

CITY OF EVANSTON
SPECIFICATIONS AND BID DOCUMENTS
Construction Bid with Sub-Contractors

BID NUMBER: 26-30

For

2026 Playground Improvements
May 28, 2026



BID DUE DATE: **2:00 P.M., Tuesday, June 23, 2026**

VIRTUAL BID OPENING: **2:15 P.M., Tuesday, June 23, 2026**
Google Meet ID: meet.google.com/erk-vjyw-pza
Phone Numbers: 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: November 13th, 2026**
Final Completion: December 11th, 2026

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 the project due date/time.**

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**CITY OF EVANSTON
NOTICE TO BIDDERS**

The City's Purchasing Office will receive bids until 2:00 P.M. local time, Tuesday, June 23, 2026, 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. 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:

2026 Playground Improvements

Bid Number: 26-30

Work on this project includes: Playground replacement, general paving, and amenity updates at three City of Evanston Parks: Burnham Shores (1251 Lake Shore Boulevard), Eggleston Park (2100 Payne Street), and Snyder Tot-Lot(745 Judson Avenue).

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.php 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.

Tammi Nunez
Purchasing Manager

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

1. **ONLINE NOTIFICATION OF SOLICITATIONS**

The City is utilizing Demandstar.com (www.demandstar.com) for online 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 the 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 ensure 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 fees will be waived 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. RESPONSIBLE BIDDER POLICY

All contractors must follow the requirements of Ordinance 1-O-26, the City's Responsible Bidder Ordinance. Ordinance 1-O-26 is attached hereto for reference. The following items are required of all contractors:

- **Local Employment Program (LEP):** Contractors must ensure that at least 15% of total on-site work hours are performed by Evanston residents and that at least one Evanston resident is hired. These obligations apply across all tiers of subcontractors and must be documented.
- **Apprenticeship Training Program:** Bidders shall submit evidence of enrollment in a U.S. Department of Labor registered Apprenticeship Training Program for each construction craft performed. These programs must have graduated at least five apprentices in each of the last five years.
- **Minimum Performance Threshold:** Named bidder must directly perform at least 25% of project services. Affiliates or subsidiaries do not count toward this percentage.
- **Commercially Useful Function:** All contractors and subcontractors must actively manage and perform contract work. Excessive subcontracting or pass-through participation may result in disqualification.
- **Subcontractor Disclosure:** Submit the name, address, and documentation for all subcontractors with bid. Each subcontractor must comply with all requirements set forth in this template.

29. 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.

30. 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.

31. INCURRED COSTS

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

32. VARIANCES

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

33. 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.

34. 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.

35. 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.

36. 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.

37. 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.

38. 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, the 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

39. BIDDER SUBMITAL REQUIREMENTS FOR RESPONSIBLE BIDDER ORDINANCE

Documentation or Certification	Description
OSHA Certification	10-hour or greater OSHA safety card copies for all employees on-site
Prevailing Wage Compliance	Statement confirming 5-year compliance with the Illinois Prevailing Wage Act
Substance Abuse Program	Copy of written program per 820 ILCS 265/1
Workers’ Compensation Policy	Active policy and classification documentation
UI Act Registration	IDES current registration
Corporate Status	Illinois Secretary of State Business Services record
Tax and Legal Disclosures	List of liens, judgments, or violations from the last 5 years
Business Licenses	Copies of all relevant licenses with current status
Statement of Similar Projects	Last 5 years’ public works projects with references
Performance History	Public body contracts completed in the last 3 years
Subcontractor Information	Full documentation for each subcontractor
Sam.gov ID Number	ID Number to be used on projects with State or Federal Funding

If applicable, compliance documentation under:

- Davis-Bacon and Related Acts
- Employee Certification Act
- 720 ILCS 5/33-11 Anti-Bid Rigging Certification

Additional contractor responsibilities include:

- Submission of certified payrolls within five (5) working days of each pay period end
- Identification of all employees by name, address, craft, status, and hire date
- Documentation that all employees are properly classified and licensed
- Notification within two (2) business days of any resident employee resignations or terminations
- Replacement of Evanston resident employees within five (5) business days to avoid penalties
- Provision of required documentation prior to any subcontractor commencing work

Failure to meet these requirements may result in penalties of up to 1% of the approved project price and may jeopardize future eligibility for City contracts.

40. QUESTIONS

All questions related to this bid document should be submitted in writing to Tammi Nunez, Purchasing Manager at tnunez@cityofevanston.org with a copy to Kenon Boehm, 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.

41. 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.

42. 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.”

43. 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.

44. 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 the 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.

45. 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.

46. 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, **before 50% completion**, less a 10% retainage for each payment; **at or after 50% completion**, less a 5% 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 the *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. 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 the 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: November 13, 2026
Final Completion Deadline: December 11, 2026

- 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</u>	<u>INSURANCE</u>	<u>COVERAGE</u>
	Consequent Death		Bodily Injury and Property Damage
		Each Occurrence	
<u>Aggregate</u>			
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
2026 Playground Improvements

(BID #26-30)

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: **2026 PLAYGROUND IMPROVEMENTS**

1.04 ACKNOWLEDGMENT:

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 the 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 the 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 the 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:

BASE BID AMOUNT: \$ _____

ALLOWANCE (ADDITIONAL WORK – GENERAL): \$ _____ +75,000

TOTAL BASE BID AMOUNT: \$ _____

ALTERNATE 1 – EGGLESTON FENCING EXTENSION

This alternate includes utilizing 230 lf of salvaged panels (panel fence type 1) from Snyder Tot-Lot and installing on new 2"x2" posts. Also included is the addition of 100 lf of new panel fence type 2 as depicted in the construction documents. The ADD/DEDUCT LUMP SUM PRICE, if awarded to the undersigned, shall be:

ALTERNATE 1 AMOUNT: \$ _____

1.11 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: _____.

1.12 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.

1.13 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.

1.14 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>
_____	_____	_____
_____	_____	_____
_____	_____	_____

1.15 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__

Commission Expires: _____

Notary Public

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__

Commission Expires: _____

Notary Public

1.16 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: _____

1.17 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: _____

1.18 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

RBO COMPLIANCE CERTIFICATION

[Company Letterhead]

City of Evanston – Bid Compliance Certification

We hereby certify that [Company Name] is in full compliance with the requirements set forth under Ordinance 1-O-26, attached hereto, including but not limited to all applicable provisions under Section 1-17-1 of the Evanston City Code.

Our company has reviewed and will adhere to:

- The Local Employment Program (LEP), including the hiring of Evanston residents and achieving 15% of project hours performed by said residents.
- The Apprenticeship Training Program requirement, with attached documentation of program participation and graduation rates.
- The prohibition on excessive pass-through subcontracting; we will perform a minimum of 25% of the contracted work directly.
- All certification and documentation obligations outlined in the ordinance.

Signed: _____

Name: _____

Title: _____

Company Name: _____

Project Title: _____

Project Number: _____

Date: _____

EXHIBIT B

RBO COMPLIANCE CERTIFICATION

[Company Letterhead]

City of Evanston – Legal & Regulatory Compliance Certification

I, [Authorized Representative Name], hereby certify that [Company Name] complies with and has provided documentation for each of the following:

- Illinois Prevailing Wage Act (past 5 years; no violations)
- Substance Abuse Prevention on Public Works Project Act (written policy included)
- Workers' Compensation Act (policy attached, correct classification)
- Unemployment Insurance Act (IDES registration included)
- Employee Classification Act
- Davis-Bacon Act (if applicable)
- Registered in Sam.Gov (if applicable)
- Unique Entity Identifier (UEI) (if applicable)
- Corporate good standing with the Illinois Secretary of State
- Illinois Department of Revenue registration
- No federal, state, or local tax liens or delinquencies within the past 5 years
- Disclosure of any violations or determinations by federal or state authorities related to contracting, safety, tax, licensing, or labor laws.

Signed: _____

Name: _____

Title: _____

Project Title: _____

Project Number: _____

Date: _____

EXHIBIT B

RBO COMPLIANCE CERTIFICATION

[Subcontractor Letterhead]

City of Evanston – Subcontractor Compliance Certification

Subcontractor Name: _____

Prime Contractor: _____

Project Title: _____

Project Number: _____

I hereby certify that [Subcontractor Name] will comply with all City of Evanston ordinance requirements applicable to public works contracts, including Local Employment Program provisions, Apprenticeship Program participation, and regulatory compliance obligations listed under Ordinance 1-O-26.

All documentation and certifications have been submitted to the prime contractor and will be furnished to the City upon request.

Signed: _____

Name: _____

Title: _____

Date: _____

EXHIBIT C

CITY OF EVANSTON LOCAL EMPLOYMENT PROGRAM (LEP) COMPLIANCE

Effective Date January 1, 2015

City of Evanston Ordinance 60-O-14, Local Employment Program (LEP) 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 Workforce Development 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 Jessica Cooper, the Workforce Development Coordinator at jcooper@cityofevanston.org or Tammi Nunez, Purchasing Manager at tnunez@cityofevanston.org.

EXHIBIT C

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: _____

EXHIBIT D

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 Business Enterprises, 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 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/W/D/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 E

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 an 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 a business license if applying as an EBE

EXHIBIT E

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 F

M/W/D/EBE PARTICIPATION WAIVER REQUEST

I am _____ of _____, and I have the 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 attach a written explanation of why sub-contracting is not feasible. Please provide details supporting your request.

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

Please attach a written explanation of why M/W/D/EBE participation is impracticable. Please provide details supporting your request.

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

Signature: _____
(Signature)

Date: _____

EXHIBIT G

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

EXHIBIT H

**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 I

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 the 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 J

ADDITIONAL INFORMATION SHEET

Bid/Proposal Name: _____

Bid/Proposal Number #: _____

Company Name: _____

Contact Name: _____

Address: _____

City, State, Zip: _____

Telephone/FAX: # _____

E-mail: _____

Comments: _____

EXHIBIT K

**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 our current city ordinance, 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 L

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.
- D. 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 M

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 N

**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 O

Contractor Services Agreement Acknowledgment 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:

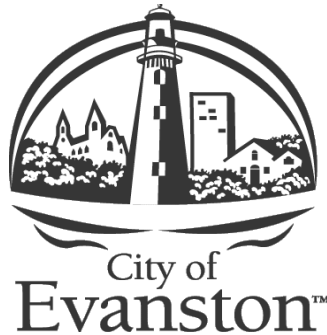
**Authorized
Signature:**

**Company
Name:**

**Typed/Printed
Name and Title:**

Date:

EXHIBIT O



CONTRACTOR SERVICES AGREEMENT

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

2026 Playground Improvements

(BID #26-30)

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 2007, 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.

1.17 Digital Accessibility for Vendors, The City requires that all applicable web content, mobile applications, and electronic documents provided by our vendor partners meet WCAG 2.1 AA compliance and continue to maintain compliance with federal ADA requirements for local government platforms.

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 5/2105 *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.

7.2 Each phase of the project shall be completed in accordance with the activities outlined in the City's RFQ/RFP/Bid, Exhibit A.

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

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 2026, 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, RFQ/RFP/Bid _____
909 Davis Street
Evanston, Illinois 60201

if to the Contractor:

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, 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 B. Ruggie

Its: Corporation Counsel

Revision: April 2026

EXHIBIT P

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

1.1 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.

1.2 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.

1.3 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	GENERAL NOTES
R-01	BURNHAM SHORES DEMOLITION PLAN
R-02	EGGLESTON PARK DEMOLITION PLAN
R-03	SNYDER PARK DEMOLITION PLAN
L-01A	BURNHAM SHORES LAYOUT PLAN
L-01B	BURNHAM SHORES PLAYGROUND ENLARGEMENT
L-02A	EGGLESTON PARK LAYOUT PLAN
L-02B	EGGLESTON PARK LAYOUT ENLARGEMENT
L-02C	EGGLESTON PARK PLAYGROUND ENLARGEMENT
L-03A	SNYDER TOT LOT LAYOUT PLAN
L-03B	SNYDER TOT LOT PLAYGROUND ENLARGEMENT
P-01	EGGLESTON PARK PLANTING PLAN
D-01	DETAILS
D-02	DETAILS
D-03	DETAILS
D-04	DETAILS
D-05	DETAILS
D-06	DETAILS

1.4 PROJECT SUMMARY

- A. Work on this project includes playground replacement, general paving, and amenity updates at three City of Evanston Parks: Burnham Shores (1251 Lake Shore Boulevard), Eggleston Park (2100 Payne Street), and Snyder Tot-Lot(745 Judson Avenue).

1.5 SPECIAL PROCEDURES AND REQUIREMENTS

- A. Fire Protection

1. Regulations: The Contractor shall comply with all federal, state and local fire regulations.

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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 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.

1.6 TEMPORARY CONSTRUCTION FACILITIES

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

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<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
Parking spaces for workmen	Within job site and 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

1.1 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.

1.2 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.

1.3 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.

1.4 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.

1.5 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.

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- D. Move any stored products, under Contractor's control, which interfere with operation of the Owner or separate contractor.
- E. Obtain and pay for the use of additional storage or work areas needed for operations.

1.6 OWNER OCCUPANCY

- A. The City and the public will occupy the park, with exception of the area within the construction fence, properties during execution of the work.
- B. Contractor shall not utilize or prevent access to any existing utility easement areas during the entire construction period.

