

CITY OF EVANSTON

SPECIFICATIONS AND BID DOCUMENTS
Construction Bid with Sub-contractors

BID NUMBER: 25-24

For

2025 Court Improvements: James, Leahy, Ackerman, and Mason Parks
April 10, 2025



BID DUE DATE: **2:00 P.M., Tuesday, April 29, 2025**

VIRTUAL BID OPENING: **2:15 P.M., Tuesday, April 29, 2025**
Google Meet ID: meet.google.com/erk-vjyw-pza
Phone Number: 617-675-4444
PIN: 491 020 418 0044#

BID BOND: **5% of Contract Amount**

**PERFORMANCE/MATERIAL
& LABOR PAYMENT BOND:** **100% of Contract Amount**

CONTRACT PERIOD: **Substantial Completion Deadline:**
September 26, 2025
Final Completion Deadline:
October 24, 2025

ELECTRONIC BID SUBMITTAL:

Bid responses will only be accepted electronically
via E-bidding through DemandStar (WWW.DEMANDSTAR.COM)

**It is highly recommended that new DemandStar users complete the account
setup process prior to project due date/time.**

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**CITY OF EVANSTON
NOTICE TO BIDDERS**

Bids will be received by the City's Purchasing Office until 2:00 P.M. local time Tuesday, April 29, 2025 and will be publicly read virtually via Google Meets at 2:15 P.M. Interested parties can use the following link: meet.google.com/erk-vjyw-pza or join by phone 617-675-4444 PIN: 491 020 418 0044# to access the virtual bid opening. The City of Evanston no longer accepts hard copy paper submittals for any solicitation. Responses will only be accepted electronically via E-bidding through DemandStar (www.demandstar.com). Although registration is required, vendors can download solicitations and upload responses for free. Bids shall cover the following:

2025 Court Improvements: James, Leahy, Ackerman, and Mason Parks
Bid Number: 25-24

Work on this project includes: The general court improvements to include, but not limited to, resurfacing of existing courts, renovation to existing fencing, and paving additions.

The above item shall conform to the Invitation for Bids on file in the Purchasing Office. Parties interested in submitting a bid should contact the Purchasing Office to receive a copy of the bid or see the City's website at: www.cityofevanston.org/business/bids-proposals/ or DemandStar at: www.demandstar.com.

The City of Evanston (the City) in accordance with the laws of the State of Illinois, hereby notifies all Bidders that it will affirmatively ensure that the contract(s) entered into pursuant to this Notice will be awarded to the successful Bidders without discrimination on the ground of race, color, religion, sex, age, sexual orientation, marital status, disability, familial status or national origin. The State of Illinois requires under Public Works contracts that the general prevailing rate of wages in this locality be paid for each craft or type of worker hereunder. This requirement is in accordance with The Prevailing Wage Act (820 ILCS 130) as amended. The City of Evanston reserves the right to reject any or all submittals or to accept the submittal(s) deemed most advantageous to the City.

The Evanston City Council also reserves the right to award the contract to an Evanston firm if that firm's bid is within 5% of the low bid.

Each Bidder shall be required to submit with their bid a disclosure of ownership interest statement form in accordance with the provisions of City Code Section 1-18-1 *et seq.* Failure to submit such information will result in the disqualification of such bid.

Linda Thomas
Purchasing Specialist

INSTRUCTIONS TO BIDDERS/REQUIREMENTS FOR BIDDING (CONTRACTS OVER \$25,000)

1. ON-LINE NOTIFICATION OF SOLICITATIONS

The City is utilizing Demandstar.com (www.demandstar.com) for on-line notification purposes only for sealed bids when it is anticipated that the amount of the resulting contract will be in excess of its formal bid limit of \$25,000, such as this requirement. Interested Bidders are required to submit a sealed bid to the City by the date/time indicated for this requirement on the forms provided by the City.

2. SUBMISSION OF BIDS

- A. The City of Evanston will no longer accept hard copy paper submittals for any solicitation. Responses will only be accepted electronically via E-bidding through DemandStar (WWW.DEMANDSTAR.COM). Although registration is required, vendors can download solicitations and upload bid responses for free. **Please refer to attached DemandStar E-bidding documents.**
- B. ANY BIDS RECEIVED AFTER THE TIME AND DATE SPECIFIED FOR THE RECEIPT OF BIDS WILL NOT BE ACCEPTED. It is the sole responsibility of the Bidder to insure that his or her bid is delivered by the stated bid opening time. THE CITY IS NOT RESPONSIBLE FOR INCOMPLETE UPLOADED SUBMITTALS.
- C. Bids will be opened on the date and time stated.
- D. Any Bidder may withdraw his or her bid by letter or with proper identification by personally securing his or her bid at any time prior to the stated bid opening time. No telephone request for withdrawal of bids will be honored.

3. PREPARATION OF BIDS

The Bidder must prepare the bid on the attached bid forms. Unless otherwise stated, all blank spaces on the bid form or pages must be filled in. Either a unit price, lump sum price, or a "no-bid", as the case may be, must be stated for each and every item and must be either typed in or written in ink.

4. SIGNING OF BIDS

- A. Bids which are signed for a partnership should be signed in the firm's name by all partners or in the firm's name by Attorney-in-Fact. If signed by Attorney-in-Fact, there should be attached to the bid a Power of Attorney evidencing authority to sign the bid, dated the same date as the bid and executed by all partners of the firm.
- B. Bids which are signed for a corporation should have the correct corporate name thereon and signature of an authorized officer of the corporation manually written below the corporate name following words "By: _____" title of office held by the person signing for corporation, which shall appear below signature of an officer.

- C. Bids which are signed by an individual doing business under a fictitious name should be signed in the name of the individual "doing business as. _____."
- D. The name of each person signing the bid shall be typed or printed below his or her signature.

5. CONSIDERATION OF BIDS

The Purchasing Specialist shall represent and act for the City in all matters pertaining to this bid and the contract in conjunction therewith.

6. WITHDRAWAL OF BIDS

Bidders may withdraw or cancel their bids at any time prior to the advertised bid opening time. After the bid opening time, no bid shall be withdrawn or canceled for a period of sixty (60) calendar days. When contract approval is required by another agency, such as the Federal Government or the State of Illinois, no bid shall be withdrawn or canceled for a period of ninety (90) calendar days.

7. ERRORS IN BIDS

Bidders are cautioned to verify their bids before submission. Negligence on the part of the respondent in preparing the bid confers no right for withdrawal or modification of the bid after it has been opened. In case of error in the extension of prices in the bid, unit prices will govern.

8. ADDENDA

- A. Any and all changes to the specifications/plans are valid only if they are included by written addendum to all Bidders. Each Bidder must acknowledge receipt of any addenda by indicating on the Bid form. Each Bidder, by acknowledging receipt of any addenda, is responsible for the contents of the addenda and any changes to the bid therein. Failure to acknowledge any addenda may cause the bid to be rejected.
- B. Addenda information is available over the internet at: [City of Evanston Notices to Bidders](#) or www.demandstar.com, or by contacting the Purchasing Office.

9. RESERVED RIGHTS

The City of Evanston reserves the right at any time and for any reason to cancel his or her solicitation, to accept or reject any or all bids or any portion thereof, or to accept an alternate response. The City reserves the right to waive any immaterial defect in any response. The City may seek clarification from any respondent at any time, and failure to respond within a reasonable time period, or as otherwise directed, will be cause for rejection.

10. AWARD

It is the intent of the City to award a contract to the lowest responsible Bidder meeting specifications. The City reserves the right to determine the lowest

responsible Bidder on the basis of an individual item, groups of items, or in any way determined to be in the best interest of the City. Award will be based on the following factors (where applicable): (a) adherence to all conditions and requirements of the bid specifications; (b) price; (c) qualifications of the Bidder, including past performance, financial responsibility, general reputation, experience, service capabilities, and facilities; (d) delivery or completion date; (e) product appearance, workmanship, finish, taste, feel, overall quality, and results of product testing; (f) maintenance costs and warranty provisions; and (g) repurchase or residual value.

11. INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

Bidder's shall promptly notify the City of any ambiguity, inconsistency, or error that they discover upon examination of the bidding documents. Interpretations, corrections, and changes will be made by addendum. Each Bidder shall ascertain prior to submitting a bid that all addenda have been received and are acknowledged in the bid.

12. INCONSISTENCIES AND OMISSIONS

These specifications and the accompanying plans, if any, are intended to include all information necessary for the work contemplated. If, by inadvertence or otherwise, the plans or specifications omit some information necessary for that purpose, the contractor shall, nevertheless, be required to perform such work at no additional cost to the City so that the project may be completed according to the true intent and purpose of the plans and specifications.

13. CONDITIONS

Bidders are advised to become familiar with all conditions, instructions, and specifications governing his or her bid. Once the award has been made, failure to have read all the conditions, instructions and specifications of this contract shall not permit the Bidder to amend contract or to request additional compensation.

14. VERIFICATIONS OF DATA

- A. It is understood and agreed that the unit quantities given in these specifications are approximate only, and the contractor shall verify these quantities before bidding as no claim shall be made against the City on, or account of, any excess or deficiency in the same.
- B. The contractor shall have visited the premises and determined for itself, by actual observation, boring, test holes, or other means, the nature of all soil and water conditions (both above and below ground in the line of work) that may be encountered in all construction work under this contract. The cost of all such inspection, borings, etc. shall be borne by the contractor, and no allowance will be made for the failure of the contractor to estimate correctly the difficulties attending the execution of the work.

15. SPECIFICATIONS

Reference to brand names and numbers is meant to be descriptive, not restrictive,

unless otherwise specified. Bids on equivalent items will be considered, provided the Bidder clearly states exactly what is proposed to be furnished, including complete specifications. Unless the Bidder specifies otherwise, it is understood the Bidder is offering a referenced brand item as specified or is bidding as specified when no brand is referenced, and does not propose to furnish an "equal." The City reserves the right to determine whether a substitute offer is equivalent to, and meets the standard of quality indicated by the brand name and number.

16. SAMPLES

When samples of items are called for by the specifications, samples must be furnished free of expense, and if not destroyed in the evaluation process will be returned at the Bidder's expense upon request. Request for the return of samples must accompany the sample and must include a UPS/Fed-Ex Pickup Slip, postage, or other acceptable mode of return. Individual samples must be labeled with Bidder's name, invitation number, item reference, manufacturer's brand name and number.

17. REGULATORY COMPLIANCE

Each Bidder represents and warrants that the goods or services furnished hereunder (including all labels, packages and containers for said goods) comply with all applicable standards, rules and regulations in effect under the requirements of all Federal, State, and local laws, rules and regulations as applicable, including the Occupational Safety and Health Act as amended, with respect to design, construction, manufacture, or use for their intended purpose of said goods or services. Each Bidder must furnish a "Material Safety Data Sheet" in compliance with the Illinois Toxic Substances Disclosure to Employees Act when required.

18. PRICING

The price quoted for each item is the full purchase price, including delivery to destination, and includes all transportation and handling charges, materials or service costs, patent royalties, and all other overhead charges of every kind and nature. Unless otherwise specified, prices shall remain firm for the contract period.

19. DISCOUNTS

Prices quoted must be net after deducting all trade and quantity discounts. Where cash discounts for prompt payment are offered, the discount period shall begin with the date of receipt of a correct invoice or receipt or final acceptance of goods, whichever is later.

20. INSPECTION

Materials or equipment purchased are subject to inspection and approval at the City's destination. The City reserves the right to reject and refuse acceptance of items which are not in accordance with the instructions, specifications, drawings or data of Seller's warranty (express or implied). Rejected materials or equipment shall be removed by, or at the expense of, the Seller promptly after rejection.

21. BIDS AND PLAN DEPOSITS

- A. When required on the cover sheet, all bids shall be accompanied by a bid deposit in the amount specified. Bid deposits shall be in the form of cash, a certified check, or cashier's check drawn on a responsible bank doing business in the United States and shall be made payable to the City of Evanston. Bid Bonds are also acceptable. All bids not accompanied by a bid deposit, when required, will be rejected.
- B. The City will return the bid deposits of all but the 3 lowest qualified Bidders, whose deposit will be held until contract award or at the expiration of the sixty-day or ninety-day period for bid award.
- C. The bid deposit of the successful Bidder will be retained until contract documents have been executed and the Contractor has submitted all the required information. Failure to comply with the terms of this specification may be cause for forfeiture of said deposit.
- D. When required, plan deposits will be refunded should the plans be returned in good condition within 10 days of the bid opening.

22. DISPUTES

Any dispute concerning a question of fact arising under this bid shall be decided by the Purchasing Specialist, who shall issue a written decision to the Bidder. The decision of the Purchasing Specialist shall be final and binding.

23. CATALOGS

Each Bidder shall submit, when requested by the Purchasing Specialist, catalogs, descriptive literature, and detailed drawings, fully detailing features, designs, construction, appointments, finishes and the like not covered in the specifications, necessary to fully describe the material or work proposed to be furnished.

24. TAXES

- A. Federal Excise Tax does not apply to materials purchased by the City of Evanston by virtue of Exemption Certificate No. A-208762, Illinois Retailers' Occupation Tax, Use Tax, and Municipal Retailers' Occupation Tax do not apply to materials or services purchased by the City of Evanston by virtue of Statute.
- B. The City of Evanston is exempt from Illinois Sales Tax by virtue of Exemption Identification number E9998-1750.
- C. The City's federal tax ID number is 36-6005870.

25. PERMITS & FEES

All Bidders awarded a contract must secure and pay for any licenses required by the City of Evanston. Necessary building permits will be required, but all permit and moneys for same must not be included in any bid.

26. ROYALTIES & PATENTS

Seller must pay all royalties and license fees. Seller must defend all suits or claims

for infringement of any patent, copyright or trademark rights, and must hold the City harmless from loss on account thereof.

27. LOCAL PREFERENCE POLICY

The Evanston City Council reserves the right to award the contract to an Evanston firm if the firm's bid is within five (5%) percent of the low bid of a non-Evanston firm.

28. POWER OF ATTORNEY

An Attorney-In-Fact, who signs any and all of the bond or contract bonds submitted with this bid, must file with each bond a certified and effectively dated copy of their Power of Attorney. These dates should be the same or after the date of the contract.

29. WARRANTY

- A. The contractor warrants that all goods and services furnished to the City shall be in accordance with specifications and free from any defects of workmanship and materials: that goods furnished to the City shall be merchantable and fit for the City's described purposes, and that no governmental law, regulation, order, or rule has been violated in the manufacture or sale of such goods.
- B. The contractor warrants all equipment furnished to be in acceptable condition, and to operate satisfactorily for a period of one (1) year from delivery of, or the completion of installation, whichever is latest, unless stated otherwise in the specifications, and that if a defect in workmanship and/or quality of materials are evidenced in this period, the Seller shall remit full credit, replace, or repair at City's discretion immediately, such equipment and/or parts that are defective at no additional cost to the City.
- C. The contractor warrants to the City that each item furnished hereunder, and any component part thereof, will be new and in conformity with the specifications in all respects, unless otherwise specified, and is of the best quality of its respective kind, free from faulty workmanship, materials, or design, and installed sufficiently to fulfill any operating conditions specified by the City.
- D. The contractor shall repair or replace any item or component part thereof found not to be in conformity with this paragraph provided the City notified the Seller of such nonconformity within one (1) year after initial use or within eighteen (18) months after delivery, whichever occurs first. In the event Seller fails to proceed diligently to so replace or repair within a reasonable time after receipt of such notice, the City may undertake or complete such replacement or repair for Seller's account, and the seller will be responsible for any additional costs. Acceptance shall not relieve the seller of its responsibility.

30. INCURRED COSTS

The City will not be liable for any costs incurred by Bidders in replying to this

invitation for bids.

31. VARIANCES

Each Bidder must state or list by reference any variations to specifications, terms and/or conditions set forth herein with its bid.

32. INDEMNIFICATION

- A. The awarded Bidder/Contractor shall defend, indemnify and hold harmless the City and its officers, elected and appointed officials, agents, and employees from any and all liability, losses, or damages as a result of claims, demands, suits, actions, or proceedings of any kind or nature, including but not limited to costs, and fees, including attorney's fees, judgments or settlements, resulting from or arising out of any negligent or willful act or omission on the part of the Contractor or Contractor's sub-contractors, employees, agents or sub-contractors during the performance of this Agreement. Such indemnification shall not be limited by reason of the enumeration of any insurance coverage herein provided. This provision shall survive completion, expiration, or termination of this Agreement.
- B. Nothing contained herein shall be construed as prohibiting the City, or its officers, agents, or employees, from defending through the selection and use of their own agents, attorneys, and experts, any claims, actions or suits brought against them. The Contractor shall be liable for the reasonable costs, fees, and expenses incurred in the defense of any such claims, actions, or suits. Nothing herein shall be construed as a limitation or waiver of defenses available to the City and employees and agents, including but not limited to the Illinois Local Governmental and Governmental Employees Tort Immunity Act, 745 ILCS 10/1-101 *et seq.*
- C. At the City Corporation Counsel's option, Contractor must defend all suits brought upon all such Losses and must pay all costs and expenses incidental to them, but the City has the right, at its option, to participate, at its own cost, in the defense of any suit, without relieving Contractor of any of its obligations under this Agreement. Any settlement of any claim or suit related to this Project by Contractor must be made only with the prior written consent of the City Corporation Counsel, if the settlement requires any action on the part of the City.
- D. To the extent permissible by law, Contractor waives any limits to the amount of its obligations to indemnify, defend, or contribute to any sums due under any Losses, including any claim by any employee of Contractor that may be subject to the Illinois Compensation Act, 820 ILCS 305/1 *et seq.* or any other related law or judicial decision, including but not limited to, *Kotecki v. Cyclops Welding Corporation*, 146 Ill. 2d 155 (1991). The City, however, does not waive any limitations it may have on its liability under the Illinois Workers Compensation Act, the Illinois Pension Code or any other statute.
- E. The Contractor shall be responsible for any losses and costs to repair or remedy work performed under this Agreement resulting from or arising out of any act or

omission, neglect, or misconduct in the performance of its Work or its sub-contractors' work. Acceptance of the work by the City will not relieve the Contractor of the responsibility for subsequent correction of any such error, omissions and/or negligent acts or of its liability for loss or damage resulting therefrom.

- F. All provisions of this Section 32 shall survive completion, expiration, or termination of this Agreement.

33. DEFAULT

Time is of the essence as to the awarded contract and, of delivery or acceptable items or rendering of services is not completed by the time promised, the City reserves the right, without liability, in addition to its other rights and remedies, to terminate the contract by notice effective when received by Seller, as to stated items not yet shipped or services not yet rendered and to purchase substitute items or services elsewhere and charge the Seller with all losses incurred. The City shall be entitled to recover its attorney's fees and expenses in any successful action by the City to enforce this contract.

34. GOVERNING LAW

This contract shall be governed by and construed according to the laws of the State of Illinois. In the event of litigation, the venue will be Cook County, Illinois.

35. EQUAL EMPLOYMENT OPPORTUNITY

- A. In the event of the contractor's noncompliance with any provision of the Illinois Human Rights Act or Section 1-12-5 of the Evanston City Code, the contractor may be declared non-responsible and therefore ineligible for future contracts or sub-contracts with the City of Evanston, and the contract may be canceled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by Statute or regulation.
- B. During the performance of this contract, the contractor agrees as follows:
1. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin or ancestry, or age or physical or mental handicap that does not impair ability to work, and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization. Contractor shall comply with all requirements of City of Evanston Code Section 1-12-5.
 2. 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, national origin or ancestry.
 3. That, if it hires additional employees in order to perform this contract, or any

portion hereof, it will determine that availability (in accordance with the Fair Employment Commission's Rules and Regulations for Public Contracts) 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 underutilized.

4. 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 Fair Employment Practices Act and the Fair Employment Practices Commission's Rules and Regulations for Public Contracts. 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 Illinois Fair Employment Practices Commission and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations hereunder.
5. That it will submit reports as required by the Illinois Fair Employment Practices Commission's Rules and Regulations for Public Contracts, furnish all relevant information as may from time to time be requested by the Fair Employment Practices Commission or the contracting agency, and in all respects comply with the Illinois Fair Employment Practices Commission's Rules and regulations for Public Contracts.
6. That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency, the City Manager, the Commission and the Illinois Fair Employment Practices Commission for purposes of investigation to ascertain compliance with the Illinois Fair Employment Practices Act and the Fair Employment Practices Act and the Fair Employment Practices Commission's Rules and Regulations for Public Contract.
7. That it will include verbatim or by reference the provisions of subsections (A) through (G) of this clause in every performance sub-contract as defined in Section 2.10(b) of the Fair Employment Practices Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every such sub-contractor; and that it will also include the provisions of subsections (A), (E), (F), and (G) in every supply sub-contract as defined in Section 2.10(a) of the Fair Employment Practices Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every such sub-contractor. 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 all its sub-contractors; and further it will promptly notify the contracting agency and the Illinois Fair Employment Practices Commission in the event any sub-contractor fails or refuses to comply therewith. In addition, no contractor will utilize any sub-contractor declared by the Fair Employment

Practices Commission to be non-responsible and therefore ineligible for contracts or sub-contracts with the State of Illinois or any of its political subdivisions or municipal corporations.

36. M/W/D/EBE GOAL

The City of Evanston has a goal of awarding 25% of its contracts to Minority-Owned, Women-Owned, Disadvantaged Enterprise and Evanston-based businesses (M/W/D/EBEs). All Bidders must state the proposed involvement of M/W/D/EBEs in completing a portion of the services required by the City by completing the attached M/W/D/EBE forms. Any questions regarding M/W/D/EBE compliance should be submitted in writing to Tammi Nunez, Purchasing Manager at tnunez@cityofevanston.org.

37. LOCAL EMPLOYMENT PROGRAM REQUIREMENTS

In an effort to increase hiring of economically disadvantaged Evanston residents on certain City construction projects, the contractor shall comply with the provisions of the City of Evanston's Local Employment Program Ordinance (LEP) set forth in Section 1-17-1 (C) of the Evanston City Code. The intent of the LEP is to have Evanston residents employed at the construction site as laborers, apprentices and journeymen in such trades as electrical, HVAC, carpenters, masonry, concrete finishers, truck drivers and other construction occupations necessary for the project. Any questions regarding LEP compliance should be submitted in writing to Jessica Cooper, Workforce Development Coordinator at jcooper@cityofevanston.org or Tammi Nunez Purchasing Manager at tnunez@cityofevanston.org.

NOTE: CITY OF EVANSTON ORDINANCE 60-O-14 AMENDMENT LOCAL EMPLOYMENT PROGRAM (LEP) available on the City website at: [Ordinance 60-O-14 Amendment LEP](#)

38. Questions

All questions related to this bid document should be submitted in writing to Linda Thomas, Purchasing Specialist at liethomas@cityofevanston.org with a copy to Kenon Boehm, Landscape Designer II, at kboehm@cityofevanston.org. Only inquiries received a minimum of seven (7) working days prior to the date set for the opening of bids, will be given any consideration.

39. COORDINATION OF EXISTING SITE WITH DRAWINGS

- A. Before submitting a bid, bidders shall carefully examine the drawings and specifications, visit the site, and fully inform themselves as to all conditions and limitations.
- B. Should a bidder find discrepancies in, or omissions from the drawings or specifications, or should be in doubt as to their meaning, the bidder should at once notify the Purchasing Specialist, who will issue necessary instructions to all bidders in the form of an addendum.

40. AFFIRMATIVE ACTION IN SUB-CONTRACTING (EXCERPT FROM RESOLUTION 59-R-73)

“Contractor agrees that he shall actively solicit bids for the sub-contracting of goods or services from qualified minority businesses. At the request of the City, Contractor shall furnish evidence of his compliance with this requirement of minority solicitation.

Contractor further agrees to consider the grant of sub-contracts to said minority bidders on the basis of substantially equal bids in the light most favorable to said minority businesses. Contractor further affirms that in obtaining his performance and bid bonds, he will seek out and use companies who have records of, and/or who will make commitments to, the bonding of minority contractors on a rate basis comparable to their bonding of similar non-minority contractors. The contractor may be required to submit this evidence as part of the bid or subsequent to it.”

41. COMPLIANCE WITH LAWS

- A. The bidder shall at all times observe and comply with all laws, ordinances and regulations of the Federal, State, Local and City Governments, which may in any manner affect the preparation of bids or the performance of the contract.

42. QUALIFICATION OF BIDDERS

- A. All bidders must be qualified in accordance with the instructions, procedures and methods set forth in this specification.
- B. In awarding contract, City may take into consideration, skill, facilities, capacity, experience, ability, responsibility, previous work, financial standing of bidder, amount of work being carried on by bidder, quality and efficiency of construction equipment proposed to be furnished, period of time within which proposed equipment is furnished and delivered, necessity of prompt and efficient completion of work herein described. Inability of any bidder to meet requirements mentioned above may be cause for rejection of the bid. In addition, if the project covered by this contract is a minority set-aside project, the contractor's qualifications as a minority firm will determine the eligibility of the contractor to bid.

43. COMPETENCY OF BIDDER

- A. No bid will be accepted from or contract awarded to any person, firm or corporation that is in arrears or is in default to the City of Evanston upon any debt or contract, or that is a defaulter, as surety or otherwise, upon any obligation to said City, or had failed to perform faithfully any previous contract with the City.
- B. The bidder, if requested, must present within forty eight (48) hours evidence satisfactory to the Purchasing Manager of performance ability and possession of necessary facilities, pecuniary resources and adequate insurance to comply with the terms of these specifications and contract documents.

44. PREFERENCE TO CITIZENS

The Contractor shall abide by the Illinois Preference Act, 30 ILCS 570 et seq., which stipulates that whenever there is a period of excessive unemployment in

Illinois, defined as any month immediately following two (2) consecutive months during which the level of unemployment in Illinois exceeds five percent (5%) as measured by the U.S. Bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the Contractor shall employ only Illinois laborers unless otherwise exempted as so stated in the Act. ("Illinois laborer" means any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident) Other laborers may be used IF Illinois laborers are not available or are incapable of performing the particular type of work involved if so certified by the Contractor and approved by the project engineer.

GENERAL CONDITIONS

1. BASIS OF AWARD

The City of Evanston reserves the right to award a contract to a responsive and responsible Bidder(s) who submits the lowest total bid, or to reject any or all bids and bidding, when in its opinion the best interest of the City will be served by such action. The City reserves the right to consider the specified alternates in its evaluation of the bids.

2. BIDS

A. LUMP SUM BID

1. The bidder is to submit a lump sum bid for each bid line on the Bid Form which includes all costs incidental to performing the specified work. It is understood and agreed that the unit quantities given in the supporting pages are approximate only and the bidder shall verify these quantities before bidding as no claim shall be made against the City on account of any excess or deficiency in the same.

2. Unit prices given in the supporting pages shall be used by the City and the Contractor for any subsequent changes in the contract.

3. QUANTITIES

Any quantities shown on the Bid Form are estimated only for bid canvassing purposes, the City has made a good faith effort to estimate the quantity requirements for the Contract term. The City reserves the right to increase or decrease quantities ordered under this contract.

4. CONTRACT TERM

Bidder must fully complete the work within the period specified herein after award of the contract by the City.

5. NOTICE TO PROCEED/ PURCHASE ORDER/ CONTRACT

A. The City issued Purchase Order serves as the City official Notice to Proceed. No work will be allowed prior to Contractor receipt of the City issued Purchase Order.

B. Upon approval of the required bonds and insurance documents, the City will issue a Purchase Order to the Contractor for the contract amount. All Applications for Payment must reference the Purchase Order number.

C. When it is necessary to issue a Change Order that increases/decreases the contract amount, a Change Order form will be issued and a modified Purchase Order will be issued reflecting the revised contract amount.

D. When it is necessary to issue a Change Order that only increases/decreases the

contract period, only a Change Order form will be issued establishing the revised contract period.

- E. Upon Award the contractor shall execute the Contractor Services Agreement.

6. PAYMENT

- A. Progress payments will be made in accordance with “Applications for Payment” and “Project Closeout” sections of the specifications, less a 10% retainage for each payment, which will be held until final acceptance of the work by the City. Certification of each Application for Payment will be made by the City’s representative.
- B. All payments will be made in accordance with *Illinois Local Government Prompt Payment Act*.

7. DECISIONS TO WITHHOLD CERTIFICATION FOR PAYMENT

- A. The City may not certify payment and may withhold payment in whole or in part, to the extent reasonably necessary to protect the City, if the quality of the work is not in accordance with the contract documents. If the City is unable to certify payment in the amount of the invoice, the City will promptly issue payment for the amount of the Work completed in accordance with the contract documents. The City may not certify payment due to any contractor negligence or contract non-compliance.
 - a. Defective work not remedied
 - b. Third party claims filed or reasonable evidence indicating probable filing of such claims
 - c. Failure of Contractor to make payments properly to Sub-contractors for labor, materials or equipment
 - d. Reasonable evidence that the work cannot be completed for the unpaid balance of the Contract Sum
 - e. Damage to the City or another contractor
 - f. Reasonable evidence that the work will not be completed within the Contract period and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay
 - g. Persistent failure to carry out work in accordance with the Contract Documents.

8. CHANGES IN WORK

- A. The City reserves the right to make changes in the plans and specifications by altering, adding to, or deducting from the work, without invalidating the contract. All such changes shall be executed under the conditions of the original contract, except that any claim for extension of time caused thereby shall be adjusted at the time of ordering such change.
- B. No change shall be made unless a written Change Order and/or modified Purchase Order is issued by the City stating that the City has authorized the change, and no claim for an addition to the contract shall be valid unless so ordered.

- C. If such changes diminish the quantity of work to be done they shall not constitute a claim for damage or anticipated profits on the work, such increase shall be paid in one or more of the following ways:

1. by estimate and acceptance in lump sum
2. by unit prices named in the contract's bid form or subsequently agreed upon

9. DEDUCTION FOR UNCORRECTED WORK

If the City deems it expedient to correct work damaged or not done in accordance with the contract, the difference in value, together with a fair allowance for damage shall be deducted from the contract amount due. The value of such deduction shall be determined by the City.

10. CITY'S RIGHT TO TERMINATE CONTRACT

The City reserves the right, in addition to other rights to termination, to terminate the contracts in accordance with all provisions of the executed contract.

11. LIENS

- A. Neither the final payment nor any part of any retained percentages, shall become due until the contractor, if required, delivers to the City, a complete release of all liens arising out of this contract, or receipts in full in lieu thereof and, if required in either case, an affidavit that so far as it has knowledge or information the releases and receipts include all the labor and material for which a lien could be filed. If any lien remains unsatisfied after all payments are made the contractor shall refund to the City all moneys that the latter may be compelled to pay in discharging such a lien, including all costs and attorney's fees.

12. SEPARATE CONTRACTS

- A. The City reserves the right to let other contracts in connection with this work. The contractor shall afford other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work and shall properly connect and coordinate his or her work with theirs. If any part of the contractor's work depends on proper execution or results upon the work of any other contractor, the contractor shall inspect and promptly report to the City any defects in such work that render it unsuitable for such proper execution and results. His or her failure to so inspect and report shall constitute an acceptance of other contractor's work as fit and proper.
- B. To insure the proper execution of his or her subsequent work, the contractor shall measure work already in place and shall at once report to the City any discrepancy between the executed work and the drawings which will affect his or her work.

13. PROTECTION & SAFEGUARDS

- A. Unless otherwise specified, the contractor, as a part of this contract, shall provide, erect and maintain temporary roads, fences, bracing, lights, warning signs,

barricades, etc. necessary for the protection of the construction materials, adjacent property and the public.

- B. The contractor shall contact all utilities which will be affected by its operations and notify the owners of the utilities of its operations and their limits within forty-eight (48) hours prior to beginning construction. The contractor shall be responsible for damage to utilities and shall, at his or her own expense, restore such property to a condition equal to that which existed before its work, as may be directed by the owners.
- C. The contractor shall protect all work and unused materials of this contract from any and all damage and shall be solely responsible for the condition of such work and materials.

14. MATERIAL STORAGE

- A. On-site areas may be designated for material/equipment storage. The contractor will assume all risk and liability associated with the storage of material/equipment at on-site locations.

15. CLEANING UP

- A. The contractor shall at all time keep the premises free from accumulation of waste material or rubbish caused by its employees or work and at the completion of the work it shall remove all its rubbish, tools, and surplus materials from the premises, leaving the area in a neat and workmanlike condition. In case of dispute, the City may remove the rubbish and charge the cost to the contractor.
- B. Contractor recognizes that proper cleanup and removal of construction debris is an important safety consideration. The Contractor shall be solely responsible for daily construction site/area cleanup and removal of all construction debris in accordance with City-approved disposal practices. Contractor shall be solely responsible for identifying and removing at its expense all hazardous material and waste which it uses and generates.

16. RESTORATION OF SITE

- A. Prior to final payment, contractor shall fully restore all property disturbed or damaged during the course of this work. This includes, but is not limited to public property, (walks, curbs, roadways, trees, etc.) private property, and utilities. This shall also include removal of temporary facilities erected during the course of this contract and restoration of these areas.
- B. All restoration work shall be subject to the approval of the City and shall restore the property to a condition at least equal to that existing prior to the start of this contract.
- C. All restoration work of property damaged by contractor shall be accomplished at the sole expense of the contractor.

17. PREVAILING WAGE

- A. Prospective Bidders shall thoroughly familiarize themselves with the provisions of the above-mentioned Act and shall prepare any and all bids/bids in strict compliance therewith.
- B. **Effective September 1st - All work performed on new and existing projects must be submitted to Illinois Department of Labor through the certified transcript of payroll portal.** You may access the portal here:
[Certified Transcript of Payroll Portal](#)

All contractors and sub-contractors on public works projects **must submit and upload certified payrolls** on a monthly basis to the IDOL online portal, provide a pdf copy to the City's project manager and business work force development coordinator, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the contractor is aware that filing records her or she knows to be false is a Class B misdemeanor.

- C. The certified payroll record must include for every worker employed on the public works project the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, number of hours worked each day, and starting and ending time of work each day. These certified payroll records are considered public records and public bodies must make these records available to the public under the Freedom of Information Act, with the exception of the employee's address, telephone number and social security number. Any contractor who fails to submit a certified payroll or knowingly files a false certified payroll is guilty of a Class B misdemeanor.
- D. All certified payrolls shall be submitted in electronic format, preferably a PDF file.
- E. As a condition of receiving payment, Contractor must (i) be in compliance with the Agreement, (ii) pay its employees prevailing wages when required by law (Examples of prevailing wage categories include public works, printing, janitorial, window washing, building and grounds services, site technician services, natural resource services, security guard and food services). Contractor is responsible for contacting the Illinois Dept. of Labor 217-782-1710; <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/prevailing-wage-act.aspx> compliance with prevailing wage requirements), (iii) pay its suppliers and sub-contractors according to the terms of their respective contracts, and (iv) provide lien waivers to the City upon request.

18. CONTRACTOR REQUIREMENTS

- A. The Contractor shall abide by and comply with all local, State and federal laws and regulations relating to contracts involving public funds and the development/construction of public works, buildings, or facilities. The scale of wages to be paid shall be obtained from Illinois Department of Labor and posted by the Contractor in a prominent and accessible place at the project work site.

- B. The Contractor certifies it has not been barred from being awarded a contract with a unit of State or local government as a result of bid rigging or bid rotating or any similar offense (720 ILCS 5/33 E-3, E-4).
- C. The Contractor certifies, pursuant to the Illinois Human Rights Act (775 ILCS 5/2-105), that it has a written sexual harassment policy that includes, at a minimum, the following information: (1) the illegality of sexual harassment, (2) the definition of sexual harassment under State law, (3) a description of sexual harassment utilizing examples, (4) the Contractor's internal complaint process including penalties, (5) legal recourse, investigation and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission and directions on how to contact both; and (6) protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act.
- D. The Contractor shall abide by the "Illinois Preference Act" which stipulates that whenever there is a period of excessive unemployment in Illinois, defined as any month immediately following two (2) consecutive months during which the level of unemployment in Illinois exceeds five percent (5%) as measured by the U.S. Bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the Contractor shall employ only Illinois laborers unless otherwise exempted as so stated in the Act. ("Illinois laborer" means any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident) Other laborers may be used IF Illinois laborers are not available or are incapable of performing the particular type of work involved if so certified by the Contractor and approved by the project engineer.

19. SUB-CONTRACTORS

- A. The term "sub-contract" means any agreement, arrangement or understanding, written or otherwise between a Contractor and any person (in which the parties do not stand in the relationship of an employer or an employee) for the furnishing of supplies or services or for the use of real or personal property, including lease arrangements, which, in whole or in part, is utilized in the performance of any one or more Contracts under which any portion of the Contractor's obligation under any one or more Contracts is performed, undertaken or assumed.
- B. The Bidder is specifically advised that any person, firm or party, to whom it is proposed to award a sub-contract under this contract must be acceptable to the City. Approval for the proposed sub-contract Award cannot be given by the City until the proposed Sub-contractor has submitted evidence showing that it has fully complied with any reporting requirements to which it is, or was, subject.
- C. The contractor, shall, within ten (10) days after award of the Contract, submit to the City in writing, names and addresses and respective amounts of money for proposed contracts with Sub-contractors/major suppliers. The City will review and may direct the Contractor that they shall not employ any that are not acceptable as

provided above.

- D. The sub-contractor shall abide by and comply with all local, State and federal laws and regulations relating to contracts involving public funds and the development/construction of public works, buildings, or facilities.

20. PAYMENTS TO SUB-CONTRACTORS

- A. Within seven days after the receipt of amounts paid by the City for work performed by a sub-contractor under this contract, the Contractor shall either:
 - 1. Pay the sub-contractor for the proportionate share of the total payment received from the City attributable to the work performed by the sub-contractor under this contract; or,
 - 2. Notify the City and sub-contractor, in writing, of his intention to withhold all or a part of the sub-contractor's payment and the reason for non-payment.
- B. The Contractor shall pay interest to the sub-contractor on all amounts owed that remain unpaid beyond the seven day period except for amounts withheld as allowed in item 2 above.
- C. Unless otherwise provided under the terms of this contract, interest shall accrue at the rate of one percent per month.
- D. The Contractor shall include in each of its sub-contracts a provision requiring each Sub-contractor to include or otherwise be subject to the same payment and interest requirements as set forth above with respect to each lower-tier sub-contractor.
- E. The Contractor's obligation to pay an interest charge to a sub-contractor pursuant to this provision may not be construed to be an obligation of the City.

21. BOND – PERFORMANCE, MATERIAL, & LABOR

- A. When required by the specifications herein, the successful Bidder or Bidders shall, within ten (10) calendar days after acceptance of the Bidder's bid by the City, furnish a performance bond for 100% of the full amount of the contract from insurance companies having not less than A+ Policyholders Rating from the most recent Alfred M. Best and Co., Inc. listing available. Certification of the insurance company's rating shall be provided prior to contract implementation and quarterly thereafter until contract completion. Should such rating fall below the required A+ level during performance of the contract, it will be the contractor's responsibility to notify the City and provide a new bond from an insurance company whose rating meets the City's requirements.
- B. When required by the specifications herein, all Bidders shall submit with the bid a bid bond. A letter of credit may be furnished in lieu of a bid bond only if the

following conditions are met: 1) An irrevocable letter of credit must be obtained from an accredited bank which shall include an agreement that the bank will honor a demand by the City for payment due to Plaintiff failure to complete the project. 2) An irrevocable letter of credit must be in writing and signed by an authorized representative of the bank. 3) The irrevocable letter of credit must expressly state that it is irrevocable until the bid has been awarded. 4) The letter of credit must be for the percentage specified in the bid documents.

- C. The City may reject the use of an irrevocable letter of credit if the financial soundness of the issuing bank is found to be unacceptable.
- D. In the event that the Bidder fails to furnish a performance bond in said period of ten (10) calendar days after acceptance of the Bidder's bid by the City, the City may withdraw its acceptance of the bid and retain the Bidder's deposit as liquidated damages and not as a penalty.
- E. If the contractor has more than one project for which there is a contract with the City of Evanston the contractor shall provide a separate Performance Bond for each project.

22. INDEMNITY

- A. The Contractor shall defend, indemnify and hold harmless the City and its officers, elected and appointed officials, agents, and employees from any and all liability, losses, or damages as a result of claims, demands, suits, actions, or proceedings of any kind or nature, including but not limited to costs, and fees, including attorney's fees, judgments or settlements, resulting from or arising out of any negligent or willful act or omission on the part of the Contractor or Contractor's sub-contractors, employees, agents or sub-contractors during the performance of this Agreement. Such indemnification shall not be limited by reason of the enumeration of any insurance coverage herein provided. This provision shall survive completion, expiration, or termination of this Agreement.
- B. Nothing contained herein shall be construed as prohibiting the City, or its officers, agents, or employees, from defending through the selection and use of their own agents, attorneys, and experts, any claims, actions or suits brought against them. The Contractor shall be liable for the reasonable costs, fees, and expenses incurred in the defense of any such claims, actions, or suits. Nothing herein shall be construed as a limitation or waiver of defenses available to the City and employees and agents, including but not limited to the Illinois Local Governmental and Governmental Employees Tort Immunity Act, 745 ILCS 10/1-101 *et seq.*
- C. At the City Corporation Counsel's option, Contractor must defend all suits brought upon all such Losses and must pay all costs and expenses incidental to them, but the City has the right, at its option, to participate, at its own cost, in the defense of any suit, without relieving Contractor of any of its obligations under this Agreement. Any settlement of any claim or suit related to this Project by Contractor must be

made only with the prior written consent of the City Corporation Counsel, if the settlement requires any action on the part of the City.

- D. To the extent permissible by law, Contractor waives any limits to the amount of its obligations to indemnify, defend, or contribute to any sums due under any Losses, including any claim by any employee of Contractor that may be subject to the Illinois Workers Compensation Act, 820 ILCS 305/1 et seq. or any other related law or judicial decision, including but not limited to, Kotecki v. Cyclops Welding Corporation, 146 Ill. 2d 155 (1991). The City, however, does not waive any limitations it may have on its liability under the Illinois Worker Compensation Act, the Illinois Pension Code or any other statute.
- E. The Contractor shall be responsible for any losses and costs to repair or remedy work performed under this Agreement resulting from or arising out of any act or omission, neglect, or misconduct in the performance of its Work or its sub-contractors' work. Acceptance of the work by the City will not relieve the Contractor of the responsibility for subsequent correction of any such error, omissions and/or negligent acts or of its liability for loss or damage resulting therefrom.

23. CONTRACTOR'S LIABILITY INSURANCE

- A. THE CONTRACTOR SHALL NOT COMMENCE WORK UNDER THIS CONTRACT UNTIL THEY HAVE OBTAINED ALL INSURANCE REQUIRED HEREIN AND SUCH INSURANCE HAS BEEN APPROVED BY THE CITY. Nor shall the contractor allow any sub-contractor to commence work until all similar insurance required of the sub-contractor has been so obtained.
- B. The City of Evanston shall be named as an additional insured on the policy of the contractor for whatever the policy limits are for the contractor, but in no event shall the Comprehensive General Liability limits be less than \$3,000,000.00.
- C. If the contractor has more than one project for which he has a contract with the City of Evanston there shall be separate Certificates of Insurance naming the City as an additional insured on each separate policy.
- D. In the event of accidents, injuries, or unusual events, whether or not any injury occurred, the contractor shall promptly furnish the City with copies of all reports of such incidents.
- E. The contractor shall furnish one (1) copy of a certificate, with the City named as an additional insured, showing the following minimum coverage with insurance company acceptable to the City.

24. PRE-CONSTRUCTION MEETING

- A. A pre-construction meeting will be scheduled for the successful Contractor at a date immediately following awarding of the Contracts.

25. LIQUIDATED DAMAGES

- A. The Contractor shall, and agrees to pay, per calendar day, the amount listed in the Schedule of Deductions presented in Article 108.09 of the Standard Specifications (based upon the total Contract Price) as liquidated damages for failure to meet the completion deadlines identified below:

Substantial Completion Deadline: September 26th, 2025
Final Completion Deadline: October 24th, 2025

- B. Substantial Completion shall be defined as the stage in the progress of the work when the work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the City can occupy or utilize the work for its intended use. Substantial Completion will be certified by the issuance of a Certificate of Substantial Completion, to be issued by the City's representative, when the Contractor has satisfied the above statement.
- C. Final Completion shall be defined as the stage in the progress of the work when all work on site is fully complete, including punch list work, with the exception of restoration grass establishment.

26. EXTENSION OF TIME

- A. Delays due to causes beyond the control of the contractor other than such as reasonable would be expected to occur in connection with or during the performance of the work, may entitle the contractor to an extension of time for completing the work sufficient to compensate for such delay. No extension of time shall be granted, however, unless the contractor shall notify the City in writing thereof, within ten (10) days from the initiation of the delay and unless he shall, within ten (10) days after the expiration of the delay, notify the City in writing of the extension of time claimed on account thereof and then only to the extent, if any, allowed by the City.

27. DEFAULT

- A. The City may, subject to the provisions of this section, by written notice of default to Contractor, terminate the whole or any part of this contract in any one of the following circumstances:
1. if the Contractor fails to perform the services within the time specified herein, or any extension thereof; or
 2. if the contractor fails to perform any of the other provisions of this contract, or so fails to make progress as to endanger performance of this contract in accordance with its terms, and in either of these two circumstances does not cure failure within a period of 10 days (or such other extended period as the City may authorize in writing) after receipt of notice from the City specifying such failure
- B. In the event the City terminates this contract in whole or in part as provided in this

section, the City may procure, upon such terms and in such manner as the City may deem appropriate, services similar to those so terminated, and the Contractor will be liable to the City for any excess costs for such similar services.

- C. The Contractor will not be liable for any excess of costs if acceptable evidence has been submitted to the City that the failure to perform the contract was due to causes beyond the control and without fault or negligence of the Contractor.
- D. Contractors who default may not be considered for awards of future City contracts.

28. USE OF PREMISES

- A. The contractor shall confine his apparatus, the storage of materials and the operations of his workers, to limits indicated by law, ordinances, permits or directions of the City.

29. DISCLOSURES AND POTENTIAL CONFLICTS OF INTEREST (30 ILCS 500/50-35)

- A. The City of Evanston's Code of Ethics prohibits public officials or employees from performing or participating in an official act or action with regard to a transaction in which he has or knows he will thereafter acquire an interest for profit, without full public disclosure of such interest. This disclosure requirement extends to the spouse, children and grandchildren, and their spouses, parents and the parents of a spouse, and brothers and sisters and their spouses.

To ensure full and fair consideration of all bids, the City of Evanston requires all Bidders including owners or employees to investigate whether a potential or actual conflict of interest exists between the Bidder and the City of Evanston, its officials, and/or employees. If the Bidder discovers a potential or actual conflict of interest, the Bidder must disclose the conflict of interest in its bid, identifying the name of the City of Evanston official or employee with whom the conflict may exist, the nature of the conflict of interest, and any other relevant information. The existence of a potential or actual conflict of interest does NOT, on its own, disqualify the disclosing Bidder from consideration. Information provided by Bidders in this regard will allow the City of Evanston to take appropriate measures to ensure the fairness of the bidding process.

The City of Evanston requires all bidders to submit a certification, enclosed with this bid packet, that the bidder has conducted the appropriate investigation and disclosed all potential or actual conflicts of interest.

By submitting a bid, all Bidders acknowledge and accept that if the City of Evanston discovers an undisclosed potential or actual conflict of interest, the City of Evanston may disqualify the Bidder and/or refer the matter to the appropriate authorities for investigation and prosecution.

INSURANCE REQUIREMENTS

<u>TYPE OF INSURANCE</u>	<u>MINIMUM INSURANCE COVERAGE</u>	
	Consequent Death	Bodily Injury and Property Damage
	Each Occurrence	Aggregate
Commercial General Liability including:	\$3,000,000	\$3,000,000
1. Comprehensive form		
2. Premises - Operations		
3. Explosion & Collapse Hazard		
4. Underground Hazard		
5. Products/Completed Operations Hazard		
6. Contractual Insurance – With an endorsement on the face of the certificate that it includes the "Indemnity" paragraph of the specifications.	<u>Insurance Certificate Must State: The City Of Evanston is Named as Additional Insured</u>	
7. Broad Form Property Damage - construction projects only		
8. Independent contractors		
9. Personal Injury		
Automobile Liability Owned, Non-owned or Rented	\$ 1,000,000	\$1,000,000
Workmen's Compensation and Occupational Diseases As required by applicable laws. Employer's Liability		\$ 500,000

Thirty day notice of cancellation required on all certificates.

EXHIBIT A – BID FORM
For
2025 Court Improvements: James, Leahy, Ackerman, and Mason Parks
(BID #25-24)

1.01 BID TO:

THE CITY OF EVANSTON

909 Davis Street
Evanston, Illinois 60201

Hereinafter called "OWNER".

1.02 BID FROM:

(Hereinafter call "BIDDER")

Address

Telephone Number

Fax Number

1.03 BID FOR:

2025 Court Improvements: James, Leahy, Ackerman, and Mason Parks

1.04 ACKNOWLEDGEMENT:

- A. The Bidder, in compliance with the Invitation for Bids, having carefully examined the Drawings and Project Manual with related documents and having visited the site of the proposed Work, and being familiar with all of the existing conditions and limitations surrounding the construction of the proposed project, including the structure of the ground, subsurface conditions, the obstacles which may be encountered, local restrictions, and all other relevant matters concerning the Work to be performed, hereby PROPOSES to perform everything required to be performed, and to provide all labor, materials, necessary tools and equipment, expendable equipment, all applicable permits and taxes and fees, and provide all utility and

transportation services necessary to perform and complete in a workmanlike manner the Project in accordance with all the plans, specifications and related Contract Documents as prepared by the City of Evanston.

- B. The undersigned hereby acknowledges receipt of Invitation of Bids, Instruction to Bidder, the Project Manual, Drawings, and other Contract Documents and acknowledges receipt of the following Addenda:

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

1.05 GENERAL STATEMENTS

- A. The undersigned has checked all of the figures contained in this proposal and further understands that the Owner will not be responsible for any errors or omissions made therein by the undersigned.
- B. It is understood that the right is reserved by the Owner to reject any or all proposals, to waive all informality in connection therewith and to award a Contract for any part of the work or the Project as a whole.
- C. The undersigned declares that the person(s) signing this proposal is/are fully authorized to sign on behalf of the named firm and to fully bind the named firm to all the conditions and provisions thereof.
- D. It is agreed that no person(s) or company other than the firm listed below or as otherwise indicated hereinafter has any interest whatsoever in this proposal or the Contract that may be entered into as a result thereof, and that in all respects the proposal is legal and fair, submitted in good faith, without collusion or fraud.
- E. It is agreed that the undersigned has complied and/or will comply with all requirements concerning licensing and with all other local, state and national laws, and that no legal requirement has been or will be violated in making or accepting this proposal, in awarding the Contract to him, and/or in the prosecution of the Work required hereunder.
- F. To be considered a bona fide offer, this proposal must be completed in full and accompanied by a bid deposit or a bid bond when required by Contract Documents or Addenda.

1.06 ALTERNATES

- A. When alternate proposals are required by Contract Documents or Addenda thereto, the undersigned proposes to perform alternates for herein stated additions to or deductions from hereinbefore stated Base Bid. Additions and deductions include all modifications of Work or additional Work that the

undersigned may be required to perform by reason of the acceptance of alternates.

1.07 ALLOWANCE

- A. The allowance is intended to address items not able to be precisely determined prior to bidding including unforeseen conditions that are discovered during the course of construction. At the end of the project, unspent allowance shall be credited to owner via change order. See Section 01 21 00 – Allowances for additional information.

1.08 AGREEMENT

- A. In submitting this Bid, the undersigned agrees:
1. To hold this Bid open for sixty (60) days from submittal date.
 2. To enter into and execute a Contract with the Owner within ten (10) days after receiving Notice of Award from the Owner.
 3. To accomplish the work in accordance with the Contract Documents.
 4. To complete the work by the time stipulated in the General Conditions
- B. The Owner reserves the right to reject any and all Bids and to waive any informalities in Bidding.

1.09 SCHEDULE

- A. See General Conditions for required schedule of completion dates.

1.10 PROPOSED PRICES

- A. The Bidder hereby proposes to furnish all labor, materials, equipment, transportation, construction plant and facilities necessary to complete, in a workmanlike manner and in accordance with the contract documents, the contract of work bid upon herein for compensation in accordance with the following prices:

CATEGORY	PRICE
JAMES PARK PICKLEBALL COURTS – ALL WORK AT JAMES PARK EXCLUSIVE OF CONCRETE FLATWORK ON OUTSIDE OF COURT SPACE	\$
LEAHY PARK TENNIS COURTS – ALL WORK AT LEAHY PARK EXCLUSIVE OF ASPHALT AND CONCRETE FLATWORK ON OUTSIDE OF COURT SPACE AND PICNIC TABLES.	\$
JAMES/LEAHY PARK PATHWAYS – ALL CONCRETE AND ASPHALT WORK AT JAMES PARK AND LEAHY PARK LOCATED OUTSIDE OF COURT SPACE.	\$
LEAHY PARK PICNIC TABLES – ALL ASSOCIATED COSTS WITH PICNIC TABLES AT LEAHY PARK.	\$
ALLOWANCE (ADDITIONAL WORK – GENERAL)	\$ +40,000
TOTAL BASE BID AMOUNT (ADDITION OF ALL ITEMS ABOVE)	\$

ALTERNATE 1 – ACKERMAN PARK TENNIS COURT COLOR COATING

Alternate cost for new color coating and new line work on the courts at Ackerman Park as depicted in the contract documents. The ADD/DEDUCT LUMP SUM PRICE, if awarded to the undersigned, shall be:

ALTERNATE 1 AMOUNT: \$ _____

ALTERNATE 2 – ACKERMAN PARK TENNIS COURT RESURFACING

Alternate cost to mill/resurface as well as provide new color coating, linework, and associated improvements at Ackerman Park as depicted in the construction documents. The ADD/DEDUCT LUMP SUM PRICE, if awarded to the undersigned, shall be:

ALTERNATE 2 AMOUNT: \$ _____

ALTERNATE 3 – MASON PARK TENNIS COURT RESURFACING

Alternate cost to reconstruct court pavements as well as provide new color coating, linework, and associated improvements as Mason Park as depicted in the construction documents. The ADD/DEDUCT LUMP SUM PRICE, if awarded to the undersigned, shall be:

ALTERNATE 3 AMOUNT: \$ _____

1.11 UNIT PRICING LIST

The undersigned submits the following UNIT PRICING LIST to be performed as shown on the Plans and/or described in the Specifications, and agrees that items of work not specifically mentioned in the Schedule which are necessary and required to complete the work intended shall be done incidental to and as part of the work for which a unit price is given, and understands that no additional payment will be made for such incidental work from the estimated quantities shown below. Unit prices for individual line items shall be used for the project's schedule of values, pay applications and will also be used to determine the amount to ADD TO or DEDUCT FROM the contract LUMP SUM PRICE for properly authorized additional or deducted work. Bidders shall examine plans and determine actual work items and quantities for the work involved for bid analysis by the Owner. **Include the cost for the base bid quantity of each unit price item below in the Lump Sum Base Bid Amount above.**

Item	Description	Unit	Base Bid Quantity	Add Unit Cost *	Deduct Unit Cost *
1	Soil Disposal Analysis – James Park	EA	1	\$	\$
2	Special Non-Hazardous Waste Disposal – James Park	CY	110	\$	\$
3	Fence Repair	LF	30	\$	\$
4	Asphalt Crack Repair	LF	700	\$	\$
5	Asphalt Base Repair	SF	350	\$	\$

* Costs to be provided by Bidder

1.12 BID SECURITY

If required by the bid documents, a scanned copy of the bid bond must be included with the bid electronic submission. The City is currently not able to accept a certified check, bank cashier's check or electronic bid bond at this time.

- A. The City of Evanston Civic Center is unable to receive in person drop-off and it is closed to the public. The original bid bond must be mailed within ten (10) days after the due date, to the City of Evanston Purchasing Department, 909 Davis Street, Evanston, Illinois 60201 Attention Purchasing Manager using the USPS (certified or priority), UPS or FedEx mail options in order to have a tracking number.
- B. Accompanying this electronic submittal is a scanned copy of a bank draft, bid bond, Cashier's check or Certified check as surety in the amount of not less than five percent (5%) of the Total Bid payable to the City of Evanston.

The amount of the check or draft is: \$ _____

If this bid is accepted and the undersigned shall fail to execute a contract and contract bond as required it is hereby agreed that the amount of the check or draft or bidder's bond substituted in lieu thereof, shall become the property of the City and shall be considered as payment of damages due to delay and other causes suffered by the City because of the failure to execute said contract and contract bond; otherwise said check or draft shall be returned to the undersigned.

In the event that one check or draft is intended to cover two or more bids, the amount must be equal to the sum of the project proposal guarantees of the individual sections covered.

If the check or draft is placed on another project proposal, state below where it may be found, as follows: The check or draft will be found in the project proposal for:

_____.

1.13 PERFORMANCE/PAYMENT BOND

The undersigned bidder agrees to provide Performance Bond and Payment Bond executed in accordance with Contract Performance Bond form furnished by and acceptable to the Owner written with _____

_____ in the amount of 100% of the Contract Sum (Total Base Bid and all accepted alternatives and adjustments) the cost of which is included in the Bid.

Cost of bond for change order is _____ percent of change order cost.

1.14 LIQUIDATED DAMAGES

The undersigned Bidder understands and agrees to the provisions stated under "LIQUIDATED DAMAGES" in the General Conditions and shall be assessed at the specified daily rate for each calendar day or partial calendar day until completion as defined herein.

1.15 MATERIAL SUBSTITUTION SHEET

The following is a schedule of substitute materials I propose to furnish on this job, with the difference in price being added to or deducted from the Base Bid. The Base Bid is understood to include only those items which are definitely specified by trade names or otherwise.

I understand that if no price difference is indicated, then the selection of materials is optional with the Owner, and approval or rejection of the substitution below will be indicated prior to signing of Contracts.

<u>PRODUCT NAME AND/OR MANUFACTURER</u>	<u>ADD</u>	<u>DEDUCT</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

1.16 PROPOSAL SIGNATURE (REQUIRED)

A. SOLE PROPRIETOR

Signature of Bidder: _____

SUBSCRIBED AND SWORN to before me this ____ day of ____, 20__

Notary Public

Commission Expires: _____

B. PARTNERSHIP

Signature of All Partners: _____

Name (typed or printed)

Name (typed or printed)

SUBSCRIBED AND SWORN to before me this ____ day of ____, 20__

Notary Public

Commission Expires: _____

C. CORPORATION

Signature of Authorized Official: _____

Title: _____

Name above (typed or printed): _____

(If other than the president, attach a certified copy of that section of corporate by-laws or other authorization by the Corporation which permits the person to execute the offer for the Corporation.)

(Corporate Seal)

Attest: _____
Secretary

SUBSCRIBED AND SWORN to before me this ____ day of ____, 20__

Notary Public

Commission Expires: _____

1.17 DISCLOSURE

- A. The undersigned duly sworn deposes and says on oath that the bidder has withheld no disclosures of ownership interest and the information provided herein to the best of its knowledge is current and said undersigned has not entered into any agreement with any other bidder or prospective bidder or with any other person, firm or corporation relating to the price named in said proposal or any other proposal, nor any agreement or arrangement under which any person, firm or corporation is to refrain from bidding, nor any agreement or arrangement for any act or omission in restraint of free competition among bidders and has not disclosed to any person, firm or corporation the terms of this bid or the price named herein.

Bidder: _____

Business Address: _____

Telephone Number: _____

1.18 CONTACTS

- A. In the event the Evanston City Council approves this bid response, list the name, address, telephone, and fax number of the person to be contacted:

Bidder: _____

Address: _____

Telephone Number: _____

Fax Number: _____

1.19 REFERENCES

- A. Provide three (3) references for which your firm has completed work of a similar scope in the past.

1. Name: _____

Address: _____

Contact Person: _____

Phone: _____

Contract Value: _____

Contract Dates: _____

2. Name: _____

Address: _____

Contact Person: _____

Phone: _____

Contract Value: _____

Contract Dates: _____

3. Name: _____

Address: _____

Contact Person: _____

Phone: _____

Contract Value: _____

Contract Dates: _____

EXHIBIT B

City of Evanston M/W/D/EBE Policy

A City of Evanston goal is to provide contracting and sub-contracting opportunities to Minority Business Enterprises, Women Business Enterprises, Disadvantaged and Evanston Business Enterprises. The goal of the Minority, Women, Disadvantaged and Evanston Business Enterprise Program (M/W/D/EBE) is to assist such businesses with opportunities to grow. To assist such growth, the City's goal is to have general contractors utilize M/W/D/EBEs to perform no less than 25% of the awarded contract.

Firms bidding on projects with the City must work to meet the 25% goal or request a waiver from participation. It is advised that bidders place advertisements requesting sub-contractors and that they email or contact individual firms that would be appropriate to partner in response to the project. For samples of possible advertisements, see the City of Evanston's Business Diversity Section <http://www.cityofevanston.org/business/business-diversity/> ([Sample Advertisement](#)). If you request a paper copy of the additional documents, it will be available free of charge from the Purchasing Office, 909 Davis Street, Evanston, IL 60201.

If a bidder is unable to meet the required M/W/D/EBE goal, the Bidder must seek a waiver or modification of the goal on the attached forms. Bidder must include:

1. A narrative describing the Bidder's efforts to secure M/W/D/EBE participation prior to the bid opening.
2. Documentation of each of the assist agencies that were contacted, the date and individual who was contacted, and the result of the conversation (see form)
3. A letter attesting to instances where the bidder has not received inquiries/proposals from qualified M/W/D/EBEs
4. Names of owners, addresses, telephone numbers, date and time and method of contact of qualified M/W/D/EBE who submitted a proposal but was not found acceptable.
5. Names of owners, addresses, telephone numbers, date and time of contact of at least 15 qualified M/W/D/EBEs the bidder solicited for proposals for work directly related to the Bid prior to the bid opening (copies must be attached).

If a bidder is selected with a Sub-contractor listed to meet the M/WD/EBE goal, a "monthly utilization report" will be due to the City prior to each payment being issued to the Contractor. This report will include documentation of the name of the firm hired, the type of work that firm performed, etc. Should the M/W/D/EBE not be paid according to the schedule proposed in this document, the City reserves the right to cancel the contract. Examples of this monthly form can be found on the City's website: <http://www.cityofevanston.org/business/business-diversity/> ([MWDEBE Monthly Utilization Report](#)).

EXHIBIT C

M/W/D/EBE PARTICIPATION COMPLIANCE FORM

I do hereby certify that

_____ (Name of firm) intends to participate
as a Subcontractor or General Contractor on the project referenced above.

This firm is a (check only one):

_____ Minority Business Enterprise (MBE), a firm that is at least 51% managed and
controlled by a minority, certified by a certifying agency within Illinois.

_____ Women's Business Enterprise (WBE), a firm that is at least 51% managed and
controlled by a woman, certified by a certifying agency within Illinois.

_____ Disadvantaged Business Enterprise (DBE), a firm that is at least 51% managed and
controlled by a disadvantaged, certified by a certifying agency within Illinois.

_____ Evanston Based Enterprise (EBE), a firm located in Evanston for a minimum of one
year and which performs a "commercially useful function".

Total proposed price of response \$ _____

Amount to be performed by a M/W/D/EBE \$ _____

Percentage of work to be performed by a M/W/D/EBE _____ %

Information on the M/W/D/EBE Utilized:

Name _____

Address _____

Phone Number _____

Signature of firm attesting to participation _____

Title and Date _____

Type of work to be performed _____

Please attach:

1. Proper certification documentation if applying as a M/W/D/EBE and check the appropriate box below. This M/W/D/EBE will be applying with documentation from:

☐ Cook County	☐ State Certification
☐ Federal Certification	☐ Women's Business Enterprise National Council
☐ City of Chicago	☐ Chicago Minority Supplier Development Council

2. Attach business license if applying as an EBE

EXHIBIT C

M/W/D/EBE UTILIZATION SUMMARY REPORT

The following Schedule accurately reflects the value of each MBE/WBE/DBE/EBE sub-agreement, the amounts of money paid to each to date, and this Pay Request. The total proposed price of response submitted is _____.

MBE/WBE/DBE/EBE FIRM NAME	FIRM TYPE (MBE/WBE/ DBE/EBE)	SERVICES PERFORMED	AMOUNT OF SUB- CONTRACT	PERCENT OF TOTAL CONTRACT AMOUNT
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
TOTAL			\$	

EXHIBIT D

M/W/D/EBE PARTICIPATION WAIVER REQUEST

I am _____ of _____, and I have authority to
(Title) (Name of Firm)

execute this certification on behalf of the firm. I _____ do
(Name)

hereby certify that this firm seeks to waive all or part of this M/W/D/EBE participation goal
for the following reason(s):

(CHECK ALL THAT APPLY. SPECIFIC SUPPORTING DOCUMENTATION MUST BE ATTACHED.)

_____ 1. No M/W/D/EBEs responded to our invitation to bid.

_____ 2. An insufficient number of firms responded to our invitation to bid.

For #1 & 2, please provide a narrative describing the outreach efforts from your firm and proof of contacting at least 15 qualified M/W/D/EBEs prior to the bid opening. Also, please attach the accompanying form with notes regarding contacting the Assist Agencies.

_____ 3. No sub-contracting opportunities exist.

Please provide a written explanation of why sub-contracting is not feasible.

_____ 4. M/W/D/EBE participation is impracticable.

Please provide a written explanation of why M/W/D/EBE participation is impracticable.

Therefore, we request to waive _____ of the 25% utilization goal for a revised goal of _____%.

Signature: _____
(Signature)

Date: _____

EXHIBIT E**Construction Contractors' Assistance Organizations ("Assist Agencies") Form**

AGENCY	DATE CONTACTED	CONTACT PERSON	RESULT OF CONVERSATION
Association of Asian Construction Enterprises (AACE) 5500 Touhy Ave., Unit K Skokie, IL 60077 Phone: 847-5259693 Perry Nakachii, President			
Black Contractors United (BCU) 400 W. 76th Street Chicago, IL 60620 Phone: 773-483-4000; Fax: 773-483-4150 Email: bcunewera@ameritech.net			
Chicago Minority Business Development Council 105 West Adams Street Chicago, Illinois 60603 Phone: 312-755-8880; Fax: 312-755-8890 Email: info@chicagomsdc.org Shelia Hill, President			
Evanston Minority Business Consortium, Inc. P.O. Box 5683 Evanston, Illinois 60204 Phone: 847-492-0177 Email: embcinc@aol.com			
Federation of Women Contractors 5650 S. Archer Avenue Chicago, Illinois 60638 Phone: 312-360-1122; Fax: 312-360-0239 Email: FWCChicago@aol.com Contact Person: Beth Doria Maureen Jung, President			
Hispanic American Construction Industry (HACIA) 901 W. Jackson, Suite 205 Chicago, IL 60607 Phone: 312-666-5910; Fax: 312-666-5692 Email: info@haciaworks.org			
Women's Business Development Ctr. 8 S. Michigan Ave, Suite 400 Chicago, Illinois 60603 Phone: 312-853-3477 X220; Fax: 312-853-0145 Email: wbdc@wbdc.org Carol Dougal, Director			

PLEASE NOTE: Use of Construction Contractor's Assistance Organization (Assist Agencies") Form and agencies are for use as a resource only. The agencies and or vendors listed are not referrals or recommendations by the City of Evanston.

EXHIBIT F

CITY OF EVANSTON LOCAL EMPLOYMENT PROGRAM (LEP) COMPLIANCE

Effective Date January 1, 2015

City of Evanston Ordinance 60-O-14, Local Employment Program (LEP) New Penalties:

- **Ordinance 60-O-14**, Amendment to the MWDEBE/LEP revising the penalty section from a \$100/per day to a 1.0% of total project value penalty can be found at: Ordinance 60-O-14 Amendment MWEDBE LEP of the Evanston City Code Section 1-17-1 (C) can be found at Municode Library. The following are excerpts from Ordinance 60-O-14, Amending City Code Section 1-17-1(C) (11): Penalty.

If the contractor or sub-contractor fails to comply: The City may impose a fine up to one percent (1.0%) of the approved project price in total. Contractors or sub-contractors that are out of compliance due to a resident termination or resignation shall immediately notify the Business Workforce Compliance Coordinator of this occurrence within two (2) business days. Subsequently, the contractor or sub-contractor shall have five (5) additional business days to replace a terminated or resigned worker with another resident.

If the contractor or sub-contractor fails to comply: If the contractor or sub-contractor fails to make the replacement or to notify the Business Workforce Compliance Coordinator of this occurrence, the offending party will also be subject to a penalty up to one percent (1.0%) of the approved project price. If the noncompliant contractor makes a good faith effort to replace the resident, the fine may be waived.

If the contractor or sub-contractor fails to comply: At the sole discretion of the City, a contractor or sub-contractor that has violated the terms of the Local Employment Program within a three-year period may be determined a non-responsible bidder and excluded from bidding on future projects for a period of not less than one year.

If the employee (LEP Evanston resident) fails to comply: At the sole discretion of the City, an employee that has been hired through the LEP may be removed from the program for a period of not less than one year for failing to adhere to program guidelines or due to termination by the contractor for cause. Such termination process will be reviewed by the Business Workforce Compliance Coordinator.

****Detailed Local Employment Program Instructions “How to Comply” can be found at: [Local Employment Program Detailed Instructions](#)**

Local Employment Program or Exhibit F Questions: City staff is available for assistance to help with compliance. Submit questions in writing to Nathan Norman, Youth/Young Adult Program Supervisor at nnorman@cityofevanston.org or Tammi Nunez, Purchasing Manager at tnunez@cityofevanston.org.

EXHIBIT F
LOCAL EMPLOYMENT PROGRAM COMPLIANCE
CITY CODE SECTION 1-17-1(C): LOCAL EMPLOYMENT PROGRAM

I have read and understood the requirements of the City of Evanston Local Employment Program ("LEP") as set forth in City of Evanston Code Section 1-17-1(C): Local Employment Program. I intend to comply with the program as follows:

Estimated total labor cost = \$ _____ 15% of total labor cost = \$ _____

- _____ My total bid, including all alternates, is under \$250,000, and the LEP does not apply.
- _____ My total bid, including all alternates, is equal to or greater than \$250,000, and I already employ, and will continue to employ for the duration of the contract for which I am submitting this bid, Evanston residents (residing in zip codes 60201 or 60202) for at least 15% of all hours worked at the construction site by construction trade workers.
- _____ My total bid, including all alternates, is equal to or greater than \$250,000, and I will employ, for the duration of the contract for which I am submitting this bid, through use of the City of Evanston database or otherwise, Evanston residents (residing in zip codes 60201 or 60202) for at least 15% of all hours worked at the construction site by construction trade workers.
- _____ My total bid, including all alternates, is equal to or greater than \$250,000, and I have been unable to comply with the LEP requirements but am willing to work with the City to achieve compliance.
- _____ My total bid, including all alternates, is equal to or greater than \$250,000, and after having made sincere attempt to comply as noted below, I seek a waiver on a portion or all of the LEP requirements on this contract. Complete next section "Reasons for Waiver Request" below.

I UNDERSTAND THAT FAILURE TO COMPLY WITH THE LEP, REGARDLESS OF INTENT, MAY RESULT IN MAXIMUM PENALTY AS SET FORTH IN CITY CODE SECTION 1-17-1(C)(11), AS AMENDED.

WAIVER WILL BE GRANTED ONLY AFTER SINCERE ATTEMPT TO COMPLY*

REASONS FOR WAIVER REQUEST: PLEASE CHECK ALL THAT APPLY AND COMPLETE INFORMATION REQUESTED:

1. I have made sincere attempt as otherwise indicated below, but have nonetheless been unable to comply.
- a. I do or will employ Evanston residents for the project, but such employment amounts to ____% of total labor cost.
2. The nature of the job is so technical that after having made sincere attempt as otherwise indicated below, I have been unable to locate any Evanston residents qualified to perform any aspects of the work. Please describe applicable job requirements/qualifications. Attach separate sheet if necessary:

*THE FOLLOWING DEMONSTRATE **SINCERE ATTEMPT TO COMPLY**: PLEASE CHECK EACH BOX COMPLETED, AS APPLICABLE:

3. I have utilized the local resident database and otherwise worked with the City in attempt to hire Evanston residents in compliance with LEP on this project, and have nonetheless been unable to comply;
4. I have placed one or more ads in a local newspaper seeking to hire Evanston residents in compliance with LEP on this project, and have nonetheless been unable to comply; and
5. If I am utilizing union labor, I have contacted Chicagoland labor unions to request Evanston residents for employment in compliance with LEP on this project and have nonetheless been unable to comply.

I have read The City of Evanston, Local Employment Program (LEP) requirements as set forth in City Code Section 1-17-1(C): Local Employment Program. I understand and will comply with the LEP requirements for this project with respect to the job and/or any waiver, as applicable. **I UNDERSTAND THAT IF MY APPLICATION IS NOT COMPLETE, MY BID MUST BE REJECTED.**

SIGNED:

Signature Printed Name and Title Date
On behalf of Company: _____

Signature Printed Name and Title Date

On behalf of Company: _____

EXHIBIT G

**CERTIFICATION OF BIDDER REGARDING
EQUAL EMPLOYMENT OPPORTUNITY
(Only if Contract Exceeds \$10,000)**

This certification is required pursuant to Executive Order 11246 (30 F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed sub-contractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or sub-contract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after bid opening. No contract shall be awarded unless such report is submitted.

CERTIFICATION OF BIDDER

Name and Address of Bidder (Include ZIP Code)

IRS EMPLOYER I.D. NUMBER 36-_____

1. Bidder has participated in a previous contract or sub-contract subject to the Equal Opportunity Clause. ☐ Yes ☐ No
2. Bidder has filed all compliance reports due under applicable instructions. ☐ Yes ☐ No
3. Have you ever been or are you being considered for sanction due to violation of Executive Order 11246, as amended? ☐ Yes ☐ No

Name: _____

Title: _____

Signature: _____

Date: _____

EXHIBIT H

DISCLOSURE OF OWNERSHIP INTERESTS

City of Evanston Ordinance 15-0-78 requires all persons (APPLICANT) seeking to do business with the City to provide the following information with their bid. Every question must be answered. If the question is not applicable, answer with "NA".

APPLICANT NAME: _____

APPLICANT ADDRESS: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

APPLICANT is (**Check One**)

1. Corporation () 2. Partnership () 3. Sole Owner () 4. Association ()

5. Other () _____

Please answer the following questions on a separate attached sheet if necessary.

SECTION I - CORPORATION

1a. Names and addresses of all Officers and Directors of Corporation.

1b. (Answer only if corporation has 33 or more shareholders.) Names and addresses of all those shareholders owning shares equal to or in excess of 3% of the proportionate ownership interest and the percentage of shareholder interest. (Note: Corporations which submit S.E.C. form 10K may substitute that statement for the material required herein.)

- 1c. (Answer only if corporation has fewer than 33 shareholders.) Names and addresses of all shareholders and percentage of interest of each herein. (Note: Corporations which submit S.E.C. form 10K may substitute that statement for the material requested herein.)

SECTION 2 - PARTNERSHIP/ASSOCIATION/JOINT VENTURE

- 2a. The name, address, and percentage of interest of each partner whose interests therein, whether limited or general is equal to or in excess of 3%.

- 2b. Associations: The name and address of all officers, directors, and other members with 3% or greater interest.

SECTION 3 - TRUSTS

- 3a. Trust number and institution.

- 3b. Name and address of trustee or estate administrator.

3c. Trust or estate beneficiaries: Name, address, and percentage of interest in total entity.

SECTION 4 - ALL APPLICANTS - ADDITIONAL DISCLOSURE

4a. Specify which, if any, interests disclosed in Section 1, 2, or 3 are being held by an agent or nominee, and give the name and address of principal.

4b. If any interest named in Section 1, 2, or 3 is being held by a "holding" corporation or other "holding" entity not an individual, state the names and addresses of all parties holding more than a 3% interest in that "holding" corporation or entity as required in 1(a), 1(b), 1(c), 2(a), and 2(b).

4c. If "constructive control" of any interest named in Sections 1, 2, 3, or 4 is held by another party, give name and address of party with constructive control. ("Constructive control" refers to control established through voting trusts, proxies, or special terms of venture of partnership agreements.)

I have not withheld disclosure of any interest known to me. Information provided is accurate and current.

Date

Signature of Person Preparing Statement

Title

ATTEST: _____
Notary Public

(Notary Seal)

Commission Expires: _____

EXHIBIT I

ADDITIONAL INFORMATION SHEET

Bid/Proposal Name: _____

Bid/Proposal Number #: _____

Company Name: _____

Contact Name: _____

Address: _____

City, State, Zip: _____

Telephone/FAX: # _____

E-mail: _____

Comments: _____

EXHIBIT J

**CERTIFICATE OF COMPLIANCE
WITH PREVAILING WAGE RATE ACT**

The undersigned, upon being first duly sworn, hereby certifies to the City of Evanston, Cook, County, Illinois, that all work under this contract shall comply with the Prevailing Wage Rate Act of the State of Illinois, 820 ILCS 130 *et seq*, and as amended by Public Acts 86-799 and 86-693 and current City of Evanston Resolution, with rates to be paid in effect at time work is performed. Contractors shall submit monthly certified payroll records to the city.

Name of Contractor: _____

By: _____

By: State of _____, County of _____

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

Notary Public

EXHIBIT K

MAJOR SUB-CONTRACTORS LISTING

The following Tabulation of Major Sub-contractors 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 sub-contractors used in the prosecution of the work will be those listed below.
- B. The following list includes all sub-contractors who will perform work representing 5% (five percent) or more of the total Base Bid.
- C. The sub-contractors listed below are financially responsible and are qualified to perform the work required.
- D. The sub-contractors listed below comply with the requirements of the Contract Documents.
- E. Any substitutions in the sub-contractors listed below shall be requested in writing by the Contractor and must be approved in writing by the Owner. All pertinent financial, performance, insurance and other applicable information shall be submitted with the request for substitutions(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.

<u>Category</u>	<u>Name of Sub-contractor</u>	<u>Address and Telephone</u>

(Attach additional sheets as required)

END OF SECTION

EXHIBIT L

CONFLICT OF INTEREST

_____, hereby certifies that it has conducted an investigation into whether an actual or potential conflict of interest exists between the Bidder, its owners and employees and any official or employee of the City of Evanston.

Bidder further certifies that it has disclosed any such actual or potential conflict of interest and acknowledges if Bidder/proposer has not disclosed any actual or potential conflict of interest, the City of Evanston may disqualify the bid/proposal.

(Name of Bidder/proposer if the Bidder/proposer is an Individual)

(Name of Partner if the Bidder/proposer is a Partnership)

(Name of Officer if the Bidder/proposer is a Corporation)

The above statements must be subscribed and sworn to before a notary public.
Subscribed and Sworn to this _____ day of _____, 20

Notary Public

(Notary Seal)

Commission Expires: _____

EXHIBIT M

SIGNATURE FORM

THE SECTION BELOW MUST BE COMPLETED IN FULL AND SIGNED

The undersigned hereby certifies that they have read and understand the contents of this solicitation and attached service agreements, and agree to furnish at the prices shown any or all of the items above, subject to all instructions, conditions, specifications and attachments hereto. Failure to have read all the provisions of this solicitation shall not be cause to alter any resulting contract or to accept any request for additional compensation. By signing this document, the proposer hereby certifies that they are not barred from bidding on this contract as a result bid rigging or bid rotating or any similar offense (720 ILCS 5/33 E-3, E-4).

Authorized Signature: _____

Company Name: _____

Typed/Printed Name: _____

Date: _____

Title: _____

Telephone Number: _____

E-mail _____

Fax Number: _____

Exhibit N

Contractor Services Agreement Acknowledgement Page

The City has attached its standard contractor services agreement as an exhibit to this bid document. Identify all exceptions to the agreement that would prevent your firm from executing it. **The City shall not consider or negotiate regarding exceptions submitted at any time after the submission of the Bidder's response.** *Please check one of the following statements:*

____ I have read the contractor services agreement and plan on executing the agreement without any exceptions.

____ My firm cannot execute the City's standard contractor service agreement unless the exceptions noted below or in the attached sample contractor services agreement are made.

