents. Subcontracts, subsubcontracts, and purchase orders will contain appropriate provisions for termination for convenience under this Paragraph 14.4.

**89. ADD THE FOLLOWING ARTICLE 15: LABOR, SAFETY AND WAGE STANDARDS TO THE GENERAL CONDITIONS OF THE CONTRACT:**

**ARTICLE 15  
LABOR, WAGE, SAFETY, AND OTHER STANDARDS**

**15.1 LABOR STANDARDS.** All employers shall comply with the Employment of Illinois Workers on Public Works Act [30 ILCS 570/1 to 570/7].

**15.2 WAGE STANDARDS.**

**15.2.1 PREVAILING WAGE ACT:** Wages and benefits to employees shall comply with all Federal and State of Illinois statutes pertaining to public works projects and specifically: Wages of Employees on Public Works [820 ILCS 130/1 - 12].

**15.2.2** Not less than the prevailing rate of wages as determined by the Park District or the Department of Labor shall be paid to all laborers, workers and mechanics performing work under this contract. All contractor's bonds shall include a provision as will guarantee the faithful performance of such prevailing wage clause as provided by this bid specification or contract.

**15.2.3** The terms "general prevailing rate of hourly wages", "general prevailing rate of wages" or "prevailing rate of wages" when used in this Act mean the hourly cash wages plus fringe benefits for training and apprenticeship programs approved by the U.S. Department of Labor, Bureau of Apprenticeship and Training, health and welfare, insurance, vacations and pensions paid generally, in the locality in which the work is being performed, to employees engaged in work of a similar character on public works.

**15.2.4 PREVAILING WAGE ACT/FOIA**  
Contractors and subcontractors shall submit certified payroll on a monthly basis to the Park District in compliance with requirements of 820 ILCS 130/5. These records will be kept by the Park District for three years and may be reviewed by others through the Freedom of Information Act (FOIA). The Park District will exclude employee's address, telephone number, and social security number from public inspection.

**15.3 SAFETY STANDARDS.**

**15.3.1 PROTECTION OF PERSONS AND PROPERTY:** The Contractor and his subcontractors shall, at all times, comply with applicable provisions of Federal, State and Local laws.

**15.3.1.1** The Contractor and his sub-contractors shall have written programs complying with Occupational Safety and Health Administration standards and/or Illinois Department of Labor requirements including, but not limited to the following: hazardous

communications, hearing conservation, respirator use, confined space entry, scaffolding, ladders, ventilation, flammable and combustible liquids, and lockout/tagout. The Contractor shall submit documentation of their programs at the request of the Owner's Representative, or Occupational Safety and Health Administration and/or Illinois Department of Labor officials.

#### **15.4 EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION/SEXUAL HARASSMENT**

**15.4.1** During the performance of the contract, the contractor agrees to the following:

**15.4.1.1** That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are under-utilized and will take appropriate affirmative action to rectify any such under-utilization.

**15.4.1.2** That, if it hires additional employees in order to perform his contract or any portion thereof, it will determine the availability (in accordance with the Rules and Regulations of the Illinois Department of Human Rights) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not under-utilized.

**15.4.1.3** That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability or an unfavorable discharge from military service.

**15.4.1.4** That it will have a written sexual harassment policy to include at the minimum, the following:

**15.4.1.4.1** a definition of sexual harassment under the law;

**15.4.1.4.2** a description of sexual harassment utilizing examples;

**15.4.1.4.3** a formalized complaint procedure;

**15.4.1.4.4** a statement of victim's rights;

**15.4.1.4.5** directions on how to contact the Illinois Department of Human Rights. Out-of-state companies must provide directions for filing with the enforcement agency within their state. Companies that issue a standard policy for all business locations must prepare an addendum providing directions on how to contact the appropriate enforcement agency; and

**15.4.1.4.6** A recitation that there cannot be any retaliation against employees who elect to file charges.

**15.4.1.4.7** In addition, it is recommended that the employer post a copy of the sexual harassment policy in a prominent and accessible location and distribute it in a manner to assure notice to all employees on an annual basis.

**15.4.1.4.8** The Illinois Human Rights Act specifically provides that all documents may meet, but cannot exceed, the sixth grade literacy level. Therefore, the employers sexual harassment policy must be stated in plain language and in "laymen's terms".

**15.4.1.5** That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the contractor in its efforts to comply with such Act and Rules and Regulations, the contractor will promptly so notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

**15.4.1.6.** That it will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.

**15.4.1.7.** That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.

**15.4.1.8.** That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

**15.4.2** In the event of the contractor's non-compliance with the provisions of the Illinois Human Rights Act, the contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporation, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulations.

END OF SUPPLEMENTARY GENERAL CONDITIONS

## DIVISION 010000 GENERAL REQUIREMENTS

### SECTION 010000 - GENERAL

#### A. SUMMARY OF THE WORK

1. The Work covered under this Contract consists of that work described by the Invitation to Bid, the Instructions/Supplemental Instructions to Bidders, the Bid/Proposal Form, the General/Supplemental Conditions of the Contract, these General Requirements, the Plans, and the Technical Specifications.
2. The Contractor shall be responsible for all items incidental to the scope of the Work intended by the bidding documents as per A.1 above, including but not limited to, expenses incurred by the requirements of various Sections of Division 010000, unless specifically stated otherwise herein.
3. Changes to the Work as required by approved Change Orders shall be at the expense of the Owner, however, requests for additional payments made after the fact will not be considered.

#### B. OCCUPANCY BY OWNER.

1. The Owner reserves the right to occupy any portion of the project before it has been entirely completed, with the understanding that such occupancy shall in no way constitute acceptance of the work, in whole or in part, or of any work performed under the Contract, provided that such occupancy does not substantially interfere with completion of the work by the Contractor.

### SECTION 012600 - CHANGE ORDERS

#### A. OWNER'S REPRESENTATIVE'S FIELD ORDERS

1. From time to time during progress of the Work the Owner's Representative may issue an "Owner's Representative's Field Order" which interprets the Contract Documents or orders minor changes in the Work without change in Contract Sum or Contract Time.
2. Should the Contractor consider that a change in Contract Sum or Contract Time is required he shall submit an itemized proposal to the Owner's Representative **immediately and before proceeding with the Work**. If the proposal is found to be satisfactory and in proper order, the Field Order will be superseded by a Change Order.

#### B. PROPOSAL REQUESTS

1. From time to time during the progress of work the Owner's Representative may issue a "Proposal Request" for an itemized quotation for changes to the Work which may result in a change to the Contract Sum or Contract Time. This document **is not a Change Order** and is not a direction to proceed with the changes described therein.

#### C. CHANGE ORDERS

1. Change Orders are written documents describing changes in the Work, in the Contract Sum, in the Contract Time of Completion, or any combination thereof. Change Orders must be signed by both the Owner and the Architect/Owner's Representative prior to proceeding with the Work subject to the Change Order. **REQUESTS FOR "EXTRA'S" OR OTHER ADDITIONAL PAYMENTS OVER AND ABOVE THE CURRENT CONTRACT SUM WILL NOT BE CONSIDERED WITHOUT THE PRIOR, WRITTEN APPROVAL OF BOTH THE OWNER AND THE OWNER'S REPRESENTATIVE.**
  - a) INITIATION. Change Orders may be initiated by a "Field Order" or "Proposal Request" per paragraphs "A" and "B" above. In addition, either the Contractor or Owner (or Owner's Representative) may initiate a Change Order through:
    - 1) Discovery of a discrepancy in the Contract Documents,
    - 2) Discovery of concealed conditions or,
    - 3) Discovery, during the course of the Work, of methods of accomplishing the Work in a better or more economical manner.
  - b) PROCESSING CHANGE ORDERS.
    - 1) Change Orders will be dated and will be numbered in sequence.
    - 2) The Change Order will describe the change or changes, or will refer to the Proposal Requests or Field Orders involved.
    - 3) The Owner's Representative will issue three copies of each Change Order to the Contractor.
    - 4) The Contractor promptly shall sign all three copies and return them to the Owner's Representative.
    - 5) The Owner and Owner's Representative will retain two signed copies in their files, and will forward one signed copy to the Contractor.
    - 6) Should the Contractor disagree with the stipulated change in Contract Sum or change in Contract Time of Completion, or both:
      - i) The Contractor promptly shall return all three of the Change Orders, unsigned by him, to the Owner's Representative with a letter signed by the Contractor stating the reason or reasons for the Contractor's disagreement.
      - ii) The Contractor's disagreement with the Change Order shall not in any way relieve the Contractor of his responsibility to proceed with the change as ordered and to seek settlement of the dispute under pertinent provisions of the Contract Documents.

### SECTION 012900 - PAYMENT PROCEDURES

#### A. SCHEDULE OF VALUES

1. Prior to the start of construction, submit a proposed Schedule of Values to the Owner's Representative which shows a detailed breakdown of the agreed Contract Sum showing values allocated to each of the various parts of the Work, as specified herein and in other provisions of the Contract Documents.
  - a) The Schedule of Values is required to be compatible (in the same format) with the Application for Payment "Continuation Sheet", AIA G703.

2. If not requested to submit additional data or to modify the submitted Schedule of Values within ten (10) days of submittal, the initially submitted Schedule shall be deemed approved.

**B. APPLICATIONS FOR PAYMENT**

1. Progress payments will be made only if specifically called for in the Agreement. In all other cases, the Contractor may submit an Application for Payment (3 copies) upon Substantial Completion (95% of the Contract Sum), with the balance of the Contract Sum to be paid at Final Completion.
  - a) **Paragraph #52 of the Supplementary General Conditions defines the documentation required for each payment request.**
  - b) Applications for payment shall be delivered to the Owner's Project Manager at:

Department of Planning, Design, and Construction  
Peoria Park District  
Bradley Park Equipment Service  
1314 N. Park Road  
Peoria, Illinois 61604

**SECTION 013100 - PROJECT MEETINGS**

**A. PRECONSTRUCTION CONFERENCE**

1. Conduct a preconstruction conference prior to the start of the Work, at the location of the Work. Provide attendance by the designated personnel of the Contractor, including Sub-contractor's and/or suppliers of major components of the Work, if requested by the Owner's Representative.
  - a) **AGENDA.** Discuss items of significance that could affect progress including such topics as:
    - 1) Tentative construction schedule.
    - 2) Critical Work sequencing.
    - 3) Designation of responsible personnel.
    - 4) Procedures for processing field decisions and Change Orders.
    - 5) Procedures for processing Applications for Payment.
    - 6) Distribution of Contract Documents.
    - 7) Submittal of Shop Drawings, Product Data and Samples.
    - 8) Preparation of record documents.
    - 9) Use of the premises.
    - 10) Office, Work and storage areas.
    - 11) Equipment deliveries and priorities.
    - 12) Safety procedures.
    - 13) First aid.
    - 14) Security.
    - 15) Housekeeping.
    - 16) Working hours.
    - 17) Permits and Permitting Agency Requirements

**B. PROJECT MEETINGS**

1. Project Meetings will be held per the schedule determined at the Preconstruction Conference, or as needed for proper coordination and administration of the project.
  - a) **AGENDA**
    - 1) Review and correct or approve minutes of the previous progress meeting.
    - 2) Review progress of the Work since last meeting, including status of submittals for approval.
    - 3) Identify problems which impede planned progress.
    - 4) Develop corrective measures and procedures to regain planned schedule.
    - 5) Complete other current business.

**C. REPORTING**

1. Distribute copies of the minutes of each meeting to each party present, and to other parties who should have been present, no later than three business days after each meeting.

**SECTION 013300 - SUBMITTALS**

**A. Requirements for shop drawings, samples, mock-ups, product data, etc., relative to specific elements or components of the work are called out in the various sections of the Technical Specifications.**

1. Submit items to allow for Owner's Representative's review and approval, potential re-submission if full approval is not given, ordering, delivery, fabrication time, etc., so as to allow the Work to proceed in a timely manner and in conformance with the project schedule.

**B. OTHER CONTRACTOR SUBMITTALS**

1. Unless otherwise modified the Contractor shall also submit:
  - a) A "bar chart" type proposed construction schedule, within ten days after award of the Bid.
  - b) Other submittals as required by other section of Division 010000.

**C. Submission of the required Bonds and Certificate of Insurance are to be made prior to the Owner's issuance of a Notice to Proceed.**



## SECTION 014000 – QUALITY/REGULATORY REQUIREMENTS

- A. GENERAL: Contractors shall comply with all laws, rules and regulations governing the work.
1. When Contractor observes that contract documents are at variance with specified codes, notify Owner's Representative in writing immediately. Owner's Representative will issue all changes in accord with General Conditions.
  2. When Contractor performs any work knowing or having reason to know that the work is contrary to such laws, rules and regulations and fails to so notify the Owner's Representative, Contractor shall pay all costs arising therefrom. However, it will not be the Contractor's primary responsibility to make certain that the contract documents are in accord with such laws, rules and regulations.
- B. SAFETY:
1. Comply with all federal, state, and local laws, rules and regulations governing the installation/construction of the work.
  2. Develop and utilize safety program and training for workmen and sub-contractor employees.
- C. TESTING
1. TESTS AND INSPECTIONS REQUIRED
    - a) Provide all tests and inspections required by governmental agencies having jurisdiction, as required by provisions of the Contract Documents and/or as specifically required by sections of the Technical Specifications.
  2. PAYMENT FOR TESTING
    - a) Include within the Contract Sum an amount sufficient to cover all testing, re-testing, and inspections required by the Contract documents and/or the Technical Specifications. Additionally pay for all testing and inspections required by all governmental agencies having jurisdiction.
      - 1) The Owner will pay for any testing and inspecting specifically requested by the Owner's Representative which are over and above those described in Paragraph 1.a) above.
      - 2) When initial tests (over and above those defined by 1.a) above) requested by the Owner's Representative indicate non-compliance with the Contract Documents, costs of initial tests associated with that non-compliance will be deducted by the Owner from the Contract Sum, and subsequent retesting occasioned by the non-compliance shall be performed by the same testing laboratory and the costs thereof shall be paid by the Contractor.
  3. WAIVER OF INSPECTION AND/OR TESTS
    - a) Specified inspections and/or tests may be waived only by the specific written approval of the Owner's Representative, and **such waivers will be expected to result in credit to the Owner equal to normal cost of such inspection and/or test.**

## SECTION 014200 - REFERENCE STANDARDS AND DEFINITIONS

- A. Copies of Standards: Each entity engaged in construction on the Project is required to be familiar with industry standards applicable to that entity's construction activity. Copies of applicable standards are not bound with the Contract Documents.
1. Where copies of standards are needed for performance of a required construction activity the Contractor shall obtain copies directly from the publication source.
  2. Although copies of standards needed for enforcement of requirements may be included as part of required submittals the Architect reserves the right to require the Contractor to submit additional copies as necessary for enforcement of requirements.
- B. Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. Where such acronyms or abbreviations are used in the Specifications or other Contract Documents they mean the recognized name of the trade association standards generating organization authority having jurisdiction or other entity applicable to the context of the text provision. Refer to the Encyclopedia of Associations, published by Gale Research Co. available in most libraries.
- C. Definitions: Architect, Owner's Representative, and Owner's Project Manager
1. **ARCHITECT:** The Architect shall be the person or entity designated by the Owner as the Owner's Representative and shall be identified as such in the Agreement Between Owner and Contractor, and is referred to throughout the Contract Documents as if singular in number and masculine in gender.
  2. **OWNER'S REPRESENTATIVE:** The duties of the Owner's Representative as listed in the Project Manual, include but are not limited to, construction phase observation and technical administration services.
    - a) **LIMITS OF AUTHORITY:** The Owner's Representative shall be authorized to provide approvals and interpretations concerning the plans, specifications and progress of the Work as bid, but is not authorized to change the scope of the Work on behalf of the Owner.
  3. **OWNER'S PROJECT MANAGER:** The Owner's Project Manager will represent, act on behalf of, and provide interface between the Owner and the Contractor in respect to contract administration and/or other matters which affect the scope of the Work.
    - a) Unless defined otherwise in the Project Manual, the Owner's Project Manager shall be a designated member of the Planning, Design, and Construction Division of the Peoria Park District.
    - b) The Owner's Project Manager will also be the Owner's Representative and will provide construction phase observation and technical administration services, if a consultant Architect has not been engaged to do so, by the Owner.

## SECTION 015000 – TEMPORARY FACILITIES & CONTROLS

- A. MOBILIZATION
1. Furnish all labor, tools, materials, equipment, and incidentals necessary for preparatory work.
  2. Provide and establish personnel, equipment, supplies, materials, offices or buildings, and other facilities necessary to work on the project.
  3. Demobilize all of the above and remove temporary facilities at the completion of the project.
- B. BARRIERS, PROTECTION OF SITE AND PROPERTY
1. GENERAL
    - a) Owner's improvements to remain, existing utilities, as well as adjacent site improvements shall be protected from damage by barriers, guards and coverings. Damaged work shall be replaced or repaired to condition prevailing at time of signing of contract, at no additional cost to Owner.

- b) Provide 6' high, continuous chain link or orange plastic (used materials acceptable) construction fence to prohibit unauthorized personnel or public entry from the site of the Work. (Substitutions may be considered; submit request in writing to the Owner's Representative.)
- c) Contractor shall provide, erect and maintain additional planking, fences, protective canopies, railings, shoring, lights, warning signs, etc., as needed for the protection of adjacent property and the public.

2. LANDSCAPE PROTECTION

- a) All live, healthy trees, shrubs, etc. on the site or on the street fronts of the site, not specified to be removed and not interfering with installation of new work required hereunder, shall be protected against injury from construction operations.
- b) All shade trees which are to remain and which are liable to damage during the building operations, shall be properly boxed and protected from damage during the course of construction work as directed by the Park District. **No site-related work shall occur until the required tree protection (fencing, boxing, etc.) has been installed and approved by the Owner or his representative.**
  - 1) LIQUIDATED DAMAGES: The Owner reserves the right to charge the Contractor for damage to existing trees, and to deduct the charges from the amounts due the Contractor, based on the following schedule:
    - aa) Broken limbs 1" or over in diameter: \$50 per caliper inch of limb
    - bb) Trenching or grading within the tree dripline or 20' from the trunk, whichever is less, of trees 4" or over in caliper diameter: \$100 per tree/per foot within dripline, or within 20' minimum if applicable
    - cc) Damage to tree trunks, including "barking", nicking, gouging, etc. \$150 per caliper inch of tree, per each injury

3. BARRIERS/CONSTRUCTION FENCE MATERIALS

- a) 2" open mesh chain link fence, 72" high minimum, galvanized, with appropriately sized posts; gates where indicated.
- b) Alternate barrier fencing materials may be acceptable, however, no additional payments will be made on account of approval of alternate barrier/safety fencing materials.
- c) Materials may be new or used, if in serviceable condition.

4. WATCHMAN SERVICE

- a) The Owner will not be responsible for loss due to theft or other damage which is not covered under Property Insurance. The Contractor shall make such arrangements for watchman service as he considers necessary and he shall be responsible for all loss or damage of his property, equipment, material, etc., at the site, and he shall make good such damage or loss without any additional cost to the Owner.

5. EXISTING IMPROVEMENTS - PROTECTION

- a) The Contractor shall be entirely responsible for all injuries to water pipes, electric conduits or cables, drains, sewers, gas mains, poles, telephones and telegraph lines, streets, pavements, sidewalks, curbs, culverts, retaining walls, building walls, foundation walls, or other structures of any kind met with during the progress of the Work, and shall be liable for damages to public or private property resulting therefrom.

C. CONSTRUCTION ACCESS, ROADS, AND PARKING AREAS

1. CONTRACTOR'S USE OF PREMISES

- a) The Contractor shall require that all personnel who will enter upon the Owner's property certify their awareness of and familiarity with the requirements of this Section.

2. CONSTRUCTION ACCESS

- a) To avoid traffic conflict with vehicles of the Owner's employees and customers, and to avoid over-loading of streets and driveways elsewhere on the Owner's property, limit the access of trucks and equipment to the route shown (IF SHOWN) on the Drawings as "Access Route". If access route is not shown on the Drawings, coordinate construction access and routes with the Owner's Project Manager.
- b) Do not permit such vehicles to park on any street or other area of the Owner's property except in the area shown on the Drawings as "Contractor's Parking Area". If not shown on the drawings, the Contractor's Parking Area shall be as designated by the Owner's Project Manager.
- c) Provide adequate protection for curbs and sidewalks over which trucks and equipment pass to reach the job site.

3. SECURITY

- a) Restrict the access of all persons entering upon the Owner's property in connection with the Work to the Access Route and to the actual site of the Work.

D. TEMPORARY ENVIRONMENTAL CONTROLS

1. GENERAL

- a) Provide temporary environmental controls at the site of the Work to ensure that construction operations have no harmful effects on adjacent properties and on members of the public who may come in proximity to the Work, and/or the employees of the Owner who are engaged in regular daily tasks and operations and are unable to be relocated to another work site during construction operations.
- b) Owner reserves the right to stop the Work, at the Contractor's expense, until the Contractor provides necessary control measures for the conditions listed below; additionally, the Owner reserves the right to perform or have performed necessary control measures, should the Contractor refuse to do so at the time requested and to deduct the cost of those expenses from the amount due the Contractor.

2. DUST CONTROL

- a) Provide dust control materials to minimize dust from construction operations. Prevent air-borne dust from dispersing into the atmosphere.

3. WATER CONTROL

- a) Control surface water to prevent damage to the project, the site and adjoining properties.
  - 1) Control fill, grading, and ditching to direct surface drainage away from excavations, pits, tunnels, and other construction areas; direct drainage to proper runoff channels or storm drainage utilities.
- b) Provide, operate and maintain hydraulic equipment of adequate capacity to control surface water.
- c) Dispose of drainage water in a manner to prevent flooding, erosion silting, or runoff of silt or sediment or other damage to all portions of the site or to adjoining properties.

4. RODENT CONTROL

- a) Provide rodent control to prevent infestation of construction or storage areas.
  - 1) Use methods and materials which will not adversely affect conditions at the site or on adjoining properties.

5. **DEBRIS CONTROL**
  - a) Maintain all areas free of extraneous debris, waste, and rubbish.
6. **POLLUTION CONTROL**
  - a) Prevent contamination of soil, water or atmosphere by the discharge of noxious substances from construction operations.
  - b) Provide equipment and personnel, perform emergency measures to contain all spillages, and to remove contaminated soils or liquids.
    - 1) Excavate and dispose of all contaminated earth off-site. Replace with suitable compacted fill and topsoil.
  - c) Take special measures, as necessary, to prevent harmful substances from entering public waters, including lakes, streams, intermittent drainage channels, and storm or sanitary sewers.
7. **EROSION CONTROL**
  - a) Plan and execute construction and earthwork in a manner to control surface drainage from cuts and fills, and from borrow and waste disposal areas, to prevent erosion and sedimentation.
    - 1) Schedule the Work to minimize the areas of bare soil exposed at one time, if possible.
    - 2) Provide temporary control measures such as berms, dikes, and drains to prevent runoff of silt or sediment from the site.
    - 3) Comply with Section 015713.

**E. PROJECT IDENTIFICATION AND SIGNAGE**

1. **GENERAL**
  - a) Provide and install project identification sign, if located and/or called out on the Drawings.
2. **SUBMITTALS**
  - a) Provide shop drawing(s) of proposed sign/sign installation to Owner's Representative for approval, prior to installation
3. **INSTALLATION**
  - a) Provide project sign as detailed on Drawings
  - b) If not detailed on Drawings provide project identification sign per the following minimum requirement:
    - 1) Content
      - aa) Name of project
      - bb) Name of Owner
      - cc) Name of Architect(s) and major consultants
      - dd) Names of Contractor and major subcontractors
      - ee) Allow additional 200 characters of text explaining the project
    - 2) Construction
      - aa) Size: 4' x 8'
      - bb) Materials: Min. 5/8" AC DFPA Exterior Plywood, with (2) 4" x 4" x 12' long pressure treated post supports
      - cc) Paint: paint front and back, seal edges, provide content as approved by Owner's Representative. Conform to recognized sign painting standards in selection of paint materials. Use only professional sign painter with three years minimum experience to apply sign graphics and lettering.
    - 3) Install sign in a manner consistent with length of time of construction operations. Remove sign and fill post holes at project completion.

**F. FIELD OFFICES**

1. **TEMPORARY FACILITIES**

Provide and pay for temporary (new, or used if in serviceable condition) facilities and controls needed for the Work, if called out on the Drawings, which may include, but are not necessarily limited to:

  - a) Temporary utilities such as heat, water, electricity, and telephone;
  - b) Field office for the Contractor's personnel (required if shown on the Drawings; otherwise at the Contractor's option and expense).
    - 1) Conform with requirements for Engineer's Field Office Type B, as defined in Article 646.04 of the Standard Specifications for Road and Bridge Construction - Illinois Department of Transportation.
  - c) Sanitary facilities;
  - d) Enclosures such as tarpaulins, barricades, and canopies;
  - e) Temporary fencing of the construction site;
  - f) Project sign.
2. Comply with Federal, State, and local codes and regulations.
  - a) Maintain temporary facilities and controls in proper and safe condition throughout the progress of the work. The Contractor is responsible for conformance with all safety codes and regulations for all Work under his jurisdiction, including that of Sub-Contractors.
3. Locate temporary facilities as shown on the Drawings, or as approved by the Owner's Representative if not shown on the Drawings.

**SECTION 015713 – EROSION & SEDIMENT CONTROL**

**A. RELATED DOCUMENTS**

1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

**B. SUMMARY**

1. This Section includes the following:
  - a) Site erosion and sediment control
  - b) Silt fencing
  - c) Ditch checks

- d) Erosion control blankets
- e) Culvert and inlet protection
- f) Stabilized entrance
- 2. Related Sections include the following:
  - a) Division 31 – Earthwork.
  - b) Division 32 – Exterior Improvements.
- 3. Erosion and Sediment Control Statement: The Peoria Park District takes the issue of construction related erosion and sediment control extremely seriously. The Peoria Park District is a community leader in the conservation and protection of our area's natural resources. This project will be watched closely by both staff and citizens for compliance with erosion and sediment control regulations and specifications.

#### C. QUALITY ASSURANCE

- 1. Materials and methods of construction shall comply with the following standards:
  - a) Illinois Department of Transportation
  - b) City of Peoria

#### D. PRODUCTS

- 1. Silt Fencing
  - a) Fabric for silt fencing shall consist of woven or nonwoven filaments of polypropylene, polyester, or polyethylene. Fabric shall be resistant to degradation by ultraviolet light and heat exposure. Fabric shall be rot, insect, and mildew proof, and have a high resistance to tearing.
    - 1) Fabric shall comply with the following physical properties:
 

aa) Grab tensile strength (lb) – ASTM D4632	200 (min)
bb) Grab elongation @ break (%) – ASTM D4632	12
cc) Burst strength (psi) – ASTM D751	250 (min)
dd) Trapezoidal tear strength (lb) – ASTM D4533	75
ee) Width (ft)	3.5 (min)
ff) Weight (oz/sq. yd) – ASTM D3776	4.0
gg) Equivalent opening size	30 (nonwoven)
hh) (EOS) sieve no. – Corps of Engrs. CS-02215	50 (woven)
- 2. Ditch Checks
  - a) Ditch checks will consist of silt fencing with the addition of wire reinforcement.
  - b) Wire shall be 9 gauge.
  - c) Alternate: Straw bales may be used in lieu of silt fencing
- 3. Posts
  - a) Posts shall be standard "T" or "U" steel posts or wood with a minimum cross section of 3 square inches. Posts shall be a minimum of 60" in length. Posts shall be driven a minimum of 24" into the ground.
- 4. Erosion Control Blankets
  - a) Excelsior Blanket: Excelsior blanket shall consist of a machine produced mat of wood excelsior of 80% 6" or longer fiber length. The wood from which the excelsior blanket is cut shall be properly cured to achieve adequately curled and barbed fibers.
    - 1) The blanket shall be of consistent thickness, with the fiber evenly distributed over the entire area of the blanket. The excelsior blanket shall be covered on the top side with a 90 day biodegradable extruded plastic mesh netting having an approximate minimum opening of 16 x 16 mm (5/8 x 5/8 in.) to an approximate maximum opening of 50 x 25 mm (2 x 1 in.). The netting shall be substantially adhered to the excelsior blanket by a knitting process using biodegradable thread or by an applied degradable adhesive. The netting shall be substantially adhered to the excelsior by a knitting process using biodegradable thread. The netting shall be entwined with the excelsior blanket for maximum strength and ease of handling.
    - 2) The excelsior blanket shall comply with the following:
 

aa) Minimum width, ± 25 mm (1 in.)	600 mm (24 in.)
bb) Minimum mass ± 10%	0.34 kg/sm (0.63 lb/sq yd)
cc) Minimum length of roll, approximately	45 m (150 ft)
    - 3) The excelsior blanket shall be smolder resistant.
- 5. Culvert And Inlet Protection
  - a) Culvert protection shall consist of a ditch check immediately upstream of every culvert entrance. Ditch check shall be installed to protect culvert interior from sedimentation.
  - b) Inlet protection shall consist of purpose made devices by:
    - Dandy Products, Inc.
    - P. O. Box 1980
    - Westerville, Ohio 43086-1980
    - Phone: 1-800-591-2284
    - Fax: 740-881-2791
    - [www.dandyproducts.com](http://www.dandyproducts.com)
    - [dlc@dandyproducts.com](mailto:dlc@dandyproducts.com)
    - or
    - NILEX, Inc.
    - 15171 E. Fremont Drive
    - Centennial, CO 80112
    - Phone: 1-800-537-4241
    - Fax: 303-766-1110
    - [www.nilex.com](http://www.nilex.com)
    - [denver@nilex.com](mailto:denver@nilex.com)
  - c) "Or Equal" substitutions may be made with prior approval of Owner's Representative.

6. Stabilized Entrance
  - a) Stabilized entrance shall consist of coarse aggregate laid over geotextile fabric.
  - b) Dimensions: 70' long by 14' wide.
  - c) Geotextile Fabric: as per requirements of "silt fencing".
  - d) Aggregate: IDOT Class CA-1, CA-2, cA-3, or CA-4.

#### E. EXECUTION

1. Site Erosion And Sediment Control
  - a) Contractor is responsible for fulfilling terms of City of Peoria Erosion Control Permit and all applicable portions of the "Erosion, Sediment, and Stormwater Control Ordinance of the City of Peoria".
  - b) Install control devices as shown on erosion control plan.
  - c) Install additional measures as needed to control erosion and sedimentation on the site.
2. Silt Fencing Installation
  - a) Install silt fencing according to details in plans. The silt fence shall be entrenched to a minimum depth of 8".
  - b) The silt fence shall be installed on the contour, with the ends extending up-slope.
  - c) Install silt fencing before commencing site clearing work.
3. Ditch Check Installation
  - a) Install ditch checks according to details in plans.
  - b) Install ditch checks at locations shown on plans.
  - c) Install additional ditch checks as needed to control erosion within drainage swales as site conditions and weather dictate.
  - d) Install ditch checks immediately after swales are graded.
4. Erosion Control Blankets Installation
  - a) Install erosion control blankets as needed to control erosion in drainage swales and at the direction of the Owner's Representative.
  - b) Anchor stakes shall be driven at a spacing of 2 feet on center.
5. Culvert And Inlet Protection Installation
  - a) Install culvert protection at upstream entrances to all culverts.
  - b) Install culvert protection to intercept waterborne silt and sediment and prevent it from entering culvert pipes.
  - c) Install immediately after culvert installation.
  - d) Install inlet protection according to manufacturer's written instructions at each inlet immediately after inlet construction.
6. Stabilized Construction Entrance Installation
  - a) Install stabilized construction entrance and other approved measures as necessary to limit tracking of soil on to all paved surfaces.
  - b) Comply with all City of Peoria codes limiting tracking of soil on to City streets.
7. Maintenance
  - a) Inspect silt fences after each rainfall. Repair fencing, failures, end runs, and erosion cuts immediately.
  - b) Remove soil from silt fencing after each rainfall.
  - c) Erosion control maintenance and repair shall be considered incidental to the contract.
  - d) Tracked soil and sediment shall be removed from all paved surfaces on a daily basis.
  - e) Replace or provide new erosion and sediment control measures as needed during construction to provide protection to site and surrounding property for the entire time of construction, or until project is complete.
8. Close-Out
  - a) Remove silt fencing and other erosion and sediment control devices after lawn or seeding has been established.
  - b) Soil deposits remaining in place after silt fence is no longer required shall be dressed to conform to existing grade, and seeded with appropriate seed material.

### SECTION 016000 – PRODUCT REQUIREMENTS

#### A. MATERIALS AND EQUIPMENT

1. STANDARD SPECIFICATIONS
  - a) Reference herein to known standard specifications of governmental agencies or technical societies shall refer to the latest edition of such specifications, adopted and published at date of these Specifications.
2. MANUFACTURED ARTICLES
  - a) All manufactured articles, materials and equipment to be incorporated in the work shall be new (unless otherwise specified) and of the quality specified and shall be used, erected, installed, connected, cleaned and conditioned as directed by and in conformity with job conditions to produce the best results obtainable.
    - 1) Field measurements for all special products and materials which requires close tolerances or fitting into other items or components of the Work shall be taken on the job by the party furnishing the materials.
3. QUALITY ASSURANCE
  - a) Per the Supplementary Instructions to Bidders, the Bidder by submission of a signed bid form, agrees to install products and equipment by brand and model name or names specified in the Technical Specifications, Divisions 02-35. Substitutions are allowed only in conformance to the following:
    - 1) Proprietary Specification Requirement: Where only a single product or manufacturer is named, provide the product indicated. No substitutions will be permitted.
    - 2) Semiproprietary Specification Requirement: Where two or more products or manufacturers are named, provide one of the products indicated. No substitutions will be permitted
      - aa) Where either of the two cases above prevail, and the named product is accompanied by "or approved equal" substitutions will be allowed only upon written approval of the Owner's Representative prior to submission of bids.
    - 3) Non-Proprietary Specification Requirement: When the Specifications lists products or manufacturers that are available and are accompanied by "or equal", the Contractor may propose any available product that complies with the Specifications' requirements; however, the Owner's Representative shall determine if the produced item complies with those requirements.