1.7 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.

1.8 DESCRIPTION OF SITE

- A. There are three sites located across the City of Evanston. Burnham Shores is a 5.6-acre park with a playground just south of the Dempster Street Beach Office at 1251 Lake Shore Blvd. Eggleston Park is a 2.6-acre park with a playground along the North side of the park at 2100 Payne Street. Snyder Tot Lot is a .27-acre park with a playground along the East side nearest the alley at 745 Judson Ave. Each park consists of a children's playground, pathways, site amenities, and landscaping.

1.9 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.

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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
1. The Contractor shall be responsible for obtaining and verifying all dimensions. Any dimension give 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

1.1 SUMMARY

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

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. 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.

1.3 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.

1.4 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.
 - f. List of principal suppliers and fabricators.

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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 original of the Application and Certificate for Payment and the continuation sheet or sheets to the Architect and Owner for approval.
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 retainage in accordance with 30 ILCS 550/1.
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.

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.

3.3 PERFORMANCE

- A. Execute fitting and adjustment or provide finished installation to comply with specified tolerances and finishes.

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- 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

1.1 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.

1.2 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.

1.3 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.

1.4 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.

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

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- 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

3.1 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.

3.2 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.
- C. As construction proceeds, check every major element for line, level and plumb.

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- 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

1.1 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.

1.2 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.

1.3 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.

1.4 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.

1.5 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.

1.6 REGULATORY REQUIREMENTS

A. Source and requirements:

1. EBA: "Environmental Barriers Act" Illinois Accessibility Code

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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

1.1 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.

1.2 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.

1.3 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 Officials	ACI	American Concrete Institute PO Box 19150 Detroit, MI 48219-	ACIL	American Council of Independent Laboratories 1725 K St, NW

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	444 N. Capitol St, Suite 225 Washington, DC 20001 (202) 624-5800		0150 (313) 532-2600		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 Bldv, 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	ASHRAE	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 (805) 495-7120	ASSE	American Society of Sanitary Engineers PO Box 40362 Bay Village, OH 44140	ASTM	American Society for Testing and Materials 1916 Race St Philadelphia, PA 19103 (215) 299-5400

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			(216) 835-3040		
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
MBMA	Metal Building Manufacturers Assoc. 1230 Keith Building	MCAA	Mechanical Contractors Assoc. of America	NAAM M	National Assoc. of Architectural Metal Manufacturers

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	Cleveland, OH 44115-2180		5410 Grosvenor Lane, Ste 120 Bethesda, MD 20814 (301) 897-0770		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 1106 W. 77 th Street, South Dr. Indianapolis, IN 4626	RIS	Redwood Inspection Service 405 Enfrente Dr, Suite 300 Novato, CA 94949 (415) 382-0662	RMA	Rubber Manufacturers Assoc. 1400 K St, NW Washington, DC 20005 (202) 682-4800

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	(317) 251-6970				
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
CS	Commercial Standard (US Dept of Commerce)	DOC	Department of Commerce 14 th St and	DOT	Department of Transportation 400 7 th St, SW

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	Government Printing Office Washington, DC 20402 (202) 377-2000		Constitution Ave, NW Washington, DC 20230 (202) 377-2000		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

1.4 GOVERNING REGULATIONS/AUTHORITIES

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- 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.

1.5 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

1.1 SUMMARY

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

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.

1.3 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

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approval of utility company and other party owning, operating or maintaining such utility.

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.

1.4 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

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working hours to reduce time of each interruption, at no addition to Contract Sum.

- 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

1.1 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.

1.2 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.

1.3 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

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17. MBE/WBE/EBE and LEP requirements
18. Coordination with affected utilities and governing jurisdictions

1.4 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.

1.5 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 (General): \$75,000.00

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

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 35 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
 - 2. Project title and number

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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	1x10 ⁻² 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

1.1 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.

1.2 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.

1.3 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

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required to engage an entity for the same or related element, the 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.

1.4 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.

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1. Submit additional copies of each written report directly to the governing authority, when the authority so directs.
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.

1.5 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.

1.6 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.

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1. Comply with specified Standards: ASTM, other recognized authorities, and as specified.
 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.

1.7 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

3.1 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

1.1 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.

1.2 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 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.

1.4 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

2.1 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

3.1 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.

3.2 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.

3.3 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.
- 3.4 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.
- 3.5 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

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personnel and the public of the hazard being protected against. Where appropriate and needed, provide lighting, including flashing red or amber lights.

- 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.

3.6 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

1.1 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.

1.2 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 QUALITY CONTROL

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

1.4 DUST CONTROL

- A. Provide dust control materials to minimize dust from construction operations. Prevent air-borne 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.

1.5 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.

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- 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.

1.6 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.

1.7 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.

1.8 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.

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- D. Provide systems for control of atmospheric pollutants.
 - 1. Prevent toxic concentrations of chemicals.
 - 2. Prevent harmful dispersal of pollutants into the atmosphere.

1.9 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 56 39

TREE/SHRUB REMOVAL AND PROTECTION

Tree and Shrub Removal and Damage

Trees and shrubs identified for removal are designated on the Drawings. It is not anticipated that any other trees or shrubs will need to be removed for performance of the Work. Should the Contractor recommend removing additional trees or shrubs, the Contractor shall notify the Owner for approval prior to removing any trees or shrubs. To receive permission for removal of trees or shrubs, the Contractor must demonstrate that there is no other practicable way to complete the Work, including auguring or hand-excavation. Contractor shall work with the Engineer to seek a tree preservation permit or review for any excavation that will occur within 25 feet of any public or private tree. Permit fees are waived.

Owner recognizes that some tree branches will need to be pruned to provide clearance for construction equipment. However, the Contractor shall secure the express permission of the City Arborist to trim specific overhanging branches of trees. All tree trimming, pruning, and repair of wound surfaces shall be performed by a licensed arborist approved by the Owner and will be within standards generally recognized as best practice by industry professionals. The Owner will provide appropriate staff to observe tree trimming operations. The Contractor shall provide at least 72-hour notice to the Owner of trimming operations. No trimming shall be done unless Owner's staff is available to observe trimming. Trimming shall be performed to the satisfaction of Owner's staff. The Contractor shall provide proper tree guards to protect trees from damage due to construction equipment and operations.

Trees and shrubs damaged due to construction operations or removed without approval shall be replaced, at Contractor's expense, with trees or shrubs of like species and size, to a maximum trunk size of 2-inches diameter as directed by the City Arborist. If trees larger than 6-inches in diameter are irreparably damaged or destroyed, the Contractor shall replace these trees with trees 2-inches in diameter per City's mitigation formula, and with a species chosen by the City Arborist. In addition to these replacements, the Contractor shall be subject to fees, penalties, and fines for tree damage as indicated in the City's [Tree Canopy Preservation Policy](#). Tree trimming, pruning, repair of wound surfaces, removal of trees and shrubs requested by Contractor, replacement of trees and shrubs irreparably damaged, and mitigation costs and/or penalties for damage, shall be incidental to the items of work to which they pertain.

Tree Protection

Contractors are advised that it is the express intent of the City of Evanston to minimize trimming of and other impacts to trees in the work areas and to vigorously protect the health and quality of the urban forest on both public and private property. The equipment and methods used to perform any and all portions of the work must be the size and nature that results in the least disruption to the existing environment. The City of Evanston reserves the right to limit the size of the equipment used on the project.

The Contractor shall at all times demonstrate to the satisfaction of the City of Evanston that suitable precautions and due diligence are being observed to protect the natural and improved features of the area. Special and continuing attention will be paid to the maintenance of tree protection fencing and the appropriate observance of tree protection areas as delineated by the fencing.

To ensure compliance with the City of Evanston's intent to minimize area disturbances, the following procedures and actions will be followed: When the City arborist determines that a tree is improperly protected, the Contractor shall be notified. If the contractor fails to rectify the deficiency immediately, the Engineer will impose a daily monetary deduction for each 24-hour period (or portion thereof) the deficiency exists. This time period will begin with the time of notification to the Contractor and end with the Engineer's acceptance of the corrections. The cost of the daily deduction will be \$250 per occurrence per calendar day. In addition, the Contractor will be liable and responsible for any and all corrective and remedial actions required to restore the area or item to comparable pre-project conditions as well as any

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additional fines and fees as stated in these specifications, including a potential penalty of \$500 per occurrence per calendar day for failure to provide restoration that meet's the City Arborist's approval.

Care of Existing Plant Material

If construction is planned within the critical root zone of existing plant material, root pruning and plant care will be required, as hereinafter specified. All pruning shall be performed by a certified arborist approved by the City and with appropriate qualifications.

The Contractor shall be responsible for taking measures to minimize damage to any part of public and private trees, including limbs, trunks, and roots at each work site. All such measures shall be included in the base bid contract price.

A. EARTH SAW CUT OF TREE ROOTS (TREE ROOT PRUNING)

1. Whenever the proposed excavation falls within the drip-line of a tree, the contractor shall:
 - a. Root prune 6-inches behind and parallel to the proposed edge of excavation a neat, clean vertical cut to a depth of 24 inches through all the affected tree roots. Any roots encountered at a greater depth shall be neatly sawcut at no additional cost.
 - b. Root prune to a maximum width of 4 inches using a "Vermeer" wheel matching the following criteria. The root pruner wheel shall be 60" diameter (188" circumference) carrying 28 pair (56 total) stump cutter teeth with tooth spacing at 6.7" on center. The cutting depth shall be 24" and shall utilize a 65hp tractor. Trenching machines will not be permitted.
 - c. Exercise care not to cut any existing utilities.
 - d. The Engineer or City Arborist will mark locations where earth saw cutting of tree roots is required in the field.
2. All root pruning cuts shall be immediately backfilled with material side cast from the earth-sawing procedure, so that the ground surface is even and no tripping potential exists.
3. All root pruning work is to be performed through the services of a certified arborist approved by the City Arborist.

B. TEMPORARY FENCE

1. The Contractor shall erect a temporary fence around all trees within the construction area to establish a "tree protection zone", as established by City Arborist, before any work begins or any material is delivered to the jobsite. No work is to be performed (other than root pruning), materials stored, or vehicles driven or parked within the "tree protection zone" at any time during construction.
2. The exact location and establishment of the "tree protection zone" fence shall be approved by the City Arborist prior to setting the fence. The fence shall be 48 inches high, plastic poly-type or any other type of highly visible barrier in an open-weave type pattern with large openings. The type, color and pattern of the fence shall be approved by the Engineer prior to erection. This fence shall be properly maintained in an upright manner and shall remain up until final restoration, unless the Engineer directs removal otherwise. Tree fence shall be supported using T-Post style fence posts at a maximum of 8' spacing. T-posts must be at least six feet in length, two feet of which must be set in the ground. The fence shall be attached to posts and secured with a minimum of three nylon locking ties per post. Utilizing rebar as a fence post will not be permitted.

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3. Fence shall be installed at the tree protection zone of the tree or at a minimum of 8 feet from the center of the tree.
4. Parking or maneuvering of machinery, stockpiling of materials or any other use will not be allowed upon unpaved areas within 10 feet of the trunk of trees designated to be protected.
5. Construction area is defined as all areas within 10 feet of any excavation.
6. All work within the "tree protection zone" shall have prior approval of the City Arborist. All slopes and other areas not re-graded should be avoided so that unnecessary damage is not done to the existing turf, tree root system, or ground cover.
7. The grade within the "tree protection zone" shall not be changed unless approved by the Engineer prior to making said changes or performing the work.
8. U-shaped, non-uniform, or other fencing around multiple trees is permitted and encouraged as approved by the City arborist or Engineer.
9. If excavation is within 5 feet of the trunk of the tree such that protection fencing is not possible, Contractor shall protect the trunk using boards, as detailed below.
10. Tree protective fencing to remain in place for entirety of construction. Any temporary removal for any reason, will alert City's arborist.

C. TREE TRUNK PROTECTION

1. When temporary fencing cannot be installed as noted above, the Contractor shall provide 2 in. by 8 in. by 8 ft. boards banded continuously around each trunk to prevent scarring of trees shown on the plans or designated by the Engineer. For multi-stem trees, saplings, and shrubs to be protected within the area of construction, temporary fencing may be used for trunk protection

D. TREE PRUNING

1. Tree pruning shall consist of pruning branches to protect the health of the tree, protect the canopy from damage, maintain the structural integrity of the tree, to ensure public safety, and to preserve the aesthetic qualities of the urban forest, or as directed by the City Arborist or Engineer. All pruning shall be done according to the current ANSI A300 (part 1) pruning standard. Trees selected for pruning will be cleaned of dead, diseased, or broken branches, thinned appropriately to reduce density of branches, raised to provide vertical clearance for pedestrian and vehicular traffic, and if warranted by species tolerance and specimen needs limbs will be reduced to promote a central leader and good structure. Pruning to provide clearance will be allowed up to 14 feet above pavement or park features. If additional clearance is needed a request in writing shall be submitted to the City Arborist. All branch pruning to American elm and oak trees will be done between when the trees are dormant. Dormancy is generally between November and March but will vary by year and will be defined the City Arborist.