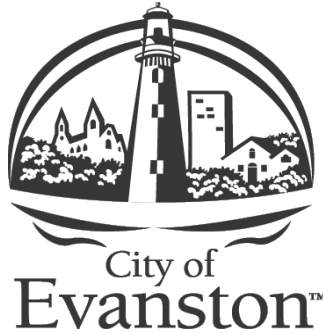
*****Please be aware that submitting exceptions to the contract may impact the likelihood of your firm being selected to perform this work.**

List exceptions in the area below:

Authorized Signature: _____ **Company Name:** _____

Typed/Printed Name and Title: _____ **Date:** _____

Exhibit N



CONTRACTOR SERVICES AGREEMENT

The parties referenced herein desire to enter into an agreement for professional services for

**2025 Court Improvements: James, Leahy, Ackerman, and Mason Parks
(BID #25-24)**

THIS AGREEMENT (hereinafter referred to as the “Agreement”) is entered into between the City of Evanston, an Illinois municipal corporation with offices located at 909 Davis Street, Evanston Illinois 60201 (hereinafter referred to as the “City”), and [Insert Contractor name here], with offices located at [Insert Contractor address here], (hereinafter referred to as the “Contractor”). Compensation (the “Compensation”) for all basic services provided by the Contractor pursuant to the terms of this Agreement shall not exceed \$/[Insert fee here].

Revision March 2020

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RECITALS

WHEREAS, the City intends to retain the services of a qualified and experienced contractor for the following:

[Insert whatever project specific background and language is appropriate]

WHEREAS, this Agreement shall include the following documents which are attached hereto:

- a) City of Evanston RFQ/RFP/Bid _____, attached as Exhibit A.
- b) Contractor's response to RFQ/RFP/Bid _____, attached as Exhibit B.
- c) Any sub-contractor sub-contracts related to this Agreement, attached as Exhibit C.
- d) Project Fee Schedule and hourly rates, attached as Exhibit D *(if appropriate)*.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, the parties agree as follows:

1 Services and Duties of the Contractor

1.1 The Contractor shall perform professional services and provide equipment (the "Work") in accordance with Exhibits A, B, C and D. The Contractor retains the right to control the manner of performance of the services provided for in this Agreement and is an independent contractor and not agent or an employee of the City. All employees and sub-contractors of the Contractor shall likewise not be considered to be employees of the City. Contractor is solely responsible for the means and methods of all work performed under the terms of this Agreement for this Project ("the Project"). Contractor is an independent Contractor and is solely responsible for all taxes, withholdings, and other statutory or contractual obligations of any sort, including but not limited to, Worker's Compensation Insurance. Nothing in this Agreement accords any third-party beneficiary rights whatsoever to any non-party to this Agreement that any non-party may seek to enforce. Contractor acknowledges and agrees that should Contractor or its sub-contractors provide false information, or fail to be or remain in compliance with this Agreement; the City may void this Agreement.

1.2 The Contractor warrants and states that it has read the Contract Documents, and agrees to be bound thereby, including all performance guarantees as respects Contractor's work and all indemnity and insurance requirements. Contractor further affirms that it has visited the Project site and has become familiar with all special conditions, if any, at the Project site. Contractor shall perform the Work and its obligations under this Agreement in accordance with and subject to the Contract Documents to the full extent that each such provision is applicable to the Work. Contractor shall take necessary precautions to properly protect the Work of others, if any, from damage caused by operations under this Agreement. In addition, Contractor shall protect the work during normal and adverse weather conditions until the Project is complete and accepted by the City, or until the Contractor has fully completed its work under this Agreement. Contractor's obligations include, but are not limited to, placing and adequately maintaining at or about all locations of Project work,

sufficient guards, barricades, lights, and enclosures to protect the Work.

1.3 The Contractor shall not have any public or private interest and shall not acquire directly or indirectly any such interest which conflicts in any manner with the performance of its services under this Agreement.

1.4 The Contractor shall designate, in writing, a person to act as its Project Manager for the work to be performed under this Agreement. Such person shall have complete authority to transmit instructions, receive information, interpret and define the Contractor's policies and decisions with respect to the work covered by this Agreement.

1.5 The Contractor shall employ only persons duly licensed by the State of Illinois to perform the professional services required under this Agreement for which applicable Illinois law requires a license, subject to prior approval of the City. The Contractor shall employ only well qualified persons to perform any of the remaining services required under this Agreement, also subject to prior approval of the City. The City reserves the right to require replacement of Contractor, sub-contractor, or supplier personnel for any reason. Contractor will replace the unacceptable personnel at no charge to the City. For all solicitations or advertisements placed by or on behalf of Contractor for employees for this Project it will state that the Contractor is an Equal Opportunity Employer.

1.6 Pursuant to the Illinois Freedom of Information Act, 5 ILCS 140/7(2), records in the possession of others whom the City has contracted with to perform a governmental function are covered by the Act and subject to disclosure within limited statutory timeframes (five (5) working days with a possible five (5) working day extension). Upon notification from the City that it has received a Freedom of Information Act request that calls for records within the Contractor's control, the Contractor shall promptly provide all requested records to the City so that the City may comply with the request within the required timeframe. The City and the Contractor shall cooperate to determine what records are subject to such a request and whether or not any exemption to the disclosure of such records, or part thereof, is applicable. Contractor shall indemnify and defend the City from and against all claims arising from the City's exceptions to disclosing certain records which Contractor may designate as proprietary or confidential. Compliance by the City with an opinion or a directive from the Illinois Public Access Counselor or the Attorney General under FOIA, or with a decision or order of Court with jurisdiction over the City, shall not be a violation of this Section.

1.7 The Contractor shall obtain prior approval from the City prior to sub-contracting with any entity or person to perform any of the work required under this Agreement. The Contractor may, upon request of the City, submit to the City a draft sub-contractor agreement for City review and approval prior to the execution of such an agreement. Any previously entered into sub-contractor agreement(s) are attached as Exhibit C. If the Contractor sub-contracts any of the services to be performed under this Agreement, the sub-contractor agreement shall provide that the services to be performed under any such agreement shall not be sublet, sold, transferred, assigned or otherwise disposed of to another entity or person without the City's prior written consent. The Contractor shall be responsible for the accuracy and quality of any sub-contractor's work.

1.8 The Contractor shall cooperate fully with the City, other City contractors, other municipalities and local government officials, public utility companies, and others, as may be directed by the City. This shall include attendance at meetings, discussions and hearings as requested by the City. This cooperation shall extend to any investigation, hearings or meetings convened or instituted by OSHA relative to this Project, as necessary. Contractor shall cooperate with the City in scheduling and performing its Work to avoid conflict, delay in or interference with the work of others, if any, at the Project.

1.9 The Contractor acknowledges that it shall enforce and comply with all applicable Occupational Safety and Health Administration standards (OSHA) for this Project in effect as of the date of the execution of this Agreement, or as otherwise promulgated by OSHA in the future taking effect during the pendency of this Project. Contractor shall enforce all such standards and ensure compliance thereto as to its own agents and employees, and as to the agents and employees of any sub-contractor throughout the course of this Project. Contractor is solely responsible for enforcing and complying with all applicable safety standards and requirements on this Project, and is solely responsible for correcting any practices or procedures which do not comply with the applicable safety standards and requirements for this Project. Any Project specific safety requirements applicable to this Project must be followed by Contractor and any sub-contractor(s) on the Project. Additionally, all such safety requirements shall be made a part of any sub-contractor agreement.

1.10 The Contractor shall submit to the City a progress report each month this Agreement is in effect. The report shall include the following items:

- a) A summary of the Contractor's project activities, and any sub-contractor project activities that have taken place during the invoice period;
- b) A summary of the Contractor's project activities and any sub-contractor project activities, that shall take place during the next invoice period;
- c) A list of outstanding items due to or from the City; and
- d) A status of the Project schedule.

1.11 The Contractor shall perform the work required under this Agreement pursuant to high quality industry standards expected by the City. The Contractor shall apply for and receive all appropriate permits before performing any work in the City. The Contractor shall also provide the appropriate permit drawings for Building Permits to be issued for the Project, if said permits are obligated by the Project. The City will assist the Contractor with obtaining the appropriate building and right-of-way permits.

1.12 The Contractor shall provide drawings of record, in the following 3 electronic formats for all locations where equipment has been installed and/or work has been performed. The electronic formats required by this Section 1.12 are Auto Cad Version 2025, ArcView and PDF.

1.13 Contractor recognizes that proper cleanup and removal of construction debris is an important safety consideration. The Contractor shall be solely responsible for daily construction site/area cleanup and removal of all construction debris in accordance with City-approved disposal practices. Contractor shall be solely responsible for identifying and removing at its expense all

hazardous material and waste which it uses and generates.

1.14 To the extent that there is any conflict between a provision specified in this Agreement, with a provision specified in any of the other Contract Documents, as defined in Section 1.15, this Agreement shall control. The City and the Contractor may amend this Section 1.14 as provided by Section 15 herein.

The Contractor acknowledges and agrees that the City has no retained control over any of the Work done pursuant to this Agreement, and that the City is expressly exempt from the retained control exception as defined in the Restatement of Torts, Second, Section 414. This provision shall survive completion, expiration, or termination of this Agreement.

1.15 The Contract Documents for this Project consist of:

- a) This Agreement;
- b) The City's RFP/RFQ, and the plans, specifications, general conditions, drawings addenda, and modifications thereto;
- c) The Contractor's response to the RFP/RFQ/Bid;
- d) Other exhibits and schedules, if any, listed in this Agreement;
- e) Amendments or Other Contract Documents, if any; and
- f) Amendments/Modifications to this Agreement issued after execution thereof.

1.16 As a condition of receiving payment, Contractor must (i) be in compliance with the Agreement, (ii) pay its employees prevailing wages when required by law (Examples of prevailing wage categories include public works, printing, janitorial, window washing, building and grounds services, site technician services, natural resource services, security guard and food services). Contractor is responsible for contacting the Illinois Dept. of Labor 217-782-6206; <http://www.illinois.gov/idol/Laws-Rules/CONMED/Pages/Rates.aspx> to ensure compliance with prevailing wage requirements), (iii) pay its suppliers and sub-contractors according to the terms of their respective contracts, and (iv) provide lien waivers to the City upon request.

2 Standard Certifications

Contractor acknowledges and agrees that compliance with this section and each subsection for the term of the Agreement is a material requirement and condition of this Agreement. By executing this Agreement, Contractor certifies compliance with this section and each subsection and is under a continuing obligation to remain in compliance and report any non-compliance.

This section, and each subsection, applies to sub-contractors used on this Agreement. Contractor shall include these Standard Certifications in any sub-contract used in the performance of the Agreement.

If this Agreement extends over multiple fiscal years, Contractor and its sub-contractors shall confirm compliance with this section in the manner and format determined by the City by the date specified by the City and in no event later than January 1 of each year that this Agreement remains in effect.

If the City determines that any certification in this section is not applicable to this Agreement, it may be stricken, subject to sole approval by the City, without affecting the remaining subsections.

2.1 As part of each certification, Contractor acknowledges and agrees that should Contractor or its sub-contractors provide false information, or fail to be or remain in compliance with the Standard Certification requirements, one or more of the following sanctions will apply:

- the Agreement may be void by operation of law,
- the City may void the Agreement, and
- Contractor and its sub-contractors may be subject to one or more of the following: suspension, debarment, denial of payment, civil fine, or criminal penalty.

2.2 By signing this Agreement, the Contractor certifies that it has not been barred from being awarded a contract with a unit of State or local Government as a result of bid rigging or bid rotating or similar offense, nor has it made any admission of guilt of such conduct that is a matter of public record. (720 ILCS 5/33 E-3, E-4).

2.3 In the event of the Contractor's noncompliance with any provision of Section 1-12-5 of the Evanston City Code, the Illinois Human Rights Act or any other applicable law, the Consultant may be declared non-responsible and therefore ineligible for future contracts or sub-contracts with the City, 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 regulation.

2.4 During the term of this Agreement, the Contractor agrees as follows:

- a) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, or age or physical or mental disabilities that do not impair ability to work, and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization. Consultant shall comply with all requirements of City of Evanston Code Section 1-12-5.
- b) That, in all solicitations or advertisements for employees placed by it on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, national origin, ancestry, or disability.

2.5 The Contractor certifies pursuant to the Illinois Human Rights Act (775 ILCS 5/2-105 *et. seq.*), that it has a written sexual harassment policy that includes, at a minimum, the following information:

- a) The illegality of sexual harassment;

- b) The definition of sexual harassment under State law;
- c) A description of sexual harassment utilizing examples;
- d) The Contractor's internal complaint process including penalties;
- e) Legal recourse, investigation and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission, and directions on how to contact both; and
- f) Protection against retaliation as provided to the Department of Human Rights.

2.6 In accordance with the Steel Products Procurement Act (30 ILCS 565), Contractor certifies steel products used or supplied in the performance of a contract for public works shall be manufactured or produced in the U.S. unless the City grants an exemption.

2.7 Contractor certifies that it is properly formed and existing legal entity and as applicable has obtained an assumed name certificate from the appropriate authority, or has registered to conduct business in Illinois and is in good standing with the Illinois Secretary of State.

2.8 If Contractor, or any officer, director, partner, or other managerial agent of Contractor, has been convicted of a felony under the Sarbanes-Oxley Act of 2002, or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953, Contractor certifies at least five years have passed since the date of the conviction.

2.9 Contractor certifies that if more favorable terms are granted by Contractor to any similar governmental entity in any state in a contemporaneous agreement let under the same or similar financial terms and circumstances for comparable supplies or services, the more favorable terms will be applicable under this Agreement.

2.10 Contractor certifies that it is not delinquent in the payment of any fees, fines, damages, or debts to the City of Evanston.

2.11 The Contractor certifies that all Design Professionals performing the Work under this Agreement will ensure that the Project shall be designed in conformance with the Americans with Disabilities Act of 1990, 42 U.S.C. Section 12101, *et seq.*, and all regulations promulgated thereunder. Design Professional means any individual, sole proprietorship, firm, partnership, joint venture, corporation, professional corporation, or other entity that offers services under the Illinois Architecture Practice Act of 1989 (225 ILCS 305/), the Professional Engineering Practice Act of 1989 (225 ILCS 325/), the Structural Engineering Licensing Act of 1989 (225 ILCS 340/), or the Illinois Professional Land Surveyor Act of 1989 (225 ILCS 330/).

2.12 The Contractor shall comply with all federal, state and local laws, statutes, ordinances, rules, regulations, orders or other legal requirements now in force or which may be in force during the term of this Agreement. The Contractor shall comply with the Illinois Human Rights Act, 775 ILCS 5/1-101 *et. seq.*, Title VII of the Civil Rights Act of 1964, and the Illinois Prevailing Wage Act, 820 ILCS 130/0.01 *et. seq.*

3 Additional Services/Change Orders

3.1 If the representative of the City responsible for the Project verbally requests the Contractor to perform additional services, the Contractor shall confirm in writing that the services have been requested and that such services are additional services. Failure of the City to respond to the Contractor's confirmation of said services within thirty (30) calendar days of receipt of the notice shall be deemed a rejection of, and refusal to pay for the additional services. Contractor shall not perform any additional services until City has confirmed approval of said additional services in writing. If authorized in writing by the City, the Contractor shall furnish, or obtain from others, additional services of the following types, which shall be paid for by the City as set forth in Section 9 of this Agreement:

- a) Additional Services due to significant changes in scope of the Project or its design, including, but not limited to, changes in size, complexity or character of construction, or time delays for completion of work when such delays are beyond the control of the Contractor;
- b) Revisions of previously approved studies, reports, design documents, drawings or specifications;
- c) Preparation of detailed renderings, exhibits or scale models for the Project;
- d) Investigations involving detailed consideration of operations, maintenance and overhead expenses for the preparation of rate schedules, earnings and expense statements, feasibility studies, appraisals and valuations, detailed quantity surveys of material and labor, and material audits or inventories required for certification of force account construction performed by the City;
- e) Services not otherwise provided for in this Agreement.

3.2 The City may, upon written notice, and without invalidating this Agreement, require changes resulting in the revision or abandonment of work already performed by the Contractor, or require other elements of the work not originally contemplated and for which full compensation is not provided in any portion of this Agreement. Any additional services, abandonment of services which were authorized by the City, or changes in services directed by the City which result in the revision of the scope of services provided for in Exhibits A, B, C, and D that cause the total Compensation due Contractor under this Agreement to exceed \$25,000 or more, or increase or decrease the contract duration by more than 30 days are subject to approval by the Evanston City Council. These actions must be addressed either in a written Change Order or in a written amendment to this Agreement approved by both parties.

3.3 Contractor acknowledges and agrees that the Public Works Construction Change Order Act, 50 ILCS 525/1 et seq. shall apply to all Change Orders for the Project. It is expressly understood and agreed to by Contractor that it shall not be entitled to any damages or Compensation from the City on account of delay or suspension of all or any part of the Work. Contractor acknowledges that delays are inherent in construction projects and Contractor assessed that risk and fully included that risk assessment within its contract sum specified in its Response to the City **RFP/RFQ/Bid** for this Project. The City shall not compensate Contractor for work that is more difficult than the contract sum specified in its Response would reflect. Delays to minor portions of the Work will not be eligible for extensions of time.

Delays to the Project caused by labor disputes or strikes involving trades not directly related to the Project, or involving trades not affecting the Project as a whole will not be eligible for an extension of time.

The City will not grant an extension of time for a delay by the Contractor's inability to obtain materials unless the Contractor first furnishes to the City documentary proof. The proof must be provided in a timely manner in accordance with the sequence of the Contractor's operations and accepted construction schedule.

In addition to any other changes requested by City (as described in Sections 3.1 and 3.2), the Company shall be entitled to request (and the City may grant) Change Orders with respect to:

- (a) The City-caused delays;
- (b) Change in Law;
- (c) Force Majeure Events.

The foregoing events shall entitle the Contractor to a change in the Compensation for this Project, if the Contractor demonstrates that it will unavoidably incur reasonable costs as a result thereof and the Contractor provides reasonable and detailed documentary support with respect to any such price impact.

The parties agree to reasonably confer regarding any such disputes with respect to the issuance of a Change Order.

Any payment for compensable delay will only be based upon actual costs excluding, without limitation, what damages, if any, the Contractor may have reasonably avoided. The Contractor understands that this is the sole basis for recovering delay damages and explicitly waives any right to calculate daily damages for office overhead, profit, or other purported loss.

All Contractor Change Orders authorized under this Section 3 shall be made in writing. In remitting a Change Order, the Contractor must first show in writing that:

- (a) The work was outside the scope of this Agreement,
- (b) The extra work was not made necessary due to any fault of Contractor;
- (c) The circumstances said to necessitate the change in performance were not reasonably foreseeable at the time the Agreement was signed;
- (d) The change is germane to the original Agreement; and
- (e) The Change Order is in the best interest of the City and authorized by law.

Any person who fails to first obtain the City's written authorization for a Change Order commits a Class 4 felony. The written determination and the written Change Order resulting from that determination shall be preserved in the contract's file which shall be open to the public for inspection.

The City reserves all rights and causes of action, at law or equity, to seek redress against entities or persons who violate the requirements of this Section 3. By initialing below, Contractor hereby acknowledges that it is bound by this Section 3.

Contractor's Initials: _____

3.4 The Contractor is required to include the City of Evanston as a reference whenever and wherever the Contractor provides references for similar projects for a period of one (1) year from the date of Final Acceptance by the City of the Work for this Project.

4 Bonds

4.1 Before the Scheduled Construction Commencement Date, the Contractor is required to furnish unconditional performance and payment bonds in the amount of 100% of the Compensation as security for the faithful performance and completion of all the Contractor's obligations under the Contract Documents and covering the payment of all materials used in the performance of this Agreement and for all labor and services performed under this Agreement. All Bonds shall be issued on a form acceptable to the City. The bonds must be for the entire term of the Agreement. Failure to provide these bonds shall constitute a breach of Contractor's obligations under this Agreement. Each surety providing the Bonds must have a Best's rating not less than A/X and be licensed in Illinois and shall be named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 as published in the Federal Register and available on the website of the U.S. Department of the Treasury, Financial Management Service, at www.fms.treas.gov/c570/c570.html. All Bonds signed by an agent must be accompanied by a certified copy of his or her authority to act. It shall be the duty of the Contractor to advise the surety or sureties of any Change Orders that result in an increase to the Compensation and to ensure that the amounts of the Bonds are updated to reflect and cover any such increases throughout the course of the Project. The cost of such Bonds shall be included within the Compensation.

4.2 If the surety behind any Bond furnished by the Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in the State or it ceases to meet any of the requirements of this Contract, the Contractor shall, within [5] five days thereafter, substitute another Bond of equivalent value and surety, both of which must be acceptable to the City. In addition, no further progress payments under the Agreement will be made by the City until the Contractor complies with the provisions of this Agreement. The Contractor shall furnish to the City proof of any required bonds and proof of required insurance as one of the conditions precedent to payment under the Agreement. Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment or performance of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or authorize a copy to be furnished. All surety Bonds provided for in this Section shall incorporate by reference this Agreement, and any language that may be in any such surety Bond which conflicts with the provisions of this Agreement that define the scope of the surety('s) duty(ies) shall be of no force and effect.

5 Liquidated Damages in the Event Contractor Fails to Complete the Work

5.1 The parties agree that failure of Contractor to timely complete the Work required by this Agreement constitutes a default. The parties agree that this default will result in damage and injury to City. The parties further agree, however, that actual damages incurred by City as result of such default is difficult if not impossible to ascertain with any degree of certainty or accuracy. Accordingly, the parties have negotiated and have agreed that for each calendar day after written notice is delivered to Contractor and Contractor fails to cure such default, that Contractor will pay City, as and for liquidated damages, and not as a penalty, a sum in the amount as specified in Section 108.09 of the IDOT Standard Specifications per calendar day. Contractor shall reimburse the City for all costs, expenses and fees (including, without limitation, attorneys' fees), if any, paid by the City in connection with such written demand by City. Contractor stipulates and agrees that the sums payable by Contractor under this Section are reasonable under the circumstances existing as of the execution of this Agreement. This Section 5.1 is not intended to limit any direct damages that may be recoverable by City related to the Contractor's failure to complete the Work in accordance with this Agreement. There shall be no early completion bonus if the Work is completed before the contract's deadlines. The City, at its option, may withhold liquidated damages from progress payments payable to Contractor before project completion.

6 The City's Responsibilities

6.1 The City may evaluate the Contractor's and any sub-contractor's performance (interim and final). Timeliness in meeting the Project schedule and the overall relationship with the Contractor are factors that will be considered in the Contractor's performance rating. An unfavorable performance rating may be a factor when future assignments are being considered.

6.2 The City makes no representation or warranty of any nature whatsoever as to the accuracy of information or documentation provided by the City to the Contractor which were generated or provided by third parties.

7 Period of Service

7.1 The Contractor shall commence work on the Project after supplying the City with the Contractor's performance and payment bonds and all required insurance documents before starting its Work on this Project. The City shall determine when the Contractor has completed the Work required pursuant to this Agreement, and shall determine the date of Final Acceptance. Contractor recognizes time is of the essence regarding its performance on this Project. Contractor shall continue to perform its obligations while any dispute concerning the Agreement is being resolved, unless otherwise directed by the City.

8 Payment for Services and Reimbursements

8.1 Within the first five (5) business days of each month, the Contractor shall invoice the City for Work completed during the previous month. The Contractor shall provide a detailed invoice that relates invoiced items to the Contractor's response to RFQ/RFP/Bid in both quantity and unit cost. Any discrepancies in the monthly invoice shall be promptly brought to the attention of

the Contractor by the City Project Manager and efforts shall be made to promptly resolve said discrepancies between the City and Contractor. In the event the City and Contractor cannot resolve invoice discrepancies, items in dispute will be removed from the invoice and the City shall approve the remainder of the invoice. Payment will be made as soon as possible following the City Council meeting in which the item appeared on the bills list, and in accordance with all applicable laws and rules of the City of Evanston and the State of Illinois.

8.2 In the event of termination by the City of this Agreement pursuant to paragraph 9.1 after completion of any phase of the basic services, fees due the Contractor for services rendered through such phase shall constitute final payment for such services, and no further fees shall be due to the Contractor. In the event of such termination by the City during any phase of the basic services, the Contractor shall be paid for services rendered on the basis of the proportion of work completed on the phase to date of termination.

8.3 The City shall have the right to withhold payment to the Contractor due to the quality of a portion or all of the work performed hereunder which is not in accordance with the requirements of this Agreement, or which is unsatisfactory, or is due to the Contractor's failure or refusal to perform any of its obligations hereunder. Compensation in excess of the total contract amount specified in this Agreement will not be allowed unless justified in the City's sole judgment and authorized in advance as provided for in Section 3 of this Agreement. Compensation for improper performance by the Contractor is disallowed.

8.4 Upon completion of the Work performed by the Contractor, prior to the submission of a request for final payment, the City and Contractor shall perform a final acceptance test and review of the Work performed and/or equipment installed pursuant to the Agreement. A punch list of items outstanding will be jointly developed by the City and Contractor. In addition, the Contractor shall submit drawings of record for the Project for the City to approve. The Contractor shall promptly resolve all punch list items to the satisfaction of the City, and shall transmit to the City in writing confirmation that all punch list items have been resolved. The City will review, and the Contractor shall modify, as necessary, any drawings of record to the satisfaction of the City. Punch list items and drawings of record must be approved by the City prior to the Contractor submitting its final invoice for payment.

8.5 The Contractor shall submit an Affidavit and a final waiver of its lien, and all final waivers of liens of any sub-contractors, suppliers, and sub-sub-contractors, if applicable, with its final invoice, stating that all obligations incurred in performance of the professional services have been paid in full. The Affidavit will also include a statement stating that the professional services were performed in compliance with the terms of the Agreement. The Affidavit and all final lien waivers shall be on a form acceptable to the City.

8.6 All Project invoices shall be sent to:

City of Evanston
Public Works Agency
909 Davis Street
Evanston, Illinois 60201

EXHIBIT N

with a copy to:

City of Evanston
Attn: Kenon Boehm
909 Davis Street
Evanston, Illinois 60201

9 Notice and Cure/Termination

9.1 In furtherance of Contractor's Work on this Project, the City and the Contractor agree that the following Notice and Cure provision in this Section 9.1 shall apply during the duration of Contractor's work on this Project, in addition to the reserved rights of the City enumerated in this Agreement as follows:

- 5.1 Liquidated Damages;
- 8.3 City's right to withhold payment;
- 16.2 Contractor's duty to revise and correct errors; and
- 16.3 Contractor's duty to respond to City's notice of errors and omissions.

The City may notify Contractor of its intent to terminate this Agreement within (7) seven calendar days of issuance by the City of written notice to Contractor's Project Manager regarding defects in the Project or in Contractor's Work. The City shall specify any such nonconforming Work or defects in the Project in its notice to Contractor under this Section 9.1. Contractor will have the opportunity to cure the non-conforming Work within (7) seven calendar days after receipt of the written notice issued by the City. All such curative work done shall be performed and completed to the City's satisfaction. Nothing in this Section 9.1 shall otherwise affect the City's right to exercise its rights in Section 9.2.

9.2 The City shall have the right to terminate this Agreement upon fifteen (15) days written notice for any reason. Mailing of such notice shall be equivalent to personal notice and shall be deemed to have been given at the time of receipt.

Payments made by the City pursuant to this Agreement are subject to sufficient appropriations made by the City of Evanston City Council. In the event of termination resulting from non-appropriation or insufficient appropriation by the City Council, the City's obligations hereunder shall cease and there shall be no penalty or further payment required.

9.3 Within thirty (30) days of termination of this Agreement, the Contractor shall turn over to the City any documents, drafts, and materials, including but not limited to, outstanding work product, data, studies, test results, source documents, AutoCAD Version 2025, ArcView, PDF, Word, Excel spreadsheets, technical specifications and calculations, and any other such items specifically identified by the City related to the Work herein. Upon receipt of said items, the Contractor shall be paid for labor and expenses incurred to the date of termination as provided in Section 8.2. This Agreement is subject to termination by either party if either party is restrained by a state or federal court of competent jurisdiction from performing the provisions of this Agreement.

Upon such termination, the liabilities of the parties to this Agreement shall cease, but they shall not be relieved of the duty to perform their obligations through the date of termination. No lien shall be filed by the Contractor in the event of a termination of this Agreement by the City.

9.4 If, because of death or any other occurrence, including, but not limited to, Contractor becoming insolvent, it becomes impossible for any principal or principals of the Contractor to render the services set forth in this Agreement, neither the Contractor, nor its surviving principals shall be relieved of their obligations to complete the professional services. However, in the event of such an occurrence, the City at its own option may terminate this Agreement if it is not furnished evidence that competent professional services can still be furnished as scheduled.

9.5 In the event of an emergency or threat to the life, safety or welfare of the citizens of the City, the City shall have the right to terminate this Agreement without prior written notice.

10 Insurance

10.1 The Contractor shall, at its own expense, secure and maintain in effect throughout the duration of this contract, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Work hereunder by the Contractor, its agents, representatives, employees or sub-contractors. Contractor acknowledges and agrees that if it fails to comply with all requirements of this Section 10, the City may void the Agreement.

The Contractor must give to the City Certificates of Insurance identifying the City to be an Additional Insured for all Work done pursuant to this Agreement before City staff recommends award of the contract to City Council. Any limitations or modifications on the Certificate(s) of Insurance issued to the City in compliance with this Section that conflict with the provisions of this Section 10 shall have no force and effect.

After award of the Contract to Contractor (contracts over \$500,000 in value or if the project is deemed high risk) the Contractor **shall** give the City a certified copy (ies) of the insurance policy (ies) evidencing the amounts set forth in Section 10.2, and copies of the Additional Insured endorsement to such policy (ies) which name the City as an Additional Insured for all Work done pursuant to this Agreement before Contractor does any Work pursuant to this Agreement. Contractor's certificate of insurance shall contain a provision that the coverage afforded under the policy(s) will not be canceled or reduced without thirty (30) days prior written notice (hand delivered or registered mail) to the City. Contractor shall promptly forward new certificate(s) of insurance evidencing the coverage(s) required herein upon annual renewal of the subject policies.

The policies and the Additional Insured endorsement must be delivered to the City within two (2) weeks of the request. All insurance policies shall be written with insurance companies licensed or authorized to do business in the State of Illinois and having a rating of not less than A-VII according to the A.M. Best Company. Should any of the insurance policies be canceled before the expiration date, the issuing company will mail thirty (30) days written notice to the City. The Contractor shall require and verify that all sub-contractors maintain insurance meeting all of the requirements stated herein.

Any deductibles or self-insured retentions must be declared to and approved by the City. At the option of the City, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the City, its officers, officials, employees and volunteers; or the Contractor shall provide a financial guarantee satisfactory to the City guaranteeing payment of losses and related investigations, claim administration and defense expenses.

10.2 Contractor shall carry and maintain at its own cost with such companies as are reasonably acceptable to City all necessary liability insurance (which shall include as a minimum the requirements set forth below) during the term of this Agreement, for damages caused or contributed to by Contractor, and insuring Contractor against claims which may arise out of or result from Contractor's performance or failure to perform the Services hereunder:

- a) Worker's compensation in statutory limits and employer's liability insurance in the amount of at least five hundred thousand dollars (\$500,000);
- b) Comprehensive general liability coverage which designates the City as an additional insured for not less than three million dollars (\$3,000,000) combined single limit for bodily injury, death and property damage, per occurrence;
- c) Comprehensive automobile liability insurance covering owned, non-owned, and leased vehicles for not less than one million dollars (\$1,000,000) combined single limit for bodily injury, death, or property damage, per occurrence; and

Contractor understands that the acceptance of Certificates of Insurance, policies, and any other documents by the City in no way releases the Contractor and its sub-contractors from the requirements set forth herein.

Contractor expressly agrees to waive its rights, benefits and entitlements under the "Other Insurance" clause of its commercial general liability insurance policy as respects the City. Contractor expressly agrees that its insurance coverage is required to be primary by this Agreement, that its insurance coverage shall be on a primary and non-contributory basis, and that it and its insurance carrier are estopped from denying such coverage is primary. In the event Contractor fails to purchase or procure insurance as required above, the parties expressly agree that Contractor shall be in default under this Agreement, and that the City may recover all losses, attorney's fees and costs expended in pursuing a remedy, or reimbursement, at law or in equity, against Contractor.

11 Indemnification

11.1 The Contractor shall defend, indemnify and hold harmless the City and its officers, elected and appointed officials, agents, and employees from any and all liability, losses, or damages as a result of claims, demands, suits, actions, or proceedings of any kind or nature, including but not limited to costs, and fees, including attorney's fees, judgments or settlements, resulting from or arising out of any negligent or willful act or omission on the part of the Contractor or Contractor's sub-contractors, employees, agents or sub-contractors during the performance of this Agreement. Such indemnification shall not be limited by reason of the enumeration of any insurance coverage herein provided. This provision shall survive completion, expiration, or termination of this Agreement.

11.2 Nothing contained herein shall be construed as prohibiting the City, or its officers, agents, or employees, from defending through the selection and use of their own agents, attorneys, and experts, any claims, actions or suits brought against them. The Contractor shall be liable for the costs, fees, and expenses incurred in the defense of any such claims, actions, or suits. Nothing herein shall be construed as a limitation or waiver of defenses available to the City and employees and agents, including but not limited to the Illinois Local Governmental and Governmental Employees Tort Immunity Act, 745 ILCS 10/1-101 *et seq.*

At the City Corporation Counsel's option, Contractor must defend all suits brought upon all such Losses and must pay all costs and expenses incidental to them, but the City has the right, at its option, to participate, at its own cost, in the defense of any suit, without relieving Contractor of any of its obligations under this Agreement. Any settlement of any claim or suit related to this Project by Contractor must be made only with the prior written consent of the City Corporation Counsel, if the settlement requires any action on the part of the City.

To the extent permissible by law, Contractor waives any limits to the amount of its obligations to indemnify, defend, or contribute to any sums due under any Losses, including any claim by any employee of Contractor that may be subject to the Illinois Workers Compensation Act, 820 ILCS 305/1 *et seq.* or any other related law or judicial decision, including but not limited to, *Kotecki v. Cyclops Welding Corporation*, 146 Ill. 2d 155 (1991). The City, however, does not waive any limitations it may have on its liability under the Illinois Workers Compensation Act, the Illinois Pension Code or any other statute.

11.3 The Contractor shall be responsible for any losses and costs to repair or remedy work performed under this Agreement resulting from or arising out of any act or omission, neglect, or misconduct in the performance of its Work or its sub-contractors' work. Acceptance of the work by the City will not relieve the Contractor of the responsibility for subsequent correction of any such error, omissions and/or negligent acts or of its liability for loss or damage resulting therefrom.

11.4 All provisions of this Section 11 shall survive completion, expiration, or termination of this Agreement.

12 Drawings and Documents

12.1 Any drawings, survey data, reports, studies, specifications, estimates, maps, plans, computations, and other documents required to be prepared by the Contractor for the Project shall be considered Works for Hire and the sole property of the City.

12.2 The Contractor and its sub-contractor shall maintain for a minimum of three (3) years after the completion of this Agreement, or for three (3) years after the termination of this Agreement, whichever comes later, adequate books, records and supporting documents to verify the amounts, recipients and uses of all disbursements of funds passing in conjunction with the Agreement. The Agreement and all books, records and supporting documents related to the Agreement shall be available for review and audit by the City and the federal funding entity, if applicable, and the Contractor agrees to cooperate fully with any audit conducted by the City and to provide full access

to all materials. Failure to maintain the books, records and supporting documents required by this Subsection shall establish a presumption in favor of the City for recovery of any funds paid by the City under the Agreement for which adequate books, records, and supporting documentation are not available to support their purported disbursement.

13 Successors and Assigns

13.1 The City and the Contractor each bind themselves and their partners, successors, executors, administrators, and assigns to the other party of the Agreement and to the partners, successors, executors, administrators, and assigns of such other party in respect to all covenants of this Agreement. Neither the City nor the Contractor shall assign, sublet, or transfer its interest in this Agreement without the written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of any public body, which may be a party hereto, nor shall it be construed as giving any right or benefits hereunder to anyone other than the City and the Contractor.

14 Force Majeure

14.1 Whenever a period of time is provided for in this Agreement for the Contractor or the City to do or perform any act or obligation, neither party shall be liable for any delays or inability to perform if such delay is due to a cause beyond its control and without its fault or negligence including, without limitation:

- a) Acts of nature;
- b) Acts or failure to act on the part of any governmental authority other than the City or Contractor, including, but not limited to, enactment of laws, rules, regulations, codes or ordinances subsequent to the date of this Agreement;
- c) Acts of war;
- d) Acts of civil or military authority;
- e) Embargoes;
- f) Work stoppages, strikes, lockouts, or labor disputes;
- g) Public disorders, civil violence, or disobedience;
- h) Riots, blockades, sabotage, insurrection, or rebellion;
- i) Epidemics or pandemics;
- j) Terrorist acts;
- k) Fires or explosions;
- l) Nuclear accidents;
- m) Earthquakes, floods, hurricanes, tornadoes, or other similar calamities;
- n) Major environmental disturbances; or
- o) Vandalism.

If a delay is caused by any of the *force majeure* circumstances set forth above, the time period shall be extended for only the actual amount of time said party is so delayed. Further, either party claiming a delay due to an event of *force majeure* shall give the other party written notice of such event within three (3) business days of its occurrence or it shall be deemed to be waived.

15 Amendments and Modifications

15.1 Except as otherwise provided herein, the nature and scope of Work specified in this Agreement may only be modified by a written Change Order, or a written amendment to this Agreement, approved by both parties. This Agreement may be modified or amended from time to time provided, however, that no such amendment or modifications shall be effective unless reduced to writing and duly authorized and signed by the authorized representatives of the parties.

16 Standard of Care & Warranty

16.1 The Contractor shall perform all of the provisions of this Agreement to the satisfaction of the City. The City shall base its determination of the Contractor's fulfillment of the scope of the work in accordance with generally accepted professional standards applicable to the Work for this Project. The Contractor shall perform all of the provisions of this Agreement with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar conditions.

16.2 The Contractor shall be responsible for the accuracy of its professional services under this Agreement and shall promptly make revisions or corrections resulting from its errors, omissions, or negligent acts without additional compensation. The City's acceptance of any of the Contractor's professional services shall not relieve the Contractor of its responsibility to subsequently correct any such errors or omissions. If a Contractor has provided the City with specifications for this Project which are determined to be incorrect or which require revision during the solicitation process (including but not limited to Requests for Proposals, Requests for Qualifications, or bids), the Contractor shall make such corrections or revisions to the specifications at no cost to the City. Further, upon receipt of an invoice from the City, the Contractor shall promptly reimburse the City for the reasonable costs associated with the preparation and dissemination of said corrections or revisions to appropriate parties, including but not limited to preparation of the corrected or revised documents, and printing and distribution costs.

16.3 During the pendency of its Work on this Project, the Contractor shall respond to the City's notice of any errors or omissions within twenty-four (24) hours. The Contractor shall be required to promptly visit the Project site(s) if directed to by the City.

16.4 The Contractor shall comply with all federal, state, and local statutes, regulations, rules, ordinances, judicial decisions, and administrative rulings applicable to its performance under this Agreement.

16.5 Contractor guarantees and warrants to the City that:

- a) All materials and equipment furnished under this Agreement shall be of good quality and new, unless otherwise required or permitted by the Contract Documents;
- b) The Work of this Agreement shall be free from defects which are not inherent in the quality required; and
- c) The Work shall comply with the requirements set forth in the Contract Documents.

This warranty and guarantee shall be for a period of one(1) year from the date of completion and Final Acceptance of the Work by the City, or as otherwise provided in the Contract Documents.

If, within the one year warranty period, after the Contractor has received a final payment under this Agreement, any of the Work is found to be not be in accordance with the requirements of this Agreement, or where defects in materials or workmanship may appear, or be in need of repair, the Contractor shall correct non-conforming and/or defective work or materials promptly after receipt of written notice from the City. Contractor shall immediately at its own expense repair, replace, restore, or rebuild any such Work. This remedy is in addition to any other legal or equitable remedies the City may have under this Agreement or the law.

This guarantee and warranty shall not relieve Contractor of liability for latent defects, and shall be in addition to the City's rights under the law or other guarantees or warranties, express or implied.

16.6 The provisions of this Section 16 shall survive the completion, expiration or termination of this Agreement.

17 Savings Clause

17.1 If any provision of this Agreement, or the application of such provision, shall be rendered or declared invalid by a court of competent jurisdiction, or by reason of its requiring any steps, actions, or results, the remaining parts or portions of this Agreement shall remain in full force and effect.

18 Non-Waiver of Rights

18.1 No failure or delay by the City to exercise any power given to it hereunder or to insist upon strict compliance by Contractor with its obligations hereunder, nor any payment made by the City under this Agreement, shall constitute a waiver of the City's right to demand strict compliance with the terms hereof, unless such waiver is in writing and signed by the City.

19 Entire Agreement

19.1 This Agreement sets forth all the covenants, conditions and promises between the parties with regard to the subject matter set forth herein. There are no covenants, promises, agreements, conditions or understandings between the parties, either oral or written, other than those contained in this Agreement. This Agreement has been negotiated and entered into by each party with the opportunity to consult with its counsel regarding the terms therein. No portion of the Agreement shall be construed against a party due to the fact that one party drafted that particular portion as the rule of *contra proferentem* shall not apply.

20 Governing Law

20.1 This Agreement shall be construed in accordance with and subject to the laws and

rules of the City of Evanston and the State of Illinois both as to interpretation and performance. Venue for any action arising out of or due to this Agreement shall be in Cook County, Illinois. The City shall not enter into binding arbitration to resolve any dispute related to this Agreement. The City does not waive tort immunity by entering into this Agreement.

21 Ownership of Contract Documents

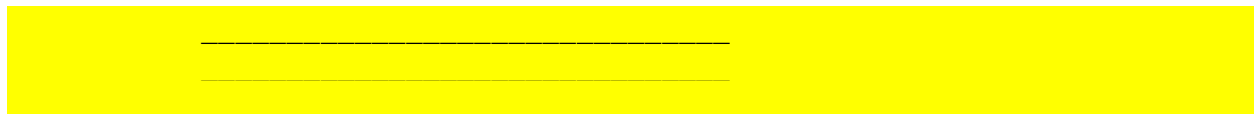
21.1 Contractor is specifically prohibited from using in any form or medium, the name or logo of the City for public advertisement, unless expressly granted written permission by the City. Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with this Project is not to be construed as publication in derogation of the City's reserved rights.

22 Notice

22.1 Any notice required to be given by this Agreement shall be deemed sufficient if made in writing and sent by certified mail, return receipt requested, or by personal service, to the persons and addresses indicated below or to such other addresses as either party hereto shall notify the other party of in writing pursuant to the provisions of this Subsection:

City of Evanston Project Manager, Bid 25-24
909 Davis Street
Evanston, Illinois 60201

if to the Contractor:

A large rectangular area of the document is redacted with a solid yellow background. It contains two horizontal lines, suggesting a space for an address or contact information.

22.2 Mailing of such notice as and when provided above shall be equivalent to personal notice and shall be deemed to have been given at the time of mailing.

23 Severability

23.1 Except as otherwise provided herein, the invalidity or unenforceability of any particular provision, or part thereof, of this Agreement shall not affect the other provisions, and this Agreement shall continue in all respects as if such invalid or unenforceable provision had not been contained herein.

24 Execution of Agreement

24.1 This Agreement shall be signed last by the City Manager.

25 Counterparts

25.1 For convenience, this Agreement may be executed in any number of counterparts,

EXHIBIT N

each of which shall be deemed to be an original.

26 Authorizations

26.1 The Contractor's authorized representatives who have executed this Agreement warrant that they have been lawfully authorized by the Contractor's board of directors or its bylaws to execute this Agreement on its behalf. The City Manager affirms that he/she has been lawfully authorized to execute this Agreement. The Contractor and the City shall deliver upon request to each other copies of all articles of incorporation, bylaws, resolutions, ordinances, or other documents which evidence their legal authority to execute this Agreement on behalf of their respective parties.

27 Time of Essence

27.1 Time is of the essence with respect to each provision hereof in which time is a factor.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be signed by their duly authorized representatives. The effective date of this Agreement will be the date this Agreement is signed by the City Manager.

CONTRACTOR

By: _____

Name: _____

Its: _____

Date: _____

CITY OF EVANSTON

By: _____

Luke Stowe

Its: City Manager

Date: _____

Approved as to form:

By: _____

Alexandra Ruggie

Its: Corporation Counsel

Revision: April 2021

EXHIBIT N

EXHIBIT O

BID BOND SUBMITTAL LABEL

CUT AND ATTACH LABEL ON OUTSIDE OF SEALED BID BOND SUBMITTAL



BID SUBMITTAL NUMBER: _____

BID SUBMITTAL NAME: _____

BID SUBMITTAL DUE DATE/TIME: _____

COMPANY NAME: _____

COMPANY ADDRESS: _____

COMPANY TELEPHONE #: _____



If required by the bid documents, a scanned copy of the bid bond must be included with the bid electronic submission. The City is currently not able to accept a certified check, bank cashier's check or electronic bid bond at this time.

The original bid bond (in the amount of 5% of the original bid amount) must be mailed within ten (10) days after the bid due date, to the City of Evanston Purchasing Department, 909 Davis Street, Evanston, Illinois 60201 Attention Purchasing Manager using the USPS (certified or priority), UPS or FedEx mail options in order to have a tracking number; which sum shall be forfeited in case the successful bidder fails to enter into a binding contract and provide a properly executed contract and surety bond within 15 days after the date the contract is awarded by the City.

SECTION 01 00 00

PROJECT REQUIREMENTS

PART 1 – GENERAL

1.01 GENERAL NOTE

- A. The following requirements are a component part of all contract divisions and form a part of each specification section in so far as they may be in any way applicable thereto.

1.02 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this section.

1.03 SCHEDULE OF DRAWINGS

- A. The following drawings form a component part of all contract documents for this project.

Title of the Drawings:

<u>Sheet No.</u>	<u>Drawing Title</u>
---	Cover Sheet
G-01	James Park Location Plan and Notes
G-02	Leahy Park Location Plan and Notes
G-03	Ackerman Park Location Plan and Notes
G-04	Mason Park Location Plan and Notes
R-01	James Park Demolition Plan
R-02	Leahy Park Demolition Plan
R-03	Ackerman Park Demolition Plan
R-04	Mason Park Demolition Plan
C-01	James Park Proposed Site Plan
C-02	Leahy Park Proposed Site Plan
C-03	Ackerman Park Proposed Site Plan
C-04	Mason Park Proposed Site Plan
D-01	Details
D-02	Details
S001	General Notes
S002	General Notes
S003	General Notes
S004	General Notes
S011	Special Inspections
S111	Foundation
S112	Section & Details

1.04 PROJECT SUMMARY

- A. Work on this project includes mill/resurface at James Park, Ackerman Park, Leahy, and Mason Parks. With additional pathway and fence work at Leahy Park. James Park will feature conversion of existing Tennis courts to Pickleball which deems new fencing and paneling as drawn.

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1.05 SPECIAL PROCEDURES AND REQUIREMENTS

A. Fire Protection

1. Regulations: The Contractor shall comply with all federal, state and local fire regulations.
2. Fires: The Contractor shall prohibit the lighting of fires about the premises and use due diligence to see that such prohibition is enforced. Debris and waste materials shall not be burned at the construction site but shall be promptly removed to prevent the accumulation of combustibles on the site.
3. Smoking: Smoking shall be restricted to designated exterior locations. The Contractor shall furnish and post "NO SMOKING" signs at appropriate locations throughout the site where operations are conducted.
4. Flammables: Gasoline and other fuels shall be kept and handled from National Board of Fire underwriter's approved safety cans and shall be stored away from hazardous work areas.

B. Limit of Contractor's Operations

1. Work Areas: Work areas shall be confined to the limits of the construction site. The allotment of work areas within the site to Subcontractors shall be made by the Contractor. The general scheme of operations, work area assignments and use of the job site shall be subject to the Owner's approval.
2. Site Access: Uncontrolled or unrestricted site access will not be permitted for materials, debris or equipment. All access routes and methods shall be controlled by the Contractor so as to minimize the disruption of the Owner's operations and shall be subject to approval by the Owner. Walks, roads and other existing site features used in moving materials shall be properly protected to prevent damage thereto.

C. Hoists, Scaffolds and Ladders

1. Hoists: The Contractor shall furnish, erect, operate and maintain suitable hoisting equipment as may be necessary for constructing the work. Material hoists shall be constructed and maintained in accordance with all applicable federal, state and local laws, regulations and ordinances. Location of hoists shall be subject to approval by the Owner's representative.
2. Scaffolds and Ladders: The Contractor shall furnish, erect, maintain and move all scaffold and ladders required for his work. Scaffolds shall be constructed and maintained in accordance with all applicable federal, state and local laws, regulations and ordinances. Scaffolds and ladders shall be promptly removed after their purpose has been served.

D. Documentation of Existing Conditions

1. Before starting any work, the Contractor shall examine the site to be worked on and the grounds in the staging area and areas adjacent to the site that will be worked on for any existing damage. The Contractor should notify the City's representative of any damage found immediately. The City will photograph and note any existing damage that has been brought to his attention by the

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Contractor. After the Work has been completed the City will inspect the area used by the Contractor. If any damage is found that was not reported previously, this damage would be considered to have been done by the Contractor. The cost to repair said damage shall be solely borne by the Contractor.

1.06 TEMPORARY CONSTRUCTION FACILITIES

- A. The following temporary utilities and facilities on the construction site shall be provided by the party indicated below:

<u>ITEM</u>	<u>PROVIDER</u>
Telephone	General Contractor
Electricity	General Contractor
Water	General Contractor
Toilets	General Contractor
Parking spaces for Contractor vehicles	Within job site only, no street parking
Parking spaces for workmen	Within job site only, no street parking
Storage areas & facilities	Limited unsecured space within job site
Temporary heat	General Contractor
Job-site trailers & offices	General Contractor

**PART 2 – PRODUCTS
(NOT APPLICABLE)**

**PART 3 – EXECUTION
(NOT APPLICABLE)**

END OF SECTION 01 00 00

**SECTION 01 01 00
SUMMARY OF WORK**

PART 1 – GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Project Manual and accompanying drawings are intended to cover the work necessary to construct the various headings of work as described in detail herein.
- B. The work to be performed under this contract shall consist of the furnishing of all materials, equipment, supplies, labor and transportation, and performing all work as required to strictly conform to the provisions of the specifications, schedules and drawings, all of which are made a part herein, together with such detail drawings as may be furnished by the Owner from time to time during the prosecution of the work in amplification of said drawings and specifications.

1.02 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this section.

1.03 CONTRACT ORGANIZATION

- A. This Construction Project is organized under a single contract between the Owner and the Contractor. The Contractor is responsible for all plans and specification sections as presented in this project manual.

1.04 WORK SEQUENCE

- A. All work and sequence of operations shall be as scheduled in conjunction with all subcontractors, and the Owner in such a manner as not to hinder or delay any other contractors in the progress of their work, and to an end that will expedite the work to completion at the earliest possible date.
- B. Both Contractor and Subcontractor shall cooperate to execute their work as scheduled to minimize the delays to each other and to cause the least inconvenience to the Owner and the public.

1.05 CONTRACTORS' USE OF PREMISES

- A. The Contract shall limit his use of the premises for work and for storage to allow for:
 - 1. Work by other contractors
 - 2. Owner occupancy
 - 3. Public use
- B. Coordinate the use of the premises under direction of the Owner. Stage work so as to avoid disruption to Owner's operation.
- C. Assume full responsibility for the protection and safekeeping of products under this Contract, which are stored at the project site or on the Contractor's property.
- D. Move any stored products, under Contractor's control, which interfere with operation of the Owner or separate contractor.

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- E. Obtain and pay for the use of additional storage or work areas needed for operations.

1.06 OWNER OCCUPANCY

- A. The City and the public will maintain 24 hour access to all areas of the property outside of the court fencing at all times.
- B. Contractor shall not utilize or prevent access to existing utility easement areas during the entire construction period.

1.07 LINES, LEVELS AND LAYOUT OF WORK

- A. The Contractor shall establish and guarantee all lines, levels, etc. called for on the drawings, including the lines, levels, etc. of all Subcontractors.

1.08 DESCRIPTION OF SITE

- A. There are four sites are located across the City of Evanston. The Northern side of James Park bound to the North by Oakton Street. The Northeast corner of Ackerman Park bound by Central Street and Elm Ave. The Southwest corner of Leahy Park abutting the Alley servicing Colfax Street. The Southwest corner of Mason Park bound by Davis Street and the former Mayfair-Cutoff.

1.09 WORK HOURS

- A. Work hours are 7:00 am to 7:00 pm, Monday through Friday and 8:00 am to 5:00 pm on Saturday. No work is allowed on Sundays. Access to the site will not be allowed outside of normal work hours.

1.10 CONTRACTOR'S DUTIES

- A. Except as specifically noted, provide and pay for:
 - 1. Labor, materials and equipment.
 - 2. Tools, construction equipment and machinery
 - 3. Water, heat, and utilities required for construction or the Contractor's operations.
 - 4. Other facilities and services necessary for proper execution and completion of work, including traffic control and temporary work.
- B. Promptly submit written notice to the Architect of any observed variance of the Contract Documents from legal requirements. It is not the Contractor's responsibility to make certain that the Drawings and Specifications comply with codes and regulations.
 - 1. Appropriate modifications to the Contract Documents will adjust the necessary changes.
 - 2. The Contractor shall assume responsibility for work known to be contrary to such requirements and performed without such notice.
- C. Enforce strict discipline and good order among employees. Do not employ on work:
 - 1. Unfit persons
 - 2. Persons not skilled in assigned task
- D. Existing Conditions

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1. The Contractor shall be responsible for obtaining and verifying all dimensions. Any dimension given in the Drawings referring to existing construction were taken from the original construction documents and are provided for information only.
2. Where conditions are uncovered that are not anticipated by the Drawings and Specifications, the Contractor shall notify the Engineer and Owner's Representative immediately, before any modification or other work is initiated.

**PART 2 – PRODUCTS
(NOT APPLICABLE)**

**PART 3 – EXECUTION
(NOT APPLICABLE)**

END OF SECTION 01 01 00

SECTION 01 02 70

APPLICATIONS FOR PAYMENT

PART 1 – GENERAL

1.01 SUMMARY

- A. Contractor shall comply with procedures described in this Section when applying for progress payments and final payment under the Contract.

1.02 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.
- B. Payments upon Substantial Completion and Completion of the Work are described in Section 01 70 00 – PROJECT CLOSEOUT.
- C. The Owner's approval of applications for progress payment and final payment may be contingent upon the Owner's approval of status of Project Record Documents as described in Section 01 72 00 – PROJECT RECORD DOCUMENTS of these Specifications.

1.03 QUALITY ASSURANCE

- A. Prior to start of construction, secure the Owner's approval of the schedule of values required to be submitted as specified below.
- B. During progress of the Work, modify the schedule of values as approved by the Owner to reflect changes in the Contract Sum due to Change Orders or other modifications of the Contract.
- C. All requests for payment shall be based on the approved Schedule of Values for the project.
- D. All modifications to the contract shall be based on the approved Schedule of Values for the project.

1.04 SCHEDULE OF VALUES

- A. Coordinate preparation of the Schedule of Values with preparation of the Contractor's Construction Schedule.
 - 1. Correlate line items in the Schedule of Values with other required administrative schedules and forms, including:
 - a. Contractor's construction schedule.
 - b. Application for Payment forms.
 - c. List of subcontractors.
 - d. Schedule of alternates.
 - e. List of products.

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- f. List of principal suppliers and fabricators.
 - g. Schedule of submittals.
 - 2. Submit the Schedule of Values to the Owner at the earliest feasible date, but in no case later than seven (7) days before the date scheduled for submittal of the initial Application for Payment.
- B. If applicable, the format and content of the Schedule of Values shall match the project's unit pricing. The Contractor is strongly encouraged to utilize spreadsheet software for preparation of all pay applications.
 - 1. Include the following Project identification on the Schedule of Values:
 - a. Project name and location.
 - b. Purchase order number.
 - c. Contractor's name and address.
 - d. Date of submittal.
 - 2. Arrange the Schedule of Values in tabular form with separate columns to indicate the following for each item listed:
 - a. Itemized description.
 - b. Related Specification Section
 - c. Name of subcontractor.
 - d. Name of manufacturer or fabricator.
 - e. Name of supplier.
 - f. Change Orders (numbers) that have affected value.
 - g. Dollar value.
 - h. Percentage of Contract Sum to the nearest one-hundredth percent, adjusted to total 100 percent.
 - 3. For each part of the Work where an Application for Payment may include materials or equipment, purchased or fabricated and stored, but not yet installed, provide separate line items on the Schedule of Values for initial cost of the materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
 - 4. Show line items for indirect costs and margins on actual costs, only to the extent that such items will be listed individually in Applications for Payment. Each item in the Schedule of Values and Applications for Payment shall be complete including its total cost and proportionate share of general overhead and profit margin.
 - 5. Update and resubmit the Schedule of Values when Change Orders result in a change in the Contract Sum.

1.05 PROCEDURES

- A. Informal submittal
 - 1. Make informal submittal of request for payment by filling in, with erasable pencil, pertinent portions of AIA Document G702, "Application and Certification for Payment," plus continuation sheet or sheets of AIA Document G703.

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2. Make this preliminary submittal to the Architect and Owner in accordance with the Owner's payment schedule.
 3. Revise the informal submittal of the request for payment as directed by the Owner, initialing all copies.
- B. Formal submittal
1. Make formal submittal of request for payment by filling in the agreed data, by typewriter or neat lettering in ink, on AIA Document G702, "Application and Certification for Payment," plus continuation sheet(s) of AIA Document G703.
 2. Sign and notarize the Application and Certificate for Payment.
 3. Reference Purchase Order number on Application for Payment
 4. Secure and file with submittal progress waivers for all materials incorporated into and labor and equipment employed on the work before payment requests are processed.
 - a. Initial payment will be processed without progress waivers. Subsequent requests will require progress waivers for previous payment.
 5. Submit the request for payment via email to the owner's project manager with a copy to the project manager from the Architect if applicable.
 6. The Architect and Owner will compare the formal submittal with the approved informal submittal and, when approved, will sign the Application and Certificate for Payment, will make and distribute required copies. The Owner will disburse directly to the Contractor the amount certified less 10% retainage.
 7. Approved formal submittals must be received by the Owner in accordance with the Owner's payment schedule.
 8. Certified payroll records must be submitted along with the formal submittal as described in the General Conditions.
 9. Certified payroll records must be concurrently submitted to the Illinois Department of Labor using the Certified Transcript of Payroll Portal.

**PART 2 – PRODUCTS
(NOT APPLICABLE)**

**PART 3 – EXECUTION
(NOT APPLICABLE)**

END OF SECTION 01 02 70

**SECTION 01 04 50
CUTTING AND PATCHING**

PART 1 GENERAL

1.1 SUMMARY

- A. This Section establishes general requirements pertaining to cutting (including excavation), fitting and patching of the Work required.

1.2 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.
- B. Execute cutting (including excavation), filling or patching of work, required to:
 - 1. Make several parts fit properly.
 - 2. Uncover work to provide for installation of ill-timed work.
 - 3. Remove and replace defective work.
 - 4. Remove and replace work not conforming to the Contract requirements.
 - 5. Remove samples of installed work as specified for testing.
 - 6. Install specified work in existing construction.
- C. In addition to Contract requirements, upon written instruction of the Owner:
 - 1. Uncover work to provide for observation of covered work.
 - 2. Remove samples of installed materials for testing.
 - 3. Remove work to provide for alteration of existing work.
- D. Do not cut or alter work of another contractor without written consent of the Owner.

1.3 SUBMITTALS

- A. Prior to cutting which affects structural safety of Project, or work of another contractor, submit written notice to the Owner requesting consent to proceed with cutting.
- B. Include the following:
 - 1. Project identification.
 - 2. Description of affected work.
 - 3. Necessity for cutting.
 - 4. Effect on other work and on structural integrity of Project.
 - 5. Description of proposed work. Designate:
 - a. Scope of cutting and patching.
 - b. Contractor and trades to execute the work.
 - c. Products proposed to be used.
 - d. Extent of refinishing.
 - 6. Alternatives to cutting and patching.
 - 7. Designation of party responsible for cost of cutting and patching.

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- C. Prior to cutting and patching done by instruction of Owner, submit cost estimate.
- D. Should conditions of work or schedule indicate change of materials or methods, submit recommendations to the Owner, including:
 - 1. Conditions indicating change.
 - 2. Recommendation for alternative materials or methods.
 - 3. Submittals as required for substitutions.
- E. Submit written notice to the Owner, designating time the work will be uncovered to provide for observation.

1.4 PAYMENT FOR COSTS

- A. Costs caused by ill-timed or defective work, or work not conforming to Contract Documents: Party responsible for ill-timed, rejected or non-conforming work.
- B. Work done on instruction of the Owner (by Change Order), other than defective or non-conforming work shall be paid for by the Owner.

1.5 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

PART 2 PRODUCTS

2.1 MATERIALS

- A. For replacement of work removed, comply with Specifications for type of work to be performed.

PART 3 EXECUTION

3.1 INSPECTION

- A. Inspect existing conditions of work, including elements subject to movement or damage during:
 - 1. Cutting and patching.
 - 2. Excavating and backfilling
- B. After uncovering work, inspect conditions affecting installation of new products.

3.2 PREPARATION

- A. Prior to cutting:
 - 1. Provide shoring, bracing and support as required to maintain structural integrity of project.
 - 2. Provide protection for other portions of the project.
 - 3. Provide protection from the elements.

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3.3 PERFORMANCE

- A. Execute fitting and adjustment or provide finished installation to comply with specified tolerances and finishes.
- B. Execute cutting and demolition by methods which will prevent damage to other work, and will provide proper surfaces to receive installation of repairs and new work.
- C. Execute excavating and backfilling by methods which will prevent damage to other work, and will prevent settlement.
- D. Restore work which has been cut or removed; install new products to provide complete work in accordance with contract requirements.
- E. Refinish entire surfaces as necessary to provide an even finish.
 - 1. Continuous surfaces: to nearest intersection (s).
 - 2. Assembly: entire refinishing.

END OF SECTION

SECTION 01 05 10

GRADES, LINES AND LEVELS

PART 1 – GENERAL

1.01 SUMMARY

- A. Provide such field engineering services as are required for proper completion of the Work including, but not necessarily limited to:
 - 1. Establishing and maintaining grades, lines and levels;
 - 2. Structural design of shores, forms and similar items provided by the Contractor as part of the means and methods of establishing and maintaining grades lines and levels.

1.02 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 OWNER WILL FURNISH

- A. A topographic map of the site as part of the Construction Documents, providing the following locations, dimensions and data:
 - 1. Grades, contours and lines of pavements and ground conditions.
 - 2. Above ground utility locations.
 - 3. Trees and vegetation.

1.04 SUBMITTALS

- A. Submit a record of Work performed and record survey data as required under provisions of Section 01 30 00 – SUBMITTALS and Section 01 72 00 – PROJECT RECORD DOCUMENTS.
- B. Comply with pertinent provisions of Section 01 30 00 – SUBMITTALS.
- C. Upon written request of the Owner, submit:
 - 1. Data demonstrating qualifications of persons proposed to be engaged for field engineering services.
 - 2. Documentation verifying accuracy of field engineering work.
 - 3. Certification, signed by the contractor's retained field engineer, certifying that elevations and locations of improvements are in conformance or nonconformance with requirements of the Contract Documents.

1.05 CONSTRUCTION SURVEYS

- A. The Contractor shall employ a land surveyor, registered in the state of Illinois and acceptable to the Owner for verification of existing conditions and for layout of its own

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work including all lines, elevations and measurements of all site improvements, utilities and other work executed by it under the Contract.

- B. The Contractor shall immediately upon entering the site for purpose of beginning work locate general reference points and take such action as is necessary to prevent their destruction. The Contractor must exercise proper precaution to verify figures on the drawings before laying out work and will be held responsible for any error resulting from its failure to exercise such precaution.
- C. The Contractor shall make provision to preserve property line stakes, benchmarks or datum points. If any are lost, displaced or disturbed through neglect of the Contractor, its agents, or employees, the Contractor shall pay the cost of restoration.

**PART 2 – PRODUCTS
(NOT APPLICABLE)**

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify layout information shown on the Drawings, in relation to the plans before proceeding to layout the Work. Locate and protect existing benchmarks and control points. Preserve permanent reference points during construction.
- B. Do not change or relocate benchmarks or control points without prior written approval. Promptly report lost or destroyed reference points, or requirements to relocate reference points because of necessary changes in grades or locations.
 - 1. Promptly replace lost or destroyed project control points. Base replacements on original survey control points.
 - 2. Establish and maintain a minimum of two permanent benchmarks on the site or reference to data established by survey control points.
 - 3. Record benchmark locations with horizontal and vertical data on Project Record Documents.
- C. The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning site-work, investigate and verify the existence and location of underground utilities and other construction.
- D. Prior to construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, gas and water service piping.

3.02 PERFORMANCE

- A. Working from lines and levels established by the plans, establish benchmarks and markers to set lines and levels as needed to properly locate each element of the Project. Calculate and measure required dimensions within indicated or recognized tolerances. Do not scale Drawings to determine dimensions.
- B. Advise entities engaged in construction activities, of marked lines and levels provided for their use.

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- C. As construction proceeds, check every major element for line, level and plumb.
- D. Maintain a surveyor's log of control and other survey work. Make this log available at the job site for reference.
- E. Record deviations from required lines and levels and advise the Owner when deviations that exceed indicated or recognized tolerances are detected. On Project Record Drawings, record deviations that are accepted and not corrected.
- F. On completion of any work requiring field engineering services, prepare a certified survey showing dimensions, locations, angles and elevations of construction and site-work. Deliver this certified survey to the Owner in hardcopy and electronic format (AutoCAD).
- G. Locate and layout site improvements, including pavements, stakes for grading, fill and topsoil placement, utility slopes and invert elevations by instrumentation and similar appropriate means.
- H. Furnish information necessary to adjust, move or relocate existing structures, utility poles, lines, services or other appurtenances located in or affected by construction. Coordinate with local authorities having jurisdiction.

END OF SECTION 01 05 10

SECTION 01 06 00

REGULATORY REQUIREMENTS

PART 1 – GENERAL

1.01 SUMMARY

- A. Contractors shall comply with all laws, rules and regulations governing the Work.
 - 1. When Contractor observes that Contract Documents are in variance with specified codes, notify the Owner in writing immediately. The Owner will issue all changes in accord with the 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, the 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.

1.02 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 DEFINITIONS AND ABBREVIATIONS

- A. Definitions
 - 1. "Codes" means rules, regulations or statutory requirements of government agencies.
 - 2. "Standards" means requirements set by authorities, custom or general consent and establish accepted criteria.
- B. Abbreviations
 - 1. ADA Americans with Disabilities Act
 - 2. AGCI Associated General Contractors in Illinois
 - 3. ANSI American National Standards Institute
 - 4. ASHRAE American Society of Heating, Refrigeration and Air Conditioning Engineers
 - 5. ASTM American Society of Testing and Materials
 - 7. COE City of Evanston
 - 8. CPSC Consumer Product Safety Commission (Federal)

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9.	FM	Factory Mutual Engineering Corp.
9.	IBC	International Building Code
10.	IDOL	Illinois Department of Labor
11.	IDOT	Illinois Department of Transportation
12.	IDPH	Illinois Department of Public Health
13.	IEPA	Illinois Environmental Protection Agency
14.	IECC	International Energy Conservation Code
14.	ISPE	Illinois Society of Professional Engineers
15.	NFPA	National Fire Protection Association
16.	SFM	Office of State Fire Marshall
17.	UL	Underwriters Laboratories, Inc.

1.04 QUALITY ASSURANCE

A. Contractor shall:

1. Ensure that copies of specified codes and standards are readily available to Contractor's personnel. Copies are available at Contractor's expense from source or publisher.
2. Ensure that Contractor's personnel are familiar with workmanship and installation requirements of specified codes and standards.

1.05 REFERENCE SPECIFICATIONS

A. The Specifications referred to herein shall be interpreted to mean the following and shall include all addenda, changes to, etc. Reference to Engineer shall mean Owner.

1. "Standard Specifications" – The Illinois Department of Transportation's (IDOT's) "Standard Specifications for Road and Bridge Construction", latest edition.
2. "Supplemental Specifications" – IDOT's "Supplemental Specifications and Recurring Special Provisions", latest edition.
3. "Traffic Specifications" – IDOT's "Standard Specifications for Traffic Control Items", latest edition.
4. "Standard Sewer Specifications" – The "Standard Specifications for Water and Sewer Main Construction in Illinois", latest edition.

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1.06 REGULATORY REQUIREMENTS

A. Source and requirements:

1. EBA: "Environmental Barriers Act" Illinois Accessibility Code
2. ADA: Americans with Disabilities Act
3. ISPC: Illinois State Plumbing Code, current edition
4. IEPA: (current editions at date of bidding documents)
 - a. Air Pollution Standards
 - b. Noise Pollution Standards
 - c. Water Pollution Standards
 - d. Public Water Supplies
 - e. Solid Waste Standards
 - f. Illinois Recommended Standards for Sewage Work
5. Illinois Purchasing Act, as amended (Illinois Compiled Statutes, 30 ILCS 505/1 et seq)
6. OSFM:
 - a. Gasoline and Volatile Oils (Illinois Compiled Statutes, 430 ILCS 15/0.01 et seq)
 - b. Liquefied Petroleum Gases (Illinois Compiled Statutes, 430 ILCS 5/0.01 et seq)
 - c. Liquefied Petroleum Gas Containers (Illinois Compiled Statutes, 430 ILCS 10/0.01 et seq)
 - d. Boiler and Pressure Vessel Safety Act and Rules and Regulations (Illinois Compiled Statutes, 430 ILCS 75/1 et seq)
 - e. Illinois Rules and Regulations for Fire Prevention and Safety, as amended 24 December 1973.
7. CODES:
 - a. City of Evanston "City Ordinances" and "Building Code", current editions.
 - b. Work not covered by above codes: Use NFPA National Fire Codes, current edition.

- B.** The Owner may reference other codes or standards throughout the Project Manual when deemed appropriate for proper compliance with regulatory requirements.

**PART 2 – PRODUCTS
(NOT APPLICABLE)**

**PART 3 – EXECUTION
(NOT APPLICABLE)**

END OF SECTION 01 06 00

SECTION 01 09 50

REFERENCE STANDARDS AND DEFINITIONS

PART 1 – GENERAL

1.01 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.02 DEFINITIONS

- A. General: basic contract definitions are included in the General Conditions.
- B. Indicated: the term “indicated” refers to graphic representations, notes or schedules on the Drawings, other paragraphs or schedules in the Specifications, and similar requirements in the Contract Documents. Where terms such as “shown,” “noted,” “scheduled” and “specified” are used, it is to help the reader locate the reference; no limitation on location is intended.
- C. Directed: terms such as “directed,” “requested,” “authorized,” “selected,” “approved,” “required” and “permitted” mean “directed by the Owner,” “requested by the Owner” and similar phrases.
- D. Approve: the term “approved,” where used in conjunction with the Owner action on the Contractor’s submittals, applications and requests, is limited to the Owner’s duties and responsibilities as stated in the General Conditions.
- E. Regulation: the term “regulations” includes laws, ordinances, statutes and lawful orders issued by authorities having jurisdiction, as well as rules, conventions and agreements within the construction industry that control performance of the Work.
- F. Furnish: the term “furnish” is used to mean “supply and deliver to the Project site, ready for unloading, unpacking, assembly, installation and similar operations.”
- G. Install: the term “install” is used to describe operations at project site including the actual “unloading, unpacking, assembly, installation, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations.”
- H. Provide: the term “provide” means “to furnish and install, complete and ready for the intended use.
- I. Installer: an “installer” is the Contractor or an entity engaged by the Contractor, either as an employee, subcontractor or sub-subcontractor, for performance of a particular construction activity, including installation, erection, application and similar operations. Installers are required to be experienced in the operations they are engaged to perform.

1.03 INDUSTRY STANDARDS

- A. Applicability of Standards: except where the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect

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as if bound or copied directly into the Contract Documents. Such standards are made a part of the Contract Documents by reference.

- B. Publication Dates: where the date of issue of a referenced standard is not specified, comply with the standard in effect as of date of Contract Documents.
- C. Conflicting Requirements: where compliance with two or more standards is specified, and the standards establish different or conflicting requirements for minimum quantities or quality levels, refer requirements that are different, but apparently equal, and uncertainties to the Owner for a decision before proceeding.
 - 1. Minimum Quality or Quantity Levels: the quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. In complying with these requirements, indicated numeric values are minimum or maximum, as appropriate for the context of the requirements. Refer uncertainties to the Owner for a decision before proceeding.
- D. 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 Owner reserves the right to require the Contractor to submit additional copies as necessary for enforcement of requirements.
- E. 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. The following acronyms or abbreviations as referenced in Contract Documents are defined to mean the associated names. Names and addresses are subject to change and are believed to be but are not assured to be accurate and up to date as of date of Contract Documents.

AA	Aluminum Assoc. 900 19 th St, NW, Suite 300 Washington, DC 20006 (202) 862-5100	AAMA	American Architectural Manufacturer's Assoc. 1540 E. Dundee Rd, Suite 310 Palatine, IL 60067 (708) 202-1350	AAN	American Assoc. of Nurserymen 1250 Eye St, NW, Suite 500 Washington, DC 20005 (202) 789-2900
AASH TO	American Assoc. of State Highway and Transportation	ACI	American Concrete Institute PO Box 19150	ACIL	American Council of Independent Laboratories

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	Officials 444 N. Capitol St, Suite 225 Washington, DC 20001 (202) 624-5800		Detroit, MI 48219- 0150 (313) 532-2600		1725 K St, NW Washington, DC 20006 (202) 887-5872
ACPA	American Concrete Pipe Assoc. 8320 Old Courthouse Rd. Vienna, VA 22180 (703) 821-1990	AGA	American Gas Assoc. 1515 Wilson Blvd. Arlington, VA 22209 (703) 841-8400	AHA	American Hardboard Assoc. 520 N. Hicks Rd. Palatine, IL 60067- 3609 (708) 934-8800
AI	Asphalt Institute Research Park Drive PO Box 14052 Lexington, KY 40512- 4052 (606) 288-4960	AIA	American Institute of Architects 1735 New York Ave, NW Washington, DC 20006 (202) 626-7300	A.I.A.	American Insurance Assoc. 1130 Connecticut Ave, NW Washington, DC 20036 (202) 828-7100
AISC	American Institute of Steel Construction 1 E. Wacker Dr, Suite 3100 Chicago, Il 60601- 2001 (312) 670-2400	AISI	American Iron and Steel Institute 1101 17 th St. NW, Suite 1300 Washington, DC 20005-2701 (202) 452-7100	AITC	American Institute of Timber Construction 11818 SE Mill Plain Blvd, Ste.415 Vancouver, WA 98684-5092 (206) 254-9132
ALI	Associated Laboratories 641 S. Vermont St. Palatine, IL 60067 (708) 358-7400	ALSC	American Lumber Standards Committee PO Box 210 Germantown, MD 20874 (301) 972-1700	ANSI	American National Standards Institute 11 W. 42 nd Street New York, NY 10036 (212) 354-3300
AOSA	Assoc. of Official Seed Analysts C/o Jim Lair Illinois Dept. of Agriculture Seed Lab Box 19281 Springfield, IL 62794 (217) 782-7655	APA	American Plywood Assoc. PO Box 11700 Tacoma, WA 98411 (206) 565-6600	API	American Petroleum Institute 1220 L St, NW Washington, DC 20005 (202) 682-8000
ASC	Adhesive and Sealant Council 1627 K Street, NW, Suite 1000 Washington, DC 20006 (202) 452-1500	ASHR AE	American Society of Heating, Refrigerating and Air-conditioning Engineers, Inc. 1791 Tullie Circle, NE Atlanta GA 30329- 2305	ASME	American Society of Mechanical Engineers 345 East 47 th Street New York, NY 10017
ASPE	American Society of Plumbing Engineers 3617 Thousand Oaks Blvd, Suite 210 Westlake, CA 91362	ASSE	American Society of Sanitary Engineers PO Box 40362 Bay Village, OH	ASTM	American Society for Testing and Materials 1916 Race St Philadelphia, PA 19103

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	(805) 495-7120		44140 (216) 835-3040		(215) 299-5400
AWI	Architectural Woodwork Institute 2310 S. Walter Reed Dr. Arlington, VA 22206 (703) 671-9100	AWPA	American Wood Preservers Assoc. PO Box 286 Woodstock, MD 21163 (410) 465-3169	AWPB	American Wood Preservers Bureau PO Box 5283 Springfield, VA 22150 (703) 339-6660
AWS	American Welding Society PO Box 351040 550 LeJeune Road, NW Miami, FL 33135 (305) 443-9353	AWW A	American Water Works Assoc. 6666 W Quincy Ave Denver, CO 80235 (303) 794-7711	BANC	Brick Assoc. of North Carolina PO Box 13290 Greensboro, NC 27415 (919) 273-5566
BHMA	Builders Hardware Manufacturers Assoc. 355 Lexington Ave, 17 th Floor New York, NY 10017 (212) 661-4261	BIA	Brick Institute of America 11490 Commerce Park Dr. Suite 300 Reston, VA 22091 (703) 620-0010	CISPI	Cast Iron Soil Pipe Institute 5959 Shallowford Rd, Ste 419 Chattanooga, TN 37421 (615) 892-0137
CRSI	Concrete Reinforcing Steel Institute 933 Plumb Grove Rd. Schaumburg, IL 60195 (708) 517-1200	EJMA	Expansion Joint Manufacturers Assoc. 25 N. Broadway Tarrytown, NY 10591 (914) 332-0040	ETL	ETL Testing Laboratories Inc. PO Box 2040 Route 11, Industrial Park Cortland, NY 13045 (607) 753-6711
HMA	Hardwood Manufacturers Assoc. 2831 Airways Blvd., Ste 205, Bldg. B Memphis, TN 38132 (901) 346-2222	HPMA	Hardwood Plywood Manufacturers Assoc. 1825 Michael Farraday Dr PO Box 2789 Reston, VA 22090- 2789 (703) 435-2900	ICEA	Insulated Cable Engineers Assoc. Inc. PO Box 440 South Yarmouth, MA 02664 (617) 394-4424
IEEE	Institute of Electrical and Electronic Engineers 345 E. 47 th Street New York, NY 10017 (212) 705-7900	IESN A	Illuminating Engineering Society of North America 345 E 47 th Street New York, NY 10017 (212) 705-7926	ILI	Indiana Limestone Institute of America Stone City Bank Bldg, Ste 400 Bedford, IN 47421 (812) 275-4426
IMSA	International Municipal Signal Assoc. PO Box 539 1115 N. Main Street Newark, NY 14513 (315) 331-2182	IRI	Industrial Risk Insurers 85 Woodland St Hartford, CT 06102 (203) 520-7300	LPI	Lightning Protection Institute PO Box 1029 Woodstock, IL 60098 (815) 337-0277

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MBMA	Metal Building Manufacturers Assoc. 1230 Keith Building Cleveland, OH 44115-2180	MCAA	Mechanical Contractors Assoc. of America 5410 Grosvenor Lane, Ste 120 Bethesda, MD 20814 (301) 897-0770	NAAM M	National Assoc. of Architectural Metal Manufacturers 600 S. Federal St, Ste 400 Chicago, IL 60605 (312) 922-6222
NAPA	National Asphalt Pavement Assoc. Calvert Building, Suite 620 6811 Kenilworth Ave. Riverdale, MD 20737 (301) 779-4880	NAPF	National Assoc. of Plastic Fabricators (Now DLPA)	NBGQ A	National Building Granite Quarries Assoc. PO Box 482 Barre, VT 05641 (802) 476-3115
NBHA	National Builders hardware Assoc. (Now DHI)	NCMA	National Concrete Masonry Assoc. 2302 Horse Pen Rd PO Box 781 Herndon, VA 22070-3406 (703) 435-4900	NEC	National Electric Code (Now NfiPA)
NECA	National Electrical Contractors Assoc. 7315 Wisconsin Ave Bethesda, MD 20814 (301) 657-3110	NEMA	National Electrical Manufacturers Assoc. 2101 L St, NW, Ste 300 Washington, DC 20037 (202) 457-8400	NFiPA	National Fire Protection Assoc. 1 Batterymarch Park Quincy, MA 02269 (617) 770-3000
NFoP A	National Forest Products Assoc. 1250 Connecticut Ave, NW, Suite 200 Washington DC 20036 (202) 463-2700	NHLA	National Hardwood Lumber Assoc. PO Box 34518 Memphis, TN 38184 (901) 377-1818	NLGA	National Lumber Grades Authority 1055 W Hastings St. Ste 260 Vancouver, British Columbia Canada V6E 2H1 (604) 687-2171
NPA	National Particleboard Assoc. 18928 Premiere Court Gaithersburg, MD 20879-1569 (301) 670-0604	NPCA	National Paint and Coatings Assoc. 1500 Rhode Island Ave, NW Washington, DC 20005 (202) 462-6272	NSF	National Sanitation Foundation PO Box 1468 3475 Plymouth Rd Ann Arbor, MI 48106 (313) 769-8010
NWM A	National Woodwork Manufacturers Assoc. (Now NWWDA)	PCA	Portland Cement Association 5420 Old Orchard Road Skokie, IL 60077-4321 (847) 966-6200	PCI	Prestressed Concrete Institute 175 W Jackson Blvd Chicago, IL 60604-9773 (312) 786-0300
PDI	Plumbing and Drainage Institute C/o Saul Baker	RIS	Redwood Inspection Service 405 Enfrente Dr,	RMA	Rubber Manufacturers Assoc. 1400 K St, NW

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	1106 W. 77 th Street, South Dr. Indianapolis, IN 4626 (317) 251-6970		Suite 300 Novato, CA 94949 (415) 382-0662		Washington, DC 20005 (202) 682-4800
SHLM A	Southern Hardwood Lumber Manufacturers Assoc. (Now HMA)	SJI	Steel Joist Institute Suite A 1205 48 th Ave North Myrtle Beach, SC 29577	SPIB	Southern Pine Inspection Bureau 4709 Scenic Highway Pensacola, FL 32504 (904) 434-2611
SSPC	Steel Structures Painting Council 4400 Fifth Ave. Pittsburgh, PA 15213 (412) 268-3327	SSPM A	Sump and Sewage Pump Manufacturers Assoc. 560 W Washington St, Ste 301 Chicago IL, 60606 (312) 332-4146	TPI	Truss Plate Institute 583 D'Onofrio Drive Suite 200 Madison, WI 53719
UL	Underwriters Laboratories 333 Pfingsten Rd. Northbrook, IL 60062 (847) 272-8800	WCLI B	West Coast Lumber Inspection Bureau PO Box 23145 Portland, OR 97223 (503) 639-0651	WIC	Woodwork Institute of California PO Box 11428 Fresno, CA 93773 (209) 233-9035
WRI	Wire Reinforcement Institute 1101 Connecticut Ave, NW Washington, DC 20036-4303 (703) 790-9790	WWP A	Western Wood Products Assoc. 522 SW 5 th Ave, Yeon Bldg. Portland, OR 97204-2122 (503) 224-3930	W.W.P. A.	Woven Wire Products Assoc. 2515 N. Nordica Ave. Chicago, IL 60635 (312) 637-1359

- F. Federal Government Agencies: names and titles of federal government standard or specification producing agencies are often abbreviated. The following acronyms or abbreviations referenced in the Contract Documents indicate names of standard or specification producing agencies of the federal government. Names and addresses are subject to change; they are believed to be but are not assured to be accurate and up to date as of the date of the Contract Documents.