- 4) Descriptive Specification Requirement: Where Specifications describe a product or assembly listing exact characteristics required, with or without use of a brand, trade, or model name, provide a product or assembly that provides the characteristics and otherwise complies with the Contract Documents.
- 5) Performance Specification Requirement: Where Specifications require compliance with performance requirements, provide products or assembly that comply with these requirements and are recommended by the manufacturer for the application indicated.
- 6) Compliance with Standards, Codes, and Regulations: Where the Specifications only require compliance with an imposed code, standard, or regulation, select a product that complies with the standard, code, or regulation specified.
- b) **VISUAL MATCHING AND SELECTION**. Where the Specifications require matching an established sample or call for "as selected", the Owner's Representative's decision will be final on whether a proposed product matches satisfactorily.

## B. STORAGE AND PROTECTION

### 1. GENERAL

- a) Contractor shall provide and maintain:
  - 1) Storage for materials and equipment to be installed in Project.
  - 2) Protection and security for stored materials and equipment, on and off site.
  - 3) Protection of existing on-site elements to remain.
  - 4) Protection of adjacent properties improvements

### 2. METHODS

- a) Store off grade and cover with impervious material all moisture or water vulnerable materials.
- b) Store finished products and equipment in an enclosed building, on or off site.
- c) Maintain integrity of shipping cartons until ready for installation.
- d) Provide separate storage for combustible and non-combustible products.
- e) Follow storage recommendations of product and equipment manufacturers.
- f) Other methods shall be subject to Owner's prior written approval.

3. The Contractor shall maintain an emergency phone number where a contact person can be notified at any time, Sundays and holidays included, of an emergency condition due to the work which requires immediate repair or protection.

## C. SUBSTITUTIONS

1. See "SECTION 016000 – A. MATERIALS AND EQUIPMENT" for requirements pertaining to substitution of specified materials, products, equipment, etc.
2. Contractor may propose substitute materials, products, equipment, etc., after award of the Bid; however, such proposals are expected to result in a cost savings to the Owner and/or higher quality Work at no additional cost to the Owner.

## D. WARRANTIES AND BONDS

### 1. GENERAL

- a) This Section specifies general administrative and procedural requirements for warranties and bonds required by the Contract Documents, including manufacturer's standard warranties on products and special warranties.
- b) Warranties for the Work and products and installations of each Contractor shall be one (1) year unless specified otherwise in the individual Sections of Divisions 02 through 35.
- c) Disclaimers and Limitations:
  - 1) Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Work that incorporates the products, nor does it relieve suppliers, manufacturers, and Contractors required to countersign special warranties with the Contractor.
  - 2) The responsibility of the Contractor in respect to the required warranties shall not be relieved or limited in any way by the failure of installed components, equipment, materials, etc., due to naturally occurring and/or re-occurring conditions at the site or area of the Work including, but not limited to:
    - aa) ground and soil conditions, especially as related to frost heave;
    - bb) high wind velocities (except those exceeding velocities normally used for calculating wind loading at the site of the Work);
    - cc) rain and water damage (unless caused by winds exceeding normal design limits);
    - dd) ice/snow loading on structures
    - ee) and other naturally occurring or re-occurring site conditions
  - 3) The Contractor shall notify the Owner's Representative, prior to the award of the contract, of any part or component of the Work that is, in his opinion, not designed to accommodate the existing, naturally occurring, or re-occurring conditions of the site, and whether or not a change in the proposed methods of construction, types of equipment, etc., will affect the bid price.
    - aa) Should the proposed change in construction methods, equipment type, etc., result in additional expense, the Owner reserves the right to request proposals from the other bidders and to make award the contract based on the bid amount which includes the proposed change.

### 2. WARRANTY REQUIREMENTS

- a) **Related Damages and Losses**: When correcting warranted Work that has failed, remove and replace other Work that has been damaged as a result of such failure or that must be removed and replaced to provide access for correction of warranted Work.
- b) **Reinstatement of Warranty**: When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.

- c) Replacement cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of the Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the Owner has benefited from use of the Work through a portion of its anticipated useful service life.
  - d) Owner's Recourse: Written warranties made to the Owner are in addition to implied warranties, and shall not limit the duties, obligations, rights and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the Owner can enforce such other duties, obligations, rights or remedies.
    - aa) Rejection of Warranties: The Owner reserves the rights to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.
  - e) The Owner reserves the right to refuse to accept Work for the Project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to countersign such commitments are willing to do so.
  - f) For specific warranty requirements related to landscape materials, refer to the applicable Section.
3. SUBMITTALS
- a) Submit written warranties to the Owner's Representative prior to the date certified for Substantial Completion. If the Owner's Representative's Certificate of Substantial Completion designates a commencement date for warranties other than the date of Substantial Completion for the Work, or a designated portion of the Work, submit written warranties upon request of the Owner's Representative.
    - 1) When a designated portion of the Work is completed and occupied or used by the Owner, by separate agreement with the Contractor during the construction period, submit properly executed warranties to the Owner's Representative within fifteen days of completion of that designated portion of the Work.
  - b) Form of Submittal: At Final Completion, compile two copies of each required warranty and bond properly executed by the Contractor, or by the Contractor, Subcontractor, supplier, or manufacturer. Organize the warranty documents into an orderly sequence based on the table of contents of the Project Manual.
  - c) Bind warranties and bonds in heavy-duty, commercial quality, durable 3-ring vinyl covered loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2" by 11" paper.
  - d) Provide heavy paper dividers with celluloid covered tabs for each separate warranty. Mark the tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product, and the name, address and telephone number of the installer.
  - e) Identify each binder on the front and the spine with the typed or printed title "WARRANTIES AND BONDS", the project title or name, and the name of the Contractor.
  - f) When operating and maintenance manuals are required for warranted construction, provide additional copies of each required warranty, as necessary, for inclusion in each required manual.

## SECTION 017300 – EXECUTION

### A. GEOTECHNICAL DATA

- 1. If the Owner has caused borings or other subsurface investigations to be made, the data or report pursuant to these investigations will be included in the Project Manual, as an Appendix, and labeled as such.
- 2. The Owner and Owner's Representative do not guarantee the accuracy or validity of the data, nor do they assume any responsibility for the Contractor's interpretation of the data.
- 3. The Contractor's may, at his option, perform additional subsurface investigation, however, it shall be at the Contractor's sole expense.

### B. FIELD ENGINEERING

Provide such field engineering services as are required for proper completion of the Work including, but not limited to:

- 1. Establishing and maintaining lines and levels
- 2. Structural design of shores, forms, and similar items provided by the Contractor as part of his means and methods of construction.
- 3. Verify layout information shown on the Drawings, in relation to the property survey and existing benchmarks and control points. Preserve permanent reference points during construction.

### C. COORDINATION OF TRADES AND SUB-CONTRACTORS

- 1. The Contractor shall be responsible for the proper fitting of all work and for the coordination of the operation of all trades, sub-contractors, or materials and men engaged upon the work. He shall be prepared to guarantee to each of his subcontractors the dimensions which may be required for fitting of their work to all surrounding work and shall do, or cause his agents to do, all cutting, fitting, adjusting and patching necessary to make the several parts of the work come together properly and fit the work to receive, or be received by that of other contractors.
- 2. When two or more prime contracts are being executed at one time in such manner that the work on one contract may interfere with the work of another, the Owner's Representative shall decide which contractor shall cease work and which shall continue, or whether the work on both contracts may progress at the same time and in what manner.
  - a) The Contractor shall not cause any unnecessary hindrance or delay to any other contractors on the premises, and shall be responsible for all damages done to the work of other contractors caused by him or by his employees.

### D. REFERENCE AND CONTROL POINTS PROVIDED BY OWNER

In addition to layout procedures provided by the Contractor for proper performance of the Contractor's responsibilities:

- 1. Locate and protect existing control points before starting work on the site.
- 2. Preserve permanent reference points during progress of the Work.
- 3. Do not change or relocate reference points or items of the Work without specific approval from the Owner's Representative.
- 4. Promptly advise the Owner's Representative when a reference point is lost or destroyed, or requires relocation because of other changes in the Work.
- 5. Upon direction of the Owner's Representative, require the field engineer to replace reference stakes or markers.
- 6. Locate such replacement according to the original survey control.

- E. REFERENCE AND CONTROL POINTS PROVIDED BY THE CONTRACTOR
1. If not provided by the Owner (and defined as the responsibility of the Owner in the Contract Documents) establish sufficient general reference points in the form of permanent bench marks, grade stakes or other markers as will enable the Contractor to proceed with the Work.
  2. The Contractor may lay out his own work, or cause the Work to be laid out by a qualified party such as a Registered Land Surveyor or a Professional Engineer, as necessary.
  3. The Contractor shall establish and be responsible for all lines, elevations and measurements of the structure utilities, installations, and other Work executed by him under the contract.
    - a) Exercise proper precautions to verify the figures and dimensions shown on the drawings before laying out the work; be responsible for any error resulting from failure to exercise such precaution.

#### **SECTION 017329 - CUTTING AND PATCHING**

- A. CHASES AND OPENINGS
1. The Contractor is responsible for the provision and/or coordination of all chases, openings and recesses required by work of his own forces, subcontractors or separate contractors.
    - a) Each subcontractor or separate contractor shall be responsible for furnishing advance information to the General Contractor as to exact dimensions and locations of such chases and openings, and shall provide and set in place all necessary sleeves, inserts and forms.
    - b) Openings shall be accurately located, neatly cut, and no larger than necessary. Provide all rebuilding, patching, refinishing and painting required to restore the construction to original condition.
  2. Provide shoring, bracing, and support as required to maintain structural integrity of the project.
  3. Provide protection from cutting and patching operations as required for other portions of the project; protect the Work and existing improvements in proximity to the cutting and patching operations from the elements.

#### **SECTION 017419 – CONSTRUCTION WASTE MANAGEMENT & DISPOSAL**

- A. PERIODIC CLEANING
1. Each Contractor shall clean up after his own work as needed and/or ensure that sub-contractors clean up after their work and remove accumulations of waste, debris, and rubbish caused by construction operations.
    - a) Remove all waste, rubbish and debris on a daily basis (if needed), as they accumulate, and after completion of the Work.
- B. PROJECT COMPLETION
1. On completion of the project, the entire job shall be cleaned up and left in perfect condition, including adjacent areas.
    - a) Marred surfaces shall be patched or repaired and touched up to match adjoining surfaces.
    - b) All rubbish shall be removed from the site before acceptance.
    - c) New surfaces and/or exposed elements of the Work shall be protected from stain and marring. These surfaces shall be cleaned to the satisfaction of the Owner's Representative or replaced if said stains or mars are unable to be completely removed
- C. GOVERNMENTAL REGULATIONS
1. Conduct cleaning and disposal operations in compliance with Federal, State and local ordinances and anti-pollution laws and regulations.

#### **SECTION 017700 - PROJECT CLOSEOUT**

- A. GENERAL
- Work includes:
1. Substantial Completion.
  2. Final Completion
  3. Closeout submittals.
  4. Instruction
- B. SUBSTANTIAL COMPLETION
1. Prepare and submit the list ("punch-list") required by the first sentence of Paragraph 9.8.2 of the General Conditions.
    - a) Within a reasonable time after receipt of the list the Owner's Representative will inspect to determine status of completion. Should the Owner's Representative determine that the Work is not Substantially Complete:
      - 1) The Owner's Representative will so notify the Contractor, in writing, giving the reasons therefore.
      - 2) Remedy the deficiencies and notify the Owner's Representative when ready for reinspection.
      - 3) The Owner's Representative will reinspect the Work.
    - b) When the Owner's Representative concurs that the Work is Substantially Complete:
      - 1) The Owner's Representative will prepare a "Certificate of Substantial Completion" on AIA form G704, accompanied by the Contractor's list of items to be completed or corrected, as verified and approved by the Owner's Representative.
      - 2) The Owner's Representative will submit the Certificate to the Owner and to the Contractor for their written acceptance of the responsibilities assigned to them in the Certificate.
- C. FINAL COMPLETION
1. Prepare and submit the notice required by the first sentence of Paragraph 9.10.1 of the General Conditions.
    - a) Verify that the Work is complete including, but not necessarily limited to, the items mentioned in Paragraph 9.8.2 of the General Conditions. Certify that:
      - 1) the Contract Documents have been reviewed;
      - 2) the Work has been inspected for compliance with the Contract Documents;
      - 3) the Work has been completed in accordance with the Contract Documents;
      - 4) equipment and systems have been tested as required, and are operational;
      - 5) the Work is completed and ready for final inspection.



- b) The Owner's Representative will make a final inspection to verify status of completion and if all "punch-list" items have been completed, and upon receipt of the Contractor's Final Application for Payment, issue a Certificate of Final Completion. Should the Owner's Representative determine that the Work is incomplete or defective:
  - 1) The Owner's Representative will so notify the Contractor, in writing, listing the incomplete or defective work.
  - 2) Remedy the deficiencies promptly, and notify the Owner's Representative when ready for reinspection.
- c) **FINAL APPLICATION FOR PAYMENT**
  - 1) Submit a final Application for Payment to the Owner's Representative, showing all adjustments to the Contract Sum.
  - 2) If needed, the Owner's Representative will prepare a final Change Order showing adjustments to the Contract Sum which were not made previously by Change Orders.
  - 3) Include final waivers of lien from the Contractor, sub-contractors, and major suppliers.
  - 4) Final payment will not be released until all close-out submittals have been made, final cleaning has been performed, and required instruction(s) to Owner's personnel have been accomplished.

#### D. CLOSEOUT SUBMITTALS

- 1. When the Owner's Representative determines that the Work is acceptable under the Contract Documents, he will request the Contractor to make closeout submittals. Closeout submittals include, but are not necessarily limited to:
  - a) Project record documents described in "Section 017839".
  - b) Operation and maintenance manuals/data as described in "Section 017823".
  - c) Warranties and bonds as described in "Section 016000".
  - d) Keys and keying schedule;
  - e) Spare parts and materials extra stock;
  - f) Evidence of compliance with requirements of governmental agencies having jurisdiction including, but not necessarily limited to:
    - 1) Certificates of Inspection, as required
    - 2) Certificate(s) of Occupancy
  - g) Certificates of Insurance for products and completed operations;
  - h) Evidence of payment and release of liens.
    - 1) Consent of Surety to Final Payment
    - 2) Contractor's Final Waiver of Lien
    - 3) Separate releases or Waivers of Lien for sub-contractors, suppliers and others with lien rights against the Owner, together with a list of those parties.
  - i) List of subcontractors, service organizations, and principal vendors, including names, addresses, and telephone numbers where they can be reached for emergency service at all times including nights, weekends, and holidays.

### SECTION 017823 - OPERATING/MAINTENANCE MANUALS & INSTRUCTION

#### A. GENERAL

- 1. Compile operating/product data and related information appropriate for Owner's maintenance and operation of products and equipment provided under the Contract.
- 2. Instruct Owner's personnel in operation and maintenance of products, equipment and systems.
- 3. **OPERATIONS AND MAINTENANCE DATA REQUIRED:**
  - a) Operating and maintenance manuals are required for each area of Work which is listed below, if that area of Work is included within the scope of Work of the project:
    - 1) HVAC
    - 2) Plumbing – including water supply, sewage and waste disposal
    - 3) Electrical
    - 4) Landscape irrigation system
    - 5) Fire sprinkler system
    - 6) Communications equipment and systems

#### B. OPERATIONS/MAINTENANCE MANUALS - FORM OF SUBMITTAL

- 1. Prepare operating and maintenance manuals in the form of an instructional manual, utilizing heavy-duty, durable 3-ring vinyl covered loose-leaf binders, for use by the Owner's operating personnel. Organize into suitable sets of manageable size. Where possible, assemble instructions for similar equipment into a single binder. Provide when drawings or diagrams are required as part of the manual.
- 2. Provide sturdy manila or kraft envelope, accordion type file folder, or cardboard file boxes, properly labeled, of sufficient size to contain all submittals.
- 3. Submit one copy of data in final form at least fifteen days before final inspection. This copy will be returned within fifteen days after final inspection, with comments. After final inspection make corrections or modifications to comply with the Owner's Representative's comments and submit three copies of each approved manual to the Owner's Representative
- 4. **WARRANTIES, BONDS AND SERVICE CONTRACTS**
  - a) Provide a copy of each warranty, bond or service contract in the appropriate manual for the information of the Owner's operating personnel. Provide written data outlining procedures to be followed in the event of product failure. List circumstances and conditions that would affect validity of the warranty or bond. Provide list for each product containing name, address, and phone number of:
    - 1) Contractor.
    - 2) Subcontractor.
    - 3) Maintenance contractor, as appropriate.
    - 4) Local supply source for parts and replacement.
  - b) Identify area of responsibility of each contractor.

C. MANUAL FOR MATERIALS AND FINISHES

1. Submit two (2) copies of complete manual in final form.
2. Refer to individual Specification Sections for additional requirements on care and maintenance of materials and finishes.
3. Content for products, applied materials and finishes:
  - a) Manufacturer's data, giving full information on products.
    - 1) Catalog number, size, composition.
    - 2) Color and texture designations.
    - 3) Information for re-ordering special-manufactured products.
4. Instructions for care and maintenance.
  - a) Manufacturer's recommendations for types of cleaning agents and methods.
  - b) Cautions against cleaning agents and methods detrimental to product.
  - c) Recommended cleaning and maintenance schedule.
5. Moisture-Protection and Weather-Exposed Products: Provide complete manufacturer's data with instructions on inspection, maintenance and repair of products exposed to the weather or designed for moisture-protection purposes.
6. Manufacturer's Data: Provide manufacturer's data giving detailed information, including the following, as applicable:
  - a) Applicable standards.
  - b) Chemical composition.
  - c) Installation details.
  - d) Inspection procedures.
  - e) Maintenance information.
  - f) Repair procedures.

D. INSTRUCTION

1. Instruct the Owner's personnel in proper operation and maintenance of systems, equipment, and similar items which were provided as part of the Work including, but not limited to;
  - a) Mechanical
  - b) Water supply
  - c) Electrical service/distribution and lighting
  - d) Other items or systems as required in individual sections of the Technical Specifications
2. Instructions for the Owner's Personnel: For instruction of the Owner's operating and maintenance personnel, use experienced instructors thoroughly trained and experienced in the operation and maintenance of the equipment or system involved.

**SECTION 017839 - PROJECT RECORD DOCUMENTS (AS-BUILTS)**

A. DOCUMENTS REQUIRED AT SITE

1. The Contractor shall maintain at the job site one copy of all Drawings, Specifications, Addenda, approved Shop Drawings, Change Orders, and other Contract modifications.
  - a) Each of these project record documents shall be clearly marked "**Project Record Copy**"
  - b) Shall be maintained in good condition
  - c) shall be available at all times for inspection by the Park District, and shall not be used for construction purposes.

B. Project-record drawings shall be marked up to show significant changes made during construction progress, referenced to visible and accessible features of the structures. Project-record drawings shall be kept current and no work shall be concealed until required information has been recorded.

C. Record-documents shall be submitted in satisfactory condition to the Park District at the completion of the project. **FINAL COMPLETION OF THE PROJECT WILL NOT BE ATTAINED, AND FINAL PAYMENT WILL BE WITHHELD, UNTIL PROJECT "AS-BUILTS" ARE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.**

END OF GENERAL REQUIREMENTS

## **SECTION 024119**

### **SELECTIVE DEMOLITION**

#### **PART 1 - GENERAL**

##### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 "General Requirements and Covenants" from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

##### **1.2 SUMMARY**

###### **A. Section Includes:**

- 1. Demolition and removal of Pavement, Curb & Gutters, Inlets, & Storm Pipes.
- 2. Salvage of existing items to be reused or recycled.

###### **B. Related Requirements:**

- 1. Section 311000 "Site Clearing" for site clearing and removal of above- and below-grade improvements not part of selective demolition.

##### **1.3 DEFINITIONS**

- A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be salvaged or reinstalled.
- B. Remove and Salvage: Detach items from existing construction, in a manner to prevent damage, and deliver to Owner.
- C. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.
- D. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

##### **1.4 MATERIALS OWNERSHIP**

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.

1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

#### 1.5 PREINSTALLATION MEETINGS

- A. Predemolition Conference: Conduct conference at Project Site.
  1. Inspect and discuss condition of construction to be selectively demolished.
  2. Review structural load limitations of existing structures & roads.
  3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
  4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
  5. Review areas where existing construction is to remain and requires protection.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Schedule of Selective Demolition Activities: Indicate the following:
  1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
  2. Interruption of utility services. Indicate how long utility services will be interrupted.
  3. Coordination for shutoff, capping, and continuation of utility services.
- B. Predemolition Photographs or Video: Show existing conditions of adjoining construction, including finish surfaces that might be misconstrued as damage caused by demolition operations.
- C. Warranties: Documentation indicating that existing warranties are still in effect after completion of selective demolition.

#### 1.7 CLOSEOUT SUBMITTALS

- A. Inventory: Submit a list of items that have been removed and salvaged.

#### 1.8 FIELD CONDITIONS

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Notify Engineer of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
  1. Hazardous materials will be removed by Owner before start of the Work.

2. If suspected hazardous materials are encountered, do not disturb; immediately notify Engineer and Owner. Hazardous materials will be removed by Owner under a separate contract.

D. Storage or sale of removed items or materials on-site is not permitted.

E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

1. Maintain fire-protection facilities in service during selective demolition operations.

## 1.9 COORDINATION

A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

A. Verify that hazardous materials have been remediated before proceeding with demolition operations.

B. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs or video.

1. Inventory and record the condition of items to be removed and salvaged. Provide photographs or video of conditions that might be misconstrued as damage caused by salvage operations.

### 3.2 SEDIMENT CONTROL

A. Install temporary erosion and sediment control measures before the start of any demolition.

### 3.3 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.

- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.

- 1. Arrange to shut off utilities with utility companies.
  - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
  - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.

### 3.4 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent areas to remain.
  - 1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied areas.
  - 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage.
- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
  - 1. Strengthen or add new supports when required during progress of selective demolition.
- C. Remove temporary barricades and protections where hazards no longer exist.

### 3.5 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
  - 1. Proceed with selective demolition systematically, from higher to lower level.
  - 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
  - 3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
  - 4. Do not use cutting torches until work area is cleared of flammable materials. Maintain portable fire-suppression devices during flame-cutting operations.
  - 5. Maintain adequate ventilation when using cutting torches.

6. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
  7. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
  8. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads.
  9. Dispose of demolished items and materials promptly.
- B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
- C. Removed and Salvaged Items:
1. Clean salvaged items.
  2. Pack or crate items after cleaning. Identify contents of containers.
  3. Store items in a secure area until delivery to Owner.
  4. Transport items to Owner's storage area off-site.
  5. Protect items from damage during transport and storage.
- D. Removed and Reinstalled Items:
1. Clean and repair items to functional condition adequate for intended reuse.
  2. Pack or crate items after cleaning and repairing. Identify contents of containers.
  3. Protect items from damage during transport and storage.
  4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
- E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Engineer, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

### 3.6 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove demolition waste materials from Project site:
1. Do not allow demolished materials to accumulate on-site.
  2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn demolished materials.

### 3.7 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119



## **SECTION 311000**

### **SITE CLEARING**

#### **PART 1 - GENERAL**

##### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 "General Requirements and Covenants" from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

##### **1.2 SUMMARY**

- A. Section Includes:

- 1. Protecting existing vegetation to remain.
  - 2. Removing existing vegetation.
  - 3. Clearing and grubbing.
  - 4. Stripping and stockpiling topsoil.
  - 5. Removing above- and below-grade site improvements.
  - 6. Temporary erosion and sedimentation control.

- B. Related Requirements:

- 1. Section 329200 "Turf and Grasses" for finish grading in turf and grass areas, including preparing and placing planting soil for turf areas.

##### **1.3 DEFINITIONS**

- A. Subsoil: Soil beneath the level of subgrade; soil beneath the topsoil layers of a naturally occurring soil profile, typified by less than 1 percent organic matter and few soil organisms.
- B. Surface Soil: Soil that is present at the top layer of the existing soil profile. In undisturbed areas, surface soil is typically called "topsoil," but in disturbed areas such as urban environments, the surface soil can be subsoil.
- C. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil; the zone where plant roots grow.
- D. Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction and indicated on Drawings.
- E. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

#### 1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

#### 1.5 MATERIAL OWNERSHIP

- A. Except for materials indicated to be stockpiled or otherwise remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Existing Conditions: Documentation of existing trees and plantings, adjoining construction, and site improvements that establishes preconstruction conditions that might be misconstrued as damage caused by site clearing.
  - 1. Use sufficiently detailed photographs or video recordings.
  - 2. Include plans and notations to indicate specific wounds and damage conditions of each tree or other plant designated to remain.
- B. Record Drawings: Identifying and accurately showing locations of capped utilities and other subsurface structural, electrical, and mechanical conditions.
- C. Burning: Will not be allowed at project site.

#### 1.7 QUALITY ASSURANCE

- A. Topsoil Stripping and Stockpiling Program: Prepare a written program to systematically demonstrate the ability of personnel to properly follow procedures and handle materials and equipment during the Work. Include dimensioned diagrams for placement and protection of stockpiles.

#### 1.8 FIELD CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
  - 2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.
- B. Salvageable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises.
- C. Utility Locator Service: Notify **J.U.L.I.E.** for area where Project is located before site clearing.
- D. Do not commence site clearing operations until temporary erosion- and sedimentation-control measures are in place.

- E. Soil Stripping, Handling, and Stockpiling: Perform only when the soil is dry or slightly moist.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Section 312000 "Earth Moving."
  - 1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Verify that trees, shrubs, and other vegetation to remain or to be relocated have been flagged and that protection zones have been identified and enclosed.
- C. Protect existing site improvements to remain from damage during construction.
  - 1. Restore damaged improvements to their original condition, as acceptable to Owner.

### 3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.
- B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
- D. Remove erosion and sedimentation controls, and restore and stabilize areas disturbed during removal.

### 3.3 TREE AND PLANT PROTECTION

- A. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations according to requirements in Section 015639 "Temporary Tree and Plant Protection."

### 3.4 EXISTING UTILITIES

- A. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others, unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
  - 1. Notify Engineer not less than two days in advance of proposed utility interruptions.
  - 2. Do not proceed with utility interruptions without Engineer's written permission.
- B. Excavate for and remove underground utilities indicated to be removed.

### 3.5 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
  - 1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
  - 2. Grind down stumps and remove roots larger than 2 inches in diameter, obstructions, and debris to a depth of 18 inches below exposed subgrade.
  - 3. Use only hand methods or air spade for grubbing within protection zones.
  - 4. Chip removed tree branches and dispose of off-site.
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
  - 1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches, and compact each layer to a density equal to adjacent original ground.

### 3.6 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil to depth of 6 inches in a manner to prevent intermingling with underlying subsoil or other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsoil or other materials. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.
  - 1. Do not stockpile topsoil within protection zones.
  - 2. Stockpile surplus topsoil to allow for respreading deeper topsoil.

### 3.7 SITE IMPROVEMENTS

- A. Remove existing below-grade improvements as indicated and necessary to facilitate new construction.
- B. Remove inlets, pipes, paving, curbs, gutters, and aggregate base as indicated.
  - 1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut along line of existing pavement to remain before removing adjacent existing pavement. Saw-cut faces vertically.
  - 2. Paint cut ends of steel reinforcement in concrete to remain with two coats of antirust coating, following coating manufacturer's written instructions. Keep paint off surfaces that will remain exposed.

### 3.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.

END OF SECTION 311000

## **SECTION 312000**

### **EARTH MOVING**

#### **PART 1 - GENERAL**

##### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 "General Requirements and Covenants" from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.
- B. A geotechnical report has been prepared for this Project and is available for information only. The opinions expressed in this report are those of a geotechnical engineer and represent interpretations of subsoil conditions, tests, and results of analyses conducted by a geotechnical engineer. Owner is not responsible for interpretations or conclusions drawn from this data. In case of conflict between specifications and geotechnical report, stricter provision shall control unless approved otherwise by the engineer.

##### **1.2 SUMMARY**

- A. Section Includes:
  - 1. Excavating and filling for rough grading the Site.
  - 2. Preparing subgrades for pavements, turf and grasses, and plants.
  - 3. Subbase course for concrete curb and gutter.
  - 4. Subbase course and base course for asphalt paving.
  - 5. Subsurface drainage backfill for walls and trenches.
  - 6. Excavating and backfilling trenches for utilities and pits for buried utility structures.
- B. Related Requirements:
  - 1. Section 311000 "Site Clearing" for site stripping, grubbing, stripping and stockpiling topsoil, and removal of above- and below-grade improvements and utilities.
  - 2. Section 312319 "Dewatering" for lowering and disposing of ground water during construction.
  - 3. Section 315000 "Excavation Support and Protection" for shoring, bracing, and sheet piling of excavations.
  - 4. Section 329200 "Turf and Grasses" for finish grading in turf and grass areas, including preparing and placing planting soil for turf areas.

##### **1.3 DEFINITIONS**

- A. Backfill: Soil material or controlled low-strength material used to fill an excavation.
  - 1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.

2. Final Backfill: Backfill placed over initial backfill to fill a trench.
- B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.
- C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.
- D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
- E. Drainage Course: Aggregate layer that allow flow of water for drainage purposes.
- F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
  1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Engineer. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
  2. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Engineer. Unauthorized excavation, as well as remedial work directed by Engineer, shall be without additional compensation.
- G. Fill: Soil materials used to raise existing grades.
- H. Subbase Course: Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement, or aggregate layer placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.
- I. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.
- J. Utilities: On-site underground pipes, conduits, ducts, and cables as well as underground services within buildings.
- K. Protection zone: Area immediately adjacent to limit of construction to be protected against construction related damages; such as plants, turf, tress, etc..

#### 1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct preexcavation conference at Project site.
  1. Review methods and procedures related to earthmoving, including, but not limited to, the following:
    - a. Personnel and equipment needed to make progress and avoid delays.
    - b. Coordination of Work with utility locator service.
    - c. Coordination of Work and equipment movement with the locations of tree- and plant-protection zones.
    - d. Extent of trenching by hand or with air spade.
    - e. Field quality control.

## 1.5 ACTION SUBMITTALS

- A. Product Data: For each type of the following manufactured products required:
  - 1. Geotextiles.
  - 2. Controlled low-strength material, including design mixture.
  - 3. Warning tapes.
- B. Samples for Verification: For the following products, in sizes indicated below:
  - 1. Geotextile: 12 by 12 inches.
  - 2. Warning Tape: 12 inches long; of each color.
- C. Soil Source: For final 9" of topsoil cover:
  - 1. Soil: Top 9" of topsoil cover must be provided from a site free of noxious weeds meeting conditions of Paragraph 2.1 L. Provide site source details including address and photographs of proposed site. Site may be reviewed by the Illinois Nature Preserve Commission for permissibility.

## 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified testing agency.
- B. Material Test Reports: For each borrow soil material proposed for fill and backfill as follows:
  - 1. Classification according to ASTM D 2487.
  - 2. Laboratory compaction curve according to ASTM D 698.
- C. Preexcavation Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by earth-moving operations. Submit before earth moving begins.

## 1.7 QUALITY ASSURANCE

- A. The General Contractor will engage a soil testing and inspection service, to include testing soil materials proposed for use in the Work and quality control testing during earthwork operations.
  - 1. Geotechnical Testing Agency Qualifications: Qualified according to ASTM E 329 and ASTM D 3740 for testing indicated.

## 1.8 FIELD CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth-moving operations.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.



2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.
- B. Utility Locator Service: Notify **J.U.L.I.E.** for area where Project is located before beginning earth-moving operations.
  - C. Do not commence earth-moving operations until temporary site fencing and erosion- and sedimentation-control measures specified in the plans are in place.
  - D. Do not commence earth-moving operations until plant-protection measures are in place.
  - E. The following practices are prohibited without the owners written consent within protection zones:
    1. Storage of construction materials, debris, or excavated material.
    2. Parking vehicles or equipment.
    3. Foot traffic.
    4. Erection of sheds or structures.
    5. Impoundment of water.
    6. Excavation or other digging unless otherwise indicated.
    7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.
  - F. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.

## PART 2 - PRODUCTS

### 2.1 SOIL MATERIALS

- A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations. Do not excavate beyond project limits without written confirmation from Engineer.
- B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487 or a combination of these groups; free of rock or gravel larger than 2 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.
  1. Cohesive soil possessing a Plasticity Index of at least 15 with a minimum 85 percent of the soil passing #200 Sieve.
- C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487 or a combination of these groups.
  1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.
- D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940/D 2940M; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

- E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 294/D 2940M; with at least 95 percent passing a 1-1/2-inch sieve and not more than 8 percent passing a No. 200 sieve.
- F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940/D 2940M; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve (CA-11).
- G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940/D 2940M; except with 100 percent passing a 1-inch sieve and not more than 8 percent passing a No. 200 sieve (CA-16).
- H. Drainage Course: Narrowly graded mixture of crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and zero to 5 percent passing a No. 8 sieve.
- I. Filter Material: Narrowly graded mixture of natural or crushed gravel, or crushed stone and natural sand; ASTM D 448; coarse-aggregate grading Size 67; with 100 percent passing a 1-inch sieve and zero to 5 percent passing a No. 4 sieve.
- J. Sand: ASTM C 33/C 33M; fine aggregate.
- K. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.
- L. Topsoil: ASTM D 5268, free of stones 1" or larger. Site source must be free of noxious weeds.

## 2.2 GEOTEXTILES

- A. Subsurface Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
  - 1. Survivability: As follows:
    - a. Grab Tensile Strength: 157 lbf; ASTM D 4632.
    - b. Sewn Seam Strength: 142 lbf; ASTM D 4632.
    - c. Tear Strength: 56 lbf; ASTM D 4533.
    - d. Puncture Strength: 56 lbf; ASTM D 4833.
  - 2. Apparent Opening Size: No. 60 sieve, maximum; ASTM D 4751.
  - 3. Permittivity: 0.2 per second, minimum; ASTM D 4491.
  - 4. UV Stability: 50 percent after 500 hours' exposure; ASTM D 4355.