END OF SECTION 01 56 39

SECTION 01 58 00

PROJECT CONSTRUCTION SIGN

PART 1 - GENERAL

1.1 WORK INCLUDES

A. Contractor shall:

1. Fabricate, install and remove one (1) project construction sign 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
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 $\frac{3}{4}$ 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

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for embedment and mounting details to securely install posts and mount signs to posts. Contractor shall provide bracing as necessary to secure posts.

- 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

1.1 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.

1.2 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.

1.3 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.

1.4 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.

1.5 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

2.1 PRODUCT SELECTION

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- 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.
 - a. Manufacturer's recommendations may be contained in published product literature, or by the manufacturer's certification of performance.

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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

3.1 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

1.1 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.

1.2 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.

1.3 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.

1.4 SUBSTITUTION REQUIREMENTS

- A. Submit three (3) copies of each request for substitution. Include in request:
 - 1. Complete data substantiating compliance of proposed substitution with contract documents.

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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.

PART 2 – PRODUCTS

(NOT APPLICABLE)

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PART 3 – EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 63 00

SECTION 01 70 00

PROJECT CLOSEOUT

PART 1 - GENERAL

1.1 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.

1.2 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 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.

1.4 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.

1.6 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.

1.7 INSTRUCTION

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

1.8 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.

1.9 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)

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END OF SECTION 01 70 00

SECTION 01 71 00

CLEANING

PART 1 - GENERAL

1.1 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.

1.2 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 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

2.1 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.

PART 3 - EXECUTION

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3.1 DURING CONSTRUCTION

- A. Execute cleaning to ensure that grounds and public properties are maintained free from accumulations of waste materials and rubbish. Public right-of-way shall be kept free of dirt and debris at all times.
- 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.

3.2 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.
- E. Repair, patch and touch up marred surfaces to specified finish, to match adjacent surfaces.

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- 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

1.1 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.

1.2 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.

1.3 MARKING DEVICES

A. Provide ballpoint pens, red color.

1.4 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.

D. Contract drawings: Legibly mark to record actual construction:

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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.

1.5 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

1.1 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.

1.2 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.**

1.3 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.

1.4 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.

1.5 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.

1.6 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.

PART 2 - PRODUCTS

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(NOT APPLICABLE)

PART 3 - EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 73 00

SECTION 01 74 00

WARRANTIES AND BONDS

PART 1 - GENERAL

1.1 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.

1.2 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.

1.3 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.

1.4 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 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. Pre-demolition 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 and footings
 - 2. Concrete reinforcement.
 - 3. Joint devices associated with concrete work.
 - 4. Concrete finish.
 - 5. 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 finishes as well as 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.
- B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.

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- 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.
- F. Mockups: Concrete wall mockup on site, approximately 36 by 18 by 6 inches, of finishes and textures to match design detail reference. Mockup to feature (3) different topcast finishes as discussed with LA.

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. Concrete shall be gap graded with weathered round coarse aggregate consisting of not more than 45%-50% maximum content
 - 3. Fly Ash Content: Maximum 25 percent of cementitious materials by weight.
 - 4. Water--Cement Ratio: Maximum .55 percent by weight.
 - 5. 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.
 - 6. Maximum Slump: 4 inches.
- G. Normal Weight Concrete for Vertical Walls:
 - 1. Compressive Strength, when tested in accordance with ASTM C39/C39M at 28 days: 4,000 pounds per square inch, unless noted otherwise
 - 2. Concrete shall be gap graded with weathered round coarse aggregate consisting of not more than 45%-50% maximum content
 - 3. Fly Ash Content: Maximum 25 percent of cementitious materials by weight.
 - 4. Water--Cement Ratio: Maximum .55 percent by weight.
 - 5. 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.
 - 6. Maximum Slump: 4 inches.
 - 7.

2.8 SURFACE RETARDER AND FINISHING AIDS FOR VERTICAL WALLS

- A. Spray Applied, film forming top surface retarder designed for specific sized aggregates and finish requirements. Color Coded to allow for ease of application and verification of etch level being used as well as even and complete coverage.
 - 1. Acceptable Material: Top Cast Surface Retarders by GCP Applied Technologies
- B. Spray Applied and film forming protective coating for adjacent masonry and concrete surfaces
 - 1. Acceptable material: Top Cast SS 100 by GCP Applied Technologies.

Top Cast Surface Retarders and Top Cast SS-100 distributed by Dayton Superior Corporation
1125 Byers Road, Miamisburg, OH 45342
Dayton Superior Customer Service: 888-977-9600
<https://www.daytonsuperior.com/products/system?name=top-cast-decorative-finish-system>

2.9 REINFORCEMENT FABRICATION

- A. Fabricate concrete reinforcing in accordance with CRSI (DA4) - Manual of Standard Practice.

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- 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).

2.10 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.

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 according to bonding agent manufacturer's instructions.
 - 1. Use latex bonding agent only for non-load-bearing applications.

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- E. In locations where new concrete is doweled to existing work, drill holes in existing concrete, insert epoxy-coated 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.

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.

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- 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.
- 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.

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- D. Exposed Coarse Aggregate finishes: Do not use tools that may force the aggregate away from the surface creating a non-uniform surface after exposure
1. Protect all areas, aluminum trim, curbs, borders and adjacent concrete and masonry surfaces, pavers, stones etc. that are not to receive retarder finish prior to concrete placement and retarder application using GCP Applied Technologies Top Cast SS 100 Surface Protectant. Distributed by Dayton Superior.
 2. Place concrete in the manner prescribed previously. Screed or strike off the surface in two (2) directions using a wooden or metal 8 straight edge to achieve the proper elevation in a sawing motion back and forth.
 3. Allow the bleed water to evaporate the surface. It can then be floated using a wooden hand float or a bull-float preferably wooden to close the surface and surround the coarse aggregate with cement paste. Do not overwork the surface, as this tends to drive the aggregate down away from the surface to be exposed. Float to a uniform appearance.
 4. To reduce the rate of evaporation of moisture from the concrete use AquaFilm® J74RTU during the finishing process, his reduction of moisture loss allows time for proper finishing.
- E. Exposed Sand Finishes: The use of a rolling tamper, jitterbug or rolling jitterbug shall be considered when producing micro etched concrete surfaces. This will enable the finisher to create a denser surface paste with no obstruction due to the appearance of coarse aggregate, allowing for a uniform sand texture.
1. Protect all areas, aluminum trim, curbs, borders and adjacent concrete and masonry surfaces, pavers, stones etc. that are not to receive retarder finish prior to concrete placement and retarder application using GCP Applied Technologies Top Cast SS 100 Surface Protectant. Distributed by Dayton Superior
 2. Place concrete in the manner prescribed previously. Screed or strike off the surface in two (2) directions using a wooden or metal straight edge to achieve the proper elevation in a sawing motion back and forth.
 3. Allow the bleed water to evaporate the surface. It can then be floated using a wooden hand float or a bull-float preferably wooden to close the surface and surround the coarse aggregate with cement paste. Float to a uniform appearance. Follow float operations with hand trowels or Fresno steel trowels to create tight dense smooth surface. (This may require two or three passes depending upon mix design and or desired finish to be achieved)
 4. To reduce the rate of evaporation of moisture from the concrete use AquaFilm® J74RTU during the finishing process, his reduction of moisture loss allows time for proper finishing.
- NOTE: Do not burnish the surface or allow the micro etched surface to prematurely dry prior to the application of Top Cast.
- F. Concrete Surface Retarders: Spray Applied, film forming top surface retarder, designed for specific sized aggregates and finish requirements. Color coded to allow for ease of application and verification of grade being used as well as even and complete coverage.
1. Soon after the final seal finish has been completed spray GCP Applied Technologies “Top Cast” surface retarder using a lowpressure sprayer with a 0.5gpm tip at a rate of 200—350 sq./ft. per gallon in a full hiding coat.
 - a. Once dry GCP Applied Technologies “Top Cast “will yield a coating that provides intermittent rain protection. Once completely dry it can be covered to protect the surface if heavy extended rains are predicted.

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Retarder Selection Guide

Number / Aggregate Size to Expose / Color

01 / Light Acid Wash Finish / White

03 / Acid Etch Finish / Violet

05 / Sand Texture Finish / Lt. Blue

15 / up to ¼" agg. / Yellow

25 / 1/8" to ¼" agg. / Beige

50 / 1/8" to 3/8" agg. / Canary Green

75 / ¼"-3/8" agg. / Blue

100 / 3/8" to ½" agg. / Gray

125 / 3/8" to 5/8" agg. / Pink

150 / 3/8" to 5/8" agg. / Green

200 / 5/8" to 1" agg. / Salmon

250 / 1" to 1 ½" agg. / Lt. Orange

2. Wash surface with water rinse using stiff brooms and water hose or by high pressure washing with power equipment as early as 4-16 depending on weather conditions. Retarder removal intervals are dependent upon strength of the concrete mix, aggregate size and desired washing techniques. Earlier washing on the light etches may be necessary. Verify in accordance with the mock-up approval detailed herein.
3. Rinse water and cement matrix removal shall be in accordance with local codes and should not be allowed to be washed or flow down to arroyos, storm sewers, ponds, streams or sanitary sewers by precipitation or other surface flows.
4. Prior to completion of the project, remove wash water residue from the site to location approved by the local district

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

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

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- 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 04 10 20

MASONRY RESTORATION AND CLEANING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Repointing mortar joints
 - 2. Replacement of defective masonry and stone units
 - 3. Cleaning masonry and stone

1.2 DEFINITIONS

- A. Low-Pressure Spray: 100 to 400 psi (690 to 2750 kPa); 4 to 6 gpm (0.25 to 0.4 L/s).
- B. Medium-Pressure Spray: 400 to 800 psi (2750 to 5500 kPa); 4 to 6 gpm (0.25 to 0.4 L/s).
- C. High-Pressure Spray: 800 to 1200 psi (5500 to 8250 kPa); 4 to 6 gpm (0.25 to 0.4 L/s).

1.3 SUBMITTALS

- A. Product Data: For each product indicated. Include recommendations for application and use. Include test reports and certifications substantiating that products comply with requirements.
- B. Samples for verification, before erecting the mockup, of the following:
 - 1. Each new exposed material to be used for replacing existing materials. Include in each set of samples the full range of colors and textures to be expected in the completed Work.
 - 2. Each type of mortar for pointing and masonry rebuilding and repair in the form of sample mortar strips, 6 inches long by 1/2 inch wide, set in aluminum or plastic channels.
 - 3. Each type of repair anchor.
- C. Qualification Data: For firms and persons specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.
- D. Restoration program for each phase of the restoration process, including protection of surrounding materials on the columns. Describe in detail the materials, methods, equipment, and sequence of operations to be used for each phase of the restoration work.
 - 1. If alternative materials and methods to those indicated are proposed for any phase of restoration work, provide a written description, including evidence of successful use on other comparable projects, and a testing program to demonstrate their effectiveness for this Project.
- E. Cleaning program indicating cleaning process, including protection of surrounding materials and Project site, and control of runoff during operations. Describe in detail the materials, methods, and equipment to be used.

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1. If materials and methods other than those indicated are proposed for cleaning work, provide a written description, including evidence of successful use on other comparable projects, and a testing program to demonstrate their effectiveness for this Project.

1.4 QUALITY ASSURANCE

- A. Restoration Specialist: Engage an experienced masonry restoration and cleaning firm that has completed work similar in material, design, and extent to that indicated for this project and with a record of successful in-service performance.
 1. At Contractor's option, the work may be divided between 2 specialist firms, one for cleaning work and one for repair work
 2. Field Supervision: Require Restoration specialist firms to maintain an experience full-time supervisor on the Project site during time that masonry restoration and cleaning are in progress.
- B. Chemical Manufacturer Qualifications: A company regularly engaged in producing masonry cleaners that have been used for similar applications with successful results, and with factory-trained representatives who are available for consultation and Project site inspection and assistance at no additional cost.
- C. Field Samples: Prepare field samples for restoration methods and cleaning procedures to demonstrate aesthetic effects and qualities of materials and execution. Use materials and methods proposed for completed Work and prepare samples under same weather conditions to be expected during remainder of Work.
 1. Locate field sample area on existing wall approximately 18"x18" where directed by the Landscape Architect, preferable on "back side", for:
 - a. Stone Repair
 - b. Repointing

Within the sample area, prepare 2 separate sample areas for each type of repointing required; one for demonstrating methods and quality of workmanship expected in removing mortar from joints and the other for demonstrating quality of materials and workmanship expected in pointing mortar joints.
 - c. Cleaning
 - 1) Allow a waiting period of not less than 7 days after completion of sample cleaning to permit a study of sample panels for negative reactions.
 2. Maintain field samples during construction in an undisturbed condition as a standard for judging the completed Work.
- D. Source of Materials: Obtain materials for stone restoration from a single source for each type of material required (stone, cement, sand, etc.) to ensure a match of quality, color, pattern, and texture.
- E. Pre-Construction Conference: Before starting masonry restoration and cleaning, meet at project site with Installer Superintendent, coating material manufacturer's representative and Owner's Representative to review materials and procedures. Record discussions and furnish copy of meeting notes to each participant.