CE	Corps of Engineers (US Dept of the Army) Chief of Engineers – Referral Washington, DC 20314 (202) 272-0660	CFR	Code of Federal Regulations Available from the Government Printing Office N. Capitol St between G and H St, NW Washington, DC 20402 (202) 783-3238 (Material is usually first published in the Federal Register)	CPSC	Consumer Product Safety Commission 5401 Westbard Ave, Room 700 Washington, DC 20816 (800) 638-2772

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CS	Commercial Standard (US Dept of Commerce) Government Printing Office Washington, DC 20402 (202) 377-2000	DOC	Department of Commerce 14 th St and Constitution Ave, NW Washington, DC 20230 (202) 377-2000	DOT	Department of Transportation 400 7 th St, SW Washington, DC 20590 (202) 366-4000
EPA	Environmental Protection Agency 401 M St, SW Washington, DC 20460 (202) 382-2090	FAA	Federal Aviation Administration (US Dept of Transportation) 800 Independence Ave, SW Washington, DC 20590 (202) 366-4000	FCC	Federal Communications Commission 1919 M St, NW Washington, DC 20554 (202) 632-7000
FHA	Federal Housing Administration (US Dept of Housing and Urban Development) Director Manufactured Housing and Construction Standards Division 451 7 th St, SW, Room 9158 Washington, DC 20201 (202) 755-5210	FS	Federal Specification (from GSA) Supt. Of Documents, Government Printing Office 7 th and D St, SW Washington, DC 20234 (202) 472-2205 or 472-2140	GSA	General Services Administration F St and 18 th St, NW Washington, DC 20405 (202) 472-1082
MIL	Military Standardization Documents (US Dept of Defense) Naval Publications and Forms Center 5801 Tabor Ave Philadelphia, PA 19120	NIST	National Institute of Standards and Technology (US Dept of Commerce) Gaithersburg, MD 20899 (301) 975-2000	OSHA	Occupational Safety and Health Administration (US Dept of Labor) Government Printing Office Washington, DC 20402 (202) 523-6091
PS	Product Standard of NBS National Institute of Standards and (DOC) Technology Standards Management Program A 625 Administration Gaithersburg, MD 20899 (202) 783-3238	USDA	US Dept of Agriculture Independence Ave btwn. 12 th and 14 th St, SW Washington, DC 20250 (202) 447-8732	USPS	US Postal Service 475 L'Enfant Plaza, SW Washington, DC 20260 (202) 268-2000

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1.04 GOVERNING REGULATIONS/AUTHORITIES

- A. The Owner has contacted authorities having jurisdiction where necessary to obtain information necessary for preparation of Contract Documents; that information may or may not be of significance to the Contractor. Contact authorities having jurisdiction directly for information and decisions having a bearing on the Work.
- B. Copies of Regulations: Obtain copies of the applicable regulations and retain at the Project site, available for reference by parties who have a reasonable need for such reference.

1.05 SUBMITTALS

- A. Permits, Licenses and Certificates: for the Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional, settlements, notices, receipts for fee payments, judgements and similar documents, correspondence, and records established in conjunction with compliance with standards and regulations bearing upon performance of the Work.

**PART 2 – PRODUCTS
(NOT APPLICABLE)**

**PART 3 – EXECUTION
(NOT APPLICABLE)**

END OF SECTION 01 09 50

**SECTION 01 10 50
EXISTING UTILITY PROCEDURES**

PART 1 – GENERAL

1.01 SUMMARY

- A. Perform the work associated with existing utilities, including removal, relocation, interruption and protection, meeting requirements of this section.

1.02 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this section.

1.03 GENERAL

- A. Notification: before beginning any work, the Contractor shall notify all utility companies, public and private as applicable and any other party owning, operating or maintaining utility facilities on or in vicinity of project site in accordance with notification procedures of each utility company or any other party.
- B. Protection:
 - 1. Before beginning any work, the Contractor shall investigate and inform himself of locations and extent of all utilities on and in vicinity of project site which may be encountered in performing the work and shall take suitable care to protect and prevent damage and cessation of operation to such utilities from his operations.
 - 2. When performing adjacent to existing sewers, drains, water and gas lines; electric, telephone or telegraph conduit or cable; pole lines or poles, or other utility facilities, equipment or structures, which are to remain in operation, contractor shall maintain such utility facilities, equipment and structures in place and protect from damage and cessation of operation and shall cooperate with applicable utility company and any other party owning, operating or maintaining such utility facilities, equipment or structures.
 - 3. Methods of protection shall be subject to approval of utility company and any other party owning, operating or maintaining such utility, equipment or structure.
- C. Damages:
 - 1. Should existing utilities which are to remain in operation be damaged during construction operations, the Contractor shall immediately notify utility company, Owner and any other party owning, operating or maintaining such utility.
 - 2. The Contractor shall be responsible for and shall repair or replace at the Contractor's expense, as applicable, damages to any such utility facilities, equipment or structures caused by his acts, whether negligent or otherwise, or his omission to act, whether negligent or otherwise, and shall leave such utility facilities, equipment or structures in as good condition as existed prior to commencement of his operations as approved by utility company and any other party owning, operating or maintaining such utility. In addition, the Contractor shall be responsible for any damages or liability which the Owner may be held liable. Materials and methods of repair or replacement shall be subject to approval of utility company and other party owning, operating or maintaining such utility.

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3. However, any such utility equipment or structures damaged as a result of any act, or omission to act, of the Contractor, may, at option of applicable utility company and any other party owning, operating or maintaining such utility facilities, equipment or structures damaged, be repaired or replaced by such applicable utility company or other party. In such event cost of repairs or replacement shall be the responsibility of the Contractor at no addition to the Contract Sum.

1.04 PROCEDURES

A. Locations:

1. Request all utility companies and any other party owning, operating or maintaining utility facilities on or in vicinity of project site as applicable, to locate or stakeout locations, extent, alignment and elevation of such utility facilities.
2. Approximate locations and extent of known existing utility facilities, equipment and structures may be determined by examining documents of utility companies and any other party owning, operating or maintaining such utility facilities, and available information documents and Drawings for the work.
3. Should uncharted or incorrectly charted existing utility facilities, equipment and structures be encountered during performance of the Work, consult utility companies and other party owning, operating or maintaining such utility facilities for directions.
4. After such utilities have been uncovered and their actual locations and extent determined, the Owner will furnish additional Drawings, if relocation is required, subject to approval of utility companies and any other parties owning, operating or maintaining such utility facilities.
5. Submit record drawings showing locations and extent discrepancies of utilities those indicated in available reference documents or Drawings for the Work, regardless of cause of location or extent discrepancy, meeting, requirements of the general conditions.

B. Scheduling:

1. General: existing utilities shall not be disturbed until utility companies and any other party owning, operating or maintaining such utility facilities and users of such utilities have been notified in accordance with notification procedure of such utility companies or any other parties. Contractor shall conduct work so that utility may be removed, relocated or supported during construction operations and maintained in service until the work to be provided under Contract is completed.
2. Any existing utility should be relocated only as approved by utility companies and any other parties owning, operating or maintaining such utility facilities. Contractor shall cooperate with utility companies and any other parties in performance of this work.
3. Interruptions: when Contractor desires to take an existing utility service out of operation, notify Owner at least 72 hours in advance of such time and obtain written permission of utility company or other parties owning, operating or maintaining such utility facilities prior to interrupting service. Interruption of service shall be kept to an absolute minimum.
 - a. Utility company and any or other parties owning, operating or maintaining such utility facilities shall have right to require Contractor to perform work which requires such interruptions in stages and during non-standard working hours to reduce time of each interruption, at no addition to Contract Sum.

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- b. When necessary, provide acceptable temporary utility services during such interruptions, before taking utility service out of operation, at no addition to Contract Sum.

PART 2 – PRODUCTS

(NOT APPLICABLE)

PART 3 – EXECUTION

(NOT APPLICABLE)

END OF SECTION 011050

**SECTION 01 20 00
PROJECT MEETINGS**

PART 1 – GENERAL

1.01 SUMMARY

- A. This section specifies administrative and procedural requirements for project meetings including but not limited to:
 - 1. Pre-construction Conference
 - 2. Pre-installation Conferences
 - 3. Coordination Meetings
 - 4. Progress Meetings
- B. Construction schedules are specified in Section 01 30 00 – SUBMITTALS.

1.02 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 PRE-CONSTRUCTION CONFERENCE

- A. The Owner shall schedule a pre-construction conference and organizational meeting at the Project site or other convenient location no later than 15 days after execution of the Agreement and prior to commencement of construction activities. Conduct the meeting to review responsibilities and personnel assignments.
- B. Attendees: The Owner, the Contractor and its superintendent, major subcontractors, manufacturers, suppliers and other concerned parties shall each be represented at the conference by persons familiar with and authorized to conduct matters relating to the Work.
- C. 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. Construction activity policies and working hours
 - 17. MBE/WBE/EBE and LEP requirements

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18. Coordination with affected utilities and governing jurisdictions

1.04 PRE-INSTALLATION CONFERENCE

- A. Conduct a pre-installation conference at the site before each construction activity that requires coordination with other construction. The installer and representatives of manufacturers and fabricators involved in or affected by the installation, and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise the Owner of scheduled meeting dates.
- B. Review the progress of other construction activities and preparations for the particular activity under consideration at each pre-installation conference, including requirements for:
 - 1. Contract Documents
 - 2. Options
 - 3. Related Change Orders
 - 4. Purchases
 - 5. Deliveries
 - 6. Shop Drawings, Product Data and quality control samples
 - 7. Possible conflicts
 - 8. Compatibility problems
 - 9. Time schedules
 - 10. Weather limitations
 - 11. Manufacturer's recommendations
 - 12. Compatibility of materials
 - 13. Acceptability of substrates
 - 14. Temporary facilities
 - 15. Space and access limitations
 - 16. Governing regulations
 - 17. Safety
 - 18. Inspection and testing requirements
 - 19. Required performance results
 - 20. Recording requirements
 - 21. Protection
- C. Record significant discussions and agreements and disagreements of each conference, along with the approved schedule. Distribute the record of the meeting to everyone concerned, promptly, including the Owner.
- D. Do not proceed if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of Work and reconvene the conference at the earliest feasible date.

1.05 PROGRESS MEETINGS

- A. Conduct progress meetings at the Project site at regularly scheduled intervals. Notify the Owner of scheduled meeting dates. Coordinate dates of meetings with preparation of the payment requests.
- B. Attendees: in addition to the Owner, each subcontractor, supplier or other entity concerned with current progress or involved in planning, coordination or performance of future activities shall be represented at these meetings by persons familiar with the Project and authorized to conclude matters relating to progress.

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- C. Agenda: Review and correct or approve minutes of the previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to the current status of the Project.
- D. Contractor's Construction Schedule: review progress since the last meeting. Determine where each activity is in relation to the Contractor's Construction Schedule, whether on time, ahead or behind schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Period.
- E. Review the present and future needs of each entity present, including such items as:
 - 1. Interface requirements
 - 2. Time
 - 3. Sequences
 - 4. Deliveries
 - 5. Off-site fabrication problems
 - 6. Access
 - 7. Site utilization
 - 8. Temporary facilities and services
 - 9. Hours of Work
 - 10. Hazards and risks
 - 11. Housekeeping
 - 12. Quality and Work standards
 - 13. Change Orders
 - 14. Documentation of information for payment requests.
- F. Reporting: no later than three (3) days after each progress meeting date, distribute copies of minutes of the meeting to each party present and to other parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report.
- G. Schedule Updating: revise the construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue the revised schedule concurrently with the report of each meeting.

PART 2 – PRODUCTS

(NOT APPLICABLE)

PART 3 – EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 20 00

SECTION 01 21 00

ALLOWANCES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.
- B. Other provisions concerning Allowances also may be stated in other Sections of these Specifications.

1.2 SUMMARY

- A. The allowance is general and is to be used to provide adequate budget and bonding to cover items not able to be precisely determined by the Owner prior to bidding including any unforeseen conditions that are discovered. Allow within the proposed Total Base Bid Amount the amounts described in this Section.
- B. Allowance work shall be pre-approved prior to the start of and during the Construction with Proposals documenting the work to be performed, with clearly stated not-to-exceed costs and step by step method of procedures for the proposed work stated. Proposals must be submitted and accepted by the Owner prior to starting any allowance work. After discovering an unforeseen condition, the contractor shall submit a Proposal that includes a report summarizing the found condition. The Consultant and Owner will view the unforeseen condition to determine if the work will be authorized. Allowance work shall only be authorized by written Allowance Authorization. Under no circumstances shall the Contractor move forward with the work in question, nor shall the contractor expend allowance without an approved Allowance Authorization.

1.3 ALLOWANCE RESPONSIBILITIES

- A. Consultant Responsibilities:
 - 1. Consult with Contractor in consideration and selection of products, suppliers and installers.
 - 2. Select products or services in consultation with Owner.
 - 3. Review method of procedure and costs documented on Proposals submitted by the Contractor and transmit Owner's decision to Contractor. Owner approved Allowance Authorizations are required prior to proceeding with Allowance Work.
 - 4. Review, recommend and transmit Allowance Authorization to Owner for approval.
 - 5. Transmit Owner's decision to the Contractor.
- B. Contractor's Responsibilities:
 - 1. Assist Consultant in selection of products, suppliers and installers.
 - 2. Obtain proposals from suppliers and installers and offer recommendations and review of proposals submitted. Transmit to Consultant on Proposal forms, attaching all supporting documentation. Include any bond cost adjustments with the proposal. Include scheduling information and assessment of impact of other work.

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3. On notification of selection by Consultant, execute purchase agreement with designated supplier and installer.
4. Arrange for and process shop drawings, product data and samples. Arrange for delivery.
5. Promptly inspect products upon delivery for completeness, damage and defects. Submit claims for transportation damage.
6. Document thoroughly all costs related to the work.
7. Provide the Consultant with fully documented Proposals detailing all allowance work to be performed.

1.4 ALLOWANCE DOCUMENTATION

A. All work covered by Allowances must be thoroughly documented as follows:

1. Upon encountering any field conditions which is not as shown in Construction Documents, the Contractor shall immediately notify the Consultant and develop a written Proposal detailing any additional work required. Proposals shall include a report summarizing the found condition to the Consultant. Contractor work initiated without submitting a completed Proposal and obtaining the Owner's written approval by Allowance Authorization is performed entirely at Contractor's own risk and cost, regardless of any prior verbal approval.
2. The Consultant shall review the Proposal and provide the Owner with a written recommendation regarding the proposed work.
3. The Owner shall review the Contractor's Proposal and the Consultant's recommendation and, if appropriate, provide written approval via Allowance Authorization for use of the Allowance.

1.5 SCHEDULE OF ALLOWANCES

Allowance Number 1, Additional Work General: \$40,000.00

1.6 ALLOWANCE EXCLUSIONS

A. General

1. Additional costs related to improper scheduling, sequencing or coordination will not be covered within the Allowance, as determined solely by the Owner.

B. Existing Building Component Exclusions

1. All work required to protect existing building surfaces and components is included in the Base Bid and will not be covered within the Allowance.

PART 2 – PRODUCTS

(Not Used)

PART 3 – EXECUTION

(Not Used)

END OF SECTION 01 21 00

ALLOWANCES
SECTION 01 21 00-2

SECTION 01 27 00

UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for unit prices.

1.3 DEFINITIONS

- A. Unit price is a price per unit of measurement for materials or services provided in the Contract. The unit prices shall be added to or deducted from the Contract Sum by appropriate modification, if estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, bonding, overhead, and profit.
- B. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- C. List of Unit Prices: A list of unit prices is included at the end of this Section. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 LIST OF UNIT PRICES

Unit Price No. 1 – Soil Disposal Analysis

Description: This item shall include sampling, testing and analysis as required by law for landfill acceptance of special waste disposal as indicated in the Construction Documents.

Unit of Measurement: Each

Unit Price No. 2 – Special Non-Hazardous Waste Disposal – James Park

Description: This item shall include all costs associated with excavating, stockpiling, transportation, and disposal of special non-hazardous waste materials including chain of custody documentation from site to accepting landfill as indicated in the Construction Documents.

Unit of Measurement: Cubic Yard (in situ)

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Unit Price No. 3 – Fence Repair

Description: This item shall include all costs associated with new chainlink fabric and properly reattaching with black heavy duty ties at 12" on center.

Unit of Measurement: Linear Feet

Unit Price No. 4 – Asphalt Crack Repair

Description: This item shall include all costs associated with asphalt crack repair in accordance with Section 406 of the latest IDOT standard Specifications per the item Mixture For Cracks, Joints, And Flangeways. After cracks are filled, a fiberglass fabric repair system shall be installed in accordance with Section 444 of the latest IDOT Standard Specifications.

Unit of Measurement: Linear Feet

Unit Price No. 5 – Asphalt Base Repair

Description: This item shall include all costs associated with asphalt base repair to a depth matching the existing asphalt thickness – assumed at approximately 4 inches.

Unit of Measurement: Square Feet

END OF SECTION 01 27 00

SECTION 01 30 00

SUBMITTALS

PART 1 – GENERAL

1.01 SUMMARY

- A. This section specifies administrative and procedural requirements for submittals required for performance of the Work, including:
 - 1. Contractor's construction schedule
 - 2. Submittal schedule
 - 3. Daily construction reports
 - 4. Shop Drawings
 - 5. Product Data
 - 6. Samples
- B. Administrative Submittals: refer to other Division 0 and 1 sections and other Contract Documents for requirements for administrative submittals. Such submittals include but are not limited to:
 - 1. Permits
 - 2. Applications for payment
 - 3. Performance and payment bonds
 - 4. Insurance certificates
 - 5. List of subcontractors
- C. The Schedule of Values submittal is included in Section 01 02 70 – APPLICATION FOR PAYMENT.

1.02 RELATED WORK

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 SUBMITTAL PROCEDURES

- A. Coordination: coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals and related activities that require sequential activity.
 - 2. Coordinate transmittal of different types of submittals for related elements of the Work so processing will not be delayed by the need to review submittals concurrently for coordination.
 - a. The Owner reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

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3. Processing: allow sufficient review time so that installation will not be delayed as a result of the time required to process submittals, including time for re-submittals.
 - a. Allow two weeks for initial review. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The Owner will promptly advise the Contractor when a submittal being processed must be delayed for coordination.
 - b. If an intermediate submittal is necessary, process the same as the initial submittal.
 - c. Allow two weeks for re-processing each submittal.
 - d. No extension of Contract Time will be authorized because of failure to transmit submittals to the Owner sufficiently in advance of the Work to permit processing.
- B. Submittal Preparation: place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.
 1. Provide a space approximately 4" x 5" on the label or beside the title block on Shop Drawings to record the Contractor's review and approval markings and the action taken.
 2. Include the following information on the label for processing and recording action taken.
 - a. Project name
 - b. Date
 - c. Name and address of Owner
 - d. Name and address of Contractor
 - e. Name and address of subcontractor
 - f. Name and address of supplier
 - g. Name of manufacturer
 - h. Number and title of appropriate Specification Section
 - i. Drawing number and detail reference, as appropriate
- C. Submittal Transmittal: package each submittal appropriately for transmittal and handling. Transmit each submittal from Contractor to Owner using a transmittal form. Submittals received from sources other than the Contractor will be returned without action.
 1. On the transmittal record relevant information and requests for data. On the form, or separate sheet, record deviations from Contract Document requirements, including minor variations and limitations. Include Contractor's certification that information complies with Contract Document requirements.
 2. Transmittal Form: use AIA Document G 810.

1.04 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Bar-Chart Schedule: prepare a fully developed, horizontal bar-chart type Contractor's construction schedule. Submit within 30 days of the date established for "Commencement of the Work".
 1. Provide a separate time bar for each significant construction activity. Provide a continuous vertical line to identify the first working day of each week. Use the same breakdown of units of the Work as indicated in the "Schedule of Values".

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2. Within each time bar indicate estimated completion percentage in 10 percent increments. As Work progresses, place a contrasting mark in each bar to indicate Actual Completion.
 3. Prepare a schedule on a sheet, or series of sheets, of stable transparency, or other reproducible media, of sufficient width to show data for the entire construction period.
 4. Secure time commitments for performing critical elements of the Work from parties involved. Coordinate each element on the schedule with other construction activities; include minor elements involved in the sequence of the Work. Show each activity in proper sequence. Indicate graphically sequences necessary for completion of related portions of the Work.
 5. Coordinate the Contractor's construction schedule with the schedule of values, list of subcontracts, submittal schedule, progress report, payment requests and other schedules.
 6. Indicate completion in advance of the date established for Substantial Completion. Indicate Substantial Completion on the schedule to allow time for Owner's procedures necessary for certification of Substantial Completion.
- B. Phasing: Provide notations on the schedule to show how the sequence of the Work is affected by requirements for phased completion to permit Work by separate Contractors and partial occupancy by the Owner prior to Substantial Completion.
- C. Work Stages: Indicate important stages of construction for each major portion of the Work, including testing and installation.
- D. Area Separations: Provide a separate time bar to identify each major construction area for each major portion of the Work. Indicate where each element in an area must be sequenced or integrated with other activities.
- E. Cost Correlation: At the head of the schedule, provide a two item cost correlation line, indicating "pre-calculated" and "actual" costs. On the line show dollar-volume of Work performed as of the dates used for preparation of payment requests.
1. Refer to Section 01 02 70 - APPLICATION FOR PAYMENT for cost reporting and payment procedures.
- F. Distribution: Following response to the initial submittal, print and distribute copies to the Owner, subcontractors, and other parties required to comply with scheduled dates. Post copies in the Project meeting room and temporary field office.
1. When revisions are made, distribute to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in construction activities.
- G. Schedule Updating: Revise the schedule after each meeting or activity, where revisions have been recognized or made. Issue the updated schedule concurrently with report of each meeting.

1.05 SUBMITTAL SCHEDULE

- A. After development and acceptance of the Contractor's construction schedule, prepare a complete schedule of submittals. Submit the schedule within 10 days of the date required for establishment of the Contractor's construction schedule.

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1. Coordinate submittal schedule with the list of subcontracts, schedule of values and the list of products as well as the Contractor's construction schedule.
2. Prepare the schedule in chronological order; include submittals required during the first 90 days of construction. Provide the following information:
 1. Scheduled date for the first submittal.
 2. Related Section number.
 3. Submittal category.
 4. Name of subcontractor.
 5. Description of the part of the Work covered.
 6. Scheduled date for resubmittal.
 7. Scheduled date of the Owner's final release or approval.
- B. Distribution: Following response to initial submittal, print and distribute copies to the Owner, subcontractors, and other parties required to comply with submittal dates indicated. Post copies in the Project meeting room and field office
 1. When revisions are made, distribute to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in construction activities.
- C. Schedule Updating: Revise the schedule after each meeting or activity, where revisions have been recognized or made. Issue the updated schedule concurrently with report of each meeting.

1.06 DAILY CONSTRUCTION REPORTS

- A. Prepare a daily construction report, recording the following information concerning events at the site; and submit duplicate copies to the Owner at weekly intervals:
 1. List of subcontractors at the site.
 2. Approximate count of personnel at the site.
 3. High and low temperatures, general weather conditions.
 4. Accidents and unusual events.
 5. Meetings and significant decisions.
 6. Stoppages, delays, shortages, losses.
 7. Meter readings and similar recordings.
 8. Emergency procedures.
 9. Orders and requests of governing authorities.
 10. Change Orders received, implemented.
 11. Services connected, disconnected.
 12. Equipment or system tests and start-ups.
 13. Partial Completions, occupancies.
 14. Substantial Completions authorized.

1.07 SHOP DRAWINGS

- A. Submit newly prepared information, drawn to accurate scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project is not considered Shop Drawings.
- B. Shop Drawings include fabrication and installation drawings, setting diagrams, schedules, patterns, templates and similar drawings. Include the following information:

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1. Dimensions.
 2. Identification of products and materials included.
 3. Compliance with specified standards.
 4. Notation of coordination requirements.
 5. Notation of dimensions established by field measurement.
 6. Sheet Size: Except for templates, patterns and similar full-size Drawings, submit Shop Drawings on sheets at least 8-1/2" x 11" but no larger than 36" x 48".
 7. Submit one correctable translucent reproducible print and three blue- or black-line print for the Owner's review; the reproducible print will be returned.
- C. One of the prints returned shall be marked-up and maintained as a "Record Document".
- D. Do not use Shop Drawings without an appropriate final stamp indicating action taken in connection with construction.
- E. Coordination drawings are a special type of Shop Drawing that show the relationship and integration of different construction elements that require careful coordination during fabrication or installation to fit in the space provided or function as intended.
1. Submit coordination Drawings for integration of different construction elements. Show sequences and relationships of separate components to avoid conflicts in use of space.

1.08 PRODUCT DATA

- A. Collect Product Data into a single submittal for each element of construction or system. Product Data includes printed information such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams and performance curves. Where Product Data must be specially prepared because standard printed data is not suitable for use, submit as "Shop Drawings."
1. Mark each copy to show applicable choices and options. Where printed Product Data includes information on several products, some of which are not required, mark copies to indicate the applicable information. Include the following information:
 - a. Manufacturer's printed recommendations.
 - b. Compliance with recognized trade association standards.
 - c. Compliance with recognized testing agency standards.
 - d. Application of testing agency labels and seals.
 - e. Notation of dimensions verified by field measurement.
 - f. Notation of coordination requirements.
 2. Do not submit Product Data until compliance with requirements of the Contract Documents has been confirmed.
 3. Preliminary Submittal: Submit a preliminary single-copy of Product Data where selection of options is required.
 4. Submittals: Submit 2 copies of each required submittal; submit 4 copies where required for maintenance manuals. The Owner will retain one, and will return the other marked with action taken and corrections or modifications required.
 - a. Unless noncompliance with Contract Document provisions is observed, the submittal may serve as the final submittal.

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5. Distribution: Furnish copies of final submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities. Show distribution on transmittal forms.
 - a. Do not proceed with installation until an applicable copy of Product Data applicable is in the installer's possession.
 - b. Do not permit use of unmarked copies of Product Data in connection with construction.

1.09 SAMPLES

- A. Submit full-size, fully fabricated Samples cured and finished as specified and physically identical with the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and swatches showing color, texture and pattern.
 1. Mount, display, or package Samples in the manner specified to facilitate review of qualities indicated. Prepare Samples to match the Owner's Sample. Include the following:
 - a. Generic description of the Sample.
 - b. Sample source.
 - c. Product name or name of manufacturer.
 - d. Compliance with recognized standards.
 - e. Availability and delivery time.
 2. Submit Samples for review of kind, color, pattern, and texture, for a final check of these characteristics with other elements, and for a comparison of these characteristics between the final submittal and the actual component as delivered and installed.
 - a. Where variation in color, pattern, texture or other characteristics are inherent in the material or product represented, submit multiple units (not less than 3), that show approximate limits of the variations.
 - b. Refer to other Specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation and similar construction characteristics.
 - c. Refer to other Sections for Samples to be returned to the Contractor for incorporation in the Work. Such Samples must be undamaged at time of use. On the transmittal, indicate special requests regarding disposition of Sample submittals.
 3. Preliminary submittals: Where Samples are for selection of color, pattern, texture or similar characteristics from a range of standard choices, submit a full set of choices for the material or product.
 - a. Preliminary submittals will be reviewed and returned with the Owner's mark indicating selection and other action.
 4. Submittals: Except for Samples illustrating assembly details, workmanship, fabrication techniques, connections, operation and similar characteristics, submit 3 sets; one will be returned marked with the action taken.
 5. Maintain sets of Samples, as returned, at the Project site, for quality comparisons throughout the course of construction.

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- a. Unless noncompliance with Contract Document provisions is observed, the submittal may serve as the final submittal.
 - b. Sample sets may be used to obtain final acceptance of the construction associated with each set.
- B. Distribution of Samples: Prepare and distribute additional sets to subcontractors, manufacturers, fabricators, suppliers, installers, and others as required for performance of the Work. Show distribution on transmittal forms.
- C. Mock ups specified in individual Sections are special types of Samples. Mock ups are full-size examples erected on site to illustrate finishes, coatings, or finish materials and to establish the standard by which the Work will be judged.
- D. Comply with submittal requirements to the fullest extent possible. Process transmittal forms to provide a record of activity.

1.10 CONTRACTOR'S RESPONSIBILITIES

- A. Review shop drawings, product data and samples prior to submission.
- B. Verify:
 - 1. Field dimensions
 - 2. Field construction criteria
 - 3. Catalog numbers and similar data
- C. Coordinate each submittal with requirements of Work and of Contract Documents.
- D. Contractor's responsibility for errors and omissions in submittals is not relieved by Owner's review of submittals.
- E. Contractor's responsibility for deviations in submittals from Contract Document requirements is not relieved by Owner's review of submittals.
- F. Notify Owner in writing at time of submission, of deviations in submittals from contract requirements.
- G. Do not begin any work which requires submittals without having Owner's stamp and initials or signature indicating review.
- H. After Owner's review, make response required by Owner, stamp and distribute copies.

1.11 SUBMISSION REQUIREMENTS

- A. Make all submissions within 14 business days after date of Notice to Proceed.
- B. Submit number of copies of shop drawings, project data and samples which Contractor requires for distribution plus 3 copies which will be retained by the Owner.
- C. Submit number of samples specified in each of specification sections.
- D. Accompany submittals with transmittal letter, in duplicate, containing:
 - 1. Date

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2. Project title and number
3. Contractor's name and address
4. The number of each shop drawing, product datum and sample submitted
5. Notification of deviations from contract
6. Other pertinent data

E. Submittals shall include:

1. Date and revision dates
2. Project title and number
3. Names of:
 - a. Contractor
 - b. Subcontractor
 - c. Supplier
 - d. Manufacturer
 - e. Separate detailer when pertinent
4. Identification of product or material
5. Relation to adjacent structure or material
6. Field dimensions, clearly identified as such
7. Specification Section and page number
8. Applicable standards, such as ASTM number or federal specification
9. Identification of deviation(s) from Contract Documents
10. Contractor's stamp, initialed or signed, certifying to review of submittal, verification of field measurements, and compliance with Contract.

1.12 RESUBMISSION REQUIREMENTS

A. Shop drawings:

Revise initial drawings as required and resubmit as specified for initial submittal. Indicate on drawings all changes which have been made other than those requested by Owner.

B. Product Data and Samples:

Submit new datum and samples as required for initial submittal.

C. Make all resubmittals within 10 business days after date on Owner's stamp.

1.13 DISTRIBUTION OF SUBMITTALS AFTER REVIEW

A. Distribute copies of shop drawings and project datum which carry Owner's stamp:

1. Contractor's file
2. Job site file
3. Record documents file
4. Subcontractors
5. Supplier
6. Fabricator

B. Distribute samples as directed.

1.14 OWNER'S ACTION

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- A. Except for submittals for record, information or similar purposes, where action and return is required or requested, the Owner will review each submittal, mark to indicate action taken, and return promptly.
 - 1. Compliance with specified characteristics is the Contractor's responsibility.
- B. Action Stamp: The Owner will stamp each submittal with a uniform, self-explanatory action stamp. The stamp will be appropriately marked, as follows, to indicate the action taken:
 - 1. Final Unrestricted Release: Where submittals are marked "Furnish as Submitted," that part of the Work covered by the submittal may proceed provided it complies with requirements of the Contract Documents; final acceptance will depend upon that compliance.
 - 2. Final-But-Restricted Release: When submittals are marked "Furnish as Corrected," that part of the Work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents; final acceptance will depend on that compliance.
 - 3. Returned for Resubmittal: When submittal is marked "Revise and Resubmit", do not proceed with that part of the Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal in accordance with the notations; resubmit without delay. Repeat if necessary to obtain a different action mark.
 - 4. Returned, Improper Submittal: When submittal is marked "Rejected" do not proceed with that part of the Work covered by the submittal, including purchasing, fabrication delivery or other activity. The submittal does not conform with project requirements. Prepare a new submittal without delay.
 - 5. Do not permit submittals marked "Rejected, Revise and Resubmit" to be used at the Project site, or elsewhere where Work is in progress.
 - 6. Other Action: Where a submittal is primarily for information or record purposes, special processing or other activity, the submittal will be returned, marked "Action Not Required".

PART 2 – PRODUCTS

(NOT APPLICABLE)

PART 3 – EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 30 00

SECTION 01 35 62

EROSION AND SEDIMENTATION CONTROL

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Erosion and Sedimentation Control Program for the Project.

1.2 SUBMITTALS

- A. Erosion and Sediment Control Plan

- 1. Submit erosion and sediment control drawings specific to the site within ten (10) days of Notice To Proceed (NTP). Show locations, types and details of erosion and sediment control features and construction.
- 2. Show the schedule of implementation coordinated with the construction schedule.
- 3. Include a narrative describing the program and maintenance.

- B. Product Data

- 1. Silt Fence Geotextile Filter Fabric
- 2. Filter Baskets

- C. Documentation Log

- 1. Provide weekly inspection logs of inspection and maintenance of all erosion control procedures.
 - a. Include additional inspections for rainfalls over ½".
- 2. Provide photographs during construction illustrating implementation of erosion control measures and on-going repairs/maintenance to these measures. At minimum photographs should be documented for:
 - a. Before Construction
 - b. During Construction
 - c. After Construction

1.3 QUALITY ASSURANCE

- A. Requirements: Create and implement an Erosion and Sedimentation Control plan, specific to the site, which conforms to the erosion and sedimentation requirements of the 2003 United States Environmental Protection Agency (EPA) Construction General Permit, OR local erosion and sedimentation control standards and codes, whichever is more stringent. The Construction General Permit outlines the provisions necessary to comply with Phase I and Phase II Of the National Pollution Discharge Elimination (NPDES) program.
- B. Objectives:

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1. Prevent loss of soil during construction by storm water runoff and/or wind erosion, including protecting stock pits for reuse.
2. Prevent sedimentation of storm sewer or receiving streams.
3. Prevent polluting the air with dust and particulate matter.

PART 2 - PRODUCTS

2.1 Silt Fence:

- A. Geotextile Filter Fabric: A nonwoven fabric consisting of previous sheets of propylene, nylon, polyester, or ethylene yarn. Certify material by manufacturer to meet the following requirements. Pre-assembled silt fencing may be substituted if it meets the above requirements.

<u>Property</u>	<u>Test Method</u>	<u>Requirements</u>
Minimum Tensile Strength	ASTM D4632	90 lb
Maximum Elongation at 45 lb	ASTM D4632	50% Max
Apparent Opening Size	ASTM D4751	AOS<60 mm
Minimum Permittivity	ASTM D4491	$1 \times 10^{-2} \text{ SEC}^{-1}$
Ultraviolet Exposure Strength Retention	ASTM D4355	70% @ 500h

- B. Posts: Wood or steel and a minimum 5 ft long. Wood posts shall be at least 4 in. dia. Or nominal 2 x 2 in. Steel posts shall be round, or "U", "T", or "C" shaped with a minimum weight of 1.33 lb/ft and projections for fastening wire to fence. Wire Staples: 9 gage and minimum 1 in. long.

2.2 INLET FILTER

A. FILTER BASKETS

1. CATCH –ALL (or equal)
As manufactured by:
METRO DETROIT
Price and Company, Inc.
29165 Wall Street
Wixom, MI 48393-3525
Toll Free: 866.960.4300
Local T: 248.596.4300
F: 248.596.4301
E: geopro@priceandcompany.com

2.3 CONSTRUCTION ENTRANCE

- A. Aggregate size: CA-1 or CA-4

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- B. Geotextile fabric: shall meet the requirements of specification 592 Geotextile table 1 or 2, class I, II or IV of the Illinois Urban Manual.

2.4 TEMPORARY SEEDING PLANTS

- A. Shall be selected from the following:

TEMPORARY SEEDING SPECIES, RATES AND DATES

Species	Lbs/Acre	Lbs/1000 sf	Seeding dates
Oats	90	2	Early spring-July 1
Cereal Rye	90	2	Early spring-Sept. 30
Wheat	90	2	Early spring-Sept. 30
Perennial Ryegrass	25	0.6	Early spring-Sept. 30

PART 3 - EXECUTION

3.1 GENERAL

- A. Do not start operations until the erosion and sediment control plan has been submitted and features and in place.
- B. Comply with "Quality Assurance" provisions of these specifications and the erosion and sediment control plan.
- C. Schedule the Work in start to finish phases to minimize exposing the site to erosion.
- D. Install erosion and sediment control features before site disturbance begins and immediately after new inlets are installed.
- E. Do not allow storm water to flow into excavations and disturbed areas.
- F. Do not discharge water into sanitary sewers, watercourses or offsite.
- G. Do not discharge water-containing sediment in accordance with "Quality Assurance" requirements and as presented in the erosion and sediment control plan submittal or a maximum retained as 30 milligrams of sediment per liter of water. Conduct continuous monitoring of sediment.
- H. Maintain sediment control features. Inspect weekly and after every rain. Repair damaged bales, end runs and undercutting beneath bales. Repair breaks in diversion dams and damage down streams of the break. Replace damaged and deteriorated filter fabric and fences. Remove sediment which deposits fill 1/3 of the fabric surface area.
- I. Do not allow sediment to flow into vegetated areas.
- J. Retain all sediment on the site. Provide temporary stone roadways at exits from the site to ensure mud run-off of tires before exiting.

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- K. Utilize the sizes of equipment appropriate to the task to minimize exhaust, noise and vibration.
- L. Mist or provide other means to keep dust from being scattered to the air.
- M. All sediment that gets onto public right-of-way must be removed immediately.
- N. During dewatering operations, water will be pumped into sediment basins or silt traps. Dewatering directly to field tiles or storm sewer is prohibited.
- O. Stockpile must be kept covered and watered for dust control.

INSTALLATION/APPLICATION/ERECTION

- P. General: Control surface water runoff on-site and provide temporary soil stabilization measures as required to prevent erosion of soil by action of water. Protect storm sewers adjacent to work site from sedimentation by installation of erosion and sediment control measures. Provide, as a first step in construction operations, barriers, and other measures intended to deter erosion and transport of sediment associated with construction activities before construction starts or as it progresses.
- Q. Silt Fences: Space posts 6 ft maximum for non-reinforced or 10 ft maximum for reinforced and securely install with at least 2 feet of post in the ground. Excavate trench approximately 4 in. wide and 4 in. deep along line of posts and upslope side of posts using wire staples, tie wires, or hog rings. Extend wire and fence into trench a minimum of 4 in. Attach geo-textile filter fabric directly to posts and wire reinforcement fence as required by wire, staples, or other means. Install filter fabric in a manner such that fabric height above grade is 2 to 3 ft. Do not staple fabric to trees. Do not use fabric with defects or other damage. For manholes, the filter fabric can be placed around the lid and secured by the lid weight.
- R. Construction Entrance: Construct with minimum dimensions of 14' wide, 70' length and 6" thickness of CA-1 or CA-4. Filter fabric shall be used under the aggregate to minimize the migration of stone into the underlying soil by heavy vehicle loads. See plans for location.
- S. Temporary Seeding: Remove large rocks or other debris that may interfere with seedbed preparation or seeding operations. Prepare seedbed of 3 to 4 inches loose soil. If rainfall has caused the surface to become sealed or crusted, loosen, by suitable method, it just prior to seeding. Where pH is below 5.5 and seeding will not take place within 30 days, apply one and one half to two tons per acre of finely ground agricultural limestone. Seeding shall be evenly applied with a cyclone seeder, drill, culti-packer seeder or hydroseeder. Small grains shall be planted no more than one inch deep. Grasses shall be planted no more than one half inch deep.

END OF SECTION

SECTION 01 40 00

QUALITY CONTROL SERVICES

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section specifies administrative and procedural requirements for quality control services.
- B. Quality control services include inspections and tests and related actions including reports, performed by independent agencies, governing authorities, and the Contractor. They do not include Contract enforcement activities performed by the Owner.
- C. Inspection and testing services are required to verify compliance with requirements specified or indicated. These services do not relieve the Contractor of responsibility for compliance with Contract Document requirements.
- D. Requirements of this Section relate to customized fabrication and installation procedures, not production of standard products.
 - 1. Specific quality control requirements for individual construction activities are specified in the Sections that specify those activities. Those requirements, including inspections and tests, cover production of standard products as well as customized fabrication and installation procedures.
 - 2. Inspections, test and related actions specified are not intended to limit the Contractor's quality control procedures that facilitate compliance with Contract Document requirements.
 - 3. Requirements for the Contractor to provide quality control services required by the Owner, or authorities having jurisdiction are not limited by provisions of this Section.

1.02 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 RESPONSIBILITIES

- A. The Contractor shall provide inspections, tests and similar quality control services, specified in individual Specification Sections and required by governing authorities, except where they are specifically indicated to be the Owner's responsibility, or are provided by another identified entity; these services include those specified to be performed by an independent agency and not by the Contractor. Costs for these services shall be included in the Contract Sum.
 - 1. The Owner will select and the Contractor shall employ and pay an independent agency, to perform specified quality control services.
 - a. Where the Owner has engaged a testing agency or other entity for testing and inspection of a part of the Work, and the Contractor is also required to engage an entity for the same or related element, the

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Contractor shall not employ the entity engaged by the Owner, unless otherwise agreed in writing with the Owner.

2. Re-testing: The Contractor is responsible for re-testing where results of required inspections, tests or similar services prove unsatisfactory and do not indicate compliance with Contract Document requirements, regardless of whether the original test was the Contractor's responsibility.
 - a. Cost of re-testing construction revised or replaced by the Contractor is the Contractor's responsibility, where required tests were performed on original construction.
 3. Associated Services: The Contractor shall cooperate with agencies performing required inspections, tests and similar services and provide reasonable auxiliary services as requested. Notify the agency sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include but are not limited to:
 - a. Providing access to the Work and furnishing incidental labor and facilities necessary to facilitate inspections and tests.
 - b. Taking adequate quantities of representative samples of materials that require testing or assisting the agency in taking samples.
 - c. Providing facilities for storage and curing of test samples, and delivery of samples to testing laboratories.
 - d. Providing the agency with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.
 - e. Security and protection of samples and test equipment at the Project site.
- B. Duties of the Testing Agency: The independent testing agency engaged to perform inspections, sampling and testing of materials and construction specified in individual Specification Sections shall cooperate with the Owner and Contractor in performance of its duties and shall provide qualified personnel to perform required inspections and tests.
1. The agency shall notify the Owner and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 2. The agency is not authorized to release, revoke, alter or enlarge requirements of the Contract Documents, or approve or accept any portion of the Work.
 3. The agency shall not perform any duties of the Contractor.
- C. Coordination: The Contractor and each agency engaged to perform inspections, tests and similar services shall coordinate the sequence of activities to accommodate required services with a minimum of delay. In addition, the Contractor and each agency shall coordinate activities to avoid the necessity of removing and replacing construction to accommodate inspections and tests.
1. The Contractor is responsible for scheduling times for inspections, tests, taking samples and similar activities.

1.04 SUBMITTALS

- A. The independent testing agency shall submit a certified written report of each inspection, test or similar service, to the Owner, in duplicate, and a copy to the Contractor.
1. Submit additional copies of each written report directly to the governing authority, when the authority so directs.

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2. Report Data: Written reports of each inspection, test or similar service shall include, but not be limited to:
 - a. Date of issue.
 - b. Project title and number.
 - c. Name, address and telephone number of testing agency.
 - d. Dates and locations of samples and tests or inspections.
 - e. Names of individuals making the inspection or test.
 - f. Designation of the Work and test method.
 - g. Identification of product and Specification Section.
 - h. Complete inspection or test data.
 - i. Test results and an interpretations of test results.
 - j. Ambient conditions at the time of sample-taking and testing.
 - k. Comments or professional opinion as to whether inspected or tested Work complies with Contract Document requirements.
 - l. Name and signature of laboratory inspector.
 - m. Recommendations on re-testing.

1.05 QUALITY ASSURANCE

- A. Qualification for Service Agencies: Engage inspection and testing service agencies, including independent testing laboratories, which are prequalified as complying with "Recommended Requirements for Independent Laboratory Qualification" by the American Council of Independent Laboratories, and which specialize in the types of inspections and tests to be performed.
 1. Each independent inspection and testing agency engaged on the Project shall be authorized by authorities having jurisdiction to operate in the State of Illinois.
- B. Meet basic requirements of ASTM E329 Standard of Recommended Practice for Inspection and Testing Agencies for Concrete and Steel Used in Construction."
- C. Submit copy of report of inspection of facilities made by Materials Reference Laboratory of National Bureau of Standards during most recent tour of inspection; with memorandum of remedies of all deficiencies reported by inspection.
- D. Testing Equipment:
 1. Calibrated at maximum 12-month intervals by devices of accuracy traceable to either:
 - a. National Bureau of Standards
 - b. Accepted values of natural physical constants.
 2. Submit copy of certificate of calibration, made by accredited calibration agency.

1.06 LABORATORY DUTIES: LIMITS OF AUTHORITY

- A. Cooperate with Owner and Contractor; provide qualified personnel promptly on notice.
- B. Perform specified inspections, sampling and testing of materials and construction methods.
 1. Comply with specified Standards: ASTM, other recognized authorities, and as specified.

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- 2. Ascertain compliance with Contract requirements.
 - C. Promptly notify Owner and Contractor of irregularities or deficiencies of work which are observed during performance of services.
 - D. Promptly submit 5 copies of reports of inspections and tests to Owner including:
 - 1. Date issued
 - 2. Project title and number
 - 3. Testing Laboratory name and address
 - 4. Name and signature of Inspector
 - 5. Date of inspection and sampling
 - 6. Record of temperature and weather
 - 7. Date of test
 - 8. Identification of product and Specification Section
 - 9. Location in project
 - 10. Type of inspection or test
 - 11. Observations regarding compliance with Contract Documents
 - E. Perform additional services as required by Owner.
 - F. Laboratory is not authorized to:
 - 1. Release, revoke, alter or enlarge on, Contract requirements.
 - 2. Approve or accept any portion of work.
 - 3. Perform any duties of the Contractor.
- 1.07 CONTRACTOR'S RESPONSIBILITIES
- A. Cooperate with Laboratory personnel, provide access to work, to manufacturer's operations.
 - B. Provide Laboratory, preliminary representative samples of materials for testing, in required quantities.
 - C. Furnish copies of mill test reports.
 - D. Furnish casual labor and facilities:
 - 1. To provide access to work to be tested.
 - 2. To obtain and handle samples at site.
 - 3. To facilitate inspections and tests.
 - 4. For Laboratory's exclusive use for storage and curing of test samples.
 - E. Notify Laboratory sufficiently in advance of operations to allow for personnel assignment of test scheduling.
 - F. Employ, and pay for, services of a separate, equally qualified, Independent Testing Laboratory to perform additional inspections, sampling and testing required.
 - 1. For Contractor's convenience.
 - 2. When initial tests indicate work does not comply with Contract.

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**PART 2 - PRODUCTS
(Not Applicable)**

PART 3 - EXECUTION

3.01 REPAIR AND PROTECTION

- A. General: Upon completion of inspection, testing, sample-taking and similar services, repair damaged construction and restore substrates and finishes to eliminate deficiencies, including deficiencies in visual qualities of exposed finishes. Comply with Contract Document requirements for "Cutting and Patching."
- B. Protect construction exposed by or for quality control services, and protect repaired construction.
- C. Repair and protection is the Contractor's responsibility, regardless of the assignment of responsibility for inspection, testing or similar services.

END OF SECTION 01 40 00

SECTION 01 50 00

TEMPORARY FACILITIES

PART 1 - GENERAL

1.01 SUMMARY

- A. This section specifies administrative and procedural requirements for temporary services and facilities, including utilities, construction and support facilities, and security and protection.
 - 1. Contractor shall be solely responsible for adequacy of temporary facilities, including design and engineering thereof.
- B. Construction and support facilities required include but are not limited to:
 - 1. Temporary roadway paving and/or steel plates.
 - 2. Field offices and/or storage sheds.
 - 3. Sanitary facilities, including toilets and drinking water.
 - 4. Dewatering facilities and drains.
 - 5. Temporary enclosures.
 - 6. Waste disposal services.
 - 7. Rodent and pest control.
 - 8. Construction aids and miscellaneous general services and facilities.
- C. Security and protection facilities and services required include but are not limited to:
 - 1. Barricades, warning signs and lights.
 - 2. Enclosure fences.
 - 3. Environmental protection.

1.02 RELATED WORK

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 QUALITY ASSURANCE

- A. Regulations: comply with local codes and ordinances of governing authorities having jurisdiction.
- B. Standards: contractor determines and complies with applicable standards for temporary and construction facilities.
- C. Inspections: arrange for authorities having jurisdiction to inspect and test each utility before use. Obtain required certification and permits.

1.04 PROJECT CONDITIONS

- A. Conditions of use: keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Do not overload temporary services or facilities, or permit them to interfere with construction progress. Do not allow hazardous, dangerous or unsanitary conditions or public nuisances to develop or persist on the site.

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- B. Easements: obtain necessary easements for temporary facilities when required.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. General: provide new materials and equipment or undamaged previously used materials and equipment in serviceable condition. Provide materials and equipment suitable for the use intended.
- B. Water: provide potable water approved by local health authorities.
- C. First aid supplies: comply with governing regulations.
- D. Fire extinguishers: provide hand-carried, portable UL-rated, class "A" fire extinguishers for temporary offices and similar spaces. In other locations, provide hand-carried, portable UL-rated, class "ABC" dry chemical extinguishers, or a combination of extinguishers of NFPA recommended classes for the exposures.
 - 1. Comply with NFPA 10 and 241 for classification, extinguishing agent and size required by location and class of fire exposure.
- E. Work zone traffic control: comply with IDOT 701 and 702.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Locate facilities where they will best serve the Project and result in minimum interference with performance of the Work. Relocate and modify facilities as required.
- B. Provide each facility ready for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.02 TEMPORARY INSTALLATION

- A. Provide earthen embankments and similar barriers in and around excavations and subgrade construction, sufficient to prevent flooding by runoff of storm water from heavy rains.

3.03 TEMPORARY CONSTRUCTION AND SUPPORT FACILITY INSTALLATION

- A. Storage and fabrication sheds (optional): install storage and fabrication sheds, sized, furnished and equipped to accommodate materials and equipment involved, including temporary utility service. Sheds may be open shelters or fully enclosed spaces on the site.
- B. Sanitary facilities: comply with regulations and health codes for the type, number, location, operation and maintenance of fixtures and facilities. Install where facilities will best serve the Project's needs.

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1. Provide self-contained, single-occupant toilet units of the chemical, aerated recirculation or combustion type, properly vented and fully enclosed with a glass fiber reinforced polyester shell or similar nonabsorbent material.
 2. Provide toilet tissue, paper towels, paper cups and similar disposable materials for each facility. Provide covered waste containers for used material.
- C. Temporary enclosures: provide temporary enclosure for protection of construction in progress and completed from exposure, foul weather, other construction operations and similar activities.
1. Where heat is needed, provide temporary enclosures where there is no other provision for containment of heat. Coordinate enclosure with ventilating and materials drying or curing requirements to avoid dangerous conditions and effects.
- D. Temporary signs: prepare and install signs to inform the public and persons seeking entrance to the Project. Support on the posts or framing of preservative treated wood or steel. Do not permit installation of unauthorized signs.
- E. Collection of disposal of waste: collect waste from project site daily. Comply with requirements of NFPA 241 for removal of combustible waste materials and debris. Enforce requirements strictly. Do not hold materials more than seven days during normal weather and three days when the temperature is expected to rise above 80 degrees Fahrenheit. Handle hazardous, dangerous or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.

3.04 SHORING, BRACING AND UNDERPINNING (as required)

- A. Provide shoring and bracing necessary to protect existing buildings, streets, walkways, utilities and other improvements and excavation against loss of ground or caving embankments. Maintain shoring and bracing. Remove temporary shoring and bracing when no longer required.
- B. Whenever shoring is required, locate the system to clear permanent construction and to permit forming and finishing of concrete surfaces. Provide shoring system, adequately anchored and braced to resist earth and hydrostatic pressures.
- C. Shoring systems retaining earth on which the support or stability of existing structure is dependent must be left in place at completion of work.
- D. Maintain bracing until structural elements are rebraced by other bracing or until permanent construction is able to withstand lateral earth and hydrostatic pressures.
- E. Remove sheeting, shoring and bracing in stages to avoid disturbance to underlying soils and damage to structures, pavements, facilities and utilities.
- F. Repair or replace as acceptable by Owner, adjacent work damaged or displaced through the installation or removal of shoring and bracing work.

3.05 SECURITY AND PROTECTION FACILITIES

- A. Barricades, warning signs and lights: Comply with IDOT 701,702 and local code requirements. Paint with appropriate colors, graphics and warning signs to inform personnel and the public of the hazard being protected against. Where appropriate and needed, provide lighting, including flashing red or amber lights.

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- B. Environmental protection: provide environmental protection as outlined in Section 01 56 00 – TEMPORARY ENVIRONMENTAL CONTROLS.
- C. Site security to be provided by the Contractor as required.

3.06 OPERATION, TERMINATION AND REMOVAL

- A. Supervision: enforce strict discipline in use of temporary facilities. Limit availability of temporary facilities to essential and intended uses to minimize waste and abuse.
- B. Maintenance: maintain facilities in good operating condition until removal.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation and similar facilities on a 24-hour a day basis where required to achieve indicated results and to avoid the possibility of damage.
- C. Termination and removal: remove each temporary facility when the need has ended, or when replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with the temporary facility. Repair damaged Work, clean exposed surfaces and replace construction that cannot be satisfactorily repaired.
- D. Materials and facilities that constitute temporary facilities are the property of the Contractor.

END OF SECTION 01 50 00

SECTION 01 56 00

TEMPORARY ENVIRONMENTAL CONTROLS

PART 1 - GENERAL

1.01 WORK INCLUDES

- A. Contractors shall:
 - 1. Provide controls over environmental conditions at the construction site and related areas under the Contractor's control.
 - 2. Remove physical evidence of temporary controls at completion of work or as directed.

1.02 RELATED WORK

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 QUALITY CONTROL

- A. Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control - "Green Book"

1.04 DUST CONTROL

- A. Provide dust control materials to minimize dust from construction operations. Prevent airborne dust from dispersing into the atmosphere.
- B. Dust- and HVAC-Control Plan: Submit coordination drawing and narrative that indicates the dust- and HVAC-control measures proposed for use, proposed locations, and proposed time frame for their operation. Include the following:
 - 1. Locations of dust-control partitions at each phase of work.
 - 2. HVAC system isolation schematic drawing.
 - 3. Location of proposed air-filtration system discharge.
 - 4. Waste-handling procedures.
 - 5. Other dust-control measures.

1.05 WATER CONTROL

- A. Control surface water to prevent damage to the project, the site or 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.
- 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 sitting or runoff of silt or sediment or other damage to all portions of the site or to adjoining areas.

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1.06 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.
 - 2. Maintain site in clean condition.
 - a. Dispose of garbage and debris.
 - b. Do not keep items on site which attract rodents.
 - 3. When the use of rodenticides is deemed necessary, submit a copy of proposed program to the Owner. Clearly indicate:
 - a. Areas to be treated.
 - b. Rodenticides to be used, with copy of manufacturer's current printed instructions.
 - c. Pollution preventative measures to be employed.
 - d. Illinois licensed pesticides applicator.

1.06 DEBRIS CONTROL

- A. Maintain all areas under Contractor's control free of extraneous debris.
- B. Initiate and maintain a specific program to prevent accumulation of debris at construction site, storage and parking areas or along access roads and haul routes.
 - 1. Provide containers specified in SECTION 01 71 00 - CLEANING for deposit of debris.
 - 2. Prohibit overloading of trucks to prevent spillages on access and haul routes.
 - a. Provide daily inspection of traffic areas to enforce requirements.
- C. Schedule collection and disposal of debris is specified in SECTION 01 71 00 - CLEANING.
 - 1. Provide additional collections and disposals of debris whenever regular schedule is inadequate to prevent accumulation.

1.07 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. Excavate and dispose of all contaminated earth off-site. Replace with suitable compacted fill and topsoil.
- C. Take special measures to prevent harmful substances from entering public waters or spilling onto the ground. Prevent disposal of wastes, effluents, chemicals or other such substances adjacent to streams, or in sanitary or storm sewers, including waste from portable toilets.
- D. Provide systems for control of atmospheric pollutants.

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1. Prevent toxic concentrations of chemicals.
2. Prevent harmful dispersal of pollutants into the atmosphere.

1.08 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. Minimize the areas of bare soil exposed at one time.
 2. Provide temporary control measures such as berms, dikes and drains.
 3. Provide temporary control measures to prevent silting or runoff of silt or sediment from site.
- B. Construct fills and waste areas by selective placement to eliminate surface silts or clays which will erode.
- C. Periodically inspect earthwork to detect evidence of the start of erosion. Apply corrective measures to control erosion.

PART 2 - PRODUCTS

(NOT APPLICABLE)

PART 3 - EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 56 00

SECTION 01 58 00

PROJECT CONSTRUCTION SIGN

PART 1 - GENERAL

1.1 WORK INCLUDES

A. Contractor shall:

1. Fabricate, install and remove project construction signs (one at each park site) as described herein.

1.2 RELATED WORK

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.3 PROJECT CONSTRUCTION SIGN CONTENT

A. Sign shall have the following information included on it:

1. Name of project
2. City of Evanston name and logo
3. Rendered plan view of the project (James Park Only)
5. Elected officials (Mayor and Ward Councilmember)
6. Description of scope of work
7. Estimated completion date
8. Contract amount
9. Funding sources
10. General contractor's name
11. Contact information for questions

1.4 LOCATION

- A. The contractor shall submit a plan of the proposed project construction sign location to the Owner for approval.

PART 2 - PRODUCTS

2.1 SIGN MATERIALS

- A. Owner will supply layout example, data and information to be included on sign. Contractor shall submit draft layout of sign for approval by the Owner prior to sign fabrication. Sign layout shall be submitted prior to pre-construction meeting. Sign shall be installed as soon as possible following pre-construction meeting and prior to commencement of the work.
- B. Size: 4 feet x 8 feet x 3/4 inch A/C plywood or equal. Good side of plywood shall be used for sign.
- C. Mounting: Signs shall be securely mounted on two or three 4" x 4" pressure treated wood posts so that bottom of sign is 4 feet above grade. Contractor shall be responsible for embedment and mounting details to securely install posts and mount signs to posts. Contractor shall provide bracing as necessary to secure posts.

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- D. If sign board is not flat, Contractor shall provide back framing to bring sign board into flat condition. Back framing shall be securely attached to posts and shall be painted to match posts.
- E. Posts and back of signs shall be painted white.
- F. Sign faces shall be professionally prepared, either computer generated on weather resistant materials and applied to plywood signboard or painted directly on signboard surface using weather resistant signage paint materials.
- G. Lettering style shall be block letters or other lettering approved by the Owner.

PART 3 - EXECUTION

3.1 INSTALLATION OF SUPPORTS

- A. Set pole-type supports into excavations:
 - 1. Depth: Minimum 4 ft.
 - 2. Plumb poles, backfill, tamp earth around poles.
- B. Braced-framing:
 - 1. Drive stakes, size determined by loading, minimum depth: 2'-6".
 - 2. Secure framing members to stakes, cut tops of stakes to even line, flush with framing members

3.2 MAINTENANCE

- A. Repair damages to structure, framing or sign.
- B. Repaint surfaces, lettering, and logotypes that show severe weathering.
- C. Maintain signs and supports in neat, clean condition.

3.3 REMOVAL

- A. At conclusion of project, sign and posts shall be removed by Contractor and legally disposed.
- B. Return grounds to condition as found prior to installation of sign. Resulting voids created by sign removal shall be completely backfilled with compacted earth, 9" of topsoil and sod to match finished grade.

END OF SECTION 01580

SECTION 01 60 00

MATERIALS AND EQUIPMENT

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section specifies administrative and procedural requirements governing the Contractor's selection of products for use in the Project.
- B. The Contractor's Construction Schedule and the Schedule of Submittals are included under Section 01 30 00 - SUBMITTALS.

1.02 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 DEFINITIONS

- A. Definitions used in this Article are not intended to change the meaning of other terms used in the Contract Documents, such as "specialties," "systems," "structure," "finishes," "accessories," and similar terms. Such terms such are self-explanatory and have well recognized meanings in the construction industry.
 - 1. "Products" are items purchased for incorporation in the Work, whether purchased for the Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 2. "Named Products" are items identified by manufacturer's product name, including make or model designation, indicated in the manufacturer's published product literature, that is current as of the date of the Contract Documents.

1.04 QUALITY ASSURANCE

- A. Source Limitations: To the fullest extent possible, provide products of the same kind, from a single source.
 - 1. When specified products are available only from sources that do not or cannot produce a quantity adequate to complete project requirements in a timely manner, consult with the Owner for a determination of the most important product qualities before proceeding. Qualities may include attributes relating to visual appearance, strength, durability, or compatibility. When a determination has been made, select products from sources that produce products that possess these qualities, to the fullest extent possible.
- B. Compatibility of Options: When the Contractor is given the option of selecting between two or more products for use on the Project, the product selected shall be compatible with products previously selected, even if previously selected products were also options.
 - 1. The Contractor is responsible for providing products and construction methods that are compatible with products and construction methods of subcontractors.
 - 2. If a dispute arises between the general Contractor and subcontractors over concurrently selectable, but incompatible products, the Owner will determine

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which products shall be retained and which are incompatible and must be replaced.

- C. Nameplates: Except for required labels and operating data, do not attach or imprint manufacturer's or producer's nameplates or trademarks on exposed surfaces of products which will be exposed to view.
 - 1. Labels: Locate required product labels and stamps on a concealed surface or, where required for observation after installation, on an accessible surface that is not conspicuous.
- D. Manufacturer's Instructions
 - 1. When contract documents specify that installation shall comply with manufacturer's printed instructions, obtain and distribute copies of such instructions to all parties involved in the installation, including the Owner.
 - 2. Maintain one set of complete instructions with the Project Record Documents at the job site during installation and until completion.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle products in accordance with the manufacturer's recommendations, using means and methods that will prevent damage, deterioration and loss, including theft.
 - 1. Schedule delivery to minimize long-term storage at the site and to prevent overcrowding of construction spaces.
 - 2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, or theft.
 - 3. Deliver products to the site in the manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting and installing.
 - 4. Inspect products upon delivery to ensure compliance with the Contract Documents, and to ensure that products are undamaged and properly protected.
 - 5. Store products at the site in a manner that will facilitate inspection and measurement of quantity or counting of units.
 - 6. Store heavy materials away from the Project structure in a manner that will not endanger the supporting construction.
 - 7. Store products subject to damage by the elements above ground, under cover in a weathertight enclosure, with ventilation adequate to prevent condensation. Maintain temperature and humidity within range required by manufacturer's instructions.
- B. Arrange for transportation and deliveries of materials and equipment in accord with approved current construction schedules and in ample time to facilitate inspection prior to installation.
- C. Coordinate deliveries to avoid conflict with work and conditions at site:
 - 1. Work of other contractors or Owner, or their use of premises.
 - 2. Limitations of storage space.
 - 3. Availability of equipment and personnel for handling products.

PART 2 - PRODUCTS

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2.01 PRODUCT SELECTION

- A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, unused at the time of installation.
1. Provide products complete with all accessories, trim, finish, safety guards and other devices and details needed for a complete installation and for the intended use and effect.
 2. Standard Products: Where available, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 3. Comply with size, make, type and quality specified.
 4. Manufactured and fabricated products:
 - a. Design, fabricate and assemble in accord with best engineering and shop practices.
 - b. Manufacture like parts of duplicate units to standard interchangeable sizes.
 - c. Two or more items of the same kind shall be identical from the same manufacturer.
 - d. All system parts shall be from the same manufacturer to the greatest extent practical.
 - e. Adhere to equipment capacities, sizes and dimensions shown or specified unless variations are specifically approved by Change Order.
- B. Product Selection Procedures: Product selection is governed by the Contract Documents and governing regulations, not by previous Project experience. Procedures governing product selection include the following:
1. Proprietary Specification Requirements: Where only a single product or manufacturer is named, provide the product indicated. No substitutions will be permitted.
 2. Semi-proprietary Specification Requirements: Where two or more products or manufacturers are named, provide one of the products indicated. No substitutions will be permitted.
 - a. Where products or manufacturers are specified by name, accompanied by the term "or equal," or "or approved equal" comply with the Contract's provisions concerning "substitutions" to obtain approval for use of an unnamed product.
 3. Non-Proprietary Specifications: When the Specifications list products or manufacturers that are available and may be incorporated in the Work, but do not restrict the Contractor to use of these products only, the Contractor may propose any available product that complies with Contract requirements. Comply with Contract Document provisions concerning "substitutions" to obtain approval for use of an unnamed product.
 4. Descriptive Specification Requirements: Where Specifications describe a product or assembly, listing exact characteristics required, with or without use of a brand or trade name, provide a product or assembly that provides the characteristics and otherwise complies with Contract requirements.
 5. Performance Specification Requirements: Where Specifications require compliance with performance requirements, provide products that comply with these requirements, and are recommended by the manufacturer for the application indicated. General overall performance of a product is implied where the product is specified for a specific application.

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- a. Manufacturer's recommendations may be contained in published product literature, or by the manufacturer's certification of performance.
- 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 standards, codes or regulations specified.
- 7. Visual Matching: Where Specifications require matching an established Sample, the Owner's decision will be final on whether a proposed product matches satisfactorily.
 - a. Where no product available within the specified category matches satisfactorily and also complies with other specified requirements, comply with provisions of the Contract Documents concerning "substitutions" for selection of a matching product in another product category, or for noncompliance with specified requirements.
- 8. Visual Selection: Where specified product requirements include the phrase "...as selected from manufacturer's standard colors, patterns, textures..." or a similar phrase, select a product and manufacturer that complies with other specified requirements. The Owner will select the color, pattern and texture from the product line selected.
- C. Deliver products in undamaged condition in original containers or packaging, with identifying labels intact and legible.
- D. Clearly mark partial deliveries of component parts or assemblies or equipment to permit easy identification of parts and to facilitate assembly.
- E. Immediately on delivery, inspect shipment to assure:
 - 1. Product complies with contract documents and Owner
 - 2. Quantities are correct.
 - 3. Containers and packages are intact and labels are legible.
 - 4. Products are properly protected and undamaged.

PART 3 - EXECUTION

3.01 INSTALLATION OF PRODUCTS:

- A. Comply with manufacturer's instructions and recommendations for installation of products in the applications indicated. Anchor each product securely in place, accurately located and aligned with other Work.
 - 1. Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- B. Provide equipment and personnel to handle products and equipment, including those furnished by the Owner. Prevent damage to products or packaging.
- C. Provide additional protection during handling to prevent scraping, marring or otherwise damaging products, equipment or surrounding surfaces.
- D. Handle products and equipment in manner to prevent bending or overstressing.
- E. Lift packages, equipment or components only at designated lift points.

END OF SECTION 01 60 00

SECTION 01 63 00

SUBSTITUTIONS AND PRODUCT OPTIONS

PART 1 - GENERAL

1.01 WORK INCLUDES

- A. Base all bids on providing all products exactly as specified.
- B. For products specified only by reference or performance standards, select any product which meets or exceeds standards, by any manufacturer, subject to the Owner's approval.
- C. For products specified by naming several products or manufacturers, select any product and manufacturer named.

1.02 RELATED WORK

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions, Special Provisions and all other Divisions of the Project Manual, apply to this Section.

1.03 SUBSTITUTIONS, BIDDER/CONTRACTOR OPTIONS

- A. Prior to Bid Opening: The Owner will consider written requests to amend the bidding documents to add products not specified provided such requests are received at least 10 calendar days prior to bid opening date. Requests received after that time will not be considered. When a request is approved, the Owner will issue an appropriate addendum not less than three (3) calendar days prior to bid opening date.
- B. With Bid: A bidder may propose substitutions with his bid by completing the Product Substitution List in the Bid Form, subject to the provisions stated thereon. The Owner will review Proposed Product Substitution List of low bidder and recommend approval or rejection by the Owner prior to award of contract.
- C. After Award of Contract: No substitutions will be considered after Notice of Award except under one or more of the following conditions:
 - 1. Substitution required for compliance with final interpretations of code requirement or insurance regulations.
 - 2. Unavailability of specified products, through no fault of the Contractor.
 - 3. Subsequent information discloses inability of specified product to perform properly or to fit in designated space.
 - 4. Manufacturer/fabricator refusal to certify or guarantee performance of specified product as specified.
 - 5. When a substitution would be substantially to Owner's best interest.

1.04 SUBSTITUTION REQUIREMENTS

- A. Submit three (3) copies of each request for substitution. Include in request:

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1. Complete data substantiating compliance of proposed substitution with contract documents.
 2. For products:
 - a. Product identification, including manufacturer's name and address.
 - b. Manufacturer's literature:
 - 1) Product description
 - 2) Performance and test data
 - 3) Reference standards
 - c. Samples
 - d. Name and address of similar projects on which product was used and dates of installation.
 3. For construction methods:
 - a. Detailed description of proposed method.
 - b. Drawings illustrating methods.
 4. Itemized comparison of proposed substitution with product or method specified.
 5. Data relating to changes in construction schedule.
 6. Identify:
 - a. Changes or coordination required.
 - b. Other contracts affected.
 7. Accurate cost data on proposed substitution in comparison with product or method specified.
- B. In making request for substitution, bidder/contractor represents:
1. He has personally investigated proposed product or method and determined that it is equal or superior in all respects to that specified.
 2. He will provide the same guarantee for substitution as for product or method specified.
 3. He will coordinate installation of accepted substitutions into the work, making all changes for work to be complete in all respects.
 4. Cost data is complete and includes all related costs under his contract, but excludes:
 - a. Owner's redesign.
 - b. Administrative costs of Owner.
 - c. Costs under separate contracts.
 5. He will pay all additional costs and expenses for Owner and other contractors.
- C. Substitutions will not be considered when:
1. They are indicated or implied on shop drawings or product data submittals without formal request submitted in accordance with this Section.
 2. Acceptance will require substantial revision of contract documents.

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PART 2 – PRODUCTS

(NOT APPLICABLE)

PART 3 – EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 63 00

**SECTION 01 70 00
PROJECT CLOSEOUT**

PART 1 - GENERAL

1.01 WORK INCLUDES

- A. Substantial completion, final completion, closeout submittals, and application for final payment.
- B. This Section specifies administrative and procedural requirements for project closeout, including but not limited to:
 - 1. Inspection procedures.
 - 2. Project record document submittal.
 - 3. Operating and maintenance manual submittal.
 - 4. Submittal of warranties.
 - 5. Final cleaning.
 - 6. Final payment.

1.02 RELATED WORK

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 SUBSTANTIAL COMPLETION

- A. When the Contractor considers the work substantially complete, Contractor shall submit written declaration to the Owner that the work, or designated portion thereof, is substantially complete. Include list of items to be completed or corrected.
- B. Owner and Contractor will make an inspection within seven days after receipt of certification.
- C. Should the Owner consider that the work is substantially complete:
 - 1. The Owner will prepare and issue a Certificate of Substantial Completion, containing:
 - a. Date of Substantial Completion.
 - b. Punch list of items to be completed or corrected.
 - c. The time within which Contractor shall complete or correct work of listed items. All punch list items must be completed within 30 days of substantial completion.
 - d. Date and time Owner will assume possession of work or designated portion thereof.
 - e. Responsibilities of Owner and Contractor for:
 - (1.) Insurance
 - (2.) Utilities
 - (3.) Operation of mechanical, electrical and other systems.
 - (4.) Maintenance and cleaning.
 - (5.) Security

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f. Signatures of Owner and Contractor

D. Should the Owner consider that work is not substantially completed:

1. The Owner shall immediately notify Contractor, in writing, stating reasons.
2. The Contractor shall complete work and send a second written notice to Owner, certifying that project, or designated portion of project, is substantially complete.
3. The Owner will re-inspect work.

1.04 FINAL INSPECTION

A. When the Contractor considers the work complete, the Contractor shall submit written declaration to the Owner that the work is complete. Contractor shall submit written certification that:

1. Contract documents have been reviewed.
2. Project has been inspected for compliance with contract.
3. Work has been completed in accord with contract.
4. Equipment and systems have been tested in the Owner's presence and are operational.
5. Project is completed, ready for final inspection.

B. The Owner will make final inspection within seven days after receipt of certification.

C. Should the Owner consider that work is finally complete in accord with Contract Document requirements, he shall request contractor to make project closeout submittals.

D. Should the Owner consider that work is not finally complete:

1. The Owner shall notify the Contractor, in writing, stating reasons.
2. The Contractor shall take immediate steps to remedy the stated deficiencies, and send second written notice to the Owner certifying that the work is complete.
3. The Owner will re-inspect work.

1.06 CLOSEOUT SUBMITTALS

A. Project Record Documents: In accordance with requirements of SECTION 01 72 00 - PROJECT RECORD DOCUMENTS.

B. Deliver evidence of compliance with requirements of governing authorities.

C. Deliver Certificate of Insurance for products and completed operations. Certificate shall include a evidence that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 days prior notice has been given to the Contractor. Contractor shall include a written statement that Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents.

D. Evidence of payments, release of liens

1. Consent of Surety to Final Payment.
2. Other data establishing payment or satisfaction of obligations including receipts, Contractor's releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and form as required by the City.

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3. Separate releases of waivers of liens for subcontractors, suppliers and others with lien rights against property of Owner together with list of those parties.
4. Paid utility bills, if any.
5. An affidavit that payrolls, bills for materials and equipment and other indebtedness connected to the work for which the City or the City's property might be responsible or encumbered (less any amounts withheld by City) have been paid or otherwise satisfied.

1.07 INSTRUCTION

- A. Instruct Owner's personnel in operation of all systems, mechanical, electrical and other equipment.

1.08 FINAL ADJUSTMENT OF ACCOUNTS

- A. Submit final statement of accounting to Owner.
- B. Statement shall reflect all adjustments.
 1. Original contract sum.
 2. Additions and deductions resulting from:
 - a. Previous change orders.
 - b. Cash allowances.
 - c. Unit prices.
 - d. Other adjustments.
 - e. Deductions for uncorrected work.
 - f. Deductions for re-inspection payments.
 3. Total contract sum, as adjusted.
 4. Previous payments.
 5. Sum remaining due.
- C. The Owner will prepare final change order, reflecting approved adjustments to contract sum not previously made by change orders.

1.09 FINAL APPLICATION FOR PAYMENT

- A. Contractor shall submit final application in accord with requirements of Conditions of Contract.

1.10 FINAL CERTIFICATE FOR PAYMENT

- A. The Owner will issue final certificate in accord with provisions of Conditions of contract.
- B. Should final completion be materially delayed through no fault of the Contractor, the Owner may issue a Semi-Final Certificate of Payment, in accord with provisions of Conditions of Contract.

PART 2 – PRODUCTS
(NOT APPLICABLE)

PART 3 – EXECUTION
(NOT APPLICABLE)

END OF SECTION 01 70 00

SECTION 01 71 00

CLEANING

PART 1 - GENERAL

1.01 WORK INCLUDES

- A. Contractor shall maintain premises and public properties free from accumulations of waste, debris, and rubbish, caused by construction operations.
- B. At completion of work, Contractor shall remove waste materials, rubbish, tools, equipment, machinery and surplus materials, clean all sight-exposed surfaces and leave project clean and ready for occupancy.

1.02 RELATED WORK

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 SAFETY REQUIREMENTS

- A. Standards: Maintain project in accord with following safety and insurance standards.
 - 1. Occupational Safety and Health Administration (OSHA).
- B. Hazards Control:
 - 1. Store volatile wastes in covered metal containers and remove from premises daily.
 - 2. Prevent accumulation of wastes which create hazardous conditions.
 - 3. Provide adequate ventilation during use of volatile or noxious substances.
- C. Conduct cleaning and disposal operations to comply with Federal, State and local ordinances and anti-pollution laws.
 - 1. Do not burn or bury debris, rubbish or other waste materials on project site.
 - 2. Do not dispose of volatile wastes such as mineral spirits, oil or paint thinner in storm or sanitary drains.
 - 3. Do not dispose of wastes into streams or waterways.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Select and use all cleaning materials and equipment with care to avoid scratching, marring, defacing, staining or discoloring surfaces cleaned.
- B. Use only cleaning materials recommended by manufacturer of surface to be cleaned.
- C. Use cleaning materials only on surfaces recommended by cleaning material manufacturer.

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PART 3 - EXECUTION

3.01 DURING CONSTRUCTION

- A. Execute cleaning to ensure that grounds and public properties are maintained free from accumulations of waste materials and rubbish.
- B. Wet down materials and rubbish to lay dust and to prevent blowing dust.
- C. At reasonable intervals during progress of work, clean site and public properties, and dispose of waste materials, debris and rubbish.
- D. Provide on-site metal containers for collection of waste materials, debris and rubbish.
- E. Remove waste materials, debris and rubbish from site and legally dispose of at public or private dumping areas off Owner's property.
- F. Handle waste materials in a controlled manner with as few handlings as possible; do not drop or throw materials from heights.
- G. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly painted surfaces.