## 2.3 CONTROLLED LOW-STRENGTH MATERIAL

- A. Controlled Low-Strength Material: Self-compacting, low-density, flowable concrete material produced from the following:
  - 1. Portland Cement: ASTM C 150/C 150M, Type II.
  - 2. Fly Ash: ASTM C 618, Class C or F.

3. Normal-Weight Aggregate: ASTM C 33/C 33M, 3/4-inch nominal maximum aggregate size.
4. Water: ASTM C 94/C 94M.
5. Air-Entraining Admixture: ASTM C 260/C 260M.

B. Produce low-density, controlled low-strength material with the following physical properties:

1. As-Cast Unit Weight: 30 to 36 lb/cu. ft. at point of placement, when tested according to ASTM C 138/C 138M.
2. Compressive Strength: 80 psi when tested according to ASTM C 495/C 495M.

## 2.4 ACCESSORIES

A. Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, 6 inches wide and 4 mils thick, continuously inscribed with a description of the utility; colored as follows:

1. Red: Electric.
2. Yellow: Gas, oil, steam, and dangerous materials.
3. Orange: Telephone and other communications.
4. Blue: Water systems.
5. Green: Sewer systems.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth-moving operations.
- B. Protect and maintain erosion and sedimentation controls during earth-moving operations.
- C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

### 3.2 DEWATERING

- A. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.
- B. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
  1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.

### 3.3 EXPLOSIVES

- A. Explosives: Do not use explosives.

### 3.4 EXCAVATION, GENERAL

- A. Classified Excavation: Excavate to subgrade elevations. Material to be excavated will be classified as earth and rock. Do not excavate rock until it has been classified and cross sectioned by Engineer. The Contract Sum will be adjusted for rock excavation according to unit prices included in the Contract Documents. Changes in the Contract Time may be authorized for rock excavation.
  - 1. Earth excavation includes excavating pavements and obstructions visible on surface; underground structures, utilities, and other items indicated to be removed; and soil, boulders, and other materials not classified as rock or unauthorized excavation.
    - a. Intermittent drilling; blasting, if permitted; ram hammering; or ripping of material not classified as rock excavation is earth excavation.

### 3.5 EXCAVATION FOR STRUCTURES

- A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
  - 1. Excavations for Footings, catch basins, and manholes: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.
- B. Excavations at Edges of Tree- and Plant-Protection Zones:
  - 1. Excavate by hand or with an air spade to indicated lines, cross sections, elevations, and subgrades. If excavating by hand, use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.

### 3.6 EXCAVATION FOR WALKS AND PAVEMENTS

- A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

### 3.7 EXCAVATION FOR UTILITY TRENCHES

- A. Excavate trenches to indicated gradients, lines, depths, and elevations.
- B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe or conduit unless otherwise indicated.

- C. Trench Bottoms: Excavate and shape trench bottoms to provide uniform bearing and support of pipes and conduit. Shape subgrade to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits. Remove projecting stones and sharp objects along trench subgrade.
  - 1. For pipes and conduit less than 6 inches in nominal diameter, hand-excavate trench bottoms and support pipe and conduit on an undisturbed subgrade.
  - 2. For pipes and conduit 6 inches or larger in nominal diameter, shape bottom of trench to support bottom 90 degrees of pipe or conduit circumference. Fill depressions with tamped sand backfill.
  - 3. For flat-bottomed, multiple-duct conduit units, hand-excavate trench bottoms and support conduit on an undisturbed subgrade.
  - 4. Excavate trenches 6 inches deeper than elevation required in rock or other unyielding bearing material to allow for bedding course.
- D. Trenches in Tree- and Plant-Protection Zones:
  - 1. Hand-excavate to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
  - 2. Do not cut main lateral roots or taproots; cut only smaller roots that interfere with installation of utilities.
  - 3. Cut and protect roots according to requirements in Section 015639 "Temporary Tree and Plant Protection."

### 3.8 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when approved by Engineer.
  - 1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Engineer.

### 3.9 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
  - 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

### 3.10 BACKFILL

- A. Place and compact backfill in excavations promptly, but not before completing the following:
  - 1. Construction below finish grade including, where applicable, subdrainage.

2. Surveying locations of underground utilities for Record Documents.
3. Testing and inspecting underground utilities.
4. Removing concrete formwork.
5. Removing trash and debris.
6. Removing temporary shoring, bracing, and sheeting.
7. Installing permanent or temporary horizontal bracing on horizontally supported walls.

B. Place backfill on subgrades free of mud, frost, snow, or ice.

### 3.11 UTILITY TRENCH BACKFILL

A. Place backfill on subgrades free of mud, frost, snow, or ice.

B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.

C. Backfill voids with satisfactory soil while removing shoring and bracing.

D. Initial Backfill:

1. Soil Backfill: Place and compact initial backfill of approved material, free of particles larger than 1 inch in any dimension, to a height of 6 inches over the pipe.
  - a. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of piping or conduit to avoid damage or displacement of piping or conduit.
2. Controlled Low-Strength Material: Place initial backfill of controlled low-strength material to a height of 12 inches over the pipe or conduit. Coordinate backfilling with utilities testing.

E. Final Backfill:

1. Soil Backfill: Place and compact final backfill of satisfactory soil to final subgrade elevation.
2. Controlled Low-Strength Material: Place final backfill of controlled low-strength material to final subgrade elevation.

F. Warning Tape: Install warning tape directly above utilities, 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.

### 3.12 SOIL FILL

A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.

B. Place and compact fill material in layers to required elevations as follows:

1. Under grass and planted areas, use satisfactory soil material, overlaid by 9" of topsoil.

2. Under walks and pavements, use satisfactory soil material.
- C. Place soil fill on subgrades free of mud, frost, snow, or ice.
- D. Place and spread topsoil as final 9" of fill to meet final grades.

### 3.13 SOIL MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
  1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
  2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

### 3.14 COMPACTION OF SOIL BACKFILLS AND FILLS

- A. Place backfill and fill soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment and not more than 4 inches in loose depth for material compacted by hand-operated tampers.
- B. Place backfill and fill soil materials evenly on all sides of structures to required elevations and uniformly along the full length of each structure.
- C. Compact soil materials to no less than 95 percent of maximum dry unit weight according to ASTM D 698 unless approved by the engineer.

### 3.15 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
  1. Provide a smooth transition between adjacent existing grades and new grades.
  2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

### 3.16 SUBSURFACE DRAINAGE

- A. Subdrainage Pipe: Specified in Section 334600 "Subdrainage."
- B. Subsurface Drain: Place subsurface drainage geotextile around perimeter of subdrainage trench. Place a 6-inch course of filter material on subsurface drainage geotextile to support subdrainage pipe. Encase subdrainage pipe in a minimum of 12 inches of filter material, placed in compacted layers 6 inches thick, and wrap in subsurface drainage geotextile, overlapping sides and ends at least 6 inches.

1. Compact each filter material layer to 90 percent of maximum dry unit weight according to ASTM D 698 with a minimum of two passes of a plate-type vibratory compactor.

### 3.17 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

- A. Place subbase course and base course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place subbase course and base course under pavements and walks as follows:
  1. Shape subbase course and base course to required crown elevations and cross-slope grades.
  2. Place subbase course and base course 6 inches or less in compacted thickness in a single layer.
  3. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
  4. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 698.

### 3.18 FIELD QUALITY CONTROL

- A. Special Inspections: Engineer will engage a qualified special inspector to perform the following special inspections:
  1. Determine prior to placement of fill that site has been prepared in compliance with requirements.
  2. Determine that fill material classification and maximum lift thickness comply with requirements.
  3. Determine, during placement and compaction, that in-place density of compacted fill complies with requirements.
- B. Testing Agency: Contractor will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
- C. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.
- D. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2937, and ASTM D 6938, as applicable. Tests will be performed at the following locations and frequencies:
  1. Trench Backfill: At each compacted initial and final backfill layer, at least one test for every 100 feet or less of trench length but no fewer than two tests.
- E. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.



### 3.19 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
  - 1. Scarify or remove and replace soil material to depth as directed by Engineer; reshape and recompact.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
  - 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

### 3.20 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

## PART 4 - GEOTECHNICAL REPORT

**TELEPHONE**

309-673-2131

TESTS • INVESTIGATIONS  
ANALYSIS • DESIGN • EVALUATIONS  
CONSULTATION • REPORTS • INSPECTIONS  
ARBITRATION • EXPERT WITNESS TESTIMONY

\*\*\*\*\*  
SOILS • PORTLAND CEMENT CONCRETE  
BITUMINOUS CONCRETE • STEEL  
ASPHALT • AGGREGATES • EMULSIONS  
POZZOLANIC MATERIALS • LIME

**WHITNEY & ASSOCIATES****INCORPORATED**

2406 West Nebraska Avenue  
PEORIA, ILLINOIS 61604-3193

**TELEFAX**

309-673-3050

GEOTECHNICAL ENGINEERING  
CONSTRUCTION QUALITY CONTROL  
SUBSURFACE EXPLORATIONS  
ENVIRONMENTAL INVESTIGATIONS

\*\*\*\*\*  
MONITORING WELL INSTALLATIONS  
BUILT-UP ROOF INVESTIGATIONS  
WELDER CERTIFICATIONS  
INSURANCE INVESTIGATIONS

July 17, 2015

Mr. Adrian Fernandez, E.I.T.  
Infrastructure Engineering, Inc.  
456 Fulton Street; Suite 104  
Peoria, Illinois 61602

Re: Geotechnical Engineering Report  
Of Site Investigation  
Detweiller Drive Slope  
Erosion Project  
Peoria, Illinois

Dear Mr. Fernandez:

This geotechnical engineering report presents the results of a subsurface soils and ground water investigation performed for the slope erosion adjacent to West Detweiller Drive in Peoria, Illinois. Included in this report are the results of our field and laboratory tests as well as a summary of the data that was obtained during the investigation. In addition, this engineering report includes our observations and comments regarding the subsurface and existing site conditions as well as remedial earthwork recommendations.

The area under investigation consists of the eroded drainage area located immediately north of the "Y" entrance intersection at the southwestern limits of Detweiller Park. This site investigation consisted of performing an exploratory boring adjacent to the current slope erosion on June 25, 2015, which extended to a depth of thirty-one (31) feet below the existing surface grades. In addition, two (2) hand auger borings extending to a depth of approximately eight (8) feet were

performed within the eroded area. During the drilling and sampling phase of the investigation, tests, visual classifications and analysis of the various soil types were performed by our personnel and their results were recorded on the enclosed Soil Boring Logs.

The soil samples obtained in the field were returned to our materials testing laboratory where they were subjected to engineering tests and evaluations. An analysis of the field and laboratory tests were conducted by our geotechnical engineers and this engineering report was prepared which presents our observations, comments and recommendations regarding the existing site conditions and the proposed improvements.

#### **INVESTIGATION AND TESTING**

The exploratory boring adjacent to Detweiller Drive was conducted with a truck-mounted, rotary auger drill rig using eight (8) inch diameter hollow stem, continuous flight auger attachments. Representative soil samples were retrieved at approximately two and one-half (2.5) feet intervals to a depth of fifteen (15) feet whereupon five (5) feet intervals were utilized until the exploratory boring was discontinued by our drill crew personnel. Standard split-barrel soil samplers were used to obtain the soil samples. In addition, the split-barrel soil samplers were used to determine the number of blows per foot "N" of standard penetration into the subsoils using a 140 pound, automatic hammer dropping 30 inches per stroke. The results of these standard penetration tests indicate a comparative consistency of the various soils and thereby provide a basis for estimating the relative shear strength and compressibility characteristics of the soil profile stratas.



The soil borings performed within the limits of the erosion were conducted with hand auger sampling equipment due to the terrain and limited access to this portion of the site. By using this sampling equipment, our drill crew was able to retrieve representative soil samples at continuous intervals which were then subjected to hand penetrometer readings and natural moisture content tests to aid in defining the integrity of the soils at these locations. In addition, the hand auger borings were utilized to determine if ground water was encountered.

The representative soil samples gathered during the field investigation were returned to our materials testing laboratory where they underwent further analysis, testing and some refined classification by our geotechnical engineers. From the information and data obtained in both the field and laboratory, recommendations regarding the subgrade conditions, potential construction problems and construction recommendations can be established by our engineering firm as well as the design engineers.

The soils were visually classified in accordance with the Unified Soil Classification System in conjunction with the United States Bureau of Soil and Chemistry classification system. The soils encountered in the borings have been described in accordance with the textural classification charts included in the Appendix of this report. Also included in the Appendix is a Soil Mechanics Classification sheet which will aid in clarifying the various soils. The different soil strata were visually classified in the field and further verification or modification of these classifications were made in our materials testing laboratory.

The representative cohesive soil samples obtained during the field investigation were tested in unconfined compression with the aid of a calibrated,

compression testing machine in conjunction with a hand penetrometer to determine their relative shear strength characteristics. Natural moisture content and dry density tests were also conducted on the representative soil samples obtained. The results of these field and laboratory tests are shown on the Soil Boring Logs included in the Appendix of this report.

The stratification as indicated on the Soil Boring Logs represents the subsurface conditions in the actual boring locations and other variations may occur throughout the site. The lines of demarcation represent the approximate boundary of the soil types although the transition may be gradual.

#### **SITE AND SUBSURFACE CONDITIONS**

In the area of Boring B-1 performed adjacent to Detweiller Drive, approximately six (6) inches of brown, Silty Clay Organic Topsoil was noted at the existing surface grades. The surface grades at HA-1 and HA-2 within the eroded area were void of vegetation and organic topsoil.

As may be observed from the enclosed Soil Boring Log for Boring B-1, cohesive fill or probable fill materials were noted to a depth of approximately twelve (12) feet below the existing surface grades. These materials were classified as Lean Clay With Sand (Clay Loam), Sandy Lean Clay (Sandy Clay) and Lean Clay (Silty Clay) soil types. Native, preconsolidated glacial till soils, classified as a Lean Clay With Sand, were encountered below the apparent fill materials and extended in depth until this boring was discontinued by our drill crew personnel. Lean Clay With Sand, glacial till soils were likewise encountered throughout the extent of Hand Auger Borings HA-1 and HA-2.



The consistency of the cohesive fill materials ranged from soft to medium whereas the glacial till soils were classified as very stiff to hard. Standard penetration tests, designated as "N" values, ranged from 3 to 6 blows per foot within the fill materials encountered near the existing surface grades and from 19 to 25 blows per foot within the glacial till soils encountered within the mid to lower extent of this boring.

A somewhat high range of natural moisture contents was recorded for the cohesive fill materials encountered during this investigation. The natural moisture contents of these soils ranged from 19 to 25 percent and would be considered above an estimated optimum moisture content range of approximately 16 to 19 percent for the typical soil types encountered. Upon encountering the glacial till soils, natural moisture contents ranging from 12 to 16 percent were recorded and these soils would be considered near to slightly above their respective optimum moisture content range of approximately 11 to 14 percent

Representative samples of the soils encountered in the field are presently being stored in our materials testing laboratory for possible future reference and analysis, if desired. Unless our firm is notified to the contrary, all soil samples will be disposed of after approximately four (4) months.

It may also be observed from the Soil Boring Logs that ground water was not encountered during the scope of this investigation. The presence of ground water was checked upon completion of the drilling operations and after a brief time lapse. The bore holes were subsequently backfilled and capped which prevented long-term ground water readings. These readings and site observations indicate that the ground water levels currently appear to exist at a depth beyond the scope

of this investigation. Some fluctuation in the ground water levels may be anticipated however due to typical seasonal variations.

### **DESIGN CONSIDERATIONS**

It is our understanding that inadequate surface water management has at some time in the past initiated erosion on the east side of Detweiller Park which subsequently dislodged the existing drainage conduit and thereby deposited storm water runoff into this area. The subsequent erosion and site deterioration has resulted in the accumulation of trees, drainage culverts, soil and other materials into this area.

It is also our understanding that the proposed drainage improvements in this area are to include the installation of curb side inlets on both sides of Detweiller Drive which will be connected to a manhole on the east side of the roadway. From this manhole, the storm water will be conveyed to two (2) manholes approximately 100 feet to the northeast where the storm waters will be deposited into a riprap energy dissipater.

### **RECOMMENDATIONS**

The following recommendations are made in regard to the proposed site development. These recommendations are based on the data obtained in the subsurface investigation and the laboratory tests which were conducted on select, representative soil samples.

During the initial site development, it is essential that all debris and loose soil be removed from within the eroded area to provide a stable base for the proposed earthwork operations. Should any seepage water accumulations from the



native soils be observed during the clearing operations, the geotechnical engineer shall be contacted for recommendations regarding the establishment of internal drainage within the native soils.

It is recommended that the soils required to reestablish the proposed subgrade elevations consist of select, cohesive soils possessing a Plasticity Index of at least 15 with at least 85 percent of the soil passing the #200 sieve. It is also recommended that these soils be placed in approximately eight (8) inch thick layers and are compacted to at least 95 percent of standard Proctor maximum dry density (ASTM D-698).

It is recommended that the storm sewer bedding and backfill to at least six (6) inches above the drainage pipes consist of CA-11 or CA-16 crushed limestone aggregates which shall be consolidated with vibratory compaction equipment. The remaining backfill required shall consist of the cohesive soils consisting of and compacted as discussed above.

Upon completion of the earthwork operations, it is recommended that a minimum of six (6) inches of organic topsoil be spread and lightly compacted. It is also recommended that the topsoil be fertilized and seeded with a slope mixture appropriate for the anticipated sunlight conditions. It is also our understanding that an erosion control blanket will be used to minimize, if not eliminate, erosion of the prepared seedbed.

### **SUMMARY**

In conclusion, a subsurface exploration and evaluation of the soil and ground water conditions has been conducted for the Detweiller Drive Slope Erosion



Project in Peoria, Illinois. A summary of the existing site conditions has been presented and potential design and construction considerations have been discussed in some detail. The exploration and analyses of the subsurface conditions presented in this engineering report are considered of sufficient detail and scope to form a reasonable basis for site evaluation. The observations and comments submitted within this geotechnical engineering report are based upon the subsurface soil and ground water information which was obtained as well our site observations.

Should additional information be desired in regard to the subsurface conditions encountered at the referenced site, or if a more comprehensive evaluation of the enclosed data is desired from our geotechnical engineer, please do not hesitate to contact us at your convenience.

Respectfully submitted,

WHITNEY & ASSOCIATES



(By)

  
James R. Krusemark, P. E.

JRK:rma

Enclosures

**PROJECT**  
Detweiller Drive Slope  
Erosion Project

**PROJECT LOCATION**  
Peoria, Illinois

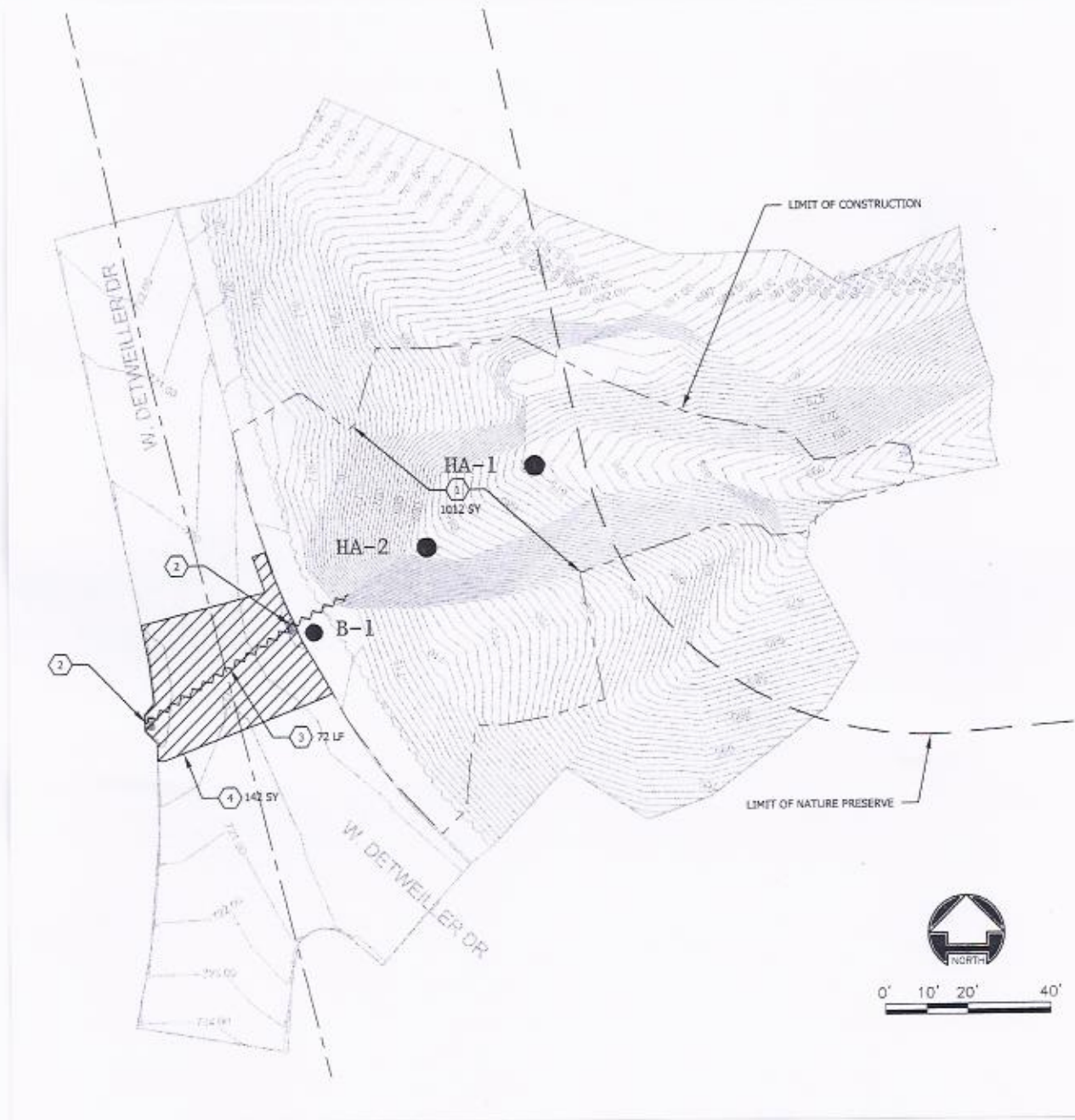


DATE July 20, 2015

W. & A. FILE NO. 6972

SCALE 1" = 40'±

PLOT PLAN



● Exploratory Soil Boring Locations  
(Site Plan Prepared By Infrastructures Engineering)

**WHITNEY & ASSOCIATES**  
PEORIA, ILLINOIS



BORING NO. B-01

DATE 06-25-15

W. &amp; A. FILE NO. 6972

SHEET 1 OF 3



# WHITNEY & ASSOCIATES

INCORPORATED

 2406 West Nebraska Avenue  
 PEORIA, ILLINOIS 61604

## BORING LOG

PROJECT DETWEILLER DRIVE SLOPE EROSION PROJECT

LOCATION Peoria, Illinois

BORING LOCATION See Plot Plan Sheet

DRILLED BY Feh

BORING TYPE Hollow Stem Auger

WEATHER CONDITIONS Partly Cloudy &amp; Mild

SOIL CLASSIFICATION SYSTEM USCS / USBSC

SEEPAGE WATER ENCOUNTERED AT ELEVATION None

GROUND SURFACE ELEVATION 720+

GROUND WATER ELEVATION AT - HRS. -

BORING DISCONTINUED AT ELEVATION 689+

GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Q <sub>p</sub>	Q <sub>u</sub>	D <sub>d</sub>	M <sub>c</sub>
Brown SILTY CLAY LOAM Organic Topsoil	6"						
Medium, Brown LEAN CLAY WITH SAND - CL (Clay Loam) Fill		SS	5	1.0	0.8	97	22
Soft, Light Brown And Gray-Brown SANDY LEAN CLAY - CL (Sandy Clay) Fill	5	SS	3	0.5	0.4	96	19
Medium, Brown LEAN CLAY WITH SAND - CL (Clay Loam) Fill		SS	4	1.0	0.7	96	23
Medium, Brown And Dark Brown LEAN CLAY - CL (Silty Clay) Fill	10	SS	6	1.0	0.8	94	25
Very Stiff, Gray-Brown LEAN CLAY WITH SAND And Fine-Grained Gravel - CL (Glacial Till)		SS	19	2.5	2.0	115	16
	15	SS	23	3.4	3.0	116	16
	20	SS	25	3.0	2.8	117	14
Very Stiff, Gray LEAN CLAY WITH SAND And Trace Of Fine-Grained Gravel - CL (Glacial Till)	25	SS	24	4.2	3.9	122	13
	30	SS	22	3.6	3.2	120	13
EXPLORATORY BORING DISCONTINUED							

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER  
FALLING 30 INCHES

SS - SPLIT SPOON SAMPLE

ST - SHELBY TUBE SAMPLE

Q<sub>p</sub> - CALIBRATED PENETROMETER READING - T.S.F.Q<sub>u</sub> - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.D<sub>d</sub> - NATURAL DRY DENSITY - P.C.F.M<sub>c</sub> - NATURAL MOISTURE CONTENT - %

BORING NO. HA-1

DATE 06-25-15

W. &amp; A. FILE NO. 6972

SHEET 2 OF 3


**WHITNEY & ASSOCIATES**  
 INCORPORATED

 2406 West Nebraska Avenue  
 PEORIA, ILLINOIS 61604
**BORING LOG**

PROJECT DETWEILLER DRIVE SLOPE EROSION PROJECT

LOCATION Peoria, Illinois

BORING LOCATION See Plot Plan Sheet.

DRILLED BY Fehl

BORING TYPE Hand Augers

WEATHER CONDITIONS Partly Cloudy &amp; Mild

SOIL CLASSIFICATION SYSTEM USCS / USBSC

SEEPAGE WATER ENCOUNTERED AT ELEVATION None

GROUND SURFACE ELEVATION 675+

GROUND WATER ELEVATION AT - HRS. -

BORING DISCONTINUED AT ELEVATION 667+

GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Q <sub>p</sub>	Q <sub>u</sub>	D <sub>d</sub>	M <sub>c</sub>
NONE							
Very Stiff, Gray LEAN CLAY WITH SAND - CL (Glacial Till)	02	HA	-	3.5	-	-	13
	04	HA	-	3.5	-	-	13
	06	HA	-	3.0	-	-	14
Hard, Gray LEAN CLAY WITH SAND - CL (Glacial Till)	08	HA	-	4.5	-	-	12
EXPLORATORY BORING DISCONTINUED							
	10						
	12						

 N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER  
 FALLING 30 INCHES

SS - SPLIT SPOON SAMPLE

ST - SHELBY TUBE SAMPLE

Q<sub>p</sub> - CALIBRATED PENETROMETER READING - T.S.F.Q<sub>u</sub> - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.D<sub>d</sub> - NATURAL DRY DENSITY - P.C.F.M<sub>c</sub> - NATURAL MOISTURE CONTENT - %
**WHITNEY & ASSOCIATES**  
 PEORIA, ILLINOIS



BORING NO. HA-2

DATE 06-25-15

W. &amp; A. FILE NO. 6972

SHEET 3 OF 3



# WHITNEY & ASSOCIATES

INCORPORATED

 2406 West Nebraska Avenue  
 PEORIA, ILLINOIS 61604

## BORING LOG

PROJECT DETWEILLER DRIVE SLOPE EROSION PROJECT

LOCATION Peoria, Illinois

BORING LOCATION See Plot Plan Sheet

DRILLED BY Fehl

BORING TYPE Hand Augers

WEATHER CONDITIONS Partly Cloudy &amp; Mild

SOIL CLASSIFICATION SYSTEM USCS / USBSC

SEEPAGE WATER ENCOUNTERED AT ELEVATION None

GROUND SURFACE ELEVATION 690+

GROUND WATER ELEVATION AT - HRS -

BORING DISCONTINUED AT ELEVATION 682+

GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Q <sub>p</sub>	Q <sub>u</sub>	D <sub>d</sub>	M <sub>c</sub>
NONE							
Very Stiff, Gray LEAN CLAY WITH SAND - CL (Glacial Till)		HA	-	3.0	-	-	13
	02						
		HA	-	4.0	-	-	12
	04						
		HA	-	2.8	-	-	13
	06						
		HA	-	3.2	-	-	13
	08						
EXPLORATORY BORING DISCONTINUED							
	10						
	12						

 N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER  
 FALLING 30 INCHES

SS - SPLIT SPOON SAMPLE

ST - SHELBY TUBE SAMPLE

Q<sub>p</sub> - CALIBRATED PENETROMETER READING - T.S.F.Q<sub>u</sub> - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.D<sub>d</sub> - NATURAL DRY DENSITY - P.C.F.M<sub>c</sub> - NATURAL MOISTURE CONTENT - %
 WHITNEY & ASSOCIATES  
 PEORIA, ILLINOIS

TELEPHONE  
309 673-2131

TESTS  
DESIGN  
REPORTS  
ANALYSIS  
INSPECTION  
CONSULTATION  
INVESTIGATIONS



# WHITNEY & ASSOCIATES INCORPORATED

2406 West Nebraska Avenue  
PEORIA, ILLINOIS 61604

**SPECIALISTS IN**  
SOILS - PORTLAND CEMENT CONCRETE  
STEEL - BITUMINOUS CONCRETE  
CONSTRUCTION MATERIALS  
AGGREGATES - ASPHALT - POZ-O-PAC  
  
SOILS AND GRAVEL SURVEYS  
MATERIALS QUALITY CONTROL  
SOIL MECHANICS AND  
FOUNDATION ENGINEERING  
DRILLING - CORING - TESTING

MAJOR DIVISIONS				GROUP SYMBOLS	DESCRIPTIONS		
COARSE - GRAINED SOILS (MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE)				GW	WELL - GRADED GRAVELS, GRAVEL - SAND MIXTURES		
					GP	POORLY - GRADED GRAVELS, GRAVEL - SAND MIXTURES	
						GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
							GC
				SANDS (MORE THAN 50% PASSING NO.4 SIEVE SIZE)	SW	WELL - GRADED SANDS, GRAVELLY SANDS	
						SP	POORLY - GRADED SANDS, GRAVELLY SANDS
					SM	SILTY - SANDS, SAND - SILT MIXTURES	
						SC	CLAYEY - SANDS, SAND - CLAY MIXTURES
FINE - GRAINED SOILS (MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SEVE SIZE)				ML	INORGANIC SILTS AND FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS		
					CL	INORGANIC CLAYS, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
						OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS
				SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50)	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SILTY SOILS, ELASTIC SILTS	
						CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
					OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, SILTS	
				HIGHLY ORGANIC SOILS	Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	



TELEPHONE  
309 673-2131

TESTS  
DESIGN  
REPORTS  
ANALYSIS  
INSPECTION  
CONSULTATION  
INVESTIGATIONS

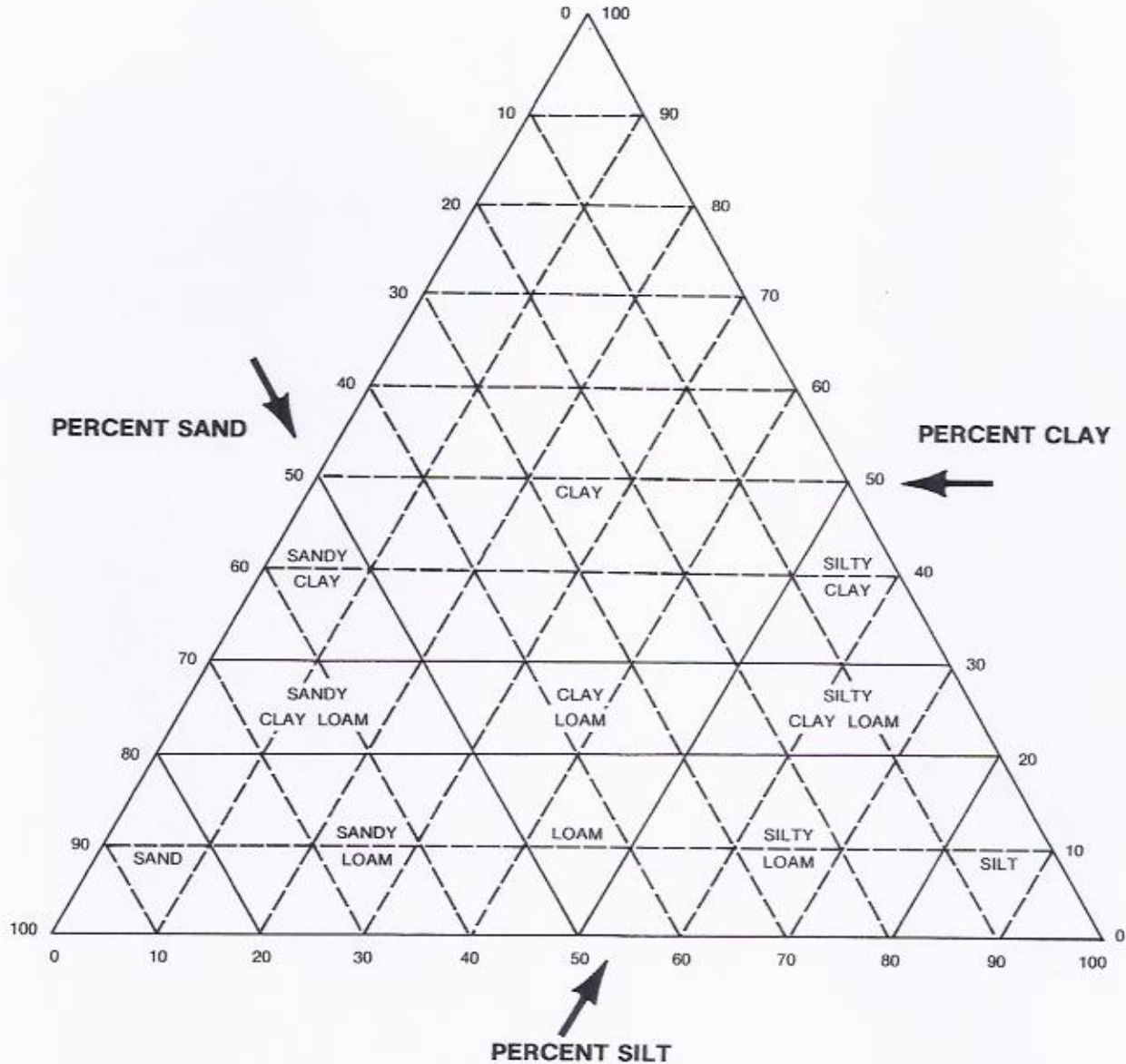


## WHITNEY & ASSOCIATES INCORPORATED

2406 West Nebraska Avenue  
PEORIA, ILLINOIS 61604

**SPECIALISTS IN**  
SOILS - PORTLAND CEMENT CONCRETE  
STEEL - BITUMINOUS CONCRETE  
CONSTRUCTION MATERIALS  
AGGREGATES - ASPHALT - POZ-O-PAC

SOILS AND GRAVEL SURVEYS  
MATERIALS QUALITY CONTROL  
SOIL MECHANICS AND  
FOUNDATION ENGINEERING  
DRILLING - CORING - TESTING



### TRIANGULAR TEXTURAL CLASSIFICATION CHART

DEVELOPED BY  
UNITED STATES BUREAU OF SOILS AND CHEMISTRY  
(U.S.B.S.C.)