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1.5 DELIVERY, STORAGE AND HANDLING

- A. Carefully pack, handle, and ship stone and accessories strapped together in suitable packs or pallets or in crates or heavy-duty containers. Deliver other materials to Project site in manufacturer's original and unopened containers, labeled with type and name of product and manufacturer.
- B. Store cementitious materials off the ground, under cover, and in a dry location or in waterproof containers. Keep containers tightly closed and away from open flames. Protect liquid components from freezing. Store aggregates, covered and in a dry location, where grading and other required characteristics can be maintained and contamination avoided. Comply with manufacturer's written instructions for minimum and maximum temperature requirements for storage.

1.6 PROJECT CONDITIONS

- A. Do not repoint mortar joints or repair stone unless air temperature is between 40 and 80 deg F (4 and 27 deg C) and will remain so for at least 48 hours after completion of Work.
- B. Cold-Weather Requirements: Do not perform masonry work when atmospheric temperature is below 40 deg F or is predicted to fall below 40 deg F or within 72 hours without taking following precautions:
 - 1. Masonry temperature shall not be less than 20°F when laid; Remove visible ice on masonry units. Heat mortar and maintain above freezing until used in masonry.
 - 2. 20° F - 25° F: Provide heat source and wind breaks on both sides of masonry under construction.
 - 3. Below 20°F: Provide enclosure for masonry under construction and heat source to maintain temperature above 32°F.
 - 4. 40°F to 32°F Completed Masonry: Protect completed masonry with cover for 24 hours after construction.
 - 5. 32° F to 25°F Completed Masonry: Completely enclose completed masonry with cover for 24 hours after construction.
 - 6. 25° F to 20°F Completed Masonry: Protect completed masonry with insulating cover for 24 hours after construction.
 - 7. Below 20°F Completed Masonry: Provide enclosure and supplemental heat as required to maintain masonry temperature above 32°F for 24 hours after construction.
 - 8. Accelerating admixtures may be used only with non-load bearing masonry.
- C. Hot-Weather Requirements: Protect restoration work when temperatures and humidity conditions produce excessive evaporation of water from mortar and patching materials. Provide artificial shade and wind breaks and uses cooled materials as required. Do not apply mortar to substrates with temperatures of 90°F and above.
- D. Clean stone surfaces only when air temperature is 40 deg F (4 deg C) and above and will remain so for at least 7 days after completion of cleaning.
- E. Prevent grout or mortar used in repointing and repair work from staining face of surrounding stone and other surfaces. Immediately remove grout and mortar in contact with exposed stone and other surfaces.
- F. Protect sills, ledges, and projections from mortar droppings.

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1.7 SEQUENCING AND SCHEDULING

- A. Order replacement materials at the earliest possible date, to avoid delaying completion of the Work.
- B. Perform masonry restoration work in the following sequence:
 - 1. Remove plant growth.
 - 2. Inspect for open mortar joints and repair before cleaning to prevent the intrusion of water and other cleaning materials into the wall.
 - 3. Clean masonry and stone surfaces.
 - 4. Rake out mortar from joints surrounding masonry to be replaced and from joints adjacent to masonry repairs along joints.
 - 5. Repair masonry including replacing existing masonry with new masonry materials.
 - 6. Rake out existing mortar from joints to be repointed.
 - 7. Point mortar and sealant joints.
 - 8. After repairs and repointing have been completed and cured perform final cleaning to remove residues from masonry and stone.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Reused Stone: Carefully remove existing stone indicated without damaging units. Clean and salvage units for reuse. If existing stone is unacceptable for re-use or if insufficient quantities are salvageable, furnish new units matching existing color, texture, shape and size.
- B. Portland Cement: ASTM C 150, Type I or Type II. Low-Alkali Cement: Portland cement shall contain not more than 0.60 percent total alkali when tested according to ASTM C 114.
- C. Hydrated Lime: ASTM C 207, Type S.
- D. Aggregate for Mortar: ASTM C 144, unless otherwise indicated. Provide natural or manufactured sand selected to produce mortar color to match existing.
 - 1. For pointing mortar, provide sand with rounded edges. Match size, texture, and gradation of existing mortar as closely as possible.
- E. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for mortar mixes. Use only pigments with a record of satisfactory performance in masonry mortars.
- F. Water: Clean, free of deleterious amounts of acids, alkalies or organic material.

2.02 CLEANING MATERIALS

- A. Warm Water: Heat water to a temperature of 140 to 160 deg F (60 to 71 deg C).
- B. Job-Mixed Detergent Solution: Solution prepared by mixing 2 cups (0.5 L) of tetrasodium polyphosphate (TSPP), 1/2 cup (125 mL) of laundry detergent (Tide, All, etc.), and 20 quarts (20 L) of hot water for each 5 gal. (20 L) of solution required.

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- C. Job-Mixed Mold, Mildew, and Algae Remover: Solution prepared by mixing 2 cups (0.5 L) of tetrasodium polyphosphate (TSP), 5 quarts (5 L) of 5 percent sodium hypochlorite (bleach), and 15 quarts (15 L) of hot water for every 5 gal. (20 L) of solution required.
- D. Nonacidic Gel Cleaner: Manufacturer's standard nonacidic gel containing detergents and chelating agents and specifically formulated for cleaning brick surfaces. Cleaner shall have a pH between 6 and 9 and shall not be considered a hazardous waste according to 40 CFR 261.
- E. Nonacidic Liquid Cleaner: Manufacturer's standard mildly alkaline liquid cleaner formulated for removing mold, mildew, and other organic soiling from ordinary building materials, including brick, aluminum, plastics, and wood.
- F. Mild Acidic Cleaner: Manufacturer's standard mildly acidic cleaner containing no hydrochloric, hydrofluoric, or sulfuric acid; chlorine bleaches; or caustic soda.
- G. Acidic Cleaner: Manufacturer's standard strength general purpose cleaner designed for removing mortar/grout stains efflorescence, and other stains from masonry without discoloring or damaging masonry. Verify compatibility of cleaning products with Water Repellent Coatings.
 - 1. Sure Klean Restoration Cleaner by ProSoCo
 - 2. Diedrich 101 Masonry Restorer/Cleaner

2.03 MORTAR MIXES

- A. Mortar Mix: The mortar shall match the existing mortar color as closely as possible and as approved by Owner's Representative. Once a mix is established, that same mix shall be used throughout the restoration project.
 - 1. Pointing mortar should be approximately one part white Portland cement, two parts lime, and six parts aggregate. Adjust proportions as necessary to provide mortar that matches existing.
- B. Prehydrating Pointing Mortar: Thoroughly mix cementitious and aggregate materials together before adding any water. Then mix again adding only enough water to produce a damp, unworkable mix that will retain its form when pressed into a ball. Maintain mortar in this dampened condition for 1 to 2 hours. Add remaining water in small portions until reaching mortar of desired consistency.
- C. Mixing Procedures: Use method of measuring materials at job so that specified proportions of mortar materials can be accurately controlled. Measurement by shovel count is not acceptable. Maintain records of mix for future batches to ensure consistency.
 - 1. Except as otherwise acceptable for small batches, do mixing in mechanically operated batch mixers of drum type in which water plus additive can be accurately controlled. Allow at least two minutes for mixing dry materials, and three minutes after water has been added. Do not exceed manufacturer's rated capacity for mixing drum. Empty drum and cleanout completely before starting next batch.
 - 2. Mix mortar to a slightly dry consistency suitable for packing into joints.
 - 3. Prepare mortar in batches that will be used up before initial set takes place or before 45 minutes passes from time of mixing. In hot or dry weather, confine batches to smaller quantities that can be used up in shorter time period. Do not retemper or use partially hardened material.
 - 4. Anti-freeze compounds air entrainment and other admixtures are prohibited.
 - 5. Add mortar pigments to produce colors required.

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PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas and conditions under which work is to be done. Do not proceed with work until unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. General: Comply with chemical cleaner manufacturer's written instructions for protecting building surfaces against damage from exposure to their products.
- B. Protect persons, motor vehicles, surrounding surfaces of building being restored, building site, plants, and surrounding buildings from injury resulting from stone restoration work.
- C. Prevent chemical cleaning solutions from coming into contact with pedestrians, motor vehicles, landscaping, buildings, and other surfaces that could be injured by such contact.
- D. Do not clean stone during winds of sufficient force to spread cleaning solutions to unprotected surfaces.
- E. Neutralize and collect alkaline and acid wastes for disposal off Owner's property.
- F. Dispose of runoff from cleaning operations by legal means and in a manner that prevents soil erosion, undermining of paving and foundations, damage to landscaping, and water penetration into building interiors.
- G. Erect temporary protection covers over pedestrian walkways and at points of entrance and exit for persons and vehicles that must remain in operation during course of stone restoration work.
- H. Protect adjacent surfaces from contact with chemical cleaners by covering them with a liquid strippable masking agent or polyethylene film and waterproof masking tape. Apply masking agent to comply with manufacturer's written instructions. Do not apply liquid masking agent to painted or porous surfaces

3.03 MASONRY CONTROL JOINTS

- A. Joints between masonry and frames of openings that were previously caulked shall be examined and where existing caulking has broken bond or split open, such material shall be completely removed from entire opening, cleaning existing residue from sides of joint.
- B. Remove caulking, if any, and deteriorated mortar from joints between masonry and lintels.
- C. Joints to receive sealant shall be clean and dry. Remove dirt and dust.

3.04 CLEANING MASONRY, GENERAL

- A. Proceed with cleaning in an orderly manner; work from top to bottom of each scaffold width and from one end of each elevation to the other. Work from bottom to top of the building for each scaffold drop.

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- B. Use only those cleaning methods indicated for each masonry material and location.
 - 1. Use natural-fiber brushes only.
- C. Use spray equipment that provides controlled application at volume and pressure indicated, measured at spray tip. Adjust pressure and volume to ensure that cleaning methods do not damage masonry.
 - 1. Equip units with pressure gages.
- D. For chemical cleaner spray application, use a low-pressure tank or chemical pump suitable for chemical cleaner indicated, equipped with a cone-shaped spray tip.
- E. For water spray application, use a fan-shaped spray tip that disperses water at an angle of 25 to 50 degrees.
- F. For heated water spray application, use equipment capable of maintaining temperature between 140 - 160 deg F (60 - 71 deg C) at flow rates indicated.
- G. Perform each cleaning method indicated in a manner that results in uniform coverage of all surfaces, including corners, moldings, and interstices, and that produces an even effect without streaking or damaging masonry surfaces.
- H. Removing Plant Growth: Completely remove plant, moss, and shrub growth from masonry surfaces. Carefully remove plants, creepers, and vegetation by cutting at roots and allowing to dry for two to three weeks before removal. Remove loose soil and debris from open masonry joints to whatever depth they occur.
 - 1. Apply ammonium sulfamate or another acceptable root-killing material to plant roots according to manufacturer's written instructions. Do not apply materials to plants that are to remain.
- I. Water Application Methods: Where water application methods are indicated, comply with the following:
 - 1. Spray Applications: Spray apply water to masonry surfaces to comply with requirements indicated for location, purpose, water temperature, pressure, volume, and equipment. Unless otherwise indicated, hold spray nozzle at least 6 inches (150 mm) from surface of masonry and apply water from side to side in overlapping bands to produce uniform coverage and an even effect.
- J. Chemical Cleaner Application Methods: Apply chemical cleaners to masonry surfaces to comply with chemical cleaner manufacturer's written instructions; use brush or spray application methods, at Contractor's option, unless otherwise indicated. Do not allow chemicals to remain on surface for periods longer than those indicated or recommended by manufacturer.
 - 1. Spray Application: Apply chemical cleaners at pressures not exceeding 50 psi (345 kPa), unless otherwise indicated.
 - 2. Reapplying Chemical Cleaners: Do not apply chemical cleaners to same masonry surfaces more than twice. If additional cleaning is required, use a steam wash.
- K. Rinse off chemical residue and soil by working upward from bottom to top of each treated area at each stage or scaffold setting.

3.05 REBUILDING MASONRY

- A. Carefully dismantle masonry indicated to be rebuilt. Dismantle in small sections using care to prevent damage to stone. Remove mortar from units, clean, and neatly stack salvaged

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materials on scaffolding. Provide additional stone as needed to replace stone damaged beyond repair.

- B. Wet stone. Use wetting methods which ensure each clay masonry unit being nearly saturated but surface dry when laid. A recommended method is to completely saturate stacked units using a garden hose and covering stack with breathable tarpaulin cover at the end of each working day. Adjust procedure as required to provide specified results.
- C. Cut stone using motor-driven saws to provide clean, sharp, unchipped edges. Cut units as required to provide continuous patterns. Use full-size units without cutting where possible.
- D. Lay-up masonry plumb and true, and with courses level, accurately spaced and coordinated with other construction.
- E. Maintain matching joint widths unless otherwise indicated, except for minor variations required to maintain bond alignment.
- F. Stopping and Resuming Work: Rack back 1/2-unit length in each course; do not tooth. Clean exposed surfaces at set masonry, wet units lightly (if required) and remove loose masonry units and mortar prior to laying fresh masonry.
- G. Rake exposed joints to match existing
- H. Remove masonry units disturbed after laying; clean and reset in fresh mortar.
- I. Install sealants and back-up material in strict accordance with manufacturer's specifications and instructions. Apply back-up material to within 3/8 to 1/2 inch of face of surface to conform to manufacturer's recommendations and to provide 1 to 1 ratio to 2 to 1 ratio between width/depth. Wherever possible, apply caulking materials with gun with nozzle of proper size to fit joint. Drive material into joint to completely fill joint and to obtain watertight condition. Install sealants in neat manner in continuous ribbons without gaps or air pockets, and without wrinkles. Tool sealants to form smooth, uniform beads with slight concave surface with material finished slightly below adjoining surfaces.