3.02 FINAL CLEANING

- A. General: Provide final cleaning operations when indicated. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit of Work to the condition expected from a commercial building cleaning and maintenance program. Comply with manufacturer's instructions.
- B. In preparation for substantial completion or occupancy, conduct final inspection of sight-exposed interior and exterior surfaces, and of concealed spaces.
- C. Clean the Project site, yard and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste materials, litter and foreign substances. Sweep paved areas broom clean. Remove petro-chemical spills, stains and other foreign deposits. Rake grounds that are neither planted nor paved, to a smooth even-textured surface.
 - 1. Remove tools, construction equipment, machinery and surplus material from the site.
 - 2. Clean exposed exterior hard-surfaced finishes to a dirt-free condition, free of stains, films and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - 3. Remove debris and surface dust from limited access spaces.
 - 4. Remove labels that are not permanent labels.
 - 5. Touch-up and otherwise repair and restore marred exposed finishes and surfaces. Replace finishes and surfaces that can not be satisfactorily repaired or restored, or that show evidence of repair or restoration. Do not paint over "UL" and similar labels, including mechanical and electrical name plates.
 - 6. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 - 7. Leave the Project clean and ready for occupancy.

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- E. Repair, patch and touch up marred surfaces to specified finish, to match adjacent surfaces.
- F. Broom clean paved surfaces; rake clean other surfaces on grounds.
- G. Maintain cleaning until project, or designated portion thereof, is occupied by Owner.

END OF SECTION 01 71 00

SECTION 01 72 00

PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.01 WORK INCLUDES

- A. Maintenance of Documents
- B. Contractor shall:
 - 1. At project site, maintain one (1) copy of:
 - (a.) Contract drawings.
 - (b.) Project Manual.
 - (c.) Interpretations and supplemental instructions.
 - (d.) Addenda.
 - (e.) Reviewed, approved shop drawings and product data.
 - (f.) Other modifications to contract.
 - (g.) Field test records.
 - (h.) All schedules.
 - (i.) Correspondence file.
 - (j.) Change Orders
 - 2. Provide files and racks for document storage.
 - 3. File documents in format in accord with Project Manual Table of Contents.
 - 4. Maintain documents in clean, dry, legible condition.
 - 5. Do not use record documents for field construction purposes.
 - 6. Make documents available at all times for inspection by Owner.
 - 7. Furnish one (1) additional as-built record set of contract documents at the completion of the project. This set is not to be the set kept and updated periodically at the job site, but a clean set free of extraneous markings, notations, and erasures showing on a record of final conditions. Provide as-built record set in both PDF and AutoCAD formats.

1.02 RELATED REQUIREMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 MARKING DEVICES

- A. Provide ballpoint pens, red color.

1.04 RECORDING

- A. Label each document "PROJECT RECORD DOCUMENTS" in 2" high printed letters.
- B. Keep record documents current, updated not less often than monthly.
- C. Do not permanently conceal any work until specified information has been recorded.

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- D. Contract drawings: Legibly mark to record actual construction:
 - 1. Depths of various elements of foundation in relation to adjacent ground elevations.
 - 2. Horizontal and vertical location of underground utilities and appurtenances referenced to permanent surface improvements.
 - 3. Location of internal utilities and appurtenances concealed in construction referenced to visible and accessible features of structure.
 - 4. Field changes of dimension and detail.
 - 5. Changes made by change order.
 - 6. Details not on original contract drawings.
- E. Specifications and addenda: Legibly mark-up each section to record:
 - 1. Manufacturer, trade name, catalog number, and supplier of each product and item of equipment actually installed.
 - 2. Changes made by change order or field order.
 - 3. Other matters not originally specified.
- F. Shop drawings: Maintain as record documents; legibly annotate drawings to record changes made after review.

1.05 SUBMITTAL

- A. At completion of project, deliver record documents to Owner.
- B. Accompany submittal with transmittal letter, in duplicate, containing:
 - 1. Date.
 - 2. Project title and number.
 - 3. Contractor's name and address.
 - 4. Title and number of each record document.
 - 5. Certification that each document submitted is complete and accurate.
 - 6. Signature of contractor, or his authorized representative.

PART 2 - PRODUCTS

(NOT APPLICABLE)

PART 3 - EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 72 00

SECTION 01 73 00

OPERATING AND MAINTENANCE DATA

PART 1 - GENERAL

1.01 WORK INCLUDES

A. Contractor shall:

1. Compile 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.

1.02 RELATED REQUIREMENTS

- A.** Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 QUALITY ASSURANCE

- A.** Maintenance Manual Preparation: In preparation of Maintenance Manuals, use personnel thoroughly trained and experienced in operation and maintenance of the equipment or system involved.
1. Where written instructions are required, use personnel skilled in technical writing to the extent necessary for communication of essential data.
 2. Where Drawings or diagrams are required, use draftsmen capable of preparing Drawings clearly in an understandable format.
- B.** 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.

1.04 SUBMITTALS

- A.** Form: Manufacturer's standard product or equipment data of same type and form furnished to manufacturer's maintenance personnel.
- B.** Provide sturdy manila or kraft envelope, properly labelled, of sufficient size to contain all submittals.
- C.** 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.
1. After final inspection make corrections or modifications to comply with the Owner's comments. Submit the specified number of copies of each approved manual to the Owner within fifteen days of receipt of the Owner's comments.
- D.** Form of Submittal: Prepare operating and maintenance manuals in the form of an instructional manual for use by the Owner's operating personnel. Organize into suitable

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sets of manageable size. Where possible, assemble instructions for similar equipment into a single binder.

- E. Binders: For each manual, provide heavy-duty, commercial quality, durable 3-ring vinyl covered loose-leaf binders, in thickness necessary to accommodate contents, sized to receive 8-1/2" by 11" paper. Provide a clear plastic sleeve on the spine, to hold labels describing the contents. Provide pockets in the covers to receive folded sheets.
- F. Text Material: Where written material is required as part of the manual use the manufacturer's standard printed material, or if it is not available, specially prepared data, neatly typewritten, on 8-1/2" by 11", 20 pound white bond paper.
- G. Drawings: Where drawings or diagrams are required as part of the manual, provide reinforced punched binder tabs on the drawings and bind in with the text.

1.04 MANUAL CONTENT

- A. Neatly typewritten table of contents for each volume, arranged in systematic order. Follow Project Manual format.
- B. In each manual include information specified in the individual Specification Section, and the following information for each major component of equipment and its controls:
 - 1. General system or equipment description.
 - 2. Design factors and assumptions.
 - 3. Copies of applicable Shop Drawings and Product Data.
 - 4. System or equipment identification, including:
 - a. Name of manufacturer.
 - b. Model number.
 - c. Serial number of each component.
 - 5. Operating instructions.
 - 6. Emergency instructions.
 - 7. Wiring diagrams.
 - 8. Inspection and test procedures.
 - 9. Maintenance procedures and schedules.
 - 10. Precautions against improper use and maintenance.
 - 11. Copies of warranties.
 - 12. Repair instructions including spare parts listing.
 - 13. Sources of required maintenance materials and related services.
 - 14. Manual Index.
 - 15. Contractor, name of responsible principal, address and telephone number
 - 16. List with each product, the name, address and telephone number of:
 - a. Subcontractor
 - b. Maintenance contractor, as appropriate.
 - c. Identify area of responsibility of each
 - d. Local supply source for parts and replacement.
- C. Organize each manual into separate Sections for each piece of related equipment. As a minimum each manual shall contain a title page, a table of contents, copies of Product Data, supplemented by drawings and written text, and copies of each warranty, bond and service Contract issued.

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- D. General Information: Provide a general information Section immediately following the Table of Contents, listing each product included in the manual, identified by product name. Under each product, list the name, address, and telephone number of the Subcontractor or installer, and the maintenance contractor. Clearly delineate the extent of responsibility of each of these entities. In addition, list a local source for replacement parts and equipment.
- E. Product Data: Where manufacturer's standard printed data is included in the manuals, include only sheets that are pertinent to the part or product installed. Mark each sheet to identify each part or product included in the installation. Where more than one item in a tabular format is included, identify each item, using appropriate references from the Contract Documents. Identify data that is applicable to the installation and delete references to information that is not applicable.
- F. Written Text: Where manufacturer's standard printed data is not available, and information is necessary for proper operation and maintenance of equipment or systems, or it is necessary to provide additional information to supplement data included in the manual, prepare written text to provide necessary information. Organize the text in a consistent format under separate headings for different procedures. Where necessary, provide a logical sequence of instruction for each operating or maintenance procedure.
- G. Drawings: Provide specially prepared drawings where necessary to supplement manufacturer's printed data to illustrate the relationship of component parts of equipment or systems, or to provide control or flow diagrams. Coordinate these drawings with information contained in Project Record Drawings to assure correct illustration of the completed installation.
- H. Do not use original Project Record Documents as part of the Operating and Maintenance Manuals.
- I. Warranties, Bonds and Service Contracts: 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.
 - 1. Contractor, name of responsible principal, address and telephone number.
 - 2. List of each product specified to be included, indexed to volume content.
 - 3. List with each product, the name, address and telephone number of:
 - a. Subcontractor.
 - b. Maintenance contractor, as appropriate.
 - c. Identify area of responsibility of each.
 - d. Local supply source for parts and replacement.
- J. Product Data:
 - 1. Include only sheets pertinent to specific product.
 - 2. Annotate each sheet to:
 - a. Clearly identify specific product or part installed.
 - b. Clearly identify data applicable to installation.
 - c. Delete references to inapplicable installation.
- K. Drawings:

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1. Supplement product data with drawings to clearly illustrate relationship of component parts of equipment and systems and control and flow diagrams.
 2. Coordinate drawings with information in Product Record Documents to assure correct illustration of completed installation.
 3. Do not use Project Record Documents as maintenance drawings.
- L. Written text to supplement product data for particular installation:
1. Organize in consistent format under separate headings for different procedures.
 2. Provide logical sequence of instructions for each procedure.
- M. Copy of each warranty, bond and service contract issued.
1. Provide information sheet for Owner personnel. Give:
 - a. Proper procedures in event of failure.
 - b. Instances which might affect validity of warranties or bonds.

1.05 MANUAL FOR MATERIALS AND FINISHES

- A. Submit two (2) copies of complete manual in final form.
- B. Refer to individual Specification Sections for additional requirements on care and maintenance of materials and finishes.
- C. Content for products, applied materials and finishes:
1. Manufacturer's data, giving full information on products.
 - a. Catalog number, size, composition.
 - b. Color and texture designations.
 - c. Information for re-ordering special-manufactured products.
 2. 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.
- D. 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.
- E. Manufacturer's Data: Provide manufacturer's data giving detailed information, including the following, as applicable:
1. Applicable standards.
 2. Chemical composition.
 3. Installation details.
 4. Inspection procedures.
 5. Maintenance information.
 6. Repair procedures.

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PART 2 - PRODUCTS

(NOT APPLICABLE)

PART 3 - EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 73 00

**SECTION 01 74 00
WARRANTIES AND BONDS**

PART 1 - GENERAL

1.01 SUMMARY

- 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.
 - 1. Warranties for the Work and products and installations of each Contractor shall be one (1) year unless specified otherwise on the Drawings or in the individual Sections of Divisions 2 through 16.
- B. Disclaimers and Limitations: 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.

1.02 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and all other Divisions of the Project Manual, apply to this Section.

1.03 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 requires 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 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.
 - 1. 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

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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.

1.04 SUBMITTALS

- A. Submit written warranties to the Owner prior to the date certified for Substantial Completion. If the Owner'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.
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 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.
1. 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.
 2. 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.
 3. 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.

**PART 2 - PRODUCTS
(NOT APPLICABLE)**

**PART 3 - EXECUTION
(NOT APPLICABLE)**

END OF SECTION 01 74 00

SECTION 02 06 40

CONTAMINATED SOIL REMOVAL AND DISPOSAL

PART 1 - GENERAL

1.01 SUMMARY

- A. Related Documents: all terms and conditions of the Contract apply to this section.
- B. Work included: this specification is for the permitting, excavation, loading, hauling and manifesting of any contaminated soil present on site. The Contractor shall perform the work under this section in accordance with all local, county, City of Evanston, IEPA, USEPA, OSFM and OSHA regulations and shall perform the following:
 - 1. Obtain a waste stream authorization for the special waste disposal at an approved landfill and/or treatment facility.
 - 2. Prepare manifest forms prior to starting any excavation activities.
 - 3. Excavate special waste to the extent outlined in the specifications and contract documents.
 - 4. Stockpile contaminated soil on site prior to disposal as required by applicable regulations.
 - 5. Load contaminated soil into licensed special waste trucks and dispose of at the approved landfill/treatment facility.
 - 6. Perform ambient air monitoring for the above activities as required by applicable regulations.
- C. All existing soils at James Park shall be classified as special non-hazardous waste. Contractors shall include pricing for any and all soils that must be removed from this site during the course of construction in accordance with this specification, IDOT Standard Specification Section 669 and applicable law.

1.02 DEFINITIONS

- A. IDOT: Illinois Department of Transportation
- B. IEPA: Illinois Environmental Protection Agency
- C. Hazardous Waste: means any waste that poses a substantial danger immediately or over a period of time to humans, plants or animals. A waste is classified as hazardous if it exhibits any of the following characteristics: 1) ignitability, 2) corrosivity, 3) reactivity, or 4) toxicity and as defined in Section 721.103 of Title 35 of the Illinois Administrative Code.
- D. Manifest: means the form provided or prescribed by the IEPA and used for identifying name, quality, routing and destination of special waste during its transportation from point of generation to the point of disposal, treatment or storage.
- E. MSDS: means Material Safety Data Sheet, required by OSHA for any substances which are toxic, caustic or otherwise hazardous to workers.
- F. Remediation Area: means any area on site where contaminated soil is present.
- G. Special Waste: means any industrial process waste or pollution control waste, except as may be determined pursuant to Section 22.9 of the Illinois Environmental Protection Act.

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1.03 SUBMITTALS

- A. The Contractor shall provide the Owner with copies of the following submittals:
 - 1. Contractor's Site Health and Safety Plan, IDOT Section 669
 - 2. Contractor's Site Contamination Operation Plan, IDOT Section 669
 - 3. Contractor's Erosion Control Plan, IDOT Section 669
 - 4. Proof of OSHA training in compliance with the Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120) for applicable workers.
 - 5. Operating licenses and permits for each proposed transporter. Details of haul routes from site to the disposal facilities.
 - 6. Copies of all daily reports, State certified transport manifests and weight tickets must be submitted to the Owner with ten (10) working days of off-site disposal.
 - 7. Air sampling data collected during the course of the Work, including OSHA compliance monitoring.
- B. Submittal Review: review of submittals or any comments made do not relieve the Contractor from compliance with the requirements of the drawings and specifications. The purpose of this check is to review for general conformance with the design concept of the project and general compliance with the information given in the contract documents. The Contractor is responsible for confirming and correlating all quantities and dimensions, electing techniques of construction, coordinating the Work and performing the Work in a safe and satisfactory manner.

1.04 NOTIFICATIONS

- A. The Contractor shall notify the Owner no less than forty-eight (48) business hours prior to excavating, loading and transporting contaminated soils.

1.05 RECORD KEEPING

- A. The Contractor shall provide the Owner with documentation of labor, equipment, materials and laboratory analysis used for the removal and disposal of contaminated soils.

PART 2 - PRODUCTS

2.01 REMOVAL AND DISPOSAL OF CONTAMINATED SOILS

- A. The Contractor shall furnish all necessary means, products, tools and equipment required to fulfill the scope of work described in the Specifications and Drawings for this Project.

PART 3 - EXECUTION

3.01 PERMITTING

- A. The Contractor shall obtain a waste stream authorization from a licensed landfill/disposal facility. Contractor shall submit copies of the landfill/treatment facility waste stream authorization form to the Owner for review and approval and securing Owner signature.
- B. Haulers for transportation of non-hazardous special waste shall hold a current valid hauling permit pursuant to Title 35 of the Illinois Administrative Code (IAC) Parts 723 and 809, respectively.

3.02 MATERIAL SAMPLING AND MONITORING

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- A. The Contractor shall collect sufficient amounts of representative soil from the Remediation Area for analysis by an independent laboratory to obtain a waste stream authorization from the landfill/treatment facility. The Contractor is responsible for acquisition of the required disposal permits and payment of all landfill fees.
- B. The Contractor shall submit the soil samples to the laboratory and pay for the cost of analyzing the constituents required by the disposal facility.
- C. The Contractor shall immediately notify the Owner if contaminated materials are encountered on-site.
- D. The Contractor shall perform and pay for ambient air monitoring as required by IDOT and to evaluate the appropriate level of worker personal protective equipment. Air monitoring shall be performed as often as required to ensure the safety of both workers and the public.
- E. All material sampling and monitoring activities shall be performed by an environmental engineer licensed in the State of Illinois and shall meet or exceed all regulatory standards and/or requirements. The contractor shall include all costs for these services in their base bid price.

3.03 EXCAVATION

- A. If contaminated soil is identified on-site, the Contractor shall perform the following:
 - 1. In mass grading and/or paved areas, the Contractor shall excavate contaminated soil to the depth required for the construction of final grades, paved surfaces and foundations.
 - 2. In the proposed new underground utility areas, the Contractor shall excavate contaminated soil to the extent required to install the new underground utility.
- B. Excavation shall be performed in accordance with OSHA requirements and guidelines.
- C. All workers in the vicinity of the contaminated soil area must have completed 40-hours Hazardous Waste Site Workers OSHA Training in accordance with 29 CFR 1910.120.

3.04 DECONTAMINATION

- A. The Contractor shall remove soil, dust, rocks, etc from the exterior of trucks, trailers or other heavy equipment leaving the site.
- B. The Contractor shall clean the tractor-trailers or trucks which are loaded with materials for disposal by removing clinging soil and rocks from the exterior of the tractor-trailers or trucks.
- C. The Contractor shall not allow equipment or trucks to leave the site with water leaking or mud dripping or caked to the equipment or trucks.
- D. The Contractor shall clean excavation equipment (tools, shovels, backhoes, etc) with a jet washer or steam cleaner after completing excavation work in the contaminated soil areas and prior to start working in the clean soil areas.

3.05 STOCKPILING

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- A. The Contractor may stockpile contaminated soil on site for a maximum of five (5) working days. The Contractor shall be responsible for keeping the contaminated soil separated from the clean soil. If the contaminated soil comes in contact with the clean soil, the Contractor shall dispose of the clean soil as contaminated soil at his own expense.
- B. Stockpile contaminated soil on 6-mil polyethylene visqueen. The location of the stockpile area shall be coordinated with the Owner. The Contractor shall keep contaminated soils covered with 6-mil polyethylene visqueen until subsequent loading, transportation and disposal. Provide a 12" to 18" berm around the stockpile(s).

3.06 LOADING

- A. The contractor shall load contaminated soils directly from the Remediation Area or from temporary stockpiles into hauling trucks for subsequent transportation and disposal.

3.07 TRANSPORTATION

- A. Contaminated soil shall be transported by a licensed special waste hauler in the State of Illinois.
- B. The Contractor shall provide, complete and sign manifests required for transportation and disposal of the contaminated soils.

3.08 DISPOSAL

- A. The Contractor shall provide copies of weight tickets from the landfill to the Owner.
- B. The Contractor shall provide copies of completed manifests executed by the transporter and the landfill to the Owner.

3.09 BACKFILL

- A. Topsoil and Fill Material Data
 - 1. The Contractor shall provide to the Owner the location(s) and name(s) of topsoil and clean fill sources from which backfill materials are to be obtained for the project, approximate quantities obtained at each site, depth at which soil was taken and indicate whether crops had grown on site(s).
- B. Soil Testing
 - 1. The Contractor shall submit the following information to the Owner for every source of backfill material:
 - a. A report defining the current and historic uses of the clean soil source material to determine if the potential for any source contamination is present.
 - b. Laboratory analysis of in-situ soil to be used on site to determine that all constituents meet the applicable objectives. The source location should be surveyed and sampled at a frequency of one (1) sample per 1,000 cubic yards if there is a known or suspected source of contamination. The analyses shall be performed to the acceptable method detection limits for each chemical. At a minimum, the source soil should be sampled for the Target Compound List, found in Title 35 Illinois Administrative Code 740, Appendix A, using the applicable EPA SW 846

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methods. If historical records indicated that potential sources of contamination do not exist, one (1) sample will be collected and analyzed to characterize the clean soil source material.

- c. A summary of the sample collection and data analysis. The report should include a tabulation of sampling results compared to applicable Tier 1 remediation objectives for residential properties.

- C. The Contractor shall not backfill excavation areas without approval of the Owner. If the Contractor backfills the excavation area without obtaining approval from the Owner, the backfill materials shall be excavated, if required, at the Contractor's expense.

3.10 DUST CONTROL

- A. The Contractor shall control dust by all necessary means, including but not limited to covering trucks, stockpiles and open materials, watering haul roads, sweeping paved roads and limiting the speed of all on-site vehicles.

3.11 QUALITY CONTROL

- A. Visual inspection and damage repairs shall be made daily by the Contractor and/or as directed by the Owner or designated representative to assure that erosion, drainage and containment control measures are functioning properly.

END OF SECTION 02 06 40

SECTION 02 41 13

SITE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes site demolition as indicated on the drawings and required for installation of new work required for completion of the project and as specified.

1.2 DEFINITIONS

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

1.3 SUBMITTALS

- A. Schedule of Site Demolition Activities: Indicate the following:
 - 1. For purposes of Owner's information only, sequence of site 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.
 - 4. Locations of proposed dust- and noise-control temporary partitions and means of egress.
- B. Predemolition Photographs or Videotapes: Show existing conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by site demolition operations.

1.4 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.
- B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning site demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Standards: Comply with ANSI A10.6 and NFPA 241.

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1.5 PROJECT CONDITIONS

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Notify Owner of discrepancies between existing conditions and Drawings before proceeding with site demolition.
- C. Hazardous Materials: Start operation under this section only after hazardous materials have been removed in accordance with related sections.
 - 1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Owner.
- D. Storage or sale of removed items or materials on-site is not permitted.
- E. Utility Service: Maintain existing utilities required to remain in service and protect them against damage during site demolition operations.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of site demolition required.
- C. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs and preconstruction videotapes.
- D. Perform surveys as the Work progresses to detect hazards resulting from site demolition activities.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems: Maintain services/systems indicated to remain and protect them against damage during site demolition operations.
- B. Service/System Requirements: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be demolished.

3.3 PREPARATION

- A. Site Access and Temporary Controls: Conduct site demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

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3.4 SITE 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:
- B. 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 designated by Owner.
 - 5. Protect items from damage during transport and storage.
- C. Removed and Reinstalled Items:
 - 1. Clean and repair items to functional condition adequate for intended reuse. Paint equipment to match new equipment.
 - 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.
- D. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during site demolition. Items may be removed to a suitable, protected storage location during site demolition and cleaned and reinstalled in their original locations after site demolition operations are complete.

3.5 SITE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals, using power-driven saw, then remove concrete between saw cuts.
- B. Concrete Slabs-on-Grade: Saw-cut perimeter of area to be demolished, then break up and remove.

3.6 MANAGEMENT OF DEMOLISHED MATERIALS

- A. Separate recyclable demolished materials from other demolished materials to the maximum extent possible. Separate recyclable materials by type.
 - 1. Provide containers or other storage method for controlling recyclable materials until they are removed from Project site.
 - 2. Stockpile processed material on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 - 3. Stockpile materials away from demolition area. Do not store within drip line of remaining trees.
 - 4. Store components off the ground and protect from the weather.
 - 5. Transport demolished materials off Owner's property and legally dispose of all materials in accordance with authorities having jurisdiction.
- B. Remove from the site and legally dispose of non-recyclable debris, rubbish, and other materials resulting from demolition operations in accordance with authorities having jurisdiction.

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C. Burning: Do not burn demolished materials.

3.7 CLEANING

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

END OF SECTION 02 41 13

**SECTION 03 30 00
CAST-IN-PLACE-CONCRETE**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Concrete foundation walls.
 - 2. Concrete reinforcement.
 - 3. Joint devices associated with concrete work.
 - 4. Concrete curing.

1.3 REFERENCE STANDARDS

- A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials; 2010 (Reapproved 2015).
- B. ACI 211.1 - Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete; 1991 (Reapproved 2009).
- C. ACI 211.2 Standard Practice for Selecting Proportions for Structural Lightweight Concrete; 1998 (Reapproved 2004).
- D. ACI 301 Specifications for Structural Concrete; 2016.
- E. ACI 302.1R - Guide to Concrete Floor and Slab Construction; 2015.
- F. ACI 304R - Guide for Measuring, Mixing, Transporting, and Placing Concrete; 2000 (Reapproved 2009).
- G. ACI 305.1 - Specification for Hot Weather Concreting; 2014.
- H. ACI 306.1 - Standard Specification for Cold Weather Concreting; 1998.
- I. ACI 308.1 - Specification for Curing Concrete; 2011.
- J. ACI 318 - Building Code Requirements for Structural Concrete and Commentary; 2014 (Errata 2017).
- K. ACI 347R - Guide to Formwork for Concrete; 2014.
- L. ACI SP-66 6 ACI Detailing Manual; 2004.

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- M. ASTM A615/A625M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2016.
- N. ASTM A775/A775M - Standard Specification for Epoxy-Coated Steel Reinforcing Bars; 2017.
- O. ASTM A884/A884M - Standard Specification for Epoxy-Coated Steel Wire and Welded Wire Reinforcement; 2014.
- P. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2017.
- Q. ASTM C172/C172M - Standard Practice for Sampling Freshly Mixed Concrete; 2014a.
- R. ASTM C31/C31M - Standard Practice for Making and Curing Concrete Test Specimens in the Field; 2017.
- S. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2017b.
- T. ASTM C42/C42M - Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete; 2016.
- U. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete; 2017a.
- V. ASTM C143/C143M - Standard Test Method for Slump of Hydraulic-Cement Concrete; 2015a.
- W. ASTM C150/C150M - Standard Specification for Portland Cement; 2017.
- X. ASTM C171 - Standard Specification for Sheet Materials for Curing Concrete; 2016.
- Y. ASTM C173/C173M - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method; 2016.
- Z. ASTM C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete; 2011.
- AA. AASTM C330/C330M - Standard Specification for Lightweight Aggregates for Structural Concrete; 2017a.
- BB. AASTM C494/C494M - Standard Specification for Chemical Admixtures for Concrete; 2017.
- CC. AASTM C618 - Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete; 2015.
- DD. AASTM C685/C685M - Standard Specification for Concrete Made by Volumetric Batching and Continuous Mixing; 2014.
- EE. AASTM C979/C979M - Standard Specification for Pigments for Integrally Colored Concrete; 2016.
- FF. AASTM C1059/C1059M - Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete; 2013.

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- GG. AASTM C1116/C1116M - Standard Specification for Fiber-Reinforced Concrete; 2010a (Reapproved 2015).
- HH. AASTM D1752 - Standard Specification for Preformed Sponge Rubber Cork and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction; 2004a (Reapproved 2013).
- II. AASTM D3963/D3963M - Standard Specification for Fabrication and Jobsite Handling of Epoxy-Coated Steel Reinforcing Bars; 2015.
- JJ. AASTM E1155 - Standard Test Method for Determining F(F) Floor Flatness and F(L) Floor Levelness Numbers; 2014.
- KK. AASTM E1155M - Standard Test Method for Determining F(F) Floor Flatness and F(L) Floor Levelness Numbers (Metric); 2014.
- LL. AASTM E1643 - Standard Practice for Selection, Design, Installation and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs; 2011 (Reapproved 2017).
- MM. ACRSI (DA4) - Manual of Standard Practice; 2009.
- NN. ANSF 61 - Drinking Water System Components - Health Effects; 2017.
- OO. ANSF 372 - Drinking Water System Components - Lead Content; 2016.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Conduct a preinstallation meeting at least one week prior to the start of the work of this section.
 - 1. Ensure required submittals have been provided with sufficient time for review prior to scheduling the Preinstallation Meeting.
 - 2. Review the detailed requirements for preparing the concrete design mixes and to review the drawings and specifications for this work.
 - 3. Require attendance by all affected installers, including but not limited to:
 - a. Contractor's Superintendent
 - b. Laboratory responsible for the concrete design mix.
 - c. Laboratory responsible for the field quality control.
 - d. Concrete subcontractor
 - e. Other affected Subcontractors
 - f. Owner
 - 4. Record minutes and distribute copies within 5 days after meeting to participants as well as those affected by decisions made.

1.5 SUBMITTALS

- A. See Section 01 30 00 for submittal procedures.

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- B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
- C. Mix Design: Submit proposed concrete mix design.
 - 1. Indicate proposed mix design complies with requirements of ACI 301, Section 4 - Concrete Mixtures.
- D. Steel Reinforcement Shop Drawings: Submit details of fabrication, bending, and placement, prepared according to ACI SP-66. Include material, grade, bar schedules, stirrup spacing, bent bar diagrams, arrangement, and supports of concrete reinforcement. Include special reinforcement required for openings through concrete structures.
- E. Formwork Shop Drawings: Indicate pertinent dimensions, materials, bracing, and arrangement of joints and ties.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing work of the type specified and with minimum three years of documented experience and a record of successful in-service performance.
- B. Manufacturer Qualifications: Company specializing in manufacturing ready-mixed concrete products complying with ASTM C94/C94M.
- C. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.
- D. Source Limitations: Obtain each type or class of cementitious materials of the same brand from the same manufacturer's plant, each aggregate from one source, and each admixture from the same manufacturer.
- E. Perform work of this section in accordance with ACI 301 and ACI 318.
- F. Comply with ACI 305.1 when concreting during hot weather.
- G. Comply with ACI 306.1 when concreting during cold weather.

PART 2 - PRODUCTS

2.1 FORMWORK

- A. Formwork Design and Construction: Comply with guidelines of ACI 347R to provide formwork that will produce concrete complying with tolerances of ACI 117.
 - 1. Provide concrete forms, accessories, shoring, and bracing as required to accomplish cast-in-place concrete work.
 - 2. Design and construct to provide resultant concrete that conforms to design with respect to shape, lines, and dimensions.
 - 3. Chamfer outside corners of beams, joists, columns, and walls.

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- B. Form Materials: Contractor's choice of standard products with sufficient strength to withstand hydrostatic head without distortion in excess of permitted tolerances.
 - 1. Form Facing for Exposed Finish Concrete: Contractor's choice of materials that will provide smooth, stain-free final appearance.
 - a. Medium-density overlay, Class 1, or better, mill-release agent treated and edge sealed.
 - b. Structural 1, B-B, or better, mill oiled and edge sealed.
 - c. B-B (Concrete Form), Class 1, or better, mill oiled and edge sealed.
 - 2. Form Coating: Release agent that will not adversely affect concrete or interfere with application of coatings.
 - 3. Form Ties: Cone snap type that will leave no metal within 1-1/2 inches of concrete surface.
- C. Form Ties: Removable or snap-off type, galvanized metal or plastic, fixed length, cone type, with waterproofing washer, free of defects that could leave holes larger than 1 inch in concrete surface.
- D. Form Release Agent: Capable of releasing forms from hardened concrete without staining or discoloring concrete or forming bugholes and other surface defects, compatible with concrete and form materials, and not requiring removal for satisfactory bonding of coatings to be applied.
 - 1. Provide form-release agent with rust inhibitor for steel form-facing materials.

2.2 REINFORCEMENT MATERIALS

- A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi).
 - 1. Type: Deformed billet-steel bars.
 - 2. Finish: Unfinished, unless otherwise indicated.
 - 3. Finish: Epoxy coated in accordance with ASTM A775/A775M where indicated.
- B. Steel Welded Wire Reinforcement (WWR): Class A epoxy coated, deformed type, ASTM A884/A884M.
 - 1. Form: Flat Sheets.
 - 2. WWR Style: As indicated on drawings.
- C. Steel Welded Wire Reinforcement (WWR): Plain type, ASTM A1064/A1064M.
 - 1. Form: Flat Sheets.
 - 2. WWR Style: As indicated on drawings.
- D. Reinforcement Accessories:
 - 1. Tie Wire: Annealed, minimum 16 gage, 0.0508 inch.
 - 2. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for adequate support of reinforcement during concrete placement.
 - 3. Provide stainless steel, galvanized, plastic, or plastic coated steel components for placement within 1-1/2 inches of weathering surfaces.

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4. Epoxy Repair Coating: Liquid, two-part, epoxy repair coating; compatible with epoxy coating on reinforcement and complying with ASTM A775/A775M.

2.3 CONCRETE MATERIALS

- A. Cement: ASTM C150/C150M, Type I - Normal Portland type. Type III cement may be used in lieu of Type I at Contractor's option, when acceptable to the Architect/Engineer of Record.
 1. Acquire cement for entire project from same source.
- B. Fine and Coarse Aggregates: ASTM C33/C33M.
 1. Acquire aggregates for entire project from same source.
 2. Class: Severe weathering region, but not less than 3S.
 3. Nominal Maximum Aggregate Size: 3/4 inch, unless otherwise indicated.
- C. Lightweight Aggregate: ASTM C330/C330M.
 1. Nominal Maximum Aggregate Size: 3/4 inch, unless otherwise indicated.
- D. Fly Ash: ASTM C618, Class C or F.
- E. Water: Potable: ASTM C94/C94M
- F. Structural Fiber Reinforcement: ASTM C1116/C1116M.
 1. Fiber Type: Carbon Steel Fiber; Type 1, cold drawn wire.
 2. Fiber Length: 1.5 inch, nominal.
 3. Manufacturers:
 - a. Dramix: Bekaert Corporation.
 - b. Zorex; Novocon International, Inc.
 - c. Fibercon; Fibercon International, Inc.
 4. Provide admixtures as recommended by steel fiber manufacturer without increasing specified water-cementitious material ratio.

2.4 ADMIXTURES

- A. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.
- B. Air Entrainment Admixture: ASTM C260/C260M.
- C. High Range Water Reducing Admixture: ASTM C494/C494M Type F.
- D. Water Reducing Admixture: ASTM C494/C494M Type A.

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2.5 BONDING AND JOINTING PRODUCTS

- A. Latex Bonding Agent: Non-redispersable acrylic latex, complying with ASTM C1059/C1059M, Type II.
- B. Self-Expanding Strip Waterstops: Bentonite or other hydrophilic material, complying with NSF 61 and NSF 372.
 - 1. Configuration: Rectangular or trapezoidal strip.
 - 2. Size: As indicated on drawings; in longest lengths practicable.
 - 3. Manufacturers:
 - a. Volclay Waterstop-RX; Colloid Environmental Technologies Co.
 - b. Conseal CS-231; Concrete Sealants Inc.
 - c. Swellseal, Joint; De Neef Construction Chemicals (U.S.) Inc.
 - d. Hydrotite; Greenstreak
 - e. Mirastop; Mirafi Moisture Protection, Div. of Royal Ten Cate (U.S.), Inc
 - f. Adeka Ultra Seal; Mitsubishi International Corporation
 - g. Superstop; Progress Unlimited Inc
- C. Slab Isolation Joint Filler: 1/2 inch thick, height equal to slab thickness, with removable top section that will form 1/2 inch deep sealant pocket after removal.
 - 1. Material: ASTM D1752 cork or self-expanding cork (Type III).

2.6 CURING MATERIALS

- A. Curing Compound, Non-dissipating: Liquid, membrane-forming, clear, non-yellowing acrylic; complying with ASTM C309, Type 1, Class B.
 - 1. Vehicle: Water-based.
- B. Moisture- Retaining Sheet: ASTM C171.
 - 1. Polyethylene film, clear, minimum nominal thickness of 4 mil, 0.004 inch.
 - 2. White- burlap-polyethylene sheet, weighing not less than 3.8 ounces per square yard.
- C. Water: Potable, not detrimental to concrete.

2.7 CONCRETE MIX DESIGN

- A. Proportioning Normal Weight Concrete: Comply with ACI 211.1 recommendations.
- B. Proportioning Structural Lightweight Concrete: Comply with ACI 211.2 recommendations.
 - 1. Replace as much Portland cement as possible with fly ash, ground granulated blast furnace slag, silica fume, or rice hull ash as is consistent with ACI recommendations.
- C. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI 301.
 - 1. For trial mixtures method, employ independent testing agency acceptable to Owner for preparing and reporting proposed mix designs.

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- D. Admixtures: Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended or required by manufacturer.
- E. Fiber Reinforcement: Add to mix at rate recommended by manufacturer, but not more than 25 pounds per cubic yard.
- F. Normal Weight Concrete for Footings and Foundation Walls, and Interior Slab-on-Grade:
 - 1. Compressive Strength, when tested in accordance with ASTM C39/C39M at 28 days: 4,000 pounds per square inch, unless noted otherwise
 - 2. Fly Ash Content: Maximum 25 percent of cementitious materials by weight.
 - 3. Water-Cement Ratio: Maximum 44 percent by weight.
 - 4. Total Air Content: For exterior exposed concrete: 6 percent (plus 1 or minus 1.5 percent), determined in accordance with ASTM C173/C173M. Do not air entrain trowel finished interior floors.
 - 5. Maximum Slump: 4 inches.

2.8 REINFORCEMENT FABRICATION

- A. Fabricate concrete reinforcing in accordance with CRSI (DA4) - Manual of Standard Practice.
- B. Welding of reinforcement is not permitted.
- C. Fabricate and handle epoxy-coated reinforcing in accordance with ASTM D3963/D3963M.
- D. Locate reinforcing splices not indicated on drawings at point of minimum stress.
- E. Unacceptable Materials: Reinforcement with any of the following defects will not be permitted in the Work:
 - 1. Bar lengths, depths or bends exceeding specified fabrication tolerances.
 - 2. Bends or kinks not indicated on the Drawings or final Shop Drawings
 - 3. Bars with reduced cross section due to excessive corrosion or other cause.
 - 4. Bars with damaged corrosion resistive coating (if specified).

2.9 MIXING

- A. On Project Site: Mix in drum type batch mixer, complying with ASTM C685/C685M. Mix each batch not less than 1-1/2 minutes and not more than 5 minutes.
 - 1. Colored Concrete: Add pigments in strict accordance with manufacturer's instructions to achieve consistent color from batch to batch.
 - 2. Fiber Reinforcement: Batch and mix as recommended by manufacturer for specific project conditions.
- B. Transit Mixers: Comply with ASTM C94/C94M, and ASTM C1116/C1116M and furnish batch ticket information.
 - 1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 90 minutes to 75 minutes; when air temperature is above 90 def F, reduce mixing and delivery time to 60 minutes.

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PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify lines, levels, and dimensions before proceeding with work of this section.

3.2 PREPARATION

- A. Formwork: Comply with requirements of ACI 301. Design and fabricate forms to support all applied loads until concrete is cured, and for easy removal without damage to concrete.
- B. Verify that forms are clean and free of rust before applying release agent.
- C. Coordinate placement of embedded items with erection of concrete formwork and placement of form accessories.
- D. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning and applying bonding agent in accordance with bonding agent manufacturer's instructions.
 - 1. Use latex bonding agent only for non-load-bearing applications.
- E. In locations where new concrete is doweled to existing work, drill holes in existing concrete, insert steel dowels and pack solid with non-shrink grout.

3.3 ERECTION OF FORMWORK

- A. Erect formwork, shoring and bracing to achieve design requirements, in accordance with requirements of ACI 301.
- B. Provide bracing to ensure stability of formwork. Shore or strengthen formwork subject to overstressing by construction loads.
- C. Construct formwork to maintain tolerances required by ACI 117, unless otherwise indicated.
- D. Arrange and assemble formwork to permit dismantling and stripping. Do not damage concrete during stripping. Permit removal of remaining principal shores.
- E. Provide formed openings where required for items to be embedded in passing through concrete work.
- F. Align joints and make watertight. Keep form joints to a minimum.
- G. Apply form release agent on formwork in accordance with manufacturer's recommendations.
 - 1. Do not apply form release agent where concrete surfaces will receive special finishes or applied coverings that are affected by agent. Soak inside surfaces of untreated forms with clean water. Keep surfaces coated prior to placement of concrete.

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3.4 INSTALLING REINFORCEMENT AND OTHER EMBEDDED ITEMS

- A. Fabricate and handle epoxy-coated reinforcing in accordance with ASTM D3963/D3963M.
- B. Comply with requirements of ACI 301. Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete coverage required for protection.
- C. Install welded wire reinforcement in maximum possible lengths and offset end laps in both directions. Splice laps with tie wire.
- D. Verify that anchors, seats, plates, reinforcement and other items to be cast into concrete are accurately placed, positioned securely, and will not interfere with concrete placement.
- E. Use epoxy-coated steel wire ties to fasten epoxy-coated reinforcement. Repair cut and damaged epoxy coatings with epoxy repair coating according to ASTM D3963/D3963M.
- F. Install accessories in accordance with manufacturer's instructions, so they are straight, level, and plumb. Ensure items are not disturbed during concrete placement.
- G. Install waterstops in accordance with manufacturer's instructions, so they are continuous without displacing reinforcement.
- H. Provide temporary ports or openings in formwork where required to facilitate cleaning and inspection. Locate openings at bottom of forms to allow flushing water to drain.
- I. Close temporary openings with tight fitting panels, flush with inside face of forms, and neatly fitted so joints will not be apparent in exposed concrete surfaces.

3.5 PLACING CONCRETE

- A. Place concrete in accordance with ACI 304R.
- B. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.
- C. Ensure reinforcement, inserts, waterstops, embedded parts, and formed construction joint devices will not be disturbed during concrete placement.
- D. Place concrete continuously without construction (cold) joints wherever possible; where construction joints are necessary, before next placement prepare joint surface by removing laitance and exposing the sand and sound surface mortar, by sandblasting or high-pressure water jetting.
- E. Finish floors level and flat, unless otherwise indicated, within the tolerances specified below.

3.6 FORM REMOVAL

- A. Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads.
- B. Loosen forms carefully. Do not wedge pry bars, hammers, or tools against finish concrete surfaces scheduled for exposure to view.

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- C. Store removed forms to prevent damage to form materials or to fresh concrete. Discard damaged forms.

3.7 CONCRETE FINISHING

- A. Repair surface defects, including tie holes, immediately after removing formwork.
- B. Unexposed Form Finish: Rub down or chip off fins or other raised areas 1/4 inch or more in height.
- C. Exposed Form Finish: Rub down or chip off and smooth fins or other raised areas 1/4 inch or more in height. Provide finish as follows:
 - 1. Smooth Rubbed Finish: Wet concrete and rub with carborundum brick or other abrasive, not more than 24 hours after form removal.
 - 2. Grout Cleaned Finish: Wet areas to be cleaned and apply grout mixture by brush or spray; scrub immediately to remove excess grout. After drying, rub vigorously with clean burlap, and keep moist for 36 hours.
 - 3. Cork Floated Finish: Immediately after form removal, apply grout with trowel or firm rubber float; compress grout with low-speed grinder, and apply final texture with cork float.
- D. Curbs Provide monolithic finish to curbs by stripping forms while concrete is still green and by steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded.
- E. In areas with floor drains, maintain floor elevation at walls; pitch surfaces uniformly to drains at 1:100 nominal.

3.8 CURING AND PROTECTION

- A. Comply with ACI 308.1. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
- B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
 - 1. Normal concrete: Not less than seven days.
- C. Formed Surfaces: Cure by moist curing with forms in place for full curing period.
- D. Surfaces Not in Contact with Forms:
 - 1. Initial Curing: Start as soon as free water has disappeared and before surface is dry. Keep continuously moist for not less than seven days by water ponding, water-fog spray, or saturated burlap.
 - 2. Final Curing: Begin after initial curing but before surface is dry.
 - a. Moisture- Retaining Sheet: Lap strips not less than 3 inches and seal with waterproof tape or adhesive; secure at edges.

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- b. Curing Compound: Apply in two coats at right angles, using application rate recommended by manufacturer.

3.9 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests, as specified in Section 01 40 00.
- B. Provide free access to concrete operations at project site and cooperate with appointed firm.
- C. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.
- D. Tests of concrete and concrete materials may be performed at any time to ensure conformance with specified requirements.
- E. Testing Services: Testing of composite samples of fresh concrete obtained according to ASTM C172/C172M shall be performed according to the following requirements:
 - 1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mix exceeding 5 cubic yards, but less than 25 cubic yards, plus one set for each additional 50 cubic yards or fraction thereof.
 - a. When frequency of testing will provide fewer than five compressive-strength tests for each concrete mix, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
- F. Slump: ASTM C143/C143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mix. Perform additional tests when concrete consistency appears to change.
- G. Air Content: ASTM C173/C173M for structural lightweight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mix.
- H. Concrete Temperature: ASTM A1064/A1064M; one test hourly when air temperature is 40 deg F (4.4 deg C) and below and when 80 deg F (27 deg C) and above, and one test for each composite sample.
- I. Unit Weight: ASTM C567/C567M, fresh unit weight of structural lightweight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mix.
- J. Compression Test Specimens: ASTM C31/C31M; cast and laboratory cure one set of five standard cylinder specimens for each composite sample.
- K. Compressive--Strength Tests: ASTM C39/C39M
 - 1. Test two specimens at 7 days, two at 28 days and one at 56 days if 28-day compressive strength has not yet been obtained.
 - 2. A compressive-strength test shall be the average compressive strength from two specimens obtained from same composite sample and tested at age indicated.
- L. Strength of each concrete mix will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength, and no

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compressive-strength test value falls below specified compressive strength by more than 500 psi.

- M. Test results shall be reported in writing to Owner, 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 mix proportions and materials, compressive breaking strength, and type of break for both 7-and 28-day tests.
- N. 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 required by Owner. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42/C42M or by other methods as required by Owner.
- O. Detective Work: Concrete work which does not conform to the specified requirements, including strength, tolerances, and finishes, shall be corrected at the Contractor's expense without extension of time. The Contractor shall also be responsible for the cost of corrections to any other work affected by or resulting from corrections to the concrete work.

3.10 DEFECTIVE CONCRETE

- A. Test Results: The testing agency shall report test results in writing to Owner and Contractor within 48 hours of test.
- B. Defective Concrete: Concrete not conforming to required lines, details, dimensions, tolerances or specified requirements.
- C. Repair or replacement of defective concrete will be determined by the Owner. The cost of additional testing shall be borne by Contractor when defective concrete is identified.

END OF SECTION 03 30 00

**SECTION 12 93 00
SITE FURNISHINGS**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Pickleball Nets
- 2. Pickleball Posts
- 3. Rack-Up Systems
- 4. Table
- 5. Windscreens
- 6. Acoustic Panels
- 7. Bicycle racks
- 8. Court Rules Signage
- 9. Court Number Signage
- 10. Court Rack-up Rule Signage

- B. Related Requirements:

- 1. Section 03 30 00 -Cast-in-Place Concrete
- 2. Section 31 22 14 - Earthwork for Sitework

1.3 REFERENCE STANDARDS

- A. ASTM A269/A269M - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service; 2015a.
- B. ASTM A312/A312M - Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes; 2017.
- C. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.

1.4 PRE-INSTALLATION MEETING

- A. Pre-installation Meeting: Conduct meeting at Project Site, Manufacturer's Facility or Fabricator's Shop. Confirm with Owner and Landscape Architect 14 days prior to conference. At a minimum review the following:

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1. Ensure required submittals have been provided with sufficient time for review prior to scheduling the Preinstallation Meeting.
2. Review the detailed requirements for the work of this section and to review the drawings and specifications for this work
3. Require attendance by all affected installers including but not limited to:
 - a. Contractor's superintendent.
 - b. Installer
 - c. Manufacturer/Fabricator Representative
 - d. Other affected Subcontractors
 - e. Architect/Engineer of Record
 - f. Owner Representative
4. Record minutes and distribute copies within 5 days after meeting to participants as well as Landscape Architect, Architect/Engineer of Record, Owner and those affected by decisions made.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 1. Manufacturer's Product Literature and Specification Data.
 2. Manufacturer's written instructions for recommended maintenance practices.
 3. Color and finish samples for verification and selection.
 4. Written manufacturer's warranty.
 5. Product liability insurance certificate with project owner as certificate holder.
 6. MSDS for items in Part 2 "Products."
- B. Samples: For each exposed product and for each color and texture specified.
- C. Samples for Initial Selection: For units with factory-applied finishes.
- D. Samples for Verification: For each type of exposed finish, not less than 6-inch- (152-mm-) long linear components and 4-inch- (102-mm-) square sheet components.
- E. Product Schedule: For site furnishings, use same designations indicated on Drawings.
- F. Shop Drawings: Prepared by or under the supervision of a qualified professional, detailing fabrication and assembly.
 1. Submit shop drawings within a reasonable time so as not to delay the start of material fabrication and installation.
 2. Submit shop drawings per above allowing a minimum review time of 10 business days for review and response. Per above, also allow enough time for revisions and resubmittal where reasonably predictable.
 3. Shop drawings shall show the proposed layout identifying all components and details based on field verified conditions and measurements.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer, Fabricator, and Manufacturer.
- B. Material Certificates: For site furnishings manufactured with preservative-treated wood.

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1. Indicate type of preservative used and net amount of preservative retained. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
- C. Maintenance Instructions.
- D. Warranty: Written manufacturer's warranty.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: From Installer including a recommended maintenance plan with procedures for inspection and care during a calendar year. Submit before start of required warranty and maintenance periods

1.8 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Anchors: 10.

1.9 QUALITY ASSURANCE

- A. Contractor shall establish and maintain a quality assurance program for the purposes of managing the quality of the work. Quality assurance program shall consist of plans, procedures and organizational design necessary to ensure that work of this Section meets the prescriptive and performance requirements specified. The Quality Control, Source Quality Control and Site Quality Control provisions specified elsewhere in this Section shall form part of the Quality Assurance Program.
- B. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of Authorities Having Jurisdiction for all work included in this section.
 1. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section.
- C. Codes and Standards: Conform work to all applicable codes and standards.
- D. Manufacturer Qualifications: Provide manufacturer qualifications as follows:
 1. Submit a list of ten completed installations. For each installation provide: name and type of facility; its location; the date of installation; name and telephone number of contact at the facility familiar with the installation.
 2. Submit qualifications of manufacturer.
 3. Submit manufacturer's quality control program.
 4. Submit example of Material Warranty and any other applicable warranties.
- E. Installer Qualifications: Provide installer qualifications as follows:

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1. Submit a list of ten completed installations. For each installation provide: name and type of facility; its location; the date of installation; name and telephone number of contact at the facility familiar with the installation.
2. Submit resumes and/or qualifications of installation manager(s).
3. Submit installation quality control program.

1.10 SEQUENCING AND SCHEDULING

- A. General: Prior to the start of Work, prepare a detailed schedule of the work for coordination with other trades.
- B. Schedule all utility installations prior to beginning work in this section.

1.11 DELIVERY, STORAGE AND HANDLING

- A. Deliver packaged products in an undamaged condition in original containers, displaying manufacturer's labels, along with instructions for handling, storing, unpacking, protecting, and installing.
- B. Deliver and store materials in manufacturer's original containers, with seals unbroken and identification labels intact until time of use.
- C. Deliver products to achieve the shortest duration of storage time as practicable.
- D. Deliver all chemical products in original, unopened containers with original labels intact and legible, which state the guaranteed chemical analysis. Store all chemicals in weather protected enclosure.
- E. Comply with manufacturer's written instructions for delivery, storage, and handling, and as required to prevent damage to products and work during construction.
- F. Store products and materials in a neat and orderly manner. Maintain clear aisles and access to work areas. Protect stored products from theft and damage. Store products above ground in weathertight, ventilated packaging or enclosures.
- G. Store materials under cover and protected from weather and contact with damp or wet surfaces. Stack lumber flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.
- H. Store liquids in tightly closed containers protected from freezing.
- I. 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 if applicable.
- J. Bulk Materials:
 1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
 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. Do not move or handle materials when they are wet or frozen.

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- K. Accompany each delivery of bulk materials with appropriate certificates.

1.12 FIELD CONDITIONS

- A. 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 Owner and Architect not less than two days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without Owner and Architect's written permission.
- B. Field Measurements: Verify actual locations of all site elements and other construction contiguous with the work of this section prior to fabrication and/or installation.
- C. The work shall not occur in the presence of standing water, mud, snow, or frozen subgrade conditions. Work shall not occur while precipitation is occurring or during excessive winds, or when temperatures are outside the limits specified in this specification. Work completed during these conditions will be rejected.
- D. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.
- E. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds.
- F. Hot-Weather Requirements: Comply with hot-weather construction requirements.

1.13 EXCAVATING AND GRADING AROUND UTILITIES

- A. Contractor shall carefully examine the civil, record, and survey drawings to become familiar with the existing underground conditions before digging.
- B. Determine location of underground utilities and perform work in a manner that will avoid damage. Hand excavate as required. Maintain grade stakes set by others until parties concerned mutually agree upon removal.
- C. Notification of the utility locate services is required for all Excavation and grading deeper than 12 inches: The Contractor is responsible for knowing the location and avoiding utilities that are not covered by the local utility locator service.

1.14 WARRANTY

- A. When warranties are required, verify with Owner's counsel that warranties stated in this article are not less than remedies available to Owner under prevailing local laws.
- B. Special Warranty: Manufacturer agrees to repair or replace components that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:

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- a. Deterioration of finishes beyond normal weathering and wear.
 - b. Separation or delamination of materials and components.
- C. Verify available warranties and warranty periods for units and components.
- D. Warranty Period: One year from date of Substantial Completion

1.15 MAINTENANCE SERVICE

- A. Contractor to provide standard industry maintenance on all scope items herein until Final Acceptance.

PART 2 - PRODUCTS

2.1 PICKLEBALL NETS

- A. Manufacturer: Douglas Industries, Inc., Tel: 800 553 8907; Web: www.douglas-sports.com
- B. Model: JTN-30 Quickstart/Pickleball Tennis Net #20105 w/ Center Pipe Anchor #63428 and Adjustable Center Strap 20601
- C. Material:
 - 1. 3.0 mm Solid Core Knotted Braided Polyethylene with 285 lb. Break Strength
 - 2. Single Ply Vinyl Coated Polyester Headband 32 oz./sq. yd.
 - 3. Black Vinyl Side Pockets with Fiberglass Dowels
- D. Dimensions: 36" ht x 21'-9" long
- E. Mounting: Per manufacturer's written directions

2.2 PICKLEBALL POSTS

- A. Manufacturer: Douglas Industries, Inc., Tel: 800 553 8907; Web: www.douglas-sports.com
- B. Model: Douglas Deluxe SW-36 2-7/8" OD Pickleball Posts w/ GS-24RD Ground Sleeves
- C. Material:
 - 1. 2-7/8" OD Round 8 Gauge Allied's Zinc Flo-Coat Galvanized Steel
 - 2. Heavy-Duty External Wind Aluminum Deluxe Reel
 - 3. Die-Cast Zinc Caps
 - 4. Integrated Welded Steel Lacing Rods
 - 5. Polyester Powder Coat Finish: Black #63079
- D. Dimensions: 36" ht x 2-7/8" OD
- E. Mounting: Ground Sleeve GS-24RD

2.3 RACK-UP SYSTEMS

- A. Manufacturer: NEXTuP Pickleball Racks, Tel: 651 303 9835; E: info@NEXTuPPickleball.com

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- B. Model: PVC Peacekeeper 16 Paddle & PVC Peacekeeper 24 Paddle
- C. Material: PVC
- D. Dimensions: 39"x9"x5" & 57"x9"x5"
- E. Mounting: Per manufacturer's written directions w/ anti-theft locking nuts

2.4 TABLE

- A. Manufacturer: Pilot Rock, Sourced by RJ Thomas Mfg. Co., Tel: 800 762 5002; E: pilotrock@rjthomas.com
- B. Model: WXT/G-8CA
- C. Frame Material: Steel frame – Gray powder coat
- D. Table Top:
 - 1. Material: Expanded Steel
 - 2. Color: Gray
 - 3. Seat Height: 18"
 - 4. Overall Height: 30"
 - 5. Overall Length: 96"
 - 6. Surface Shape: Rectangle
 - 7. Weight: 284lbs.
- E. Mounting: Surface Anchors
- F. Accessibility:
 - 1. All tables to be ADA, refer to plan for locations

2.5 WIND-SCREEN

- A. Manufacturer: Midwest Cover, Inc. Tel: 800 594 0744; E: info@midwestcover.com
- B. Model: Permascreen Plus
- C. Materials
 - 1. Vinyl Coated Polyester
 - 2. 85% Opacity
 - 3. 11 oz/sy
 - 4. Tensile Strength 375lbs x 300lbs
 - 5. Four-ply w/ reinforced hems and 18oz vinyl tape on all sides
 - 6. #2 Brass grommets 18"oc
 - 7. 10' ht
- D. Installation Method: Surface Mount
- E. Material Finish: Black

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2.6 Acoustic Panels

- A. Manufacturer: Hushtec-USA Cover, Inc. Tel: 860 289 8033; E: info@midwestcover.com
- B. Model: ClearPlay 360
- C. Materials
 - 1. Transparent PVC
 - 2. Stainless steel eyelets
 - 3. Velcro lined
 - 4. .82lbs/sf
- D. Dimensions: 10'ht x 4'w x .14"d
- E. Installation Method: Surface Mount per manufacturer specifications
- F. Material Finish: Clear

2.7 BICYCLE RACK

- A. Manufacturer: Madrax Bicycle Security by Graber Manufacturing, Inc., Tel: 800 448 7931; E: sales@madrax.com
- B. Model: UX200
- C. Bicycle Rack Construction:
 - 1. Frame: 2" Square Steel Tubing
 - 2. Style: "U" Bike Rack
 - a. Overall Height: 34"
 - b. Overall Width: 31"
 - c. Overall Depth: 2"
 - d. Capacity: Designed to accommodate no fewer than 2 bicycles.
 - 3. Installation Method: Surface Mount
- D. Material Finish: Powder coat Black

2.8 Court Rules Signage

- A. Model: Salvaged and Reinstalled

2.9 Court Number Signage

- A. Manufacturer: Douglas Industries, Inc., Tel: 800 553 8907; Web: www.douglas-sports.com
- B. Model: 22204
- C. Material
 - 1. 18oz Vinyl
 - 2. Perimeter hemmed with Grommets
 - 3. Progressively Numbered

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- D. Dimensions: 12" x 12"
 - E. Installation Method: Surface Mount
 - F. Material Finish: Black with White Letters
- 2.10 Court Rack-up Rule Signage
- A. Manufacturer: Contractor Supplied
 - B. Material
 - 1. .008" Aluminum
 - 2. Rounded Edges
 - 3. Anti-graffiti laminate
 - 4. Color on one side
 - 5. Top and bottom center holes
 - 6. Owner provided graphics
 - C. Dimensions: 30" x 36"
- 2.11 MATERIALS
- A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated; free of surface blemishes and complying with the following:
 - 1. Rolled or Cold-Finished Bars, Rods, and Wire: ASTM B 211 (ASTM B 211M).
 - 2. Extruded Bars, Rods, Wire, Profiles, and Tubes: ASTM B 221 (ASTM B 221M).
 - 3. Structural Pipe and Tube: ASTM B 429/B 429M.
 - 4. Sheet and Plate: ASTM B 209 (ASTM B 209M).
 - 5. Castings: ASTM B 26/B 26M.
 - B. Steel and Iron: Free of surface blemishes and complying with the following:
 - 1. Plates, Shapes, and Bars: ASTM A 36/A 36M.
 - 2. Steel Pipe: Standard-weight steel pipe complying with ASTM A 53/A 53M, or electric-resistance-welded pipe complying with ASTM A 135/A 135M.
 - 3. Tubing: Cold-formed steel tubing complying with ASTM A 500/A 500M.
 - 4. Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A 513/A 513M, or steel tubing fabricated from steel complying with ASTM A 1011/A 1011M and complying with dimensional tolerances in ASTM A 500/A 500M; zinc coated internally and externally.
 - 5. Sheet: Commercial steel sheet complying with ASTM A 1011/A 1011M.
 - 6. Perforated Metal: From steel sheet not less than 0.090-inch (2.3-mm) thickness; manufacturer's standard perforation pattern.
 - 7. Expanded Metal: Carbon-steel sheets, deburred after expansion, and complying with ASTM F 1267.
 - 8. Malleable-Iron Castings: ASTM A 47/A 47M, grade as recommended by fabricator for type of use intended.
 - 9. Gray-Iron Castings: ASTM A 48/A 48M, Class 200.
 - C. Stainless Steel: Free of surface blemishes and complying with the following:
 - 1. Sheet, Strip, Plate, and Flat Bars: ASTM A 666.

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2. Pipe: Schedule 40 steel pipe complying with ASTM A 312/A 312M.
 3. Tubing: ASTM A 554.
- D. Anchors, Fasteners, Fittings, and Hardware: Stainless steel, commercial quality, tamperproof, vandal and theft resistant, concealed, recessed, and capped or plugged.
1. Angle Anchors: For inconspicuously bolting legs of site furnishings to on or below-grade substrate.
 2. Antitheft Hold-Down Brackets: For securing site furnishings to substrate.
- E. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M; recommended in writing by manufacturer, for exterior applications.
- F. Erosion-Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound; resistant to erosion from water exposure without needing protection by a sealer or waterproof coating; recommended in writing by manufacturer, for exterior applications.
- G. Galvanizing: Where indicated for steel and iron components, provide the following protective zinc coating applied to components after fabrication:
1. Zinc-Coated Tubing: External, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. (0.27 kg/sq. m) of zinc after welding, a chromate conversion coating, and a clear, polymer film. Internal, same as external or consisting of 81 percent zinc pigmented coating, not less than 0.3 mil (0.0076 mm) thick.
 2. Hot-Dip Galvanizing: According to ASTM A 123/A 123M, ASTM A 153/A 153M, or ASTM A 924/A 924M.

2.12 FABRICATION

- A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.
- B. Welded Connections: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. At exposed connections, finish surfaces smooth and blended, so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.
- C. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.
- D. Preservative-Treated Wood Components: Complete fabrication of treated items before treatment if possible. If cut after treatment, apply field treatment complying with AWP A M4 to cut surfaces.
- E. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.
- F. Factory Assembly: Factory assemble components to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

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2.13 GENERAL FINISH REQUIREMENTS

- A. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.14 ALUMINUM FINISHES

- A. Powder-Coat Finish: Manufacturer's standard polyester powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.15 STEEL AND GALVANIZED-STEEL FINISHES

- A. Powder-Coat Finish: Manufacturer's standard polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.
- B. PVC Finish: Manufacturer's standard, UV-light stabilized, mold-resistant, slip-resistant, matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added; complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness.

2.16 STAINLESS-STEEL FINISHES

- A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
- B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - 1. Run directional finishes with long dimension of each piece.
 - 2. Directional Satin Finish: No 4.
 - 3. Dull Satin Finish: No. 6.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Prior to installation examine site to confirm that existing conditions are satisfactory for the work of this section to proceed.
- B. Confirm that the subgrade is at the proper elevation and compacted as required. Subgrade elevations shall slope toward the under drain lines as shown on the drawings.
- C. Confirm that no adverse drainage conditions are present.
- D. Confirm that no conditions are present which are detrimental to plant growth.
- E. Confirm that utility work has been completed per the drawings.

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- F. If unsatisfactory conditions are encountered, notify the Landscape Architect immediately to determine corrective action prior to proceeding.

3.2 COORDINATION WITH OTHER WORK

- A. The Contractor is responsible for investigating, and being aware of, the work requirements of their sub-contractors and other contractors. The Contractor shall coordinate with all other work that may impact the completion of the work herein.
- B. Prior to the start of work, prepare a detailed schedule of the work for coordination with other trades.

3.3 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.4 INSTALLATION

- A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.
- B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.
- C. Install site furnishings level, plumb, true, and securely anchored at locations indicated on Drawings.
- D. Post Setting: Set cast-in support posts in concrete footing with smooth top, shaped to shed water. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at correct angle and are aligned and at correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.
- E. Posts Set into Voids in Concrete: Form or core-drill holes for installing posts in concrete to depth recommended in writing by manufacturer of site furnishings and 3/4 inch (19 mm) larger than OD of post. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions, with top smoothed and shaped to shed water.
- F. Pipe Sleeves: Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts have been inserted into sleeves, fill annular space between post and sleeve with nonshrink, nonmetallic grout mixed and placed to comply with anchoring material manufacturer's written instructions, with top smoothed and shaped to shed water.

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3.5 GRADE AND ELEVATION CONTROL

- A. Provide grade and elevation control during installation of the work of this section. Utilize grade stakes, surveying equipment, and other means and methods to assure that grades and contours conform to the grades indicated on the plans.

3.6 CLEANING

- A. The contractor should clean the job site and remove any excess materials. Coordinate with Owner for storage locations for any Attic Stock materials where applicable.

3.7 PROTECTION

- A. Contractor shall furnish and install construction fence around new installations to prevent access. Fencing shall be maintained in place for a minimum of 48 hours after completion of installation, or as directed by the Landscape Architect. Drying period may take longer due to weather conditions.
- B. Contractor shall notify Landscape Architect that landscape irrigation shall be restricted near installations until applicable drying period is complete. Standing water on installations shall be restricted at all times.

END OF SECTION 32 33 00

**SECTION 31 22 14
EARTHWORK FOR SITEWORK**

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes earthwork required to complete the Project except as specified in related work.

1.2 SUBMITTALS

- A. Samples
 - 1. Submit 10 lb samples of each material to be used. Identify source, type (use) of each material and gradation. Forward to testing agency packed tightly in containers to prevent contamination. Submit copy of transmittal to Owner.
- B. Submit invoices and delivery tickets indicating the amount and type of off-site materials delivered.
- C. Submit sediment and erosion plan, specific to the site that complies with EPA 832/R-92-005 "Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices".

1.3 QUALITY ASSURANCE

- A. Codes and Standards: Perform Work in compliance with applicable requirements of governing authorities having jurisdiction.
- B. Soil Testing and Inspection Service:
 - 1. The Contractor will engage a soil testing and inspection service, to include testing soil materials proposed for use in the Work and initial quality control testing during earthwork operations.
 - 2. Furnish soil survey for satisfactory soil materials and samples of soil materials to the testing service.

1.4 PROJECT CONDITIONS

- A. Site Information
 - 1. The Owner has had a subsurface investigation performed, the results of which are contained in a report. The report presents conclusions on the subsurface conditions based on their interpretation of the data obtained in the investigation.
 - 2. The Contractor acknowledges that they have reviewed the report and any addenda thereto.
 - 3. It is recognized that a subsurface investigation may not disclose all conditions as they actually exist and other conditions may change, particularly groundwater conditions, between the time of a subsurface investigation and the time of earthwork operations.
 - 4. The data on indicated subsurface conditions are not intended as representations or warranties of the continuity of such conditions. It is expressly understood that the Owner

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- and Engineer will not be responsible for interpretations or conclusions drawn therefrom by the Contractor. The data are made available for the convenience of the Contractor.
5. Additional test borings and other exploratory operations may be made by the Contractor at no cost to the Owner.
- B. Traffic: Conduct operations to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Do not close or obstruct streets, walks or other occupied or used facilities without permission from authorities having jurisdiction.
- C. Protection of Existing Improvements:
1. Provide barricades, coverings, or other types of protection necessary to prevent damage to existing improvements to remain in place.
 2. Restore damaged improvements to their original condition, as acceptable to the Owners and other parties or authorities having jurisdiction.
- D. Improvements on Public Property: Obtain authority for performing removal and alteration Work on public property.
- E. Existing Utilities:
1. Locate existing underground utilities in the areas of Work before starting earthwork operations. If utilities are to remain in place, provide adequate means of protection during earthwork operations.
 2. Contact JULIE (800-892-0123) to verify locations of existing underground utilities before starting excavation.
 3. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult the Engineer immediately for directions as to procedure.
 4. Cooperate with the Owner and public and private utility companies in keeping their respective services and facilities in operation.
 5. Demolish and completely remove from the site underground utilities indicated to be removed. Coordinate with local utility companies for shutoff of services if lines are active.
- F. Use of Explosives: The use of explosives shall not be permitted.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- A. General Fill: Provide soil materials conforming to ASTM D2487 soil groups GW, GR, GM, SW, SP or SM or a combination that are free of debris, waste, frozen materials, vegetable, organic and other deleterious matter and having maximum particle size of 2" in all dimensions
- B. Select Fill: Clean natural or crushed stone or gravel conforming to State of Illinois, Department of Transportation Gradation CA 6.
- C. Underbed Material: Naturally or artificially graded mixture of natural or crushed stone or gravel conforming to State of Illinois, Department of Transportation Specifications for Gradation CA 8, or CA 7.
- D. Use Contractor supplied off-site material except that general fill may be from excavation if found acceptable by the Contractor's testing service. Provide all materials required to complete the Work in the Contract.

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2.2 ACCESSORIES

- A. Drainage Fabric: Non-woven geotextile, specifically manufactured as a drainage geotextile; made from polyolefins, polyesters, or polyamides; and with the following minimum properties determined according to ASTM D 4759 and referenced standard test methods:
 - 1. Grab Tensile Strength: 110 lbf (490 N); ASTM D 4632.
 - 2. Tear Strength: 40 lbf (178 N); ASTM D 4533.
 - 3. Puncture Resistance: 50 lbf (222 N); ASTM D 4833.
 - 4. Water Flow Rate: 150 gpm per sq. ft. (100 L/s per sq. m); ASTM D 4491.
 - 5. Apparent Opening Size: No. 50 (0.3 mm); ASTM D 4751.
- B. Separation Fabric: Woven geotextile, specifically manufactured for use as a separation geotextile; made from polyolefins, polyesters, or polyamides; and with the following minimum properties determined according to ASTM D 4759 and referenced standard test methods:
 - 1. Grab Tensile Strength: 200 lbf (890 N); ASTM D 4632.
 - 2. Tear Strength: 75 lbf (333 N); ASTM D 4533.
 - 3. Puncture Resistance: 90 lbf (400 N); ASTM D 4833.
 - 4. Water Flow Rate: 4 gpm per sq. ft. (2.7 L/s per sq. m); ASTM D 4491.
 - 5. Apparent Opening Size: No. 30 (0.6 mm); ASTM D 4751.
- C. 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:
- D. Detectable Warning Tape: Acid- and alkali-resistant polyethylene film warning tape manufactured for marking and identifying underground utilities, minimum 6 inches and 4 mils thick, continuously inscribed with a description of utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; 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 TEMPORARY EROSION CONTROL

- A. Before mobilizing and starting Work on the site, institute, expand as necessary, and maintain throughout the project a sediment and erosion control system that complies with EPA 832/R-92-005 and as required by authorities having jurisdiction.
- B. Control erosion and sediment damage to roadways, adjacent properties and water resources through the use of basins, ditch checks, temporary ditches, mulch barriers, mulches, grasses, silt filter fences, hay or straw bales, aggregate barriers, inlet and pipe protection and other appropriate means.
- C. Remove and legally dispose of debris resulting from the project when no longer required in accordance with authorities having jurisdiction.

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3.2 CLEARING

A. General:

1. Remove vegetation, improvements, or obstructions that interfere with installation of new construction. Removal includes new and old stumps and their roots.
2. Carefully and cleanly cut roots and branches of vegetation to be left standing, where such roots and branches obstruct new construction.
3. Comply with the environmental protection and safety requirements of all authorities having jurisdiction. Keep dust to a minimum. Maintain streets free of mud, dirt and debris.

B. Topsoil Removal:

1. Topsoil is defined as friable clay loam surface soil found in a depth of not less than 4". Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones, and other objects, and without weeds, roots, and other objectionable material.
2. Strip topsoil to whatever depths encountered, and in such manner so as to prevent intermingling with the underlying subsoil or other objectionable material. Remove heavy growths of grass from areas before stripping.
3. Where vegetation is to be left standing, stop topsoil stripping a sufficient distance from such vegetation to prevent damage to the main root system.
4. Stockpile top soil in storage piles for reuse or remove from the site. Furnish acceptable topsoil at no cost to Owner. Construct storage piles to freely drain surface water. Cover storage piles if required to prevent windblown dust.

C. Removal of Improvements:

1. Remove improvements that interfere with construction.
2. Cap and remove abandoned underground piping or conduit.
3. Where uncharted or incorrectly charted below grade improvements are discovered, obtain approval of Owner before removal.

3.3 EXCAVATION

A. General:

1. Excavation consists of the removal and disposal of materials encountered when establishing the required grade elevations. Such excavation is unclassified regardless of the materials encountered and all materials to be disposed of in accordance with authorities having jurisdiction.
2. Unauthorized excavation consists of removal of materials beyond indicated or required elevations. Replace unauthorized excavation by backfilling and compacting as specified for select fill at no cost to Owner.
3. Excavate under pavements as required to comply with cross sections, elevations and grades.
4. Excavate elsewhere as required to establish new finish grades, allowing not less than 4" for topsoiling.

B. Dewatering:

1. Prior to commencing work, the Contractor shall provide a storm water management plan. This plan shall stipulate provisions for dewatering, pumping, collection, temporary storage, and discharge or disposal of storm water, perched water and other liquids,

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contaminated and/or uncontaminated, at the site so as to facilitate soil removal and minimize disposal costs for contaminated fluids.

2. Do not allow water to accumulate in excavations. Remove water from excavations to prevent softening of foundation bottoms, undercutting footings, and soil changes detrimental to the stability of subgrades and foundations. Provide and maintain pumps, sumps, suction and discharge lines, and other dewatering system components necessary to convey the water away from the site.
3. Convey water removed from excavations and rainwater to collecting or run-off areas acceptable to authorities having jurisdiction. Do not use trench excavations for site utilities as temporary drainage ditches.

C. Stability of Excavations:

1. Slope the side of excavations to comply with local codes and authorities having jurisdiction and maintain same. Secure, shore, and brace where sloping is not possible either because of space restrictions or stability of material excavated.
2. Maintain sides and slopes of excavations in a safe condition until completion of backfilling.

D. Shoring and Bracing:

1. Provide shoring and bracing to comply with local codes and authorities having jurisdiction.
2. Provide materials for shoring and bracing, such as sheet piling, uprights, stringers and cross braces, in good serviceable conditions.
3. Maintain shoring and bracing in excavations regardless of the time period excavations will be open. Carry down shoring and bracing as the excavation progresses.

E. Material Storage: Stockpile excavated materials classified as satisfactory soil material onsite as applicable for backfill or fill. Place, grade and shape stockpiles for proper drainage.

F. Excavation for Structures:

1. Excavate to the subgrade elevations required within a tolerance of plus or minus 0.10' to balance, and extending a sufficient distance from footings and foundations to permit placing and removal of concrete formwork, installation of services, other construction required, and for inspection.
2. Take care not to disturb the bottom of the excavation. Excavate by hand to final grade just before concrete is placed. Trim bottoms to the required lines and grades to leave a solid base to receive concrete.

G. Excavation for Pavements: Cut the surface under pavements to comply with cross sections, elevations and grades.

H. Removal of Unsatisfactory Soil Materials:

1. Excavate unsatisfactory soil materials encountered that extend below the required elevations, to the additional depth established by the Contractor's testing service and approved by Owner.
2. If excavated unsatisfactory materials are to be removed from the property, all such materials shall be disposed of in accordance with authorities having jurisdiction.
3. Such additional excavation, provided it is not due to the fault or neglect of the Contractor, will be measured and paid for as a change in the Work if approved by Owner.

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- I. Closing Abandoned Underground Utilities: Close open ends of abandoned underground utilities, which are to remain permanently, and with sufficiently strong closures to withstand pressures which may result after closing.
- J. Cold Weather Protection: Protect excavation bottoms against freezing when the atmospheric temperature is less than 35 degrees F. Maintain excavation free of water, ice and snow.

3.4 PROOF ROLLING

- A. Proof Roll entire area under pavements with a pneumatic roller or heavily loaded dump truck (minimum 25 tons).
- B. Make at least two (2) passes (second at right angle to first) in the presence of a representative of the Contractor's testing service.
- C. Excavate unsatisfactory soil materials encountered to the additional depth established by the Contractor's testing service and approved by Owner.
- D. Perform no further Work until slab subgrades are acceptable to the representative of the Contractor's testing service.

3.5 COMPACTION

- A. General: Control soil compaction during construction, providing the minimum percentage of density specified.
- B. Percentage of Maximum Density Requirements: Provide not less than the following percentages of density of soil material compacted at + 2% optimum moisture content, for the actual density of each layer of soil material-in-place:
 - 1. Compact top 12" of subgrade and each layer of backfill or fill material to 95% maximum density (ASTM D 1557).
- C. Moisture Control:
 - 1. Where the subgrade or layer of soil material must be moisture conditioned before compaction, uniformly apply water to the surface of subgrade, or layer of soil material, to prevent free water appearing on the surface during or subsequent to compaction operations.
 - 2. Remove and replace, to scarify and air dry, soil material that is too wet to permit compaction to specified density.

3.6 BACKFILL AND FILL

- A. Prior to Backfill Placement: Backfill excavations as promptly as the Work permits, but not until completion of the following:
 - 1. Review of construction below finish grade.
 - 2. Code required inspection, testing, approval, and recording locations of underground utilities.
 - 3. Removal of concrete formwork.
 - 4. Removal of shoring and bracing, and backfilling of voids with satisfactory materials. Cut off temporary sheet piling driven below bottom of structures and remove in manner to prevent settlement of the structure or utilities, or leave in place if required.

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5. Removal of trash and debris.
6. Permanent or temporary horizontal bracing is in place on horizontally supported walls.

B. Ground Surface Preparation:

1. Remove vegetation, debris, unsatisfactory soil materials, obstructions, and deleterious materials from ground surface prior to placement of fills. Plow, strip, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so that fill material bonds with existing surface.
2. When the existing ground surface has a density less than that specified under "Compaction" for the particular area classification, break up the ground surface, pulverize, bring moisture condition to the optimum moisture content, and compact to the required depth and percentage of maximum density.

C. Placement and Compaction:

1. Place backfill and fill materials to required grades in layers not more than 8" in loose depth for materials compacted by heavy compaction equipment and not more than 4" in loose depth for materials compacted by hand operated tampers. Before compaction, moisten or aerate each layer as necessary to provide the optimum moisture content of the soil material. Compact each layer to the required percentage of density.
2. Place backfill and fill materials evenly on all sides of structures to required elevations and uniformly along the full length of each structure.
3. Do not place backfill or fill material on surfaces that are muddy, frozen, or contain frost or ice.
4. Backfill and fill under pavements as required to comply with cross sections, elevations and grades shown.
 - a. Use select fill material. Use of existing onsite native soil and general fills to bring site to proposed subgrade elevation must be approved by the onsite testing agency, geotechnical engineer, and Owner.
5. Backfill and fill elsewhere as required to establish new finished grades, allowing not less than 4" for top soiling using select fill except below 3-foot, general fill may be used.

3.7 GRADING

- A. General: Uniformly grade the area, including adjacent transition areas. Smooth finished surfaces within specified tolerances, compact with uniform levels or slopes between elevation points, or between such points and existing grades.
- B. Grassed Areas: Finish areas to receive topsoil to within not more than 0.10' above or below the required subgrade elevations, compacted as specified, and free from irregular surface changes.
- C. Walks: Shape the surface of areas under walks to line, grade and cross section, with the finish surface not more than 0.00' above or 0.10' below the required subgrade elevation, compacted as specified, and graded to prevent ponding of water after rains.
- D. Pavements: Shape the surface of the areas under pavement to line, grade and cross section, with the finish surface not more than 1/4" above or below the required subgrade elevation, compacted as specified, and graded to prevent ponding of water after rains.

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3.8 FIELD QUALITY CONTROL

A. Quality Control Testing During Construction:

1. The Contractor's testing service must inspect and approve sub-grades and fill layers before further construction work is performed thereon.
2. If, in the opinion of the Contractor's testing service, based on reports of the testing service and inspection, the subgrade or fills which have been placed are below the specified density, additional compaction and testing shall be required until satisfactory results are obtained at no additional cost to Owner. In such event, retesting shall be paid by the Contractor at no additional cost to Owner.

B. The Contractor will engage a qualified independent testing and inspecting agency to sample materials, perform tests, and submit test reports during earthwork operations.

C. Contractor's Responsibilities

1. Notify onsite testing agency sufficiently in advance of operations to allow for assignment of personnel and scheduling of tests.
2. Coordinate personnel; provide access to Work, to manufacturer's operations.
3. Provide preliminary representative samples of materials to be tested, in required quantities.
4. Furnish casual labor and facilities to provide access to Work to be tested to obtain and handle samples at the site to facilitate inspections and tests, and storage and curing of tests.
5. Arrange with laboratory, pay for, all samples and tests required.