WHITNEY & ASSOCIATES  
PEORIA, ILLINOIS

**TELEPHONE**

309-673-2131

TESTS \* INVESTIGATIONS  
ANALYSIS \* DESIGN \* EVALUATIONS  
CONSULTATION \* REPORTS \* INSPECTIONS  
ARBITRATION \* EXPERT WITNESS TESTIMONY  
\*\*\*\*\*

SOILS \* PORTLAND CEMENT CONCRETE  
BITUMINOUS CONCRETE \* STEEL  
ASPHALT \* AGGREGATES \* EMULSIONS  
POZZOLANIC MATERIALS \* LIME

**WHITNEY & ASSOCIATES****INCORPORATED**

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PEORIA, ILLINOIS 61604-3193

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GEOTECHNICAL ENGINEERING  
CONSTRUCTION QUALITY CONTROL  
SUBSURFACE EXPLORATIONS  
ENVIRONMENTAL INVESTIGATIONS  
\*\*\*\*\*

MONITORING WELL INSTALLATIONS  
BUILT-UP ROOF INVESTIGATIONS  
WELDER CERTIFICATIONS  
INSURANCE INVESTIGATIONS

**SOIL MECHANICS CLASSIFICATION SYSTEMS****TEXTURAL CLASSIFICATION**

DESCRIPTION	SIZE
BOULDERS	LARGER THAN 3.0 IN.
COARSE GRAVEL	0.75 IN. — 3.0 IN.
FINE GRAVEL	NO. 4 SIEVE — 0.75 IN.
COARSE SAND	NO. 10 SIEVE — NO. 4 SIEVE
MEDIUM SAND	NO. 40 SIEVE — NO. 10 SIEVE
FINE SAND	NO. 200 SIEVE — NO. 40 SIEVE
SILT	LESS THAN NO. 200 SIEVE — NONPLASTIC
CLAY	LESS THAN NO. 200 SIEVE — PLASTIC

**QUANTITY CLASSIFICATION**

DESCRIPTION	PERCENT
TRACE	0 - 5
SMALL AMOUNT	5 - 10
SOME	10 - 15
CONSIDERABLE	15 - 20
SUBORDINATE TEXTURAL CLASSIFICATION	OVER 20

**RELATIVE DENSITY CLASSIFICATION — COHESIONLESS SOILS**

N. BLOWS / FT.	RELATIVE DENSITY
0 - 4	VERY LOOSE
4 - 10	LOOSE
10 - 30	MEDIUM
30 - 50	DENSE
OVER 50	VERY DENSE

**\* CONSISTENCY CLASSIFICATION — COHESIVE SOILS**

N. BLOWS / FT.	CONSISTENCY	Q <sub>u</sub> , TONS / SQ. FT.
0 - 2	VERY SOFT	0.00 - 0.25
2 - 4	SOFT	0.25 - 0.50
4 - 8	MEDIUM	0.50 - 1.00
8 - 15	STIFF	1.00 - 2.00
15 - 30	VERY STIFF	2.00 - 4.00
OVER 30	HARD	OVER - 4.00

**\* NOTE:**

THIS CLASSIFICATION SYSTEM IS TO BE USED SOLELY AS A GUIDE AND IS NOT ADEQUATE FOR PURPOSES OF DESIGN.

**WHITNEY & ASSOCIATES**  
PEORIA, ILLINOIS



END OF SECTION 312000

## **SECTION 312319**

### **DEWATERING**

#### **PART 1 - GENERAL**

##### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 “General Requirements and Covenants” from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

##### **1.2 SUMMARY**

- A. Section includes construction dewatering.
- B. Related Requirements:
  - 1. Section 312000 "Earth Moving" for excavating, backfilling, site grading, and controlling surface-water runoff and ponding.
  - 2. Section 334600 "Subdrainage" for permanent foundation wall, underfloor, and footing drainage.

##### **1.3 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference: Conduct conference at Project site.
  - 1. Verify availability of Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - 2. Review condition of site to be dewatered including coordination with temporary erosion-control measures and temporary controls and protections.
  - 3. Review geotechnical report in section 312000 “Earth Moving.”
  - 4. Review proposed site clearing and excavations.
  - 5. Review existing utilities and subsurface conditions.
  - 6. Review observation and monitoring of dewatering system.

##### **1.4 ACTION SUBMITTALS**

- A. Shop Drawings: For dewatering system, prepared by or under the supervision of a qualified professional engineer.
  - 1. Include plans, elevations, sections, and details.
  - 2. Show arrangement, locations, and details of wells and well points; locations of risers, headers, filters, pumps, power units, and discharge lines; and means of discharge, control of sediment, and disposal of water.

3. Include layouts of piezometers and flow-measuring devices for monitoring performance of dewatering system.
4. Include written plan for dewatering operations including sequence of well and well-point placement coordinated with excavation shoring and bracings and control procedures to be adopted if dewatering problems arise.

## 1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For land surveyor and professional engineer.
- B. Field quality-control reports.
- C. Existing Conditions: Using photographs or video recordings, show existing conditions of adjacent construction and site improvements that might be misconstrued as damage caused by dewatering operations. Submit before Work begins.
- D. Record Drawings: Identify locations and depths of capped wells and well points and other abandoned-in-place dewatering equipment.

## 1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer that has specialized in dewatering work.

## 1.7 FIELD CONDITIONS

- A. Project-Site Information: A geotechnical report has been prepared for this Project and is available for information only. The opinions expressed in this report are those of a geotechnical engineer and represent interpretations of subsoil conditions, tests, and results of analyses conducted by a geotechnical engineer. Owner is not responsible for interpretations or conclusions drawn from this data.
  1. Make additional test borings and conduct other exploratory operations necessary for dewatering according to the performance requirements.
  2. The geotechnical report is included elsewhere in Project Manual.
- B. Survey Work: Engage a qualified land surveyor or professional engineer to survey adjacent existing structures and site improvements; establish exact elevations at fixed points to act as benchmarks. Clearly identify benchmarks and record existing elevations.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Dewatering Performance: Design, furnish, install, test, operate, monitor, and maintain dewatering system of sufficient scope, size, and capacity to control hydrostatic pressures and to lower, control, remove, and dispose of ground water and permit excavation and construction to proceed on dry, stable subgrades.

1. Design dewatering system, including comprehensive engineering analysis by a qualified professional engineer.
  2. Continuously monitor and maintain dewatering operations to ensure erosion control, stability of excavations and constructed slopes, prevention of flooding in excavation, and prevention of damage to subgrades and permanent structures.
  3. Prevent surface water from entering excavations by grading, dikes, or other means.
  4. Accomplish dewatering without damaging existing structures and site improvements adjacent to excavation.
  5. Remove dewatering system when no longer required for construction.
- B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning dewatering. Comply with water- and debris-disposal regulations of authorities having jurisdiction.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by dewatering operations.
1. Prevent surface water and subsurface or ground water from entering excavations, from ponding on prepared subgrades, and from flooding site or surrounding area.
  2. Protect subgrades and foundation soils from softening and damage by rain or water accumulation.
- B. Install dewatering system to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities.
1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
- C. Provide temporary grading to facilitate dewatering and control of surface water.
- D. Protect and maintain temporary erosion and sedimentation controls, which are specified in Section 311000 "Site Clearing," during dewatering operations.

### 3.2 INSTALLATION

- A. Install dewatering system utilizing wells, well points, or similar methods complete with pump equipment, standby power and pumps, filter material gradation, valves, appurtenances, water disposal, and surface-water controls.
1. Space well points or wells at intervals required to provide sufficient dewatering.
  2. Use filters or other means to prevent pumping of fine sands or silts from the subsurface.

- B. Place dewatering system into operation to lower water to specified levels before excavating below ground-water level.
- C. Provide sumps, sedimentation tanks, and other flow-control devices as required by authorities having jurisdiction.
- D. Provide standby equipment on-site, installed and available for immediate operation, to maintain dewatering on continuous basis if any part of system becomes inadequate or fails.

### 3.3 OPERATION

- A. Operate system continuously until drains, sewers, and structures have been constructed and fill materials have been placed or until dewatering is no longer required.
- B. Operate system to lower and control ground water to permit excavation, construction of structures, and placement of fill materials on dry subgrades. Drain water-bearing strata above and below bottom of foundations, drains, sewers, and other excavations.
  - 1. Do not permit open-sump pumping that leads to loss of fines, soil piping, subgrade softening, and slope instability.
  - 2. Reduce hydrostatic head in water-bearing strata below subgrade elevations of foundations, drains, sewers, and other excavations.
  - 3. Maintain piezometric water level a minimum of 24 inches below bottom of excavation.
- C. Dispose of water removed by dewatering in a manner that avoids endangering public health, property, and portions of work under construction or completed. Dispose of water and sediment in a manner that avoids inconvenience to others.
- D. Remove dewatering system from Project site on completion of dewatering. Plug or fill well holes with sand or cut off and cap wells a minimum of 36 inches below overlying construction.

### 3.4 FIELD QUALITY CONTROL

- A. Observation Wells: Provide observation wells or piezometers, take measurements, and maintain at least the minimum number indicated; additional observation wells may be required by authorities having jurisdiction.
  - 1. Observe and record daily elevation of ground water and piezometric water levels in observation wells.
  - 2. Repair or replace, within 24 hours, observation wells that become inactive, damaged, or destroyed. In areas where observation wells are not functioning properly, suspend construction activities until reliable observations can be made. Add or remove water from observation-well risers to demonstrate that observation wells are functioning properly.
  - 3. Fill observation wells, remove piezometers, and fill holes when dewatering is completed.
- B. Survey-Work Benchmarks: Resurvey benchmarks regularly during dewatering and maintain an accurate log of surveyed elevations for comparison with original elevations. Promptly notify Engineer if changes in elevations occur or if cracks, sags, or other damage is evident in adjacent construction.

- C. Provide continual observation to ensure that subsurface soils are not being removed by the dewatering operation.
- D. Prepare reports of observations.

### 3.5 PROTECTION

- A. Protect and maintain dewatering system during dewatering operations.
- B. Promptly repair damages to adjacent facilities caused by dewatering.

END OF SECTION 312319

## **SECTION 315000**

### **EXCAVATION SUPPORT AND PROTECTION**

#### **PART 1 - GENERAL**

##### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 "General Requirements and Covenants" from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

##### **1.2 SUMMARY**

- A. Section includes temporary excavation support and protection systems.
- B. Related Requirements:
  - 1. Section 312000 "Earth Moving" for excavating and backfilling and for controlling surface-water runoff and ponding.
  - 2. Section 312319 "Dewatering" for dewatering excavations.

##### **1.3 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference: Conduct conference at Project site.
  - 1. Review geotechnical report.
  - 2. Review existing utilities and subsurface conditions.
  - 3. Review coordination for interruption, shutoff, capping, and continuation of utility services.
  - 4. Review proposed excavations.
  - 5. Review proposed equipment.
  - 6. Review monitoring of excavation support and protection system.
  - 7. Review coordination with waterproofing.
  - 8. Review abandonment or removal of excavation support and protection system.

##### **1.4 INFORMATIONAL SUBMITTALS**

- A. Qualification Data: For land surveyor and professional engineer.
- B. Contractor Calculations: For excavation support and protection system. Include analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- C. Existing Conditions: Using photographs or video recordings, show existing conditions of adjacent construction and site improvements that might be misconstrued as damage caused by inadequate performance of excavation support and protection systems. Submit before Work begins.

- D. Record Drawings: Identify locations and depths of capped utilities, abandoned-in-place support and protection systems, and other subsurface structural, electrical, or mechanical conditions.

## 1.5 FIELD CONDITIONS

- A. Interruption of Existing Utilities: Do not interrupt any utility serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility according to requirements indicated:
  - 1. Notify Engineer no fewer than 2 days in advance of proposed interruption of utility.
- B. Project-Site Information: A geotechnical report has been prepared for this Project and is available for information only. The opinions expressed in this report are those of a geotechnical engineer and represent interpretations of subsoil conditions, tests, and results of analyses conducted by a geotechnical engineer. Owner is not responsible for interpretations or conclusions drawn from the data.
  - 1. Make additional test borings and conduct other exploratory operations necessary for excavation support and protection according to the performance requirements.
  - 2. The geotechnical report is included in Project Manual.
- C. Survey Work: Engage a qualified land surveyor or professional engineer to survey adjacent existing buildings, structures, and site improvements; establish exact elevations at fixed points to act as benchmarks. Clearly identify benchmarks and record existing elevations.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Provide, design, monitor, and maintain excavation support and protection system capable of supporting excavation sidewalls and of resisting earth and hydrostatic pressures and superimposed and construction loads.
  - 1. Contractor Design: Design excavation support and protection system, including comprehensive engineering analysis by a licensed Structural Engineer.
  - 2. Prevent surface water from entering excavations by grading, dikes, or other means.
  - 3. Install excavation support and protection systems without damaging existing structures, and site improvements adjacent to excavation.
  - 4. Continuously monitor vibrations, settlements, and movements to ensure stability of excavations and constructed slopes and to ensure that damage to permanent structures is prevented.



## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards that could develop during excavation support and protection system operations.
  - 1. Shore, support, and protect utilities encountered.
- B. Install excavation support and protection systems to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
- C. Locate excavation support and protection systems clear of permanent construction so that construction and finishing of other work is not impeded.

### 3.2 FIELD QUALITY CONTROL

- A. Survey-Work Benchmarks: Resurvey benchmarks regularly during installation of excavation support and protection systems, excavation progress, and for as long as excavation remains open. Maintain an accurate log of surveyed elevations and positions for comparison with original elevations and positions. Promptly notify Engineer if changes in elevations or positions occur or if cracks, sags, or other damage is evident in adjacent construction.
- B. Promptly correct detected bulges, breakage, or other evidence of movement to ensure that excavation support and protection system remains stable.
- C. Promptly repair damages to adjacent facilities caused by installation or faulty performance of excavation support and protection systems.

### 3.3 REMOVAL AND REPAIRS

- A. Remove excavation support and protection systems when construction has progressed sufficiently to support excavation and earth and hydrostatic pressures. Remove in stages to avoid disturbing underlying soils and rock or damaging structures, pavements, facilities, and utilities.
  - 1. Fill voids immediately with approved backfill compacted to density specified in Section 312000 "Earth Moving."
  - 2. Repair or replace, as approved by Engineer, adjacent work damaged or displaced by removing excavation support and protection systems.

END OF SECTION 315000

**SECTION 321216**  
**ASPHALT PAVING**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 "General Requirements and Covenants" from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

**1.2 SUMMARY**

A. Section Includes:

- 1. Hot-mix asphalt paving.

B. Related Requirements:

- 1. Section 024119 "Selective Demolition" for demolition and removal of existing asphalt pavement.
- 2. Section 312000 "Earth Moving" for subgrade preparation, fill material, unbound-aggregate subbase and base courses, and aggregate pavement shoulders.
- 3. Section 321373 "Concrete Paving Joint Sealants" for joint sealants and fillers at pavement terminations.

**1.3 PREINSTALLATION MEETINGS**

A. Preinstallation Conference: Conduct conference at Project site.

- 1. Review methods and procedures related to hot-mix asphalt paving including, but not limited to, the following:
  - a. Review proposed sources of paving materials, including capabilities and location of plant that will manufacture hot-mix asphalt.
  - b. Review requirements for protecting paving work, including restriction of traffic during installation period and for remainder of construction period.

**1.4 ACTION SUBMITTALS**

A. Product Data: For each type of product.

- 1. Include technical data and tested physical and performance properties.
- 2. Job-Mix Designs: Certification, by authorities having jurisdiction, of approval of each job mix proposed for the Work.

- B. Samples for Verification: For the following product, in manufacturer's standard sizes unless otherwise indicated:

- 1. Paving Fabric: 12 by 12 inches minimum.

#### 1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturer and testing agency.
- B. Material Certificates: For each paving material.
- C. Material Test Reports: For each paving material, by a qualified testing agency.
- D. Field quality-control reports.

#### 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A paving-mix manufacturer registered with and approved by IDOT.
- B. Testing Agency Qualifications: Qualified according to ASTM D 3666 for testing indicated.

#### 1.7 FIELD CONDITIONS

- A. Environmental Limitations: Place asphalt materials according to section 406.06 of the Standard Specification for Road and Bridge Construction Manual.
  - 1. Aggregate Base preparation will be according to section 406.05.

### PART 2 - PRODUCTS

#### 2.1 AGGREGATES

- A. General: Use gradation CA-6 for base course according to section 1004.00 of the Standard Specification for Road and Bridge Construction Manual.

#### 2.2 ASPHALT MATERIALS

- A. Asphalt Binder: AASHTO M 323, PG 64-22 according to section 1030.00 of the Standard Specification for Road and Bridge Construction Manual.
- B. Prime Coat: According to section 403.00 of the Standard Specification for Road and Bridge Construction Manual.
- C. Water: Potable.

## 2.3 MIXES

- A. Hot-Mix Asphalt: according to section 406 of the Standard Specification for Road and Bridge Construction Manual.
  - 1. Base Course: IL-19.0, N50.
  - 2. Surface Course: IL-9.5, Mix “C”, N50.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify that subgrade is dry and in suitable condition to begin paving.
- B. Proceed with paving only after unsatisfactory conditions have been corrected.

### 3.2 REPAIRS

- A. Leveling Course: Install and compact leveling course consisting of hot-mix asphalt surface course to level sags and fill depressions deeper than 1 inch in existing pavements.
  - 1. Install leveling wedges in compacted lifts not exceeding 3 inches thick.

### 3.3 SURFACE PREPARATION

- A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.
  - 1. Aggregate Base preparation will be according to section 406.05.
- B. Prime Coat: Place prime coat according to section 403.00 of the Standard Specification for Road and Bridge Construction Manual.

### 3.4 PLACING HOT-MIX ASPHALT

- A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand in areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.
  - 1. Place asphalt materials according to section 406.00 of the Standard Specification for Road and Bridge Construction Manual.
  - 2. Place Joints according to section 406.06(g) of the Standard Specification for Road and Bridge Construction Manual.

### 3.5 COMPACTION

- A. General: compact asphalt according to section 406.07 of the Standard Specification for Road and Bridge Construction Manual.
- B. Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.
  - 1. Complete compaction before mix temperature cools to 185 deg F.
- C. Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.
  - 1. Average Density: 95 percent of reference laboratory density according to ASTM D 6927.
- D. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.
- E. Repairs: Remove paved areas that are defective or contaminated with foreign materials and replace with fresh, hot-mix asphalt. Compact by rolling to specified density and surface smoothness.
- F. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
- G. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

### 3.6 INSTALLATION TOLERANCES

- A. Pavement Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas:
  - 1. Base Course: 3/16 inch
  - 2. Surface Course: 3/16 inch

### 3.7 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. In-Place Density: The density of the compacted HMA shall be according to section 1030.05(d)(3), (d)(4), and (d)(7) of the Standard Specification for Road and Bridge Construction Manual..
  - a. Field density of in-place compacted pavement may also be determined by nuclear method according to ASTM D 2950 and correlated with ASTM D 1188 or ASTM D 2726.

- C. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

END OF SECTION 321216

**SECTION 321313**  
**CONCRETE PAVING**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 "General Requirements and Covenants" from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

**1.2 SUMMARY**

- A. Section Includes Concrete Paving.
  - 1. Roadways.
  - 2. Curbs and Gutters.
  - 3. Concrete Anchors.
- B. Related Requirements:
  - 1. Section 321373 "Concrete Paving Joint Sealants" for joint sealants in expansion and contraction joints within concrete paving and in joints between concrete paving and asphalt paving or adjacent construction.

**1.3 DEFINITIONS**

- A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, fly ash, slag cement, and other pozzolans.
- B. W/C Ratio: The ratio by weight of water to cementitious materials.

**1.4 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference: Conduct conference at Project site.
  - 1. Review methods and procedures related to concrete paving, including but not limited to, the following:
    - a. Concrete mixture design.
    - b. Quality control of concrete materials and concrete paving construction practices.

## 1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

## 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified ready-mix concrete manufacturer and testing agency.
- B. Material Certificates: For the following, from manufacturer:
  - 1. Cementitious materials.
  - 2. Steel reinforcement and reinforcement accessories.
  - 3. Admixtures.
  - 4. Curing compounds.
  - 5. Applied finish materials.
  - 6. Bonding agent or epoxy adhesive.
  - 7. Joint fillers.
- C. Material Test Reports: For each of the following:
  - 1. Aggregates
- D. Field quality-control reports.

## 1.7 QUALITY ASSURANCE

- A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
- B. Testing Agency Qualifications: Qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.
  - 1. Personnel conducting field tests shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification program.

## 1.8 PRECONSTRUCTION TESTING

- A. Preconstruction Testing Service: Engage a qualified independent testing agency to perform preconstruction testing on concrete paving mixtures.



## 1.9 FIELD CONDITIONS

- A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.
- B. Concrete Placement: Place concrete according to section 420.07 of the Standard Specification for Road and Bridge Construction Manual.

## PART 2 - PRODUCTS

### 2.1 CONCRETE, GENERAL

- A. ACI Publications: Comply with ACI 301 unless otherwise indicated.

### 2.2 FORMS

- A. Forms: According to section 420.06 of the Standard Specification for Road and Bridge Construction Manual.
  - 1. Remove forms according to section 420.11 of the Standard Specification for Road and Bridge Construction Manual.

### 2.3 STEEL REINFORCEMENT

- A. Reinforcement Bars: According to section 1006.10 and 1006.11 of the Standard Specification for Road and Bridge Construction Manual.

### 2.4 CONCRETE MATERIALS

- A. Cementitious Materials: According to section 1001 of the Standard Specification for Road and Bridge Construction Manual.
- B. Normal-Weight Aggregates: According to section 1004 of the Standard Specification for Road and Bridge Construction Manual.
- C. Air-Entraining Admixture: According to section 1021.02 of the Standard Specification for Road and Bridge Construction Manual.
- D. Chemical Admixtures: According to section 1021 of the Standard Specification for Road and Bridge Construction Manual.
- E. Water: Potable and complying with ASTM C 94/C 94M.

## 2.5 CURING MATERIALS

- A. Absorptive Cover: According to section 1022 of the Standard Specification for Road and Bridge Construction Manual.

## 2.6 RELATED MATERIALS

- A. Poured Joint Fillers: According to section 1050 of the Standard Specification for Road and Bridge Construction Manual.
- B. Preformed Expansion Joint Fillers: According to section 1051 of the Standard Specification for Road and Bridge Construction Manual.

## 2.7 CONCRETE MIXTURES

- A. Prepare design mixtures according to section 1020.04 of the Standard Specification for Road and Bridge Construction Manual.
  - 1. Compressive Strength (28 Days): 3500 psi.
  - 2. Maximum W/C Ratio at Point of Placement: 0.32-0.42.
  - 3. Slump Limit: 3 plus or minus 1 inch.

# PART 3 - EXECUTION

## 3.1 EXAMINATION

- A. Examine exposed subgrades and subbase surfaces for compliance with requirements for dimensional, grading, and elevation tolerances.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

## 3.2 PREPARATION

- A. Remove loose material from compacted subbase surface immediately before placing concrete.

## 3.3 EDGE FORMS AND SCREED CONSTRUCTION

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
- B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

### 3.4 STEEL REINFORCEMENT INSTALLATION

- A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
- B. Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.
- C. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement. Maintain minimum cover to reinforcement.
- D. Install welded-wire reinforcement in lengths as long as practicable. Lap adjoining pieces at least one full mesh, and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.
- E. Epoxy-Coated Reinforcement: Use epoxy-coated steel wire ties to fasten epoxy-coated reinforcement. Repair cut and damaged epoxy coatings with epoxy repair coating according to ASTM D 3963/D 3963M.
- F. Install fabricated bar mats in lengths as long as practicable. Handle units to keep them flat and free of distortions. Straighten bends, kinks, and other irregularities, or replace units as required before placement. Set mats for a minimum 2-inch overlap of adjacent mats.

### 3.5 JOINTS

- A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
  - 1. When joining existing paving, place transverse joints to align with previously placed joints unless otherwise indicated.
- B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
  - 1. Continue steel reinforcement across construction joints unless otherwise indicated. Do not continue reinforcement through sides of paving strips unless otherwise indicated.
  - 2. Provide tie bars at sides of paving strips where indicated.
  - 3. Butt Joints: Use epoxy-bonding adhesive at joint locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
  - 4. Keyed Joints: Provide preformed keyway-section forms or bulkhead forms with keys unless otherwise indicated. Embed keys at least 1-1/2 inches into concrete.
  - 5. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or coat with asphalt one-half of dowel length to prevent concrete bonding to one side of joint.
- C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
  - 1. Locate expansion joints at intervals of 50 feet unless otherwise indicated.

2. Extend joint fillers full width and depth of joint.
  3. Terminate joint filler not less than 1/2 inch or more than 1 inch below finished surface if joint sealant is indicated.
  4. Place top of joint filler flush with finished concrete surface if joint sealant is not indicated.
  5. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
  6. During concrete placement, protect top edge of joint filler with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.
- D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows, to match jointing of existing adjacent concrete paving:
1. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch-wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before developing random contraction cracks.
    - a. Tolerance: Ensure that sawed joints are within 3 inches either way from centers of dowels.
  2. Doweled Contraction Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or coat with asphalt one-half of dowel length to prevent concrete bonding to one side of joint.
- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 3/8-inch radius. Repeat tooling of edges after applying surface finishes.

### 3.6 CONCRETE PLACEMENT

- A. Before placing concrete, inspect and complete formwork installation, steel reinforcement, and items to be embedded or cast-in.
- B. Remove snow, ice, or frost from subbase surface and steel reinforcement before placing concrete. Do not place concrete on frozen surfaces.
- C. Moisten subbase to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.
- D. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.
- E. Do not add water to concrete during delivery or at Project site. Do not add water to fresh concrete after testing.
- F. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.

- G. Consolidate concrete according to ACI 301 by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping.
  - 1. Consolidate concrete along face of forms and adjacent to transverse joints with an internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Use only square-faced shovels for hand spreading and consolidation. Consolidate with care to prevent dislocating reinforcement and joint devices.
- H. Screed paving surface with a straightedge and strike off.
- I. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleedwater appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.
- J. Curbs and Gutters: Use design mixture for automatic machine placement. Produce curbs and gutters to required cross section, lines, grades, finish, and jointing.
- K. Slip-Form Paving: Use design mixture for automatic machine placement. Produce paving to required thickness, lines, grades, finish, and jointing.
  - 1. Compact subbase and prepare subgrade of sufficient width to prevent displacement of slip-form paving machine during operations.

### 3.7 FLOAT FINISHING

- A. General: Do not add water to concrete surfaces during finishing operations.
- B. Float Finish: Begin the second floating operation when bleedwater sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.
  - 1. Burlap Finish: Drag a seamless strip of damp burlap across float-finished concrete, perpendicular to line of traffic, to provide a uniform, gritty texture.
  - 2. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface, perpendicular to line of traffic, to provide a uniform, fine-line texture.

### 3.8 SPECIAL FINISHES

- A. Monolithic Exposed-Aggregate Finish: Expose coarse aggregate in paving surface as follows:
  - 1. Immediately after float finishing, spray-apply chemical surface retarder to paving according to manufacturer's written instructions.
  - 2. Cover paving surface with plastic sheeting, sealing laps with tape, and remove when ready to continue finishing operations.
  - 3. Without dislodging aggregate, remove mortar concealing the aggregate by lightly brushing surface with a stiff, nylon-bristle broom. Do not expose more than one-third of

the average diameter of the aggregate and not more than one-half of the diameter of the smallest aggregate.

4. Fine-spray surface with water and brush. Repeat cycle of water flushing and brushing until cement film is removed from aggregate surfaces to depth required.

### 3.9 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
- B. Comply with ACI 306.1 for cold-weather protection.
- C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete but before float finishing.
- D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.
- E. Curing Methods: Cure concrete by moisture curing, moisture-retaining-cover curing, curing compound or a combination of these as follows:
  1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:
    - a. Water.
    - b. Continuous water-fog spray.
    - c. Absorptive cover, water saturated and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.
  2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Immediately repair any holes or tears occurring during installation or curing period, using cover material and waterproof tape.
  3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating, and repair damage during curing period.

### 3.10 PAVING TOLERANCES

- A. Comply with tolerances in ACI 117 and as follows:
  1. Elevation: 1/4 inch.
  2. Thickness: Plus 3/8 inch, minus 1/4 inch.
  3. Surface: Gap below 10-feet-long; unleveled straightedge not to exceed 1/2 inch.
  4. Alignment of Tie-Bar End Relative to Line Perpendicular to Paving Edge: 1/2 inch per 12 inches of tie bar.

5. Lateral Alignment and Spacing of Dowels: 1 inch.
6. Vertical Alignment of Dowels: 1/4 inch.
7. Alignment of Dowel-Bar End Relative to Line Perpendicular to Paving Edge: 1/4 inch per 12 inches of dowel.
8. Joint Spacing: 3 inches.
9. Contraction Joint Depth: Plus 1/4 inch, no minus.
10. Joint Width: Plus 1/8 inch, no minus.

### 3.11 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Testing Services: Testing and inspecting of composite samples of fresh concrete obtained according to ASTM C 172/C 172M shall be performed according to the following requirements:
  1. Testing Frequency: Obtain at least one composite sample for each 100 cu. yd. or fraction thereof of each concrete mixture placed each day.
    - a. When frequency of testing will provide fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
  2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
  3. Air Content: ASTM C 231/C 231M, pressure method; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
  4. Concrete Temperature: ASTM C 1064/C 1064M; one test hourly when air temperature is 40 deg F and below and when it is 80 deg F and above, and one test for each composite sample.
  5. Compression Test Specimens: ASTM C 31/C 31M; cast and laboratory cure one set of three standard cylinder specimens for each composite sample.
  6. Compressive-Strength Tests: ASTM C 39/C 39M; test one specimen at 3 days and two specimens at 14 days.
    - a. A compressive-strength test shall be the average compressive strength from two specimens obtained from same composite sample and tested at 14 days.
- C. Strength of each concrete mixture will be satisfactory if average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
- D. Test results shall be reported in writing to Engineer, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 3- and 14-day tests.

- E. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Engineer but will not be used as sole basis for approval or rejection of concrete.
- F. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Engineer.
- G. Concrete paving will be considered defective if it does not pass tests and inspections.
- H. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
- I. Prepare test and inspection reports.

### 3.12 REPAIR AND PROTECTION

- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Engineer.
- B. Drill test cores, where directed by Engineer, when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory paving areas with portland cement concrete bonded to paving with epoxy adhesive.
- C. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.
- D. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 321313



## **SECTION 321373**

### **CONCRETE PAVING JOINT SEALANTS**

#### **PART 1 - GENERAL**

##### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 "General Requirements and Covenants" from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

##### **1.2 SUMMARY**

- A. Section Includes:

- 1. Cold-applied joint sealants.
  - 2. Hot-applied joint sealants.
  - 3. Joint-sealant backer materials.
  - 4. Primers.

- B. Related Requirements:

- 1. Section 079200 "Concrete Paving" for sealing nontraffic and traffic joints in locations not specified in this Section.

##### **1.3 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference: Conduct conference at Project site.

##### **1.4 ACTION SUBMITTALS**

- A. Product Data: For each type of product.

- B. Paving-Joint-Sealant Schedule: Include the following information:

- 1. Joint-sealant application, joint location, and designation.
  - 2. Joint-sealant manufacturer and product name.
  - 3. Joint-sealant formulation.
  - 4. Joint-sealant color.

##### **1.5 INFORMATIONAL SUBMITTALS**

- A. Qualification Data: For testing agency.

- B. Product Certificates: For each type of joint sealant and accessory.

## 1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. Product Testing: Test joint sealants using a qualified testing agency.

## 1.7 FIELD CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
  - 1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer.
  - 2. When joint substrates are wet.
  - 3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
  - 4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

# PART 2 - PRODUCTS

## 2.1 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backing materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

## 2.2 COLD-APPLIED JOINT SEALANTS

- A. Single-Component, Nonsag, Silicone Joint Sealant: ASTM D 5893/D 5893M, Type NS.
- B. Single-Component, Self-Leveling, Silicone Joint Sealant: ASTM D 5893/D 5893M, Type SL.

## 2.3 HOT-APPLIED JOINT SEALANTS

- A. Hot-Applied, Single-Component Joint Sealant: ASTM D 6690, Type I or Type II.