3.06 REMOVING MORTAR (MASONRY TO BE REPOINTED)

- A. Defective joint is one containing cracked, loose, or disintegrated mortar; also joint where mortar is solid, but has broken bond with masonry unit on any side.
- B. Remove defective mortar to depth of not less than 3/4 inch from face of stone using a small mason's chisel (no wider than half the width of the joint), or as much as may be necessary to reach reasonably sound backing. Use care to avoid damage to adjacent stone. Power saws may be used on horizontal bed joints. Use hand chisels on vertical (head) joints. Remove loose mortar, dust and dirt by brushing and blowing with compressed air followed by water rinsing.
- C. Cut out spalled, cracked and eroded stone and thoroughly clean remaining surfaces in pocket created, removing mortar, mortar slivers, dust and dirt.

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3.07 POINTING MASONRY

- A. Dampen the joints to be pointed with water from a hand held spray bottle. Allow water to soak into wall so joints are not visibly wet.
- B. Pack mortar into deep areas of joints first. Follow with a 1/4 inch thick layer of mortar along the back of the entire joint. Build mortar out in 1/4 inch thick layers until mortar is almost flush with surface of wall. Allow joint to set to thumb print hardness before tooling. Tool joints to recess slightly and match tooling of existing joints. Do not feather edges of mortar joints of weathered edge stone or allow mortar on face of stone.
- C. Replace defective stone with structurally sound and clean used face stone salvaged from other areas of project. Provide new units if sufficient quantity of stone is not available. Visually match and blend replacement units to match existing in size, color and texture. Lay replacement units in full mortar on all sides.

3.08 FINAL CLEANING

- A. After mortar has fully hardened, thoroughly clean exposed masonry surfaces of excess mortar and foreign matter; use wood scrapers, stiff-nylon or -fiber brushes, and clean water, spray applied at low pressure.
 - 1. Do not use metal scrapers or brushes.
 - 2. Do not use acidic or alkaline cleaners.
- B. Wash adjacent woodwork and other non-masonry surfaces. Use detergent and soft brushes or cloths.
- C. Clean masonry debris from roof; remove debris from gutters and downspouts. Rinse off roof and flush gutters and downspouts.
- D. Sweep and rake adjacent pavement and grounds to remove masonry debris. Where necessary, pressure wash surfaces to remove mortar, dust, dirt, and stains.

END OF SECTION 04 10 20

SECTION 11 68 00

PLAYGROUND EQUIPMENT

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:
- B. Playground equipment and associated signage. Furnish all labor and materials and equipment required to install the play equipment as indicated on the drawings or specified herein. The work shall include any incidentals to provide a finished job.

1.3 DEFINITIONS

- A. IPEMA: International Play Equipment Manufacturers Association.
- B. Play Event: A piece of playground equipment that supports one or more play activities.
- C. Use Zone: Area under and around a play event within which the ground surfacing must meet fall impact attenuation requirements of ASTM F1292 when tested at the fall height specified for the play event.
- D. Fall Height: Vertical distance between the finished elevation of the designated play surface and the finished elevation of the protective surfacing beneath it, as defined in ASTM F1487.
- E. Protective Surfacing: Resilient ground surfacing. The characteristics of the protective surfacing are based on the fall height of the playground equipment. Changes in either the surfacing or the fall height, particularly reducing the resilience of the protective surfacing or increasing the fall height, will reduce safety-related performance.
- F. Subgrade: Surface of the ground on which the protective surfacing is installed; the subbase for the protective surfacing is installed over the subgrade.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene a meeting one week before starting earthwork for playground to discuss coordination between various installers.
 - 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

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- b. Installer
- c. Manufacturer/Fabricator Representative
- d. Other affected Subcontractors
- e. Owner

- 4. Record minutes and distribute copies within 5 days after meeting to participants as well as those affected by decisions made.

1.5 EQUIPMENT PRE-PURCHASE

- A. The City is separately purchasing play equipment from multiple manufacturers – purchase of this equipment should NOT be included in the contractor's bid price. Refer to section 2.4 for the list of equipment purchase by City.
- B. Once the bid is awarded and the construction contract is executed, responsibility for the purchase will be assigned to the contractor who will then fully manage all aspects of the procurement from that time forward including arranging for delivery, verification of equipment received, storage on or off-site of equipment, installation of equipment, post-installation manufacturer inspection for ASTM compliance, etc. Direct payment to manufacturers for the equipment will be made by the City once the contractor verifies all material are received and undamaged.

1.6 SUBMITTALS

- A. See Section 01 30 00 for submittal procedures.
- B. Product Data: For manufactured equipment, provide manufacturer's product data showing materials of construction, compliance with specified standards, installation procedures, safety limitations, and the number of users permitted.
- C. Delegated-Design Submittal: For all Project specific "fabricated" Structures including foundations and all associated materials and components. Submittal to include, shop drawings and analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- D. Shop Drawings: For each type of playground equipment.
 - 1. Include plans, elevations, sections, and attachment details.
 - a. Manufacturer approved drawings may be submitted when complete systems are provided by specified manufacturer.
 - 2. Include fall heights and use zones for playground equipment, coordinated with the critical-height values of protective surfacing specified in Section 32 18 00 "Playground Surface System".
- E. Samples: For each item that a color must be selected, provide color chart showing full range of colors and finishes and material sample.
- F. Maintenance Data: Provide manufacturer's recommended maintenance instructions and list of replaceable parts for each equipment item, with address and phone number of source of supply.
- G. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

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H. Test Reports: Provide evidence of IPEMA certification for playground products.

I. Certifications:

1. Manufacturer is ISO 9001:2008 certified (quality assurance processes)
2. Manufacturer is ISO 14001:2004 certified (environmentally responsible processes)
3. IPEMA (International Play Equipment Manufacturers Association) third party certification for conformance to ASTM F1487-17.
4. Statement from manufacturer that products meet current safety and accessibility requirements.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Manufacturer is ISO 9001:2008 certified (quality assurance processes)
2. Manufacturer is ISO 14001:2004 certified (environmentally responsible processes)
3. Standard products are IPEMA (International Play Equipment Manufacturers Association) third party certified for conformance to ASTM F1487-17.

B. Installer Qualifications: The Contractor installing the equipment must be experienced in the installation of play equipment with personnel, facilities, and equipment adequate for the work specified and shall, within 48 hours of a request, produce written proof of such.

C. Sample Installations: Contractor shall upon request produce a list of at least 20 other projects where similar work, from same manufacturer, has been performed and could be reviewed.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver, handle, and store equipment to project site in accordance with manufacturer's recommendations.

B. Store materials in a dry, covered area, elevated above grade.

1.9 WARRANTY

A. See Section 01 74 00 for additional warranty requirements.

B. Installers Guarantee: The Contractor shall warranty that all work performed under this section shall be free from any defects in materials and workmanship. Upon notice in writing from the Owner within one year of Preliminary Acceptance of the project, the Contractor shall, at no additional cost to the Owner, make the necessary repairs or replacements of the defective work in question. During this period of guarantee, the Owner shall perform normal maintenance and cleaning of the play area equipment.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers:

1. Playworld Systems, Inc. 1000 Buffalo Road, Lewisburg, PA 17837-9795, 1-800-233-8404.

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2. Landscape Structures, Inc., 601 7th Street South, Delano, MN 55328. 1-800-526-6197.

2.2 PLAYGROUND EQUIPMENT - GENERAL

- A. Design Assumptions: Because the safety of the playground depends on strict conformance to the design criteria, this information is provided for Contractor's information. Equipment design/component selection is based on specific needs of the physical constraints of the site, and public input. Design requirements include:
 1. Play value
 2. Capacity
 3. Footprint
 4. Color availability
 5. Visual density and appearance
 6. Age appropriateness
 7. Height/Size
 8. Sensory stimulation
 9. Accessibility/usability for those with special needs.
 10. If deviations from specified dimensions, especially fall heights, is required, obtain approval prior to proceeding; follow approval request procedure as specified for substitutions.
- B. Mount equipment on concrete footings, unless otherwise indicated.
 1. Playground protective surfacing constitutes a resilient layer installed over a subbase (non-resilient) that is installed over subgrade; top of footings and anchorage devices is to be covered by full depth of resilient portion of protective surfacing.
 2. Protective Surfacing Depth: As indicated on drawings.
 3. Provide supports as required to mount equipment at proper height above finish and subgrades to allow installation of sufficient depth of protective surfacing; portion of support below top of surfacing must conform to specified requirements for equipment.
 4. Paint portion of support that is intended to be installed below top surface of protective surfacing a different color, or mark in other permanent way, so that installers and maintainers of protective surfacing can easily determine whether sufficient depth has been installed.
- C. Provide permanent label for each equipment item stating age group that equipment was designed for, manufacturer identification, and warning labels in accordance with ASTM F1487.
- D. Conform to ASTM F1487 and CPSC Pub. No. 325; provide equipment conforming to specific requirements for relevant age group(s).
- E. Provide components having factory-drilled holes; do not use components with extra holes that will not be filled by hardware or covered by other components.

2.3 COMPONENTS

- A. Basis of Design:

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1. Burnham Shores
 - a. Playworld Systems, Inc

<u>QTY.</u>	<u>NO.</u>	<u>DESCRIPTION</u>
8	ZZCH0018	3.5in OD x 124in STEEL POST W/RIVETED CAP
4	ZZCH0028	3.5in OD x 136in STEEL POST W/ RIVETEDCAP
1	ZZCH0616	SQUARE COATED DECK ASSEMBLY
1	ZZCH0629	LONG COATED DECK ASSEMBLY
1	ZZCH0636	DOUBLE SLIDE COATED DECK ASSEMBLY
1	ZZCH2727	TWIST AND SHOUT (48in DECK)
1	ZZCH3006	30in ROUND TUBE SLIDE ENTRANCE/EXIT
1	ZZCH3129	90 DEGREE GLIDE SLIDE (36in DECK)
2	ZZCH4293	CIRCLES PANEL
1	ZZCH4408	ACCESSIBLE BUGS PANEL
1	ZZCH4467	GROUND TO GROUND BABBLE-ON
1	ZZCH4556	7in BELL (POST MOUNT)
1	ZZCH4558	9in BELL (POST MOUNT)
1	ZZCH4671	CH PANEL FRAME- DECK LEVEL
1	ZZCH6987	CLIFF HANGER (INCLINED) (48in DECK)
1	ZZCH7087	CLIMBING SQUARES BLOCK CLIMBER (36in)
1	ZZCH8110	BEANSTALK CLIMBER (48in DECK)
1	ZZCH9168	12in ACCESS STEPPED PLATFORM (DECK TO DECK)
5	ZZPM0016	5in OD X 120in STEEL POST W/ RIVETED CAP
5	ZZPM0036	5in OD X 144in STEEL POST W/ RIVETED CAP
6	ZZPM0036GZ	5in OD X 144in STEEL POST (GROUND ZERO)
2	ZZPM0056	5in OD X 168in STEEL POST W/ RIVETED CAP
3	ZZPM0056GZ	5in OD X 168in STEEL POST W/ CAP (GROUND ZERO)
5	ZZPM0066	5in OD X 180in STEEL POST W/ RIVETED CAP
2	ZZPM0078	5in OD x 205in STEEL POST W/RIVETED CAP
2	ZZPM0128	5in OD x 192in STEEL POST W/RIVETED CAP
3	ZZPM0247	5in OD x 201in SWAGED STEEL POST
1	ZZPM0297	POST W/ LADDER CLIMBER (36in OR 48in DECK)
1	ZZPM0617	TRIANGULAR COATED DECK ASSEMBLY
1	ZZPM0618	1/2 HEX COATED DECK ASSEMBLY
1	ZZPM0619	HEX COATED DECK ASSEMBLY
2	ZZPM0629	LONG COATED DECK ASSEMBLY
2	ZZPM0639	45 DEGREE TRI COATED DECK ASSEMBLY
2	ZZPM0860	36in DECK STEEL FILLER POST (PM)
1	ZZPM3424	DYNAMIC DESCENT SLIDE - BALCONY ENT/SLIDE A SIDE EXIT
1	ZZPM3537	SLIDE- NUVO 360 SPIRAL SLIDE
1	ZZPM4288	ACCESS GATE
1	ZZPM4292	FLOWER POWER PANEL
1	ZZPM4328	ANIMAL LOCATOR PANEL
4	ZZPM4451	KINETIC TOPPER- STRAIGHT CLAMPS
1	ZZPM4547	SCAVENGER HUNT (GROUND LEVEL)
2	ZZPM4578	ANYWHERE SEAT
1	ZZPM4587	DRUM PANEL (GROUND LEVEL)
2	ZZPM4671	PM PANEL FRAME- DECK LEVEL