D. Tests for Proposed Soil Materials:

1. Test soil materials proposed for use in the Work and promptly submit test result reports. Soil samples shall be provided by Contractor.
2. Provide one optimum moisture-maximum density curve for each type of cohesive soil. Determine maximum densities in accordance with ASTM D 1557.
3. Determine the suitability of materials to be used as fill and backfill.
4. Perform a mechanical analysis (AASHTO T88), plasticity index (AASHTO T91), and frost susceptibility analysis.

E. Compaction Testing:

1. Inspect, test, and approve each lift of fill and backfill before next lift is placed. Test in accordance with ASTM D1556 or ASTM D2167 as appropriate.
2. Field density tests may be performed by the nuclear method in accordance with ASTM D 6938. The calibration curves shall be periodically checked and adjusted to correlate to tests performed using ASTM D1556 or ASTM D2167. Calibration of nuclear density testing device shall be in accordance with ASTM D7759.
3. If field tests are performed using nuclear methods, the inspection and testing agency shall make calibration checks on both density and moisture gauges at beginning of work, on each different type of material encountered, and at intervals as specified by the equipment manufacturer.
4. Take a field density test for each 2,000 sq. ft. of backfill and fill under slabs and pavements.
5. Take a field density test at 50 foot intervals along utility trench backfill under slabs and pavements.

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F. Proofrolling Observation:

1. Provide continuous observation of proofrolling operations. Four passes shall be made.
2. Subgrade must be approved by onsite testing agency prior to backfill.

G. Submittals: Submit copies of the following reports:

1. Report and certification of granular fill and drainage fill.
2. Test reports on fill and backfill material.
3. Field density test reports.
4. One optimum moisture-maximum density curve for each type of soil encountered.
5. Report of actual unconfined compressive strength and/or results of plate bearing tests of each strata tested.
6. Other tests' and materials' certificates, as required.

3.9 MAINTENANCE AND RESTORATION

A. Protection of Graded Areas:

1. Protect newly graded areas from traffic and erosion, and keep free of trash and debris and growth of weeds.
2. Repair and reestablish grades in settled, eroded, and rutted areas to the specified tolerances.

B. Reconditioning Compacted Areas: Where completed compacted areas are disturbed by subsequent construction operations or adverse weather scarifies the surface, reshape, and compact to the required density prior to further construction.

C. Restoration: Restore all areas affected by construction both on and off Owner's property to original condition.

3.10 DISPOSAL OF EXCESS AND WASTE MATERIALS

A. Burning is not permitted on the Owner's property.

B. Remove waste materials, excess excavated materials, excavated materials classified as unsatisfactory soil material from the Owner's property and legally dispose of all materials.

END OF SECTION 31 22 14

SECTION 32 12 16

HOT MIX ASPHALT PAVING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes hot mix asphalt paving as shown on the Drawings and as specified herein.

1.2 SUBMITTALS

- A. Product Data: For each type of product specified. Include technical data and tested physical and performance properties.
- B. Job-Mix Designs: For each job mix proposed for the Work.
 - 1. Job-mix design documentation shall include the amount of RAP material, by percentage of total mix, to be utilized.
 - 2. Job-mix design documentation shall clearly indicate source/origin of RAP material.
- C. Qualification Data: For IDOT qualified manufacturer and Installer.
- D. Material Certificates: For each paving material, from manufacturer.
- E. Material Test Reports: For each paving material and mix.

1.3 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of Illinois Department of Transportation (IDOT) construction guides and manuals as described, specified, and illustrated in the current edition of the "Standard Specifications for Road and Bridge Construction," including Supplemental Specifications and Recurring Special Provisions, latest editions and updates for asphalt paving work. Hereafter these documents are referenced as the "IDOT Standard Specifications, (IDOT SSRBC)".
 - 1. Measurement and payment provisions and safety program submittals included in IDOT Standard Specifications do not apply to this Section.
- B. Manufacturer Qualifications: Hot mix asphalt manufacturer shall have valid and current IDOT approvals for materials and work specified.
- C. 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 condition of subgrade and preparatory work.
 - c. Review requirements for protecting paving work, including restriction of traffic during installation period and for remainder of construction period.
 - d. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

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1.4 PROJECT CONDITIONS

- A. Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met. Temperatures are to be taken in the shade, away from exposed pavement and stone aggregate fill and other artificial heat sources.
 - 1. Prime Coat: Minimum surface temperature of 60 deg F.
 - 2. Slurry Coat: Comply with weather limitations in ASTM D 3910.
 - 3. Asphalt Base Course: Minimum surface temperature of 40 deg F and rising at time of placement.
 - 4. Asphalt Binder Course: Minimum surface temperature of 40 deg F and rising at time of placement.
 - 5. Asphalt Surface Course: Minimum surface temperature of 60 deg F at time of placement.
- B. Crack Filling and Base Patching: All Cracks shall be filled in accordance with Section 406 of the latest IDOT Standard Specifications per the item Mixture For Cracks, Joints, And Flangeways. Upon repair, a fiberglass fabric repair system shall be installed in accordance with Section 444 of the latest IDOT Standard Specifications. Patching to be reviewed with Owner and patched to a depth equal the existing asphalt thickness – assumed approximately 4 inches.

PART 2 - PRODUCTS

2.1 PAVING MATERIALS

- A. Granular Base Course: Complying with requirements of IDOT Standard Specifications, Section 311, for type B base course with gradation CA-6 crushed stone.
- B. Hot Mix Asphalt Binders, Surface Courses and Materials: Complying with IDOT Standard Specifications, Section 1030, Class I.
 - 1. Tennis/Pickleball Court:
 - a. See drawings.
 - 2. Street Restoration:
 - a. Per City of Evanston requirements and specifications.
 - 3. Reclaimed Asphalt Pavement (RAP): RAP, complying with IDOT Standard Specifications, may be used only when approved in writing by the Engineer of Record prior to starting the Work.
 - a. No more than 25% of the proposed asphalt mix is allowed to be RAP material.
 - b. RAP material shall be free of contamination, including, but not limited to, dirt, sand, brick, debris, concrete, sheet asphalt, sealant materials, and clean stone.

2.2 AUXILIARY MATERIALS

- A. Sand: ASTM D 1073, Grade Nos. 2 or 3.
- B. Paving Geotextile: AASHTO M 288, nonwoven polypropylene; resistant to chemical attack, rot, and mildew; and specifically designed for paving applications.
- C. Joint Sealant: ASTM D 6690, Type II or III, hot-applied, single-component, polymer-modified bituminous sealant.

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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.
- C. Commencement of asphalt paving work will be an indication of the acceptance of sub-grade and the Contractor will be held responsible for the satisfactory execution and results of the finished work.

3.2 SURFACE PREPARATION

- A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Verify that prepared subgrade is ready to receive paving.
- B. Subgrade: Shall comply with requirements of IDOT Standard Specifications, Section 301. Subgrade shall be proof-rolled in accordance with Division 31 Section "Earthwork for Sitework".
- C. Tack Coat: Apply uniformly to existing pavement surfaces at a rate of 0.05 - 0.10 gal./sq. yd.
 - 1. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.
 - 2. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
 - 3. Prohibit traffic across tack coat for period not less than that required by manufacturer.
- D. Prime Coat: Apply uniformly over surface of compacted unbound-aggregate base course at a rate of 0.25 - 0.50 gal. / sq. yd. Apply enough material to penetrate and seal but not flood surface. Allow prime coat to cure fully.
 - 1. If prime coat is not entirely absorbed within 24 hours after application, spread sand over surface to blot excess asphalt. Use enough sand to prevent pickup under traffic. Remove loose sand by sweeping before pavement is placed and after volatiles have evaporated.
 - 2. Protect primed substrate from damage until ready to receive paving.

3.3 HOT-MIX ASPHALT PLACING

- A. Machine place hot-mix asphalt paving on prepared surfaces, spread uniformly, and strike off, in accordance with IDOT Standard Specifications, Sections 406 and 407. Place asphalt mix by hand to 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 hot-mix asphalt base course in number of lifts and thicknesses indicated.
 - 2. Place hot-mix asphalt surface coat in single lift.
 - 3. Spread mix at minimum temperature of 250 deg F.
 - 4. Begin applying mix along centerline of crown for crowned sections and on high side of one-way slopes unless otherwise indicated.
 - 5. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.
- B. Place paving in consecutive strips not less than 10 feet wide unless infill edge strips of a lesser width are required.
 - 1. After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips. Complete a section of asphalt base course before placing asphalt surface course.

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- C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

3.4 JOINTS

- A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course. Joints between successive days' work shall be constructed to ensure thorough and continuous bond between the newly and previously placed paving.
 - 1. Clean contact surfaces and apply tack coat to joints.
 - 2. Offset longitudinal joints, in successive courses, a minimum of 6 inches.
 - 3. Offset transverse joints, in successive courses, a minimum of 24 inches.
 - 4. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to the Asphalt Institute MS-22, "Construction of Hot-Mix Asphalt Pavements," for both "Ending a Lane" and "Resumption of Paving Operations."
 - 5. Compact joints as soon as hot-mix asphalt will bear roller weight without excessive displacement.
 - 6. Compact asphalt at joints to a density within two percent (2%) of specified course density.

3.5 COMPACTION

- A. General: 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.
- B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.
- C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:
 - 1. Average Density: 92 percent of reference maximum theoretical density according to ASTM D 2041, but not less than 90 percent nor greater than 96 percent.
- D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.
- E. 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.
- F. 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.
- G. Frames of subsurface structures:
 - 1. Coat surfaces of new and existing frames with oil to prevent bond with asphalt paving.
 - 2. Set cover rings to be flush with finish surface and surround with a ring of compacted asphaltic concrete to one inch below top of frame. Adjust as required to meet paving.
 - 3. Provide temporary covers over openings until completion of rolling operations
- H. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and sufficiently hardened, as determined by the Project Engineer.

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- I. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

3.6 INSTALLATION TOLERANCES

- A. Pavement Thickness: Compact each course to produce the thickness indicated within the following tolerances:
 - 1. Base Course: Plus or minus 1/2-inch.
 - 2. Binder Course: Plus or minus 1/4-inch.
 - 3. Surface Course: Plus 1/4- inch, no minus.
- B. Pavement Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot long straightedge applied transversely or longitudinally to paved areas:
 - 1. Base Course: 1/2-inch.
 - 2. Binder Course: Plus or minus 1/4-inch.
 - 3. Surface Course: 1/8-inch.
 - 4. Crowned Surfaces: Test with crowned template centered and at right angle to crown. Maximum allowable variance from template is 1/4-inch.

3.7 FIELD QUALITY CONTROL

- A. Testing Agency: The Contractor will engage a qualified testing agency to perform proof roll of subgrade and compaction testing of granular base prior to pavement placement and all tests and inspections as needed.
- B. Thickness: In-place compacted thickness of hot-mix asphalt courses will be determined according to ASTM D 3549.
- C. Surface Smoothness: Finished surface of each hot-mix asphalt course will be tested for compliance with smoothness tolerances.
- D. In-Place Density: Testing agency will take samples of uncompacted paving mixtures and compacted pavement according to ASTM D 979.
 - 1. Reference maximum theoretical density will be determined by averaging results from four samples of hot-mix asphalt-paving mixture delivered daily to site, prepared according to ASTM D 2041, and compacted according to job-mix specifications.
 - 2. In-place density of compacted pavement will be determined by testing core samples according to ASTM D 1188 or ASTM D 2726.
 - a. Take one core sample for every 1,000 square yards or less of installed pavement, with no fewer than three (3) core samples taken.
 - b. 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.
- E. Replace and compact hot-mix asphalt where core tests were taken.
- F. Remove and replace and/or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

3.8 DISPOSAL

- A. Except for material indicated to be recycled, all rubbish and debris resulting from the Work of this Section must be collected, removed from the site, and disposed of legally in an approved landfill.

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END OF SECTION 32 12 16

SECTION 32 13 13

PORTLAND CEMENT CONCRETE PAVING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes Portland cement concrete paving required to complete the project.

1.2 SUBMITTALS

- A. Laboratory Test Reports: Submit 2 copies of laboratory test reports to concrete materials and mix design tests.
- B. Delivery Tickets: Submit copies of delivery tickets for each load of concrete delivered to the site.
- C. Product Data: Submit copies of manufacturer's specifications with application and installation instructions for proprietary materials and items upon request.

1.3 QUALITY ASSURANCE

- A. Perform work in accord with the current IDOT Standard Specifications for Road and Bridge Construction.
- B. Obtain materials from same source throughout.
- C. Regulatory Requirements:
 - 1. Illinois Steel Products Procurement Act as amended (Illinois Revised Statutes, Ch. 48, par. 1901 et. seq.).
- D. Concrete Testing Service:
 - 1. The Contractor will employ a separate testing laboratory to perform initial field quality control testing.
 - 2. Materials and installed Work may require testing and retesting at any time during the progress of the Work. Allow free access to material stockpiles and facilities at all times. Retesting of rejected materials and installed Work shall be done at the Contractor's expense.
 - 3. Three concrete test cylinders shall be taken for every 75 or less cu. yds. of each class of concrete placed each day.
 - 4. One additional test cylinder shall be taken during cold weather and be cured on site under same conditions as concrete it represents.
 - 5. One slump test shall be taken for each set of test cylinders taken.

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PART 2 - PRODUCTS

2.1 FORM MATERIALS

- A. Comply with IDOT SSRBC, Article 803.04.

2.2 REINFORCEMENT

- A. Reinforcing steel: ASTM A 615: Grade 60, epoxy coated.
- B. Welded steel wire fabric: Plain type, ASTM A 185; rolls; epoxy coated.
- C. Tie wire: Annealed steel, minimum 16 gauge size.
- D. Dowels: ASTM A 615; Grade 40, plain steel, epoxy coated.

2.3 ACCESSORIES

- A. Curing compound: Comply with IDOT SSRBC, Article 718.04. Also see Part 3.09 Curing.
- B. Liquid surface sealer. ASTM D 3405.
- C. Preformed joint filler: ASTM D 1751.

2.4 ADMIXTURES

- A. Air entrainment admixture: Comply with ASTM C 260.
- B. Chemical admixture: Comply with ASTM C 94.

2.5 CONCRETE MIX

- A. Mix concrete in accordance with IDOT SSRBC, Section 1020, for Class PV Type III Concrete. Also mix in accordance with Section 1020.11.
- B. Provide concrete for paving of the following characteristics:
 - 1. Compressive strength:
 - a. At 3 days: 3500 psi.
- C. Use accelerating admixtures in cold weather only with Landscape Architect prior written approval. Use of admixtures will not relax cold weather placement requirements.
- D. Add air entraining agent to concrete mix for concrete work subject to freeze/thaw cycling and exposed to exterior.

PART 3 - EXECUTION

3.1 SUBGRADE PREPARATION

- A. Prepare in accordance with IDOT SSRBC, Section 301.

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1. Proof roll areas under drives and parking areas.

B. Provide additional fill for soft spots and hollows.

C. Level and Compact subgrade, to receive granular base for concrete work, to 95% Modified Proctor Density.

3.2 CONCRETE PLACING

A. Place all paving concrete in accordance with IDOT SSRBC, Section 420.

B. Place concrete for sidewalks in accordance with IDOT SSRBC, Section 424.

C. Cure concrete in accordance with IDOT SSRBC, Section 420.

3.3 INSPECTION

A. The Testing Laboratory shall verify that the compacted base is ready to support paving and imposed loads.

B. Verify gradients and elevations of base are correct.

C. Start of installation constitutes acceptance of existing conditions.

3.4 PREPARATION

A. Moisten base to minimize absorption of water from fresh concrete.

B. Notify Landscape Architect minimum 48 hours before start of concreting operations.

3.5 FORMING

A. Place and secure forms to correct location, dimensions and profile.

B. Assemble formwork to permit easy stripping and dismantling without damaging concrete.

C. Place joint fillers vertical in position, in straight lines. Secure to formwork during concrete placement.

3.6 REINFORCEMENT

A. Place reinforcement at mid-height of slabs-on-grade.

B. Interrupt reinforcement at contraction and expansion joints.

C. Place reinforcement to achieve slab and curb alignment as detailed.

D. Provide dowelled joints at interruptions of concrete with one end of dowel set in capped sleeve to allow longitudinal movement.

3.7 FORMED JOINTS

A. Place expansion, control and contraction joints as shown on the drawings. Align curb, gutter and sidewalk joints.

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- B. All expansion joints in concrete paving, sidewalk paving, and curb shall be sealed per IDOT SSRBC.
- C. Place joint filler between paving components and building (s) or other appurtenances. Recess top of filler 1/2 inch for sealer placement.
- D. Provide scored, joints at 5 feet intervals of sidewalk except where otherwise shown.

3.8 CURING

- A. Curing and protection shall be as outlined in IDOT Section 1022. Color lithochrome color wax matching the colored concrete as manufactured by L.M. Schofield Company or approved equal, and applied in accordance with the manufacturer's written instructions; or white pigmented curing compound as outlined in IDOT Section 1022 are the preferred curing methods. White-opaque polyethylene film shall not be accepted as a curing method.

3.9 FINISHING

- A. Area paving: Light broom, radiused and trowel joint edges, wood float.
- B. Sidewalk paving: Light broom, radiused and trowel joints edges, wood float.
- C. Curbs and gutters: Light broom.
- D. Place curing compound on exposed concrete surfaces immediately after finishing. Apply in accordance with manufacturer's current printed instructions.

3.10 PROTECTION

- A. Immediately after placement, protect concrete from premature drying, excessive hot or cold temperatures and mechanical injury. Maintain protection until accepted.

3.11 FIELD QUALITY CONTROL

- A. Maintain record of placed concrete items. Record date, location of pour, quantity, air temperature and test samples taken.
- B. Initial Testing: The Contractor will employ a separate testing laboratory to perform field quality control testing.
- C. Additional Tests: The testing service will make additional tests of in-place concrete when test results indicate the specified concrete strengths and other characteristics have not been attained in the structure, as directed by the Landscape Architect. The Contractor shall pay for such tests conducted, and any other additional testing as may be required, when unacceptable concrete is verified.
- D. Formed Concrete Dimensional Tolerances:
 - 1. Formed concrete having any dimension smaller or greater than required, and outside the specified tolerance limits, will be considered deficient in strength and subject to additional testing as herein specified.
 - 2. Formed concrete having any dimension greater than required will be rejected if the appearance or function of the structure is adversely affected, or if the larger dimensions interfere with other construction. Repair, or remove and replace rejected concrete as

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required to meet the construction conditions. When permitted, accomplish the removal of excessive material in a manner to maintain the strength of the section without affecting function and appearance.

3. Construction for ADAAG accessible walks, pavement surfaces, and areas shall have tolerance limits in accordance with local and federal regulations (whichever is more stringent).
- E. Defective Work: Concrete work which does not conform to the specified requirements, including strength, tolerances, and finishes, shall be corrected at the Contractor's expense, without extension of time therefore. The Contractor shall also be responsible for the cost of corrections to any other work affected by or resulting from corrections to the concrete work.

END OF SECTION 32 13 13

SECTION 32 18 23.53

ASPHALT ATHLETIC COURT SURFACE COLOR COATING SYSTEM

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Asphalt athletic court surface color coating system.

1.02 REFERENCE STANDARDS

- A. American Sports Builders Association (ASBA).
- B. National Federation of State High School Association (NFHSA)

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, including surface and crack preparation and application instructions.
- B. Samples: Submit manufacturer's color samples of color coating.
- C. Test Reports: Submit independent test results for solar reflectance index.
- D. Submit independent test results for 2000 Hour ASTM G154, accelerated weathering UV test, to demonstrate long-term durability and fade resistance.
 - 1. Submit independent test results for 2000 Hour, accelerated weathering ASTM G155 Xenon Arc test, to demonstrate long-term fade resistance and quality of pigment.
- E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- F. Manufacturer's Project References: Submit manufacturer's list of successfully completed asphalt athletic court surface color coating system projects, including project name, location, and date of application.
- G. Applicator's Project References: Submit applicator's list of successfully completed asphalt athletic court surface color coating system projects, including project name, location, type and quantity of color coating system applied, and date of application.
- H. Warranty Documentation: Submit manufacturer's standard warranty.

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
 - 1. Manufacturer regularly engaged, for past 5 years, in manufacture of asphalt athletic court surface color coating systems of similar type to that specified.
 - 2. United States owned company.
 - 3. Member: ASBA.
- B. Source Limitations: Obtain Court Surfacing System materials through one source, from a single manufacturer.
- C. Applicator's Qualifications:
 - 1. Applicator regularly engaged, for past 3 years, in application of athletic court surface color coating systems of similar type to that specified.

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2. Employ persons trained for application of athletic court surface color coating systems.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
 1. Store and handle materials in accordance with manufacturer's instructions.
 2. Keep materials in manufacturer's original, unopened containers and packaging until application.
 3. Store materials in clean, dry area indoors.
 4. Store materials out of direct sunlight.
 5. Keep materials from freezing.
 6. Protect materials during storage, handling, and application to prevent contamination or damage.
 7. Close containers when not in use.

1.06 AMBIENT CONDITIONS

- A. Do not apply asphalt athletic court surface color coating system when air or surface temperatures are below 50 degrees F during application or within 24 hours after application.
- B. Do not apply asphalt athletic court surface color coating system when rain is expected during application or within 24 hours after application.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Basis of Design:

SportMaster Sport Surfaces
PO Box 2277
2520 South Campbell Street
Sandusky, Ohio 44870
Toll Free 800-326-1994. Fax 877-825-9226
Website www.sportmaster.net
E-mail info@sportmaster.net.
1. Or comparable product by:
 - a. California Sports Surfaces – Plexipave
 - b. SealMaster – Acrylic Tennis and Basketball Courts Surfaces
 - c. Acrytech Sports Surfaces – Colorguard Textured

2.02 MATERIALS

- A. Asphalt Athletic Court Surface Color Coating System: SportMaster Color Coating System.
- B. Filler Course: SportMaster "Acrylic Resurfacer".
 1. 100 percent acrylic emulsion resurfacer.

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2. Mix on-site with silica sand.
 3. Apply to asphalt surfaces or previously colored acrylic surfaces in preparation of color coating system.
 4. Chemical Characteristics, by Weight, Minimum:
 - a. Acrylic Emulsion: 44.0 percent.
 - b. Hiding Pigment: 2.0 percent.
 - c. Mineral Inert Fillers: 5.0 percent.
 - d. Film Formers, Additives: 0.2 percent.
 - e. Water: 45.0 percent.
 5. Weight per Gallon at 77 Degrees F: 8.5 lbs., plus or minus 0.5 lbs.
 6. Non-Volatile Material: 27.5 percent, plus or minus 5.0 percent.
 7. Color: Black or Neutral.
- C. Color Coating: SportMaster "ColorPlus System".
1. 100 percent acrylic emulsion coating.
 2. Mix on-site with silica sand and water.
 3. Color coats athletic, tennis, and multipurpose courts.
 4. Weight per Gallon at 77 Degrees F: 9.2 lbs., plus or minus 0.5 lbs.
 5. Color: (Owner to verify color selections during submittal process)
 - a. Color A: Light Blue
 - b. Color B: Light Green
- D. Line Markings Primer: SportMaster "Stripe-Rite".
1. 100 percent acrylic emulsion primer, clear drying.
 2. Primes line markings and prevents bleed-under for sharp lines.
 3. Chemical Characteristics, by Weight, Nominal:
 - a. Acrylic Emulsion: 38.0 percent.
 - b. Hiding Pigment: 0.0 percent.
 - c. Mineral Inert Fillers: 7.0 percent.
 - d. Film Formers, Additives: 1.5 percent.
 - e. Water: 50.0 percent.
 4. Weight per Gallon at 77 Degrees F: 8.9 lbs., plus or minus 0.5 lbs.
 5. Non-Volatile Material: 29 percent, plus or minus 5 percent.
 6. Width: 2 inch
- E. Line Paint: SportMaster "Textured Line Paint".
1. Pigmented, 100 percent acrylic emulsion line paint.
 2. Line marking on asphalt athletic courts.
 3. Chemical Characteristics, by Weight, Nominal:

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- a. Acrylic Emulsion: 25.89 percent.
- b. Pigment: 14.90 percent.
- c. Mineral Inert Fillers: 13.12 percent.
- d. Additives: 4.73 percent.
- e. Water: 41.36 percent.
4. Weight per Gallon at 77 Degrees F: 10.65 lbs., plus or minus 0.75 lbs.
5. Non-Volatile Material: 45.17 percent, plus or minus 5 percent.
6. Color: White.
7. Width: 2 inch.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine asphalt athletic court surfaces to receive color coating system.
- B. Verify asphalt athletic courts meet ASBA requirements.
- C. Notify Owner's Representative of conditions that would adversely affect application or subsequent use.
- D. Do not begin surface preparation or application until unacceptable conditions are corrected.

3.02 SURFACE PREPARATION

- A. Protection of In-Place Conditions: Protect adjacent surfaces and landscaping from contact with asphalt athletic court surface color coating system.
- B. Prepare surfaces in accordance with manufacturer's instructions.
- C. Cure new asphalt surfaces a minimum of 14 to 30 days before application of asphalt athletic court surface color coating system.
- D. Remove dirt, dust, debris, oil, grease, vegetation, loose materials, and other surface contaminants which could adversely affect application of asphalt athletic court surface color coating system. Pressure wash entire surface.
- E. Repair cracks, depressions, and surface defects in accordance with manufacturer's instructions before application of filler course and color coating.
- F. Level depressions 1/8 inch and deeper with patch binder in accordance with manufacturer's instructions.
- G. Apply 1 or 2 coats of filler course as required by surface roughness and porosity to provide smooth underlayment for application of color coating.
- H. Ensure surface repairs are flush and smooth to adjoining surfaces.

3.03 APPLICATION

- A. Apply asphalt athletic court surface color coating system in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Mix materials in accordance with manufacturer's instructions.
- C. Apply Filler Course and Color Coating with a 50-60 durometer, soft rubber squeegee.

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- D. Filler Course:
 - 1. Apply 2 coats on new asphalt or existing acrylic surfaces with extensive cracks or low spot repair.
 - 2. Apply 1 coat on existing acrylic surfaces with minimal repairs.
- E. Color Coating: Apply a minimum of 2 coats of color coating to prepared surfaces in accordance with manufacturer's instructions.
- F. Allow material drying times in accordance with manufacturer's instructions before applying other materials or opening completed surface to foot traffic.

3.04 LINE MARKINGS

- A. Lay out athletic court line markings in accordance with NFHSA Rules.
- B. Apply line markings primer, after masking tape has been laid to seal voids between masking tape and athletic court surface to prevent bleed-under when line paint is applied.
- C. Apply a minimum of 1 coat of line paint in accordance with manufacturer's instructions.

3.05 PROTECTION

- A. Allow a minimum of 24 hours curing time before opening athletic courts for play.
- B. Protect applied asphalt athletic court surface color coating system to ensure that, except for normal weathering, coating system will be without damage or deterioration at time of Substantial Completion.

END OF SECTION 32 18 23.53

**SECTION 32 31 13
CHAIN LINK FENCES AND GATES**

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Chain-link Backstop for athletic courts.
 - 2. Swing gates.

1.02 PREINSTALLATION MEETINGS

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

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For each type of fence and gate assembly.
 - 1. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples: For each exposed product and for each color and texture specified.
- D. Delegated-Design Submittal: For structural performance of chain-link fence, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.04 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Product test reports.
- C. Sample warranty.

1.05 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of chain-link fences and gates that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Chain-link fence and gate frameworks shall withstand the design wind loads and stresses for fence height(s) and under exposure conditions indicated according to ASCE/SEI 7:
 - 1. Design Wind Load: Per ASCE 7/10.

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- a. Minimum Post Size and Maximum Spacing: Determine according to CLFMI WLG 2445, based on mesh size and pattern specified.

2.02 CHAIN-LINK FENCE FABRIC

- A. General: Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist according to "CLFMI Product Manual" and requirements indicated below:
 1. Fabric Height: As indicated on Drawings.
 2. Steel Wire for Fabric: Wire diameter of 0.148 inch.
 - a. Mesh Size: 1-3/4 inches.
 - b. Polymer-Coated Fabric: ASTM F668, over coated steel wire.
 - 1) Color: Black, according to ASTM F934.
 - c. Coat selvage ends of metallic-coated fabric before the weaving process with manufacturer's standard clear protective coating.
 3. Selvage: Knuckled at both selvages.

2.03 FENCE FRAMEWORK

- A. Posts and Rails ASTM F1043 for framework, including rails, braces, and line; terminal; and corner posts. Provide members with minimum dimensions and wall thickness according to ASTM F1043 or ASTM F1083 based on the following:
 1. Fence Height: As indicated on Drawings.
 2. Horizontal Framework Members: Intermediate top and bottom rails according to ASTM F1043.
 3. Heavy-Industrial-Strength Material: Round Steel Pipe, Schedule 40
 - a. Line Post as indicated on Drawings
 - b. End, Corner, and Pull Posts as indicated on Drawings
 4. Brace Rails: ASTM F1043.
 5. Metallic Coating for Steel Framework:
 - a. Type A zinc coating.
 - b. Type B zinc with organic overcoat.
 - c. External, Type B zinc with organic overcoat and internal, Type D zinc-pigmented coating.
 - d. Type C, Zn-5-Al-MM alloy coating.
 - e. Coatings: Black polymer coated.
 6. Polymer coating over metallic coating.
 - a. Color: Black, according to ASTM F934.

2.04 SWING GATES

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- A. General: ASTM F 900 for gate posts and swing gate types.
 - 1. Gate Leaf Width: As indicated on drawings
- B. Pipe and Tubing
 - 1. Zinc-Coated Steel: ASTM F 1043 and ASTM F 1083; protective coating and finish to match fence framework.
- C. Frame Corner Construction: Welded
- D. Extended Gate Posts and Frame Members: Fabricate gate posts and frame end members to extend as indicated above top of chain-link fabric at both ends of gate frame.
- E. Hardware:
 - 1. Hinges: 180-degree inward swing.
 - 2. Latch: Permitting operation from both sides of gate with provision for padlocking accessible from both sides of gate.

2.05 FITTINGS

- A. Provide fittings according to ASTM F626.
- B. Finish:
 - 1. Metallic Coating for Pressed Steel or Cast Iron: Not less than 1.2 oz./sq. ft. of zinc. Black powder coated.
 - 2. Aluminum: Black powder coated.

2.06 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout, recommended in writing by manufacturer, for exterior applications.
- B. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating, and that is recommended in writing by manufacturer for exterior applications.

2.07 DRAWING REFERENCE

- A. See plans and details for types and heights of chain link fencing.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Do not begin installation before final grading is completed unless otherwise permitted by Architect.

3.02 PREPARATION

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- A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.03 CHAIN-LINK FENCE INSTALLATION

- A. Install chain-link fencing according to ASTM F567 and more stringent requirements specified.
- B. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- C. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 - 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 - 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - a. Exposed Concrete: Extend 2 inches above grade; shape and smooth to shed water.
 - b. Concealed Concrete: Place top of concrete 2 inches below grade to allow covering with surface material.
 - c. Posts Set into Sleeves in Concrete: Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts are inserted into sleeves, fill annular space between post and sleeve with nonshrink, nonmetallic grout or anchoring cement, mixed and placed according to anchoring material manufacturer's written instructions. Finish anchorage joint to slope away from post to drain water.
 - d. Posts Set into Holes in Concrete: Form or core drill holes not less than 5 inches deep and 3/4 inch larger than OD of post. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout or anchoring cement, mixed and placed according to anchoring material manufacturer's written instructions. Finish anchorage joint to slope away from post to drain water.
- D. Terminal Posts: Install terminal end, corner, and gate posts according to ASTM F567 and terminal pull posts at changes in horizontal or vertical alignment of as indicated on Drawings. For runs exceeding 500 feet, space pull posts an equal distance between corner or end posts.
- E. Line Posts: Space line posts uniformly at equal to height of fence o.c.
- F. Chain-Link Fabric: Apply fabric to outside inside of enclosing framework. Leave 0 inches bottom clearance between finish grade or surface and bottom selvage unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.

3.04 GATE INSTALLATION

- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using temper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation.

3.05 ADJUSTING

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- A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware and other moving parts.

END OF SECTION 32 31 13

SECTION 32 91 13
SOIL PREPARATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes planting soils and layered soil assemblies specified by composition of the mixes.
- B. Related Requirements:
 - 1. Section 32 92 00 "Turf and Grasses."

1.3 DEFINITIONS

- A. AAPFCO: Association of American Plant Food Control Officials.
- B. Backfill: The earth used to replace or the act of replacing earth in an excavation. This can be amended or unamended soil as indicated.
- C. CEC: Cation exchange capacity.
- D. Compost: The product resulting from the controlled biological decomposition of organic material that has been sanitized through the generation of heat and stabilized to the point that it is beneficial to plant growth.
- E. Duff Layer: A surface layer of soil, typical of forested areas, that is composed of mostly decayed leaves, twigs, and detritus.
- F. Imported Soil: Soil that is transported to Project site for use.
- G. Layered Soil Assembly: A designed series of planting soils, layered on each other, that together produce an environment for plant growth.
- H. Manufactured Soil: Soil produced by blending soils, sand, stabilized organic soil amendments, and other materials to produce planting soil.
- I. NAPT: North American Proficiency Testing Program. An SSSA program to assist soil-, plant-, and water-testing laboratories through interlaboratory sample exchanges and statistical evaluation of analytical data.

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- J. Organic Matter: The total of organic materials in soil exclusive of undecayed plant and animal tissues, their partial decomposition products, and the soil biomass; also called "humus" or "soil organic matter."
- K. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified as specified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.
- L. RCRA Metals: Hazardous metals identified by the EPA under the Resource Conservation and Recovery Act.
- M. SSSA: Soil Science Society of America.
- N. Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.
- O. 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.
- P. 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.
- Q. USCC: U.S. Composting Council.

1.4 REFERENCES

- A. The following specifications and standards of the organizations and documents listed in this paragraph form a part of the Specification to the extent required by the references thereto. In the event that the requirements of the following referenced standards and specification conflict with this specification section the requirements of this specification shall prevail. In the event that the requirements of any of the following referenced standards and specifications conflict with each other the more stringent requirement shall prevail.
 - 1. ASTM: American Society of Testing Materials cited section numbers.
 - 2. U.S. Department of Agriculture, Natural Resources Conservation Service, 2003. National Soil Survey Handbook, title 430-VI. Available Online.
 - 3. US Composting Council www.compostingcouncil.org
 - 4. *Methods of Soil Analysis*, as published by the Soil Science Society of America (<http://www.soils.org/>).
 - 5. Up by Roots: healthy soils and trees in the built environment. 2008. J. Urban. International Society of Arboriculture, Champaign, IL.

1.5 PRE-INSTALLATION MEETINGS

- A. Pre-installation Meeting: Conduct meeting at Project Site. Confirm with Owner and Landscape Architect 14 days prior to conference. At a minimum review the following:
 - 1. Ensure required submittals have been provided with sufficient time for review prior to scheduling the Preinstallation Meeting.
 - 2. Review the detailed requirements for the work of this section and to review the drawings and specifications for this work
 - 3. Require attendance by all affected installers including but not limited to:

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- a. Contractor's superintendent.
 - b. Installer
 - c. Manufacturer/Fabricator Representative
 - d. Other affected Subcontractors
 - e. Architect/Engineer of Record
 - f. Owner Representative
4. Record minutes and distribute copies within 5 days after meeting to participants as well as Landscape Architect, Architect/Engineer of Record, Owner and those affected by decisions made.

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 1. Manufacturer's written instructions for recommended maintenance practices.
 2. Include recommendations for application and use.
 3. Include test data substantiating that products comply with requirements.
 4. Include sieve analyses for aggregate materials.
 5. Material Certificates: For each type of imported soil and soil amendment and fertilizer before delivery to the site, according to the following:
 - a. Manufacturer's qualified testing agency's certified analysis of standard products.
 - b. Analysis of fertilizers, by a qualified testing agency, made according to AAPFCO methods for testing and labeling and according to AAPFCO's SUIP #25.
 - c. Analysis of nonstandard materials, by a qualified testing agency, made according to SSSA methods, where applicable.
- B. Soil testing for Imported and Existing Topsoil, existing site soil to be modified as Planting Soil and Planting Soil Mixes and associated amendments.
 1. Topsoil, existing site soil and Planting Soil Mix testing: Submit soil test analysis report for each sample of Topsoil, existing site soil and Planting Soil from an approved soil-testing laboratory and where indicated in Part 2.
- C. Samples: For each bulk-supplied material, 1-quart (1-L) volume of each in sealed containers labeled with content, source, and date obtained. Each Sample shall be typical of the lot of material to be furnished; provide an accurate representation of composition, color, and texture.
 1. Submit samples a minimum of 4 weeks prior to the anticipated date of the start of soil installation.
 2. Samples of all Soil and Soil amendments if required shall be submitted at the same time as the particle size and physical analysis of that material.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer, Fabricator, Manufacturer and Testing agency.
- B. Preconstruction Test Reports: For preconstruction soil analyses specified in "Preconstruction Testing" Article.
- C. Source quality-control test reports.

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- A. Field quality-control and special inspection reports.
- B. Maintenance Instructions.
- C. Warranty: Written manufacturer's warranty.

1.8 CLOSEOUT SUBMITTALS

- A. Maintenance Data: From Installer including a recommended maintenance plan with procedures for inspection and care during a calendar year. Submit before start of required warranty and maintenance periods

1.9 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of Authorities Having Jurisdiction for all work included in this section.
- B. Codes and Standards: Conform work to all applicable codes and standards.
- C. Manufacturer Qualifications: Provide manufacturer qualifications as follows:
 - 1. Submit a list of ten completed installations. For each installation provide: name and type of facility; its location; the date of installation; name and telephone number of contact at the facility familiar with the installation.
 - 2. Submit qualifications of manufacturer.
 - 3. Submit manufacturer's quality control program.
 - 4. Submit example of Material Warranty and any other applicable warranties.
- D. Installer Qualifications: The installer shall be a firm having at least 5 years of successful experience of a scope similar to that required for the Work, including the preparation, mixing and installation of custom planting. The installer of the work in Section: Planting, shall be the same firm installing the work in this section.
 - 1. The bidders list for work under this section shall be approved by the Landscape Architect.
 - 2. Installer Field Supervision: When any Planting Soil work is in progress, installer shall maintain, on site, an experienced full-time supervisor who can communicate in English with the Landscape Architect.
 - 3. Installer's field supervisor shall have a minimum of five years of experience as a field supervisor installing soil, and shall be trained and proficient in the use of field surveying equipment to establish grades.
 - 4. The installer's crew shall be experienced in the installation of Planting Soil, plantings, and irrigation (where applicable) and interpretation of planting plans, soil installation plans, and irrigation plans (where applicable).
 - 5. Submit references of past projects, employee training certifications that support that the Contractors meets all of the above installer qualifications and applicable licensures.
- E. Testing Agency Qualifications: An independent, state-operated, or university-operated laboratory; experienced in soil science, soil testing, and plant nutrition; with the experience and capability to conduct the testing indicated; and that specializes in types of tests to be performed.
 - 1. Multiple Laboratories: At Contractor's option, work may be divided among qualified testing laboratories specializing in physical testing, chemical testing, and fertility testing.

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- F. All delivered and installed Planting Soil shall conform to the approved sample color, texture and approved test analysis.
 - 1. The Landscape Architect may request samples of the delivered or installed soil be tested for analysis to confirm the Planting Soil conforms to the approved material.
 - 2. All testing shall be performed by the same soil lab that performed the original Planting Soil testing.
 - 3. Testing results shall be within 10% plus or minus of the values measured in the approved Planting Soil Mixes.
 - 4. Any Planting Soil that fails to meet the above criteria, if requested by the Landscape Architect, shall be removed and new soil installed.
- G. Soil compaction testing: following installation or modification of soil, test soil compaction with a penetrometer.
 - 1. Maintain at the site at all times a soil cone penetrometer with pressure dial and a soil moisture meter to check soil compaction and soil moisture.
 - 2. Prior to testing the soil with the penetrometer check the soil moisture and penetrometer readings in the mockup soils. Penetrometer readings are impacted by soil moisture and excessively wet or dry soils will read significantly lower or higher than soils at optimum moisture.
 - 3. The penetrometer readings shall be within 20% plus or minus of the readings in the approved mockup when at similar moisture levels.

1.10 PRECONSTRUCTION TESTING

- A. Preconstruction Testing Service: Engage a qualified testing agency to perform preconstruction soil analyses and analysis on related components.
 - 1. Notify Landscape Architect seven days in advance of the dates and times when laboratory samples will be taken.
- B. Preconstruction Soil Analyses: For each unamended soil type, perform testing on soil samples and furnish soil analysis and a written report containing soil-amendment and fertilizer recommendations by a qualified testing agency performing the testing according to "Soil-Sampling Requirements" and "Testing Requirements" articles.
 - 1. Have testing agency identify and label samples and test reports according to sample collection and labeling requirements.

1.11 SOIL-SAMPLING REQUIREMENTS

- A. General: Extract soil samples according to requirements in this article.
- B. Sample Collection and Labeling: Have samples taken and labeled by Contractor in presence of Landscape Architect or state-certified, -licensed, or -registered soil scientist under the direction of the testing agency.
 - 1. Number and Location of Samples: Minimum of three representative soil samples from varied locations for each soil to be used or amended for landscaping purposes.
 - 2. Procedures and Depth of Samples: According to USDA-NRCS's "Field Book for Describing and Sampling Soils."

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3. Division of Samples: Split each sample into two, equal parts. Send half to the testing agency and half to Owner for its records.
4. Labeling: Label each sample with the date, location keyed to a site plan or other location system, visible soil condition, and sampling depth.

1.12 TESTING REQUIREMENTS

- A. General: Perform tests on soil samples according to requirements in this article.
- B. Physical Testing:
 1. Soil Texture: Soil-particle, size-distribution analysis by one of the following methods according to SSSA's "Methods of Soil Analysis - Part 1-Physical and Mineralogical Methods":
 - a. Sieving Method: Report sand-gradation percentages for very coarse, coarse, medium, fine, and very fine sand; and fragment-gradation (gravel) percentages for fine, medium, and coarse fragments; according to USDA sand and fragment sizes.
 - b. Hydrometer Method: Report percentages of sand, silt, and clay.
 2. Total Porosity: Calculate using particle density and bulk density according to SSSA's "Methods of Soil Analysis - Part 1-Physical and Mineralogical Methods."
 3. Water Retention: According to SSSA's "Methods of Soil Analysis - Part 1-Physical and Mineralogical Methods."
 4. Saturated Hydraulic Conductivity: According to SSSA's "Methods of Soil Analysis - Part 1-Physical and Mineralogical Methods"; at 85% compaction according to ASTM D 698 (Standard Proctor).
- C. Chemical Testing:
 1. CEC: Analysis by sodium saturation at pH 7 according to SSSA's "Methods of Soil Analysis - Part 3- Chemical Methods."
 2. Clay Mineralogy: Analysis and estimated percentage of expandable clay minerals using CEC by ammonium saturation at pH 7 according to SSSA's "Methods of Soil Analysis - Part 1- Physical and Mineralogical Methods."
 3. Metals Hazardous to Human Health: Test for presence and quantities of RCRA metals including aluminum, arsenic, barium, copper, cadmium, chromium, cobalt, lead, lithium, and vanadium. If RCRA metals are present, include recommendations for corrective action.
 4. Phytotoxicity: Test for plant-available concentrations of phytotoxic minerals including aluminum, arsenic, barium, cadmium, chlorides, chromium, cobalt, copper, lead, lithium, mercury, nickel, selenium, silver, sodium, strontium, tin, titanium, vanadium, and zinc.
- D. Fertility Testing: Soil-fertility analysis according to standard laboratory protocol of SSSA NAPT NCR-13, including the following:
 1. Percentage of organic matter.
 2. CEC, calcium percent of CEC, and magnesium percent of CEC.
 3. Soil reaction (acidity/alkalinity pH value).
 4. Buffered acidity or alkalinity.
 5. Nitrogen ppm.
 6. Phosphorous ppm.
 7. Potassium ppm.
 8. Manganese ppm.

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9. Manganese-availability ppm.
 10. Zinc ppm.
 11. Zinc availability ppm.
 12. Copper ppm.
 13. Sodium ppm and sodium absorption ratio.
 14. Soluble-salts ppm.
 15. Presence and quantities of problem materials including salts and metals cited in the Standard protocol. If such problem materials are present, provide additional recommendations for corrective action.
 16. Other deleterious materials, including their characteristics and content of each.
- E. Organic-Matter Content: Analysis using loss-by-ignition method according to SSSA's "Methods of Soil Analysis - Part 3- Chemical Methods."
- F. Recommendations: Based on the test results, state recommendations for soil treatments and soil amendments to be incorporated to produce satisfactory planting soil suitable for healthy, viable plants indicated. Include, at a minimum, recommendations for nitrogen, phosphorous, and potassium fertilization, and for micronutrients.
1. Fertilizers and Soil Amendment Rates: State recommendations in weight per 1000 sq. ft. (100 sq. m) for 6-inch (150-mm) depth of soil.
 2. Soil Reaction: State the recommended liming rates for raising pH or sulfur for lowering pH according to the buffered acidity or buffered alkalinity in weight per 1000 sq. ft. (100 sq. m) for 6-inch (150-mm) depth of soil.

1.13 DELIVERY, STORAGE, AND HANDLING

- A. Deliver packaged products in an undamaged condition in original containers, displaying manufacturer's labels, along with instructions for handling, storing, unpacking, protecting, and installing.
- B. Deliver and store materials in manufacturer's original containers, with seals unbroken and identification labels intact until time of use.
- C. Deliver products to achieve the shortest duration of storage time as practicable.
- D. Deliver all chemical products in original, unopened containers with original labels intact and legible, which state the guaranteed chemical analysis. Store all chemicals in weather protected enclosure.
- E. Comply with manufacturer's written instructions for delivery, storage, and handling, and as required to prevent damage to products and work during construction.
- F. Store products and materials in a neat and orderly manner. Maintain clear aisles and access to work areas. Protect stored products from theft and damage. Store products above ground in weathertight, ventilated packaging or enclosures.
- G. Store materials under cover and protected from weather and contact with damp or wet surfaces. Stack lumber flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.
- H. Store liquids in tightly closed containers protected from freezing.

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- I. 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 if applicable.
- J. Bulk Materials:
 - 1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
 - 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.
- K. Weather: Do not mix, deliver, place or grade soils when frozen or with moisture above field capacity.
- L. Protect soil and soil stockpiles, including the stockpiles at the soil blender's yard, from wind, rain and washing that can erode soil or separate fines and coarse material, and contamination by chemicals, dust and debris that may be detrimental to plants or soil drainage. Cover stockpiles with plastic sheeting or fabric at the end of each workday.
- M. All manufactured packaged products and material shall be delivered to the site in unopened containers and stored in a dry enclosed space suitable for the material and meeting all environmental regulations. Biological additives shall be protected from extreme cold and heat. All products shall be freshly manufactured and dated for the year in which the products are to be used.
- N. Deliver all chemical amendments in original, unopened containers with original labels intact and legible, which state the guaranteed chemical analysis. Store all chemicals in weather protected enclosure.
- O. Bulk material: Coordinate delivery and storage with Landscape Architect and confine materials to neat piles in areas acceptable to Landscape Architect.

1.14 FIELD CONDITIONS

- A. It is the responsibility of the Contractor to be aware of all surface and subsurface conditions, and to notify the Landscape Architect, in writing, of any circumstances that would negatively impact the health of plantings. Do not proceed with work until unsatisfactory conditions have been corrected.
 - 1. Should subsurface drainage or soil conditions be encountered which would be detrimental to growth or survival of plant material, the Contractor shall notify the Landscape Architect in writing, stating the conditions and submit a proposal covering cost of corrections. If the Contractor fails to notify the Landscape Architect of such conditions, he/she shall remain responsible for plant material under the warranty clause of the specifications.
 - 2. This specification requires that all Planting Soil and Irrigation (if applicable) work be completed and accepted prior to the installation of any plants.
- B. Field Measurements: Verify actual locations of all site elements and other construction contiguous with the work of this section prior to fabrication and/or installation.

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- C. The work shall not occur in the presence of standing water, mud, snow, or frozen subgrade conditions. Work shall not occur while precipitation is occurring or during excessive winds, or when temperatures are outside the limits specified in this specification. Work completed during these conditions will be rejected.
- D. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.
- E. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace unit paver work damaged by frost or freezing.
- F. Hot-Weather Requirements: Comply with hot-weather construction requirements.

1.15 EXCAVATING AND GRADING AROUND UTILITIES

- A. Contractor shall carefully examine the civil, record, and survey drawings to become familiar with the existing underground conditions before digging.
- B. Determine location of underground utilities and perform work in a manner that will avoid damage. Hand excavate as required. Maintain grade stakes set by others until parties concerned mutually agree upon removal.
- C. Notification of the utility locate services is required for all Excavation and grading deeper than 12 inches: The Contractor is responsible for knowing the location and avoiding utilities that are not covered by the local utility locator service.

1.16 MAINTENANCE SERVICE

- A. Contractor to provide standard industry maintenance on all scope items herein until Final Acceptance.

PART 2 - PRODUCTS

2.1 PLANTING SOILS GENERAL

- A. General definition: Existing Soil or mixes of Existing Soil or Imported Topsoil, Coarse Sand, Expanded Shale, Pine Bark Fines, and/or Compost to make a new soil that meets the project goals for the indicated planting area. These will vary in Mix components and proportions as recommended by the Soils Consultant.
- B. In the event that harvesting of Existing Soil does not produce sufficient material, provide topsoil, and soil mixes that are similar to the specified soil.

2.2 IMPORTED TOPSOIL

- A. Imported Topsoil definition: Fertile, friable soil containing less than 5% total volume of the combination of debris including subsoil, refuse, roots larger than 1 inch diameter, heavy or stiff clay, stones larger than 2 inches in diameter, noxious seeds, sticks, brush, litter, or any

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substances deleterious to plant growth. The percent (%) of the above objects shall be controlled by source selection not by screening the soil.

- B. Topsoil shall be suitable for the germination of seeds and the support of vegetative growth. Imported Topsoil shall not contain weed seeds in quantities that cause noticeable weed infestations in the final planting beds. Imported Topsoil shall meet the following physical and chemical criteria:
1. Soil texture: USDA loam, sandy clay loam or sandy loam with clay content between 15 and 40%. And a combined clay/silt content of no more than 75%.
 2. pH value shall be between 5.5 and 7.5.
 3. Percent organic matter (OM): 2.0-8.0%, by dry weight.
 4. Soluble salt level: Less than 2 mmho/cm.
 5. Soil chemistry suitable for growing the plants specified.
 6. Imported Topsoil shall not contain quack-grass rhizomes, *Agropyron Repens*, and the nut-like tubers of nutgrass, *Cyperus Esculentus*, and all other primary noxious weeds seeds in quantities that cause noticeable weed infestations in the final planting beds.
- C. Imported Topsoil shall be a harvested soil from fields or development sites. The organic content and particle size distribution shall be the result of natural soil formation. Manufactured soils where Coarse Sand, Composted organic material or chemical additives has been added to the soil to meet the requirements of this specification section shall not be acceptable. Retained soil peds shall be the same color on the inside as is visible on the outside.

2.3 COMPOST

- A. Compost: Organic blended material, composted for a minimum of 9 months and at temperatures sufficient to break down all woody fibers, seeds and leaf structures, free of toxic materials at levels that are harmful to plants or humans. Source material shall be yard waste trimmings blended with other plant or manure based material designed to produce Compost high in fungal material.
1. Compost shall be commercially prepared Compost and meet US Compost Council STA/TMECC criteria.
 2. Compost shall comply with the following parameters:
 - a. pH: 5.5 - 8.0.
 - b. Soil salt (electrical conductivity): maximum 5 dS/m (mmhos/cm).
 - c. Moisture content %, wet weight basis: 30 – 60.
 - d. Particle size, dry weight basis: 98% pass through 3/4 inch screen or smear.
 - e. Stability carbon dioxide evolution rate: mg CO₂-C/ g OM/ day < 2.
 - f. Solvita maturity test: > 6.
 - g. Physical contaminants (inerts), %, dry weight basis: <1%.
 - h. Chemical contaminants, mg/kg (ppm): meet or exceed US EPA Class A standard, 40CFR § 503.13, Tables 1 and 3 levels.
 - i. Biological contaminants select pathogens fecal coliform bacteria, or salmonella, meet or exceed US EPA Class A standard, 40 CFR § 503.32(a) level requirements.

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2.4 FERTILIZER AMENDMENTS

- A. Fertilizer for planting shall be organic, slow release fertilizer with a salt index of 25 or less. The majority of the nutrient elements are from organic sources. Final fertilizer selections shall be based on the soil testing and recommendations of the Soils Consultant.

2.5 LIME

- A. ASTM C 602, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent and as follows:
1. Class: Class T, with a minimum 99 percent passing through No. 8 (2.36-mm) sieve and a minimum 75 percent passing through No. 60 (0.25-mm) sieve.
 2. Provide lime in form of dolomitic limestone.

2.6 SOIL MOISTURE

- A. Volumetric soil moisture level, in both the Planting Soil and the root balls of all plants, prior to, during and after planting shall be above permanent wilt point and below field capacity for each type of soil texture within the following ranges.

Soil texture	Permanent wilting point	Field capacity
Sand, Loamy sand, Sandy loam	5-8%	12-18%
Loam, Sandy clay, Sandy clay loam	14-25%	27-36%
Clay loam, Silt loam	11-22%	31-36%
Silty clay, Silty clay loam	22-27%	38-41%

1. Note the above chart is not applicable to soils with Light Weight Aggregate. Ranges of appropriate soil moisture for these soils shall be developed once the soils are in place and can be tested with the moisture meter.
2. Contractor to test for soil moisture content prior to installation.

PART 3 - EXECUTION

3.1 GENERAL

- A. Place planting soil and fertilizers according to requirements Section.
- B. 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 planting soil.
- C. Proceed with placement only after unsatisfactory conditions have been corrected.

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3.2 EXAMINATION

- A. Prior to installation of Planting Soil, examine site to confirm that existing conditions are satisfactory for the work of this section to proceed.
 - 1. Confirm that the subgrade is at the proper elevation and compacted as required. Subgrade elevations shall slope toward the under drain lines as shown on the drawings.
 - 2. Confirm that surface all areas of the to be filled with Planting Soil are free of construction debris, refuse, compressible or biodegradable materials, stones greater than 2 inches diameter, soil crusting films of silt or clay that reduces or stops drainage from the Planting Soil into the subsoil; and/or standing water. Remove unsuitable material from the site.
 - 3. Confirm that no adverse drainage conditions are present.
 - 4. Confirm that no conditions are present which are detrimental to plant growth.
 - 5. Confirm that utility work has been completed per the drawings.
 - 6. Confirm that irrigation work, which is shown to be installed below prepared soil levels, has been completed.
- B. If unsatisfactory conditions are encountered, notify the Landscape Architect immediately to determine corrective action before proceeding.

3.3 COORDINATION WITH PROJECT WORK

- A. The Contractor is responsible for investigating, and being aware of, the work requirements of their sub-contractors and other contractors. The Contractor shall coordinate with all other work that may impact the completion of the work herein.
- B. The Contractor shall coordinate with all other work that may impact the completion of the work.
- C. Prior to the start of work, prepare a detailed schedule of the work for coordination with other trades.
- D. Coordinate the relocation of any irrigation lines, heads or the conduits of other utility lines that are in conflict with tree locations. Root balls shall not be altered to fit around lines. Notify the Landscape Architect of any conflicts encountered.

3.4 PREPARATION OF UNAMENDED, ON-SITE SOIL BEFORE AMENDING

- A. Excavation: Excavate soil from designated area(s) and stockpile until amended. Maintain all required angles of repose of the adjacent materials as shown on the drawings or as required by this specification. Do not over excavate compacted subgrades of adjacent pavement or structures. Maintain a supporting 1:1 side slope of compacted subgrade material along the edges of all paving and structures where the bottom of the paving or structure is above the bottom elevation of the excavated planting area.
- B. Unacceptable Materials: Clean soil of concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.
- C. Unsuitable Materials: Clean soil to contain a maximum of 8 percent by dry weight of stones, roots, plants, sod, clay lumps, and pockets of coarse sand.
- D. Screening: Pass unamended soil through a 2-inch (50-mm) sieve to remove large materials.

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3.5 PLANTING SOIL AND PLANTING SOIL MIX INSTALLATION

- A. Prior to installing any Planting Soil from stockpiles or Planting Soil Mixes blended off site, the Landscape Architect shall approve the condition of the subgrade and the previously installed subgrade preparation and the installation of subsurface drainage.
- B. Phase work such that equipment to deliver or grade soil does not have to operate over previously installed Planting Soil. Work in rows of lifts the width of the extension of the bucket on the loader. Install all lifts in one row before proceeding to the next. Work out from the furthest part of each bed from the soil delivery point to the edge of the each bed area.
- C. Where possible place large trees first and fill Planting Soil around the root ball.
- D. Installing soil with soil or mulch blowers or soil slingers shall not be permitted due to the over mixing and soil ped breakdown cause by this type of equipment.
- E. Where travel over installed soil is unavoidable, limit paths of traffic to reduce the impact of compaction in Planting Soil. Each time equipment passes over the installed soil it shall reverse out of the area along the same path with the teeth of the bucket dropped to scarify the soil. Comply with the paragraph "Compaction Reduction" (section 3.9) in the event that soil becomes over compacted.
- F. The depths and grades shown on the drawings are the final grades after settlement and shrinkage of the organic material. The Contractor shall install the Planting Soil at a higher level to anticipate this reduction of Planting Soil volume. A minimum settlement of approximately 10 - 15% of the soil depth is expected. All grade increases are assumed to be as measured prior to addition of surface Compost till layer, mulch, or sod.

3.6 BLENDING PLANTING SOIL IN PLACE

- A. General: Mix amendments with in-place, unamended soil to produce required planting soil. Do not apply materials or till if existing soil or subgrade is frozen, muddy, or excessively wet.
- B. Preparation: Till unamended, existing soil in planting areas to a minimum depth of 6 inches (150 mm). Remove stones larger than 2-inch (50-mm) in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.
- C. Mixing: Apply soil amendments, except compost, and fertilizer, if required, evenly on surface, and thoroughly blend them into full depth of unamended, in-place soil to produce planting soil.
 - 1. Mix lime and sulfur with dry soil before mixing fertilizer.
 - 2. Mix fertilizer with planting soil no more than seven days before planting.
 - 3. Blended soil to be per the Soil Consultant recommendations.
- D. Compaction: Compact blended planting soil to 75 to 82 percent of maximum Standard Proctor density according to ASTM D 698 except where a different compaction value is indicated on Drawings.
- E. Finish Grading: Grade planting soil to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

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3.7 APPLYING COMPOST TO SURFACE OF PLANTING SOIL

- A. Application: Apply compost component of planting-soil mix to surface of in-place planting soil. Do not apply materials or till if existing soil or subgrade is frozen, muddy, or excessively wet. After Planting Soil Mixes are installed in planting bed areas noted on the drawing and just prior to the installation of shrub or groundcover plantings, spread 2 - 3 inches of Compost over the beds and roto till into the top 4 - 6 inches of the Planting Soil.
- B. Finish Grading: Grade surface to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.8 INSTALLATION OF FERTILIZER AMENDMENTS

- A. Following the installation of each soil and prior to fine grading and installation of the Compost till layer, apply fertilizer additives as directed by the Soils Consultant, and appropriate to the soil and specific plants to be installed.
- B. Types, application rates and methods of application shall be approved by the Soils Consultant prior to any applications.

3.9 COMPACTION REQUIREMENTS FOR INSTALLED OR MODIFIED PLANTING SOIL

- A. Compact installed Planting Soil to the compaction rates indicated and using the methods approved for the soil mockup. Compact each soil lift as the soil is installed.
- B. Existing soil that is modified by tilling, ripping or fracturing shall have a density to the depth of the modification, after completion of the loosening, such that the penetrometer reads approximately 75 to 250 psi at soil moisture approximately the mid-point between wilting point and field capacity. This will be approximately between 75 and 82% of maximum dry density standard proctor.
- C. Installed Planting Soil Mix and re-spread existing soil shall have a soil density through the required depth of the installed layers of soil, such that the penetrometer reads approximately 75 to 250 psi at soil moisture approximately the mid-point between wilt point and field capacity. This will be approximately between 75 and 82% of maximum dry density standard proctor.
- D. Planting Soil compaction shall be tested at each lift using a penetrometer calibrated to the mockup soil and its moisture level. The same penetrometer and moisture meter used for the testing of the mockup shall be used to test installed soil throughout the work.
- E. Maintain moisture conditions within the Planting Soil during installation or modification to allow for satisfactory compaction. Suspend operations if the Planting Soil becomes wet. Apply water if the soil is overly dry.
- F. Provide adequate equipment to achieve consistent and uniform compaction of the Planting Soils. Use the smallest equipment that can reasonably perform the task of spreading and compaction. Use the same equipment and methods of compaction used to construct the Planting Soil mockup.
- G. Do not pass motorized equipment over previously installed and compacted soil except as authorized below.

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1. Light weight equipment such as trenching machines or motorized wheel barrows are permitted to pass over finished soil work.
2. If work after the installation and compaction of soil compacts the soil to levels greater than the above requirements, follow the requirements of the paragraph "Over Compaction Reduction" below.

3.10 OVER COMPACTION REDUCTION

- A. Any soil that becomes compacted to a density greater than the specified density shall be dug up and reinstalled. This requirement includes compaction caused by other subcontractors after the Planting Soil is installed and approved.
- B. Surface rototilling shall not be considered adequate to reduce over compaction at levels 6 inches or greater below finished grade.

3.11 MOISTURE SENSOR LEVELS

- A. Moisture Sensor Level: Moisture Sensor Level: The Contractor shall confirm the soil moisture levels with a moisture meter (Digital Soil Moisture Meter, DSMM500 by General Specialty Tools and Instruments, or approved equivalent). If moisture is found to be too low, the planting holes shall be filled with water and allowed to drain before starting any planting operations. If the moisture is too high, suspend planting operations until the soil moisture drains to below field capacity.

3.12 FINE GRADING

- A. The Landscape Architect shall approve all rough grading prior to the installation of organic matter, fine grading, planting, and mulching.
- B. Grade the finish surface of all planted areas to meet the grades shown on the drawings, allowing the finished grades to remain higher (10 – 15% of depth of soil modification) than the grades on the grading plan, as defined in paragraph Planting Soil Installation, to anticipate settlement over the first year.
- C. Utilize hand equipment or small garden tractors with rakes or buckets with teeth for fine grading to keep surface rough without further compaction. Do not use the bottom of a loader bucket that will cause the finished grade the smooth and or slightly compress.
- D. Provide for positive drainage from all areas toward the existing inlets, drainage structures and or the edges of planting beds. Adjust grades as directed to reflect actual constructed field conditions of paving, wall and inlet elevations. Notify the Landscape Architect in the event that conditions make it impossible to achieve positive drainage.
- E. Provide smooth, rounded transitions between slopes of different gradients and direction. Modify the grade so that the finish grade before adding mulch and after settlement is one or two inches below all paving surfaces or as directed by the drawings.
- F. Fill all dips and remove any bumps in the overall plane of the slope. The tolerance for dips and bumps in shrub and ground cover planting areas shall be a 2 inches deviation from the plane in 10 feet. The tolerance for dips and bumps in lawn areas shall be a 1 inch deviation from the plane in 10 feet.

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3.13 GRADE AND ELEVATION CONTROL

- A. Provide grade and elevation control during installation of Planting Soil. Utilize grade stakes, surveying equipment, and other means and methods to assure that grades and contours conform to the grades indicated on the plans.

3.14 INSTALLATION TOLERANCES

- A. Final soil installation after planting should be within 1/2 inch of grades shown on the grading plan.

3.15 REPAIR AND REPLACEMENT

- A. General: Repair or replace that is damaged by construction operations, in a manner approved by Landscape Architect.

3.16 PROTECTION

- A. Protection Zone: Identify protection zones according to Section 015639 "Temporary Tree and Plant Protection."
- B. Protect areas of in-place soil from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:
 - 1. Storage of construction materials, debris, or excavated material.
 - 2. Parking vehicles or equipment.
 - 3. Vehicle traffic.
 - 4. Foot traffic.
 - 5. Erection of sheds or structures.
 - 6. Impoundment of water.
 - 7. Excavation or other digging unless otherwise indicated.
- C. If planting soil or subgrade is overcompacted, disturbed, or contaminated by foreign or deleterious materials or liquids, remove the planting soil and contamination; Planting Soil shall be loosened or replaced at no expense to the Owner.
 - 1. Till and restore grades to all soil that has been driven over or compacted during the installation of plants.
 - 2. Where modified existing soil has become contaminated and needs to be replaced, provide imported soil that is of similar composition, depth and density as the soil that was removed.

3.17 CLEANING

- A. The contractor should clean the job site and remove any excess materials. Coordinate with Owner for storage locations for any Attic Stock materials where applicable.
- B. During installation, keep the site free of trash, pavements reasonably clean and work area in an orderly condition at the end of each day. Remove trash and debris in containers from the site no less than once a week.

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1. Immediately clean up any spilled or tracked soil, fuel, oil, trash or debris deposited by the Contractor from all surfaces within the project or on public right of ways and neighboring property.
 - C. Once installation is complete, wash all soil from pavements and other structures. Ensure that mulch is confined to planting beds and that all tags and flagging tape are removed from the site. The Landscape Architect seals are to remain on the trees and removed at the end of the warranty period.
 1. Make all repairs to grades, ruts, and damage to the work or other work at the site.
 2. Remove and dispose of all excess Planting Soil, subsoil, mulch, plants, packaging, and other material brought to the site by the Contractor.
- 3.18 FINAL ACCEPTANCE / SOIL SETTLEMENT
- A. At the end of the plant warrantee and maintenance period per Section 32 93 00 "Plants", the Landscape Architect shall inspect the soil installation work and establish that all provisions of the contract are complete and the work is satisfactory.
 1. Restore any soil settlement and or erosion areas to the grades shown on the drawings. When restoring soil grades remove and plants and mulch and add soil before restoring the planting. Do not add soil over the root balls of plants or on top of mulch.
 - B. Failure to pass inspection: If the work fails to pass final inspection, any subsequent inspections must be rescheduled as per above. The cost to the Owner for additional inspections will be charged to the Contractor at the prevailing hourly rate of the inspector.

END OF SECTION 32 91 13

SECTION 32 92 00

TURF AND GRASSES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Seeding
 - 2. Fertilizing
 - 3. Erosion Control Materials
- B. Related Requirements:
 - 1. Section 329113 "Soil Preparation" for planting soil.

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 include 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. See Section 32 91 13 "Soil Preparation" and drawing designations for planting soils.
- 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.
- F. Weeds: Includes Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory, Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Will, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, and Brome Grass.

1.4 REFERENCE STANDARDS

- A. ASTM C602 - Standard Specification for Agricultural Liming Materials; 2013a.

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1.5 PREINSTALLATION MEETINGS

- A. Pre-installation Meeting: Conduct meeting at Project Site. Confirm with Owner and Landscape Architect 14 days prior to conference. At a minimum review the following:
 - 1. Ensure required submittals have been provided with sufficient time for review prior to scheduling the Preinstallation Meeting.
 - 2. Review the detailed requirements for the work of this section and to review the drawings and specifications for this work
 - 3. Require attendance by all affected installers including but not limited to:
 - a. Contractor's superintendent.
 - b. Installer
 - c. Manufacturer
 - d. Other affected Subcontractors
 - e. Architect/Engineer of Record
 - f. Owner Representative
 - 4. Record minutes and distribute copies within 5 days after meeting to participants as well as Landscape Architect, Architect/Engineer of Record, Owner and those affected by decisions made.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer, Fabricator, Manufacturer and Testing agency.
- B. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture, stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.
- C. Product Certificates: For fertilizers, from manufacturer.
- D. Warranty: Written Manufacturer's warranty

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Include maintenance instructions, cutting method and maximum grass height; types, application frequency, and recommended coverage of fertilizer.

1.8 QUALITY ASSURANCE

- A. Comply with State and Federal laws with respect to inspection for plant diseases and insect infestation.
- B. Manufacturer Qualifications: Provide manufacturer qualifications as follows:
 - 1. Submit a list of ten completed installations. For each installation provide: name and type of facility; its location; the date of installation; name and telephone number of contact at the facility familiar with the installation.
 - 2. Submit qualifications of manufacturer.
 - 3. Submit manufacturer's quality control program.
 - 4. Submit example of Material Warranty and any other applicable warranties.

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- C. Investigate sources of supply and confirm they can supply materials in quantity, variety, and quality noted and specified before submitting bid.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Protect materials against weather-related damage or other injuries occurring during transit and job storage in such manner that their effectiveness will not be impaired.
- B. Deliver fertilizer to site in unopened, original containers, each bearing name and address of manufacturer, name brand, or trademark, and manufacturer's guaranteed analysis. Do not use fertilizer which becomes caked or otherwise damaged. Do not expose fertilizer to weather prior to delivery on site and after delivery until used. Protect fertilizer and do not store in direct contact with ground.
- C. Deliver products to achieve the shortest duration of storage time as practicable.
- D. Protect and maintain during transit or storage on-site as necessary to ensure vigorous growth after placement.
- E. Inform Landscape architect 24 hours in advance of laying of seed. Each shipment shall be accompanied by an invoice from vendor giving quantity and certifying that seed received meets requirements as contained in these specifications, together with analysis of seed. Provide copy of invoice to Architect/Engineer of Record upon delivery of seed.
- F. 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.

1.10 PROJECT CONDITIONS

- A. Planting Season for Seed Installation: March 15 to June 15 OR August 15 to November 15.
 - 1. Weather conditions within season shall govern actual planting periods.
 - 2. Seasons may be extended upon approval by Landscape Architect, however, such time extensions shall not change Contractor's responsibility for establishing healthy appearing and vigorous growing turf.
- 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.

1.11 MAINTENANCE SERVICE

- A. Contractor to provide standard industry maintenance on all scope items herein until Final Acceptance.

PART 2 - PRODUCTS

2.1 SEED

- A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Rules for Testing Seeds" for purity and germination tolerances.

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B. Seed Species:

1. Quality: State-certified seed of grass species as listed below for solar exposure.
2. Quality: Seed of grass species as listed below for solar exposure, with not less than 85 percent germination, not less than 95 percent pure seed, and not more than 0.5 percent weed seed:
3. Sun and Partial Shade: Proportioned by weight as follows:
 - a. 50 percent Kentucky bluegrass (*Poa pratensis*).
 - b. 30 percent chewings red fescue (*Festuca rubra* variety).
 - c. 20 percent perennial ryegrass (*Lolium perenne*).
4. Shade: Proportioned by weight as follows:
 - a. 50 percent chewings red fescue (*Festuca rubra* variety).
 - b. 35 percent rough bluegrass (*Poa trivialis*).
 - c. 15 percent redtop (*Agrostis alba*).

C. Topsoil: Type indicated and as specified in Section 32 91 13 "Soil Preparation."

D. Fertilizer: Prior To Seeding (6-24-24); recommended for grass, with fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil, to the following proportions:

1. Nitrogen: 6 percent.
 - a. One-quarter of nitrogen shall be in form of nitrates, one-quarter in form of ammonia salts, and one-half in form of organic nitrogen.
2. Phosphoric Acid: 24 percent.
 - a. Available phosphoric acid shall be derived from super-phosphate having minimum guaranteed analysis of 20% available phosphate or bone meal.
3. Soluble Potash: 24 percent.
 - a. Potash shall be in form of sulphate of potash.
4. Make up balance of fertilizer of nonharmful materials normally present in such product and free from dust, sticks, sand, stone or other harmful debris.

E. Fertilizer: After Seeding (18-5-9); recommended for grass, with fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil, to the following proportions:

1. Nitrogen: 18 percent.
2. Phosphoric Acid: 5 percent.
3. Soluble Potash: 9 percent.

F. Limestone: ASTM C602, class T agricultural limestone containing a minimum 80% total carbonates, by weight. Limestone shall be graded within following limits: 99% passing Sieve Size No 8; 75 % passing Sieve Size No 60.

G. Aluminum Sulfate: Commercial grade, unadulterated and delivered in containers with material and manufacturer, names and weight of contents.

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- H. Water: Clean, fresh and free of substances or matter that could inhibit vigorous growth of grass. Existing water supply from hose bibs at the project building may be used for all planting operations. Provide hose and equipment necessary for proper watering of plant material.

2.2 MULCHES

- A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.
- B. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic and free of plant-growth or germination inhibitors; with a maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.
- C. Nonasphaltic Tackifier: Colloidal tackifier recommended by fiber-mulch manufacturer for slurry application; nontoxic and free of plant-growth or germination inhibitors.
- D. The use of plastic netting is prohibited.

2.3 EROSION-CONTROL MATERIALS

- A. Erosion-Control Fiber Mesh: Biodegradable burlap or spun-coir mesh, a minimum of 0.92 lb/sq. yd. (0.5 kg/sq. m), with 50 to 65 percent open area. Include manufacturer's recommended steel wire staples, 6 inches (150 mm) long.
- B. Erosion-Control Mats: Cellular, nonbiodegradable slope-stabilization mats designed to isolate and contain small areas of soil over steeply sloped surface, of 6-inch (150-mm) nominal mat thickness. Include manufacturer's recommended anchorage system for slope conditions.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify location of underground utilities with appropriate sources. Contact J.U.L.I.E. at least 48 hours before commencing with construction. Repair damaged utilities.
- B. Verify that prepared soil base is ready to receive the work of this section. Do not begin site preparation until boulders, debris, and similar materials have been removed; depressions and ruts filled; and entire area has been shaped, trimmed and finished uniformly to lines, grades, and cross-sections shown on drawings.
- C. Confirm that no adverse drainage conditions are present.
- D. Proceed only after unsatisfactory conditions have been corrected. Commencement of work in this section will be an indication of the acceptance of sub-grade and the Contractor will be held responsible for the satisfactory execution and results of the finished work.

3.2 PREPARATION

- A. Protect existing property and improvements within this site and adjacent property.
 - 1. Protect adjacent and adjoining areas from hydroseeding and hydromulching overspray.
 - 2. Protect grade stakes set by others until directed to remove them.

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- B. Place topsoil to a depth of 6 inches beneath lawn areas. Compact each lift to the extent necessary to prevent settlement.
- C. Finish Grading:
 - 1. Provide smooth continual grades without dips and pockets where water may stand.
 - 2. Correct surface irregularities produced by preceding operations or by any other cause.
 - 3. Finish grades and earth mounds shall be approved by Landscape Architect prior to lawn construction.
- D. Tilling:
 - 1. Prepare areas to depth of approximately 3 in. by disking, harrowing or other approved means.
 - 2. Areas shown on drawings which are too small to make these operations practicable shall receive special scarification prior to final tilling.
 - 3. Continue tilling until soil condition is suitable for lawn construction.
 - 4. After completion of tilling operations, clear surface of stones, stumps, roots, brush, wire, grade stakes, construction materials, and other objects which hinder planting, installation, and maintenance operations.
- E. Keep adjacent paved areas clean.

3.3 FERTILIZING

- A. Apply fertilizer per manufacturer instructions.
- B. Apply after smooth raking of topsoil and prior to installation of seed.
- C. Apply fertilizer with mechanical spreader no more than 48 hours before hydroseeding. Spread uniformly in two passes at right angles to each other.
- D. Mix thoroughly into upper 2 inches of topsoil by disking, harrowing or other methods which produce similar results.
- E. Lightly water to aid the dissipation of fertilizer.

3.4 PREPARATION FOR EROSION CONTROL MATERIALS

- A. 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.
- B. Fill cells of erosion-control mat with planting soil and compact before planting.
- C. 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.
- D. Moisten prepared area before planting if surface is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

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3.5 HYDROSEEDING

- A. Hydroseeding: Mix specified seed, slow-release fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.
 - 1. Mix slurry with fiber-mulch manufacturer's recommended tackifier.
 - 2. Spray-apply slurry uniformly to all areas to be seeded in a one-step process. Apply slurry at a rate so that mulch component is deposited at not less than 1500-lb/acre (15.6-kg/92.9 sq. m) dry weight, and seed component is deposited at not less than the specified seed-sowing rate.
 - 3. Spray-apply slurry uniformly to all areas to be seeded in a two-step process. Apply first slurry coat at a rate so that mulch component is deposited at not less than 500-lb/acre (5.2-kg/92.9 sq. m) dry weight, and seed component is deposited at not less than the specified seed-sowing rate. Apply slurry cover coat of fiber mulch (hydromulching) at a rate of 1000 lb/acre (10.4 kg/92.9 sq. m).
- B. Protect seeded areas with slopes exceeding 1:4 with erosion-control blankets and 1:6 with erosion-control fiber mesh installed and stapled according to manufacturer's written instructions.
- C. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre (42 kg/92.9 sq. m) to form a continuous blanket 1-1/2 inches (38 mm) in loose thickness over seeded areas. Spread by hand, blower, or other suitable equipment.
 - 1. Anchor straw mulch by crimping into soil with suitable mechanical equipment.
 - 2. Bond straw mulch by spraying with asphalt emulsion at a rate of 10 to 13 gal./1000 sq. ft. (38 to 49 L/92.9 sq. m). Take precautions to prevent damage or staining of structures or other plantings adjacent to mulched areas. Immediately clean damaged or stained areas.
- D. Protect seeded areas from hot, dry weather or drying winds by applying planting soil within 24 hours after completing seeding operations. Soak areas, scatter mulch uniformly to a thickness of 3/16 inch (4.8 mm), and roll surface smooth.

3.6 TURF RENOVATION

- A. Renovate existing turf where indicated.
- B. Renovate turf damaged by Contractor's operations, such as storage of materials or equipment and movement of vehicles.
 - 1. Reestablish turf where settlement or washouts occur or where minor regrading is required.
 - 2. Install new planting soil as required.
- C. Remove lawn and vegetation from diseased or unsatisfactory turf areas; do not bury in soil.
- D. Remove topsoil containing foreign materials, such as oil drippings, fuel spills, stones, gravel, and other construction materials resulting from Contractor's operations, and replace with new planting soil.
- E. Mow, dethatch, core aerate, and rake existing turf.
- F. Remove weeds before seeding. Where weeds are extensive, apply selective herbicides as required. Do not use pre-emergence herbicides.

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- G. Remove waste and foreign materials, including weeds, soil cores, grass, vegetation, and turf, and legally dispose of them off Owner's property.
- H. Till stripped, bare, and compacted areas thoroughly to a soil depth of 6 inches (150 mm).
- I. Apply soil amendments and initial fertilizer required for establishing new turf and mix thoroughly into top 4 inches (100 mm) of existing soil. Install new planting soil to fill low spots and meet finish grades.
 - 1. Soil Amendment(s): according to requirements of Section 329113 "Soil Preparation."
 - 2. Initial Fertilizer: Slow-release fertilizer applied according to manufacturer's recommendations.
- J. Apply seed and protect with straw mulch or sod as required for new turf.
- K. Water newly planted areas and keep moist until new turf is established.

3.7 TURF MAINTENANCE

- A. General: Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. 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 turf damaged or lost in areas of subsidence.
 - 2. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.
 - 3. Apply treatments as required to keep turf 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 turf-watering equipment to convey water from sources and to keep turf uniformly moist to a depth of 4 inches (100 mm).
 - 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 turf with fine spray at a minimum rate of 2 inch (50 mm) per week during establishment unless rainfall precipitation is adequate.
- C. Mowing: The contractor shall cut grass starting when the grass becomes 3-inches high, and once a week thereafter, or as often as necessary to maintain the grass height at 3", without removing more than 1/3 of the leaf blade at any cutting.
 - 1. Included in the cutting of grass shall be the cutting and trimming required around trees, drainage structures, curbs and all areas that grass abuts, as required or directed by the engineer.
 - 2. The contractor shall maintain a height of not less than 3 inches.
 - 3. The contractor shall be responsible for at least three cuttings prior to final inspection.
- D. Turf Postfertilization: Apply slow-release fertilizer after initial mowing and when grass is dry.

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1. Use fertilizer that provides actual nitrogen of at least 1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m) to turf area.

3.8 SATISFACTORY TURF

- A. Turf installations shall meet the following criteria as determined by Landscape Architect:
 1. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. (0.92 sq. m) and bare spots not exceeding 5 by 5 inches (125 by 125 mm).
- B. Use specified materials to reestablish turf that does not comply with requirements, and continue maintenance until turf is satisfactory.