## 2.4 JOINT-SEALANT BACKER MATERIALS

- A. Joint-Sealant Backer Materials: Nonstaining; compatible with joint substrates, sealants, primers, and other joint fillers; and approved for applications indicated by joint-sealant manufacturer, based on field experience and laboratory testing.

- B. Round Backer Rods for Cold- and Hot-Applied Joint Sealants: ASTM D 5249, Type 1, of diameter and density required to control sealant depth and prevent bottom-side adhesion of sealant.

## 2.5 PRIMERS

- A. Primers: Product recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine joints to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Surface Cleaning of Joints: Before installing joint sealants, clean out joints immediately to comply with joint-sealant manufacturer's written instructions.
  - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
- B. Joint Priming: Prime joint substrates where indicated or where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

### 3.3 INSTALLATION OF JOINT SEALANTS

- A. Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated unless more stringent requirements apply.
- B. Joint-Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions.
- C. Install joint-sealant backings to support joint sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
  - 1. Do not leave gaps between ends of joint-sealant backings.

2. Do not stretch, twist, puncture, or tear joint-sealant backings.
  3. Remove absorbent joint-sealant backings that have become wet before sealant application and replace them with dry materials.
- D. Install joint sealants immediately following backing installation, using proven techniques that comply with the following:
1. Place joint sealants so they fully contact joint substrates.
  2. Completely fill recesses in each joint configuration.
  3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- E. Tooling of Nonsag Joint Sealants: Immediately after joint-sealant application and before skinning or curing begins, tool sealants according to the following requirements to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint:
1. Remove excess joint sealant from surfaces adjacent to joints.
  2. Use tooling agents that are approved in writing by joint-sealant manufacturer and that do not discolor sealants or adjacent surfaces.
- F. Provide joint configuration to comply with joint-sealant manufacturer's written instructions unless otherwise indicated.

### 3.4 CLEANING AND PROTECTION

- A. Clean off excess joint sealant as the Work progresses, by methods and with cleaning materials approved in writing by joint-sealant manufacturers.
- B. Protect joint sealants, during and after curing period, from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately and replace with joint sealant so installations in repaired areas are indistinguishable from the original work.

END OF SECTION 321373

**SECTION 329200**  
**TURF AND GRASSES**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 "General Requirements and Covenants" from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

**1.2 SUMMARY**

A. Section Includes:

- 1. Seeding.
- 2. Erosion-control material(s).

B. Related Requirements:

- 1. Section 334600 "Subdrainage" for below-grade drainage of landscaped areas.
- 2. Section 311000 "Site Clearing" for site clearing and removal of above- and below-grade improvements not part of "Turf and Grasses."

**1.3 DEFINITIONS**

- A. Finish Grade: Elevation of finished surface of planting soil.
- B. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also includes substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.
- C. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
- D. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.
- E. Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

#### 1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

#### 1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For landscape Installer.
- B. Prairie Seed Mixes: Prairie seed mixes with proportions of species to be included listed by weight.
- C. Product Certificates: For fertilizers, from manufacturer.
- D. Pesticides and Herbicides: Product label and manufacturer's application instructions specific to Project.

#### 1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of native plants during a calendar year. Submit before expiration of required maintenance periods.

#### 1.7 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful native plant establishment.

#### 1.8 DELIVERY, STORAGE, AND HANDLING

- A. Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with state and Federal laws, as applicable.
- B. Bulk Materials:
  - 1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing native plant areas.
  - 2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
  - 3. Accompany each delivery of bulk materials with appropriate certificates.

#### 1.9 FIELD CONDITIONS

- A. Planting Restrictions: Coordinate planting periods with initial maintenance periods to provide required maintenance from date of Substantial Completion.

- B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions.

## PART 2 - PRODUCTS

### 2.1 SEED

- A. Prairie Seeds: Fresh, clean, and new-crop seeds.

1. Origin: Seed shall be of "local" genotype. "Local" shall mean seed collected or originating from plants within a 150 mile radius of Peoria, Illinois.
2. "Prairie" seed mixture shall contain the following species:

Grasses	Botanical	PLS oz./Acre
Little Bluestem	<i>Andropogon scoparius</i>	28.0
Big Bluestem	<i>Andropogon gerardi</i>	20.0
Virginia Wildrye	<i>Elymus virginicus</i>	8.0
Indian Grass	<i>Sorghastrum nutans</i>	6.0
Prairie Cordgrass	<i>Spartina pectinata</i>	3.0
Sideoats Grama	<i>Bouteloua curtipendula</i>	3.0
<u>Cover crop</u>		
Annual Rye	<i>Lolium multiflorum</i>	100.0
Common Oat	<i>Avena sativa</i>	360.0
<u>Forbs</u>		
Lead Plant	<i>Amorpha canescens</i>	0.5
Butterfly Weed	<i>Asclepias tuberosa</i>	1.5
Sky Blue Aster	<i>Aster azureus</i>	0.5
New England Aster	<i>Aster novae-anglae</i>	1.5
White Wild Indigo	<i>Baptisia leucantha</i>	2.0
Prairie Coreopsis	<i>Coreopsis palmata</i>	1.0
Purple Coneflower	<i>Echinacea purpurea</i>	8.0
Rattlesnake Master	<i>Eryngium yuccifolium</i>	1.0
Joe-Pye Weed	<i>Eupatorium maculatum</i>	0.5
Showy Sunflower	<i>Helianthus laetiflorus</i>	0.5
Button Blazing Star	<i>Liatris aspera</i>	1.0
Prairie Blazing Star	<i>Liatris pycnostachya</i>	4.0
Cardinal Flower	<i>Lobelia cardinalis</i>	0.5
Wild Lupine	<i>Lupinus perennis</i>	1.5
Bee Balm	<i>Monarda fistulosa</i>	2.0
Prairie Phlox	<i>Phlox pilosa</i>	0.5
Yellow Coneflower	<i>Ratibida pinnata</i>	6.0
Black-Eyed Susan	<i>Rudbeckia hirta</i>	6.0
Compass Plant	<i>Silphium laciniatum</i>	2.0
Prairie Dock	<i>Silphium terebinthinaceum</i>	4.0

Showy Goldenroad      *Solidago speciosa*      0.5

3. Apply at 38 PLS pounds per acre.
4. If listed seed not available, provide recommendations for substitutions.

## 2.2 EROSION-CONTROL MATERIALS

- A. Heavy Duty Erosion-Control Mats: Curlex, Curlex III or equivalent with the following characteristics:
  1. Unit Weight: 20 oz/sy
  2. Tensile Strength (MD x XD): 116 lf/ft x 93.6 lb/ft
  3. Thickness: 0.85 in
- B. Anchors shall be steel wire staples a minimum of 6 in in length.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.
  1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
  2. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
  3. Uniformly moisten excessively dry soil that is not workable or which is dusty.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Engineer and replace with new planting soil.

### 3.2 PREPARATION

- A. Protect structures; utilities; sidewalks; pavements; and other facilities, trees, shrubs, and plantings from damage caused by planting operations.
  1. Protect grade stakes set by others until directed to remove them.
- B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.



### 3.3 NATIVE PLANT AREA PREPARATION

- A. General: Prepare planting area for soil placement and mix planting soil.
- B. Placing Planting Soil: Place and mix planting soil in place over exposed subgrade.
- C. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- D. Before planting, obtain Engineer's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.
  - 1. Do not use fill from adjacent hillsides.

### 3.4 PREPARATION FOR EROSION-CONTROL MATERIALS

- A. Prepare area as specified in "Native Plant Area Preparation" Article.
- B. For erosion-control mats, install planting soil in two lifts, with second lift equal to thickness of erosion-control mats. Install erosion-control mat and fasten as recommended by material manufacturer.
- C. Fill cells of erosion-control mat with planting soil and compact before planting.
- D. For erosion-control blanket or mesh, install from top of slope, working downward, and as recommended by material manufacturer for site conditions. Fasten as recommended by material manufacturer.
- E. Moisten prepared area before planting if surface is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

### 3.5 SEEDING

- A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph.
  - 1. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
  - 2. Do not use wet seed or seed that is moldy or otherwise damaged.
  - 3. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.
- B. Sow seed at a rate specified by the manufacturer.
- C. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.
- D. Protect seeded areas with slopes exceeding 1:4 with erosion-control blankets installed and stapled according to manufacturer's written instructions.
- E. Protect seeded areas with erosion-control mats where indicated on Drawings; install and anchor according to manufacturer's written instructions.

### 3.6 NATIVE PLANT MAINTENANCE

- A. General: Maintain and establish native plant by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable native plants. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth native plant. Provide materials and installation the same as those used in the original installation.
  - 1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and native plants damaged or lost in areas of subsidence.
  - 2. Apply treatments as required to keep native plants and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.
- B. Watering: Install and maintain temporary piping, hoses, and native plant-watering equipment to convey water from sources and to keep native plants uniformly moist to a depth of 4 inches.
  - 1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
  - 2. Water native plants with fine spray at a minimum rate of 1 inch per week unless rainfall precipitation is adequate.

### 3.7 CLEANUP AND PROTECTION

- A. Promptly remove soil and debris created by native plant work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.
- B. All Disturbed landscaped areas due to proposed construction shall be proved with 12 inches of topsoil and seeding. The Contractor shall irrigate the seeding for a minimum of 2 weeks.
- C. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.
- D. Erect temporary fencing or barricades and warning signs as required to protect newly planted areas from traffic. Maintain fencing and barricades throughout initial maintenance period and remove after plantings are established.
- E. Remove nondegradable erosion-control measures after grass establishment period.

END OF SECTION 329200

**SECTION 334100**  
**STORM UTILITY DRAINAGE PIPING**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 “General Requirements and Covenants” from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

**1.2 SUMMARY**

- A. Section Includes:
  - 1. Manholes.
  - 2. Catch basins.
  - 3. Inlets.
  - 4. Pipe outlets.
  - 5. Concrete anchors.

**1.3 DEFINITIONS**

- A. PE: Polyethylene.

**1.4 ACTION SUBMITTALS**

- A. Product Data: For each type of product indicated.
  - 1. Manholes.
  - 2. Catch basins.
  - 3. Inlets.
  - 4. Pipe outlets.
  - 5. Pipes.
  - 6. Concrete Anchors.

**1.5 INFORMATIONAL SUBMITTALS**

- A. Product Certificates: For each type PE pipe and fitting, from manufacturer.
- B. Field quality-control reports.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect pipe, pipe fittings, and seals from dirt and damage.
- B. Handle manholes according to manufacturer's written rigging instructions.
- C. Handle catch basins and inlets according to manufacturer's written rigging instructions.

## 1.7 PROJECT CONDITIONS

- A. Verify all products are free of faults and damages.

## PART 2 - PRODUCTS

### 2.1 MANHOLES

#### A. Standard Precast Concrete Manholes:

- 1. Description: ASTM C 478, precast, reinforced concrete, of depth indicated, with provision for sealant joints.
- 2. Diameter: 48 inches minimum unless otherwise indicated.
- 3. Ballast: Increase thickness of precast concrete sections or add concrete to base section as required to prevent flotation.
- 4. Base Section: 6-inch minimum thickness for floor slab and 4-inch minimum thickness for walls and base riser section, and separate base slab or base section with integral floor.
- 5. Riser Sections: 4-inch minimum thickness, and lengths to provide depth indicated.
- 6. Top Section: Eccentric-cone type unless concentric-cone or flat-slab-top type is indicated, and top of cone of size that matches grade rings.
- 7. Joint Sealant: ASTM C 990, bitumen or butyl rubber.
- 8. Resilient Pipe Connectors: ASTM C 923, cast or fitted into manhole walls, for each pipe connection.
- 9. Steps: Individual FRP steps; FRP ladder; or ASTM A 615/A 615M, deformed, 1/2-inch steel reinforcing rods encased in ASTM D 4101, PP, wide enough to allow worker to place both feet on one step and designed to prevent lateral slippage off step. Cast or anchor steps into sidewalls at 12- to 16-inch intervals. Omit steps if total depth from floor of manhole to finished grade is less than 60 inches.
- 10. Adjusting Rings: Interlocking HDPE rings with level or sloped edge in thickness and diameter matching manhole frame and cover, and of height required to adjust manhole frame and cover to indicated elevation and slope. Include sealant recommended by ring manufacturer.

#### B. Manhole Frames and Covers:

- 1. IDOT, Frame and Lid type 1 or equivalent

### 2.2 CONCRETE

- A. General: Cast-in-place concrete according to ACI 318, ACI 350/350R, and the following:

1. Cement: ASTM C 150, Type II.
  2. Fine Aggregate: ASTM C 33, sand.
  3. Coarse Aggregate: ASTM C 33, crushed gravel.
  4. Water: Potable.
- B. Portland Cement Design Mix: 4000 psi minimum, with 0.45 maximum water/cementitious materials ratio.
1. Reinforcing Fabric: ASTM A 185/A 185M, steel, welded wire fabric, plain.
  2. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 (420 MPa) deformed steel.
- C. Manhole Channels and Benches: Factory or field formed from concrete. Portland cement design mix, 4000 psi minimum, with 0.45 maximum water/cementitious materials ratio. Include channels and benches in manholes.
1. Channels: Concrete invert, formed to same width as connected piping, with height of vertical sides to three-fourths of pipe diameter. Form curved channels with smooth, uniform radius and slope.
    - a. Invert Slope: 2 percent through manhole.
  2. Benches: Concrete, sloped to drain into channel.
    - a. Slope: 4 percent.
- D. Ballast and Pipe Supports: Portland cement design mix, 3000 psi minimum, with 0.58 maximum water/cementitious materials ratio.
1. Reinforcing Fabric: ASTM A 185/A 185M, steel, welded wire fabric, plain.
  2. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 (420 MPa) deformed steel.

## 2.3 CATCH BASINS

- A. Standard Precast Concrete Catch Basins:
1. Description: ASTM C 478, precast, reinforced concrete, of depth indicated, with provision for sealant joints.
  2. Base Section: 6-inch minimum thickness for floor slab and 4-inch minimum thickness for walls and base riser section, and separate base slab or base section with integral floor.
  3. Riser Sections: 4-inch minimum thickness, 48-inch diameter, and lengths to provide depth indicated.
  4. Top Section: Eccentric-cone type unless concentric-cone or flat-slab-top type is indicated. Top of cone of size that matches grade rings.
  5. Joint Sealant: ASTM C 990, bitumen or butyl rubber.
  6. Adjusting Rings: Interlocking rings with level or sloped edge in thickness and shape matching catch basin frame and grate. Include sealant recommended by ring manufacturer.
  7. Steps: Individual FRP steps; FRP ladder; or ASTM A 615/A 615M, deformed, 1/2-inch steel reinforcing rods encased in ASTM D 4101, PP, wide enough to allow worker to place both feet on one step and designed to prevent lateral slippage off step. Cast or

anchor steps into sidewalls at 12- to 16-inch intervals. Omit steps if total depth from floor of catch basin to finished grade is less than 60 inches.

8. Pipe Connectors: ASTM C 923, resilient, of size required, for each pipe connecting to base section.

- B. Frames and Grates: Neenah R-3246A.

## 2.4 INLETS

- A. Curb Inlets: City of Peoria Inlet G-1 standard.

## 2.5 PIPE OUTLETS

- A. Headwall: 30 inch diameter Oldcastle Precast, Inc. pipe culvert headwall with dissipators or equivalent.

## 2.6 PIPES

- A. High-density polyethylene pipe
  1. ADS, HP Storm Pipe or equivalent.
  2. ADS, Single Wall Heavy Duty Pipe or equivalent.

## 2.7 CONCRETE ANCHORS

- A. Concrete Anchors
  1. Portland Cement Concrete: 3000 psi minimum, with 0.45 maximum water/cementitious materials ratio.
  2. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 (420 MPa) deformed steel.

# PART 3 - EXECUTION

## 3.1 EARTHWORK

- A. Excavation, trenching, and backfilling are specified in Section 312000 "Earth Moving."

## 3.2 PIPING INSTALLATION

- A. General Locations and Arrangements: Drawing plans and details indicate general location and arrangement of underground storm drainage piping. Location and arrangement of piping layout take into account design considerations. Install piping as indicated, to extent practical. Where specific installation is not indicated, follow piping manufacturer's written instructions.

- B. Install piping beginning at low point, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions for use of lubricants, cements, and other installation requirements.
- C. Install manholes for changes in direction unless fittings are indicated. Use fittings for branch connections unless direct tap into existing sewer is indicated.
- D. Install proper size increasers, reducers, and couplings where different sizes or materials of pipes and fittings are connected. Reducing size of piping in direction of flow is prohibited.
- E. When installing pipe under streets or other obstructions that cannot be disturbed, use pipe-jacking process of microtunneling.
- F. Install gravity-flow, nonpressure drainage piping according to Manufacturer's specifications.

### 3.3 MANHOLE INSTALLATION

- A. General: Install manholes, complete with appurtenances and accessories indicated.
- B. Install precast concrete manhole sections with sealants according to ASTM C 891.
- C. Compact soil where manhole is to be placed to 95 percent of standard laboratory density.
- D. Where specific manhole construction is not indicated, follow manhole manufacturer's written instructions.
- E. Set tops of frames and covers flush with finished surface of manholes that occur in pavements. Set tops 3 inches above finished surface elsewhere unless otherwise indicated.

### 3.4 CATCH BASIN INSTALLATION

- A. Construct catch basins to sizes and shapes indicated.
- B. Compact soil where catchbasin is to be placed to 95 percent of standard laboratory density.
- C. Set frames and grates to elevations indicated.

### 3.5 STORMWATER INLET AND OUTLET INSTALLATION

- A. Construct inlet head walls, aprons, and sides of reinforced concrete, as indicated.
- B. Construct riprap of broken stone, as indicated.
- C. Install outlets that spill onto grade, anchored with concrete, where indicated.
- D. Install outlets that spill onto grade, with flared end sections that match pipe, where indicated.
- E. Construct energy dissipaters at outlets, as indicated.

### 3.6 CONCRETE PLACEMENT

- A. Place cast-in-place concrete according to ACI 318.
- B. Concrete Anchor: Compact soil to 95 percent of standard laboratory density.

### 3.7 CONNECTIONS

- A. Make connections to existing piping and underground manholes.
  - 1. Use commercially manufactured wye fittings for piping branch connections. Remove section of existing pipe; install wye fitting into existing piping; and encase entire wye fitting, plus 6-inch overlap, with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi.
  - 2. Make branch connections from side into existing piping, NPS 4 to NPS 20. Remove section of existing pipe, install wye fitting into existing piping, and encase entire wye with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi.
  - 3. Make branch connections from side into existing piping, NPS 21 or larger, or to underground manholes and structures by cutting into existing unit and creating an opening large enough to allow 3 inches of concrete to be packed around entering connection. Cut end of connection pipe passing through pipe or structure wall to conform to shape of and be flush with inside wall unless otherwise indicated. On outside of pipe, manhole, or structure wall, encase entering connection in 6 inches of concrete for minimum length of 12 inches to provide additional support of collar from connection to undisturbed ground.
    - a. Use concrete that will attain a minimum 28-day compressive strength of 3000 psi unless otherwise indicated.
    - b. Use epoxy-bonding compound as interface between new and existing concrete and piping materials.
  - 4. Protect existing piping, manholes, and structures to prevent concrete or debris from entering while making tap connections. Remove debris or other extraneous material that may accumulate.
- B. Pipe couplings, expansion joints, and deflection fittings with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.
  - 1. Use nonpressure-type flexible couplings where required to join gravity-flow, nonpressure sewer piping unless otherwise indicated.
    - a. Shielded flexible couplings for same or minor difference OD pipes.
    - b. Unshielded, increaser/reducer-pattern, flexible couplings for pipes with different OD.
    - c. Ring-type flexible couplings for piping of different sizes where annular space between smaller piping's OD and larger piping's ID permits installation.
  - 2. Use pressure-type pipe couplings for force-main joints.



### 3.8 IDENTIFICATION

- A. Materials and their installation are specified in Section 312000 "Earth Moving." Arrange for installation of green warning tape directly over piping and at outside edge of underground structures.
  - 1. Use warning tape or detectable warning tape over ferrous piping.
  - 2. Use detectable warning tape over nonferrous piping and over edges of underground structures.

### 3.9 FIELD QUALITY CONTROL

- A. Inspect interior of piping to determine whether line displacement or other damage has occurred. Inspect after approximately 24 inches of backfill is in place, and again at completion of Project.
  - 1. Submit separate reports for each system inspection.
  - 2. Defects requiring correction include the following:
    - a. Alignment: Less than full diameter of inside of pipe is visible between structures.
    - b. Deflection: Flexible piping with deflection that prevents passage of ball or cylinder of size not less than 92.5 percent of piping diameter.
    - c. Damage: Crushed, broken, cracked, or otherwise damaged piping.
    - d. Infiltration: Water leakage into piping.
    - e. Exfiltration: Water leakage from or around piping.
  - 3. Replace defective piping using new materials, and repeat inspections until defects are within allowances specified.
  - 4. Reinspect and repeat procedure until results are satisfactory.
- B. Test new piping systems, and parts of existing systems that have been altered, extended, or repaired, for leaks and defects.
  - 1. Do not enclose, cover, or put into service before inspection and approval.
  - 2. Test completed piping systems according to requirements of authorities having jurisdiction.
  - 3. Schedule tests and inspections by authorities having jurisdiction with at least 24 hours' advance notice.
  - 4. Submit separate report for each test.
  - 5. Gravity-Flow Storm Drainage Piping: Test according to requirements of authorities having jurisdiction, UNI-B-6, and the following:
    - a. Exception: Piping with soiltight joints unless required by authorities having jurisdiction.
    - b. Option: Test plastic piping according to ASTM F 1417.
- C. Leaks and loss in test pressure constitute defects that must be repaired.
- D. Replace leaking piping using new materials, and repeat testing until leakage is within allowances specified.

3.10 CLEANING

- A. Clean interior of piping of dirt and superfluous materials.

END OF SECTION 334100

## **SECTION 334600**

### **SUBDRAINAGE**

#### **PART 1 - GENERAL**

##### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Division 100 "General Requirements and Covenants" from the Standard Specifications for Road and Bridge Construction Manual, apply to this Section.

##### **1.2 SUMMARY**

- A. Section Includes:
  - 1. Perforated-wall pipe and fittings.
  - 2. Geotextile filter fabrics.

##### **1.3 ACTION SUBMITTALS**

- A. Product Data:
  - 1. Geotextile filter fabrics.

#### **PART 2 - PRODUCTS**

##### **2.1 PERFORATED-WALL PIPES AND FITTINGS**

- A. Perforated PE Pipe and Fittings:
  - 1. NPS 6 and Smaller: ASTM F 405 or AASHTO M 252, Type CP; corrugated, for coupled joints.
  - 2. NPS 8 and Larger: ASTM F 667; AASHTO M 252, Type CP; or AASHTO M 294, Type CP; corrugated; for coupled joints.
  - 3. Couplings: Manufacturer's standard, band type.
- B. Perforated PVC Sewer Pipe and Fittings: ASTM D 2729, bell-and-spigot ends, for loose joints.

##### **2.2 SOIL MATERIALS**

- A. Soil materials are specified in Section 312000 "Earth Moving."

## 2.3 GEOTEXTILE FILTER FABRICS

- A. Description: Fabric of PP or polyester fibers or combination of both, with flow rate range from 110 to 330 gpm/sq. ft. when tested according to ASTM D 4491.
- B. Structure Type: Nonwoven, needle-punched continuous filament.
  - 1. Survivability: AASHTO M 288 Class 2.
  - 2. Styles: Flat and sock.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine surfaces and areas for suitable conditions where subdrainage systems are to be installed.
- B. If subdrainage is required for landscaping, locate and mark existing utilities, underground structures, and aboveground obstructions before beginning installation and avoid disruption and damage of services.
- C. Verify that drainage panels installed as part of foundation wall waterproofing is properly positioned to drain into subdrainage system.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 EARTHWORK

- A. Excavating, trenching, and backfilling are specified in Section 312000 "Earth Moving."

### 3.3 LANDSCAPING DRAINAGE INSTALLATION

- A. Provide trench width to allow installation of drainage conduit. Grade bottom of trench excavations to required slope, and compact to firm, solid bed for drainage system.
- B. Lay flat-style geotextile filter fabric in trench and overlap trench sides.
- C. Place supporting layer of drainage course over compacted subgrade and geotextile filter fabric, to compacted depth of not less than 4 inches.
- D. Install drainage conduits as indicated in Part 3 "Piping Installation" Article for landscaping subdrainage with horizontal distance of at least 6 inches between conduit and trench walls. Wrap drainage conduits without integral geotextile filter fabric with flat-style geotextile filter fabric before installation. Connect fabric sections with adhesive or tape.
- E. Add drainage course to top of drainage conduits.
- F. After satisfactory testing, cover drainage conduit to within 12 inches of finish grade.

- G. Install drainage course and wrap top of drainage course with flat-style geotextile filter fabric.
- H. Place layer of flat-style geotextile filter fabric over top of drainage course, overlapping edges at least 4 inches.
- I. Fill to Grade: Place satisfactory soil fill material over drainage course. Place material in loose-depth layers not exceeding 12 inches. Thoroughly compact each layer. Fill to finish grade.

### 3.4 PIPING INSTALLATION

- A. Perforated pipe installed above Storm Drainage pipe, as indicated in the plans, the price of installation shall be included with the Storm Pipe installation.
- B. Install piping beginning at low points of system, true to grades and alignment indicated, with unbroken continuity of invert. Bed piping with full bearing in filtering material. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions and other requirements indicated.
  - 1. Landscaping Subdrainage: Install piping pitched down in direction of flow, at a minimum slope of 1.0 percent and with a minimum cover of 12 inches unless otherwise indicated.
  - 2. Lay perforated pipe with perforations down.
  - 3. Excavate recesses in trench bottom for bell ends of pipe. Lay pipe with bells facing upslope and with spigot end entered fully into adjacent bell.
- C. Use increasers, reducers, and couplings made for different sizes or materials of pipes and fittings being connected. Reduction of pipe size in direction of flow is prohibited.

### 3.5 PIPE JOINT CONSTRUCTION

- A. Join perforated PE pipe and fittings with couplings according to ASTM D 3212 with loose banded, coupled, or push-on joints.
- B. Join perforated PVC sewer pipe and fittings according to ASTM D 3212 with loose bell-and-spigot, push-on joints.
- C. Special Pipe Couplings: Join piping made of different materials and dimensions with special couplings made for this application. Use couplings that are compatible with and fit materials and dimensions of both pipes.

### 3.6 IDENTIFICATION

- A. Arrange for installation of green warning tapes directly over piping. Comply with requirements for underground warning tapes specified in specified in Section 312000 "Earth Moving."
  - 1. Install PE warning tape or detectable warning tape over ferrous piping.
  - 2. Install detectable warning tape over nonferrous piping and over edges of underground structures.

### 3.7 FIELD QUALITY CONTROL

#### A. Tests and Inspections:

1. After installing drainage course to top of piping, test drain piping with water to ensure free flow before backfilling.
2. Remove obstructions, replace damaged components, and repeat test until results are satisfactory.

#### B. Drain piping will be considered defective if it does not pass tests and inspections.

#### C. Prepare test and inspection reports.

### 3.8 CLEANING

- #### A.
- Clear interior of installed piping and structures of dirt and other superfluous material as work progresses. Maintain swab or drag in piping and pull past each joint as it is completed. Place plugs in ends of uncompleted pipe at end of each day or when work stops.

END OF SECTION 334600

**ATTACHMENT A.6**

**INSURANCE REQUIREMENTS**  
**ROUTINE CONSTRUCTION, MAINTENANCE AND REPAIR PROJECTS**

Contractor shall obtain insurance of the types and in the amounts listed below.

**A. COMMERCIAL GENERAL AND UMBRELLA LIABILITY INSURANCE**

Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella insurance with a limit of not less than \$1,000,000 each occurrence. If such CGL insurance contains a general aggregate limit, it shall apply separately to this project/location.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 10 93, or a substitute form providing equivalent coverage, and shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).

Owner shall be included as an insured under the CGL, using ISO additional insured endorsement CG 20 10 or a substitute providing equivalent coverage, and under the commercial umbrella, if any. This insurance shall apply as primary insurance with respect to any other insurance or self-insurance afforded to Owner.

There shall be no endorsement or modification of the CGL limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground property damage.

**B. CONTINUING COMPLETED OPERATIONS LIABILITY INSURANCE**

Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella liability insurance with a limit of not less than \$1,000,000 each occurrence for at least one (1) year following substantial completion of the work.

Continuing CGL insurance shall be written on ISO occurrence form CG 00 01 10 93, or substitute form providing equivalent coverage, and shall, at minimum, cover liability arising from products-completed operations and liability assumed under an insured contract.

Continuing CGL insurance shall have a products-completed operations aggregate of at least two times its each occurrence limit.

Continuing commercial umbrella coverage, if any, shall include liability coverage for damage to the insured's completed work equivalent to that provided under ISO form CG 00 01.

**C. BUSINESS AUTO AND UMBRELLA LIABILITY INSURANCE**

Contractor shall maintain business auto liability and, if necessary, commercial umbrella liability insurance with a limit of not less than \$1,000,000 each accident. Such insurance shall cover liability arising out of any auto including owned, hired and non-owned autos.

Business auto insurance shall be written on Insurance Services Office (ISO) form CA 00 01, CA 00 05, CA 00 12, CA 00 20, or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage equivalent to that provided in the 1990 and later editions of CA 00 01.

**D. WORKERS COMPENSATION INSURANCE**

Contractor shall maintain workers compensation as required by statute and employers liability insurance. The commercial umbrella and/or employers liability limits shall not be less than \$1,000,000 each accident for bodily injury by accident or \$1,000,000 each employee for bodily injury by disease.

If Owner has not been included as an insured under the CGL using ISO additional insured endorsement CG 20 10 under the Commercial General and Umbrella Liability Insurance required in this Contract, the Contractor waives all rights against Owner and its officers, officials, employees, volunteers and agents for recovery of damages arising out of or incident to the Contractor's work.

## **E. GENERAL INSURANCE PROVISIONS**

1. **Evidence of Insurance.** Prior to beginning work, Contractor shall furnish Owner with a certificate(s) of insurance and applicable policy endorsement(s), executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth above.

All certificates shall provide for 30 days written notice to Owner prior to the cancellation or material change of any insurance referred to therein. Written notice to Owner shall be by certified mail, return receipt requested.

Failure of Owner to demand such certificate, endorsement or other evidence of full compliance with these insurance requirements or failure of Owner to identify a deficiency from evidence that is provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

Owner shall have the right, but not the obligation, of prohibiting Contractor or any subcontractor from entering the project site until such certificates or other evidence that insurance has been placed in complete compliance with these requirements is received and approved by Owner.

Failure to maintain the required insurance may result in termination of this Contract at Owner's option.

With respect to insurance maintained after final payment in compliance with a requirement above, an additional certificate(s) evidencing such coverage shall be promptly provided to Owner whenever requested.

Contractor shall provide certified copies of all insurance policies required above within 10 days of Owner's written request for said copies.

2. **Acceptability of Insurers.** For insurance companies which obtain a rating from A.M. Best, that rating should be no less than A VII using the most recent edition of the A.M. Best's Key Rating Guide. If the Best's rating is less than A VII or a Best's rating is not obtained, the Owner has the right to reject insurance written by an insurer it deems unacceptable.
3. **Cross-Liability Coverage.** If Contractor's liability policies do not contain the standard ISO separation of insureds provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.
4. **Deductibles and Self-Insured Retentions.** Any deductibles or self-insured retentions must be declared to the Owner. At the option of the Owner, the Contractor may be asked to eliminate such deductibles or self insured retentions as respects the Owner, its officers, officials, employees, volunteers and agents or required to procure a bond guaranteeing payment of losses and other related costs including but not limited to investigations, claim administration and defense expenses.
5. **Subcontractors.** Contractor shall cause each subcontractor employed by Contractor to purchase and maintain insurance of the type specified above. When requested by the Owner, Contractor shall furnish copies of certificates of insurance evidencing coverage for each subcontractor.

## **F. INDEMNIFICATION**

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner and the Architect and their officers, officials, employees, volunteers and agents from and against all claims, damages, losses and expenses including but not limited legal fees (attorney's and paralegal's fees and court costs), arising



out of or resulting from the performance of the Contractor's work, provided that any such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property, other than the work itself, including the loss of use resulting therefrom and (2) is caused in whole or in part by any wrongful or negligent act or omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, except to the extent it is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph. Contractor shall similarly protect, indemnify and hold and save harmless the Owner, its officers, officials, employees, volunteers and agents against and from any and all claims, costs, causes, actions and expenses including but not limited to legal fees, incurred by reason of Contractor's breach of any of its obligations under, or Contractor's default of, any provision of the Contract.

## SAMPLE LIABILITY INSURANCE ENDORSEMENT

**The following spaces preceded by an asterisk (\*) need not be completed if this endorsement and policy have the same inception date.**

ATTACHED TO AND FORMING PART OF POLICY NUMBER	*EFFECTIVE DATE OF ENDORSEMENT	*ISSUED TO
--	-----------------------------------	------------

This endorsement changes the policy. Please read it carefully.

### AUTOMATIC ADDITIONAL INSURED

The following provision is added to (SECTION II), Who Is An Insured.

5. Any entity you are required in a written contract (hereinafter called Additional Insured) to name as an insured is an insured but only with respect to liability arising out of your premises, "your work" for the Additional Insured, or acts or omissions of the Additional Insured in connection with the general supervision of "your work" to the extent set forth below.
- a. The Limits of Insurance provided on behalf of the Additional Insured are not greater than those required by such contract.
  - b. The coverage provided to the Additional Insured(s) is not greater than that customarily provided by the policy forms specified in and required by the contract.
  - c. All insuring agreements, exclusions and conditions of this policy apply.
  - d. In no event shall the coverages or Limits of Insurance in this Coverage Form be increased by such contract.