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<u>QTY.</u>	<u>NO.</u>	<u>DESCRIPTION</u>
1	ZZPM4687	SKYLIGHT
1	ZZPM4696	MIGHTY DESCENT
1	ZZPM4896	SLING SEAT
1	ZZPM5001	TIANZI TWIN OVERLAY
1	ZZPM5002	TIANZI TOP ROPE PASS
1	ZZPM5003	TIANZI PITCH CROSSING
1	ZZPM5004	TIANZI TWO-POINT WEDGE
1	ZZPM5007	TIANZI THREE-POINT TRAVERSE - DOUBLE
5	ZZPM5008	STEP AROUND
1	ZZPM6180	18in DECK TO DECK CLIMBER
1	ZZPM6757	5ft GEO CLIMBER
1	ZZPM6988	CLIFF HANGER (INCLINED) (60in DECK)
1	ZZPM7170	8ft TOWER CLIMBER
1	ZZPM7217	36in ROPE ASCENSION
1	ZZPM7536	GROUND TO DECK WHEELCHAIR RAMP W/ BARRIERS (12in RISE)
1	ZZPM8100	BEANSTALK CLIMBER (36in DECK)
1	ZZPM8939	TRANSITION CLIMBER- PLAYMAKER
2	ZZPM9170	24in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)
1	ZZPM9177	36in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)
1	ZZUN1471	INSTALLER HARDWARE KIT
1	ZZUN2019	APPROACH STEP FOR TRANSFER STATION
5	ZZUN2290	COATED DECK TO DECK CONNECTION KIT
1	ZZUN3008	30in ROUND LEFT TUBE SECTION
1	ZZUN3403	DYNAMIC DESCENT SLIDE - LEFT TURN SECTION
2	ZZUN3406	DYNAMIC DESCENT SLIDE - ROLLER
1	ZZUN3411	DYNAMIC DESCENT SUPPORT LEG - 2ft - 6in
1	ZZUN4676	FOUR-THE-WIN INSERT
1	ZZUN4677	VERY BURIED INSERT
1	ZZUN4678	SLIDE & SOLVE INSERT
1	ZZUN7136	UNITY STEPPER - SMALL
4	ZZUN7137	UNITY STEPPER - MEDIUM
1	ZZUN7368	OVERLAPPING BERM CONNECTOR
1	ZZUN8727	PLAYCUBE- GROUND LEVEL
1	ZZUN9500	24in WHEELCHAIR RAMP CENTER SUPPORT
2	ZZXX0260	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL
2	ZZXX0265	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL
1	ZZXX0651	WELCOME SIGN- AGES 2-5
1	ZZXX0652	WELCOME SIGN- AGES 5-12
1	ZZXX0678	LABEL KIT- COMPOSITE STRUCTURE – ASTM
1	ZZXX0843	RISK MANAGEMENT SIGN
1	ZZXX0847	FREESTANDING COMMUNICATION BOARD (DOUBLE) (CH)
1	ZZXX0930	3.5in OD 2-UNIT STEEL ARCH SWING- 8ft TOP RAIL
1	ZZXX0932	3.5in OD STEEL ARCH SWING 2-UNIT ADD-A-BAY
1	ZZXX0940	3.5inOD ARCH SWING ADD-A-BAY (MULTI-USER)
1	ZZXX0972	NAICA6.0V 24.4 X 18.1 X 8.7
1	ZZXX0973	NAICA 4.0R 21.4 X 10.8 X 7.2
1	ZZXX0983	AERIAL GRID NET

2026 PLAYGROUND IMPROVEMENTS
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2. Eggleston Park

a. Landscape Structures, Inc

QTY.	NO.	DESCRIPTION
1	152443A	Grid Walk w/Barriers
1	169318C	Wood Plank Wiggle Ladder 48"Deck w/Recycled Wood-Grain Handholds DB
1	126372B	Vertical Ladder 90*Tri-Deck 48"Dk DB
1	152908C	Deck Link w/Handrails Permalene infill panel 3 Steps
2	145624D	Vertical Ascent 72"Dk
1	CP022807	48" Dk Canyon Climber to NetPlex® 123"OC From 48"deck to NetPlex®
1	CP031996	72" Sunbeam Climber w/Ivy/Vine Pattern and Marbles At Grade .
1	CP004765A	DTR PB 7-Post Netplex w/RPL Wood-Grain Accent Panels
1	CP011635	RPL Mink/Cedar Woodgrain Lumber Panel w/Bongos Above Deck Mink and Cedar RPL
2	CP025998	Wire Barrier w/Grass Accents Above Deck Limon and Leaf proshield colored grass accents bolted on.
1	122197A	90* Triangular Tenderdeck
1	121948A	Kick Plate 8"Rise
1	111230A	Square Deck Corner
3	111229A	Square Deck Extension
1	111228A	Square Tenderdeck
1	185852A	Transfer Step w/2 Handloops DB
2	111231A	Triangular Tenderdeck
1	271912A	Skyport Climber w/Alpine Slide 7-Post DB Only ¹
1	120901A	Grab Bar
1	362348A	HomeBase Square Belt
1	373136A	Rocker Seat
2	111404G	100"Alum Post DB
1	111405A	106"Alum Flush Post w/Standard Cap DB
3	111404D	124"Alum Post DB
2	111404C	132"Alum Post DB
4	111404A	148"Alum Post DB
2	111404M	148"Steel Post DB
3	111403N	158"Steel Post For Roof DB
1	111404H	92"Alum Post DB
2	375412B	Petal Canopy Curved Post 1 Petal
1	375412B	Petal Canopy Curved Post 2 Petal
1	130390A	Double Swoosh Slide 72"Dk DB1
1	169317B	Firepole w/Recycled Wood-Grain Handholds 56"Dk DB
1	182503C	Welcome Sign (LSI Provided) Ages 5-12 years Direct Bury

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3. Snyder Tot-Lot

a. Landscape Structures, Inc.

<u>QTY.</u>	<u>NO.</u>	<u>DESCRIPTION</u>
1	173591A	OmniSpin Spinner Surface Mount ¹
1	186490A	We-saw DB Only ¹

b. Playworld Systems, Inc

<u>QTY.</u>	<u>NO.</u>	<u>DESCRIPTION</u>
4	ZZCH0018	3.5in OD x 124in STEEL POST W/ RIVETED CAP
7	ZZCH0028	3.5in OD x 136in STEEL POST W/ RIVETED CAP
2	ZZCH0038	3.5in OD x 148in STEEL POST W/ RIVETED CAP
1	ZZCH0048	3.5in OD x 160in STEEL POST W/ RIVETED CAP
2	ZZCH0069	3.5in OD x 184in STEEL POST W/O CAP
1	ZZCH0077	3.5in OD x 200in STEEL POST W/O CAP
1	ZZCH0616	SQUARE COATED DECK ASSEMBLY
6	ZZCH0617	TRIANGULAR COATED DECK ASSEMBLY
1	ZZCH0626	CENTER OBLONG COATED DECK ASSEMBLY
1	ZZCH0637	1/2 HEX COATED DECK W/O CENTER POST ASSEMBLY
2	ZZCH2530	12in DECK TO DECK KICK PLATE
1	ZZCH2727	TWIST AND SHOUT (48in DECK)
1	ZZCH3421	DYNAMIC DESCENT SLIDE - ENTRANCE & EXIT
1	ZZCH3537	SLIDE- NUVO 360 SPIRAL SLIDE
1	ZZCH4095	CENTERLINE PIPE WALL BARRIER
1	ZZCH4288	ACCESS GATE
1	ZZCH4396	ACCESSIBLE MAZE PANEL
1	ZZCH4557	8in BELL (POST MOUNT)
2	ZZCH4578	ANYWHERE SEAT
1	ZZCH4646	STORE FRONT PANEL
3	ZZCH4709	KINETIC FLAG
1	ZZCH5780	6ft HORIZONTAL LOOP LADDER
1	ZZCH5950	OVERHEAD EVENT ACCESS LADDER (12in DECK)
2	ZZCH6086	DECK MOUNT SKY PANEL FOR ACTIVITY INSERT
1	ZZCH7658	SOLAR CLIMBER (48in & 42in DECK)
1	ZZCH8120	BEANSTALK CLIMBER (60in DECK)
1	ZZUN1471	INSTALLER HARDWARE KIT
1	ZZUN2019	APPROACH STEP FOR TRANSFER STATION
5	ZZUN2290	COATED DECK TO DECK CONNECTION KIT
2	ZZUN3406	DYNAMIC DESCENT SLIDE – ROLLER SECTION
1	ZZUN4677	VERY BURIED INSERT
1	ZZUN4679	MAGICAL MUSIC INSERT
3	ZZUN4711	KINETIC FLAG INSERT (COLOR POLYCARB)
1	ZZXX0260	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL
2	ZZXX0265	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL
1	ZZXX0651	WELCOM SIGN- AGES 2-5
1	ZZXX0678	LABEL KIT- COMPOSITE STRUCTURE - ASTM
1	ZZXX0818	8ft SINGLE POST SWING ASSEMBLY
1	ZZXX0819	8ft SINGLE POST SWING ADD-A-BAY
1	ZZXX0848	FREESTANDING COMMUNICATION BOARD (DOUBLE) (CH)
1	ZZXX0892	ACCESSIBLE SWING SEAT- 8ft TOP RAIL

2026 PLAYGROUND IMPROVEMENTS
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PART 3 - EXECUTION

3.1 VERIFICATION OF CONDITIONS

- A. Verify that playground equipment footings have been installed in proper locations and at proper elevations.
- B. Verify location of underground utilities and facilities in playground area; damage to underground utilities and facilities will be repaired at Contractor's expense.

3.2 EXAMINATION

- A. Examine the area and conditions of the site. Verify safety zones of all equipment before setting posts in concrete footing.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 PREPARATION

- A. Stake location of playground elements, including Use Zone perimeters, perimeter of protective surfacing, access and egress points, hard surfaces, walls, fences, and structures, and planting locations.
- B. Stake layout of entire Use Zone perimeter before starting any work and before subbase under resilient surfacing is laid.
 - 1. Verify that Use Zone perimeters do not overlap hard surfaces, whether currently installed or not.
 - 2. Verify that Use Zones are free of obstructions that would extend into resilient portion of protective surfacing.
 - 3. If conflicts or obstructions exist, notify Owner.
 - 4. Do not proceed until revised drawings have been provided, showing corrected layout, and obstructions have been removed.

3.4 INSTALLATION:

- A. Coordinate work with preparation for and installation of protective surfacing specified in Section 32 18 00; install protective surfacing after playground equipment installation.
- B. Install concrete footings with top surface a minimum of 1/2 inch below required subgrade elevation.
- C. Install in accordance with CPSC Pub. No. 325, ASTM F1487, manufacturer's instructions, and requirements of authorities having jurisdiction (AHJ).
- D. Anchor equipment securely below bottom elevation of resilient surfacing layer.
- E. Install without sharp points, edges or protrusions, entanglement hazards, pinch, crush, or shear points.
- F. Do not modify play events on site without written approval of manufacturer.

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- G. Install required signage if not factory-installed.

3.5 FIELD QUALITY CONTROL

- A. Obtain the services of the equipment manufacturer's field representative to review the finished installation for compliance with specified requirements and with design criteria; submit report of field review and make any/all required corrections before opening playground for public use.
- B. Repair or replace rejected work until compliance is achieved.