3.9 CLEANUP AND PROTECTION

- A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.
- B. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.
- C. 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. "NEWLY SEEDED" or other appropriate approved warning placards shall be posted until all work under the contract is completed and accepted.
- D. Remove nondegradable erosion-control measures after grass establishment period.

3.10 MAINTENANCE

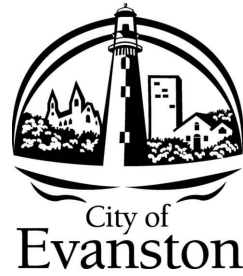
- A. Water will be supplied by the Contractor. If water is not available on site, the contractor shall supply water from his own source at no extra expense to the Owner. The contractor shall furnish the hose and proper equipment for watering purposes.
- B. Mow grass at regular intervals to maintain at a maximum height of 2-1/2 inches. Do not cut more than 1/3 of grass blade at any one mowing.
- C. Neatly trim edges and hand clip where necessary.
- D. Immediately remove clippings after mowing and trimming.
- E. Water to prevent grass and soil from drying out.
- F. Fertilize after completion of second mowing with 15 lbs of active ingredients per 1,000 sq ft. Use mechanical spreader to spread uniformly in two passes at right angles to each other.
- G. Immediately replace lawn to areas that show deterioration or bare spots.
- H. Protect seeded areas with warning signs during maintenance period.
- I. Repair damage created by operations prior to Preliminary Acceptance.

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J. Final Acceptance will be granted upon conformance with following:

1. Turf shall be reasonably free from weeds, diseases, or other visible imperfections.
2. Turf shall display uniform color, quality, and coverage.
3. Performed three mowings.
4. Performed fertilizing operation after mowing.

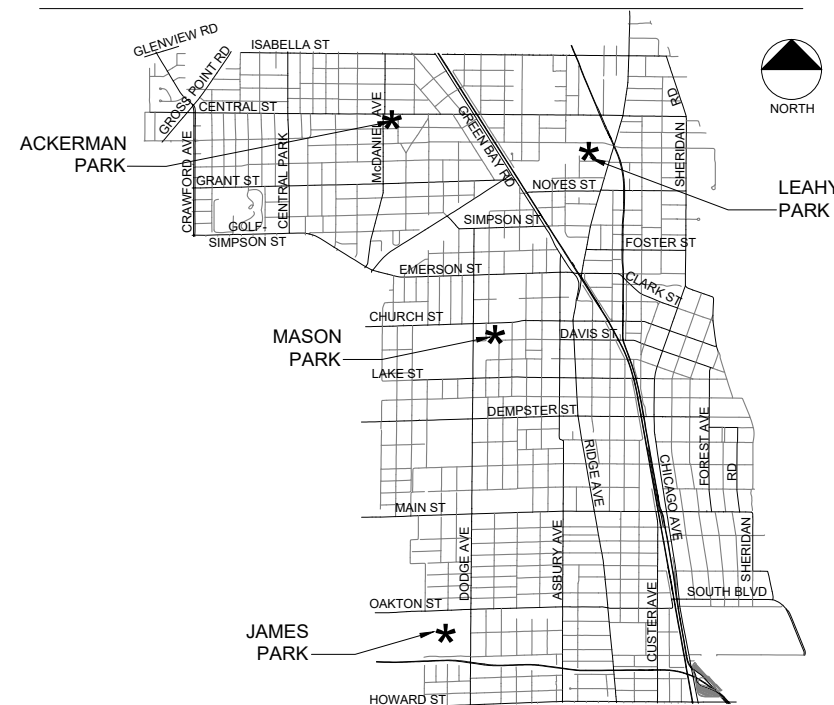
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2025 COURT IMPROVEMENTS: JAMES, LEAHY, ACKERMAN, AND MASON PARKS

(BID #25-24)

LOCATION MAP



ABBREVIATIONS

ALUM	ALUMINUM	LOL	LAYOUT LINE
BC	BOTTOM OF CURB	MANUF	MANUFACTURER
BEG	BEGIN	MIN	MINIMUM
BIT	BITUMINOUS	NO.	NUMBER
BOT	BOTTOM	NOM	NOMINAL
BW	BOTTOM OF WALL	NTS	NOT TO SCALE
CC	CENTER OF CURVE	OC	ON CENTER
C/L	CENTER LINE	OD	OUTSIDE DIAMETER
CLR	CLEAR	OPNG	OPENING
CONC	CONCRETE	PERF	PERFORATED
CONT	CONTINUOUS	PC	POINT OF CURVATURE
CP	CENTER POINT	PCC	POINT OF COMPOUND CURVATURE
DIA	DIAMETER	PGL	PROPOSED GRADE LINE
EA	EACH	PRC	POINT OF REVERSE CURVATURE
EF	EACH FACE	PT	POINT OF TANGENCY
ELEV	ELEVATION	PVMT	PAVEMENT
EQUIP	EQUIPMENT	R	RADIUS
EW	EACH WAY	REINF	REINFORCEMENT
EXIST	EXISTING	REQD	REQUIRED
FG	FINISH GRADE	RET	RETAINING
GA	GAUGE	SIM	SIMILAR
GALV	GALVANIZED	SQ	SQUARE
HT	HEIGHT	TC	TOP OF CURB
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION	TW	TOP OF WALL
INV	INVERT	TYP	TYPICAL
		VAR	VARIES

OWNER

CITY OF EVANSTON
PUBLIC WORKS AGENCY
CONTACT: KENON BOEHM
909 DAVIS STREET
EVANSTON, ILLINOIS 60201
224-296-4453 (PHONE)
kboehm@cityofevanston.org

NOTE

**THE EXACT LOCATION OF ALL UTILITIES
SHALL BE VERIFIED BY THE CONTRACTOR
PRIOR TO CONSTRUCTION ACTIVITIES
FOR UTILITY LOCATION CALL J.U.L.I.E.
1-800-892-0123, CITY OF EVANSTON UTILITIES
DIVISION 847-866-2945, AND CITY OF
EVANSTON FACILITIES MANAGEMENT
DIVISION 847-448-8181.**

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G-02	LEAHY PARK LOCATION PLAN AND NOTES
G-03	ACKERMAN PARK LOCATION PLAN AND NOTES
G-04	MASON PARK LOCATION PLAN AND NOTES
R-01	JAMES PARK DEMOLITION PLAN
R-02	LEAHY PARK DEMOLITION PLAN
R-03	ACKERMAN PARK DEMOLITION PLAN
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C-01	JAMES PARK PROPOSED SITE PLAN
C-02	LEAHY PARK PROPOSED SITE PLAN
C-03	ACKERMAN PARK PROPOSED SITE PLAN
C-04	MASON PARK PROPOSED SITE PLAN
D-01	DETAILS
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S002	GENERAL NOTES
S003	GENERAL NOTES
S004	GENERAL NOTES
S011	SPECIAL INSPECTIONS
S111	FOUNDATION
S112	SECTION & DETAILS

GENERAL NOTES

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- 4. DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED, AT THEIR SOLE EXPENSE, TO HAVE AVAILABLE A WATER TRUCK OR SIMILAR EQUIPMENT TO CONTROL DUST. IF NECESSARY, THE CONTRACTOR SHALL BE REQUIRED TO CONTROL DUST DURING NON-WORKING HOURS.
- 5. ALL EXCESS MATERIALS (CONCRETE, PIPING, EXCAVATED SOILS, SURPLUS MATERIALS, ETC.) SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITES AND OBTAIN PERMISSION AND ALL NECESSARY PERMITS.
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- 9. FOR NWC COORDINATION CONTACT:

DAVID NEYBERT
847-635-0777
dneybert@northwestwater.org

EROSION CONTROL NOTES

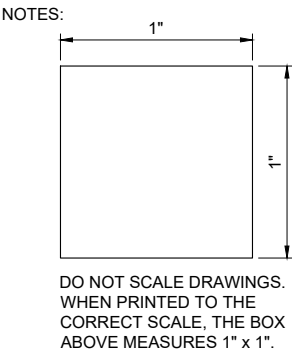
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- 13. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.
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Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

**2025 COURT IMPROVEMENTS:
JAMES, LEAHY,
ACKERMAN, &
MASON PARKS**



DRAWING SCALE: 1"= 200'-0"

REVISIONS:

1	2025/04/02 - ISSUE FOR BID

SHEET TITLE

**JAMES PARK
LOCATION PLAN
AND NOTES**

SHEET NO.

G-01

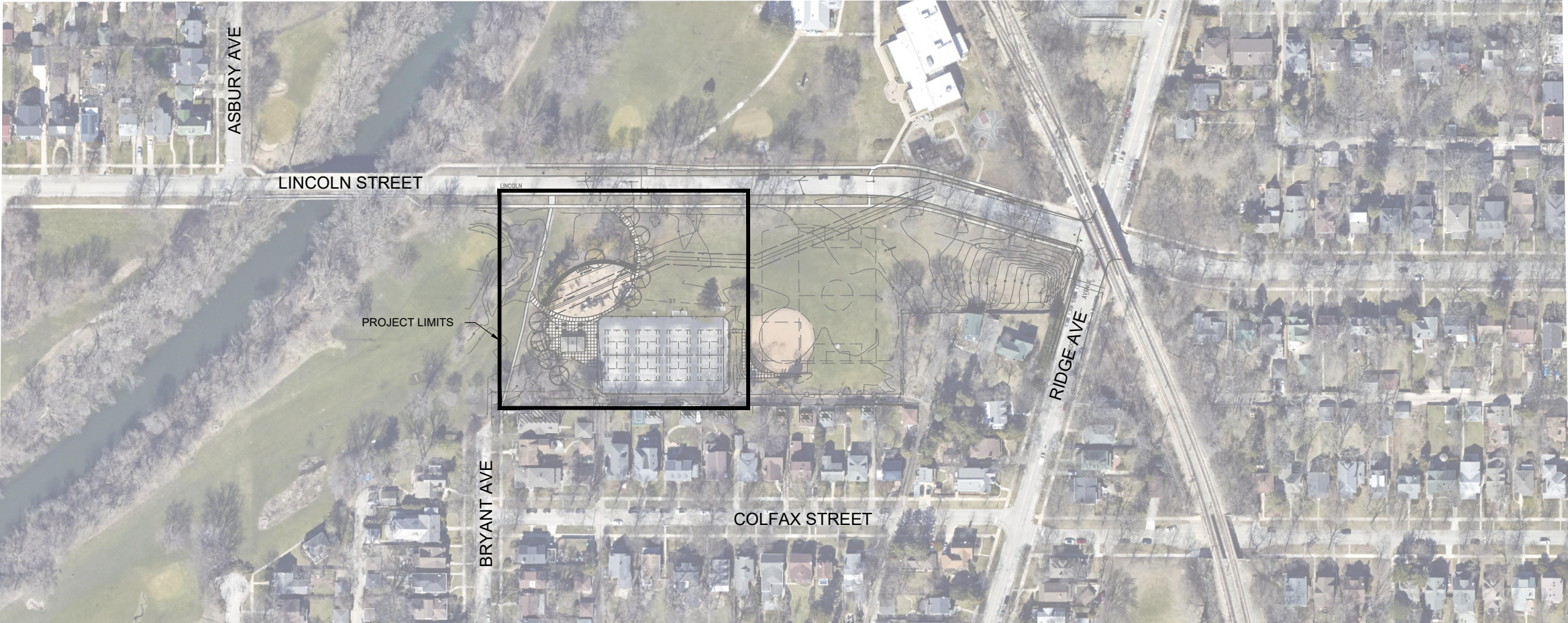
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PROJECT NAME:

**2025 COURT IMPROVEMENTS:
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REVISIONS:

1	2025/04/02 - ISSUE FOR BID

SHEET TITLE

**LEAHY PARK
LOCATION PLAN
AND NOTES**

SHEET NO.

G-02

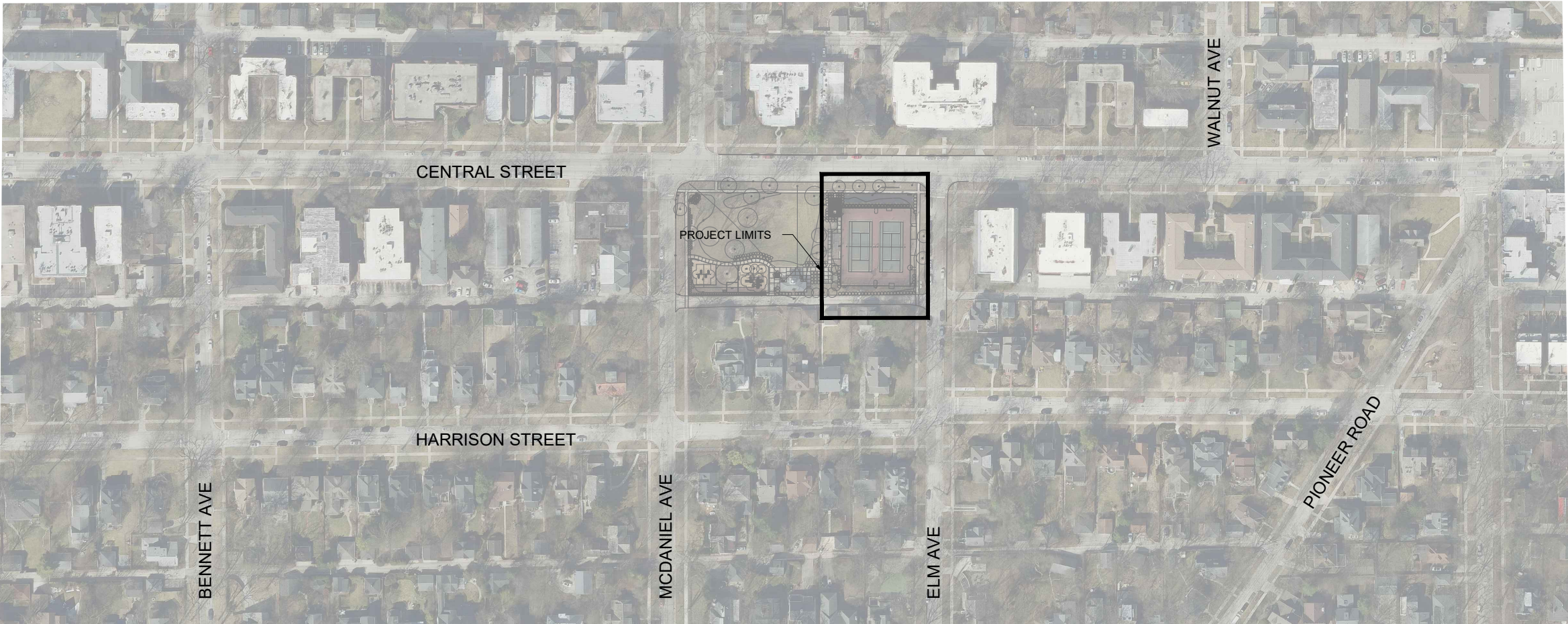
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ADD ALTERNATE 1 & 2



City of

Evanston™

Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

2025 COURT
IMPROVEMENTS:
JAMES, LEAHY,
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REVISIONS:	
1	2025/04/02 - ISSUE FOR BID

SHEET TITLE

ACKERMAN PARK
LOCATION PLAN
AND NOTES

SHEET NO.

G-03

GENERAL NOTES

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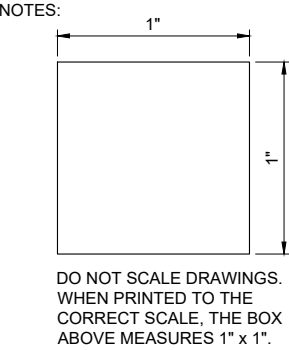
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- 7. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES SHALL BE REQUIRED.
- 8. ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH AND VEHICLE WASH DOWN FACILITIES SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PROVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED OR OTHERWISE DIRECTED BY THE CITY.
- 9. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNTS OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.
- 10. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- 11. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE FILTER DEVICE.
- 12. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE AND UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
- 13. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.
- 14. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES PERIODICALLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/8 INCH PRECIPITATION. DAMAGED OR INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS. EROSION CONTROL SYSTEMS REPLACED DUE TO SEDIMENT LOADING WILL BE INCLUDED IN THE BASE BID PRICE.
- 15. THE COST OF REMOVING SEDIMENT OR REPAIRING EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE BASE BID PRICE.



PROJECT NAME:

**2025 COURT
IMPROVEMENTS:
JAMES, LEAHY,
ACKERMAN, &
MASON PARKS**



DRAWING SCALE: 1"= 200'-0"

REVISIONS:	
1	2025/04/02 - ISSUE FOR BID

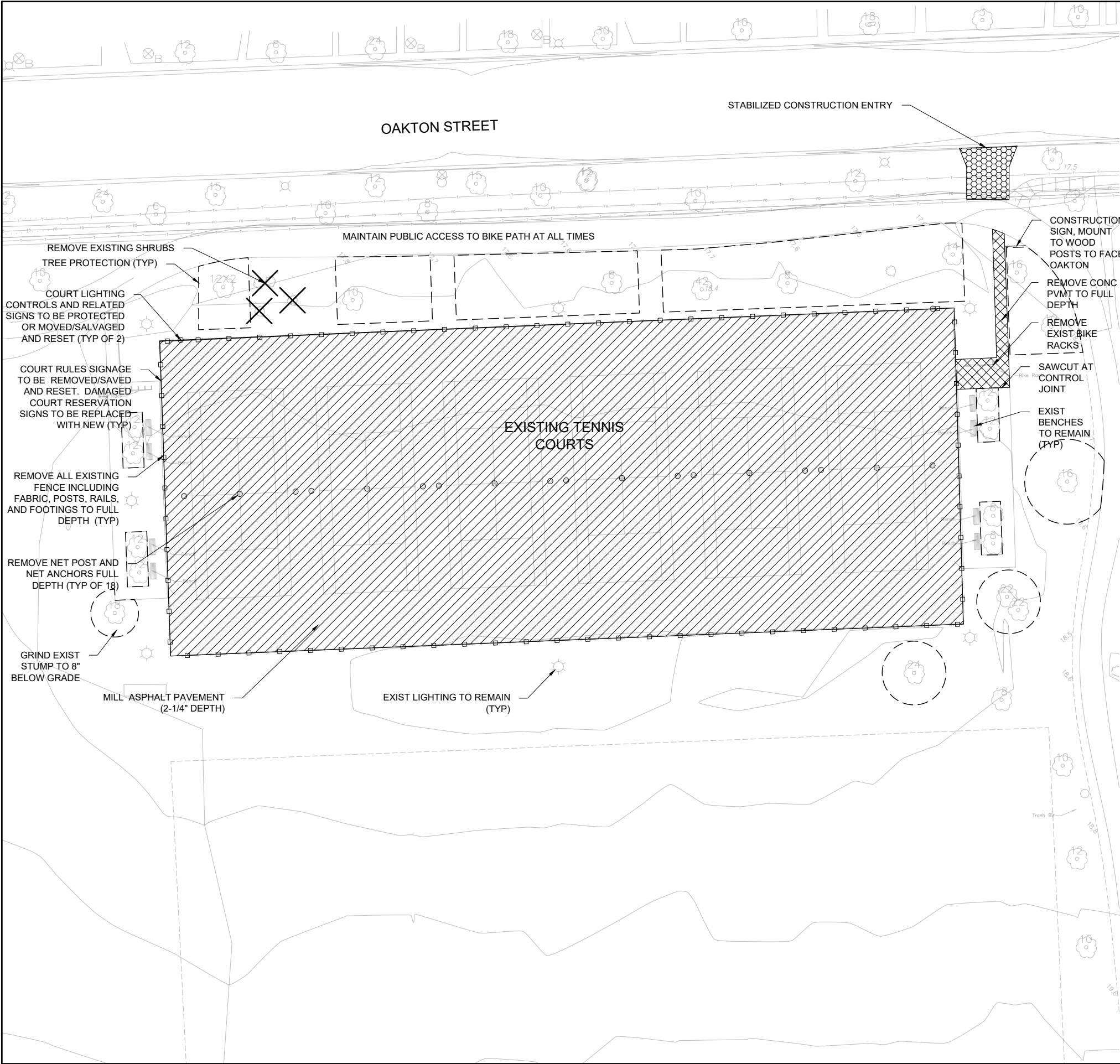
SHEET TITLE

**MASON PARK
LOCATION PLAN
AND NOTES**

SHEET NO.

G-04

ADD ALTERNATE 3



DEMOLITION NOTES

- BEFORE ANY EXCAVATION, CALL J.U.L.I.E. AT 1-800-892-0123 AND THE CITY OF EVANSTON'S FACILITIES MANAGEMENT DIVISION AT 847-448-2974 TO LOCATE EXISTING UTILITIES ON SITE. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATIONS OF ALL BURIED UTILITIES IN THE AREAS OF WORK BEFORE STARTING OPERATIONS. THE CONTRACTOR SHALL BE LIABLE FOR COST OF REPAIRING OR REPLACING ANY BURIED CONDUITS, CABLES OR PIPING DAMAGED DURING THE INSTALLATION OF THIS WORK.
- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER SITE FEATURES TO REMAIN FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUTS AND OTHER HAZARDS CREATED BY SITE IMPROVEMENT OPERATIONS.
- CONTRACTOR SHALL CAREFULLY MAINTAIN PRESENT GRADE AT BASE OF ALL EXISTING TREES TO REMAIN AND PREVENT ANY DISTURBANCE OF EXISTING TREES. CONTRACTOR TO PROTECT EXISTING TREES TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, BRUISING OF BARK AND SMOTHERING TREES BY STOCKPILING EXCAVATION AND CONSTRUCTION MATERIALS WITHIN THE DRIP LINE.
- CONTRACTOR SHALL RESTORE ALL AREAS OF REMOVALS AND DISTURBED AREAS WITH TOPSOIL AND SEED.
- CONTRACTOR AT ALL TIMES SHALL KEEP THE SITE CLEAR OF RUBBISH AND DEBRIS. ALL PAVEMENT AND DEBRIS REMOVED FROM THE SITE SHALL BE DISPOSED OF LEGALLY.
- CONTRACTOR SHALL REMOVE EVERYTHING NECESSARY TO COMPLETE CONSTRUCTION INCLUDING ALL NECESSARY CLEARING AND GRUBBING. LABELS ARE FOR CONVENIENCE ONLY. THE CONTRACTOR SHALL VERIFY REMOVALS PRIOR TO SUBMITTING A BID FOR WORK ON THIS PROJECT.
- SAWCUT ALL PAVEMENTS AND/OR CURB AND GUTTERS AT EDGES OF AREAS SCHEDULED FOR REMOVAL. COST FOR SAWCUTTING SHALL BE INCIDENTAL TO THE CONTRACT.
- CONTRACTOR SHALL RESTORE ANY PAVEMENTS DAMAGED DURING THE WORK TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST.
- ALL SOILS AT JAMES PARK SHALL BE TREATED AS SPECIAL NON-HAZARDOUS. THE CONTRACTOR WILL REMOVE AND DISPOSE OF THIS MATERIAL AS SPECIFIED IN SECTION 02 06 40.

LEGEND

- MILL AREA
- REMOVAL AREA
- REMOVAL ITEM
- TREE PROTECTION FENCE
- STABILIZED CONSTRUCTION ENTRY



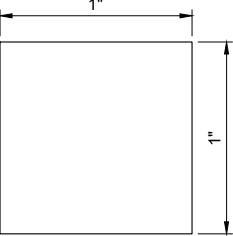


City of
Evanston
Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

**2025 COURT IMPROVEMENTS:
JAMES, LEAHY,
ACKERMAN, &
MASON PARKS**

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: 1"= 40'-0"

REVISIONS:

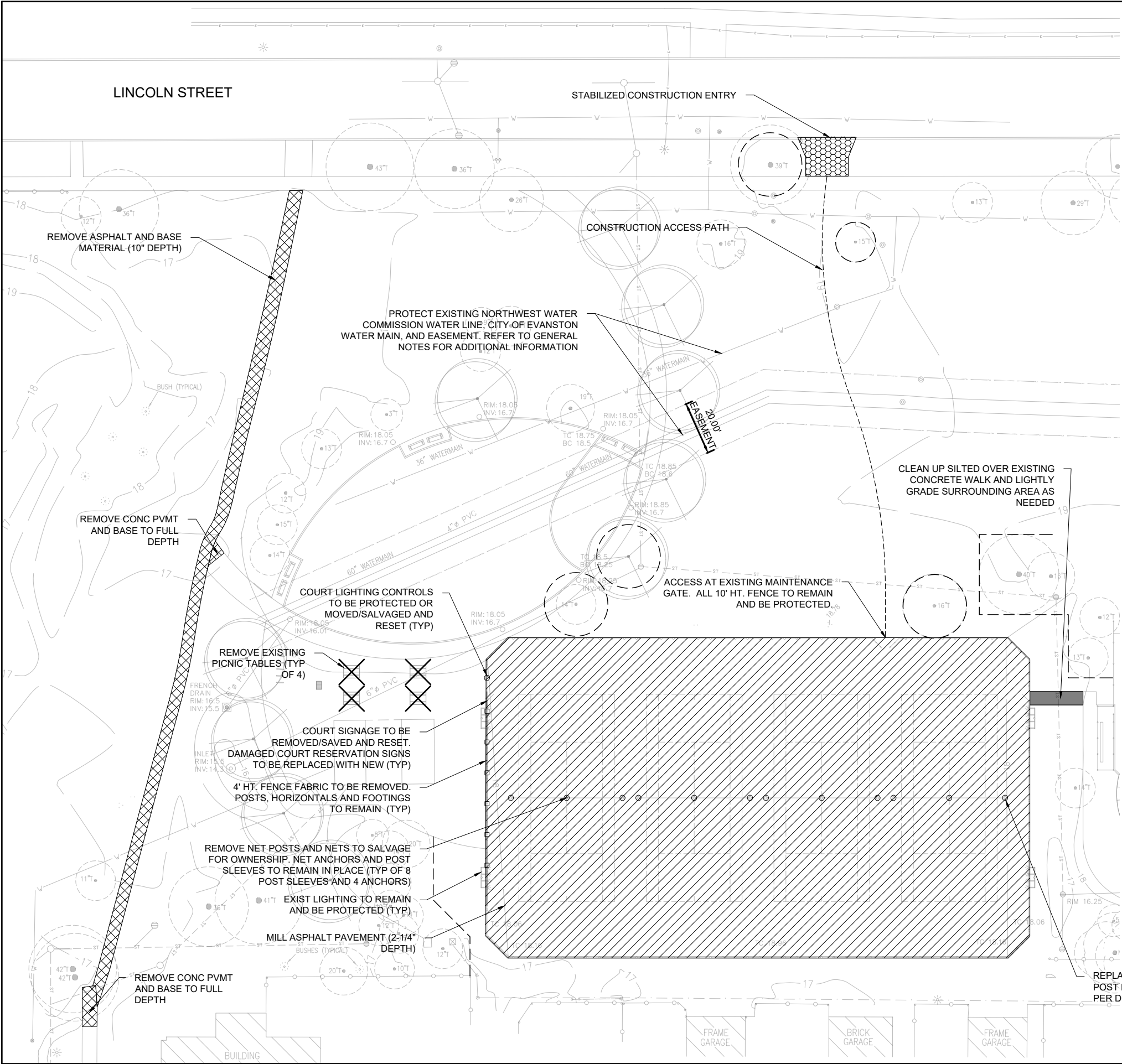
1	2025/04/02 - ISSUE FOR BID

SHEET TITLE

**JAMES PARK
DEMOLITION
PLAN**

SHEET NO.

R-01



DEMOLITION NOTES

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- CONTRACTOR SHALL RESTORE ANY PAVEMENTS DAMAGED DURING THE WORK TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST.

LEGEND

- MILL AREA
- REMOVAL AREA
- REMOVAL ITEM
- TREE PROTECTION FENCE
- STABILIZED CONSTRUCTION ENTRY



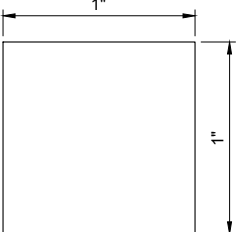


City of
Evanston
Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

**2025 COURT
IMPROVEMENTS:
JAMES, LEAHY,
ACKERMAN, &
MASON PARKS**

NOTES:



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REVISIONS:

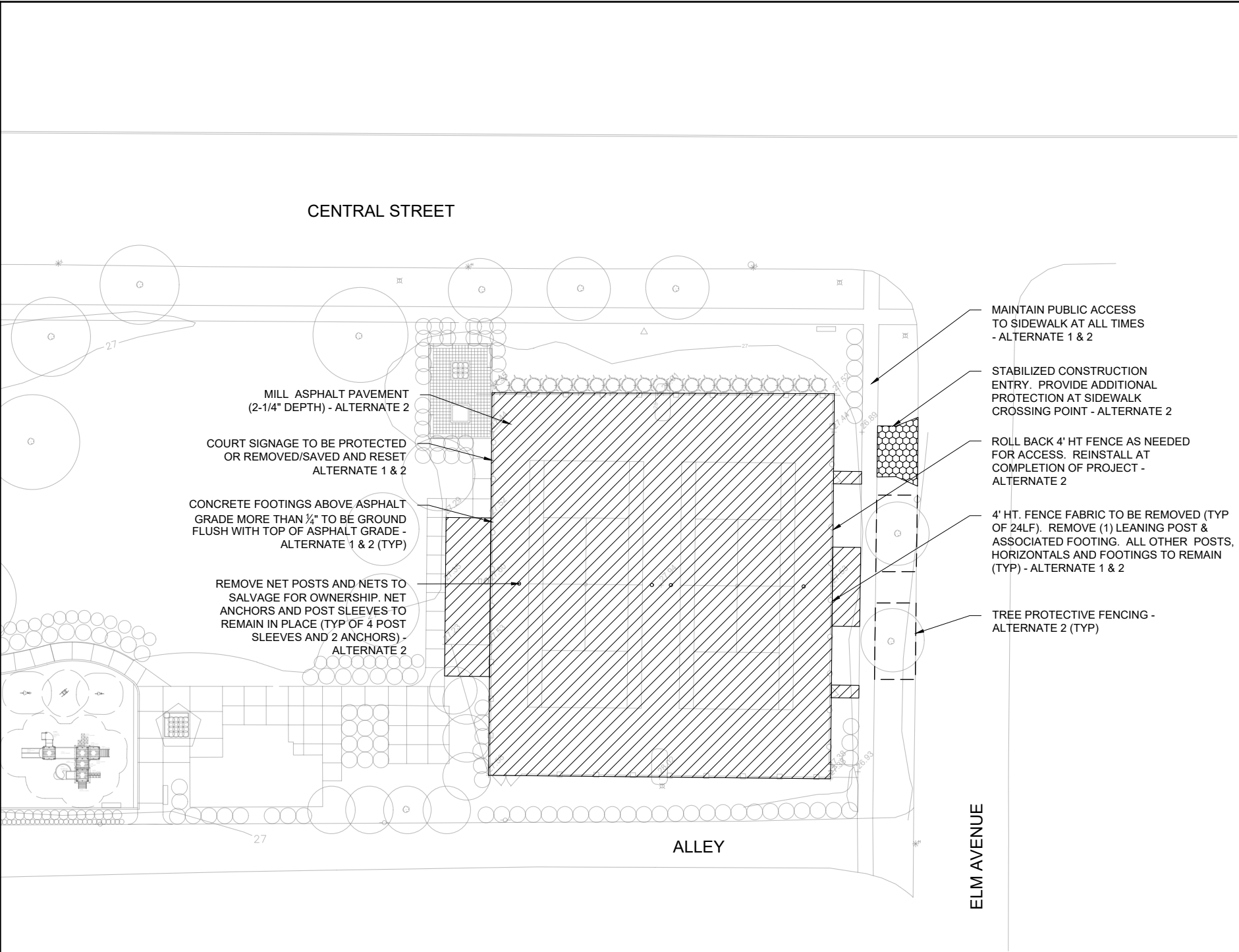
1	2025/04/02 - ISSUE FOR BID

SHEET TITLE

**LEAHY PARK
DEMOLITION
PLAN**

SHEET NO.

R-02



DEMOLITION NOTES

1. BEFORE ANY EXCAVATION, CALL J.U.L.I.E. AT 1-800-892-0123 AND THE CITY OF EVANSTON'S FACILITIES MANAGEMENT DIVISION AT 814-448-2974 TO LOCATE EXISTING UTILITIES ON SITE. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATIONS OF ALL BURIED UTILITIES IN THE AREAS OF WORK BEFORE STARTING OPERATIONS. THE CONTRACTOR SHALL BE LIABLE FOR COST OF REPAIRING OR REPLACING ANY BURIED CONDUITS, CABLES OR PIPING DAMAGED DURING THE INSTALLATION OF THIS WORK.
2. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER SITE FEATURES TO REMAIN FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUTS AND OTHER HAZARDS CREATED BY SITE IMPROVEMENT OPERATIONS.
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4. CONTRACTOR SHALL RESTORE ALL AREAS OF REMOVALS AND DISTURBED AREAS WITH TOPSOIL AND SEED.
5. CONTRACTOR AT ALL TIMES SHALL KEEP THE SITE CLEAR OF RUBBISH AND DEBRIS. ALL PAVEMENT AND DEBRIS REMOVED FROM THE SITE SHALL BE DISPOSED OF LEGALLY.
6. CONTRACTOR SHALL REMOVE EVERYTHING NECESSARY TO COMPLETE CONSTRUCTION INCLUDING ALL NECESSARY CLEARING AND GRUBBING. LABELS ARE FOR CONVENIENCE ONLY. THE CONTRACTOR SHALL VERIFY REMOVALS PRIOR TO SUBMITTING A BID FOR WORK ON THIS PROJECT.
7. SAWCUT ALL PAVEMENTS AND/OR CURB AND GUTTERS AT EDGES OF AREAS SCHEDULED FOR REMOVAL. COST FOR SAWCUTTING SHALL BE INCIDENTAL TO THE CONTRACT.
8. CONTRACTOR SHALL RESTORE ANY PAVEMENTS DAMAGED DURING THE WORK TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST.
9. ALTERNATES:

9.1. ALTERNATE 1 TO INCLUDE NEW COLOR PLAY SURFACE, CONCRETE GRINDING, AND FENCING REPAIRS AND/OR MODIFICATIONS.

9.2. ALTERNATE 2 TO INCLUDE ALTERNATE 1 ITEMS AS WELL AS CONSTRUCTION ACCESS, TREE PROTECTION, AND MILLING AND RESURFACING OF ASPHALT.

LEGEND

- MILL AREA
- REMOVAL ITEM
- TREE PROTECTION FENCE
- STABILIZED CONSTRUCTION ENTRY



ADD ALTERNATE 1 & 2



City of
Evanston™

Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

2025 COURT IMPROVEMENTS:
JAMES, LEAHY,
ACKERMAN, &
MASON PARKS

NOTES:

1"

1"

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REVISIONS:

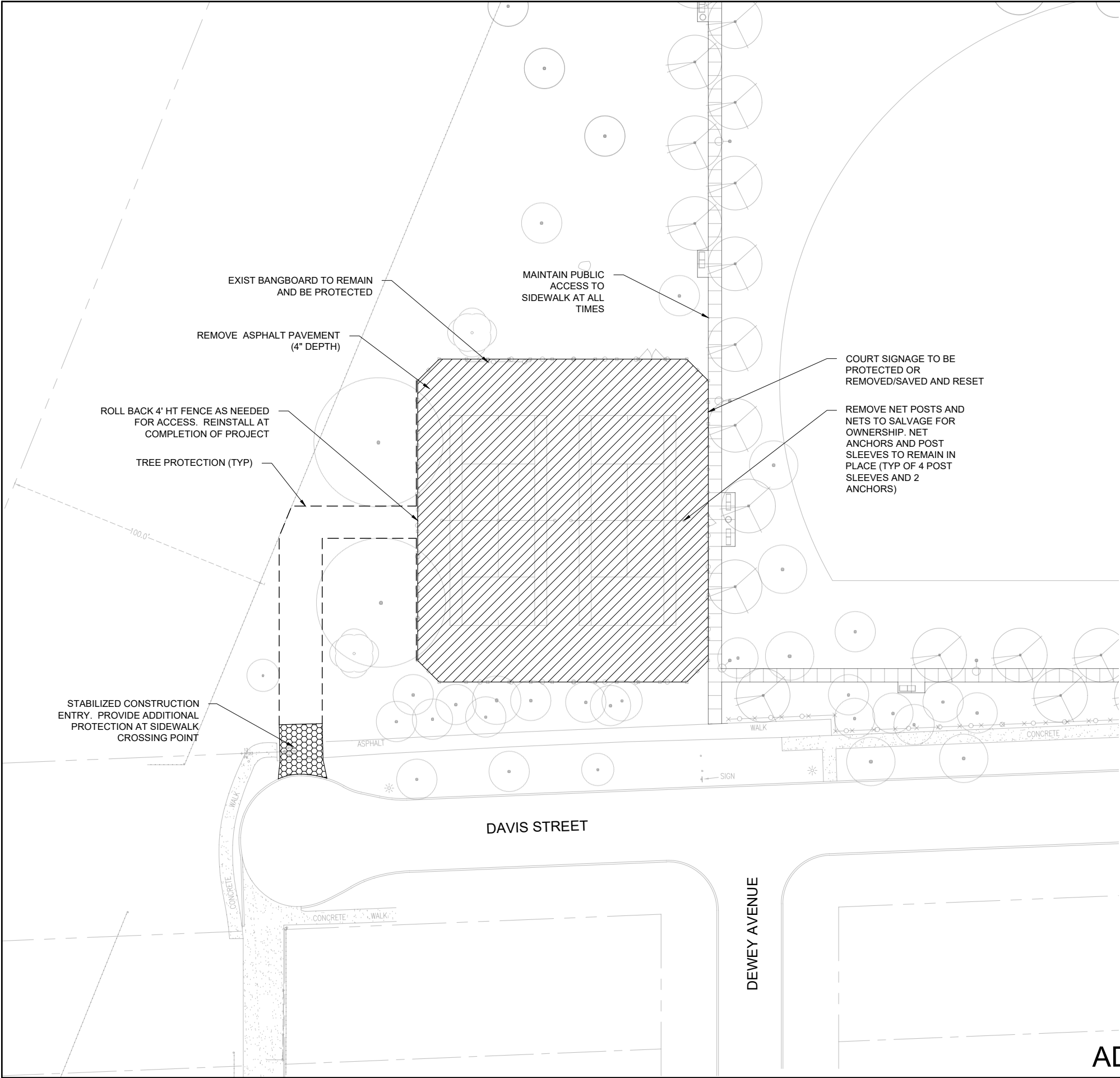
1	2025/04/02 - ISSUE FOR BID

SHEET TITLE

ACKERMAN PARK
DEMOLITION
PLAN

SHEET NO.

R-03



DEMOLITION NOTES

- 1. BEFORE ANY EXCAVATION, CALL J.U.L.I.E. AT 1-800-892-0123 AND THE CITY OF EVANSTON'S FACILITIES MANAGEMENT DIVISION AT 814-448-2974 TO LOCATE EXISTING UTILITIES ON SITE. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATIONS OF ALL BURIED UTILITIES IN THE AREAS OF WORK BEFORE STARTING OPERATIONS. THE CONTRACTOR SHALL BE LIABLE FOR COST OF REPAIRING OR REPLACING ANY BURIED CONDUITS, CABLES OR PIPING DAMAGED DURING THE INSTALLATION OF THIS WORK.
- 2. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER SITE FEATURES TO REMAIN FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUTS AND OTHER HAZARDS CREATED BY SITE IMPROVEMENT OPERATIONS.
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- 7. SAWCUT ALL PAVEMENTS AND/OR CURB AND GUTTERS AT EDGES OF AREAS SCHEDULED FOR REMOVAL. COST FOR SAWCUTTING SHALL BE INCIDENTAL TO THE CONTRACT.
- 8. CONTRACTOR SHALL RESTORE ANY PAVEMENTS DAMAGED DURING THE WORK TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST.

LEGEND

- [Hatched Box] REMOVAL AREA
- [Dashed Circle] TREE PROTECTION FENCE
- [Stippled Box] STABILIZED CONSTRUCTION ENTRY





City of

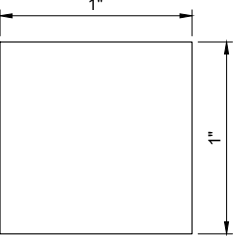
Evanston™

Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

2025 COURT IMPROVEMENTS:
JAMES, LEAHY,
ACKERMAN, &
MASON PARKS

NOTES:



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DRAWING SCALE: 1"= 40'-0"

REVISIONS:

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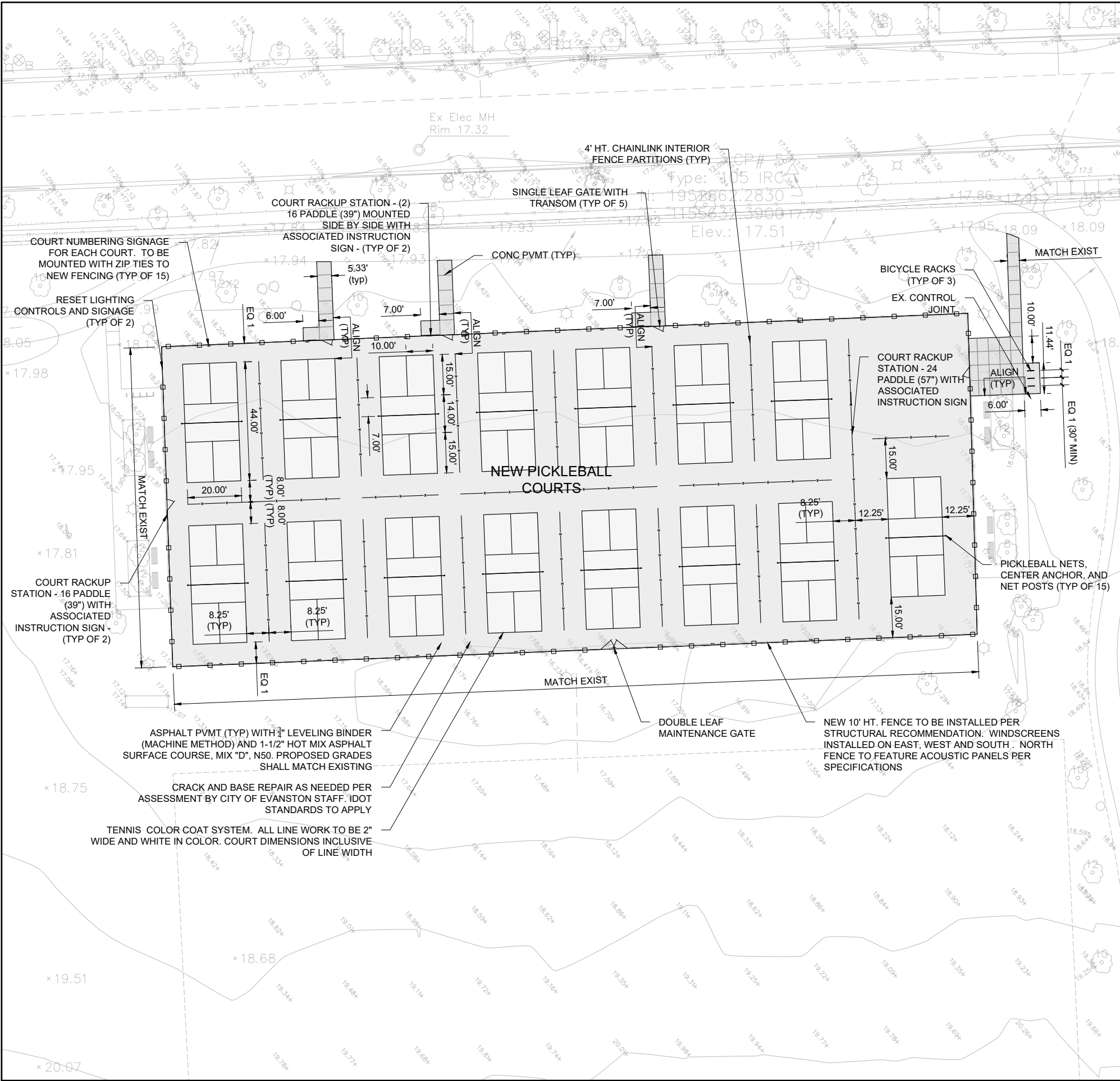
SHEET TITLE

MASON PARK
DEMOLITION
PLAN

SHEET NO.

R-04

ADD ALTERNATE 3



LAYOUT NOTES

1. ALL WORK AND OPERATIONS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
2. FIELD STAKING AND LAYOUT SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR. LAYOUT ALL CONSTRUCTION LINES AND VERIFY WITH THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION WORK.
3. IN THE EVENT THAT DISCREPANCIES ARISE BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY FOR RESOLUTION.
4. UNLESS NOTED OTHERWISE, DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT, FACE OF WALL OR FACE OF CURB.
5. RADII OF EXISTING CURBS ARE ESTIMATED FROM SURVEY OR BASE DATA. MAKE ALL MODIFICATIONS NECESSARY TO ASSURE NEW CURBS MEET FLUSH, EVEN, AND ON TANGENT TO EXISTING CURBS.
6. WALKWAYS AND HARDSCAPE ELEMENTS INDICATED AS CURVILINEAR SHALL HAVE SMOOTH, CONTINUOUS CURVES AND ABUT AT 90 DEGREE ANGLES UNLESS OTHERWISE INDICATED.
7. CONCRETE SCORING SHALL BE PARALLEL, PERPENDICULAR, OR TANGENT TO ADJACENT IMPROVEMENTS UNLESS OTHERWISE NOTED.
8. PROVIDE EXPANSION ISOLATION JOINTS WHERE CONCRETE PAVING OR PAVING BASE MEETS A FIXED STRUCTURE (EXISTING OR PROPOSED).
9. PROVIDE FLUSH CONDITIONS AT JUNCTURE OF ALL WALKWAYS.
10. THESE CONSTRUCTION DRAWINGS HAVE BEEN CREATED WITH AUTOCAD SOFTWARE USING SITE BENCHMARKS AND A SITE COORDINATE SYSTEM BASED ON THE PROVIDED SURVEY FILE. AN ELECTRONIC COPY OF THE DRAWING FILES, SUITABLE FOR DOWNLOADING INTO SURVEY SOFTWARE WILL BE PROVIDED FOR CONSTRUCTION LAYOUT.
11. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES ON WHICH THE WORK IS BEING DONE CLEAR OF RUBBISH AND DEBRIS.
12. DO NOT INTERFERE WITH USE OF ADJACENT BUILDINGS, PARKING LOTS, STREETS OR ALLEYS.
13. SEED AND HYDROMULCH ALL LAWN AREAS DISTURBED BY CONSTRUCTION.
14. ALL SOILS AT JAMES PARK SHALL BE TREATED AS SPECIAL NON-HAZARDOUS. THE CONTRACTOR WILL REMOVE AND DISPOSE OF THIS MATERIAL AS SPECIFIED IN SECTION 02 06 40.



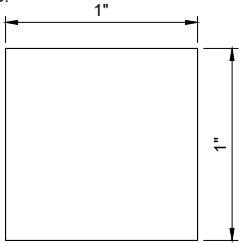
City of
Evanston

Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

2025 COURT
IMPROVEMENTS:
JAMES, LEAHY,
ACKERMAN, &
MASON PARKS

NOTES:



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REVISIONS:

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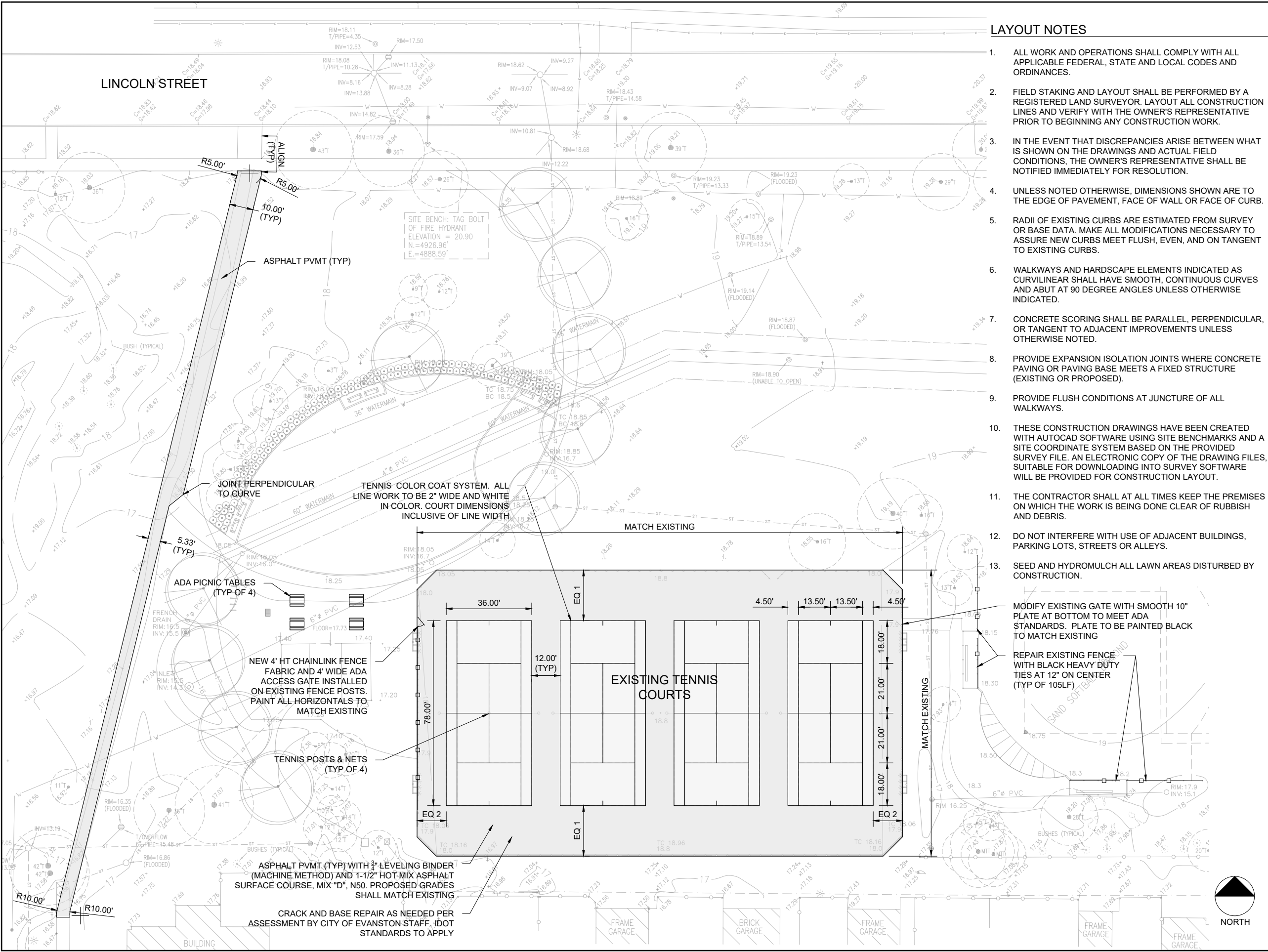
SHEET TITLE

JAMES PARK
PROPOSED
SITE PLAN

SHEET NO.

C-01





LAYOUT NOTES

1. ALL WORK AND OPERATIONS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
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3. IN THE EVENT THAT DISCREPANCIES ARISE BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY FOR RESOLUTION.
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5. RADII OF EXISTING CURBS ARE ESTIMATED FROM SURVEY OR BASE DATA. MAKE ALL MODIFICATIONS NECESSARY TO ASSURE NEW CURBS MEET FLUSH, EVEN, AND ON TANGENT TO EXISTING CURBS.
6. WALKWAYS AND HARDSCAPE ELEMENTS INDICATED AS CURVILINEAR SHALL HAVE SMOOTH, CONTINUOUS CURVES AND ABUT AT 90 DEGREE ANGLES UNLESS OTHERWISE INDICATED.
7. CONCRETE SCORING SHALL BE PARALLEL, PERPENDICULAR, OR TANGENT TO ADJACENT IMPROVEMENTS UNLESS OTHERWISE NOTED.
8. PROVIDE EXPANSION ISOLATION JOINTS WHERE CONCRETE PAVING OR PAVING BASE MEETS A FIXED STRUCTURE (EXISTING OR PROPOSED).
9. PROVIDE FLUSH CONDITIONS AT JUNCTURE OF ALL WALKWAYS.
10. THESE CONSTRUCTION DRAWINGS HAVE BEEN CREATED WITH AUTOCAD SOFTWARE USING SITE BENCHMARKS AND A SITE COORDINATE SYSTEM BASED ON THE PROVIDED SURVEY FILE. AN ELECTRONIC COPY OF THE DRAWING FILES, SUITABLE FOR DOWNLOADING INTO SURVEY SOFTWARE WILL BE PROVIDED FOR CONSTRUCTION LAYOUT.
11. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES ON WHICH THE WORK IS BEING DONE CLEAR OF RUBBISH AND DEBRIS.
12. DO NOT INTERFERE WITH USE OF ADJACENT BUILDINGS, PARKING LOTS, STREETS OR ALLEYS.
13. SEED AND HYDROMULCH ALL LAWN AREAS DISTURBED BY CONSTRUCTION.

MODIFY EXISTING GATE WITH SMOOTH 10" PLATE AT BOTTOM TO MEET ADA STANDARDS. PLATE TO BE PAINTED BLACK TO MATCH EXISTING

REPAIR EXISTING FENCE WITH BLACK HEAVY DUTY TIES AT 12" ON CENTER (TYP OF 105LF)



Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:
**2025 COURT IMPROVEMENTS:
JAMES, LEAHY,
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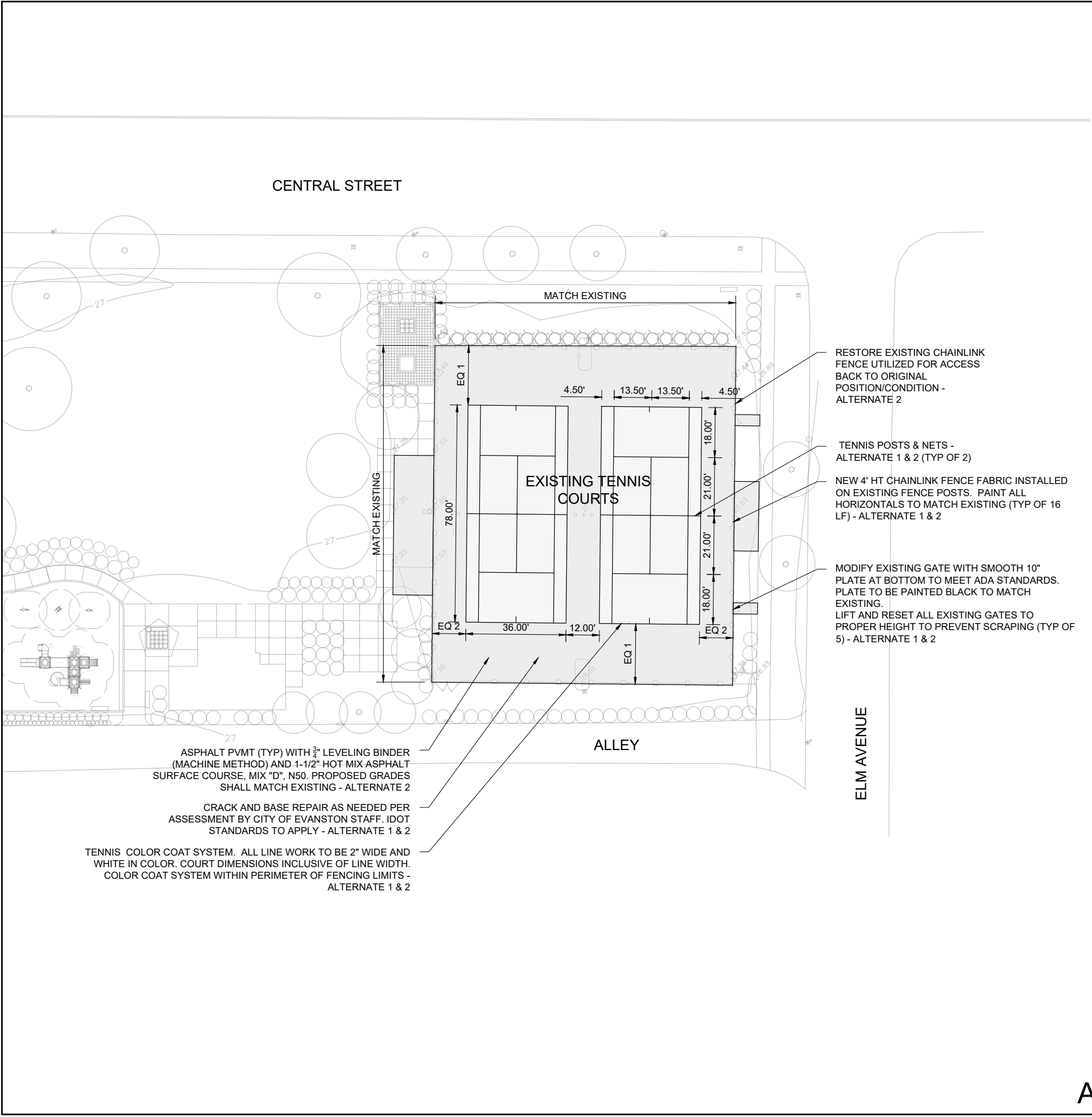
1	2025/04/02 - ISSUE FOR BID

SHEET TITLE

**LEAHY PARK
PROPOSED
SITE PLAN**

SHEET NO.

C-02



LAYOUT NOTES

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- SEED AND HYDROMULCH ALL LAWN AREAS DISTURBED BY CONSTRUCTION.
- ALTERNATES:
 - ALTERNATE 1 TO INCLUDE NEW COLOR PLAY SURFACE, CONCRETE GRINDING, AND FENCING REPAIRS AND/OR MODIFICATIONS.
 - ALTERNATE 2 TO INCLUDE ALTERNATE 1 ITEMS AS WELL AS CONSTRUCTION ACCESS, TREE PROTECTION, AND MILLING AND RESURFACING OF ASPHALT.

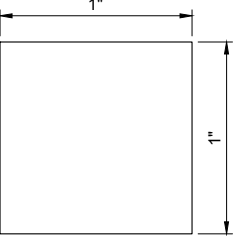


City of
Evanston[™]

Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

**2025 COURT IMPROVEMENTS:
JAMES, LEAHY,
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MASON PARKS**

NOTES:

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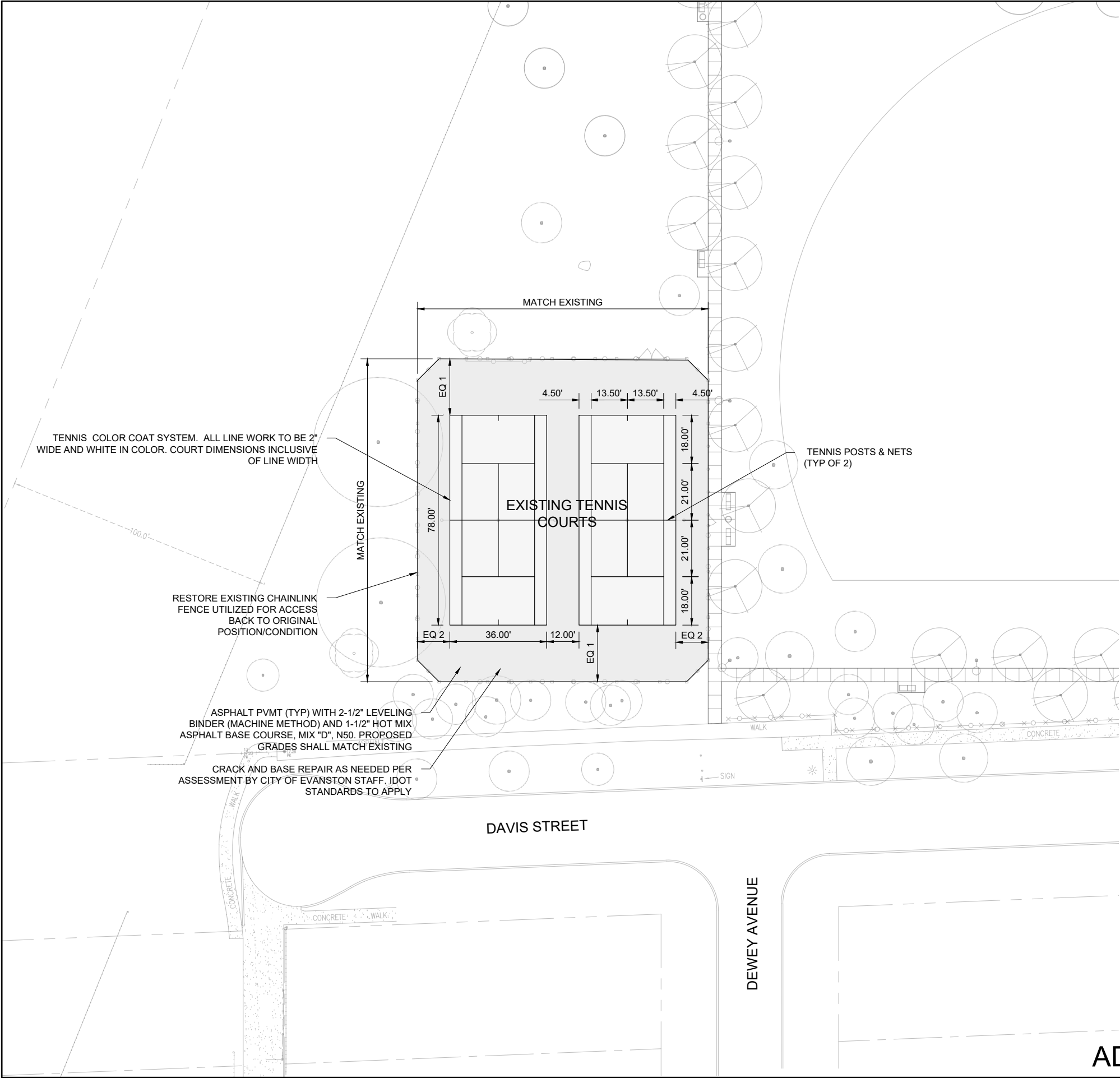
**ACKERMAN PARK
PROPOSED
SITE PLAN**

SHEET NO.

C-03

ADD ALTERNATE 1 & 2





LAYOUT NOTES

1. ALL WORK AND OPERATIONS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
2. FIELD STAKING AND LAYOUT SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR. LAYOUT ALL CONSTRUCTION LINES AND VERIFY WITH THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION WORK.
3. IN THE EVENT THAT DISCREPANCIES ARISE BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY FOR RESOLUTION.
4. UNLESS NOTED OTHERWISE, DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT, FACE OF WALL OR FACE OF CURB.
5. RADII OF EXISTING CURBS ARE ESTIMATED FROM SURVEY OR BASE DATA. MAKE ALL MODIFICATIONS NECESSARY TO ASSURE NEW CURBS MEET FLUSH, EVEN, AND ON TANGENT TO EXISTING CURBS.
6. WALKWAYS AND HARDSCAPE ELEMENTS INDICATED AS CURVILINEAR SHALL HAVE SMOOTH, CONTINUOUS CURVES AND ABUT AT 90 DEGREE ANGLES UNLESS OTHERWISE INDICATED.
7. CONCRETE SCORING SHALL BE PARALLEL, PERPENDICULAR, OR TANGENT TO ADJACENT IMPROVEMENTS UNLESS OTHERWISE NOTED.
8. PROVIDE EXPANSION ISOLATION JOINTS WHERE CONCRETE PAVING OR PAVING BASE MEETS A FIXED STRUCTURE (EXISTING OR PROPOSED).
9. PROVIDE FLUSH CONDITIONS AT JUNCTURE OF ALL WALKWAYS.
10. THESE CONSTRUCTION DRAWINGS HAVE BEEN CREATED WITH AUTOCAD SOFTWARE USING SITE BENCHMARKS AND A SITE COORDINATE SYSTEM BASED ON THE PROVIDED SURVEY FILE. AN ELECTRONIC COPY OF THE DRAWING FILES, SUITABLE FOR DOWNLOADING INTO SURVEY SOFTWARE WILL BE PROVIDED FOR CONSTRUCTION LAYOUT.
11. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES ON WHICH THE WORK IS BEING DONE CLEAR OF RUBBISH AND DEBRIS.
12. DO NOT INTERFERE WITH USE OF ADJACENT BUILDINGS, PARKING LOTS, STREETS OR ALLEYS.
13. SEED AND HYDROMULCH ALL LAWN AREAS DISTURBED BY CONSTRUCTION.



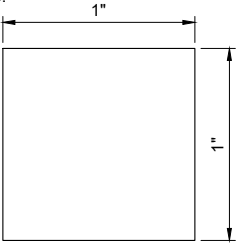
City of
Evanston™

Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

2025 COURT
IMPROVEMENTS:
JAMES, LEAHY,
ACKERMAN, &
MASON PARKS

NOTES:



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DRAWING SCALE: 1"= 40'-0"

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SHEET TITLE

MASON PARK
PROPOSED
SITE PLAN

SHEET NO.

C-04

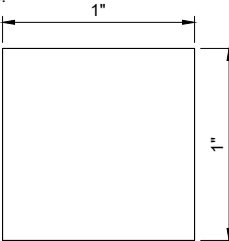


ADD ALTERNATE 3

PROJECT NAME:

**2025 COURT
IMPROVEMENTS:
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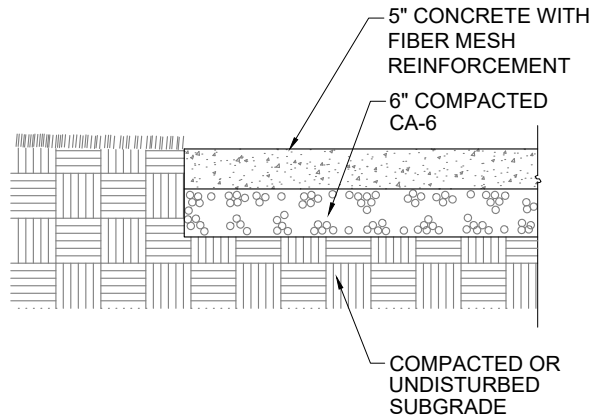
NO.	DESCRIPTION
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SHEET TITLE

DETAILS

SHEET NO.

D-01

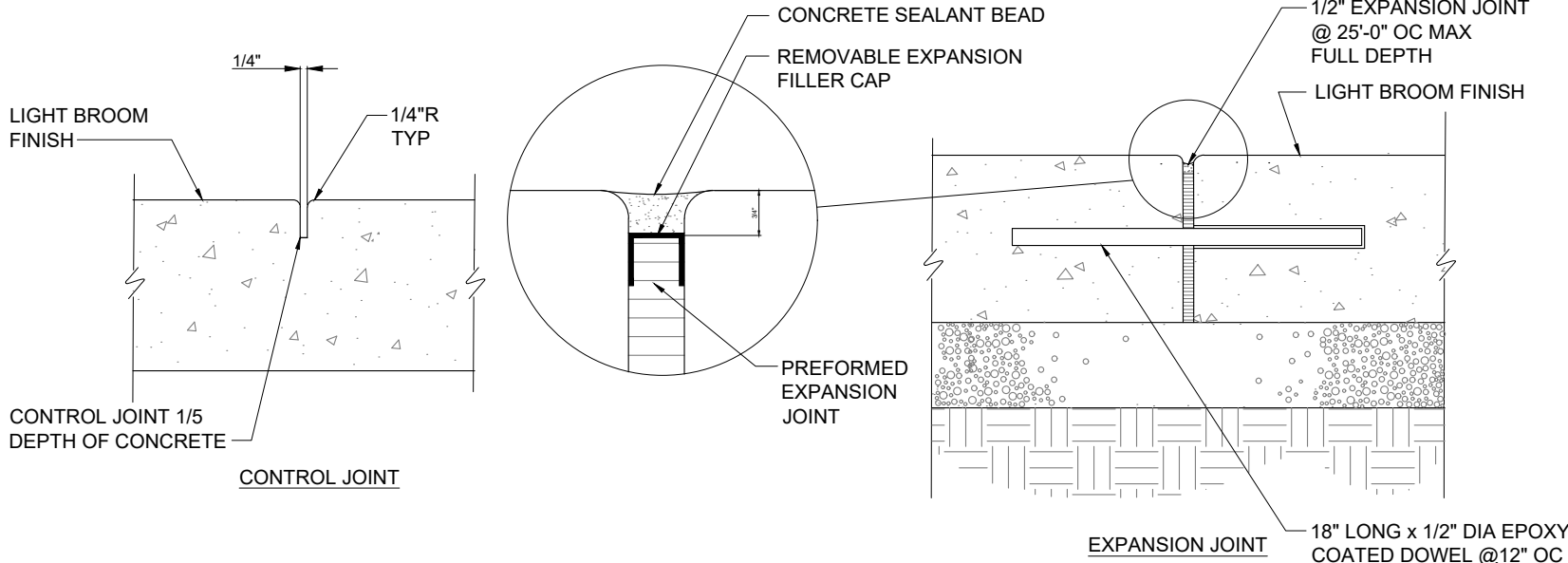


NOTES:

1. SEE DETAIL B SHEET D-01 FOR JOINTS.
2. CONTRACTOR SHALL PLACE CONTROL JOINTS EVERY 5' AND EXPANSION JOINTS EVERY 25' OR AS SHOWN ON PLANS.

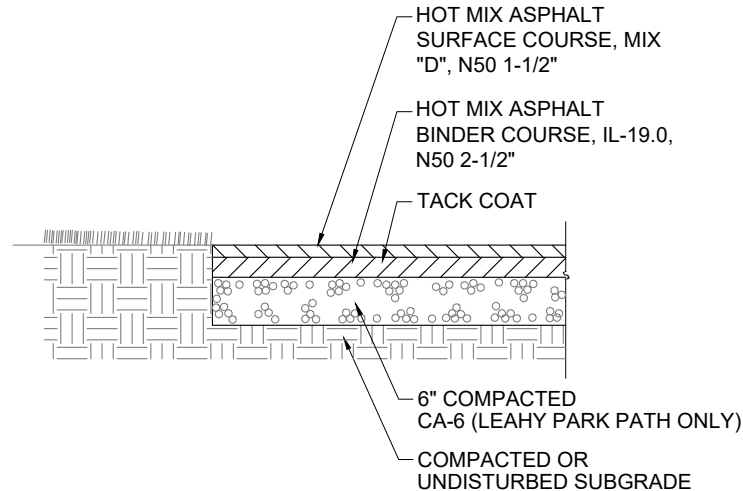
A CONCRETE PAVEMENT

NOT TO SCALE



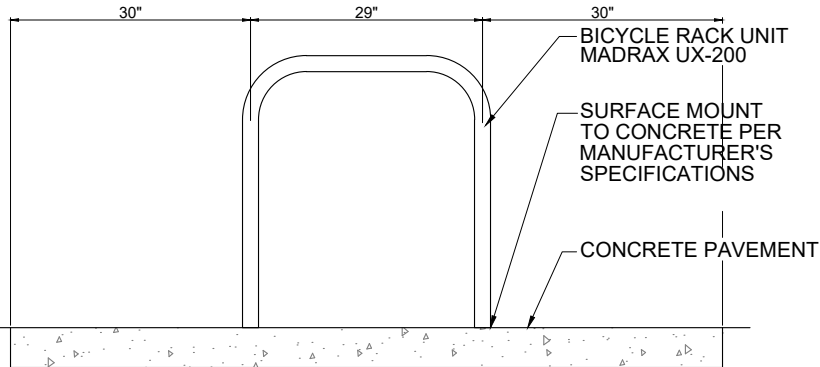
B CONTROL AND EXPANSION JOINTS

NOT TO SCALE



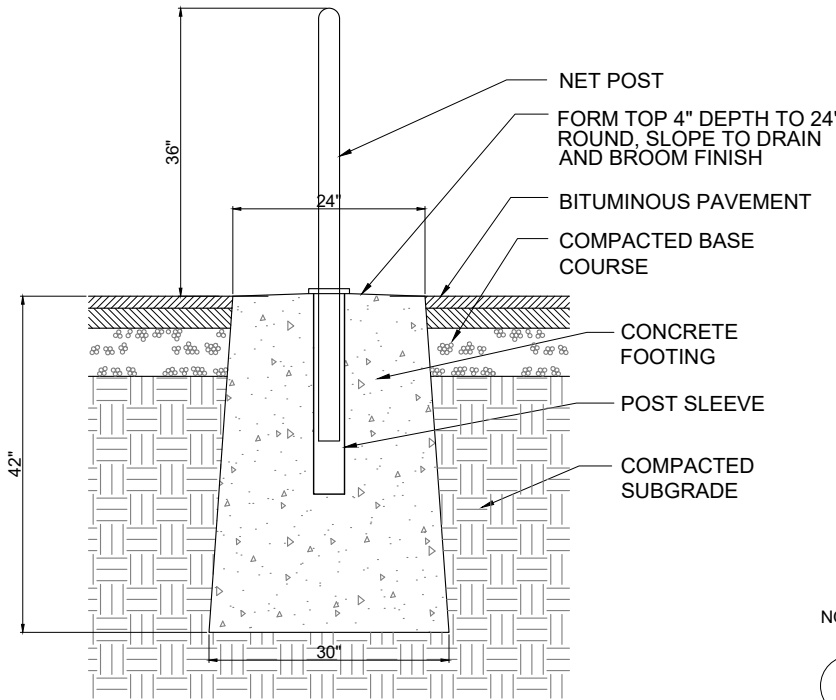
D ASPHALT PAVEMENT - LEAHY & MASON PARK

NOT TO SCALE



D BIKE RACK

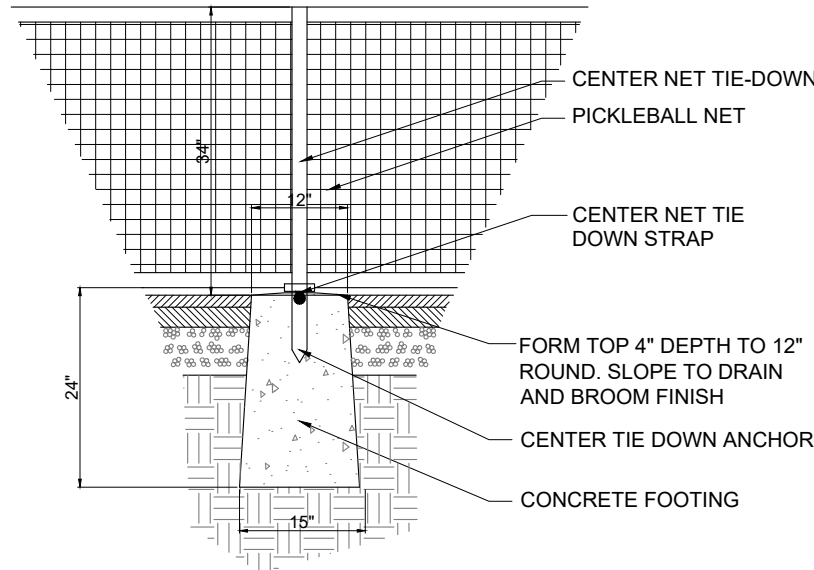
NOT TO SCALE



NOTE: TOP OF CONCRETE FOOTING TO MATCH COURT SURFACE COLOR

E PICKLEBALL NET POST

NOT TO SCALE



NOTE: TOP OF CONCRETE FOOTING TO MATCH COURT SURFACE COLOR

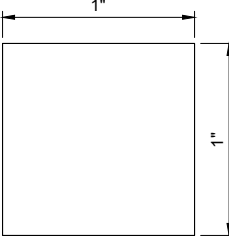
F PICKLEBALL NET ANCHOR

NOT TO SCALE

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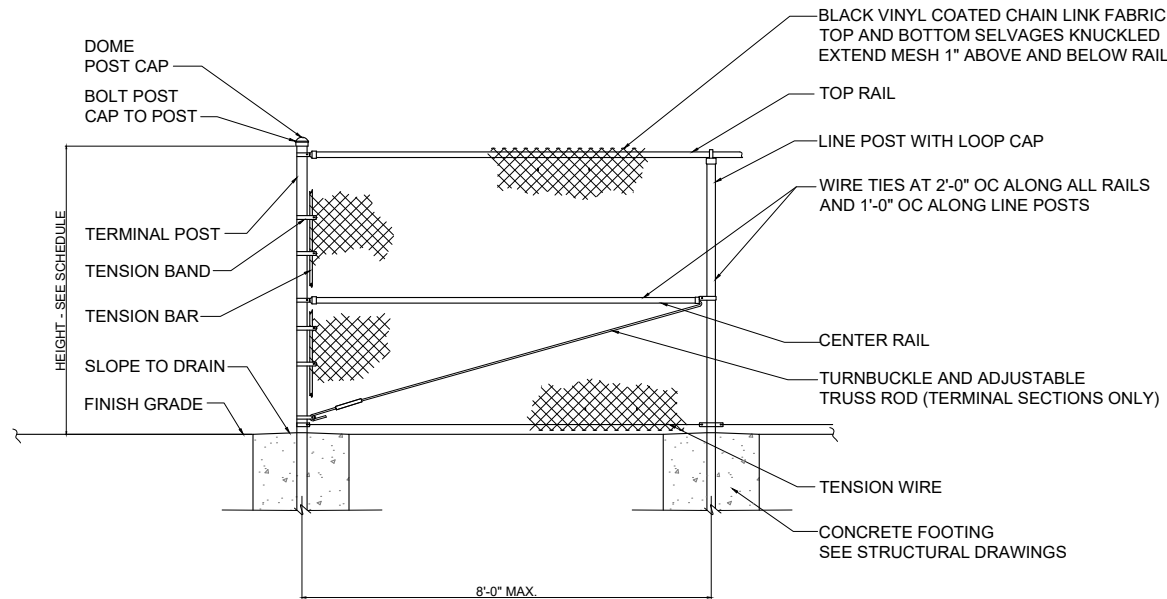
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SHEET TITLE

DETAILS

SHEET NO.