Except when required otherwise by contract, this insurance does not apply to:

- 1) "Bodily injury" or "property damage" occurring after
  - a) All work on the project (other than service, maintenance or repairs) to be performed by or on behalf of the Additional Insured(s) at the site of the covered operations has been completed; or
  - b) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.
- 2) "Bodily injury" or "property damage" arising out of any act or omission of the Additional Insured(s) or any of their employees, other than the general supervision of work performed for the Additional Insured(s) by you.
- 3) "Property damage" to
  - a) Property owned, used or occupied by or rented to the Additional Insured(s);
  - b) Property in the care, custody or control of the Additional Insured(s) or over which the Additional Insured(s) is for any purpose exercising physical control; or

- c) “Your work” for the Additional Insured(s).

With respect to Additional Insureds who are architects, engineers or surveyors, this insurance does not apply “bodily injury”, “property damage”, “personal injury” or “advertising injury” arising out of the rendering of or the failure to render any professional services by or for you, including:

- a) The preparing, approving, or failing to prepare or approve maps, drawings, opinions, reports, surveys, change orders, designs or specifications; and
- b) Supervisory, inspection or engineering services.

Any coverages provided hereunder shall be excess over any other valid and collectible insurance available to the Additional Insured(s) whether primary, excess, contingent or on any other basis unless a contract specifically requires that this insurance be primary or you request that it apply on a primary basis.

No person or organization is an Additional Insured with respect to the conduct of any current or past partnership or joint venture that is not shown as a Named Insured in the Declarations.

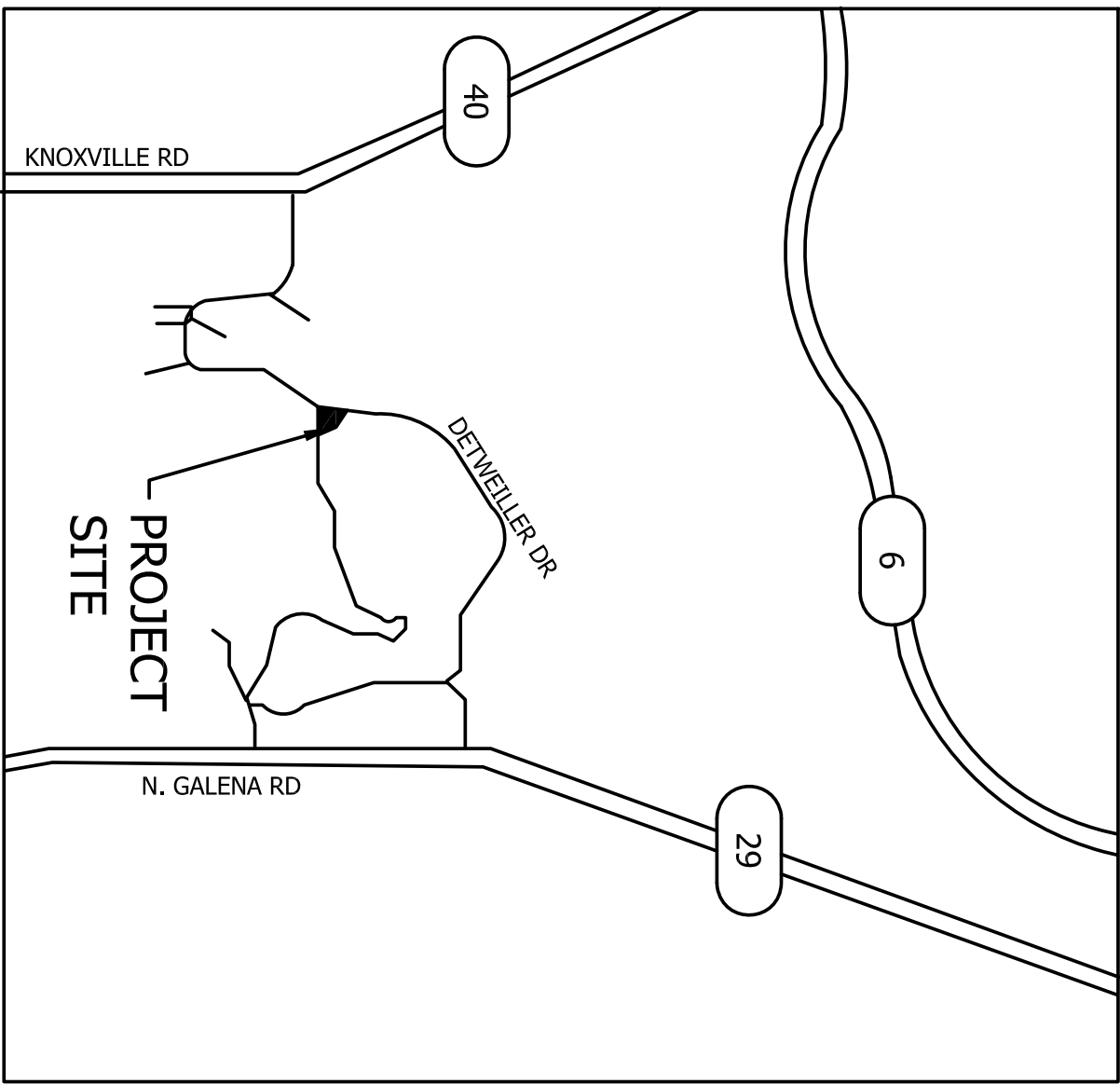
END OF ATTACHMENT A.6

PARK DISTRICT OF PEORIA  
PLANNING, DESIGN & CONSTRUCTION DIVISION

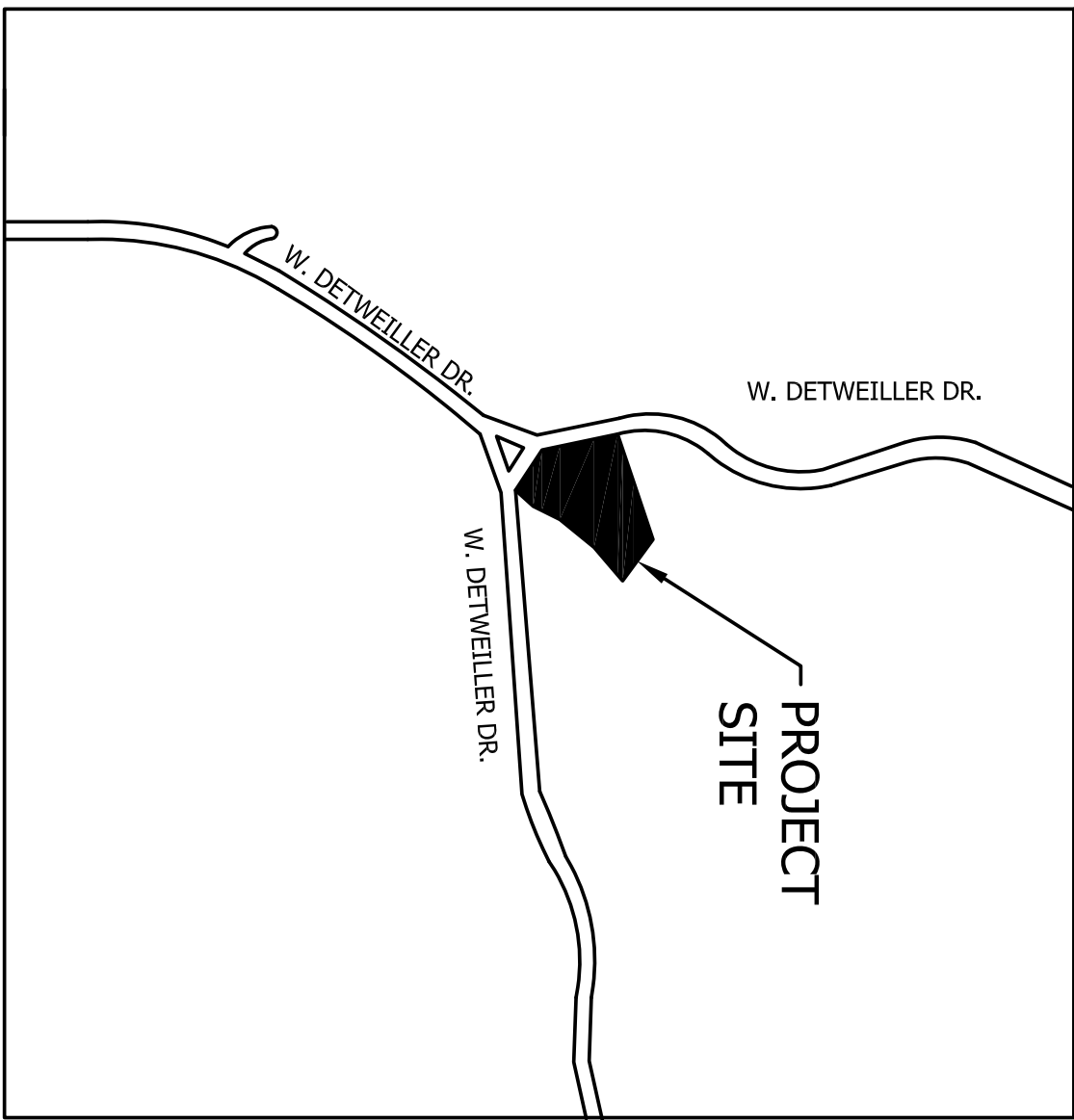
IMPROVEMENT PLANS  
FOR  
DETWEILLER PARK EROSION  
PEORIA, ILLINOIS

SUMMARY OF QUANTITIES			
No	DESCRIPTION	UNIT	QUANTITY
1	TEMPORARY TRAFFIC CONTROL	LSUM	1
2	TEMPORARY CONSTRUCTION ENTRANCE	LSUM	1
3	MOBILIZATION, DEMOBILIZATION & STAKING	LSUM	1
4	CLEARING, TREE REMOVAL AND PROTECTION	ACER	0.21
5	INLET REMOVAL	EACH	2
6	STORM PIPE REMOVAL	FOOT	72
7	PAVEMENT REMOVAL	SQ YD	142
8	EXCAVATION	CU YD	156
9	FURNISHED EXCAVATION	CU YD	825
10	EROSION CONTROL BLANKET	SQ YD	960
11	CONCRETE ANCHORS	EACH	4
12	24" DOUBLE WALL CORRUGATED HDPE PIPE (INCLUDE TRENCH & BACKFILL)	FOOT	42
13	24" SINGLE WALL CORRUGATED HDPE PIPE (INCLUDE TRENCH & BACKFILL)	FOOT	117
14	30" SINGLE WALL CORRUGATED HDPE PIPE (INCLUDE TRENCH & BACKFILL)	FOOT	20
15	4" PERFORATED PIPE (INCLUDE TRENCH & BACKFILL)	FOOT	110
16	CONCRETE HEADWALL	EACH	1
17	STORM SEWER MANHOLE WITH FRAME AND LID	EACH	3
18	STORM SEWER CURB INLET WITH FRAME, LID & HOOD	EACH	4
19	ASPHALT PAVEMENT	SQ YD	126
20	CONCRETE CURB & GUTTER	FOOT	36
21	FURNISHING AND PLACING TOPSOIL (9" MINIMUM)	SQ YD	960
22	SEEDING	ACRE	0.21
23	RIP RAP WITH FILTER FABRIC	SQ YD	53

SUMMARY OF QUANTITIES ARE FOR GENERAL INFORMATION PURPOSES ONLY AND SHALL NOT BE USED FOR BIDDING



VICINITY MAP



LOCATION MAP

INDEX OF SHEETS	
No.	TITLE
C-001	COVER SHEET
C-002	GENERAL NOTES & STANDARDS
C-003	EXISTING/PROPOSED DRAINAGE EXHIBIT
C-101	EROSION AND SEDIMENT CONTROL PLAN
C-102	DEMOLITION PLAN
C-103	GRADING AND PAVING PLAN
C-104	STORM SEWER PLAN & PROFILE
C-105	CROSECTIONS
C-501	DETAILS



No.	Revision/Issue	Date

Project Name and Address	
DETWEILLER PARK EROSION PARK DISTRICT OF PEORIA PEORIA, ILLINOIS	
COVER SHEET	



INFRASTRUCTURE  
ENGINEERING | INCORPORATED

456 Fulton Street | Suite 104 | Peoria, IL 61602  
P 309.637.9210 | F 309.637.9210 | www.infrastructure-eng.com

Project 14-2950-00	Date 07-31-2015	Scale 1"=20'	Designed By: AF	Checked By: KJK
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Know what's below.  
Call before you dig.

C-001

GENERAL NOTES

- THE BASE SURVEY PROVIDED IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SITE CONDITIONS.
- ALL WORK HEREIN PROPOSED SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES, REGULATIONS AND PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND PAYING THE ASSOCIATED FEES FOR CONSTRUCTION. HE/SHE SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE OWNER.
- ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- MINIMUM FORTY- EIGHT (48) HOURS (EXCLUDING SATURDAY, SUNDAY AND HOLIDAYS) BEFORE STARTING EXCAVATION. EACH CONTRACTOR SHALL CALL 311.LLLE AT (800) 741-5000 AND THE PROJECT MANAGER TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES STAKED.
- ALL REQUESTS FOR CLARIFICATION OR ADDITIONAL INFORMATION RELATIVE TO CONSTRUCTION METHODS OR ITEMS OR EQUIPMENT PRIOR TO BIDDING SHALL BE DIRECTED TO THE PROJECT MANAGER WHO WILL FURNISH IN WRITING SUCH INFORMATION OR CLARIFICATION REQUIRED. ANY DISCREPANCIES OR CONFLICTS ON THE PLANS, QUANTITIES, OR SPECIFICATIONS, DISCOVERED BY THE CONTRACTOR, EITHER PRIOR TO OR AFTER THE AWARD OF THE CONTRACT SHALL BE BROUGHT TO THE PROJECT MANAGERS ATTENTION BEFORE WORK HAS BEGUN SO THAT THE PROPER CORRECTIONS CAN BE MADE.
- NOTIFY THE OWNER AND ENGINEER IMMEDIATELY OF ANY CONFLICTS OR INTERFERENCE BETWEEN EXISTING AND PROPOSED UTILITIES.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, INSTALLATION AND REMOVAL OF ALL NON-PERMANENT CONSTRUCTIONS NECESSARY TO EXECUTE THE WORK, INCLUDING BUT NOT LIMITED TO SHORING. DESIGN MUST BE DONE IN A WAY TO MAINTAIN EXISTING OPERATING CONDITIONS AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR MUST REPAIR OR REPLACE EXISTING CONDITIONS DAMAGED DURING CONSTRUCTION BY, OR RELATED TO, CONSTRUCTION ACTIVITIES, AT NO ADDITIONAL COST TO THE OWNER. RESTORATION OF DAMAGE TO PUBLIC OR PRIVATE PROPERTY OUTSIDE THE LIMITS OF CONSTRUCTION AS SHOWN ON PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME. ANY DELAYS OR EXTENSIONS BY THE CONTRACTOR AT NO COST TO THE OWNER. THESE AREAS SHALL BE RESTORED AS NEARLY AS POSSIBLE TO THEIR ORIGINAL CONDITION OR BETTER, AND SHALL INCLUDE, BUT NOT LIMITED TO RESTORATION OF MAINTAINED LAWNS, RIGHT-OF-WAY, ROADWAYS, DRIVEWAYS, SIDEWALKS, DITCHES, BUSHES, HEDGES, TREES, SHRUBS, SEWERS, DRAIN TILES, WATER MAINS, ETC.
- ALL DISTURBED LANDSCAPED AREAS DUE TO PROPOSED CONSTRUCTION SHALL BE PROVIDED WITH NINE INCHES (9") OF TOPSOIL AND SEEDING. THE CONTRACTOR SHALL IRRIGATE THE SEEDING FOR MINIMUM OF TWO WEEKS.
- THE CONTRACTOR SHALL MAINTAIN ROADWAYS ADJOINING THE PROJECT SITE FREE FROM MUD AND DEBRIS AT ALL TIMES. IF MUD AND/OR DEBRIS IS/ARE CARRIED ONTO THE ROADWAYS FROM EITHER THE CONTRACTOR'S TRUCKS, HIS/HER EMPLOYEES VEHICLES, OR HIS/HER MATERIAL SUPPLIERS, THE CONTRACTOR SHALL IMMEDIATELY REMOVE SAID MUD AND/OR DEBRIS.
- ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWELVE MONTHS FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND WORKMANSHIP.
- THE CONTRACTOR SHALL DEFEND, INDEMNIFY, KEEP AND SAVE HARMLESS THE CITY, OWNER AND ENGINEER, AND THEIR RESPECTIVE BOARD MEMBERS, REPRESENTATIVES, AGENTS AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, CAUSED BY, GROWING OUT OF, OR INCIDENTAL TO THE PERFORMANCE OF THE WORK UNDER THE CONTRACT BY THE CONTRACTOR OR ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF ILLINOIS AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. THE CONTRACTOR MUST PROVIDE, AS REQUIRED BY THE JURISDICTION, TEMPORARY TRAFFIC, PARKING SIGNAGE, EQUIPMENT, AND PERSONNEL NECESSARY TO PROVIDE FOR SAFE AND EFFICIENT TRAFFIC FLOW IN ALL AREAS WHERE THE WORK WILL INTERRUPT IN ANY FORM, THE CONDITIONS OF TRAFFIC FLOW THAT EXISTED PRIOR TO THE COMMENCEMENT OF ANY PORTIONS OF THE WORK. THE PROJECT MANAGER MAY, AT HIS/HER DISCRETION, REQUIRE THE CONTRACTOR TO FURNISH TRAFFIC CONTROL UNDER OTHER CIRCUMSTANCES WHERE IN HIS/HER DISCRETION, THE PROJECT MANAGER DETERMINES THAT THE TRAFFIC CONTROL MEASURES IMPLEMENTED BY THE CONTRACTOR ARE NOT SUFFICIENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL TRAFFIC CONTROL MEASURES REQUIRED TO MAINTAIN THE PROJECT SPECIFICATIONS & STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL PROVIDE SAFE PEDESTRIAN ACCESS TO ADJACENT BUILDINGS AS REQUIRED BY THE OWNER.
- ALL DEBRIS AND SPOTS RESULTING FROM CONTRACTOR'S WORK ARE TO BE REMOVED FROM THE JOB SITE OR PLACED IN A RECEPTACLE PROVIDED BY THE CONTRACTOR IN A TIMELY FASHION OR AS REQUESTED BY THE OWNER.
- THE CONTRACTOR SHALL MAINTAIN A CONSTRUCTION FENCE WHERE REQUIRED INCLUDING GATES, POSTS, EXISTING FENCE, ETC., THROUGHOUT THE DURATION OF CONSTRUCTION AND DEMOLITION WORK. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION FENCING UPON COMPLETION OF SAID WORK.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT USERS, THE PUBLIC AND THE SITE FROM DAMAGE OR INJURY.

EXISTING CONDITIONS NOTES

- TOPOGRAPHIC SURVEY WAS PREPARED BY FARNSWORTH GROUP ON MAY 20, 2014.
- SOIL BORINGS & GEOTECHNICAL REPORT WAS PREPARED BY WHITNEY & ASSOCIATES ON JULY 17, 2015.

DESIGN STANDARDS

- STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, PUBLISHED BY IDOT, JANUARY 2012.
- SUPPLEMENTAL SPECIFICATIONS AND REQUIRING SPECIAL PROVISIONS, PUBLISHED BY IDOT, JANUARY 2013.
- MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS FOR PROPRIETARY PRODUCTS DETERMINED TO BE USED FOR THIS PROJECT.

OWNER PROJECT MANAGER

MICHAEL FRIBERG  
PHONE: 309-686-3386

IEI PROJECT MANAGER

THU TRUITT  
PHONE: 309-637-9200

DEFINITIONS

ME	MATCH EXISTING
TC	TOP OF CURB
EX	EXISTING
G	GUTTER
F	FLOW LINE
LF	LINER FEET
SY	SQUARE YARD
SF	SQUARE FOOT
CV	CUBIC YARD
EA	EACH
EL	ELEVATION
INV	INVERT
IN	INLET
NH	MANHOLE
CB	CATCH BASIN
STA	STATION
HWF	HEADWALL
HDFE	HIGH DENSITY POLYETHYLENE
STD	STANDARD
DTL	DETAIL

LEGEND

EX	PR
CENTERLINE	
CONTOUR	
CURB & GUTTER	
LIMIT OF CONSTRUCTION	
R.O.W. LINE	
PARCEL LOT LINE	
SILT FENCE	
PARCEL	
HDFE PIPE	
PERFORATED PIPE	
SEEDING & EROSION CONTROL	
BLANKET	
RIPRAP	
INLET PROTECTION	
ASPHALT	
CATCH BASIN	
MANHOLE	
FLOW DIRECTION	
CONCRETE ANCHORS	
INLET	



Project Name and Address

DETWEILLER PARK EROSION  
PARK DISTRICT OF PEORIA  
PEORIA, ILLINOIS

GENERAL NOTES & STANDARDS



INFRASTRUCTURE  
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Project	Date	Scale	Designed By:	Checked By:
14-2950-00	07-31-2015	1"=20'	AF	KJK

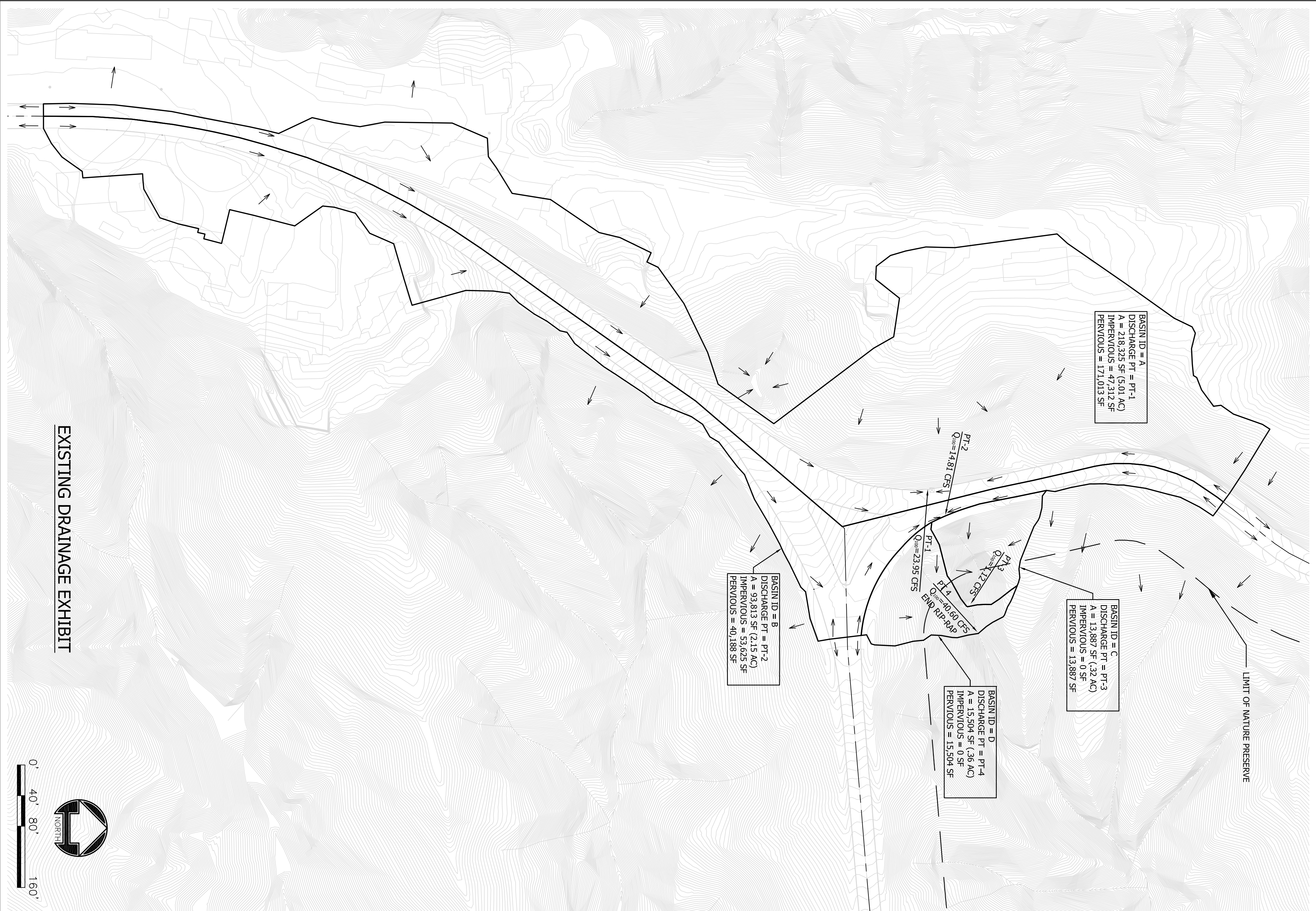
No.	Revision/Issue	Date

Sheet 2

C-002

811  
Know what's below.  
Call before you dig.





Sheet 3

C-003

811

Know what's below.  
Call before you dig.

Project

14-2950-00

Date

07-31-2015

Scale

1" = 80'

Designed By:

AF

Checked By:

KJK

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ENGINEERING | INCORPORATED

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Project Name and Address

DETWEILLER PARK EROSION  
PARK DISTRICT OF PEORIA  
PEORIA, ILLINOIS

EXISTING/PROPOSE DRAINAGE EXHIBIT

No.	Revision/Issue	Date



KENOTES

- 1
- TEMPORARY SEEDING PER IDOT SECTION 250, TABLE 1 AND NOTE 2 BELOW
- 2
- EROSION CONTROL BLANKET PER DTL 7, SHEET C-502
- 3
- INLET PROTECTION PER IDOT STD. 280001-407
- 4
- PERMANENT SEEDING PER NOTE 2 BELOW

NOTES

1.
- REFER TO THE EROSION AND SEDIMENT CONTROL NOTES FOR SOIL STABILIZATION. TEMPORARY SEEDING MAY BE REPLACED WITH PERMANENT SEEDING ONLY IF WEATHER AND SEASONAL CONDITIONS ALLOW FOR IT PER THE REQUIREMENTS OF THE SEED MIX MANUFACTURER.
2.
- PERMANENT SEED MIX SHALL BE ACCORDING TO SECTION 3.29200 OF THE SPECIFICATIONS.
3.
- CONTRACTOR SHALL COORDINATE WITH ILLINOIS NATURE PRESERVE COMMISSION AT THE PARK DISTRICT BEFORE ORDERING THE SEED MIX.

SCHEDULE/SEQUENCE OF CONSTRUCTION

1.
- INSTALL TRAFFIC CONTROL AT DETWEILLER DR
2.
- INSTALL TREE PROTECTION AT LIMIT OF CONSTRUCTION
3.
- INSTALL TRAFFIC CONTROL
4.
- BENCH MARKING OF TREES AND SHRUBS
5.
- REMOVE TOPSOIL
6.
- RE-GRADE SLOPE
7.
- INSTALL STORM SYSTEM
8.
- APPLY TOPSOIL, SEEDING AND BLANKET
9.
- REPLACE STORM STRUCTURES
10.
- INSTALL NEW STRUCTURES AND PIPES
11.
- INSTALL RIPRAP
12.
- CONSTRUCT PAVEMENT
13.
- REMOVE ALL TRAFFIC CONTROL

FEMA FLOOD HAZARD

THIS PROJECT IS LOCATED WITH ZONE C WHICH IS DEFINED AS AREA OF MINIMAL FLOODING PER FIRM MAP PANEL # 1705370001B.

PROJECT SUMMARY

THE PROJECT SITE IS LOCATED WITHIN DETWEILLER PARK IN PEORIA, ILLINOIS. THE GULLY LOCATED EAST OF THE PROJECTED "V" INTERSECTION OF WEST DETWEILLER DRIVE IS ERODING. THE TWO STORM SEWER INLETS IN DETWEILLER DRIVE RELEASE DIRECTLY INTO THE GULLY, WHICH ESCALATES THE EROSION. THE GROUND EAST OF DETWEILLER DRIVE HAS COLLAPSED INTO THE GULLY AND IS ENCROACHING ON THE PAVEMENT.

THE PROPOSED IMPROVEMENTS WILL INCLUDE REPLACING THE STORM PIPES AND INLETS IN THE DETWEILLER DRIVE PAVEMENT. INSTALLING STORM PIPES AND STRUCTURES TO OUTFALL THE STORM SEWER SYSTEM 150 FEET EAST OF THE ROAD TO DISSIPATE THE STORM WATER SPEED AND MITIGATE EROSION. THE GULLY WILL BE RE-GRADED AND STABILIZED WITH STRUCTURAL AND VEGETATED BEST MANAGEMENT PRACTICES. .

OWNER: PARK DISTRICT OF PEORIA  
OWNER CONTACT: MICHAEL FRIBERG  
1314 NORTH PARK ROAD  
PEORIA, ILLINOIS 61604  
309-686-3386 PHONE  
309-686-3383 FAX

LOCATION: "V" INTERSECTION OF WEST DETWEILLER DRIVE.  
LATITUDE: 40 ° 47' , 22"  
LONGITUDE: -89° 35', 33"

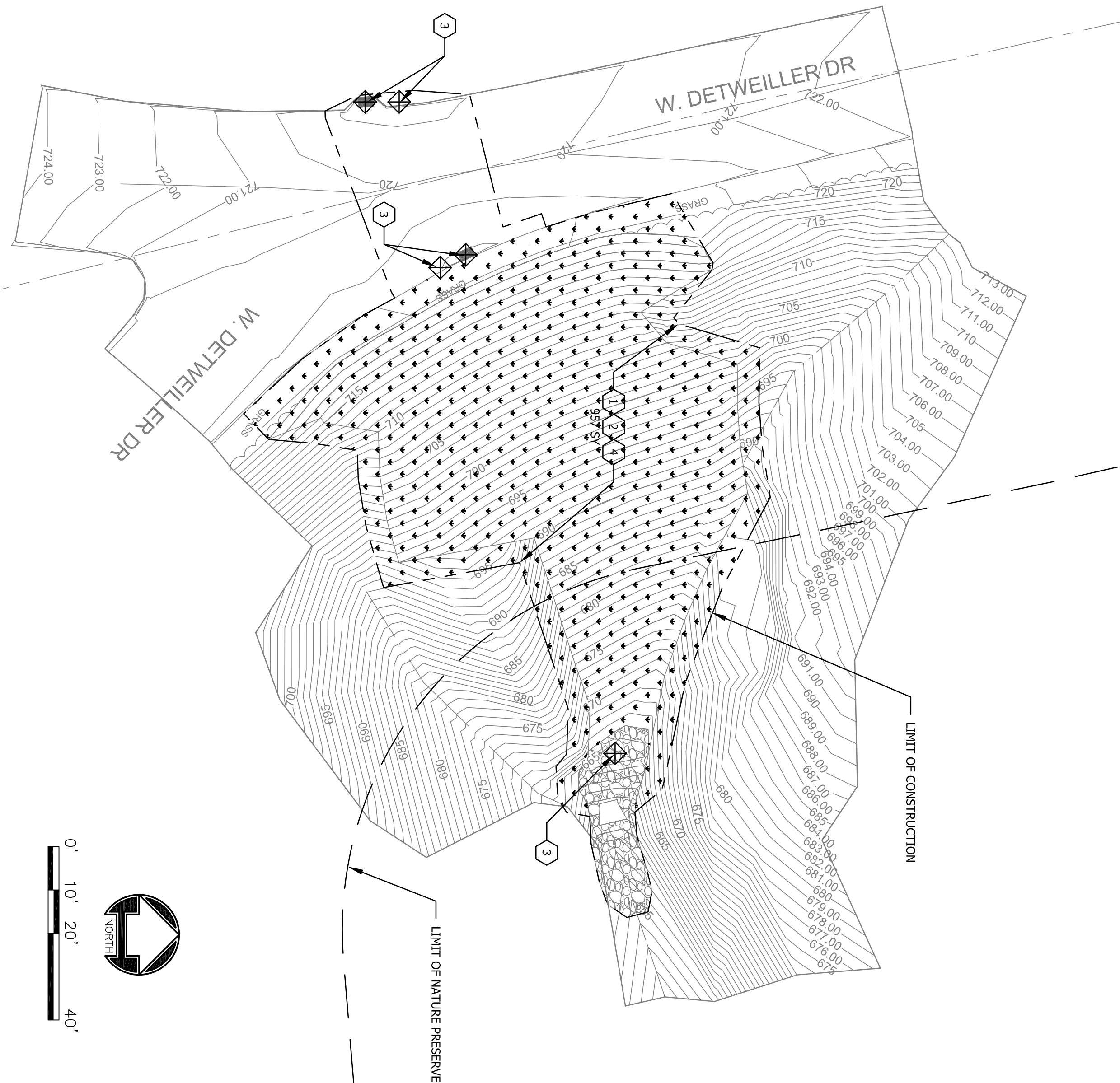
TOTAL DISTURBANCE AREA = 0.20 ACRES  
NET INCREASE OF PERMANENT IMPERVIOUS AREA = 0 ACRES

DESIGN STANDARDS

1.
- STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, PUBLISHED BY IDOT, JANUARY 2012.
2.
- SUPPLEMENTAL SPECIFICATIONS AND REQUIRING SPECIAL PROVISIONS, PUBLISHED BY IDOT, JANUARY 2015.
3.
- ILLINOIS URBAN MANUAL AND STANDARD DRAWINGS, PUBLISHED BY THE ASSOCIATION OF ILLINOIS SOIL AND WATER CONSERVATION DISTRICTS.
4.
- MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS FOR PROPRIETARY PRODUCTS DETERMINED TO BE USED FOR THIS PROJECT.