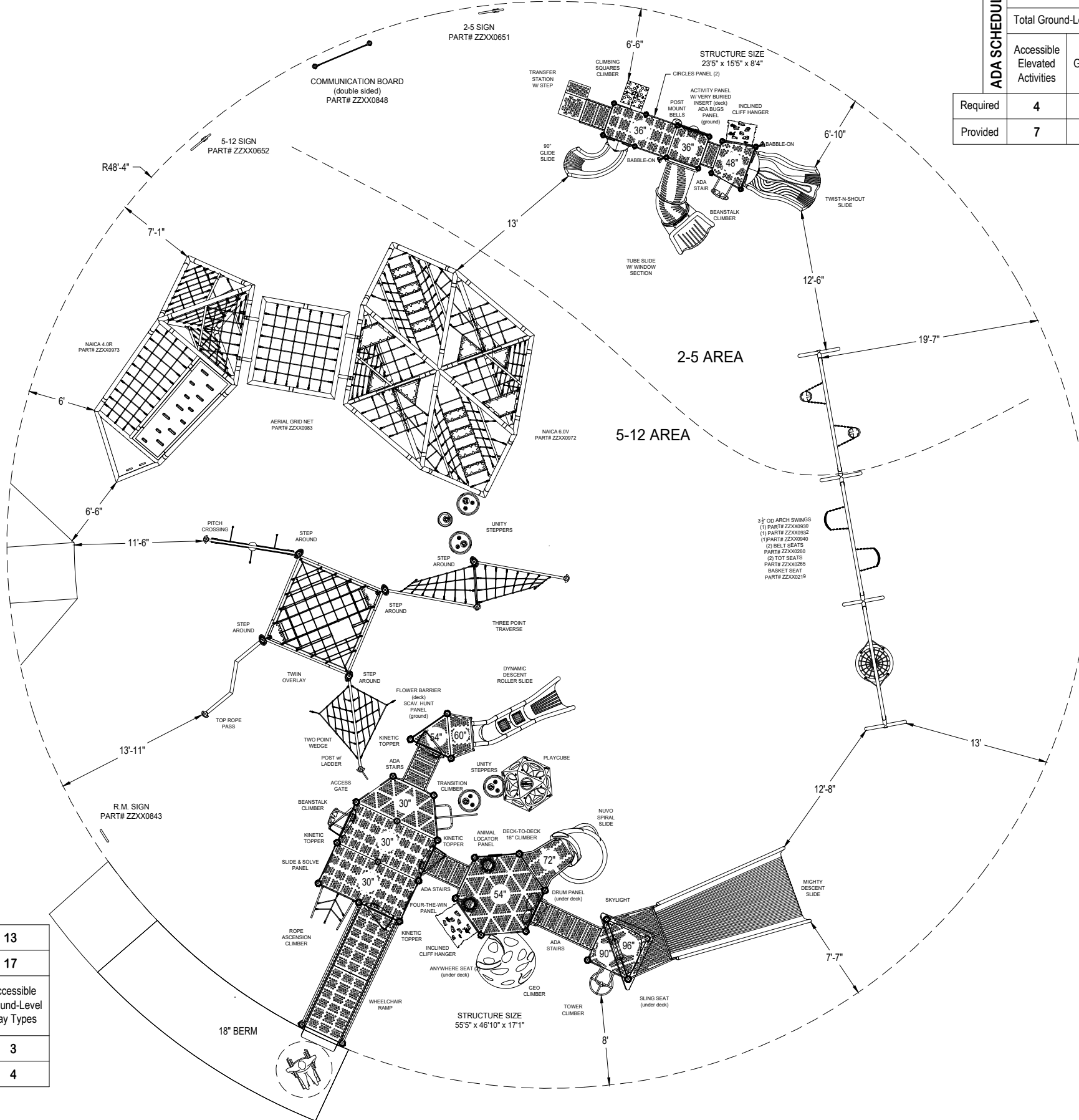
3.6 CLEANING

- A. Restore adjacent existing areas that have been damaged from the construction.
- B. Clean playground equipment of construction materials, dirt, stains, filings, and blemishes due to shipment or installation; clean in accordance with manufacturer's instructions, using cleaning agents as recommended by manufacturer.
- C. Clean playground area of excess construction materials, debris, and waste.
- D. Remove excess and waste material and dispose of off-site in accordance with requirements of authorities having jurisdiction.

3.7 PROTECTION

- A. Protect installed products until Date of Preliminary Acceptance.
- B. Replace damaged products before Date of Preliminary Acceptance.

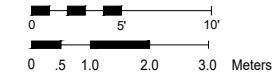
END OF SECTION 11 68 00



ADA SCHEDULE	Total Elevated Play Activities: 7		
	Total Ground-Level Play Activities: 5		
	Accessible Elevated Activities	Accessible Ground-Level Activities	Accessible Ground-Level Play Types
Required	4	2	2
Provided	7	5	4

ADA SCHEDULE	Total Elevated Play Activities: 13		
	Total Ground-Level Play Activities: 17		
	Accessible Elevated Activities	Accessible Ground-Level Activities	Accessible Ground-Level Play Types
Required	7	4	3
Provided	11	13	4

*PLAYGROUND SUPERVISION REQUIRED



IMAGINE NATION, LLC
 Inspired Outdoor Spaces
 WBE Certified
 Phone: 847.640.0904
 www.imagineparks.com

EQUIPMENT SIZE:
SEE DWG

USE ZONE:
R 48'-4"

AREA: **7,327 SqFt.** PERIMETER: **304 Ft.**

FALL HEIGHT:
8 Ft.

USER CAPACITY: **202** AGE GROUP: **2-12**

- ✓ ASTM F1487-25
- ✓ CPSC #325



PROJECT NO:
26-18744B.IMN

SCALE:
3/32"=1'-0"

DRAWN BY:
J.HOUSER

Paper Size

DATE:
20-MAY-2026

B

BURNHAM SHORES
 EVANSTON, ILLINOIS

Burnham Shores Park

Design Number: 26-18744B - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZCH0018	8	3.5in OD x 124in STEEL POST W/RIVETED CAP	Certified	311.28			430	0	8.00	1.00	0
2	ZZCH0028	4	3.5in OD x 136in STEEL POST W/ RIVETED CAP	Certified	174.04			234	0	4.00	0.50	0
3	ZZCH0616	1	SQUARE COATED DECK ASSEMBLY	Certified	54.86			174	3	1.00	0.00	0
4	ZZCH0629	1	LONG COATED DECK ASSEMBLY	Certified	107.02			318	6	1.00	0.00	0
5	ZZCH0636	1	DOUBLE SLIDE COATED DECK ASSEMBLY	Certified	63.86			185	3	1.00	0.00	0
6	ZZCH2727	1	TWIST AND SHOUT (48in DECK)	Certified	183.86			656	4	3.00	0.06	1
7	ZZCH3006	1	30in ROUND TUBE SLIDE ENTRANCE/EXIT	Certified	153.20			847	2	2.00	0.03	1
8	ZZCH3129	1	90 DEGREE GLIDE SLIDE (36in DECK)	Certified	0.00			418	2	2.00	0.03	1
9	ZZCH4293	2	CIRCLES PANEL	Certified	100.00			180	0	1.00	0.00	0
10	ZZCH4408	1	ACCESSIBLE BUGS PANEL	Certified	33.49			234	1	1.00	0.00	1
11	ZZCH4467	1	GROUND TO GROUND BABBLE-ON	Certified	43.15			240	2	1.50	0.00	1
12	ZZCH4556	1	7in BELL (POST MOUNT)	Certified	4.61			41	1	0.25	0.00	1
13	ZZCH4558	1	9in BELL (POST MOUNT)	Certified	6.21			45	1	0.25	0.00	1
14	ZZCH4671	1	CH PANEL FRAME- DECK LEVEL	Certified	32.87			163	0	1.00	0.00	0
15	ZZCH6987	1	CLIFF HANGER (INCLINED) (48in DECK)	Certified	107.60			447	1	2.00	0.06	1
16	ZZCH7087	1	CLIMBING SQUARES BLOCK CLIMBER (36in)	Certified	129.12			437	2	4.00	0.12	1
17	ZZCH8110	1	BEANSTALK CLIMBER (48in DECK)	Certified	77.27			323	2	1.50	0.03	1
18	ZZCH9168	1	12in ACCESS STEPPED PLATFORM (DECK TO DECK)	Certified	70.28			277	1	2.00	0.00	0
19	ZZPM0016	5	5in OD X 120in STEEL POST W/ RIVETED CAP	Certified	335.55			497	0	5.00	0.65	0
20	ZZPM0036	5	5in OD X 144in STEEL POST W/ RIVETED CAP	Certified	404.55			587	0	5.00	0.65	0
21	ZZPM0036GZ	6	5in OD X 144in STEEL POST (GROUND ZERO)	Certified	482.46			704	0	9.00	1.08	0
22	ZZPM0056	2	5in OD X 168in STEEL POST W/ RIVETED CAP	Certified	185.02			271	0	2.00	0.26	0



Burnham Shores Park

Design Number: 26-18744B - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
23	ZZPM0056GZ	3	5in OD X 168in STEEL POST W/ CAP (GROUND ZERO)	Certified	291.03			407	0	3.00	0.54	0
24	ZZPM0066	5	5in OD X 180in STEEL POST W/ RIVETED CAP	Certified	504.05			723	0	5.00	0.65	0
25	ZZPM0078	2	5in OD x 205in STEEL POST W/RIVETED CAP	Certified	230.42			327	0	2.00	0.26	0
26	ZZPM0128	2	5in OD x 192in STEEL POST W/RIVETED CAP	Certified	212.62			307	0	2.00	0.24	0
27	ZZPM0247	3	5in OD x 201in SWAGED STEEL POST	Certified	356.13			463	0	3.00	0.36	0
28	ZZPM0297	1	POST W/ LADDER CLIMBER (36in OR 48in DECK)	Certified	74.81			131	1	0.50	0.13	1
29	ZZPM0617	1	TRIANGULAR COATED DECK ASSEMBLY	Certified	46.40			169	2	1.00	0.00	0
30	ZZPM0618	1	1/2 HEX COATED DECK ASSEMBLY	Certified	111.82			353	5	1.50	0.00	0
31	ZZPM0619	1	HEX COATED DECK ASSEMBLY	Certified	228.72			638	8	2.00	0.00	0
32	ZZPM0629	2	LONG COATED DECK ASSEMBLY	Certified	353.98			816	12	4.00	0.00	0
33	ZZPM0639	2	45 DEGREE TRI COATED DECK ASSEMBLY	Certified	115.80			412	6	2.00	0.00	0
34	ZZPM0860	2	36in DECK STEEL FILLER POST (PM)	Certified	73.64			140	0	1.50	0.26	0
35	ZZPM3424	1	DYNAMIC DESCENT SLIDE - BALCONY ENT/SLIDE A SIDE EXIT	Certified	242.20			631	2	4.50	0.06	1
36	ZZPM3537	1	SLIDE- NUVO 360 SPIRAL SLIDE	Certified	474.70			1,449	2	6.00	0.15	1
37	ZZPM4288	1	ACCESS GATE	Certified	34.38			92	0	0.50	0.00	0
38	ZZPM4292	1	FLOWER POWER PANEL	Certified	66.40			110	0	0.50	0.00	0
39	ZZPM4328	1	ANIMAL LOCATOR PANEL	Certified	61.93			407	2	0.50	0.00	1
40	ZZPM4451	4	KINETIC TOPPER- STRAIGHT CLAMPS	Certified	211.60			1,786	0	12.00	0.00	0
41	ZZPM4547	1	SCAVENGER HUNT (GROUND LEVEL)	Certified	56.54			590	3	2.00	0.00	1
42	ZZPM4578	2	ANYWHERE SEAT	Certified	64.70			186	2	0.50	0.00	2
43	ZZPM4587	1	DRUM PANEL (GROUND LEVEL)	Certified	62.86			486	2	1.00	0.00	1
44	ZZPM4671	2	PM PANEL FRAME- DECK LEVEL	Certified	92.92			411	0	2.00	0.00	0
45	ZZPM4687	1	SKYLIGHT	Certified	149.90			997	0	1.50	0.00	0
46	ZZPM4696	1	MIGHTY DESCENT	Certified	790.60			1,264	8	7.00	0.18	1
47	ZZPM4896	1	SLING SEAT	Certified	11.10			167	1	0.50	0.00	1



Burnham Shores Park

Design Number: 26-18744B - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
48	ZZPM5001	1	TIANZI TWIN OVERLAY	Certified	284.60			3,360	8	2.00	0.00	1
49	ZZPM5002	1	TIANZI TOP ROPE PASS	Certified	98.40			569	2	2.50	0.15	1
50	ZZPM5003	1	TIANZI PITCH CROSSING	Certified	165.30			771	2	4.00	0.15	1
51	ZZPM5004	1	TIANZI TWO-POINT WEDGE	Certified	100.60			715	4	2.50	0.10	1
52	ZZPM5007	1	TIANZI THREE-POINT TRAVERSE - DOUBLE	Certified	172.80			1,066	6	3.00	0.10	1
53	ZZPM5008	5	STEP AROUND	Certified	34.00			536	5	2.50	0.00	5
54	ZZPM6180	1	18in DECK TO DECK CLIMBER	Certified	60.06			174	1	1.00	0.00	1
55	ZZPM6757	1	5ft GEO CLIMBER	Certified	133.86			561	2	2.00	0.09	1
56	ZZPM6988	1	CLIFF HANGER (INCLINED) (60in DECK)	Certified	156.60			624	2	2.50	0.06	1
57	ZZPM7170	1	8ft TOWER CLIMBER	Certified	126.96			277	2	2.00	0.90	1
58	ZZPM7217	1	36in ROPE ASCENSION	Certified	90.43			379	1	3.00	0.18	1
59	ZZPM7536	1	GROUND TO DECK WHEELCHAIR RAMP W/ BARRIERS (12in RISE)	Certified	550.64			1,032	4	3.00	0.00	0
60	ZZPM8100	1	BEANSTALK CLIMBER (36in DECK)	Certified	80.97			287	2	1.50	0.03	1
61	ZZPM8939	1	TRANSITION CLIMBER- PLAYMAKER	Certified	60.14			233	2	2.50	0.00	1
62	ZZPM9170	2	24in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	Certified	349.72			748	4	4.00	0.00	0
63	ZZPM9177	1	36in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	N/A	286.99			640	2	1.50	0.00	0
64	ZZUN1471	1	INSTALLER HARDWARE KIT	N/A	3.90			57	0	0.00	0.00	0
65	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83			72	1	1.00	0.04	0
66	ZZUN2290	5	COATED DECK TO DECK CONNECTION KIT	Certified	1.45			19	0	2.50	0.00	0
67	ZZUN3008	1	30in ROUND LEFT TUBE SECTION	Certified	26.02			181	0	0.25	0.00	0
68	ZZUN3403	1	DYNAMIC DESCENT SLIDE - LEFT TURN SECTION	Certified	18.30			35	0	0.50	0.00	0
69	ZZUN3406	2	DYNAMIC DESCENT SLIDE - ROLLER SECTION	Certified	62.40			1,016	0	1.00	0.00	0
70	ZZUN3411	1	DYNAMIC DESCENT SUPPORT LEG - 2ft - 6in	Certified	15.00			45	0	1.50	0.03	0
71	ZZUN4676	1	FOUR-THE-WIN INSERT	Certified	15.08			278	2	0.25	0.00	1