D-02

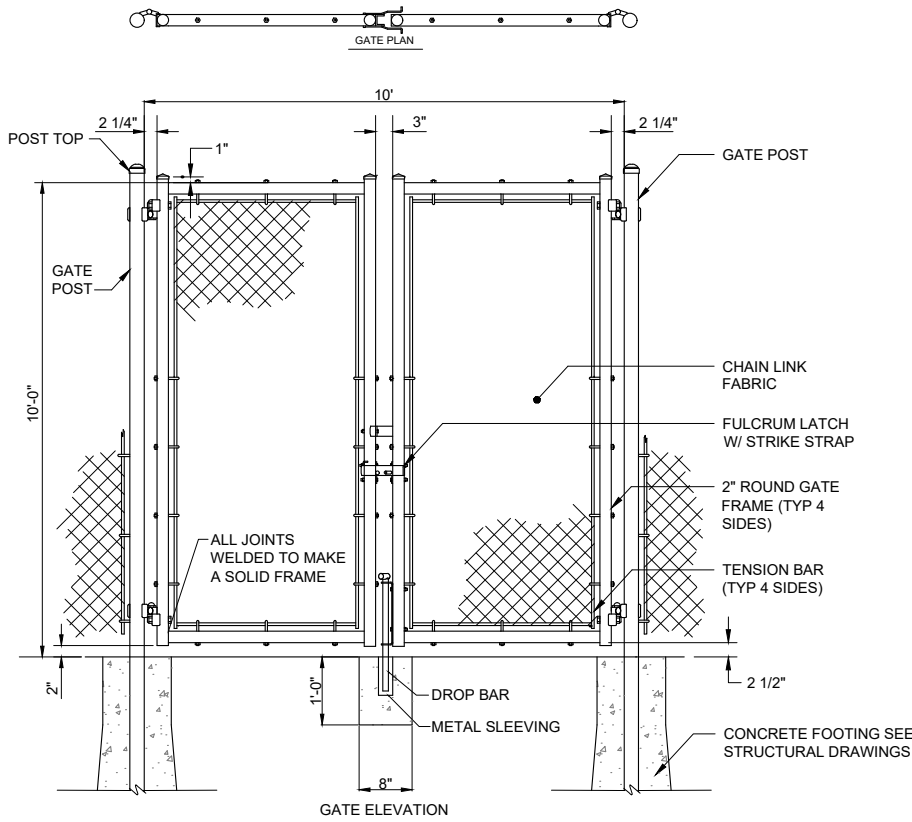


FENCE SCHEDULE

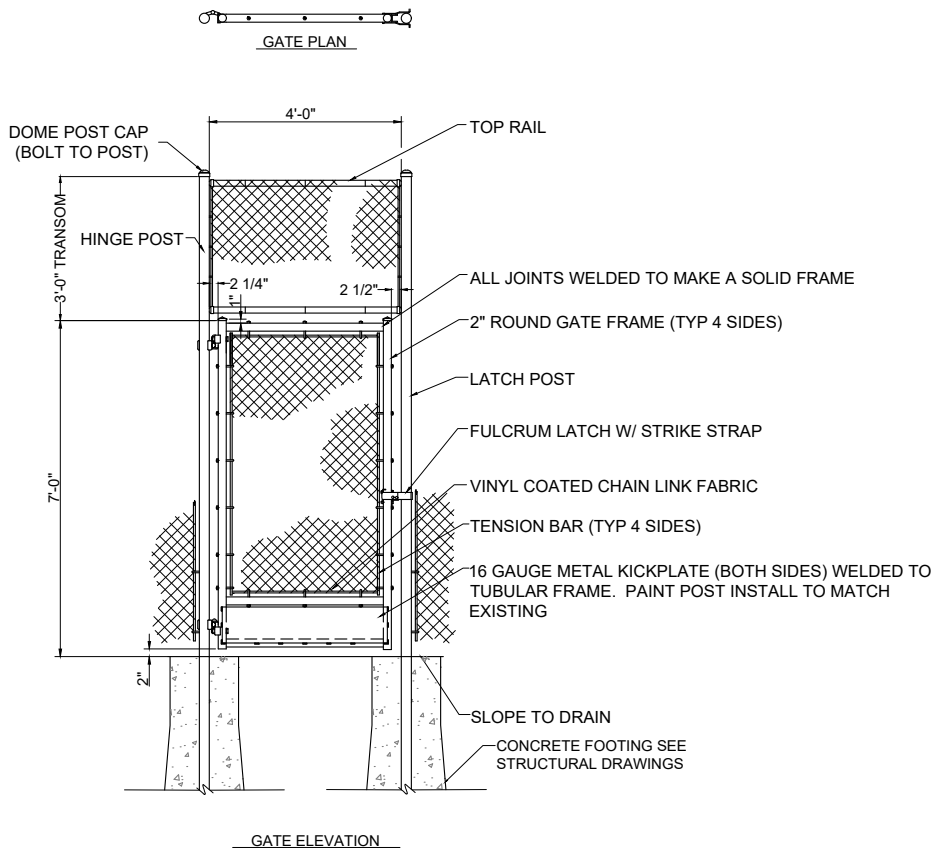
HEIGHT	FABRIC	TERMINAL POST	LINE POST	TOP RAIL	CENTER RAIL	BOTTOM RAIL	TRUSS ROD W/ TURNBUCKLE	BOTTOM TENSION WIRE
4'-0"	11 GA, 1 3/4" MESH	2 1/2" DIAMETER	2" DIAMETER	1 5/8" DIAMETER	NONE	NONE	NONE	7 GA
10'-0"	11 GA, 1 3/4" MESH	4" DIAMETER	4" DIAMETER	1 5/8" DIAMETER	1 5/8" DIAMETER	NONE	TERMINAL SECTIONS ONLY	7 GA

- NOTE:
- NORTH FENCE TO HAVE ACOUSTIC PANELS INSTALLED PER MANUFACTURER SPECIFICATIONS
 - EAST, WEST, AND SOUTH FENCES TO HAVE WINDSCREENS INSTALLED PER MANUFACTURER SPECIFICATIONS

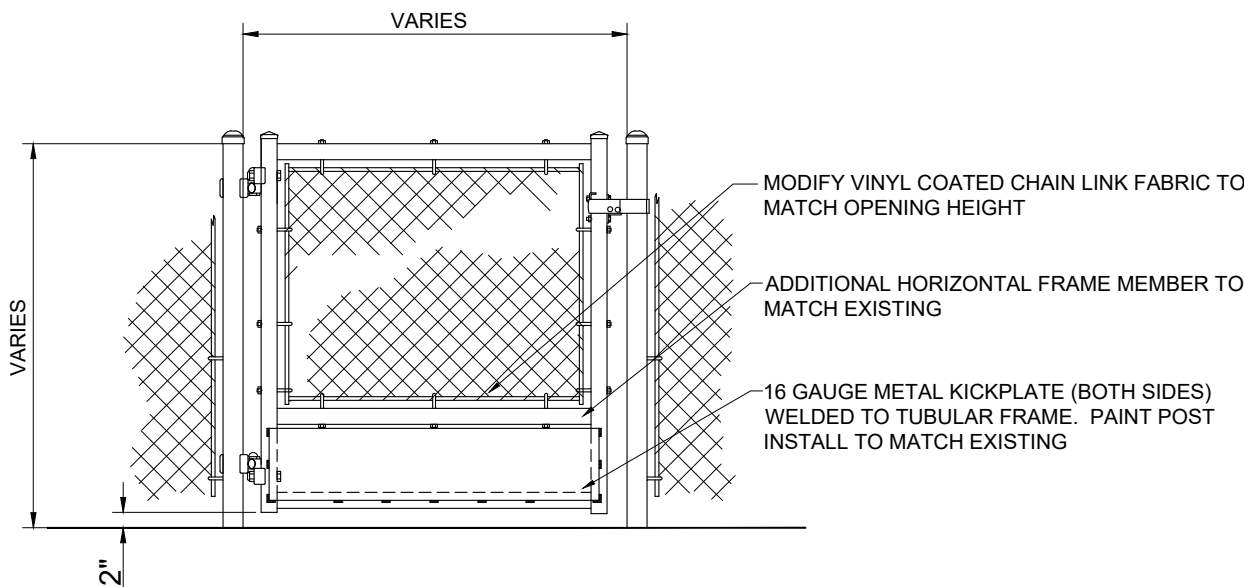
A VINYL COATED CHAIN LINK FENCING NOT TO SCALE



B DOUBLE SWING GATE NOT TO SCALE



C SINGLE SWING GATE WITH TRANSOM NOT TO SCALE



D EXISTING SWING GATE ADA MODIFICATION NOT TO SCALE

1) GENERAL NOTES

- a) SUBMITTALS
 - i) SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING: CONCRETE REINFORCEMENT, AND STRUCTURAL STEEL.
 - ii) IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE WHO IS RESPONSIBLE FOR THE DESIGN.
- b) SPECIAL INSPECTIONS PER IBC CHAPTER 17 SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING. ALL PREPARED SOIL-BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. SOIL COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL ENGINEER.
- c) ALL FRAMING MEMBERS SHALL BE EQUALLY SPACED BETWEEN GRID LINES, COLUMNS, AND DIMENSIONED FRAMING UNLESS NOTED OTHERWISE.

2) FOUNDATIONS

- a) FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TESTING SERVICE CORPORATION, DATED APRIL 12, 2023.A COPY OF THE REPORT AND ALL ADDENDA ARE PART OF THE CONTRACT DOCUMENTS.
- b) THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE FINDINGS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SHALL PERFORM ALL EARTHWORK OPERATIONS AND FOUNDATION INSTALLATION OPERATIONS IN ACCORDANCE WITH THESE RECOMMENDATIONS.
- c) FOUNDATIONS ARE DESIGNED BASED ON THE FOLLOWING ASSUMED INFORMATION:
 - i) FOOTINGS:
LATERAL BEARING PRESSURE: 100 PSF
- d) THE CONTRACTOR WILL RETAIN A QUALIFIED GEOTECHNICAL ENGINEER TO INSPECT ALL BEARING SURFACES AND EARTHWORK OPERATIONS.
- e) SITE PREPARATION ACTIVITIES WITHIN THE BUILDING LIMITS AND EXTENDING 10 FEET BEYOND SHALL BE MONITORED AND VERIFIED BY A REGISTERED GEOTECHNICAL ENGINEER LICENSED IN THE PROJECT STATE. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT ACTUAL SITE CONDITIONS ARE CONSISTENT WITH THE ASSUMED CRITERIA.
- f) PRIOR TO CONSTRUCTION OF ANY PERMANENT STRUCTURE, EXISTING SURFACE FILL, TOPSOIL AND ORGANIC MATERIAL, WET, SOFT, LOOSE, OR UNDESIRABLE SOIL, AND OLD ABANDONED CONCRETE AND UTILITIES SHALL BE REMOVED TO THE EXTENT RECOMMENDED BY THE GEOTECHNICAL REPORT.

- g) CONCRETE FOR FOOTINGS SHALL BE PLACED THE SAME DAY EXCAVATIONS ARE OPENED. IF THIS IS IMPOSSIBLE, STEPS SHALL BE TAKEN TO ADEQUATELY PROTECT THE OPEN EXCAVATION FROM WEATHER.
- h) FOOTINGS SHALL BE SUPPORTED ON SOIL PREPARED PER THE ASSUMED CRITERIA. EXCAVATE AND REPLACE EXISTING LOOSE OR WEATHERED SOILS OR UNCERTIFIED FILL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER’S RECOMMENDATIONS. GEOTECHNICAL ENGINEER TO VERIFY ACTUAL DEPTH AND EXTENT OF REMOVED SOIL IN THE FIELD DURING GRADING AND EXCAVATION.
- i) ALL FOOTING EXCAVATIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER BEFORE THE CONCRETE IS PLACED. THE ADEQUACY OF THE BEARING SURFACE SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER. ALL GEOTECHNICAL FIELD REPORTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER.
- j) CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, AND/OR SEEPAGE.
- k) DO NOT LOCATE UTILITIES BENEATH FOOTINGS. STEP FOOTINGS ACCORDING TO THE TYPICAL DETAILS AND PROVIDE SLEEVES IN FOUNDATION WALL FOR UTILITIES.

Public Works Agency
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LICENSED STRUCTURAL ENGINEER

GREGORY GERARD
BUCCOLA
081-008381



Drawn By:	CA
Designed By:	JM
Project No:	2500059
Date:	03-14-2025

3) CAST-IN-PLACE CONCRETE

- a) CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF IBC CHAPTER 19 AND ACI 318.
- b) CONCRETE MIXTURES
 - i) NORMAL WEIGHT CONCRETE MIXTURES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

CONCRETE MIXTURES						
f'c (PSI)	TEST AGE (DAYS)	EXPOSURE CLASS				USE
4,000	28	F0	S0	W0	C0	FOUNDATIONS

- ii) CONCRETE MIXTURES SHALL CONFORM TO THE MOST STRINGENT REQUIREMENTS FOR EXPOSURE CLASSES SPECIFIED IN THE TABLE ABOVE AND ACI 318 TABLE 19.3.2.1.
- iii) WATER-REDUCING ADMIXTURES MAY BE INCORPORATED IN CONCRETE MIX DESIGNS BUT SHALL CONFORM TO ASTM C494 AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CaCl₂ OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.
- iv) WATER/CEMENTITIOUS MATERIALS RATIO SHALL BE MEASURED BY WEIGHT AND SHALL BE BASED ON TOTAL CEMENTITIOUS MATERIAL. WATER/CEMENTITIOUS MATERIALS RATIO AND WATER CONTENT SHALL BE DETERMINED BY THE SUPPLIER BASED ON STRENGTH REQUIREMENTS AND SHALL NOT EXCEED THE MAXIMUM WATER/CEMENTITIOUS MATERIAL RATIO AND/OR WATER CONTENT IF SHOWN ABOVE OR IN ACI 318 TABLE 19.3.2.1 FOR THE EXPOSURE CLASSES LISTED.
- v) FIELD-MEASURED SLUMP SHALL CONFORM TO THE SUBMITTED CONCRETE MIX DESIGN. TOLERANCE OF SLUMP SHALL CONFORM TO ASTM C94.
- vi) MAXIMUM CONCRETE SLUMP SHALL BE 4" WITHOUT A HIGH-RANGE WATER REDUCING ADMIXTURE (HRWR) OR 8" WITH A HRWR ADMIXTURE AT POINT OR DEPOSIT. SIZE OF AGGREGATE AND GRADATION SHALL CONFORM TO ASTM C33 FOR NORMAL WEIGHT CONCRETE. THE COMBINED TOTAL MASS PERCENT OF DELETERIOUS SUBSTANCES, INCLUDING, BUT NOT LIMITED TO, COAL AND LIGNITE, FOR BOTH COARSE AND FINE AGGREGATES SHALL BE LIMITED TO 0.5% AS DETERMINED BY ASTM C123.
- vii) PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I/II FOR ALL CONCRETE.
- c) MEASURING, MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 304R. CONCRETE SHALL BE MECHANICALLY VIBRATED.

- i) IF THE AIR TEMPERATURE WILL EXCEED 75° F WITHIN 48 HOURS OF PLACING CONCRETE, A MOIST CURE SHALL BE APPLIED TO THE CONCRETE FOR A PERIOD OF 36 HOURS AFTER FINISHING CONCRETE SURFACES. REFER TO THE SPECIFICATIONS FOR CURING REQUIREMENTS.
- d) BEFORE PLACING CONCRETE, THE CONTRACTOR SHALL NOTIFY ALL SUBCONTRACTORS TO BE SURE ALL SLEEVES, CONDUIT, CHASES, ETC. ARE PROPERLY INSTALLED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/EOR/SPECIAL INSPECTOR AS SOON AS PRACTICAL, BUT AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE TO ALLOW FOR INSPECTION OF REINFORCING AND EMBEDDED ITEMS.
- e) REINFORCING STEEL
- | | |
|---------------|---------------------|
| DEFORMED BARS | ASTM A615, GRADE 60 |
|---------------|---------------------|
- f) REINFORCING SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI STANDARD OF PRACTICE AS OUTLINED IN ACI 315.
- g) PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI DETAILING MANUAL. ALL BAR SUPPORTS IN AREAS WHERE CONCRETE WILL BE EXPOSED SHALL HAVE PLASTIC FEET. PRECAST CONCRETE ($f'_c = 3,000$ PSI) BLOCKS 3"x3"x3" SHALL BE USED TO SUPPORT REINFORCING OFF OF THE GROUND. AT ALL OTHER LOCATIONS, CHAIRS OR STANDEES SHALL BE USED. LIFTING OF HOOK IS NOT PERMITTED.
- h) DETAILING, FABRICATION, AND PLACING OF REINFORCING SHALL CONFORM TO APPLICABLE PROVISIONS OF ACI 315 AND ACI 318.
- i) ALL REINFORCING SHALL BE CLEAN OF RUST, GREASE, SOIL, OR OTHER MATERIALS THAT MAY IMPAIR BOND.
- j) REINFORCING BAR MAY BE BENT ONCE, AND THE BEND SHALL BE MADE COLD.
- k) REINFORCING BARS SHALL BE IN PLACE AND SECURED PRIOR TO POURING CONCRETE. STICKING OF REINFORCING BARS IS NOT PERMITTED.
- l) REINFORCING BAR SHOP DRAWINGS SHALL SHOW NUMBER, SIZE, AND LOCATION OF BARS, AS WELL AS LAP LENGTH AND CLEAR COVER. DETAILING SHALL BE IN ACCORDANCE WITH ACI SP-66 (04)
- m) REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS, UNLESS NOTED OTHERWISE:
- | | |
|--------------------------------|--------------|
| <u>USE</u> | <u>COVER</u> |
| FOOTING TIES AND REINFORCEMENT | 1 1/2" |
- n) WELDING OF REINFORCING, WHERE APPROVED BY THE EOR, SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES AND PREHEATED IN ACCORDANCE WITH AWS D1.4. WELDERS AND WELDING PROCEDURES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.4. MATERIALS SHALL CONFORM TO THE FOLLOWING:
- (1) REINFORCING BARS TO BE WELDED: ASTM A706, GRADE 60, LOW ALLOY
 - (2) WELDING ELECTRODES: E80XX

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GENERAL NOTES

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Drawn By:	CA
Designed By:	JM
Project No:	2500059
Date:	03-14-2025

4) **STRUCTURAL STEEL**

- a) STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH IBC CHAPTER 22, AISC 360, AISC 303, AND AWS.

b) STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATIONS INDICATED BELOW (UNO):

PIPE

A53 GR B

c) CONNECTIONS NOT INDICATED ON THE CONTRACT DRAWINGS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE, RETAINED BY THE STEEL FABRICATOR. ALL CALCULATIONS AND SHOP DRAWINGS SHALL HAVE A COVER SHEET DULY STAMPED AND SIGNED BY THE REGISTERED STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE AND SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. STAMPING AND SIGNING OF SHOP DRAWINGS SHALL BE FOR THE EXCLUSIVE PURPOSE OF CERTIFYING THAT THE CONNECTIONS ARE DETAILED AS PER THE DESIGN PERFORMED BY THE REGISTERED STRUCTURAL ENGINEER. FAILURE TO SUBMIT STAMPED AND SIGNED CALCULATIONS AND STAMPED AND SIGNED SHOP DRAWINGS SHALL BE SUFFICIENT CAUSE FOR REJECTION OF SHOP DRAWINGS.

d) THE CONTRACTOR SHALL BE LIABLE FOR DIMENSIONS, FIT, TOLERANCES, FABRICATION, AND ERECTION.

e) STEEL FRAMEWORK SHALL NOT BE ASSUMED STRUCTURALLY STABLE UNTIL ALL MEMBERS ARE IN PLACE AND CONNECTIONS ARE INSTALLED. ANY USE OF THE PARTIALLY ERECTED FRAMEWORK FOR TEMPORARY SUPPORT OF ANY KIND SHALL BE DONE ONLY AT THE CONTRACTOR’S RISK.

f) BURNING OF HOLES IN STRUCTURAL STEEL IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR RECORD.

g) MAINTAIN WORK IN A SAFE A STABLE CONDITION DURING ERECTION. PROVIDE TEMPORARY SHORING AND BRACING MEMBERS AS REQUIRED, WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE TEMPORARY MEMBERS AND CONNECTIONS WHEN PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE. PROVIDE TEMPORARY GUY LINES TO ACHIEVE PROPER ALIGNMENT AND STABILITY OF THE STRUCTURE AS ERECTION PROCEEDS.

h) ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123, UNO BY ARCHITECT. FIELD WELDS AND DAMAGED GALVANIZING SHALL BE COATED WITH A ZINC-RICH PAINT, MINIMUM 2 MIL THICK, APPLIED TO A CLEAN, DRY STEEL SURFACE BY EITHER A BRUSH OR SPRAY. ZINC-RICH PAINTS MUST CONTAIN EITHER BETWEEN 65% TO 69% METALLIC ZINC BY WEIGHT OR GREATER THAN 92% METALLIC ZINC BY WEIGHT IN THE DRY FILM.

i) AFTER MATERIAL HAS BEEN PROPERLY CLEANED AND TREATED, APPLY SHOP PRIME COAT TO ALL SURFACES, EXCEPT THOSE INTENDED FOR EMBEDMENT INTO CONCRETE OR TO RECEIVE FIELD WELDING, SLIP CRITICAL BOLTS, OR CEMENTITIOUS FIREPROOFING. PROVIDE “TOUCH-UP” AT SITE. MINIMUM DRY FILM THICKNESS SHALL BE 1.5 MIL.

5) **MISCELLANEOUS**

- a) NO CHANGE IN SIZE OF STRUCTURAL ELEMENTS OR MODIFICATION THEREOF SHALL BE MADE, NOR ARE ANY OPENINGS OR SLEEVES THROUGH ANY STRUCTURAL ELEMENTS PERMITTED, UNLESS DETAILED ON THE STRUCTURAL DRAWINGS.
- b) CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZES, AND EXTENT OF CHASES.
- c) NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE SHOWN FOR SIMILAR WORK.
- d) SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

i) SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS IN FENCE, EXCEPT AS NOTED.

ii) DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

iii) INSERTS, RECESSES, REGLETS, FINISHES, DEPRESSIONS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- e) SEE CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

i) ELECTRICAL CONDUIT RUNS, BOXES, AND OUTLETS IN WALLS AND SLABS

ii) CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES.

iii) SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS, EQUIPMENT PADS, AND UNDERGROUND UTILITIES.

iv) FINISHED GRADE, SITE PAVING, AND ELEVATIONS
- f) PIPES LARGER THAN 1 1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED. NO CONDUIT/PIPING SHALL BE PLACED IN CONCRETE FILL OVER METAL DECKING.
- g) SPECIAL STRUCTURAL TESTS AND SPECIAL INSPECTIONS ARE REQUIRED ON THIS PROJECT IN ACCORDANCE WITH THE BUILDING CODE. THE CONTRACTOR WILL BEAR THE COSTS OF THE SPECIAL STRUCTURAL TESTS AND SPECIAL INSPECTIONS. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THE INSPECTIONS AND TESTING ALONG WITH THE CONSTRUCTION AND COORDINATE AND SCHEDULE THE INSPECTIONS AND TESTING ALONG WITH THE CONSTRUCTION AND COOPERATE FULLY WITH THE AGENCIES PERFORMING THE SPECIAL STRUCTURAL TESTS AND SPECIAL INSPECTIONS.

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LICENSED STRUCTURAL ENGINEER

GREGORY GERARD
BUCCOLA
081-008381

3/4/25

Drawn By:	CA
Designed By:	JM
Project No:	2500059
Date:	03-14-2025

6) **CONTRACTOR RESPONSIBILITIES**

- a) MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE BUILDING CODE.
- b) CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- c) CONTRACT DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL THE DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT/ENGINEER.
- d) VERIFY THE DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCY BETWEEN SUCH DETAILS AND DIMENSIONS AS MAY OCCUR SHALL BE REPORTED TO THE ARCHITECT/EOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- e) DUE TO THE NATURE OF THE WORK, ALL DIMENSIONS AND/OR EXISTING DETAILS SHOWN ON THE DRAWINGS THAT WILL IN ANY WAY AFFECT THE WORK SHALL BE FIELD-VERIFIED PRIOR TO FABRICATION OF ANY MATERIALS. FIELD-VERIFICATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF THERE IS ANY QUESTION TO THE INTENT OF THE WORK INDICATED, THE CONTRACTOR SHALL CLEAR THE QUESTION WITH THE ARCHITECT/EOR. FIELD-VERIFY TOP OF EXISTING CONCRETE AND TOP OF EXISTING STEEL AT LOCATIONS WHERE NEW STRUCTURE CONNECTS TO EXISTING STRUCTURE.
- f) THE CONTRACTOR SHALL BE AWARE THAT THE WORK INVOLVES ADDITIONS TO AN EXISTING FACILITY THAT WILL REMAIN IN OPERATION DURING CONSTRUCTION. IT IS THEREFORE MANDATORY FOR WORK THAT WILL IN ANY WAY AFFECT THE NORMAL OPERATION OF THE FACILITY BE COORDINATED WITH THE OWNER.
- g) NOTIFY, IN WRITING, THE EOR OF CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE SHOWN IN THE STRUCTURAL DOCUMENTS.
- h) THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE EOR SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- i) AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING EXCAVATION WORK.

- j) CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC.
- k) CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA SAFETY REGULATIONS.
- l) CONTRACTOR SUBMITTALS/SHOP DRAWINGS

i) SUBMITTALS FOR REINFORCING STEEL AND STRUCTURAL STEEL SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

ii) DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE EOR; THEREFORE, THEY SHALL BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP THE DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.

iii) SHOP DRAWINGS SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWINGS SUBMITTALS IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED, AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHOD. IF ANY DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWINGS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE EOR, THE CONTRACT DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

iv) REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE EOR DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR THE ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENT.

v) DIMENSIONS NOTED AS PLUS OR MINUS (±) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY ARCHITECT IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM INDICATED DIMENSIONS. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS-**DO NOT SCALE DRAWINGS**. DIMENSIONS OF EXISTING CONDITIONS MAY BE BASED ON RECORD DRAWINGS AND ARE TO BE FIELD-VERIFIED BY THE CONTRACTOR.

vi) CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITIONS. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION AND SOIL EXCAVATIONS, AS REQUIRED, AND IN A MANNER SUITABLE TO THE WORK SEQUENCE. TEMPORARY SHORING AND BRACING SHALL NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND MATERIALS HAVE ACHIEVED DESIGN STRENGTH. NO REINFORCING BAR IN EXISTING CONSTRUCTION SHALL BE CUT UNLESS DIRECTED TO BY THE ARCHITECT OR AS SHOWN ON THE DRAWINGS.

Public Works Agency
2100 Ridge Avenue
Evanston, Illinois
60201

PROJECT ADDRESS:
CITY OF EVANSTON,
ILLINOIS

PROJECT NAME:

2025 COURT
IMPROVEMENTS:
JAMES, LEAHY,
ACKERMAN, &
MASON PARKS

NOTES:

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1"

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LICENSED STRUCTURAL ENGINEER
GREGORY GERARD
BUCCOLA
081-008381
ILLINOIS



Drawn By:	CA
Designed By:	JM
Project No:	2500059
Date:	03-14-2025

STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE REFERENCE CODES AND STANDARDS LISTED IN CHAPTER 35.
2. INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED QUALIFIED TESTING AND INSPECTING AGENCY MEETING THE REQUIREMENTS OF ASTM E329 (MATERIALS), ASTM D3740 (SOILS), ASTM C1077 (CONCRETE), AND ASTM A880 (STEEL). THE TESTING AND INSPECTING AGENCY SHALL FURNISH TO THE ARCHITECT/ENGINEER A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.
3. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY UPON DISCOVERY.
4. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT/ENGINEER, CONTRACTOR, AND OWNER. THE TESTING AND INSPECTING AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
5. CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
6. OBSERVE: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM: PERFORM THESE TASKS FOR EACH ELEMENT.
7. INDICATED CONCRETE TESTING MEETS MINIMUM REQUIREMENTS FOR STRUCTURAL TESTING TO BE PROVIDED BY THE APPROVED QUALIFIED TESTING AND INSPECTING AGENCY. ADDITIONAL TESTING FOR CONSTRUCTION CONSIDERATIONS ARE NOT INDICATED AND SHALL BE DETERMINED BY THE CONTRACTOR AND PROVIDED AT CONTRACTOR'S EXPENSE.
8. ALL INSPECTIONS/SERVICES TO BE PROVIDED BY THE CONTRACTOR.

REQUIRED FABRICATION SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC REFERENCE	CODE OR STANDARD REFERENCE	CONTINUOUS	PERIODIC	
INSPECTION IN FABRICATION SHOP	1704.2.5	--	--	--	WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE AS REQUIRED BY TABLE 2 AND AS REQUIRED ELSEWHERE IN THE STATEMENT OF SPECIAL INSPECTIONS. REFERENCE SECTION 1704.2.5.1 FOR APPROVED FABRICATOR EXCEPTION.

REQUIRED FABRICATION SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC REFERENCE	CODE OR STANDARD REFERENCE	CONTINUOUS	PERIODIC	
INSPECT REINFORCEMENT, INCLUDING EMBEDMENTS AND PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	TB 1705.3 (1) 1705.3 1908.4	ACI 318: 20, 25.2-25.3, 26.6.1-26.6.3, 26.8, 26.13.3	--	--	TOLERANCE AND REINFORCING PLACEMENT PER ACI 318: 26.6
VERIFY CURING METHOD AND DURATION OF CURING FOR EACH MEMBER.	--	ACI 318: 26.13.3.3(b)	--	X	--
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	TB 1705.3(8) 1705.3 1908.9	ACI 318: 26.5.3-26.5.5, 26.13.3	--	X	--

REQUIRED CONCRETE TESTING					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC REFERENCE	CODE OR STANDARD REFERENCE	CONTINUOUS	PERIODIC	
COMPOSITE SAMPLES	1903 1705.3	ASTM C 172 ACI 318: 26.12	ONE SAMPLE FOR EA 150 CY NOR LESS THAN 5,000 SQ FT OF SLABS AND WALLS, ONE SET PER DAY MIN		OBTAIN WHEN FRESH CONCRETE IS PLACED FOR EACH MIX DESIGN USED
CONCRETE STRENGTH, UNO		ASTM C 39 ACI 318: 26.12	EACH SAMPLE: 1 CYL - 7 DAYS 3 CYL - TEST AGE 1 CYL - HOLD		(NOTE 9) REFER TO GENERAL NOTES FOR TEST AGE. FOR 6 BY 12-INCH CYLINDERS, 2 CYLINDERS AT TEST AGE IS PERMITTED. CYL = CYLINDER
CONCRETE SLUMP		ASTM C 143	ONE TEST PER COMPOSITE SAMPLE		AT POINT OF PLACEMENT
CONCRETE AIR CONTENT		ASTM C 231	ONE TEST PER COMPOSITE SAMPLE		MIN ONE PER DAY
CONCRETE TEMPERATURE		ASTM C 1064	ONE TEST PER COMPOSITE SAMPLE		ONE TEST PER HOUR WHEN AIR TEMP IS BELOW 40 DEG F OR ABOVE 80 DEG F

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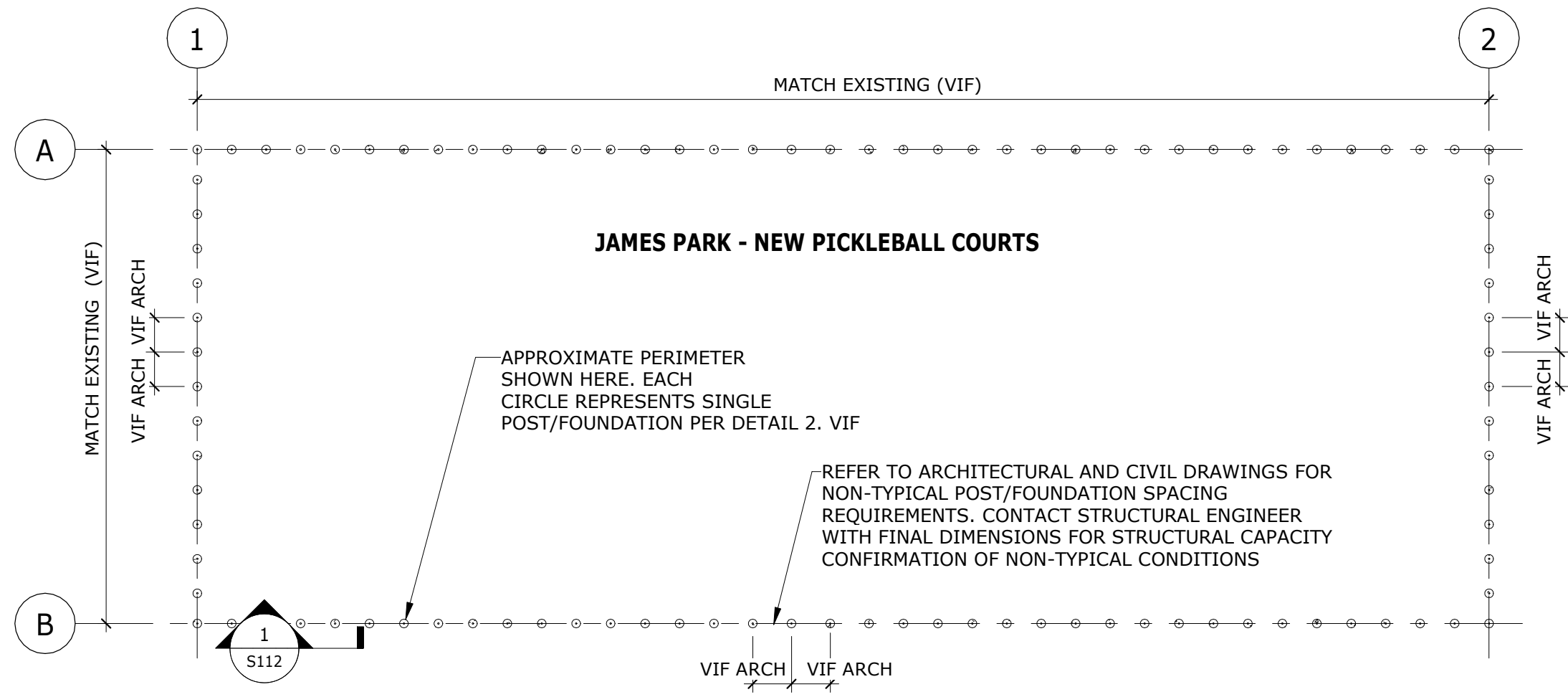
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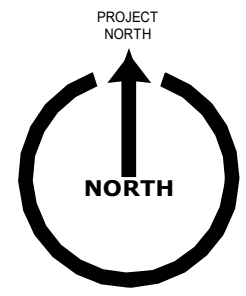
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GREGORY GERARD
BUCCOLA
081-008381
STATE OF ILLINOIS
3/4/25

Drawn By:	CA
Designed By:	JM
Project No:	2500059
Date:	03-14-2025



1 FOUNDATION PLAN

SCALE: 1/32" = 1'-0"





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Gregory Gerard Buccola
3/11/25

Drawn By:	CA
Designed By:	JM
Project No:	2500059
Date:	03-14-2025

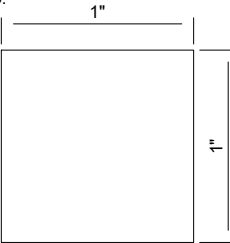
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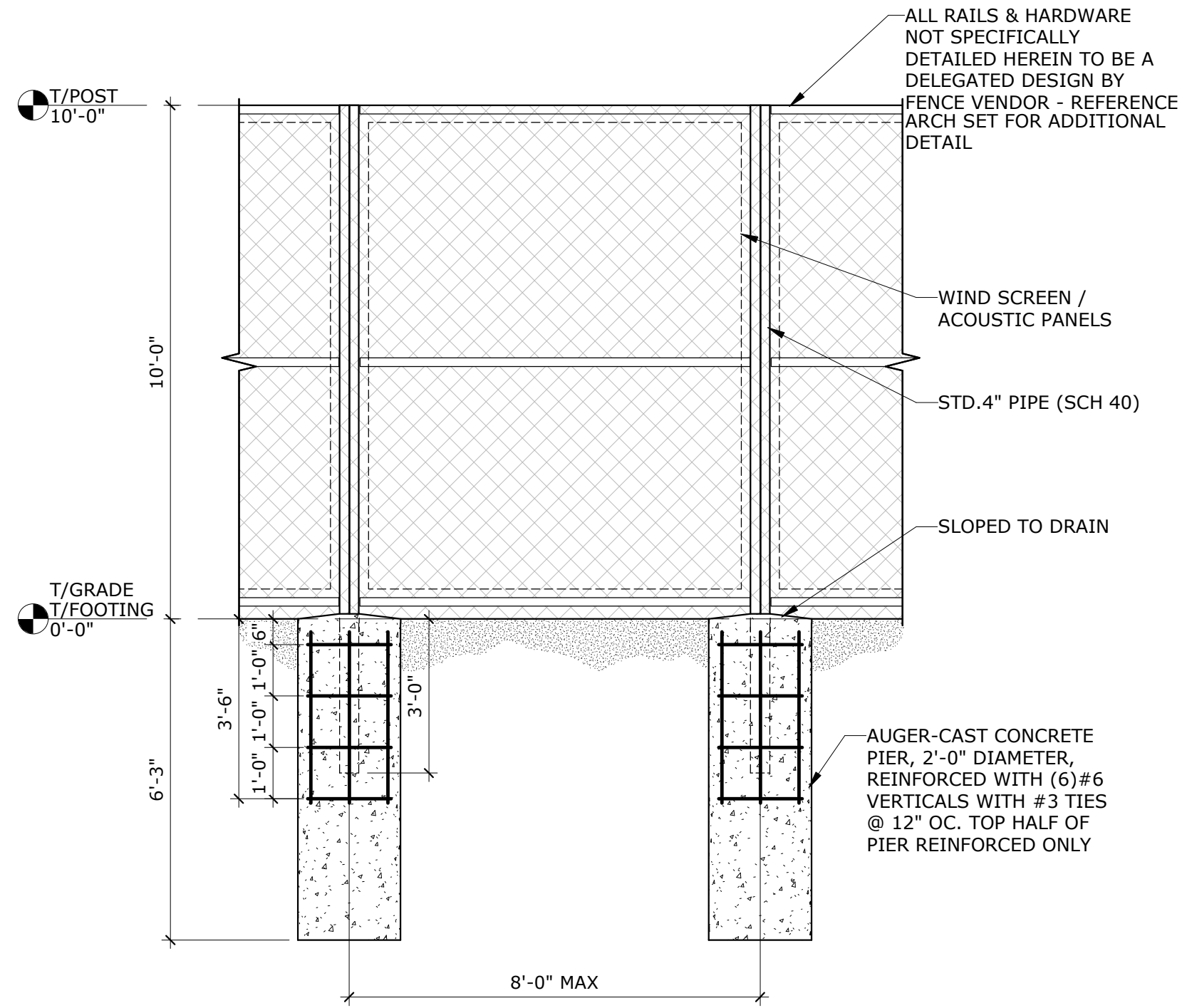
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1 FRAMING & FOUNDATION ELEVATION
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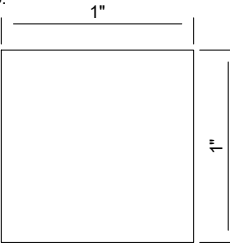
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GEOTECHNICAL REPORT

James Park Athletic Fields Lighting

City of Evanston, Cook County, Illinois

Prepared for:

City of Evanston
2100 Ridge Avenue
Evanston, IL 60201



Interra Project No: 8916

7/26/2021

Ms. Stefanie Levine, PA
Senior Project Manager
Public Works Agency
Lorraine H. Morton Civic Center
City of Evanston
2100 Ridge Avenue
Evanston, IL 60201

GEOTECHNICAL REPORT

James Park Athletic Fields Lighting
City of Evanston, Cook County, Illinois

Dear Ms. Levine:

Interra, Inc. is pleased to submit this report on subsurface soil exploration performed at the above referenced project site in Evanston, Illinois. The purpose of the investigation is to aid in the design of foundations for the proposed high mast lighting at the dual purposed baseball & football field, and two tennis courts. We understand that the height of these lighting structures varies between 60 feet and 80 feet. We also understand that James Park is a former landfill and some or all the proposed lighting structures lie within the limits of the former landfill.

Scope of Work

The scope of work included drilling a total of four (4) soil borings. The boreholes were extended to the depth of weathered bedrock which was noted between 71 feet and 73.5 feet. The location of the borings is presented in Boring Location Plan in Appendix A.

Field Work

The borings were marked in the field by INTERRA with the guidance of the client. The drilling sub-contractor Geocon Professional Services obtained underground utility clearance prior to drilling. Drilling was performed on 6/11/2021 and 6/14/21 using a track mounted D-50 drill rig. Soil sampling in the boreholes was performed in accordance with ASTM D1586 "Standard Penetration Test and Split Barrel

Sampling of Soils". A RIMAC tester was used to determine the unconfined compressive strength of the cohesive soil samples.

Observation for ground water was made during and immediately after the completion of drilling and the information was recorded on the borehole logs. In addition to groundwater information, blow-count data and soil description are also recorded on the field borehole logs. Soil samples obtained from the drilling operations were sealed immediately in the field and returned to our Bolingbrook, Illinois laboratory for further examination and testing. Upon completion of drilling, the boreholes were backfilled immediately with the soil auger cuttings and bentonite.

Laboratory Work

The laboratory work for this project consisted of performing moisture content tests on all the soil samples recovered from the boreholes. In conjunction with the laboratory testing, all the soil samples were examined and visually classified. All soil samples will be retained in our Bolingbrook, Illinois laboratory for a period of 60 days, after which they will be discarded unless other instructions as to their disposal are received. Laboratory test reports are enclosed.

Subsurface Soil Conditions

Baseball/Football Field

Boring SB-01 is located near the northwest corner of the baseball/football field. This boring encountered 0.5 feet of TOPSOIL underlain by FILL materials to a depth of 5.5 feet. The fill materials consisted of loose black and brown sandy loam with pieces of concrete and brick to a depth of 3.0 feet and loose black silt with pieces of brick to 5.5 feet. The fill materials are underlain by loose brown, gray and black SILT with trace organics to a depth of 8.0 feet. Very stiff to medium stiff gray and yellowish-brown CLAY was observed to a depth of 13.0 feet. Very loose to loose bluish gray and gay SILT was noted between 13.0 to 32.0 feet. Medium stiff to soft gray CLAY was identified up to 47.0 feet. This was followed by medium dense gray and greenish gray SANDY LOAM to a depth of 52.0 feet. Hard gray CLAY extended to a final depth of 73.0 feet. The boring was terminated on the weathered bedrock at 73.0 feet.

Boring SB-04 was drilled at the southern edge of the ball field. This boring encountered 0.42 feet of TOPSOIL at the surface, underlain by very loose to medium dense FILL materials up to a depth of 59 feet.

The fill materials consisted of silty loam, silt and sands with brick, concrete, wood and pieces of glass. The fill material is underlain by stiff to very stiff CLAY to a depth of 67 feet. This is followed by very dense SILT to a depth of 71 feet. The boring was terminated in weathered bedrock at a depth of 71 feet.

Tennis Courts

Boring SB-02 was drilled at the northwest corner of the tennis courts to a depth of 73.5 feet. TOPSOIL was encountered to 0.5 feet from the ground surface, and underlain by FILL materials up to a depth of 10.5 feet. The fill material consisted of medium dense brown silt fill with pieces of brick to 3.0 feet and very loose to medium dense brown and reddish-brown sand fill with pieces of brick and concrete to 10.5 feet. Between the depths of 10.5 feet and 47 feet, stiff to medium stiff CLAYEY soils were noted. This is followed by hard CLAY LOAM and CLAY to a depth of 63 feet. This is underlain by very dense SAND to a depth of 73.5 feet. The boring was terminated in weathered bedrock at a depth of 73.5 feet.

Boring SB-03 was drilled in the southeast corner of the tennis courts. This boring encountered 0.5 feet of TOPSOIL at the surface, underlain by very loose to loose FILL materials up to a depth of 18.0 feet. The fill materials consisted of silty loam, sandy loam and sands with brick, wood and pieces of glass. The fill material is underlain by loose SILT to a depth of 20.5 feet, followed by medium stiff to very stiff CLAY to a depth of 57 feet. This is followed by very dense SILT to a depth of 67 feet and very dense SANDY LOAM to a depth of 71 feet. The boring was terminated in weathered bedrock at a depth of 71 feet.

Please see individual boring logs in Appendix A for detailed soil stratification.

Ground Water Information

Observations for ground water were made during and immediately after the completion of drilling. Groundwater was noted between depths of 8.5 to 11.0 feet from the surface in the fill material at borings SB-02, SB-03 and SB-04. No groundwater was encountered at boring SB-01 but high moisture content was noted in soil samples from 3.5 feet to 7.5 feet and 11.0 to 12.5 feet. Since the water levels were measured in a relatively short period of time, the measured water levels may not represent true groundwater conditions. Fluctuations in water levels should be expected due to seasonal variations, precipitation and surface run-off.

Conclusions & Recommendations

Borings SB-01, SB-02 and SB-03 SB-04 all appear to be in or very closed to the former landfill. The Musco Lighting Request for Soil Report (Appendix B) lists the required soil investigation information for the design of foundations for embedment. According to this, the foundation element primarily acts as a laterally loaded pile. Their standard foundation consists of a round precast, prestressed concrete bottom pole section that is placed in the center of a 30" (minimum) diameter pier excavation and stabilized with concrete backfill in the annular area.

The subsurface materials consist of materials disposed of in the landfill in a very loose state and mostly with high moisture content. If Musco's standard foundation system were to be used, the subsurface materials are not suitable initially to develop good lateral resistance and at later times this resistance might further reduce due to the long-term decomposition of the subsurface materials. Since the mast lighting poles exert considerable lateral forces on the foundation elements and foundation soils, it is important that the long-term performance of foundation system is considered in its selection. Secondly, excavation required for the standard foundation system consisting of a pole would produce contaminated spoils that would need to be disposed of in a special waste landfill increasing the cost of the project.

For the above reasons, Musco's standard foundation system may not be suitable. We recommend a deep foundation system consisting of H-piles or metal shell piles driven into the very stiff to hard silty clay layer. The depth of embedment will depend on the lateral capacity required. We recommend that the lateral capacity and deflections be evaluated using software such as LPILE or COM624. To limit deflections and bending moments in the piles, lateral resistance of pile caps can be considered. The potential corrosive conditions in the landfill soils should be taken into consideration in selecting the pile sizes.

Report Limitations

The analysis submitted in this report is based upon the data obtained from the soil borehole performed at the location indicated on the location diagram and from any other information discussed in this report. In performing subsurface explorations, specific information is obtained at specific locations at specific times. It is a well-known fact that variations in soil and rock conditions exist on most sites between borehole locations. Also, groundwater levels vary from time to time. The nature and extent of

variations may not become evident until the course of construction. If variations then appear evident, it will be necessary for a re-evaluation of the recommendations of this report after performing on-site observations and noting the characteristics of any variations.

We appreciate the opportunity to be of service to you. If you have any questions regarding this report or if you need further clarifications please do not hesitate to call us at our office.

Very truly yours,

Interra, Inc.



Ashok Guntaka, EI
Project Manager



Sanjeev Bandi, Ph.D., PE
Principal Engineer

Appendix A
Soil Boring Location Plan
Soil Boring Logs

EQUIPMENT LAYOUT

INCLUDES:

- Baseball
- Football
- Tennis 1-3
- Tennis 4-6

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
1	A1	60'	-	60'	TLC-LED-1200	2
				60'	TLC-LED-900	1
				15.5'	TLC-BT-575	1
				60'	TLC-LED-1500	1
1	A2	60'	-	60'	TLC-LED-1200	2
				60'	TLC-LED-900	1
				15.5'	TLC-BT-575	1
				60'	TLC-LED-1500	1
2	B1-B2	80'	-	15.5'	TLC-BT-575	1
				80'	TLC-LED-1500	6
2	C1, D1	70'	-	15.5'	TLC-BT-575	1
				70'	TLC-LED-1500	6
1	C2	80'	-	15.5'	TLC-BT-575	1
				80'	TLC-LED-1500	6
1	D2	80'	-	15.5'	TLC-BT-575	1
				80'	TLC-LED-1500	7
4	T1-T2 T5-T6	60'	-	60'	TLC-LED-600	2
				60'	TLC-LED-400	1
2	T3-T4	60'	-	60'	TLC-LED-600	6
14	TOTALS					77

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-LED-600	3.4	3.2	3.0	2.6	2.0	1.9	1.5
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3	1.0
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3

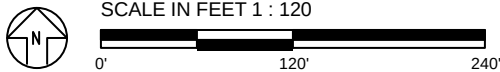
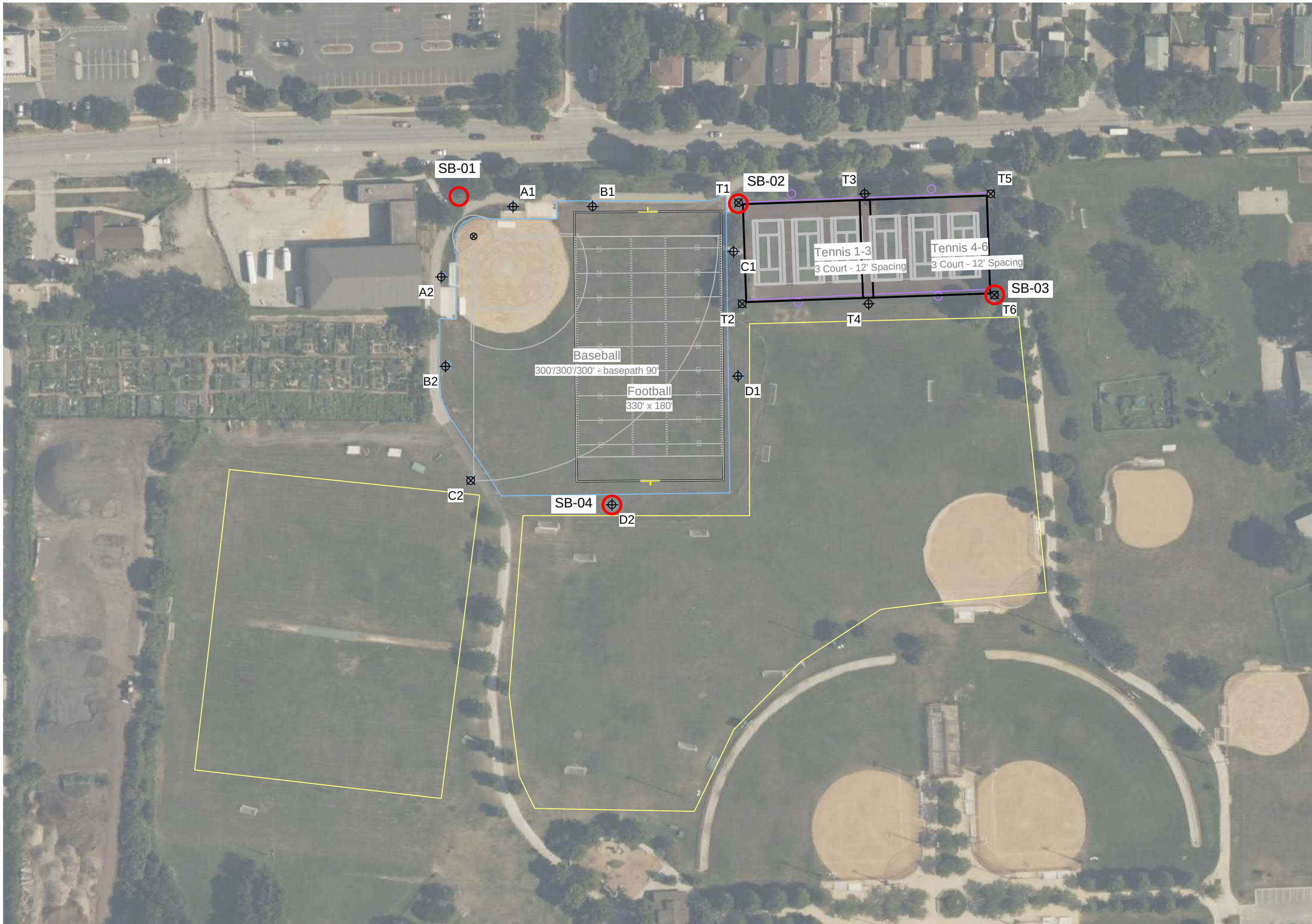
Soil Boring

Soil Boring Location Map
James Park Athletic Lighting
INTERRA Project No. 8916
Date: 06/31/21



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EQUIPMENT LAYOUT



ENGINEERED DESIGN By: · File #141525E · 16-Apr-21

SOIL BORING LOCATION PLAN

Pole location(s) ⦿ dimensions are relative to 0,0 reference point(s) ⊗



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Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 6/14/21

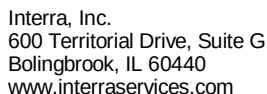
ROUTE _____ DESCRIPTION James Park Athletic Fields Lighting, Evanston, Illinois LOGGED BY Abdu Sellah

SECTION _____ LOCATION Northwest corner of the Baseball/Football Field. See Boring Location Plan.

COUNTY Cook County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____ Station _____	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft Groundwater Elev.: First Encounter _____ Dry ft Upon Completion _____ Dry ft After _____ Hrs. _____ ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
TOPSOIL -0.50					Very Loose to Loose, blueish gray and gray SILT, trace clay, Massive, Moist				
Loose, black and brown SANDY LOAM FILL, medium to fine, little fine gravel, brick and concrete fragments, MOIST.		5		21.0			4		20.8
		3					3		
		3					3		
-3.00					Color change to gray at 18.0 feet. (continued)				
Loose, black SILT FILL, coarse to fine, little gravel, little brick fragments, trace organics, Moist		3		28.6			1		
		2					1		20.2
		3					2		
-5.50									
Loose, brown, gray and black SILT, trace fine sand, trace organics, Moist		3		27.2			1		
		2					1		25.7
		3					2		
-8.00									
Very Stiff to Medium Stiff, gray and yellowish brown CLAY, trace medium to fine sand, trace silt, Moist		2		24.5			1		
		3					2		24.3
		5	2.4 B				2		
Color change to gray at 10.5 feet		4							
		3		32.5					
		4	0.7 B						
-13.00					Medium Stiff to Soft, gray CLAY, trace fine sand, Moist				
Very Loose to Loose, blueish gray and gray SILT, trace clay, Massive, Moist		1		27.1			2		
		1					3		19.3
		1					3	0.7 B	
Color change to gray at 18.0 feet.									
		1							
		1		17.7					
		2							
		12					3		
		4		20.1			3		18.4
		2					4	0.5	
-20									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)



Date 6/14/21

ROUTE	DESCRIPTION	LOGGED BY
	Illinois	Abdu Sellah

SECTION _____ **LOCATION** Northwest corner of the Baseball/Football Field. See Boring Location Plan.

COUNTY	Cook County	DRILLING METHOD	Hollow Stem Auger	HAMMER TYPE	Automatic

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)



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www.interraservices.com

SOIL BORING LOG

Date 6/14/21

ROUTE _____ DESCRIPTION James Park Athletic Fields Lighting, Evanston, Illinois LOGGED BY Abdu Sellah

SECTION _____ LOCATION Northwest corner of the Tennis Courts. See Boring Location Plan.

COUNTY Cook County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____ Station _____	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft Groundwater Elev.: First Encounter <u>-18.0 ft</u> ▼ Upon Completion <u>Dry ft</u> After _____ Hrs. _____ ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
TOPSOIL -0.50					Medium Stiff, greenish gray SILTY CLAY, trace fine sand, Wet (continued)			B	
Medium Dense, brown SILTY LOAM FILL, some fine gravel, pieces of brick, Moist		5		15.4			1		27.1
		6					1	0.7	
		7					2	B	
Very Loose to Medium Dense, brown and reddish brown SAND FILL, medium to fine, trace fine gravel, brick and concrete fragments, Moist -3.00		5		22.3			1		21.6
		2					1	0.5	
		1					1	B	
Saturated at 8.5 feet		2		23.0			1		23.4
		6					1	0.6	
		4					2	B	
		1					2		
		1		38.4			2		24.2
		1					1	0.7	
Stiff, gray and brown CLAY, trace fine gravel, Moist -10.50		2		24.4				B	
		2							
		2	1.5						
		1					2		
		2		26.8			2		21.5
		4	1.6				4	0.9	
			B					B	
Medium Stiff, greenish gray SILTY CLAY, trace fine sand, Wet -15.50		1		26.8					
		2							
		2	0.9						
			B						
		1					2		
		1		21.3			3		19.9
		2	0.7				3	0.9	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)



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SOIL BORING LOG

Date 6/14/21

ROUTE _____ DESCRIPTION James Park Athletic Fields Lighting, Evanston, Illinois LOGGED BY Abdu Sellah

SECTION _____ LOCATION Northwest corner of the Tennis Courts. See Boring Location Plan.

COUNTY Cook County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____ Station _____	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft Groundwater Elev.: First Encounter _____ -18.0 ft ▼ Upon Completion _____ Dry ft After _____ Hrs. _____ ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
Medium Stiff to Stiff, gray CLAY, trace fine sand, Moist (continued)			B		Very Stiff to hard, gray and greenish gray CLAY LOAM, trace large to fine gravel, Moist Scattered cobbles encountered based on drilling 57.0-63.0 feet (continued)			B	
		2					8		
		3		19.4			11		20.7
	-45	6	1.8		Scattered cobbles encountered based on drilling 63.0-67.0 feet	-65	29	4.4	
			B					B	
	-47.00					-67.00			
Very Stiff to hard, gray and greenish gray CLAY LOAM, trace large to fine gravel, Moist Scattered cobbles encountered based on drilling 57.0-63.0 feet		7			Very Dense, gray SAND, course to fine, Moist		20		
		5		11.4			44		10.7
	-50	6	3.6			-70	50/4"		
			B						
		7			WEATHERED BEDROCK (DOLOMITE), pieces of bedrock	-73.50	50/0.5"		
		8		11.1	End of Boring @ 73.5 feet. Backfill boring with soil cuttings and bentonite chips.				
	-55	13	4.4			-75			
			B						
		14							
		18		11.1					
	-60	25	6.8			-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)



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SOIL BORING LOG

Date 6/11/21

ROUTE _____ DESCRIPTION James Park Athletic Fields Lighting, Evanston, Illinois LOGGED BY Abdu Sellah

SECTION _____ LOCATION Southeast corner of the Tennis Courts. See Boring Location Plan.

COUNTY Cook County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____
Station _____

BORING NO. SB-03
Station _____
Offset _____

Ground Surface Elev. 0.00 ft

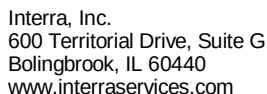
D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter -8.5 ft ▼
Upon Completion -12.5 ft ▼
After _____ Hrs. _____ ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)

TOPSOIL	-0.50					-20.50			
Loose to Very Loose, brown SILTY LOAM FILL, little brick and glass fragments, Dry		6		11.9		Medium Stiff to Very Stiff, gray, redish gray and greenish gray CLAY, trace fine sand, Moist	2		26.0
		4					2		
		3				Color change to gray at 23.0 feet	2	1.5 B	
		1					2		
		1		11.8			2		22.7
		-5	1				-25	3	1.4 B
		3					2		
		1		28.0			2		23.9
		2					2	1.8 P	
Very Loose, black SANDY LOAM FILL, course to fine , trace brick, wood, and glass fragments, Saturated	-8.00	3					2		
		1		38.6			2		20.2
		-10	1				-30	2	0.9 B
		2							
		1		54.2					
		1							
Very Loose to Loose, black SAND FILL, medium to fine, little brick, wood, and concrete fragments, Saturated	-13.00	4					4		
		3		29.3			6		19.5
		-15	1				-35	4	1.4 B
		3							
		3		43.1					
		3							
Loose, greenish gray SILT, trace sand, trace organics, Massive, Wet	-18.00	1					3		
		2		33.0			4		20.4
		-20	5				-40	3	0.9

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)



Date 6/11/21

ROUTE	DESCRIPTION	Illinois	LOGGED BY
			Abdu Sellah

COUNTY	Cook County	DRILLING METHOD	Hollow Stem Auger	HAMMER TYPE	Automatic

[illegible]

BBS, from 137 (Rev. 8-99)



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SOIL BORING LOG

Date 6/11/21

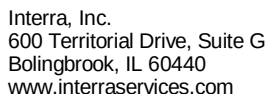
ROUTE _____ DESCRIPTION James Park Athletic Fields Lighting, Evanston, Illinois LOGGED BY Abdu Sellah

SECTION _____ LOCATION Southern edge of Baseball/Football Field. See Boring Location Plan.

COUNTY Cook County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____ Station _____	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft Groundwater Elev.: First Encounter _____ -11.0 ft ▼ Upon Completion _____ -11.0 ft ▼ After _____ Hrs. _____ ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
TOPSOIL -0.42					Medium Dense to Very Loose, black SILTY LOAM FILL, little large to fine gravel, Saturated at 11.0 feet		2		
Very Stiff, black SILTY CLAY FILL, trace fine gravel, little brick and concrete fragments, Moist	6			13.5	trace roots, wood, brick, concrete, glass and slag fragments below 13.5 feet (continued)	2		80.1	
	7					1			
	8	2.4							
		B							
Very Loose, black SILTY LOAM FILL, little medium to fine sand, little brick, glass and concrete fragments, Moist -3.00	5			18.0		3		107.1	
	2					2			
	-5	2				-25	4		
Medium Dense to Loose, black SILT FILL, little fine sand, Moist -5.50									
	10					3			
	10			20.1		2		48.9	
	6					4			
	5					5			
	4			18.3		2		52.2	
	-10	3				-30	2		
Medium Dense to Very Loose, black SILTY LOAM FILL, little large to fine gravel, Saturated at 11.0 feet -10.50									
	4			30.9					
	4								
	8								
trace roots, wood, brick, concrete, glass and slag fragments below 13.5 feet									
	3					4			
	1			26.5		2		42.7	
	-15	1				-35	2		
	7								
	4			35.2					
	4								
	3					3			
	2			58.5		2		76.3	
	-20	1				-40	2		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)



Date 6/11/21

ROUTE	DESCRIPTION	LOGGED BY
	Illinois	Abdu Sellah

COUNTY	Cook County	DRILLING METHOD	Hollow Stem Auger	HAMMER TYPE	Automatic

[illegible]

BBS, from 137 (Rev. 8-99)

Soil Properties for James Park Athletic Field Lighting Foundation Design

City of Evanston, IL

Boring No.	Depth (ft)	Soil Type	Total Unit Weight (pcf)	Undrained Shear Strength(psf)	Unit skin friction (psf)	Soil Modulus, k (pci)	Angle of Internal Friction (deg)	Epsilon 50 Strain
SB-01	7-40	Fill material	90	-	-	-	15	-
	40-50	Medium Stiff clay	115	1000	750	50	-	0.01
	50-65	Hard Clay	125	4000	2000	1000	-	0.004
SB-02	7-15	Fill Material	90	-	-	-	15	-
	15-50	Medium Stiff Clay	115	1000	750	50	-	0.01
	50-65	Hard Clay	125	4000	2000	1000	1000	0.004
SB-03	7-25	Fill Material	90	-	-	-	15	-
	25-50	Stiff clay	120	1500	750	250	250	0.007
	50-70	Very Stiff Clay	120	3000	1500	500	-	0.005
SB-04	7-60	Fill Material	90	-	-	-	15	-
	60-70	Very Stiff Clay	120	3000	1500	500	-	0.005

Notes:

- 1.Estimated Ground Water Table elevation: 10' below ground surface
2. End bearing resistance is not considered as the driven pipe piles will be open ended and the lateral capacity and deflection are significant elements of consideration than the axial capacity.
3. These values are applicable only at the borehole locations and are subject to variation based on both depth and location as the area is a former landfill.

Appendix B

MUSCO Lighting Soil Information Request



Soil Report Information Required for Light Pole Foundation Design

These tests are being requested to provide information for the purpose of designing foundations for embedment of a laterally loaded pile to be used to support mono-pole type structures with lighting fixtures mounted at the top. The Musco standard foundation consists of a round precast, pre-stressed concrete bottom pole section centered in a 30" (minimum) diameter pier excavation, plumbed, and stabilized with concrete backfill in the annular space. These foundations will be designed using the depth of embedment formula (nonconstrained) per Chapter 18 of the International Building Code.

Please provide the following soil investigation information:

- List the boring number, location and elevation.
- Soil description and classification
- N-Value (Blow Count)
- Ground Water Conditions - depth to ground water table if applicable
- For cohesive soils:
 - Consistency
 - C, cohesion, or Qu, unconfined compressive strength
- For cohesionless soils:
 - Relative density
 - ϕ (phi), internal angle of friction, degrees
 - Kp, passive lateral pressure coefficient
 - γ , soil unit weight and (γ sat) buoyant unit weights if applicable.

During the test if there are conditions or circumstances found which would indicate that different or additional tests would be appropriate or needed, the persons conducting the tests are requested to provide such additional tests and test information for the purpose of the foundation design requirements.

Specifically, if rock is encountered, a test should be conducted to provide the designers with information as to the nature of the rock.

Structural Engineers, P.C.

Kyle Lacina, PE, SE
114 Nicholas Drive
Marshalltown, Iowa 50158

SEPC Tele No: (641)752-6334

E-Mail: Kyle Lacina – Kyle.Lacina@SEPC.biz
Rob Gray – Rob.Gray@SEPC.biz



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1350 TriState Parkway, Unit 122, Gurnee, IL 60031-9135
847.249.6040 • Fax 844.767.4721

2235 23RD Avenue, Rockford, IL 61104-7334
815.394.2562 • Fax 815.394.2566

203 Earl Road, Suite A, Shorewood, IL 60404-9446
815.744.1510 • Fax 815.744.1728

Geotechnical & Environmental Engineering



Construction Materials Engineering & Testing



Laboratory Testing of Soils, Concrete & Asphalt



Geo-Environmental Drilling & Sampling

Report of Soils Exploration

Light Pole Foundations

James Park

Evanston, Illinois

City of Evanston - Public Works Agency

GEOTECHNICAL GROUP




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360 S. Main Place, Carol Stream, IL 60188-2404
630.462.2600 • Fax 630.653.2988

April 12, 2023

Ms. Stefanie Levine, PLA
Public Works Agency
Lorraine H. Morton Civic Center
City of Evanston
2100 Ridge Avenue
Evanston, IL 60201

Re: L-95,300
Light Pole Foundations
James Park
Evanston, Illinois

Dear Ms. Levine:

This report presents results of a soils exploration performed in connection with proposed light poles at the James Park in Evanston, Illinois. These geotechnical engineering services have been provided in accordance with an Agreement between the City of Evanston and Testing Service Corporation approved on 02/23/2023, which incorporates TSC Proposal No. 70,230.

James Park is located at Dodge Avenue and Oakton Street, near the south end of the City of Evanston. It lies over a former municipal landfill. The proposed project consists of a total of fourteen (14) light poles to be installed at one of the park's soccer/baseball fields and adjacent tennis courts located in the northern portion of the park. Several of the proposed light pole locations lie within the limits of the former landfill.

Four (4) soil borings were previously drilled at or near proposed light poles by INTERRA under Project No. 8916 with report dated 7/26/2021. They encountered up to about 60 feet of miscellaneous fill materials related to the former landfill, being extended to the apparent top of bedrock at about 71 to 74 feet below existing grade. Our geotechnical exploration consisted of ten (10) soil borings, located at the proposed pole locations not included in the INTERRA subsurface exploration. The intent of our geotechnical exploration was to provide separate foundation recommendations for each of the ten (10) light poles covered by our study.

The Musco Lighting sport system is planned for this project which consists of pole mounted assemblies ranging in height between 60' and 80'. The Musco standard foundation consists of a round precast, pre-stressed concrete bottom pole section centered in the upper portion of a 30" (minimum) diameter steel pipe pile, plumbed, and stabilized with concrete backfill in the annular space. Based on a design plan provided to TSC (prepared by Musco's Structural Engineer, dated 8/31/2021), the precast base embedment will be in the range of 10'-0" to 16'-0", with the proposed 30" O.D. steel pipe piles having a wall thickness of $\frac{5}{8}$ ". The open-ended pipe piles are to be driven to depths to basically provide adequate lateral load resistance as the axial loading is minimal. In this regard, they are to be subjected to small vertical (compression) loads of up to about 3.4 kips, with moments at the top of the piles of up to about 106,100 ft-lbs ($\pm 1,273,000$ in-lbs).



Field Investigation and Laboratory Testing

Borings 101 - 110 were performed by TSC as part of this geotechnical exploration at ten (10) of the proposed light pole locations, i.e. those not included in the INTERRA subsurface exploration. Reference is made to the Boring Location Plan in the Appendix for the drilling layout, ground surface elevations at the borings also being shown. The elevations were acquired by TSC using a Trimble R8s GNSS Receiver which uses the North American Vertical Datum of 1988 (NAVD88). They were converted from NAVD88 to ECD (Evanston City Datum) and rounded to the nearest 0.5 foot. For reference, the locations of the INTERRA borings are also shown on this plan.

Borings 101 - 110 were extended to depths ranging from 30 to 70 feet below existing grade, penetrating at least 12 feet below the landfill material. They were drilled and samples tested in accordance with currently recommended American Society for Testing and Materials specifications. Soil sampling was performed at 2½-foot intervals to depths of 15 to 25 feet and at 5-foot intervals thereafter. The samples were taken in conjunction with the Standard Penetration Test (SPT), for which driving resistance to a 2" split-spoon sampler (N-value in blows per foot) provides an indication of the relative density of granular materials and consistency of cohesive soils. Water level readings were taken during and following completion of drilling operations, with the boreholes then immediately backfilled for safety reasons.

Soil samples were examined in the laboratory to verify field descriptions and to classify them in accordance with the Unified Soil Classification System. Laboratory testing included water content determinations for all cohesive and intermediate (silt or loamy) soil types. An estimate of unconfined compressive strength was obtained for all cohesive soils using a calibrated pocket penetrometer (Q_p), with actual measurements of unconfined compressive strength (Q_u) performed on representative samples of native clay soils. Dry unit weight tests were also run on specimens of cohesive fill.

Reference is made to the boring logs included with this report indicating subsurface stratigraphy and soil descriptions, results of field and laboratory tests, as well as water level observations. Definitions of descriptive terminology are also included. While strata changes are shown as a definite line on the boring logs, the actual transition between soil layers is likely to be more gradual. Fluctuations in the groundwater table may also occur due to variations in precipitation (short-term and seasonal) as well as rises or drops in pond, lake, creek or other nearby surface water features, i.e. water levels at a future date may be higher or lower than those recorded at the time of drilling.

Discussion of Test Data

Fill materials were encountered at the surface of the borings. They extended to as shallow as approximately 3 feet below existing grade in Borings 101, 103 and 105 and 9 feet deep in B-102. These borings appear to have been drilled outside the limits or at the edge of the former landfill. Existing fill and landfill debris otherwise extended approximately 28 to 33 feet below existing grade in Borings 104 and 106 - 109 and up to about 58 feet deep in B-110. The bottom of this zone (landfill debris) correlates to elevations in the range of about -11 to -17 ECD at Borings 104 and 106 - 109, and to an elevation on the order of -38 ECD in B-110.



Topsoil fill (respread) was approximate 6 to 14 inches thick at the majority of the borings, being up to about 2.5 feet deep at B-107. The fill materials in Borings 101 -103 and 105 which extended to 3 to 9 feet deep consisted of relatively clean urban fill materials primarily composed of crushed stone and sand/silty sand and gravel with variable amounts of cinders and crushed brick. They exhibited SPT N-values ranging from 4 to 20 blows per foot (bpf), indicative of a loose to medium dense condition. Silty clay fill with variable amounts of topsoil/organic matter was encountered in the upper approximate 3 to 8 feet of Borings 104 and 108 - 110. Samples of the cohesive fill exhibited variable water content, pocket penetrometer and dry unit weight values ranging from 12 to 35 percent, 1.5 to 4.5+ tons per square foot (tsf) and 80 to 125 pounds per cubic foot (pcf), respectively.

Construction type debris and/or refuse fill materials were encountered at Borings 104 and 106 - 110. They were first met at depths of about 3 to 8 feet below existing grade. They extended approximately 28 to 33 feet below existing grade in Borings 104 and 106 - 109 and to as deep as about 58 feet in B-110. The construction debris and/or refuse included mixtures or combinations of sand, gravel, wood, cinders and brick pieces as well as inclusions of slag, plastic, wire, metal, paper and glass fragments. Concrete rubble was not encountered by the borings. Samples of the construction debris and/or refuse fill materials had water contents usually ranging from about 20 to 66 percent, being as high as about 90 percent in Boring 110. They also exhibited SPT N-values typically in the range of 1 to 9 bpf, indicative of a very loose to loose condition.

The uppermost native soils underlying the fill materials in Borings 101, 103 and 105 and extending to a depth of approximately 8 feet below existing grade consisted of strata of soft to stiff silty/very silty clay and loose silty fine sand and clayey silt. A loose native clayey silt deposit was also found underlying the fill materials in B-102, extending to a depth of about 13 feet. Samples of the cohesive soils exhibited pocket penetrometer readings (estimates of unconfined compressive strength) of 0.5 to 1.0 tsf at water contents of 26 to 27 percent. The clayey silt and silty sand deposits had SPT N-values of 4 to 6 bpf. Stiff to very stiff silty clay soils were encountered underlying the loose clayey silt and silty sand deposits in Borings 101, 103 and 105, extending to a depth of approximately 13 feet. They exhibited unconfined compressive strengths/pocket penetrometer readings ranging from 1.75 to 3.5 tsf at water contents varying from 22 to 28 percent.

Relatively soft and very moist silty clay soils were encountered underlying the stiff to very stiff native silty clay materials in Borings 101, 103 and 105 and loose clayey silt deposit in B-104, extending to a depth of about 27 feet in B-101 and to the bottom of Borings 103 - 105 at 30 feet deep. Approximately 5-foot thick layers of medium stiff and very moist clay were also found underlying stiffer native clay soils and directly below the fill materials at a depth of roughly 33 feet in Borings 106 and 107, respectively. Medium stiff to stiff and very moist silty clay soils were also encountered directly below the fill materials in B-109, extending to a depth of about 52 feet. These cohesive soils exhibited unconfined compressive strengths/pocket penetrometer readings of about 0.3 to 1.0 tsf at variable water contents between 18 and 43 percent (typically between 21 and 29 percent).

Approximate 5-foot thick deposits of medium dense silt and clayey sand were encountered at depths of about 27 and 39 feet in Borings 101 and 104, respectively. These intermediate soil types exhibited SPT N-values of 16 to 19 bpf. Native soils underlying the fill materials and relatively soft clays in Borings 101, 104 and 106 - 108 and extending to the bottom of them at 35 to 50 feet otherwise consisted of stiff to

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very stiff silty/very silty clays. These low to medium plasticity native cohesive soils exhibited unconfined compressive strengths/pocket penetrometer readings ranging from 1.0 to 2.0 tsf at water contents varying from 11 to 22 percent.

The medium stiff to stiff and very moist native clay soils that were encountered underlying the existing fill materials in Boring 109 were in turn underlain by very stiff to hard silty clay soils which extended to the bottom of the borehole at 65 feet. These deeper native cohesive soils exhibited pocket penetrometer readings ranging from 3.25 to 4.5+ tsf at water contents of 10 to 13 percent. The fill materials were directly underlain by hard silty/sandy clay soils in B-110, extending to the boring completion depth of 70 feet. These "hardpan" type materials exhibited unconfined compressive strengths/pocket penetrometer readings of 4.5+ tsf at water contents of 10 to 11 percent.

Free water was first encountered while drilling and sampling in Borings 102 and 104 - 110 at depths ranging from 3 to 8 feet below existing grade, with Borings 101 and 103 noted in a dry condition (no free groundwater observed). Upon completion of drilling and sampling operations, free water was noted at depths of 21 and 23 feet below existing grade in Borings 101 and 103, respectively, with Boring 102 observed in a caved condition at a depth of 6 feet. The water levels in Borings 104 - 110 were typically within 2 feet of initial levels. The only exception was B-110 where the water level had dropped by 7 feet upon completion of field operations.

Analysis and Recommendations

Our geotechnical study consisted of ten (10) soil borings (Nos. 101 - 110) at the proposed light pole locations not covered by the previous INTERRA subsurface exploration. The intent of our geotechnical exploration was to provide separate foundation recommendations for each of the ten (10) light poles covered by our study.

As previously discussed, the Musco Lighting sport system is planned for this project which consists of pole mounted assemblies ranging in height between 60' and 80'. The Musco standard foundation consists of a round precast, pre-stressed concrete bottom pole section centered in the upper portion of a 30" (minimum) diameter steel pipe pile, plumbed, and stabilized with concrete backfill in the annular space. Based on a design plan provided to TSC (prepared by Musco's Structural Engineer, dated 8/31/2021), the precast base embedment will be in the range of 10'-0" to 16'-0" and the 30" O.D. steel pipe piles will have a wall thickness of $\frac{5}{8}$ ". The open-ended pipe piles are to be driven to depths to basically provide adequate lateral load resistance as the axial loading is minimal.

The following table summarizes the pole designation and foundation forces at the top of the pipe pile as provided by Musco's Structural Engineer:

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BORING NUMBER	POLE DESIGNATION	FORCES		
		MOMENT (FT-LBS)	SHEAR (LBS)	VERTICAL (LBS)
101	B1	99,382	1,973	3,268
102	T3	42,756	1,081	1,526
103	T5	30,077	828	924
104	C1	78,434	1,658	2,333
105	A2	38,615	990	1,333
106	T2	30,077	828	924
107	T4	42,756	1,081	1,526
108	B2	99,382	1,973	3,268
109	D1	78,434	1,658	2,333
110	C2	99,382	1,973	3,268

Light Pole Foundation at Boring 101

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-101. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 8.0	Fill Materials/ Silty Sand/Silt	Sand (Reese)	125	--	30
8.0 - 13.0	Stiff-Very Stiff Silty Clay	Stiff Clay w/o Free Water	130	2000	--
13.0 - 18.0	Soft Silty Clay	Soft Clay (Matlock)	50	300	--
18.0 - 23.0	Soft-Med. Stiff Silty Clay	Soft Clay (Matlock)	65	500	--

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Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
23.0 - 27.0	Soft-Med. Stiff Silty Clay	Soft Clay (Matlock)	50	500	
27.0 - 32.0	Med. Dense Silt	Sand (Reese)	68	--	34
32.0 - 35.0	Stiff Silty Clay	Stiff Clay w/o Free Water	68	1250	--

* Total and buoyant unit weight above and below the groundwater level, respectively.

Based on the soil stratigraphy and parameters shown on the above table and the foundation forces and moment at the top of the pile, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 35 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

Light Pole Foundation at Boring 102

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-102. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 8.0	Fill Materials	Sand (Reese)	120	--	30
8.0 - 13.0	Loose Clayey Silt	Sand (Reese)	63	--	30
13.0 - 15.5	Soft Silty Clay	Soft Clay (Matlock)	50	300	--
15.5 - 35.0	Soft Silty Clay	Soft Clay (Matlock)	65	500	--

* Total and buoyant unit weight above and below the groundwater level, respectively.

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Based on the soil stratigraphy and parameters shown on the above table and the foundation forces and moment at the top of the pile, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 35 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

Light Pole Foundation at Boring 103

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-103. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 3.0	Fill Materials	Sand (Reese)	120	--	30
3.0 - 5.5	Med/ Stiff-Stiff Very Silty Clay	Stiff Clay w/o Free Water	125	1000	--
5.5 - 8.0	Loose Clayey Silt	Sand (Reese)	125	--	30
8.0 - 13.0	V. Stiff-Stiff Silty Clay	Stiff Clay w/o Free Water	130/125	2500/1750	--
13.0 - 18.0	Soft Silty Clay	Soft Clay (Matlock)	50	300	
18.0 - 30.0	Soft-Med. Stiff Silty Clay	Soft Clay (Matlock)	68	500	--

* Total and buoyant unit weight above and below the groundwater level, respectively.

Based on the soil stratigraphy and parameters shown on the above table and the foundation forces provided, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 30 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

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Light Pole Foundation at Boring 104

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-104. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 5.5	Fill Materials	Sand (Reese)	120	--	30
5.5 - 33.0	Fill Materials	Sand (Reese)	30	--	10
33.0 - 37.0	Med. Stiff Silty Clay	Soft Clay (Matlock)	63	550	--
37.0 - 39.0	Stiff Silty Clay	Stiff Clay w/o Free Water	70	1000	--
39.0 - 43.0	Med. Dense Clayey Sand	Sand (Reese)	68	--	35
43.0 - 50.0	Stiff Silty Clay	Stiff Clay w/o Free Water	68	1300	--

* Total and buoyant unit weight above and below the groundwater level, respectively.

Based on the soil stratigraphy and parameters shown on the above table and the foundation forces provided, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 50 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

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Light Pole Foundation at Boring 105

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-105. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 3.0	Fill Materials	Sand (Reese)	120	--	30
3.0 - 5.5	Soft Silty Clay	Soft Clay (Matlock)	120	500	--
5.5 - 8.0	Loose Clayey Silt	Sand (Reese)	63	--	30
8.0 - 13.0	V. Stiff Silty Clay	Stiff Clay w/o Free Water	63	2000/3500	--
13.0 - 18.0	Soft Silty Clay	Soft Clay (Matlock)	50	300	--
18.0 - 30.0	Med. Stiff Silty Clay	Soft Clay (Matlock)	63	500	--

* Total and buoyant unit weight above and below the groundwater level, respectively.

Based on the soil stratigraphy and parameters shown on the above table and the foundation forces provided, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 30 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

Light Pole Foundation at Boring 106

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-106. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

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Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 5.5	Fill Materials	Sand (Reese)	120	--	30
5.5 - 28.0	Fill Materials	Sand (Reese)	30	--	10
28.0 - 33.0	V. Stiff Silty Clay	Stiff Clay with Free Water	68	2750	--
33.0 - 38.0	Soft Silty Clay	Soft Clay (Matlock)	68	700	--
38.0 - 45.0	Stiff Silty Clay	Stiff Clay w/o Free Water	70	1500	--

* Total and buoyant unit weight above and below the groundwater level, respectively.