EROSION CONTROL NOTES

1.
- THE SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENTATION CONTROL OF LOCAL GOVERNMENT AGENCIES, PROCEDURES AND STANDARDS FOR URBAN SOIL AND SEDIMENTATION CONTROL, IN ILLINOIS, AND TEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.
2.
- PRIOR TO COMMENCING LAND-DISTRIBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS, CONTRACTOR SHALL SUBMIT A EROSION CONTROL PLAN TO THE ENGINEER FOR REVIEW.
3.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
4.
- DURING ANY DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO THE CREEK OR STORM SEWER IS PROHIBITED.
5.
- PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED WITHIN 15 CALENDAR DAYS OF THE END OF ACTIVE SOIL DISTURBANCE.
6.
- BARRIERS AND ALL APPROPRIATE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY START OF SITE DISTURBING.
7.
- THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER ANY STORM EVENT IN EXCESS OF 1/2".
8.
- SHOULD THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF TEMPORARILY INCREASE DURING CONSTRUCTION, THEN ADDITIONAL MEASURES TO PROTECT ADJACENT FACILITIES AND PROPERTIES SHALL BE UNDERTAKEN.
9.
- THE TEMPORARY EROSION MEASURES SHALL REMAIN IN PLACE UNTIL ALL THE PERMANENT EROSION CONTROL ITEMS ARE FULLY FUNCTIONAL.
10.
- ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLES WASHDOWN FACILITIES, SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAY, ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED CONTINUOUSLY.
11.
- DUST SCREENING SHALL BE PROVIDED ON ALL CONSTRUCTION FENCING.
12.
- A COPY OF THE EROSION & SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
13.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ANY SUB CONTRACTORS WHO MAY PERFORM WORK ON THIS PROJECT OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL MEASURES AND PLANS.

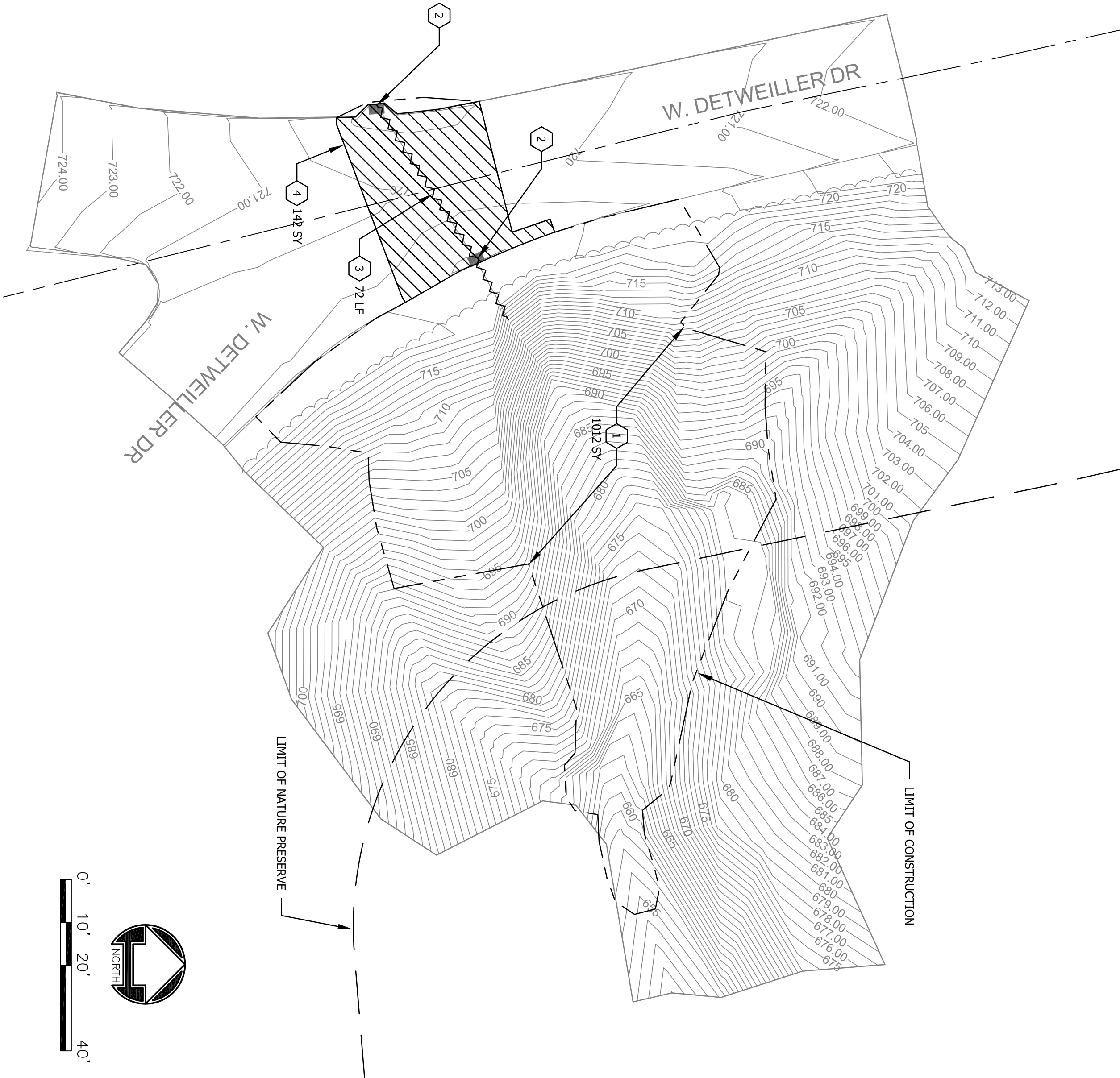


No.	Revision/Issue	Date

Project Name and Address	DETWEILLER PARK EROSION PARK DISTRICT OF PEORIA PEORIA, ILLINOIS
EROSION & SEDIMENT CONTROL PLAN	

<div><div><div>INFRASTRUCTURE ENGINEERING</div><div>INCORPORATED</div><div>456 Fulton Street   Suite 104   Peoria, IL 61602</div><div>P 309.637.9210   F 309.637.9210   www.infrastructure-eng.com</div></div></div>				
Project	Date	Scale	Designed By:	Checked By:
14-2950-00	07-31-2015	1"=20'	AF	KJK

- KEYNOTES
- 1 CLEARING, GRUBBING & TREE REMOVAL
  - 2 INLET REMOVAL
  - 3 15" STORM PIPE REMOVAL
  - 4 PAVEMENT REMOVAL



DEMOLITION NOTES

1. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN AND INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF PAVING, CURBING, STORM PIPE AND STRUCTURES, VEGETATION AND OTHER SITE FEATURES WHICH CONFLICT WITH THE CONSTRUCTION OF THE IMPROVEMENTS. THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS AND SPOILS TO ENSURE MINIMAL INTERFERENCE WITH PARK OPERATIONS.
2. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION. REMOVE FROM SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION AND LAWFULLY DISPOSE OF SAME.
3. THE CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER 48 HOURS IN ADVANCE OF ANY UTILITY SHUTDOWN IF REQUIRED.
4. IF ANY ITEMS ARE ENCOUNTERED IN THE FIELD THAT ARE NOT SHOWN ON THE PLAN WHICH REQUIRE DEMOLITION OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IMMEDIATELY.
5. THE CONTRACTOR SHALL PROTECT THE EXISTING UTILITIES. ANY DAMAGE BY THE CONTRACTOR TO UTILITIES, STREETS OR ADJACENT PROPERTIES WILL BE REPLACED/REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT AGAINST SETTLEMENTS, MOVEMENTS, AND ANY DAMAGE TO ADJACENT STRUCTURES TO REMAIN. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO ADJACENT STRUCTURES DURING CONSTRUCTION OR DEMOLITION. ANY REPAIR OR REPLACEMENTS SHALL BE ENTIRELY AT THE CONTRACTOR'S EXPENSE.



No.	Revision/Issue	Date

DETWEILLER PARK EROSION  
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DEMOLITION PLAN



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Project 14-2950-00	Date 07-31-2015	Scale 1"=20'	Designed By: AF	Checked By: KJK
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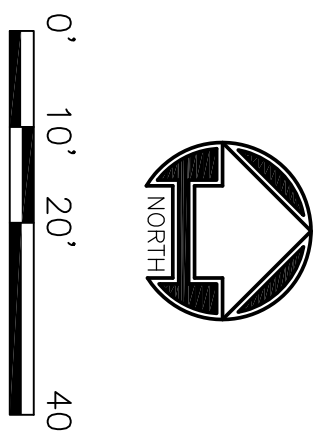


1 CURB & GUTTER TYPE B6.12 PER IDOT STD 606001-06

2 ASPHALT PAVEMENT PER DTL 5, C-501

3 RIPRAP PER DTL 2, C-501

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO THE ENGINEER PRIOR TO COMMENCING WORK.



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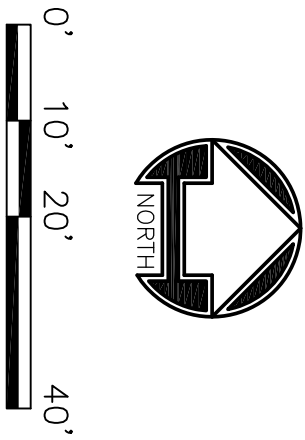
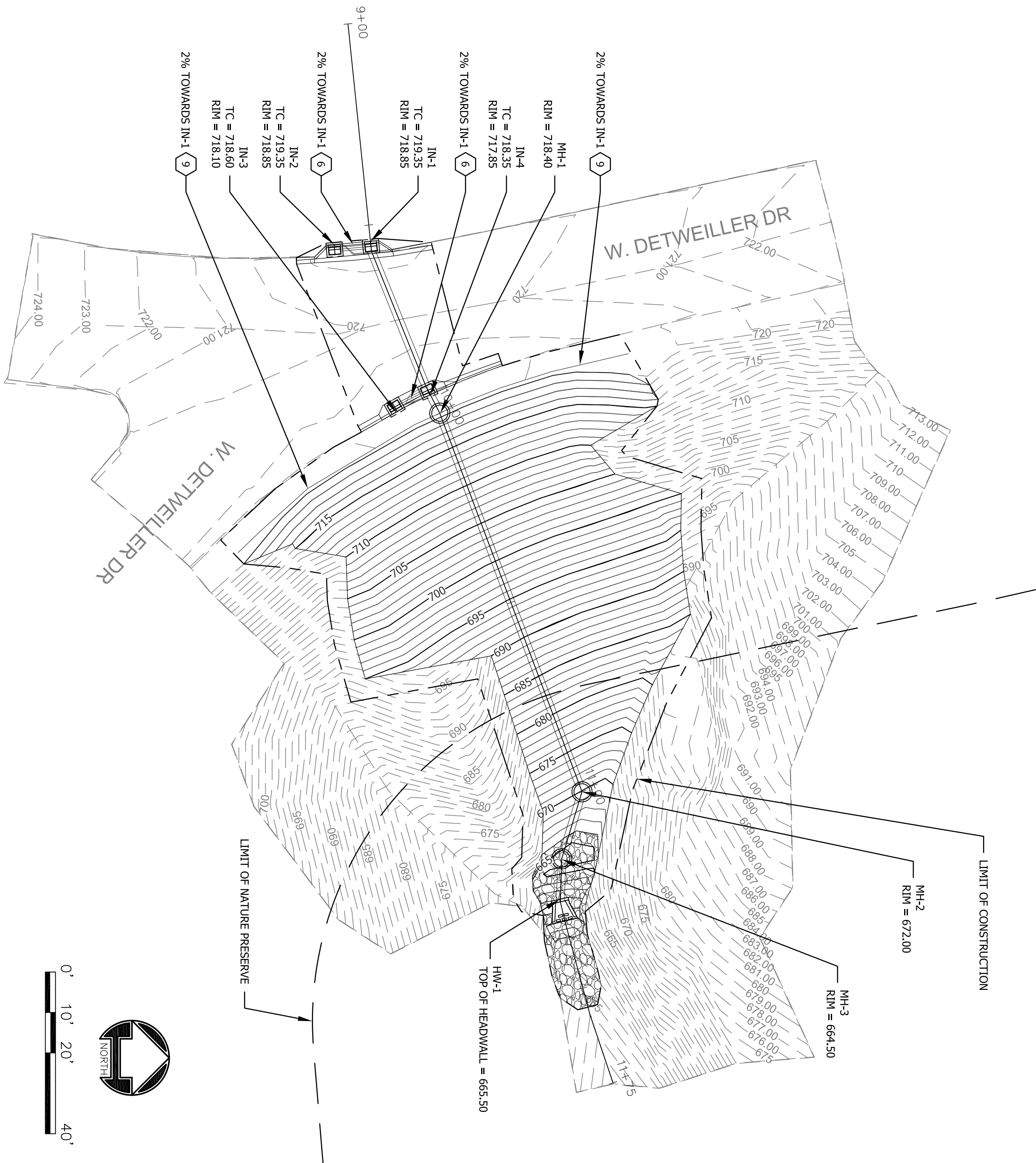
## GRADING & PAVING PLAN

KEYNOTES

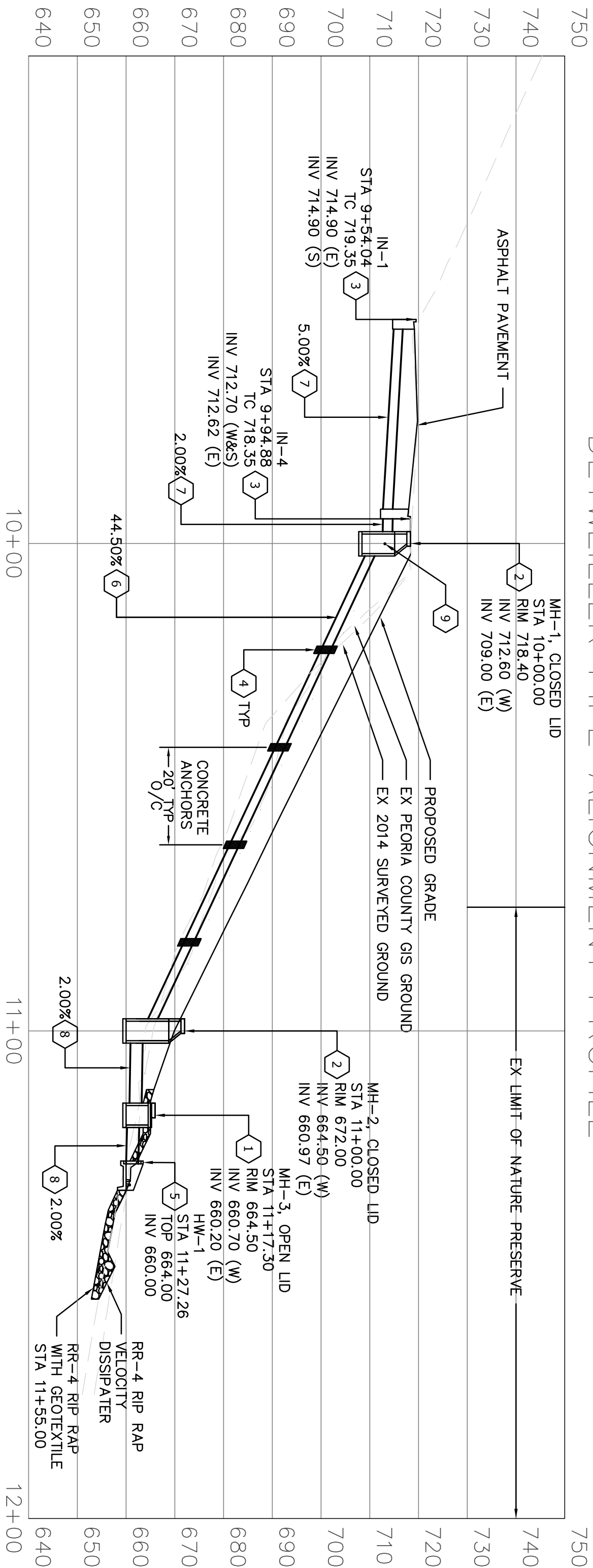
- 1
- MANHOLE W/ FLAT SLAB TOP, OPEN LID, PER IDOT STD 602406-06
- 2
- MANHOLE, CLOSE LID, PER IDOT STD 602401-03
- 3
- CURB INLET PER DTL 4, C-501
- 4
- CONCRETE ANCHOR PER DTL 3, C-501
- 5
- 30" DIA. OLDCASTLE PRECAST PIPE CULVERT HEADWALL W/ DISSIPATORS
- 6
- 24" SINGLE WALL CORRUGATED HDPE PER DTL 6, C-501
- 7
- 24" DOUBLE WALL CORRUGATED HDPE PER DTL 6, C-501
- 8
- 30" SINGLE WALL CORRUGATED HDPE PER DTL 6, C-501
- 9
- 4" PERFORATED PIPE PER DTL 6, C-501

NOTES

1.
- CONTRACTOR TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF PROPOSED STRUCTURES PRIOR TO ORDERING WITH SUPPLIER.
2.
- CONCRETE ANCHORS SHALL BE PLACED AT EVERY PIPE JOINT.



DETWEILLER PIPE ALIGNMENT PROFILE



No.	Revision/Issue	Date

DETWEILLER PARK EROSION  
PARK DISTRICT OF PEORIA  
PEORIA, ILLINOIS

GRADING PLAN

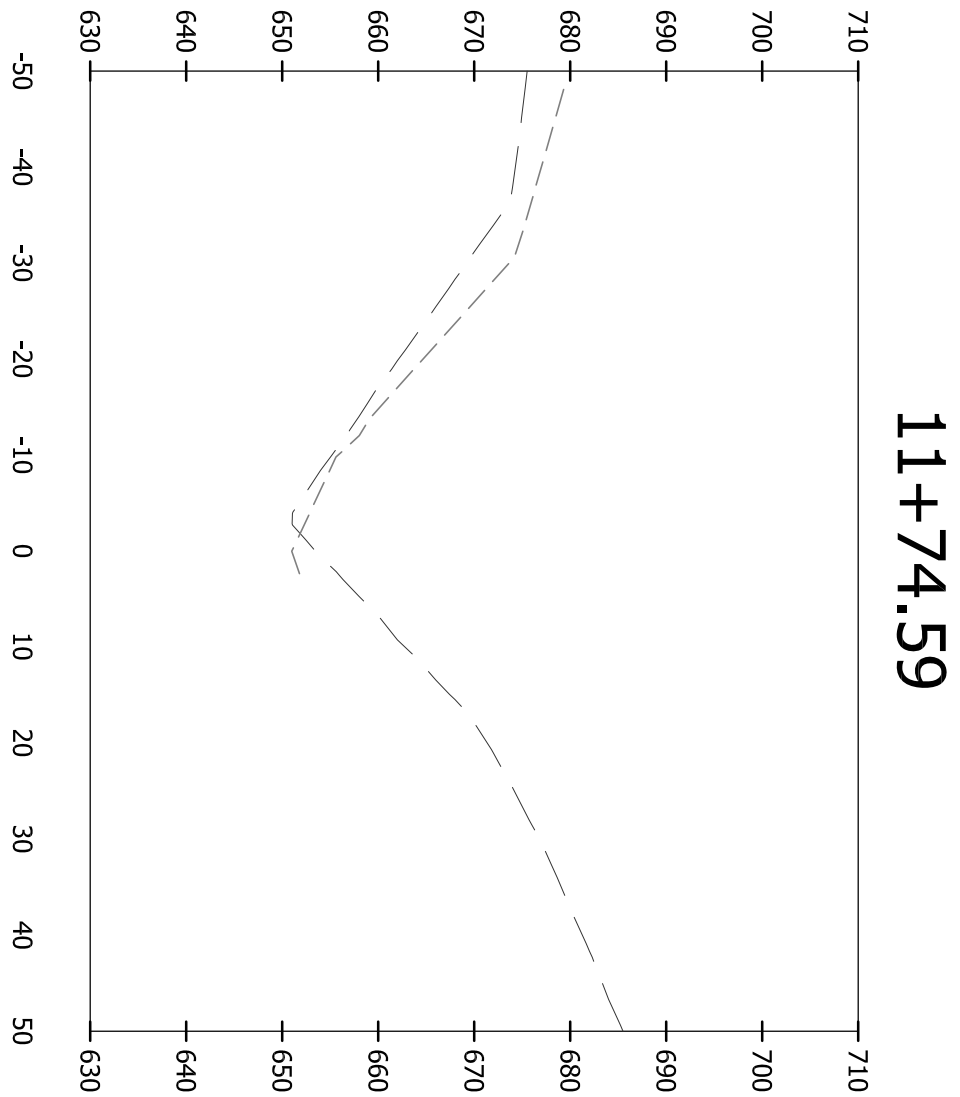
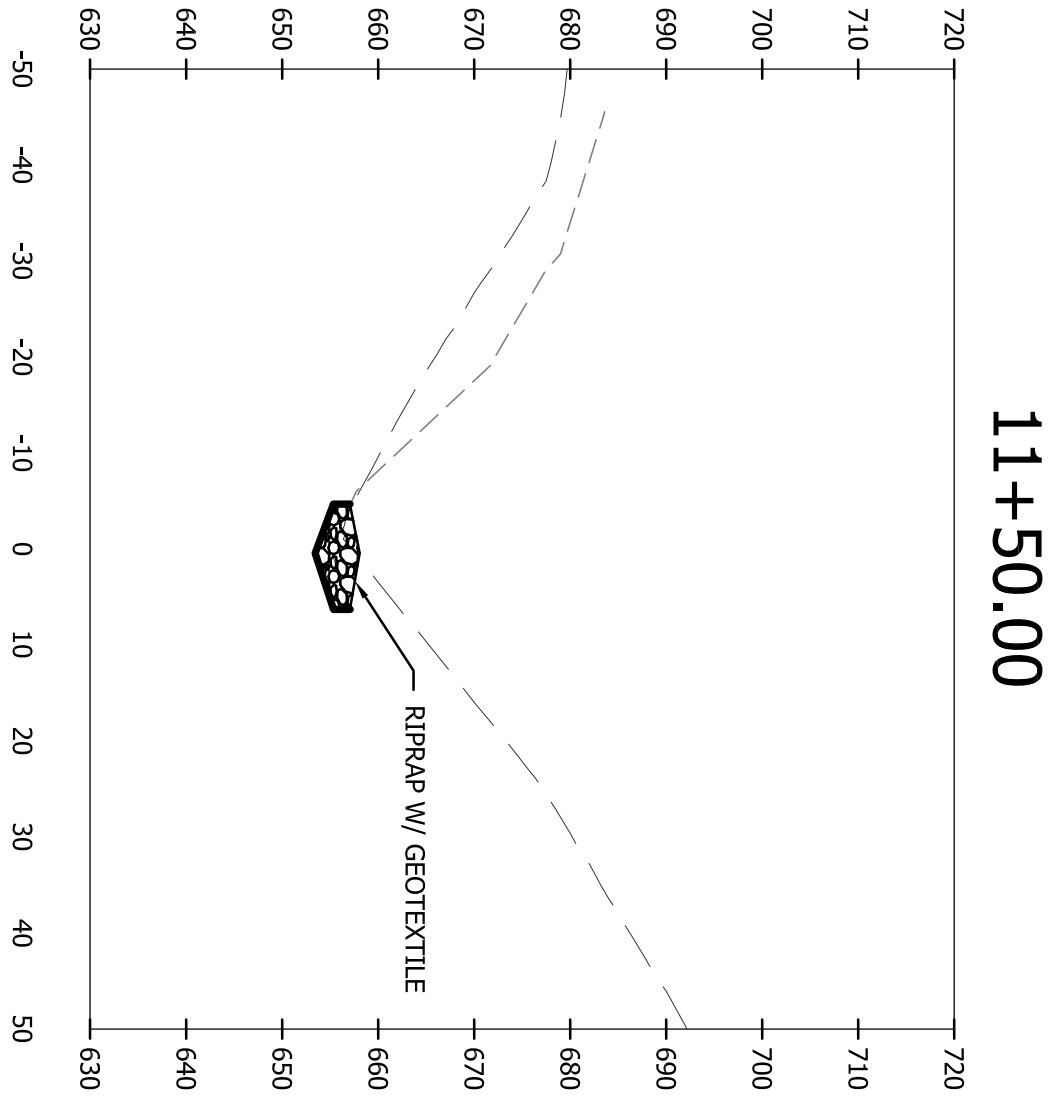
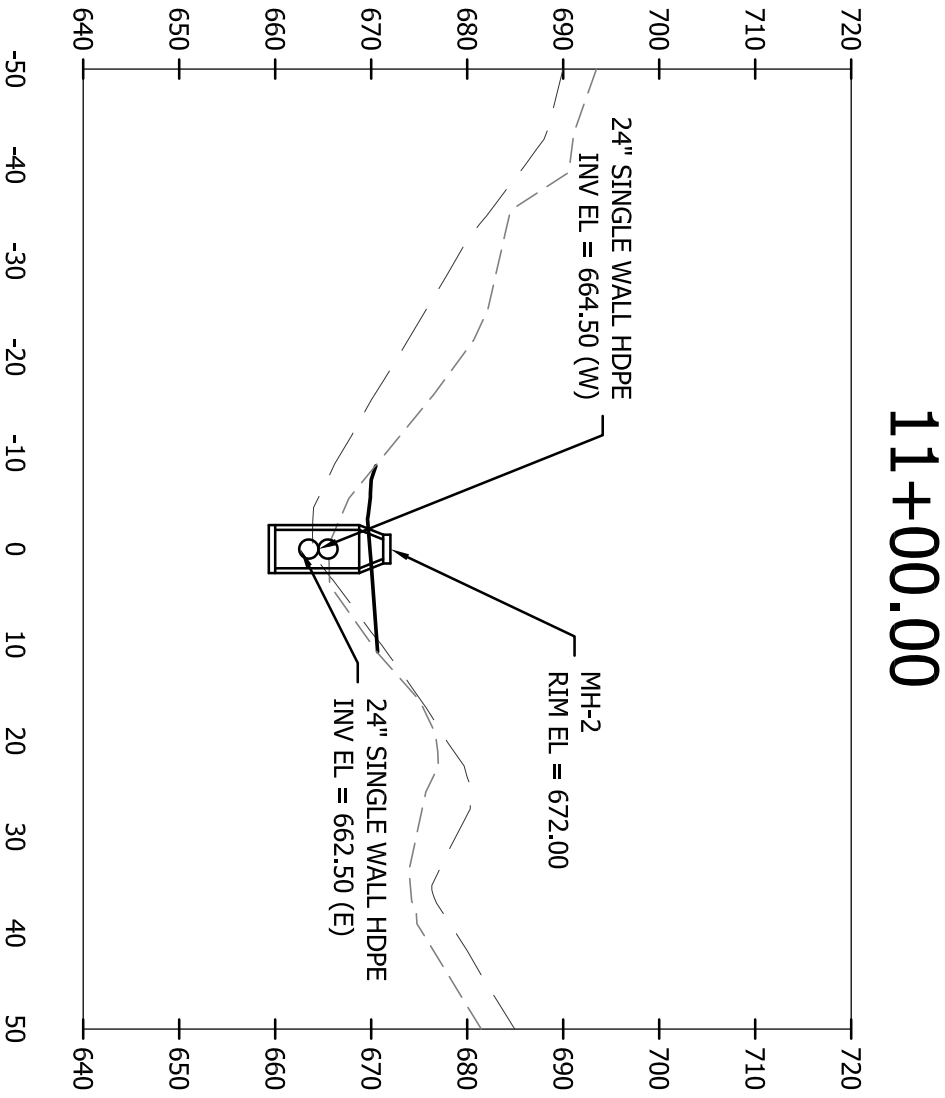
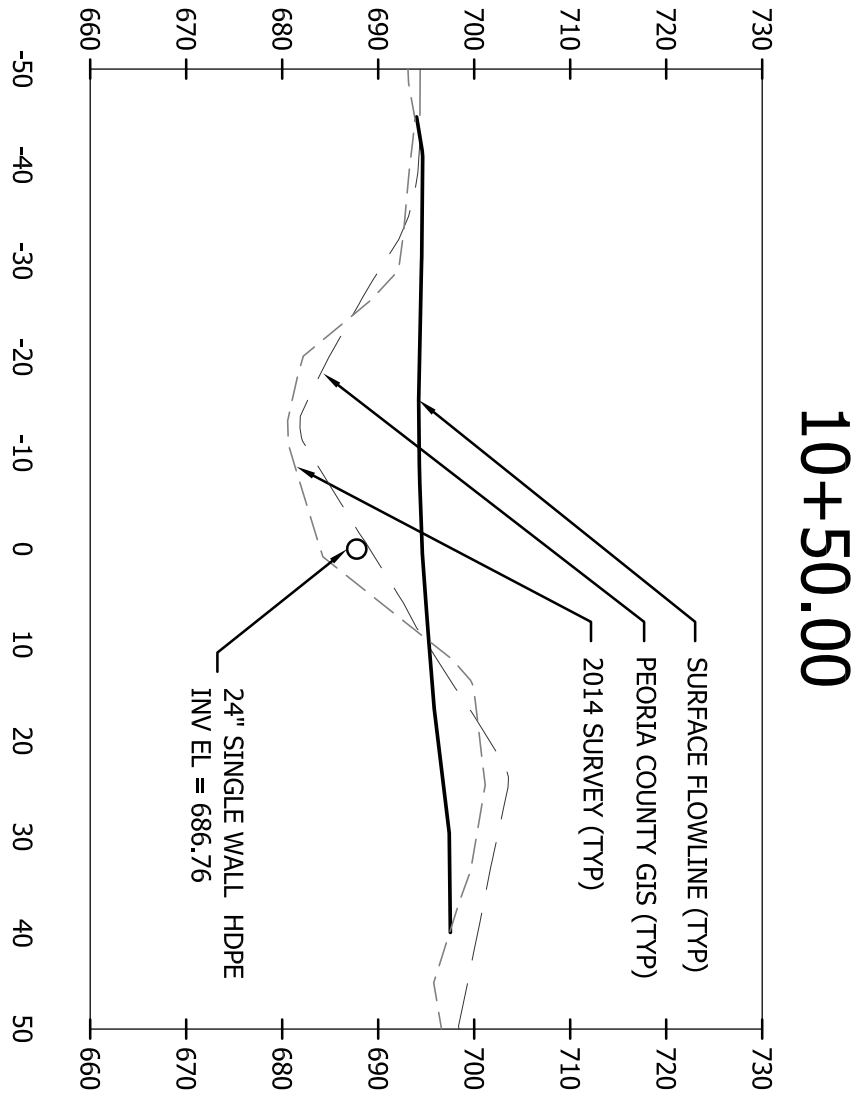
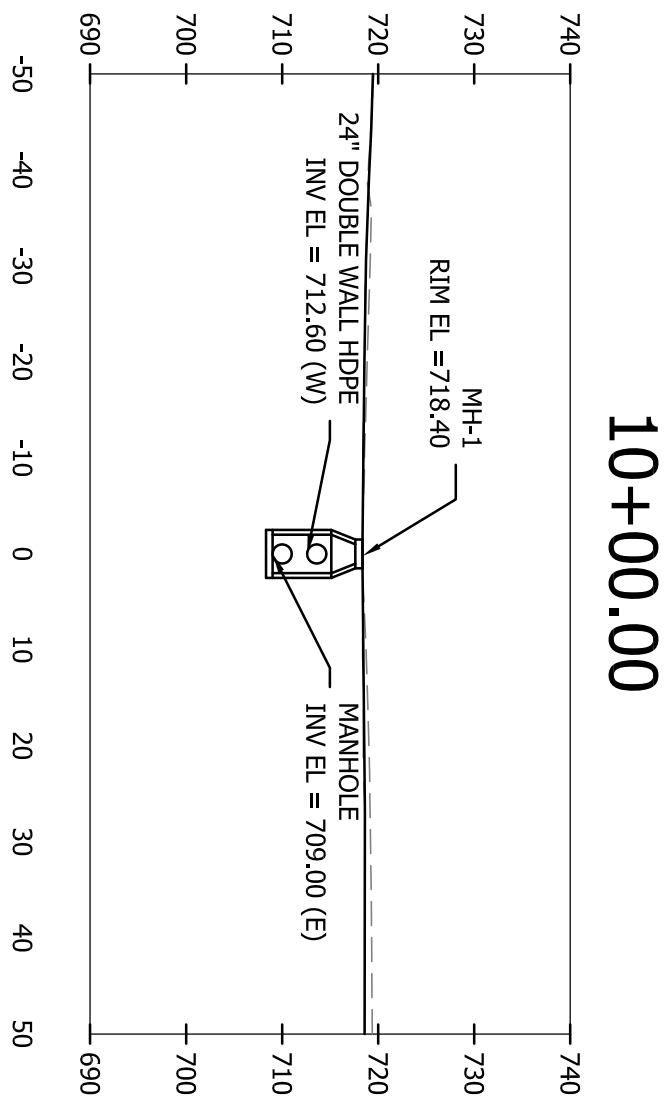
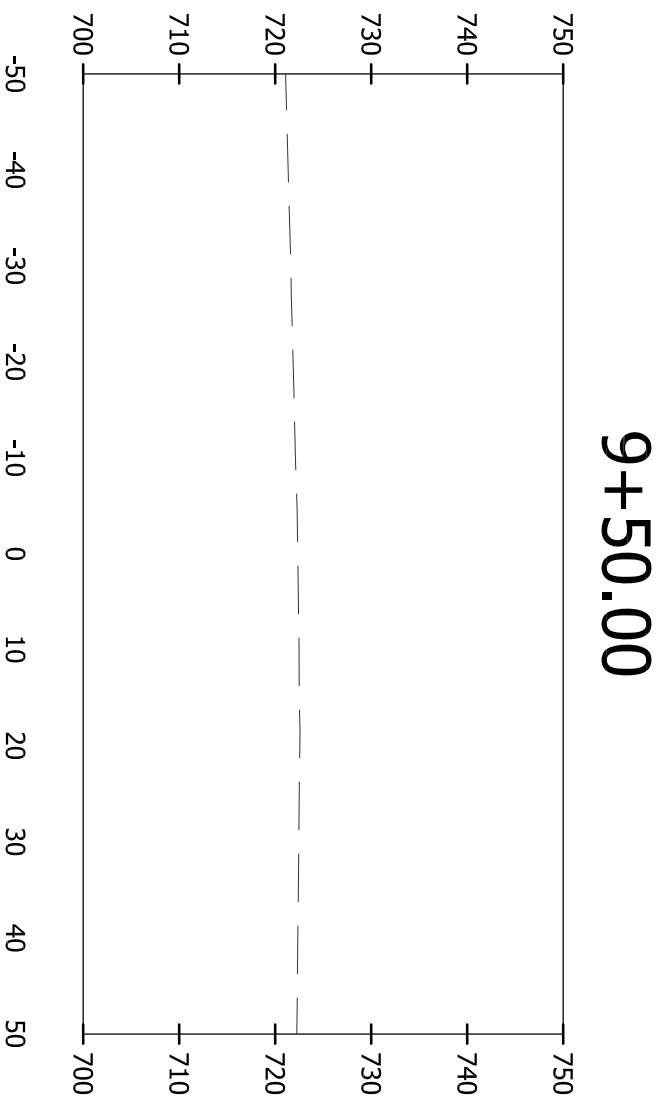
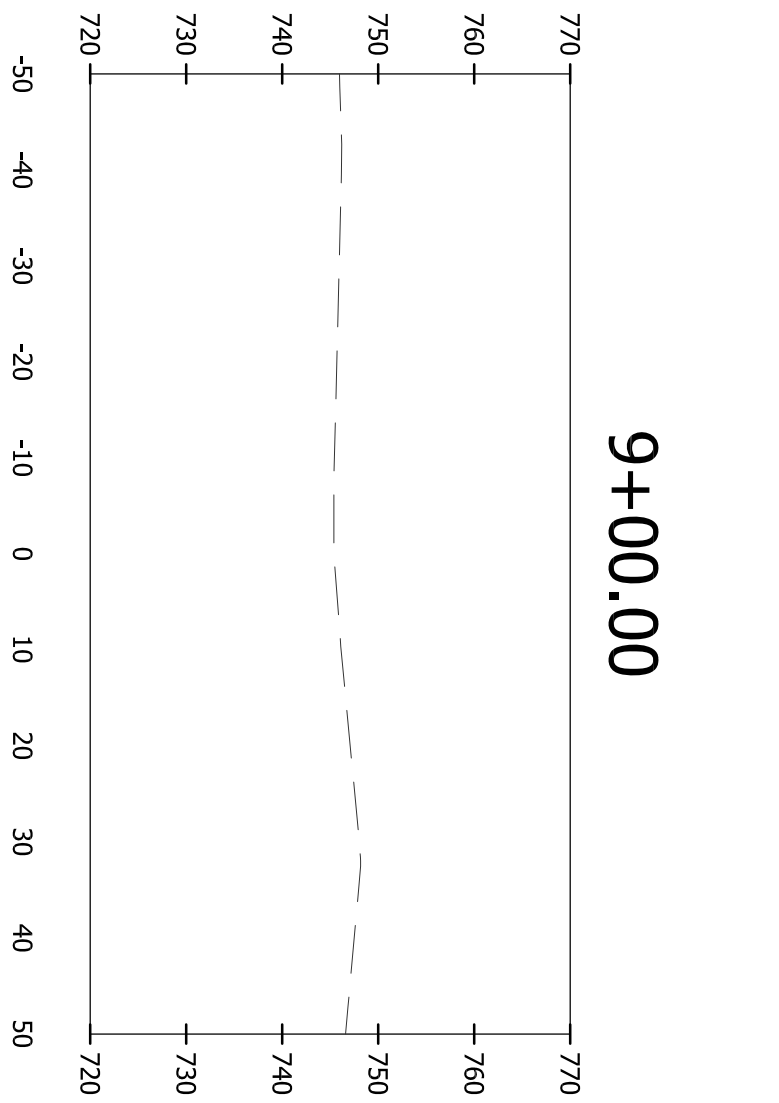
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C-104

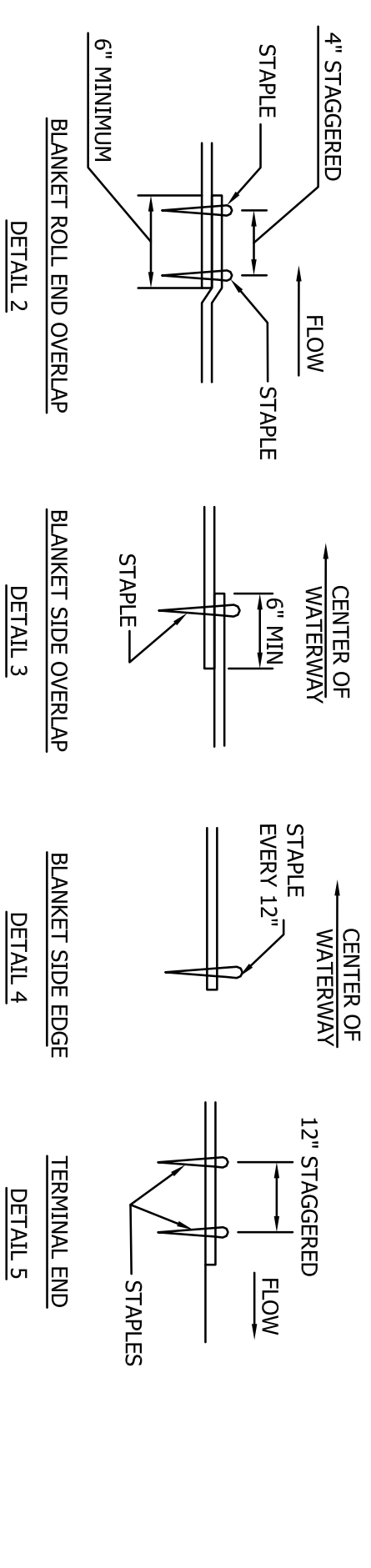
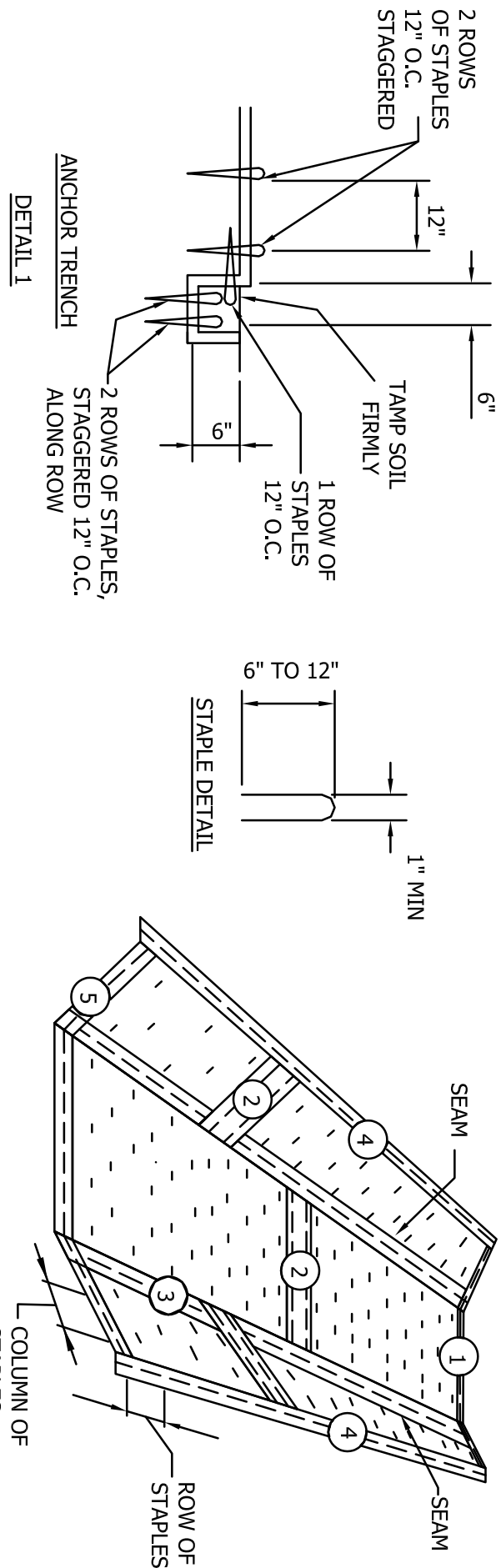
Sheet 7



No.	Revision/Issue	Date

Project Name and Address	DETWEILLER PARK EROSION PARK DISTRICT OF PEORIA PEORIA, ILLINOIS
CROSS SECTIONS	

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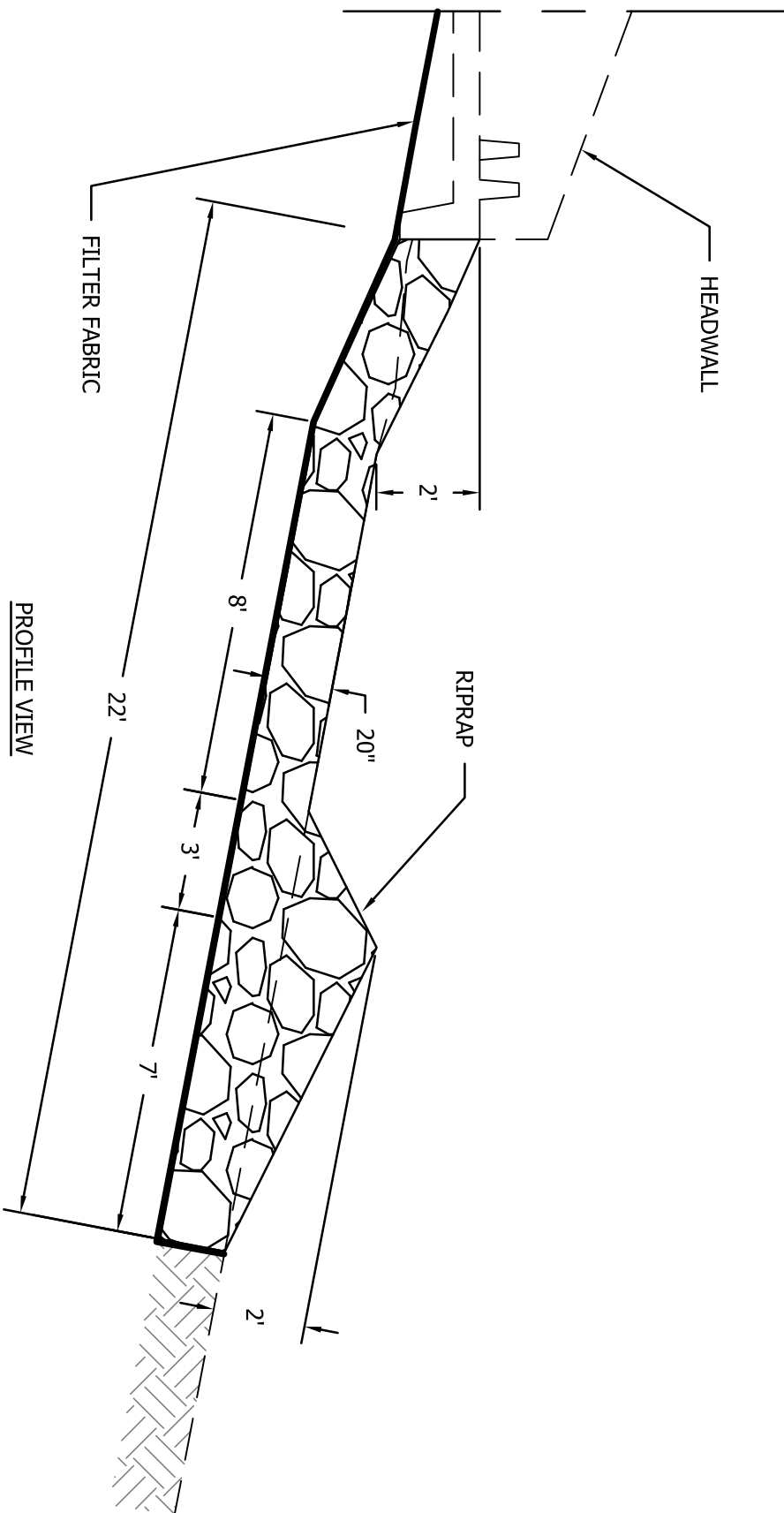


## NOTES

1. THE EROSION CONTROL BLANKET SHALL CONSIST OF A MACHINE PRODUCED MAT OF CURLED WOOD OR COCONUT FIBERS, SHALL HAVE AN EXPECTED MINERAL LIFE OF AT LEAST 12 MONTHS, SHALL BE NEW AND UNUSED, SHALL BE FURNISHED IN ROLLS.
2. PREPARE SOIL PRIOR TO INSTALLING EROSION CONTROL BLANKET, INCLUDING SEEDING, FERTILIZING.
3. THE EROSION CONTROL BLANKET SHALL BE LAPPED IN FIRM CONTACT WITH THE SOIL AND NOT BE ALLOWED TO BRIDGE OVER SURFACE DISTURBANCES.
4. THE EROSION CONTROL BLANKET SHALL BE ANCHORED, OVERLAPPED, AND STAPLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. IF NO MANUFACTURER'S INSTRUCTIONS ARE AVAILABLE, INSTALL THE BLANKET AS FOLLOWS:
  - 4.1. STAPLES SHALL BE 1/2" SHAPED 0.12 IN DIAMETER WIRE OR GREATER (#11 GAUGE). SEE STAPLE DETAIL FOR DIMENSIONS.
  - 4.2. BURY UPSTREAM END OF BLANKET IN A TRENCH 6 INCH WIDE BY 6 INCH DEEP AND STAPLED IN STAGGERED ROWS ACROSS THE WIDTH AS SHOWN IN DETAIL 1.
  - 4.3. FOR JOINING ENDS OF ROLLS, OVERLAP END OF UP-SLOPE BLANKET A MINIMUM OF 6 INCHES OVER DOWNSLOPE BLANKET (SHINGLE STYLE). USE A DOUBLE ROW OF STAGGERED STAPLES 4 INCHES APART, AS SHOWN IN DETAIL 2.
  - 4.4. BLANKETS ON SIDE SLOPES SHALL OVERLAP A MINIMUM 6 INCHES OVER THE BLANKET BELOW (SHINGLE STYLE). STAPLE OVERLAP AT 12 INCH INTERVALS. SEE DETAIL 3.
  - 4.5. THE OUTER EDGE ALONG SIDES OF THE BLANKET SHALL BE STAPLED EVERY 12 INCHES. SEE DETAIL 4.
  - 4.6. STAPLES ARE TO BE PLACED ALTERNATELY IN COLUMNS (IN THE DIRECTION OF THE WATERWAY) 2 FEET APART AND IN ROWS (ACROSS THE WATERWAY) 3 FEET APART, THROUGHOUT THE AREA COVERED BY EROSION BLANKET.
  - 4.7. DOWNSLOPE (TERMINAL) END OF BLANKET SHALL BE STAPLED WITH A DOUBLE ROW OF STAGGERED STAPLES 12 INCHES APART. SEE DETAIL 5.

## 1 EROSION CONTROL BLANKET

SCALE: N.T.S.

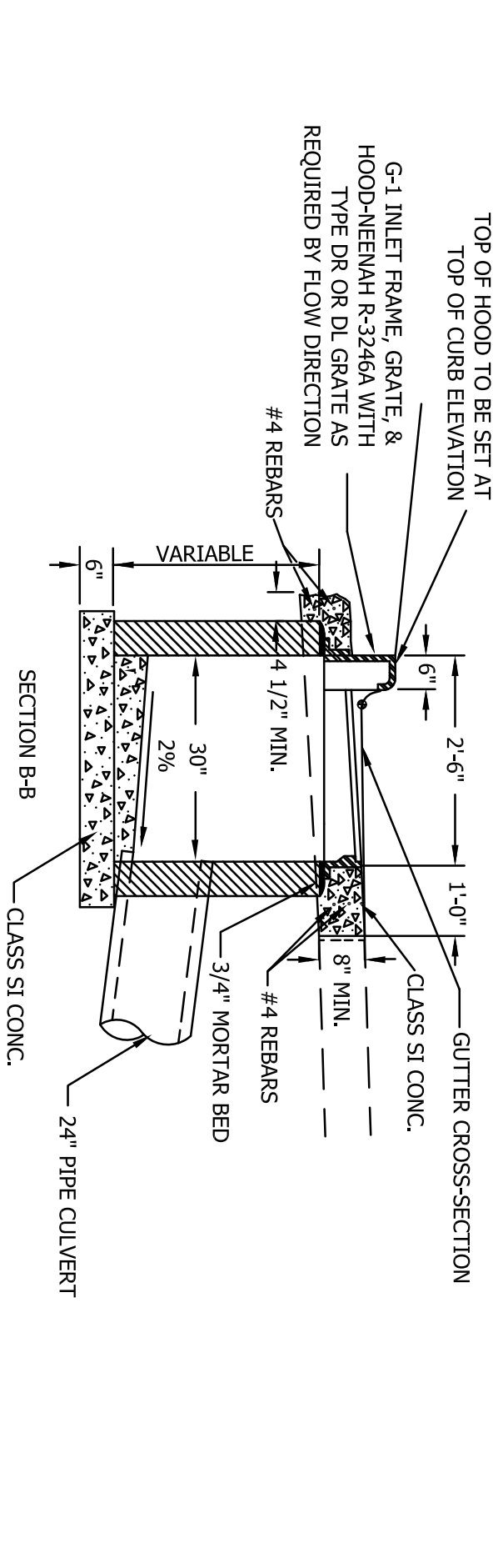
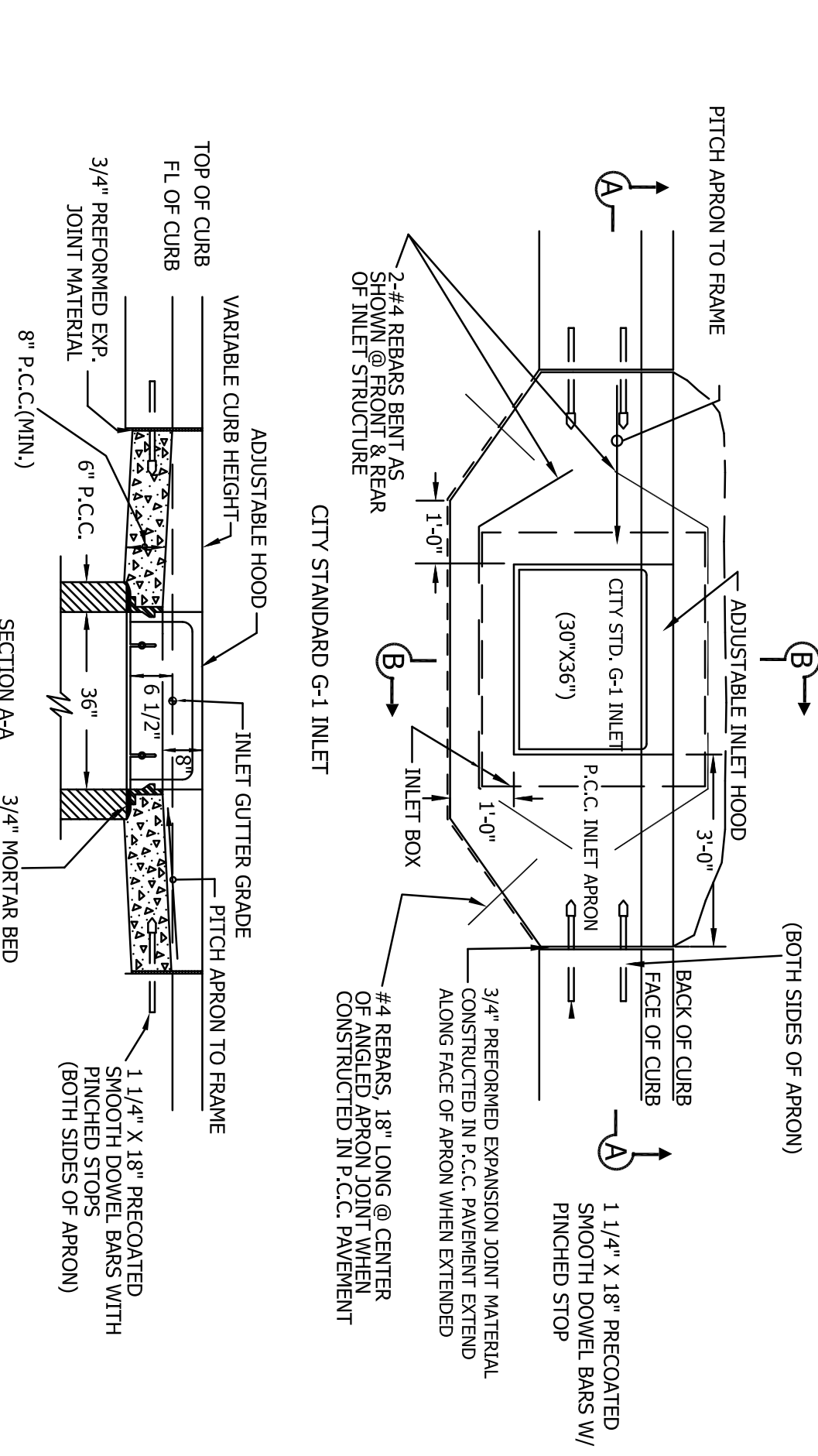


## NOTES

1. SEE SHEET C-103 FOR PLACEMENT OF RIPRAP BEHIND HEADWALL.

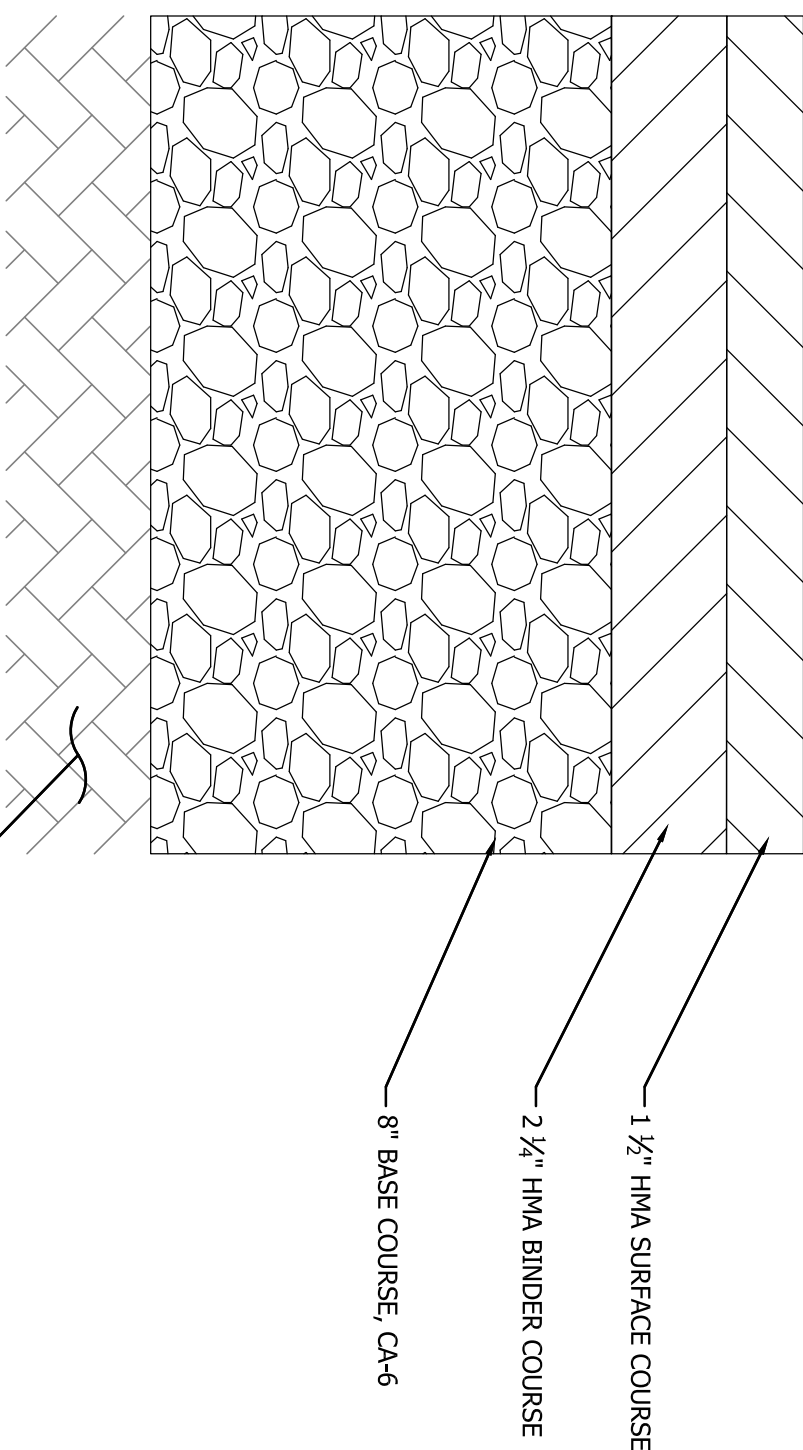
## 2 RIPRAP

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## 4 CURB INLET

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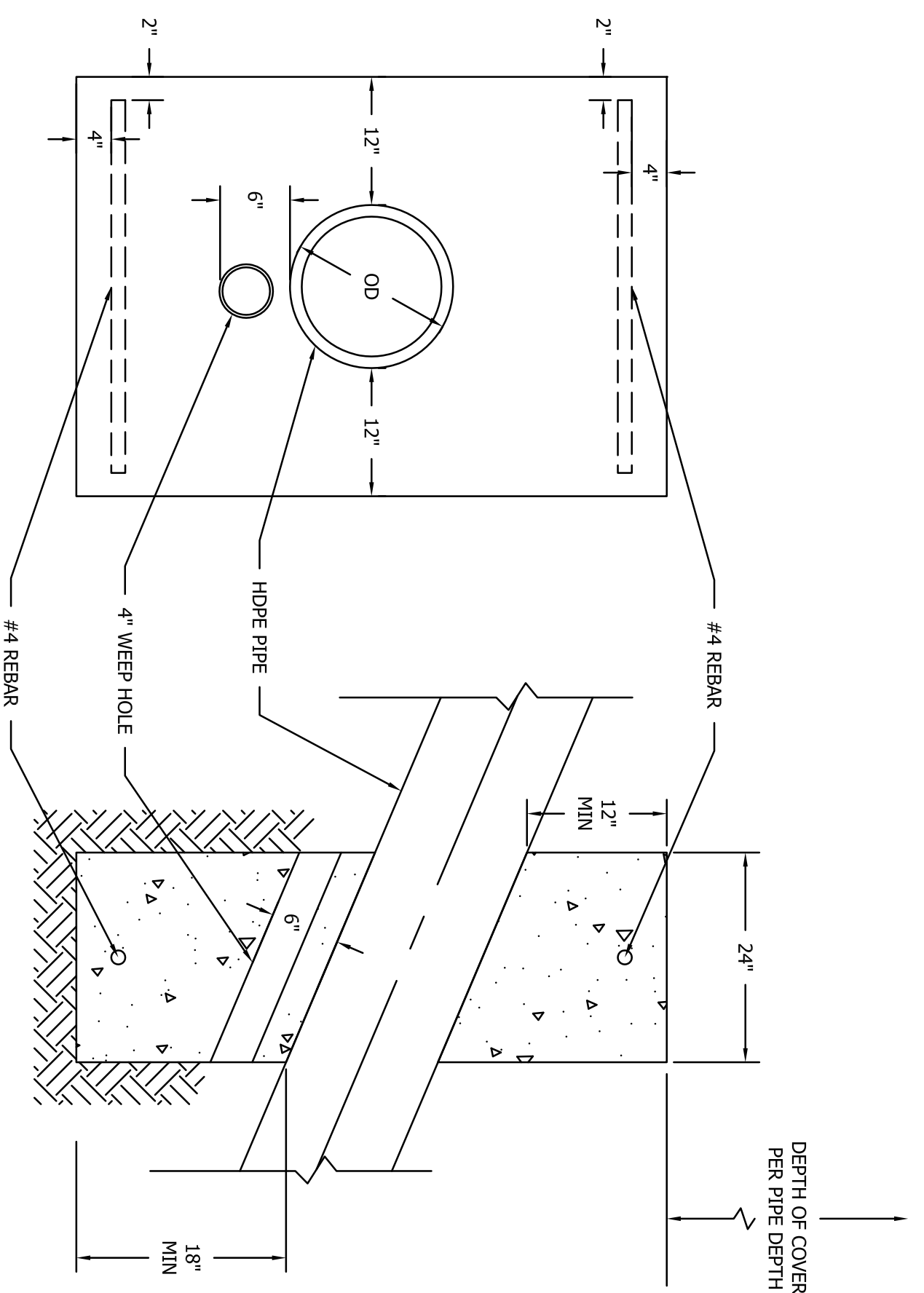


## NOTES

1. HMA PAVEMENT THICKNESS SHALL BE AS DEFINED ABOVE OR TO MATCH EXISTING THICKNESS, WHICHEVER IS GREATER.

## 5 ASPHALT PAVEMENT

SCALE: N.T.S.

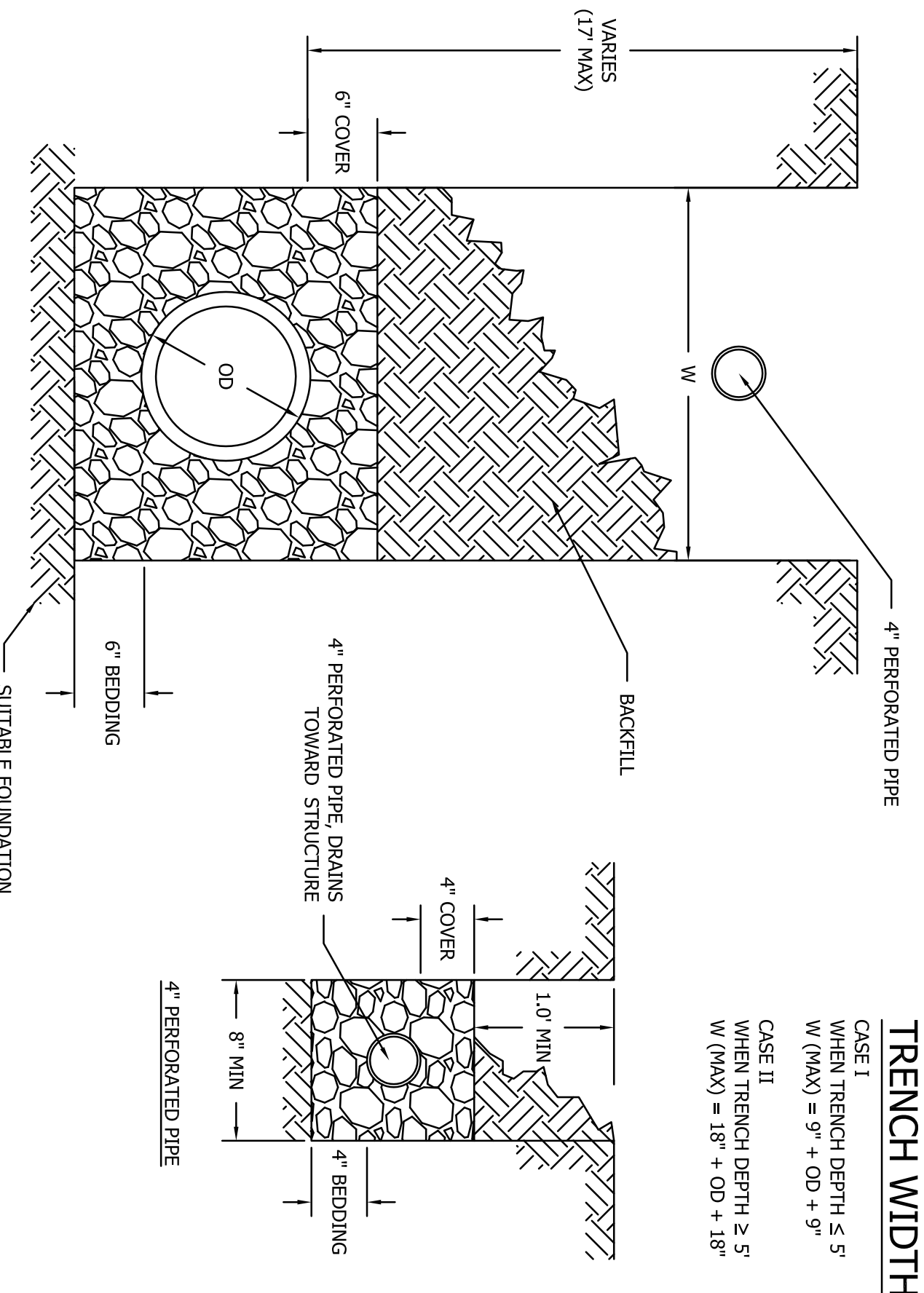


## NOTES

1. SEE STORM SEWER PLAN & PROFILE FOR ANCHOR SPACING.

## 3 CONCRETE ANCHOR

SCALE: N.T.S.

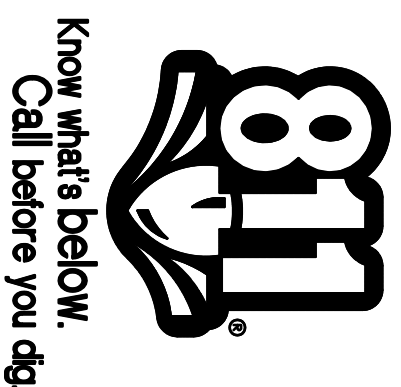


## NOTES

1. FOR TRENCH DEPTHS GREATER THAN 5', THE CONTRACTOR SHALL PROVIDE TRENCH PROTECTION ACCORDING TO APPLICABLE STANDARDS FOR WORK PLACE SAFETY.
2. TRENCH SHALL BE KEPT FREE OF WATER DURING CONSTRUCTION.
3. FILL ABOVE PIPE SHALL BE BACKFILL WITH SUITABLE MATERIAL APPROVED BY ONSITE ENGINEER.
4. SEE STORM SEWER PLAN & PROFILE SHEETS FOR LOCATION OF 4" PERFORATED PIPE.
5. 4" PERFORATED PIPE IS NOT INSTALLED UNDER ROAD.

## 6 FLEXIBLE PIPE TRENCH

SCALE: N.T.S.



C-501



DETWEILLER PARK EROSION  
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PEORIA, ILLINOIS

DETAILS

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