Based on the soil stratigraphy and parameters shown on the above table and the foundation forces provided, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 40 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

Light Pole Foundation at Boring 107

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-107. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 10.5	Fill Materials	Sand (Reese)	58	--	30
10.5 - 33.0	Fill Materials	Sand (Reese)	30	--	10
33.0 - 38.0	Med.Stiff Silty Clay	Stiff Clay with Free Water	63	800	--
38.0 - 50.0	Stiff Silty Clay	Stiff Clay w/o Free Water	63	1000/1500	--

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* Total and buoyant unit weight above and below the groundwater level, respectively.

Based on the soil stratigraphy and parameters shown on the above table and the foundation forces provided, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 50 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

Light Pole Foundation at Boring 108

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-108. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 5.5	Fill Materials	Stiff Clay w/o Free Water	125	2000	--
5.5 - 8.0	Fill Materials	Soft Clay	100	200	--
8.0 - 33.0	Fill Materials	Sand (Reese)	30	--	10
33.0 - 50.0	Stiff Silty Clay	Stiff Clay w/o Free Water	68	1750	--

* Total and buoyant unit weight above and below the groundwater level, respectively.

Based on the soil stratigraphy and parameters shown on the above table and the foundation forces provided, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 50 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

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Light Pole Foundation at Boring 109

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-109. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 5.5	Fill Materials	Stiff Clay w/o Free Water	125	1500	--
5.5 - 8.0	Fill Materials	Stiff Clay w/o Free Water	105	1000	--
8.0 - 33.0	Fill Materials	Sand (Reese)	30	--	10
33.0 - 52.0	Med. Stiff-Stiff Silty Clay	Stiff Clay with Free Water	68	850	--
52.0 - 65.0	V. Stiff-Hard Silty Clay	Stiff Clay w/o Free Water	75	4000	--

* Total and buoyant unit weight above and below the groundwater level, respectively.

Based on the soil stratigraphy and parameters shown on the above table and the foundation forces provided, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 55 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

Light Pole Foundation at Boring 110

The following table summarizes the recommended soil parameters for the evaluation of the lateral resistance for the light pole foundation at B-110. They could be utilized with a computer software such as the LPILE by Ensoft, Inc. which is a commonly used program for the analysis of deep foundations under lateral loading.

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Depth (feet)	Soil Description	Recommended p-y Curve Model	Effective Unit Weight* (pcf)	Cohesion (psf)	Friction Angle (deg)
0.0 - 8.0	Fill Materials	Sand (Reese)	125	--	28
8.0 - 58.0	Fill Materials	Sand (Reese)	30	--	10
58.0 - 70.0	Hard Silty Clay	Stiff Clay with Free Water	75	7000	--

* Total and buoyant unit weight above and below the groundwater level, respectively.

Based on the soil stratigraphy and parameters shown on the above table and the foundation forces provided, our lateral load analysis using the LPILE program indicated a minimum pipe pile embedment depth of 70 feet below existing/finished grade. This is based on a pile fixity (where the pile is fixed without lateral movement under the loads) of at least 10 feet along the bottom portion of the pile as well as to control lateral deflection at the top of it. The design/structural engineer should verify these recommendations and especially the bending moments, shear forces and compression/tension stresses induced along the pile length by performing a lateral load analysis. TSC should be contacted if additional soil parameters are required for these purposes.

Corrosion protection for the steel pipe piles is likely to be required due to potentially high corrosive environment to be provided by the landfill materials. Methods commonly utilized to counter the anticipated effects of corrosion over the design service life of the piles include over dimensioning the cross-sectional area of the steel piles, corrosion protective coatings and cathodic protection.

Closure

The analysis and recommendations submitted in this report are based upon the data obtained from the ten (10) soil borings performed at the locations indicated on the Boring Location Plan. This report does not reflect and variations which may occur between these borings or elsewhere on the site, the nature and extent of which may not become evident until during the course of construction. If variations are then identified, recommendations contained in this report should be re-evaluated after performing on-site observations.

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It has been a pleasure to assist you with this work. Please call if there are any questions or if we may be of further service.

Respectfully submitted,

TESTING SERVICE CORPORATION

A handwritten signature in black ink, appearing to be "AJB", followed by a horizontal line.

Alfredo J. Bermudez
Senior Geotechnical Engineer
Registered Professional Engineer
Illinois No. 062-046608



A handwritten signature in black ink, appearing to be "SRK", followed by a horizontal line.

Steven R. Koester, P.E.
Vice President

AJB:SRK:ab

Enc.

APPENDIX

GENERAL CONDITIONS

UNIFIED CLASSIFICATION CHART

LEGEND FOR BORING LOGS

BORING LOGS

BORING LOCATION PLAN



TESTING SERVICE CORPORATION

GENERAL CONDITIONS

Geotechnical and Construction Services

1. PARTIES AND SCOPE OF WORK: If Client is ordering the services on behalf of another, Client represents and warrants that Client is the duly authorized agent of said party for the purpose of ordering and directing said services, and in such case the term "Client" shall also include the principal for whom the services are being performed. Prices quoted and charged by TSC for its services are predicated on the conditions and the allocations of risks and obligations expressed in these General Conditions. Unless otherwise stated in writing, Client assumes sole responsibility for determining whether the quantity and the nature of the services ordered by Client are adequate and sufficient for Client's intended purpose. Unless otherwise expressly assumed in writing, TSC's services are provided exclusively for client. TSC shall have no duty or obligation other than those duties and obligations expressly set forth in this Agreement. TSC shall have no duty to any third party. Client shall communicate these General Conditions to each and every party to whom the Client transmits any report prepared by TSC. Ordering services from TSC shall constitute acceptance of TSC's proposal and these General Conditions.

2. SCHEDULING OF SERVICES: The services set forth in this Agreement will be accomplished in a timely and workmanlike manner. If TSC is required to delay any part of its services to accommodate the requests or requirements of Client, regulatory agencies, or third parties, or due to any cause beyond its reasonable control, Client agrees to pay such additional charges, if any, as may be applicable.

3. ACCESS TO SITE: TSC shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as a result of its services or the use of its equipment; however, TSC has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires TSC to restore the site to its former condition, TSC will, upon written request, perform such additional work as is necessary to do so and Client agrees to pay to TSC the cost thereof plus TSC's normal markup for overhead and profit.

4. CLIENT'S DUTY TO NOTIFY ENGINEER: Client represents and warrants that Client has advised TSC of any known or suspected hazardous materials, utility lines and underground structures at any site at which TSC is to perform services under this Agreement. Unless otherwise agreed in writing, TSC's responsibility with respect to underground utility locations is to contact the Illinois Joint Utility Locating Information for Excavators for the location of public, but not private, utilities.

5. DISCOVERY OF POLLUTANTS: TSC's services shall not include investigation for hazardous materials as defined by the Resource Conservation Recovery Act, 42 U.S.C. § 6901, et. seq., as amended ("RCRA") or by any state or Federal statute or regulation. In the event that hazardous materials are discovered and identified by TSC, TSC's sole duty shall be to notify Client.

6. MONITORING: If this Agreement includes testing construction materials or observing any aspect of construction of improvements, Client's construction personnel will verify that the pad is properly located and sized to meet Client's projected building loads. Client shall cause all tests and inspections of the site, materials and work to be timely and properly performed in accordance with the plans, specifications, contract documents, and TSC's recommendations. No claims for loss, damage or injury shall be brought against TSC unless all tests and inspections have been so performed and unless TSC's recommendations have been followed.

TSC's services shall not include determining or implementing the means, methods, techniques or procedures of work done by the contractor(s) being monitored or whose work is being tested. TSC's services shall not include the authority to accept or reject work or to in any manner supervise the work of any contractor. TSC's services or failure to

perform same shall not in any way operate or excuse any contractor from the performance of its work in accordance with its contract. "Contractor" as used herein shall include subcontractors, suppliers, architects, engineers and construction managers.

Information obtained from borings, observations and analyses of sample materials shall be reported in formats considered appropriate by TSC unless directed otherwise by Client. Such information is considered evidence, but any inference or conclusion based thereon is, necessarily, an opinion also based on engineering judgment and shall not be construed as a representation of fact. Subsurface conditions may not be uniform throughout an entire site and ground water levels may fluctuate due to climatic and other variations. Construction materials may vary from the samples taken. Unless otherwise agreed in writing, the procedures employed by TSC are not designed to detect intentional concealment or misrepresentation of facts by others.

7. DOCUMENTS AND SAMPLES: Client is granted an exclusive license to use findings and reports prepared and issued by TSC and any sub-consultants pursuant to this Agreement for the purpose set forth in TSC's proposal provided that TSC has received payment in full for its services. TSC and, if applicable, its sub-consultant, retain all copyright and ownership interests in the reports, boring logs, maps, field data, field notes, laboratory test data and similar documents, and the ownership and freedom to use all data generated by it for any purpose. Unless otherwise agreed in writing, test specimens or samples will be disposed immediately upon completion of the test. All drilling samples or specimens will be disposed sixty (60) days after submission of TSC's report.

8. TERMINATION: TSC's obligation to provide services may be terminated by either party upon (7) seven days prior written notice. In the event of termination of TSC's services, TSC shall be compensated by Client for all services performed up to and including the termination date, including reimbursable expenses. The terms and conditions of these General Conditions shall survive the termination of TSC's obligation to provide services.

9. PAYMENT: Client shall be invoiced periodically for services performed. Client agrees to pay each invoice within thirty (30) days of its receipt. Client further agrees to pay interest on all amounts invoiced and not paid or objected to in writing for valid cause within sixty (60) days at the rate of twelve (12%) per annum (or the maximum interest rate permitted by applicable law, whichever is the lesser) until paid and TSC's costs of collection of such accounts, including court costs and reasonable attorney's fees.

10. WARRANTY: TSC's professional services will be performed, its findings obtained and its reports prepared in accordance with these General Conditions and with generally accepted principles and practices. In performing its professional services, TSC will use that degree of care and skill ordinarily exercised under similar circumstances by members of its profession. In performing physical work in pursuit of its professional services, TSC will use that degree of care and skill ordinarily used under similar circumstances. This warranty is in lieu of all other warranties or representations, either express or implied. Statements made in TSC reports are opinions based upon engineering judgment and are not to be construed as representations of fact.

Should TSC or any of its employees be found to have been negligent in performing professional services or to have made and breached any express or implied warranty, representation or contract, Client, all parties claiming through Client and all parties claiming to have in any way relied upon TSC's services or work agree that the maximum aggregate amount of damages for which TSC, its officers, employees and agents shall be liable is limited to \$50,000 or the total amount of the fee paid to TSC for its services performed with respect to the project, whichever amount is greater.

In the event Client is unwilling or unable to limit the damages for which TSC may be liable in accordance with the provisions set forth in the preceding paragraph, upon written request of Client received within five days of Client's acceptance of TSC's proposal together with payment of an additional fee in the amount of 5% of TSC's estimated cost for its services (to be adjusted to 5% of the amount actually billed by TSC for its services on the project at time of completion), the limit on damages shall be increased to \$500,000 or the amount of TSC's fee, whichever is the greater. This charge is not to be construed as being a charge for insurance of any type, but is increased consideration for the exposure to an award of greater damages.

11. INDEMNITY: Subject to the provisions set forth herein, TSC and Client hereby agree to indemnify and hold harmless each other and their respective shareholders, directors, officers, partners, employees, agents, subsidiaries and division (and each of their heirs, successors, and assigns) from any and all claims, demands, liabilities, suits, causes of action, judgments, costs and expenses, including reasonable attorneys' fees, arising, or allegedly arising, from personal injury, including death, property damage, including loss of use thereof, due in any manner to the negligence of either of them or their agents or employees or independent contractors. In the event both TSC and Client are found to be negligent or at fault, then any liability shall be apportioned between them pursuant to their pro rata share of negligence or fault. TSC and Client further agree that their liability to any third party shall, to the extent permitted by law, be several and not joint. The liability of TSC under this provision shall not exceed the policy limits of insurance carried by TSC. Neither TSC nor Client shall be bound under this indemnity agreement to liability determined in a proceeding in which it did not participate represented by its own independent counsel. The indemnities provided hereunder shall not terminate upon the termination or expiration of this Agreement, but may be modified to the extent of any waiver of subrogation agreed to by TSC and paid for by Client.

12. SUBPOENAS: TSC's employees shall not be retained as expert witnesses except by separate, written agreement. Client agrees to pay TSC pursuant to TSC's then current fee schedule for any TSC employee(s) subpoenaed by any party as an occurrence witness as a result of TSC's services.

13. OTHER AGREEMENTS: TSC shall not be bound by any provision or agreement (i) requiring or providing for arbitration of disputes or controversies arising out of this Agreement or its performance, (ii) wherein TSC waives any rights to a mechanics lien or surety bond claim; (iii) that conditions TSC's right to receive payment for its services upon payment to Client by any third party or (iv) that requires TSC to indemnify any party beyond its own negligence. These General Conditions are notice, where required, that TSC shall file a lien whenever necessary to collect past due amounts. This Agreement contains the entire understanding between the parties. Unless expressly accepted by TSC in writing prior to delivery of TSC's services, Client shall not add any conditions or impose conditions which are in conflict with those contained herein, and no such additional or conflicting terms shall be binding upon TSC. The unenforceability or invalidity of any provision or provisions shall not render any other provision or provisions unenforceable or invalid. This Agreement shall be construed and enforced in accordance with the laws of the State of Illinois. In the event of a dispute arising out of or relating to the performance of this Agreement, the breach thereof or TSC's services, the parties agree to try in good faith to settle the dispute by mediation under the Construction Industry Mediation Rules of the American Arbitration Association as a condition precedent to filing any demand for arbitration, or any petition or complaint with any court. Paragraph headings are for convenience only and shall not be construed as limiting the meaning of the provisions contained in these General Conditions.

Testing Service Corporation

Unified Classification Chart

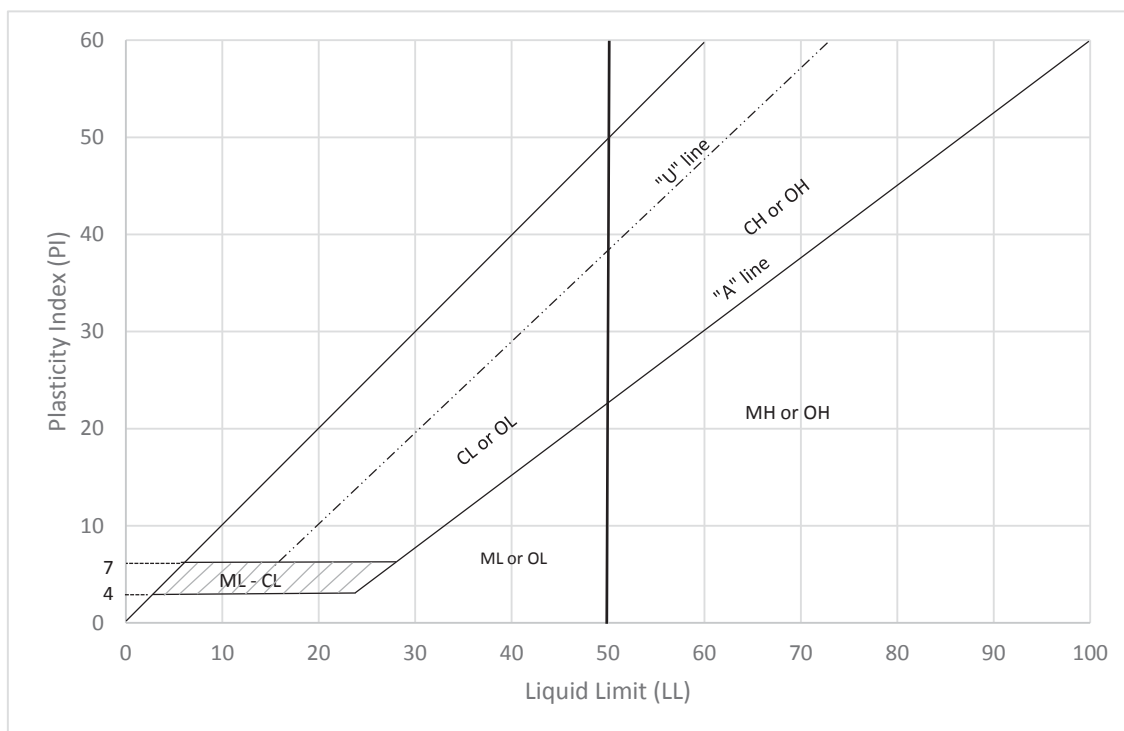


ATTACHMENT 3

CRITERIA FOR ASSIGNING GROUP SYMBOLS AND GROUP NAMES USING LABORATORY TEST ^a				SOIL CLASSIFICATION	
				Group Symbol	GROUP NAME ^b
COARSE - GRAINED SOILS more than 50% retained on No. 200 sieve	GRAVELS More than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS less than 5% fines ^c	$C_u \geq 4$ and $1 \leq C_c \leq 3$ ^e	GW	Well-graded gravel ^f
			$C_u < 4$ and/or $1 > C_c > 3$ ^e	GP	Poorly-graded gravel ^f
		GRAVELS WITH FINES more than 12% fines ^c	Fines classify as ML or MH	GM	Silty gravel ^{f, g, h}
			Fines classify as CL or CH	GC	Clayey gravel ^{f, g, h}
	SANDS 50% or more of coarse fraction passes No. 4 sieve	CLEAN SANDS less than 5% fines ^d	$C_u \geq 6$ and $1 \leq C_c \leq 3$ ^e	SW	Well-graded sand ⁱ
			$C_u < 6$ and/or $1 > C_c > 3$ ^e	SP	Poorly-graded sand ⁱ
		SANDS WITH FINES more than 12% fines ^d	Fines classify as ML or MH	SM	Silty sand ^{g, h, f}
			Fines classify as CL or CH	SC	Clayey sand ^{g, h, f}
FINE - GRAINED SOILS 50% or more passed the No. 200 sieve	SILTS & CLAYS Liquid limit less than 50%	Inorganic	PI > 7 or plots on or above "A" line j	CL	Lean clay ^{k, l, m}
			PI < 4 or plots below "A" line j	ML	Silt ^{k, l, m}
		Organic	$\frac{\text{Liquid limit} - \text{oven dried}}{\text{Liquid limit} - \text{not dried}} < 0.75$	OL	Organic clay ^{k, l, m, n} Organic silt ^{k, l, m, o}
	SILTS & CLAYS Liquid limit 50% or more	Inorganic	PI plots on or above "A" line	CH	Fat clay ^{k, l, m}
			PI plots below "A" line	MH	Elastic silt ^{k, l, m}
		Organic	$\frac{\text{Liquid limit} - \text{oven dried}}{\text{Liquid limit} - \text{not dried}} < 0.75$	OH	Organic clay ^{k, l, m, p} Organic silt ^{k, l, m, q}
Highly organic soils		Primarily organic matter, dark in color, and organic odor		PT	Peat

- a. Based on the material passing the 3-inch (75-mm) sieve.
b. If field sample contained cobbles and/or boulders, add "with cobbles and/or boulders" to group name
c. Gravels with 5 to 12% fines required dual symbols
GW-GM well graded gravel with silt
GW-GC well graded gravel with clay
GP-GM poorly graded gravel with silt
GP-GC poorly graded gravel with clay
d. Sands with 5 to 12% fines require dual symbols
SW-SM well graded sand with silt
SW-SC well graded sand with clay
SP-SM poorly graded sand with silt
SP-SC poorly graded sand with clay
e. $C_u = D_{60}/D_{10}$ $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$

- f. If soils contains $\geq 15\%$ sand, add "with sand" to group name.
g. If fines classify as CL-ML, use dual symbol GC-GM, SC-SM
h. If fines are organic, add "with organic fines" to group name
i. If soils contains $\geq 15\%$ gravel, add "with gravel" to group name
j. If Atterberg Limits plot in hatched area, soil is a CL - ML, silty clay
k. If soils contains 15 to 29% plus No. 200, add "with sand" or "with gravel" whichever is predominant
l. If soil contains $\geq 30\%$ plus No. 200, predominantly sand, add "sandy" to group name.
m. If soils contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name
n. PI ≥ 4 and plots on or above "A" line
o. PI ≥ 4 and plots below "A" line
p. PI plots on or above "A" line
q. PI plots below "A" line





LEGEND FOR BORING LOGS



FILL



TOPSOIL



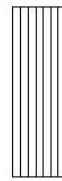
PEAT



GRAVEL



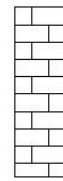
SAND



SILT



CLAY

LIMESTONE/
DOLOMITE

SAMPLE TYPE

SS	=	Split-Spoon
ST	=	Thin-Walled Tube
A	=	Auger
MC	=	Macro-Core (Geoprobe)

WATER LEVEL OBSERVATIONS

▼	While Drilling
▽	End of Boring
▼	24 Hours

FIELD AND LABORATORY TEST DATA

N	=	Standard Penetration Resistance in Blows per Foot (bpf)
WC	=	In-Situ Water Content (%)
Qu	=	Unconfined Compressive Strength in Tons per Square Foot (tsf)
*		Pocket Penetrometer Reading: Maximum Value = 4.5 tsf
Y _{dry}	=	Dry Unit Weight in Pounds per Cubic Foot (pcf)

SOIL DESCRIPTIONS:

MATERIAL

BOULDER
COBBLE
Large GRAVEL
Small GRAVEL
Coarse SAND
Medium SAND
Fine SAND
SILT and CLAY

PARTICLE SIZE RANGE

Over 12 inches
12 inches to 3 inches
3 inches to ¾ inch
¾ inch to No. 4 Sieve
No. 4 Sieve to No. 10 Sieve
No. 10 Sieve to No. 40 Sieve
No. 40 Sieve to No. 200 Sieve
Passing No. 200 Sieve

COHESIVE SOILS

<u>CONSISTENCY</u>	<u>Qu (tsf)</u>
Very Soft	Less than 0.25
Soft	0.25 to 0.5
Medium Stiff	0.5 to 1.0
Stiff	1.0 to 2.0
Very Stiff	2.0 to 4.0
Hard	4.0 and over

COHESIONLESS SOILS

<u>RELATIVE DENSITY</u>	<u>N (bpf)</u>
Very Loose	0 – 3
Loose	4 – 9
Medium Dense	10 – 29
Dense	30 – 49
Very Dense	50 and over

MODIFYING TERM

Trace
Little
Some

PERCENT BY WEIGHT

1 – 10
10 – 20
20 – 35

ELEVATIONS

GROUND SURFACE **18.0 ECD**END OF BORING **-17.0 ECD**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **Dry**▽ AT END OF BORING **21.0'**

▼ 24 HOURS

	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
0								0.5	17.5	FILL - Black clayey TOPSOIL
		1	SS	20	11.9			3.0	15.0	FILL - Brown SAND, little to some Crushed Stone and Crushed Brick, damp
5		2	SS	6	23.0			5.5	12.5	Loose brown silty fine SAND, trace clay, moist (SM)
		3	SS	6	23.0			8.0	10.0	Loose brown trace gray clayey SILT, little sand, very moist (ML)
10		4	SS	7	25.1	2.02 1.75*		13.0	5.0	Stiff to very stiff brown trace gray to brownish-gray silty CLAY, trace to little sand and gravel, moist (CL)
		5	SS	9	23.1	2.02 2.0*		15.5	2.5	Soft gray silty CLAY, little sand, very moist (CL/CH)
15		6	SS	2	37.4	0.25*		18.0	0.0	Soft gray silty CLAY, little sand, trace organic, very moist (CL)
		7	SS	3	29.0	0.25*		23.0	-5.0	Soft to medium stiff gray very silty CLAY, little sand, trace gravel, very moist (CL)
20		8	SS	4	17.1	0.5*		27.0	-9.0	Soft to medium stiff gray silty CLAY, little sand, trace organic, very moist (CL/CH)
		9	SS	5	18.0	0.5*		32.0	-14.0	Medium dense gray SILT, little sand, trace clay, moist (ML)
25		10	SS	5	39.5	0.5*				Stiff gray silty CLAY, some sand, very moist (CL)
		11	SS	16	19.8					End of Boring at 35.0'
30										* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.
35		12	SS	9	17.9	1.25*				
40										

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

ELEVATIONS

GROUND SURFACE **18.0 ECD**END OF BORING **-17.0 ECD**

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING **8.0'**▼ AT END OF BORING **Caved at 6.0'**

▼ 24 HOURS

	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
0										FILL - Dark brown clayey TOPSOIL
		1	SS	15	19.5			1.2	16.8	FILL - Dark brown silty SAND, some gravel, little Brick pieces, trace cinders, moist
		2	SS	4	28.9			3.0	15.0	FILL - Reddish brown Crushed Brick, some sand, moist
5		3	SS	6	29.6			5.5	12.5	FILL - Brown SAND and GRAVEL with Crushed Brick, moist to wet
		A			33.3					
		4	SS	4	23.0			9.0	9.0	Loose brown and gray clayey SILT, little sand, moist to very moist (ML)
10		5	SS	5	24.4					
		6	SS	2	36.3	0.25*		13.0	5.0	Soft gray silty CLAY, little sand, very moist (CL/CH)
15		7	SS	4	17.9	0.75*		15.5	2.5	Medium stiff gray silty CLAY, little sand, trace gravel, very moist (CL)
		8	SS	2	26.9	0.25*		18.0	0.0	
20		9	SS	1	28.3	0.25*				Soft gray silty CLAY, trace to little sand and gravel, very moist (CL)
		10	SS	1	27.3	0.25*				
25										
		11	SS	4	22.5	0.5*		27.0	-9.0	Soft to medium stiff gray silty CLAY, little sand, trace gravel, very moist (CL)
30										
		12	SS	4	21.9	0.5*				CME Automatic Hammer used for SPTs
35										End of Boring at 35.0'
40										* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

ELEVATIONS

GROUND SURFACE **18.5 ECD**END OF BORING **-11.5 ECD**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **Dry**▽ AT END OF BORING **23.0'**

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
0								0.6	17.9	FILL - Black clayey TOPSOIL
		1	SS	12	19.9			3.0	15.5	FILL - Brown and dark brown SAND, some Crushed Brick and Cinders, damp
5		2	SS	4	25.8	1.0*		5.5	13.0	Medium stiff to stiff brown very silty CLAY, little sand, occasional silt seams, very moist (CL)
		3	SS	5	23.9			8.0	10.5	Loose brown and gray clayey SILT, little sand, very moist (ML)
10		4	SS	9	21.8	2.42 2.5*		10.5	8.0	Very stiff brown and gray silty CLAY, trace sand and gravel, occasional silt seams, moist (CL)
		5	SS	9	28.4	1.75*		13.0	5.5	Stiff brown silty CLAY, little sand, moist (CL)
15		6	SS	2	43.2	0.37 0.25*		18.0	0.5	Soft gray silty CLAY, little sand, very moist (CL/CH)
		7	SS	1	37.3	0.25*				
20		8	SS	3	17.9	0.25*				
		9	SS	4	21.0	0.25*				▽ Soft gray silty CLAY, trace to little sand and gravel, very moist (CL)
25		10	SS	4	24.5	0.43 0.5*				
		11	SS	7	20.2	0.50 0.5*				Soft to medium stiff gray silty CLAY, trace to little sand and gravel, very moist (CL)
30										End of Boring at 30.0'
35										* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.
40										CME Automatic Hammer used for SPTs

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

ELEVATIONS

GROUND SURFACE **17.5 ECD**END OF BORING **-32.5 ECD**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **5.5 '**▽ AT END OF BORING **6.0 '**

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
0								0.8	16.7	FILL - Dark brown clayey TOPSOIL
		1	SS	7	29.4	1.5*	88	3.0	14.5	FILL - Dark brown silty CLAY, trace sand and gravel, trace organic, brick and glass pieces, very moist
5		2	SS	3	25.4			5.5	12.0	FILL - Brown SAND, little gravel, some Cinders, Slag, Glass and Brick pieces, moist
		3	SS	2	40.3					
		4	SS	1	50.6					
		5	SS	3	58.0					
		6	SS	3	51.5					
		7	SS	2	55.6					
		8	SS	2	54.1					FILL - Dark brown to black SAND with Cinders, Slag, Glass and Brick pieces, trace to little Wire and Wood pieces, wet
		9	SS	3	65.9					
		10	SS	2	50.8					
		11	SS	5	31.0					
		12	SS	3	21.1	0.57 0.5*		33.0	-15.5	Medium stiff gray silty CLAY, little sand, trace gravel, very moist (CL)
		A			10.6	1.0*		37.0	-19.5	Stiff gray very silty CLAY, some sand, very moist (CL-ML)
		13B	SS	19	9.4			39.0	-21.5	(Description on Page 2)
40										

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

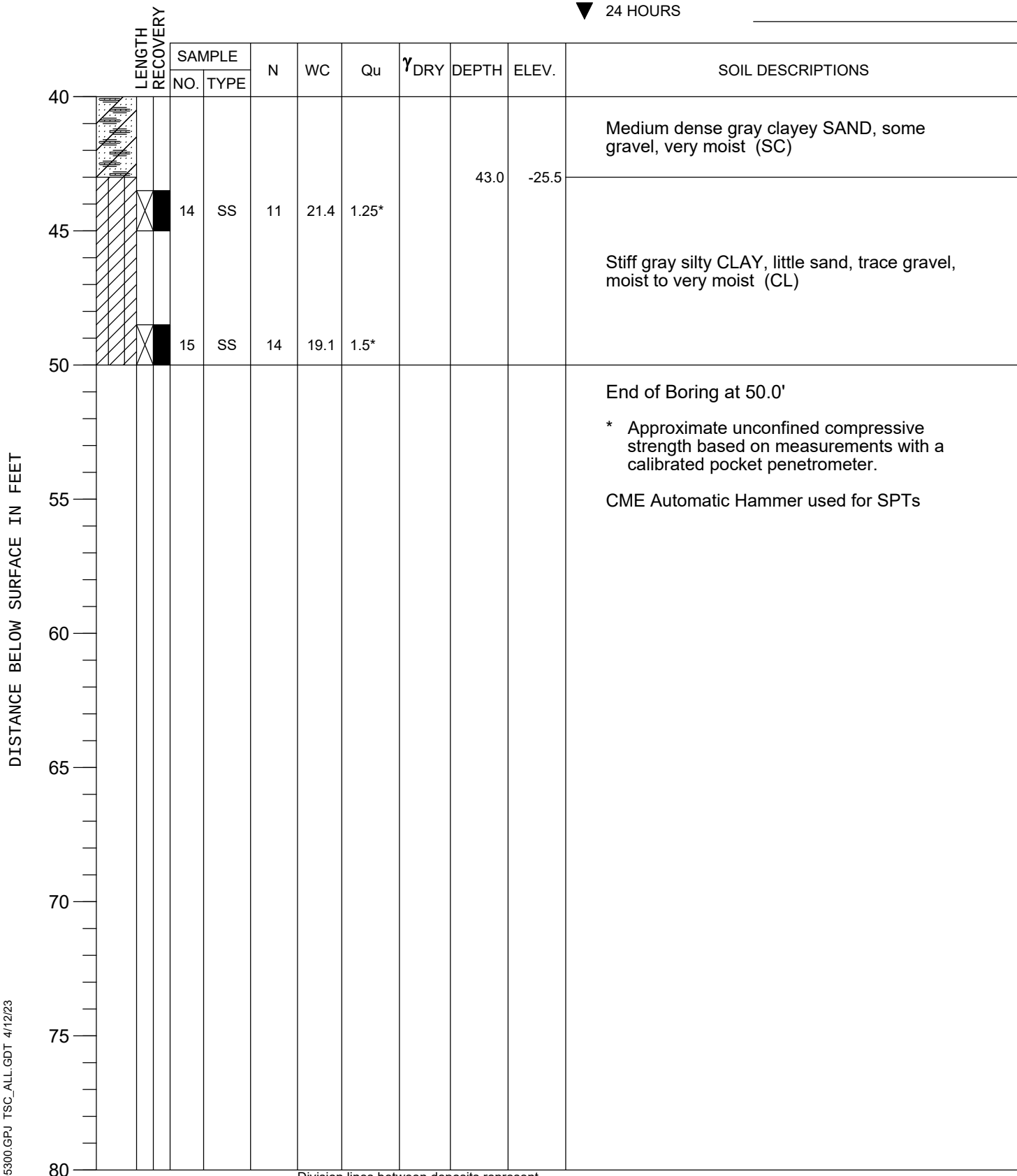
ELEVATIONS

GROUND SURFACE 17.5 ECDEND OF BORING -32.5 ECD

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING 5.5'▽ AT END OF BORING 6.0'

▼ 24 HOURS



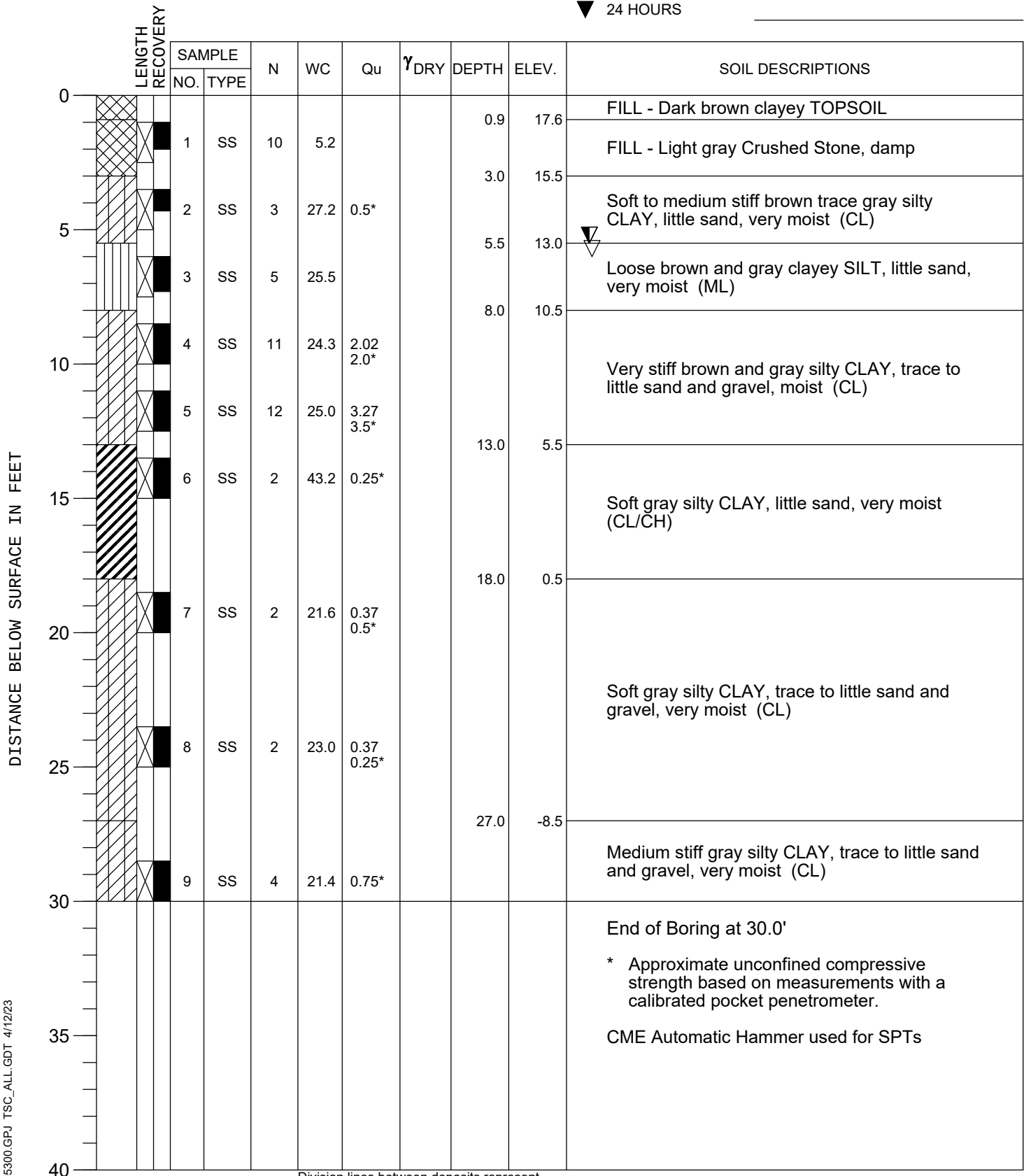
ELEVATIONS

GROUND SURFACE **18.5 ECD**END OF BORING **-11.5 ECD**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **5.5'**▽ AT END OF BORING **6.0'**

▼ 24 HOURS



Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

ELEVATIONS

GROUND SURFACE **17.0 ECD**END OF BORING **-28.0 ECD**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **5.5 '**▽ AT END OF BORING **5.0 '**

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
0								0.8	16.2	FILL - Dark brown clayey TOPSOIL (OL)
		1	SS	10	20.9					FILL - Dark brown silty SAND, trace gravel, trace cinders, slag and brick pieces, damp to moist
		2	SS	2	18.1					
5								5.5	11.5	FILL - Dark brown to black SAND with Cinders, Plastic, Glass and Wood Pieces, trace crushed brick, wet
		3	SS	5	38.0					
		4	SS	5	34.2					
		5	SS	2	44.8					
		6	SS	2	54.3					
		7	SS	2	50.9					
		8	SS	6	41.7					
		9	SS	1	66.1					
		10	SS	4	35.7					
								28.0	-11.0	Very stiff brownish-gray silty CLAY, little sand, trace gravel, moist (CL)
		11	SS	10	16.7	2.75*				
								33.0	-16.0	Medium stiff gray silty CLAY, little sand, trace gravel, very moist (CL)
		12	SS	5	18.2	0.70 0.75*				
								38.0	-21.0	Stiff gray silty CLAY, some sand, trace gravel, moist (CL)
		13	SS	11	13.9	1.5*				
40										

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT Light Pole Foundations, James Park, Evanston, IllinoisCLIENT City of Evanston - Public Works Agency, Evanston, IllinoisBORING 106 DATE STARTED 3-22-23 DATE COMPLETED 3-22-23 JOB L-95,300

ELEVATIONS

GROUND SURFACE 17.0 ECDEND OF BORING -28.0 ECD

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING 5.5 '▼ AT END OF BORING 5.0 '

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
40										Stiff gray silty CLAY, some sand, trace gravel, moist (CL)
45		14	SS	10	15.5	1.36 1.5*				
50										End of Boring at 45.0' * Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer. CME Automatic Hammer used for SPTs
55										
60										
65										
70										
75										
80										

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

DRILL RIG NO. 262

Page 2 of 2

ELEVATIONS

GROUND SURFACE **16.0 ECD**END OF BORING **-34.0 ECD**

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING **3.0 '**▼ AT END OF BORING **4.0 '**

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
0		1	SS	9	31.5	1.75*	75	2.5	13.5	FILL - Dark brown clayey TOPSOIL, very moist
		2	SS	2	54.8					
5		3	SS	2	40.6			8.0	8.0	FILL - Brown, dark brown and black silty SAND and GRAVEL with Cinders, trace clay, wet
		4	SS	4	13.7			10.5	5.5	FILL - Dark brown SAND and GRAVEL, little silt, trace cinders, wet
10		5	SS	9	23.9					
		6	SS	3	31.7					
15		7	SS	5	24.6					
		8	SS	3	25.9					
20		9	SS	5	36.7					FILL - Dark brown to black silty SAND and GRAVEL with Cinders, little Wire, Plastic, Metal and Glass pieces, wet
		10	SS	3	28.4					
25										
		11	SS	8	28.7					
30										
		12	SS	7	21.5	0.83 0.75*		33.0	-17.0	Medium stiff gray silty CLAY, little sand, trace gravel, very moist (CL)
35										
		13	SS	9	21.1	1.03 1.0*		38.0	-22.0	Stiff gray silty CLAY, little sand, trace gravel, moist to very moist (CL)
40										

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

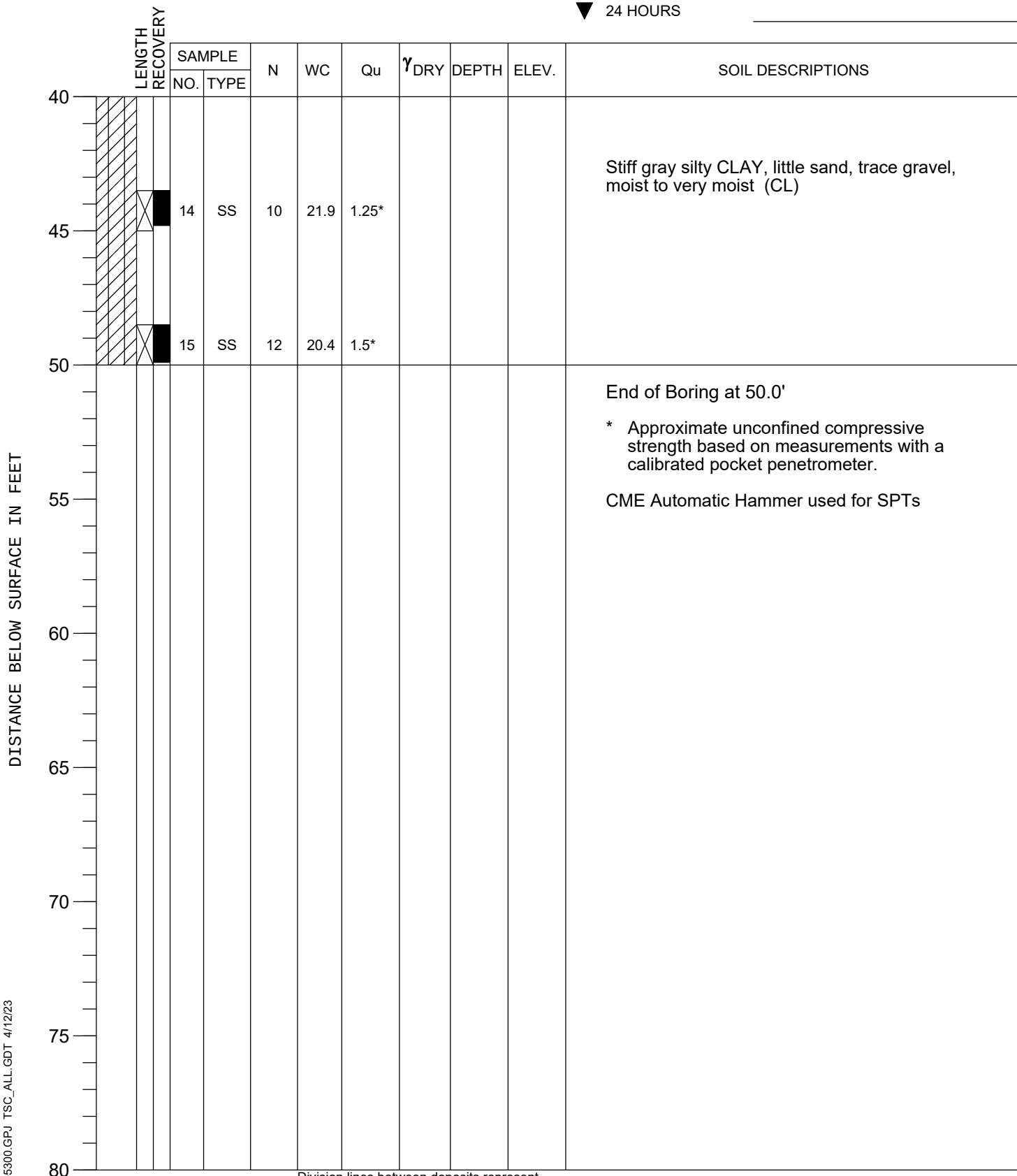
ELEVATIONS

GROUND SURFACE 16.0 ECDEND OF BORING -34.0 ECD

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING 3.0 '▽ AT END OF BORING 4.0 '

▼ 24 HOURS



Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.



ELEVATIONS

GROUND SURFACE **18.0 ECD**END OF BORING **-27.0 ECD**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **8.0 '**▽ AT END OF BORING **6.0 '**

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ _{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
0								0.5	17.5	FILL - Dark brown clayey TOPSOIL
		1	SS	14	14.7	3.5*	113	3.0	15.0	FILL - Brown trace black silty CLAY, little sand and gravel, trace organic, moist
		2	SS	10	20.3	4.0*	105	5.5	12.5	FILL - Dark gray silty CLAY, little sand, trace organic, moist
5		3	SS	5	38.3			8.0	10.0	FILL - Black sandy TOPSOIL with Wood Pieces, very moist
		4	SS	6	32.9					
		5	SS	2	19.3					
		6	SS	3	36.9					
		7	SS	4	26.4					
		8	SS	9		(No Recovery)				
		9	SS	4		(No Recovery)				
		10	SS	5	50.3					
		11	SS	5	42.3					
		12	SS	9	17.6	1.75*		33.0	-15.0	
		13	SS	10	18.6	1.5*				
40										Stiff to very stiff gray silty CLAY, little sand, trace gravel, moist (CL)

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT Light Pole Foundations, James Park, Evanston, Illinois

ATTACHMENT C

CLIENT City of Evanston - Public Works Agency, Evanston, IllinoisBORING 108 DATE STARTED 3-30-23 DATE COMPLETED 3-30-23 JOB L-95,300

ELEVATIONS

GROUND SURFACE 18.0 ECDEND OF BORING -27.0 ECD

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING 8.0 '▽ AT END OF BORING 6.0 '

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
40										Stiff to very stiff gray silty CLAY, little sand, trace gravel, moist (CL)
45		14	SS	10	18.4	2.0*				
50										End of Boring at 45.0' * Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer. CME Automatic Hammer used for SPTs
55										
60										
65										
70										
75										
80										

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

DRILL RIG NO. 262

Page 2 of 2

ELEVATIONS

GROUND SURFACE **18.5 ECD**END OF BORING **-46.5 ECD**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **8.0 '**▽ AT END OF BORING **10.0 '**

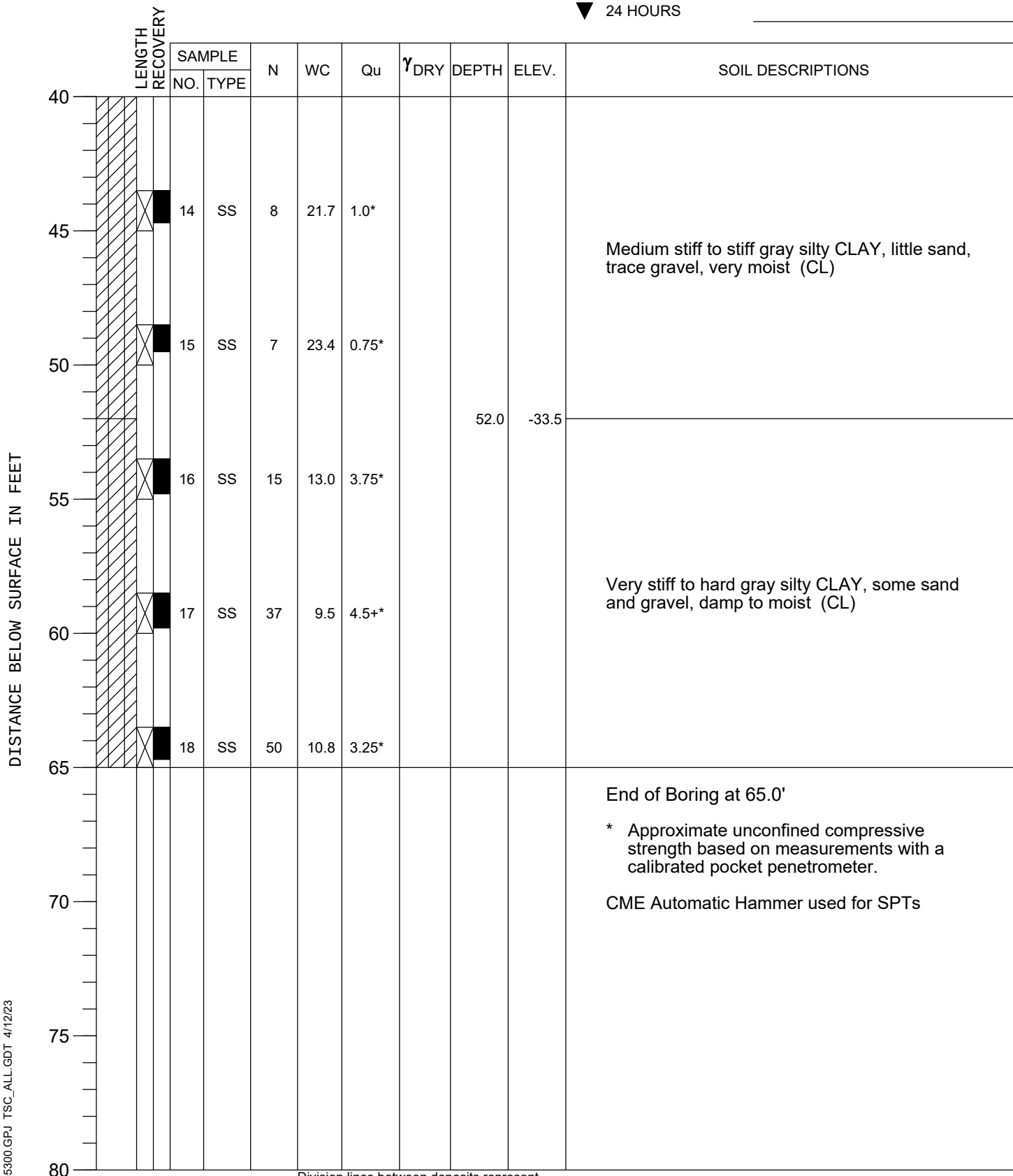
▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
0										FILL - Black clayey TOPSOIL
		1	SS	8	24.1	1.5*	94	1.2	17.3	
		2	SS	8	17.5	4.25*	114			FILL - Dark brown and brownish-gray silty CLAY, trace to little sand and gravel, trace organic, very moist to moist
5								5.5	13.0	
		3	SS	3	35.5	1.5*	80			FILL - Dark brown silty CLAY, trace sand and gravel, little Organic, very moist
		4	SS	6	38.9			8.0	10.5	▽
10										
		5	SS	1	39.4					
		6	SS	4	37.3					
15										
		7	SS	6	56.9					
		8	SS	7	22.7					
20										FILL - Dark brown SAND and GRAVEL with Cinders, little Paper, Wire, Glass, Brick and Wood pieces, wet
		9	SS	6	49.4					
		10	SS	4	26.1					
25										
		11	SS	3	44.3					
30										
		12	SS	8	18.5	0.75*		33.0	-14.5	
35										Medium stiff to stiff gray silty CLAY, little sand, trace gravel, very moist (CL)
		13	SS	6	19.5	1.0*				
40										

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

ELEVATIONS
 GROUND SURFACE 18.5 ECD
 END OF BORING -46.5 ECD

WATER LEVEL OBSERVATIONS
 ▽ WHILE DRILLING 8.0 '
 ▽ AT END OF BORING 10.0 '
 ▽ 24 HOURS



ELEVATIONS

GROUND SURFACE **20.0 ECD**END OF BORING **-50.0 ECD**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **8.0 '**▽ AT END OF BORING **15.0 '**

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE		N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
		NO.	TYPE							
0										FILL - Black clayey TOPSOIL
		1	SS	16	12.0	4.5+*	125	1.1	18.9	FILL - Brown, black and gray silty CLAY, little sand, trace gravel, little Cinders, Slag, Glass and Brick pieces, damp
								3.0	17.0	
		2	SS	10	28.4					FILL - Dark brown SAND with Cinders, little Slag, Organic and Glass Pieces, moist
5								5.5	14.5	
		3	SS	7	23.8	1.75*	102			FILL - Brown little black silty CLAY, little sand, trace gravel, trace organic, very moist
								8.0	12.0	
		4	SS	1	38.4					FILL - Dark brown and black Sand, Cinders, Slag, Plastic, Metal, Brick and Wood Pieces, wet
		5	SS	2	33.3					
		6	SS	2	17.8					
		7	SS	5	37.4					
		8	SS	4	36.8					
		9	SS	5	64.9					
		10	SS	6	88.1					
		11	SS	6	21.8					
		12	SS	8	25.6					
		13	SS	1	45.0					
40										

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

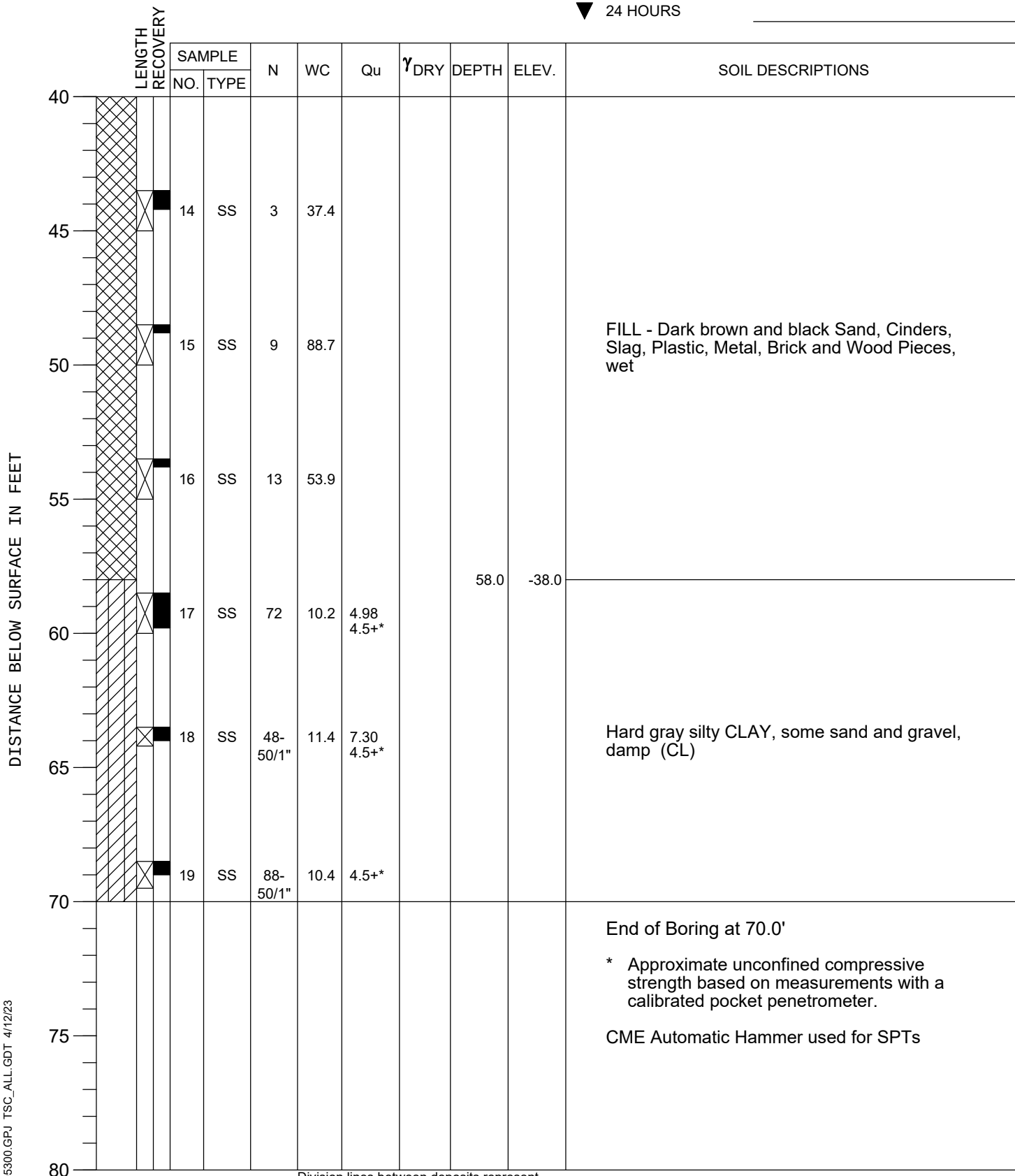
ELEVATIONS

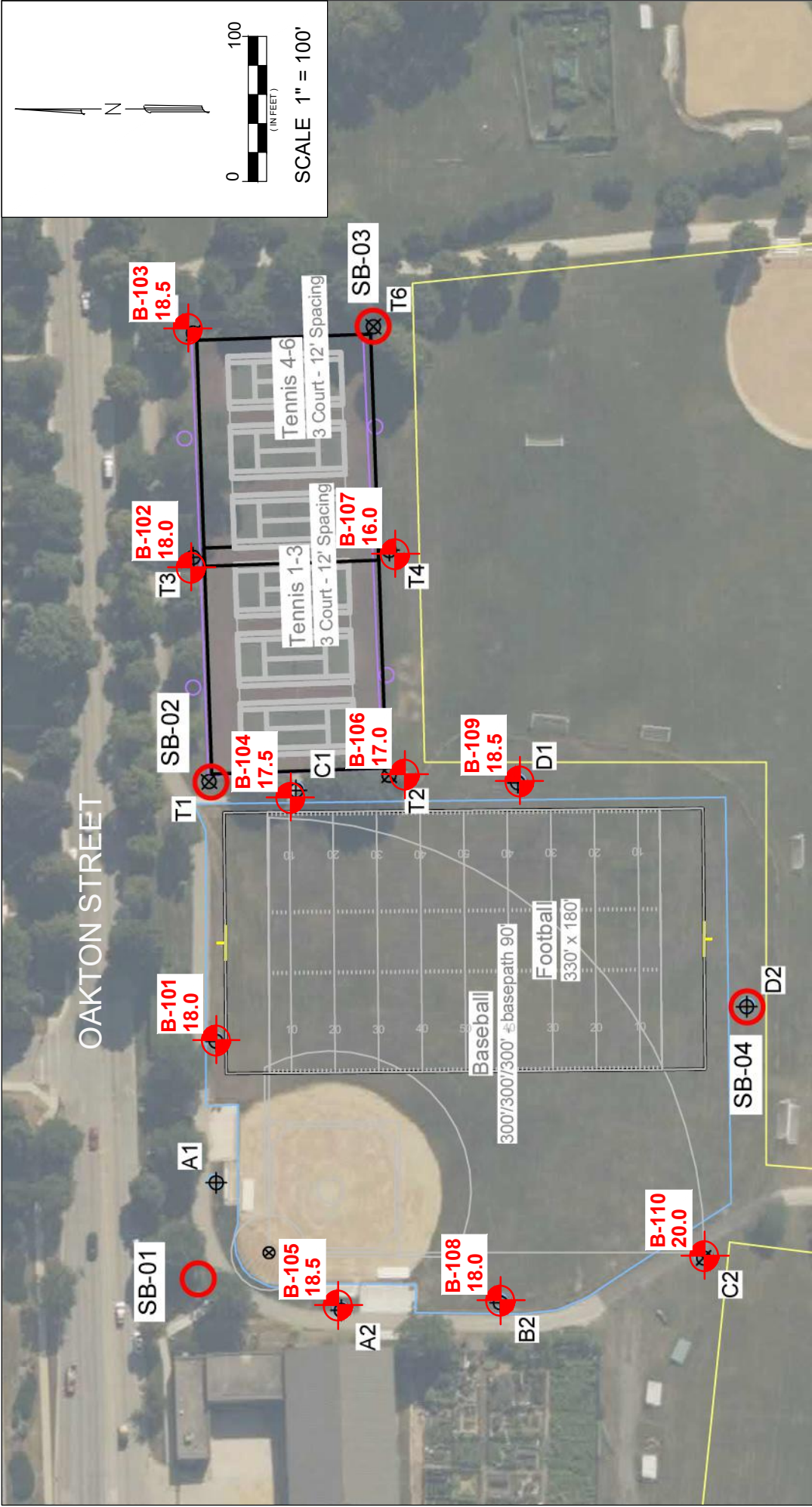
GROUND SURFACE 20.0 ECDEND OF BORING -50.0 ECD

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING 8.0 '▽ AT END OF BORING 15.0 '

▼ 24 HOURS





NOTE: GROUND SURFACE ELEVATIONS AT THE BORINGS WERE ACQUIRED BY TSC USING A TRIMBLE R8S GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.

BORINGS SB-01 TO SB-04 PERFORMED BY TERRA IN JUNE 2021.

LEGEND  SOIL BORING LOCATION	BORING LOCATION PLAN LIGHT POLE FOUNDATIONS JAMES PARK EVANSTON, ILLINOIS		TESTING SERVICE CORP. 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS 60188 	DRAWN BY: FFE CHECKED BY: AJB JOB NO.: L-95,300 DATE: 03-31-23	PAGE NO. ATTACHMENT 3 1 OF 1

Cook County Prevailing Wage Rates posted on 1/15/2025

						Overtime										
Trade Title	Rg	Type	C	Base	Foreman	M-F	Sa	Su	Hol	H/W	Pension	Vac	Trng	Other Ins	Add OT 1.5x owed	Add OT 2.0x owed
ASBESTOS ABT-GEN	All	ALL		50.15	51.15	1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
ASBESTOS ABT-MEC	All	BLD		41.27	44.57	1.5	1.5	2.0	2.0	15.84	16.02	0.00	0.90		3.11	6.21
BOILERMAKER	All	BLD		55.76	60.77	2.0	2.0	2.0	2.0	6.97	26.44	0.00	3.34	1.95	0.00	38.26
BRICK MASON	All	BLD		52.06	57.27	1.5	1.5	2.0	2.0	12.70	24.54	0.00	1.24	0.00	3.99	7.98
CARPENTER	All	ALL		55.11	57.11	1.5	1.5	2.0	2.0	12.89	26.26	2.15	0.93	0.00	0.00	0.00
CEMENT MASON	All	ALL		52.00	54.00	2.0	1.5	2.0	2.0	17.81	23.00	0.00	1.15		2.00	4.00
CERAMIC TILE FINISHER	All	BLD		47.09	47.09	1.5	1.5	2.0	2.0	13.00	16.82	0.00	1.09	0.00	5.17	10.34
CERAMIC TILE LAYER	All	BLD		54.84	59.84	1.5	1.5	2.0	2.0	13.00	20.68	0.00	1.17	0.00	7.15	14.30
COMMUNICATION ELECTRICIAN	All	BLD		49.86	54.85	1.5	1.5	2.0	2.0	15.60	14.43	1.25	1.22	0.15	0.00	0.00
ELECTRIC PWR EQMT OP	All	ALL		62.10	68.14	1.5	1.5	2.0	2.0	13.08	20.88	0.00	3.32	0.00	18.64	37.28
ELECTRIC PWR GRNDMAN	All	ALL		48.44	68.14	1.5	1.5	2.0	2.0	10.20	16.29	0.00	2.60	0.00	14.55	29.09
ELECTRIC PWR LINEMAN	All	ALL		62.10	68.14	1.5	1.5	2.0	2.0	13.08	20.88	0.00	3.32	0.00	18.64	37.28
ELECTRICIAN	All	ALL		55.55	61.11	1.5	1.5	2.0	2.0	19.06	20.61	1.50	1.78	0.40	0.00	0.00
ELEVATOR CONSTRUCTOR	All	BLD		67.84	76.32	2.0	2.0	2.0	2.0	16.18	20.96	5.42	0.75		0.00	0.00
FENCE ERECTOR	All	ALL		51.00	53.00	1.5	1.5	2.0	2.0	13.74	18.32	0.00	0.75		0.00	0.00
GLAZIER	All	BLD		51.55	53.05	1.5	2.0	2.0	2.0	15.64	26.18	0.00	2.27	0.00	0.00	0.00
HEAT/FROST INSULATOR	All	BLD		55.02	58.32	1.5	1.5	2.0	2.0	15.84	19.01	0.00	0.90		4.60	9.20
IRON WORKER	All	ALL		59.26	62.76	2.0	2.0	2.0	2.0	18.30	26.31	0.00	0.49	0.00	0.00	0.00
LABORER	All	ALL		50.15	50.90	1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
LATHER	All	ALL		55.11	57.11	1.5	1.5	2.0	2.0	12.89	26.26	2.15	0.93	0.00	0.00	0.00
MACHINIST	All	BLD		58.39	62.39	1.5	1.5	2.0	2.0	9.93	8.95	1.85	1.47		0.00	0.00
MARBLE FINISHER	All	ALL		39.50	53.55	1.5	1.5	2.0	2.0	12.70	22.32	0.00	0.73	0.00	2.88	5.76
MARBLE SETTER	All	BLD		51.00	56.10	1.5	1.5	2.0	2.0	12.70	24.01	0.00	0.92	0.00	3.73	7.45
MATERIAL TESTER I	All	ALL		40.15		1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
MATERIALS TESTER II	All	ALL		45.15		1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
MILLWRIGHT	All	ALL		55.11	57.11	1.5	1.5	2.0	2.0	12.89	26.26	2.15	0.93	0.00	0.00	0.00

Cook County Prevailing Wage Rates posted on 1/15/2025

OPERATING ENGINEER	All	BLD	1	60.80	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	2	59.50	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	3	56.95	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	4	55.20	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	5	64.55	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	6	61.80	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	7	63.80	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	1	69.35	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	2	67.85	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	3	63.35	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	4	58.85	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	5	70.85	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	6	58.85	69.35	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	1	59.00	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	2	58.45	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	3	56.40	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	4	55.00	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	5	53.80	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	6	62.00	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	7	60.00	63.00	1.5	1.5	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00
ORNAMENTAL IRON WORKER	All	ALL		57.51	60.51	2.0	2.0	2.0	2.0	14.31	26.50	0.00	2.00	0.00	0.00	0.00
PAINTER	All	ALL		53.05	59.68	1.5	1.5	1.5	2.0	15.76	16.19	0.00	1.86	0.00	0.00	0.00
PAINTER - SIGNS	All	BLD		45.49	51.09	1.5	1.5	2.0	2.0	8.20	16.81	0.00	0.00	0.00	0.00	0.00
PILEDRIIVER	All	ALL		55.11	57.11	1.5	1.5	2.0	2.0	12.89	26.26	2.15	0.93	0.00	0.00	0.00
PIPEFITTER	All	BLD		57.00	60.00	1.5	1.5	2.0	2.0	13.65	22.85	0.00	3.12	0.00	0.00	0.00
PLASTERER	All	BLD		50.00	53.00	1.5	1.5	2.0	2.0	17.81	21.22	0.00	1.15		0.00	0.00
PLUMBER	All	BLD		58.55	62.05	1.5	1.5	2.0	2.0	17.75	17.74	0.00	1.83		0.00	0.00
ROOFER	All	BLD		50.25	55.25	1.5	1.5	2.0	2.0	11.98	17.34	0.00	1.11	0.00	0.00	0.00
SHEETMETAL WORKER	All	BLD		53.05	57.29	1.5	1.5	2.0	2.0	14.88	28.65	0.00	1.15	0.00	0.00	0.00

Cook County Prevailing Wage Rates posted on 1/15/2025

SIGN HANGER	All	BLD		36.72	39.66	1.5	1.5	2.0	2.0	7.45	4.70	0.00	0.00	0.00	0.00	0.00
SPRINKLER FITTER	All	BLD		60.00	62.75	1.5	1.5	2.0	2.0	14.95	19.40	0.00	1.10	0.00	0.00	0.00
STEEL ERECTOR	All	ALL		59.26	62.76	2.0	2.0	2.0	2.0	18.30	26.31	0.00	0.49	0.00	0.00	0.00
STONE MASON	All	BLD		52.06	57.27	1.5	1.5	2.0	2.0	12.70	24.54	0.00	1.24	0.00	3.99	7.98
SURVEY WORKER	All	BLD		56.50	57.50	1.5	1.5	2.0	2.0	17.75	14.15	0.00	1.49		0.00	0.00
SURVEY WORKER	All	HWY		56.50	57.50	1.5	1.5	2.0	2.0	17.75	14.15	0.00	1.49		0.00	0.00
TERRAZZO FINISHER	All	BLD		48.94	48.94	1.5	1.5	2.0	2.0	13.00	18.42	0.00	1.11	0.00	4.22	8.44
TERRAZZO MECHANIC	All	BLD		52.85	56.35	1.5	1.5	2.0	2.0	13.00	19.81	0.00	1.15	0.00	4.47	8.94
TRAFFIC SAFETY WORKER I	All	HWY		42.10	43.70	1.5	1.5	2.0	2.0	11.11	9.81	0.00	1.05	0.00	0.00	0.00
TRAFFIC SAFETY WORKER II	ALL	HWY		43.10	44.70	1.5	1.5	2.0	2.0	11.11	9.81	0.00	1.05	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	1	43.45		1.5	1.5	2.0	2.0	13.15	16.09	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	2	43.70		1.5	1.5	2.0	2.0	13.15	16.09	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	3	43.90		1.5	1.5	2.0	2.0	13.15	16.09	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	4	44.10		1.5	1.5	2.0	2.0	13.15	16.09	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	1	43.43		1.5	1.5	2.0	2.0	11.70	16.11	0.00	0.25		0.00	0.00
TRUCK DRIVER	W	ALL	2	43.58		1.5	1.5	2.0	2.0	11.70	16.11	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	3	43.78		1.5	1.5	2.0	2.0	11.70	16.11	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	4	43.98		1.5	1.5	2.0	2.0	11.70	16.11	0.00	0.25	0.00	0.00	0.00
TUCKPOINTER	All	BLD		51.53	52.53	1.5	1.5	2.0	2.0	10.05	22.66	0.00	1.15	0.00	0.00	0.00

Legend

Rg Region

Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers

C Class

Base Base Wage Rate

OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

OT Sa Overtime pay required for every hour worked on Saturdays

OT Su Overtime pay required for every hour worked on Sundays

OT Hol Overtime pay required for every hour worked on Holidays

H/W Health/Welfare benefit

Vac Vacation

Trng Training

Cook County Prevailing Wage Rates posted on 1/15/2025

Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations COOK 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.

TRUCK DRIVERS (WEST) - That part of the county West of Barrington Road.

EXPLANATION OF CLASSES

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

CERAMIC TILE FINISHER

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

COMMUNICATIONS ELECTRICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice sound vision production and reproduction, telephone and telephone interconnect, facsimile, data apparatus, coaxial, fibre optic and wireless equipment, appliances and systems used for the transmission and reception of signals of any nature, business, domestic, commercial,

Cook County Prevailing Wage Rates posted on 1/15/2025

education, entertainment, and residential purposes, including but not limited to, communication and telephone, electronic and sound equipment, fibre optic and data communication systems, and the performance of any task directly related to such installation or service whether at new or existing sites, such tasks to include the placing of wire and cable and electrical power conduit or other raceway work within the equipment room and pulling wire and/or cable through conduit and the installation of any incidental conduit, such that the employees covered hereby can complete any job in full.

MARBLE FINISHER

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

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

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

OPERATING ENGINEER - BUILDING

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

Cook County Prevailing Wage Rates posted on 1/15/2025

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

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

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

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

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

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro

Cook County Prevailing Wage Rates posted on 1/15/2025

Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

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

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

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

Class 6. Field Mechanics and Field Welders

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

OPERATING ENGINEER - FLOATING

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

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

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

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

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

SURVEY WORKER

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Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking.

SURVEY FOREMAN

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking; oversees survey crew operations; and/or coordinates work of survey crews.

TERRAZZO FINISHER

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

TRAFFIC SAFETY Worker I

Traffic Safety Worker I - work associated with the delivery, installation, pick-up and servicing of safety devices during periods of roadway construction, including such work as set-up and maintenance of barricades, barrier wall reflectors, drums, cones, delineators, signs, crash attenuators, glare screen and other such items, and the layout and application or removal of conflicting and/or temporary roadway markings utilized to control traffic in construction zones, as well as flagging for these operations.

TRAFFIC SAFETY WORKER II

Work associated with the installation and removal of permanent pavement markings and/or pavement markers including both installations performed by hand and installations performed by truck.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION - EAST & WEST

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

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

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

Cook County Prevailing Wage Rates posted on 1/15/2025

trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

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

Other Classifications of Work:

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

LANDSCAPING

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

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

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

Cook County Prevailing Wage Rates posted on 1/15/2025

Registering for DemandStar



We are pleased to announce our membership in the DemandStar network. DemandStar is an online marketplace that connects our suppliers directly to the bids, quotes and RFPs that matter to them.

DemandStar is open and accessible to all businesses and provides instant access to our solicitations. By registering for your complimentary DemandStar account, you will receive:

- **Instant** access to bids, quotes and RFPs
- **Automatic** notifications, right to you inbox, of bids that match the commodity codes you select
- The ability to **quickly view** the contractual terms and scope of work
- All the **forms and documents** you need in one place
- Access to **more government bids** in neighboring cities, counties and states

It's EASY! Get started with these 3 easy steps!

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Go to:

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Select State ▼

County

Select County ▼

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B u i l d i n g C o m m u n i t i e s .

(E-bidding) Electronic Bidding Instructions

Introduction

To submit a bid electronically (e-bidding) on DemandStar

- The project **MUST** be setup for e-bidding by the government agency advertising the opportunity

Bid Identifier	Agency Name	Bid Status	Broadcast Date	Date Due ▼	Name	Actions
RFP-2019-01-0-2019/df	Town of Malabar	Active	5/15/2019	5/31/2019	Malabar Parks and Recreation Board Memorial Wall Project	Planholders, Download/Order, Details
EBID-20190077-0-2019/HF	City of Port St. Lucie, Procurement Management Department	Active	4/25/2019	5/31/2019	Purchase Breaching "Backpack" Gas Masks and Gas Mask Cartridges for the Police Department JAG Grant Funded	E-Bidding, Planholders, Download/Order, Details



How to check if it is an e-bidding opportunity

- Not all opportunities posted on DemandStar by government are available for e-bidding
- Those that are available for you to electronically bid will list "e-bidding" as an available "ACTION" when you look at the project details

In order to do
e-bidding

1. Click on “E-bidding” in
the actions column

Bid Identifier	Agency Name	Bid Status	Broadcast Date	Date Due ▼	Name	Actions
RFP-2019-01-0-2019/df	Town of Malabar	Active	5/15/2019	5/31/2019	Malabar Parks and Recreation Board Memorial Wall Project	Planholders, Download/Order, Details
EBID-20190077-0-2019/HF	City of Port St. Lucie, Procurement Management Department	Active	4/25/2019	5/31/2019	Purchase Breaching “Backpa Gas Masks and Gas Mask Cartridges for the Police Department JAG Grant Funded	E-Bidding, Planholders, Download/Order, Details

In order to do
e-bidding

2. Enter your contact information and enter in all required fields

Note: You **MUST** put a number of the “BID AMOUNT” box. However, that number can be 0 so as to allow for a more detailed descriptions of your bid through your uploaded documents.

Contact Information

** indicates required fields*

Company Name *

Address 1 *

Address 2

City *

State *

Postal Code *

Phone *

Fax

Country *



Bid Amount *

Alternate Bid Amount

Notes

In order to do e-bidding

- In the agency required documents section – check the documents you intend on uploading and fulfilling. By checking these boxes this is **ONLY** an acknowledgement of how you will fulfill the requirement. You still have to upload the documents.

Required Documents



The following documents are required by the agency for this project. Please select which documents you will be submitting electronically (online) and which ones you will submit directly to the agency (offline).

Agency Required Documents

Document	None	Online/ Electronic	Offline/ Manual	Not submitting
-				
<u>Bid Reply</u>	☐	☒	☐	☐
<u>Checklist</u>	☐	☒	☐	☐
<u>Subcontractor List</u>	☐	☒	☐	☐
<u>Current Workload, List of Projects and Completion Dates</u>	☐	☒	☐	☐
<u>Questionnaire</u>	☒	☐	☐	☐
<u>Drug Free Workplace Form</u>	☒	☐	☐	☐

In order to do e-bidding

Upload your response documents in an accepted file format

Make sure that you have covered and uploaded all the required documents

E-Bid Response Documents

Agency Name	City of Port St. Lucie, Procurement Management Department
Bid Number	EBID-20190077-0-2019/HF
Bid Name	Purchase Breaching "Backpack" Kits, Gas Masks and Gas Mask Cartridges for the Police Department JAG Grant Funded
Bid Due Date	5/31/2019 3:00:00 PM Eastern time
Bid Opening	14 days, 21 hours, 45 minutes, 5 seconds

No response documents uploaded

Agency Accepted File Formats



Formats

Adobe Acrobat (*.PDF)
Microsoft Excel (*.XLS)
Microsoft Excel (*.XLSX)
Microsoft PowerPoint (*.PPT)
Microsoft Word (*.DOC)
Microsoft Word (*.DOCX)

Upload Electronic Documents

** indicates required fields*



Document Title *

Specify Upload Document *

No file chosen

(Type the path of the document, or click the Browse button.)

In order to do e-bidding

Once you decide you've uploaded all your documents that you would like to submit, make sure you click the **NEXT** button at the bottom of the screen

E-Bid Response Documents

Agency Name City of Port St. Lucie, Procurement Management Department
Bid Number EBID-20180218-6-2018/jer
Bid Name Sculpture on Lawn at City Hall Temporary Art Installation
Bid Due Date 1/9/2019 2:00:00 PM Eastern time
Bid Opening 100 days, 1 hour, 20 minutes, 11 seconds

	Document Title	Format	Size	Uploaded	Status	Action
1	 E-Bidding for Suppliers	Microsoft Word	12 Kb	10/1/2018 9:39:50 AM	Complete	View , Remove

Agency Accepted File Formats

Formats
Adobe Acrobat (*.PDF)
Microsoft Excel (*.XLS)
Microsoft Excel (*.XLSX)
Microsoft PowerPoint (*.PPT)
Microsoft Word (*.DOC)
Microsoft Word (*.DOCX)

Upload Electronic Documents

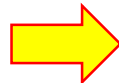
* indicates required fields

Document Title *

Specify Upload Document *

(Type the path of the document, or click the Browse button.)

Your document has successfully uploaded but your response is not yet complete. You must still click 'Submit Response' on Bid Response Details page in order to complete your response and receive a confirmation



Completing your e-bid submittal

- Please **VERIFY** that you have attached **ALL** the required documents
- Click on the **Submit Response** button to complete your e-bid

Agency Required Documents

[EDIT](#)

1. **Bid Reply** (Electronic/Online) ✓
2. **Checklist** (Electronic/Online) ✓
3. **Subcontractor List** (Electronic/Online) ✓
4. **Current Workload, List of Projects and Completion Dates** (Electronic/Online) ✓
5. **Questionnaire** (Electronic/Online) ✓
6. **Drug Free Workplace Form** (Electronic/Online) ✓
7. **Current Certificate of Insurance** (Electronic/Online) ✓
8. **License/Certification to do Described Work** (Electronic/Online) ✓
9. **Reference Check Form** (Electronic/Online) ✓
10. **E-Bid Reply Excel Spreadsheet** (Electronic/Online) ✓
11. **E-Bid Bond** (Electronic/Online) ✓
12. **Vendor Code of Ethics** (Electronic/Online) ✓
13. **W-9 form** (Electronic/Online) ✓

Uploaded Documents

[EDIT](#)

1. test document upload to ensure ebidding active

E-Bid Confirmation

After clicking "Submit Response" the following process will begin:

- We will verify that your response is complete as entered.
- You will see a confirmation page with your confirmation number and date/time stamp of your upload.
- You will receive a confirmation e-mail indicating a successful response submittal.
- You may track your response submission under the View Responses page.

If you do not receive any of the above, please call Supplier Services at (206) 940-0305.

[<< Return](#)[Submit Response](#)

Confirmation of Response

- When you complete you will receive a confirmation
- This is a confirmation that what you uploaded will be visible to the agency when the bid closes, **this is not** a confirmation that all your documents were fill out or submitted correctly

E-Bid Response Details

Agency Name City of Port St. Lucie, Procurement Management Department

Bid Number EBID-20180218-0-2018/jer

Bid Name **Sculpture on Lawn at City Hall Temporary Art Installation**

Bid Due Date 1/9/2019 2:00:00 PM Eastern time

Bid Opening 100 days, 1 hour, 6 minutes, 46 seconds

Response # 15104

Results Your bid response is submitted.

<< Return

Post Submission Edits

If you feel like you missed something or need to make a change you can go back to your submittal response and edit your e-bid. By clicking on “DETAILS” then “EDIT” the section you wish

Bid Identifier	Agency Name	Bid Status	Broadcast	Date Due ▼	Name	Status	Actions
EBID-20190077-0-2019/HF	City of Port St. Lucie, Procurement Management Department	Active	4/25/2019	5/31/2019	Purchase Breaching “Backpack” Kits, Gas Masks and Gas Mask Cartridges for the Police Department JAG Grant Funded	Incomplete	Details, Bid, History

Contact Information

[EDIT](#)

Company Name Sample DBE Company

Address 1 509 Olive Way

Address 2

City Seattle

State Washington

Postal Code 98101

Phone 2063739233

Fax 2063739233

Country United States of America

Bid Amount \$0.00

Alternate Bid Amount

Notes



Agency Required Documents

[EDIT](#)

1. Bid Reply (Electronic/Online) ✓