Burnham Shores Park

Design Number: 26-18744B - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
72	ZZUN4677	1	VERY BURIED INSERT	Certified	17.97			470	2	0.25	0.00	1
73	ZZUN4678	1	SLIDE & SOLVE INSERT	Certified	17.61			761	2	0.25	0.00	1
74	ZZUN7136	1	UNITY STEPPER - SMALL	Certified	29.97			69	1	1.00	0.13	1
75	ZZUN7137	4	UNITY STEPPER - MEDIUM	Certified	218.84			580	4	4.00	0.52	4
76	ZZUN7368	1	OVERLAPPING BERM CONNECTOR	Certified	32.40			686	0	0.50	0.00	0
77	ZZUN8727	1	PLAYCUBE- GROUND LEVEL	Certified	151.90			429	4	1.50	0.12	1
78	ZZUN9500	1	24in WHEELCHAIR RAMP CENTER SUPPORT	Certified	12.33			15	0	0.50	0.06	0
79	ZZXX0260	2	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	17.60			108	2	0.50	0.00	2
80	ZZXX0265	2	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL	Certified	22.62			179	2	0.50	0.00	2
81	ZZXX0651	1	WELCOME SIGN- AGES 2-5	N/A	54.20			119	0	1.00	0.06	0
82	ZZXX0652	1	WELCOME SIGN- AGES 5-12	N/A	54.20			119	0	1.00	0.06	0
83	ZZXX0678	1	LABEL KIT- COMPOSITE STRUCTURE - ASTM	N/A	0.04			0	0	0.08	0.00	0
84	ZZXX0843	1	RISK MANAGEMENT SIGN	N/A	30.33			45	0	1.50	0.06	0
85	ZZXX0848	1	FREESTANDING COMMUNICATION BOARD (DOUBLE) (CH)	N/A	108.00			2,049	0	2.00	0.26	0
86	ZZXX0930	1	3.5in OD 2-UNIT STEEL ARCH SWING- 8ft TOP RAIL	Certified	314.50			91	0	3.00	0.52	0
87	ZZXX0932	1	3.5in OD STEEL ARCH SWING 2-UNIT ADD-A-BAY	Certified	197.70			84	0	2.00	0.26	0
88	ZZXX0940	1	3.5in OD ARCH SWING ADD-A-BAY (MULTI-USER)	Certified	198.90			191	0	2.00	0.26	0
89	ZZXX0972	1	NAICA 6.0V 24.4 X 18.1 X 8.7	Certified	2,374.50			16,937	23	24.00	0.48	1
90	ZZXX0973	1	NAICA 4.0R 21.4 X 10.8 X 7.2	Certified	1,476.50			7,798	17	16.00	0.76	1
91	ZZXX0983	1	AERIAL GRID NET	Certified	220.50			1,282	6	4.00	0.00	1
Totals:					16,460.21	2,906	5,647	66,855	202	235.58	12.68	53
					0 Kg	0 Kg	0 Kg	0 Metric Tons	0 m3			



Burnham Shores Park

Design Number: 26-18744B - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
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ASTM F1487

The lay-out for this custom playscape, design number 26-18744B, has been configured to meet the requirements of the ASTM F1487 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

2010 ADA Standards for Accessible Design

The lay-out was also designed to meet the 2010 Standards published 15-Sep-2010, by the Department of Justice when installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.

Installation Times

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

Carbon Footprint

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

Pre-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

Post-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.

** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.





IMAGINE NATION, LLC
 Inspired Outdoor Spaces
 WBE Certified
 Phone: 847.640.0904
 www.imagineparks.com

EQUIPMENT SIZE:
27' x 20' x 14'

USE ZONE:
49'3" x 84'4"

AREA: **3,155 SqFt.** PERIMETER: **243 Ft.**

FALL HEIGHT:
8 Ft.

USER CAPACITY: **51** AGE GROUP: **2-5**

ADA SCHEDULE	Total Elevated Play Activities: 10		
	Total Ground-Level Play Activities: 13		
	Accessible Elevated Activities	Accessible Ground-Level Activities	Accessible Ground-Level Play Types
Required	5	3	3
Provided	8	11	7

- ASTM F1487-25
- CPSC #325



PROJECT NO:
26-18743B

SCALE:
NTS

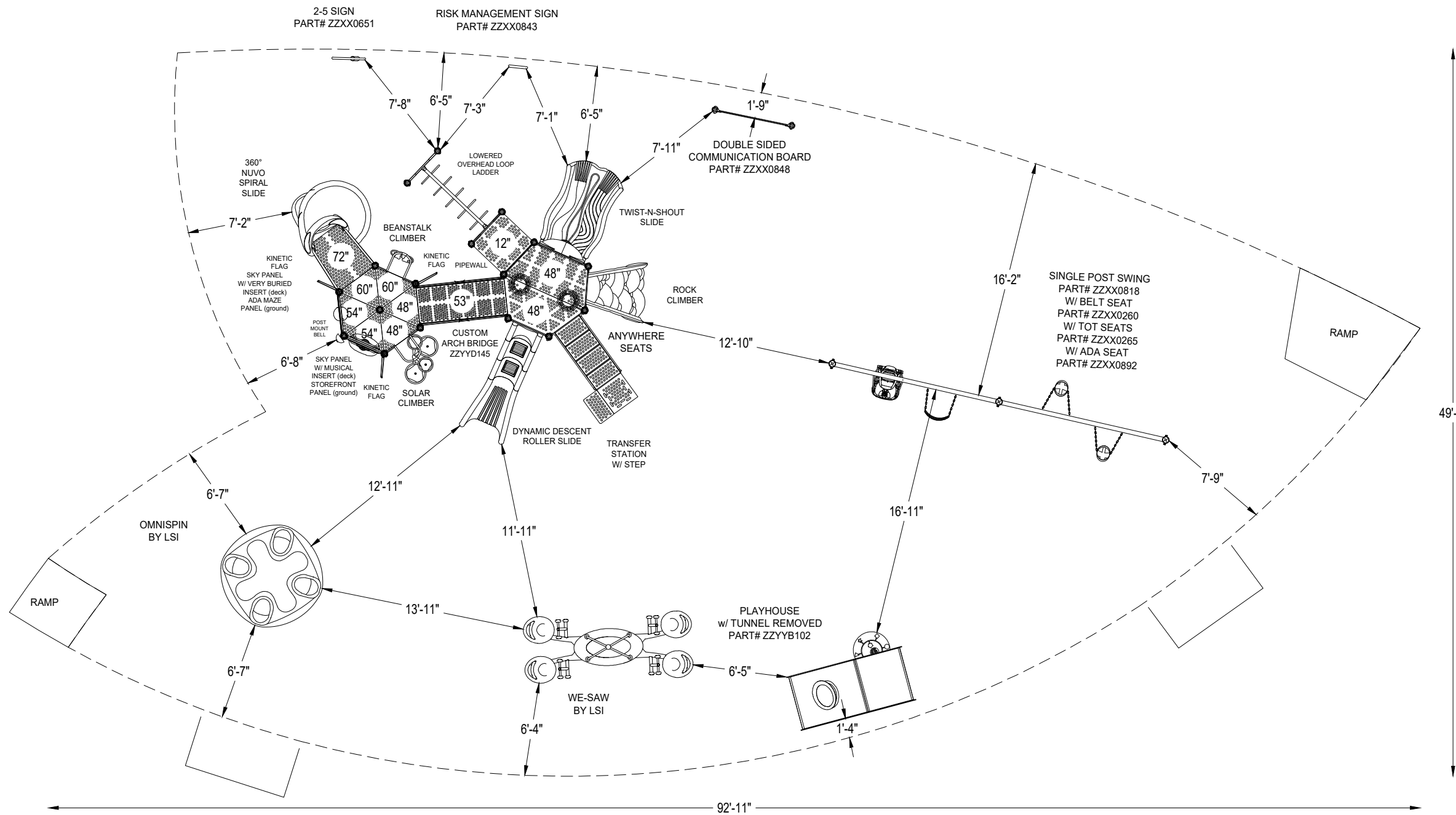
DRAWN BY:
J.HOUSER

Paper Size

DATE:
19-MAY-2026

B

SNYDER PARK
 EVANSTON, IL



*PLAYGROUND SUPERVISION REQUIRED

Snyder Park

Design Number: 26-18743B - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZCH0018	4	3.5in OD x 124in STEEL POST W/RIVETED CAP	Certified	155.64			215	0	4.00	0.50	0
2	ZZCH0028	7	3.5in OD x 136in STEEL POST W/ RIVETED CAP	Certified	304.57			410	0	7.00	0.88	0
3	ZZCH0038	2	3.5in OD x 148in STEEL POST W/ RIVETED CAP	Certified	94.22			127	0	2.00	0.25	0
4	ZZCH0048	1	3.5in OD x 160in STEEL POST W/ RIVETED CAP	Certified	50.21			68	0	1.00	0.13	0
5	ZZCH0069	2	3.5in OD x 184in STEEL POST W/O CAP	Certified	113.42			146	0	2.00	0.25	0
6	ZZCH0077	1	3.5in OD x 200in STEEL POST W/O CAP	Certified	61.01			79	0	1.00	0.13	0
7	ZZCH0616	1	SQUARE COATED DECK ASSEMBLY	Certified	54.86			174	3	1.00	0.00	0
8	ZZCH0617	6	TRIANGULAR COATED DECK ASSEMBLY	Certified	179.40			719	12	6.00	0.00	0
9	ZZCH0626	1	CENTER OBLONG COATED DECK ASSEMBLY	Certified	81.40			222	3	1.00	0.00	0
10	ZZCH0637	1	1/2 HEX COATED DECK W/O CENTER POST ASSEMBLY	N/A	76.86			235	0	1.00	0.00	0
11	ZZCH2530	2	12in DECK TO DECK KICK PLATE	Certified	17.70			33	0	1.00	0.00	0
12	ZZCH2727	1	TWIST AND SHOUT (48in DECK)	Certified	183.86			656	4	3.00	0.06	1
13	ZZCH3421	1	DYNAMIC DESCENT SLIDE - ENTRANCE & EXIT	Certified	96.80			337	2	3.50	0.03	1
14	ZZCH3537	1	SLIDE- NUVO 360 SPIRAL SLIDE	Certified	470.70			1,417	2	6.00	0.15	1
15	ZZCH4095	1	CENTERLINE PIPE WALL BARRIER	Certified	28.74			71	0	0.50	0.00	0
16	ZZCH4288	1	ACCESS GATE	Certified	17.34			65	0	0.50	0.00	0
17	ZZCH4396	1	ACCESSIBLE MAZE PANEL	Certified	17.90			158	1	0.50	0.00	1
18	ZZCH4557	1	8in BELL (POST MOUNT)	Certified	5.15			44	1	0.25	0.00	1
19	ZZCH4578	2	ANYWHERE SEAT	Certified	62.20			179	2	0.50	0.00	2
20	ZZCH4646	1	STORE FRONT PANEL	Certified	33.98			243	3	1.00	0.00	1
21	ZZCH4709	3	KINETIC FLAG	Certified	119.70			393	0	6.00	0.00	0
22	ZZCH5780	1	6ft HORIZONTAL LOOP LADDER	Certified	55.72			124	4	1.00	0.00	1
23	ZZCH5950	1	OVERHEAD EVENT ACCESS LADDER (12in DECK)	Certified	24.62			68	1	1.50	0.06	0



Snyder Park

Design Number: 26-18743B - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
24	ZZCH6086	2	DECK MOUNT SKY PANEL FOR ACTIVITY INSERT	Certified	91.00			435	0	2.00	0.00	0
25	ZZCH7658	1	SOLAR CLIMBER (48in & 42in DECK)	Certified	91.33			265	2	1.50	0.03	1
26	ZZCH8120	1	BEANSTALK CLIMBER (60in DECK)	Certified	85.31			374	2	1.50	0.03	1
27	ZZUN1471	1	INSTALLER HARDWARE KIT	N/A	3.90			57	0	0.00	0.00	0
28	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83			72	1	1.00	0.04	0
29	ZZUN2290	5	COATED DECK TO DECK CONNECTION KIT	Certified	1.45			19	0	2.50	0.00	0
30	ZZUN3406	2	DYNAMIC DESCENT SLIDE - ROLLER SECTION	Certified	62.40			1,016	0	1.00	0.00	0
31	ZZUN4677	1	VERY BURIED INSERT	Certified	17.97			470	2	0.25	0.00	1
32	ZZUN4679	1	MAGICAL MUSIC INSERT	Certified	23.11			941	2	0.25	0.00	1
33	ZZUN4711	3	KINETIC FLAG INSERT (COLOR POLYCARB)	Certified	7.20			402	0	0.75	0.00	0
34	ZZXX0260	1	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	8.80			54	1	0.25	0.00	1
35	ZZXX0265	2	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL	Certified	22.62			179	2	0.50	0.00	2
36	ZZXX0651	1	WELCOME SIGN- AGES 2-5	N/A	54.20			119	0	1.00	0.06	0
37	ZZXX0678	1	LABEL KIT- COMPOSITE STRUCTURE - ASTM	N/A	0.04			0	0	0.08	0.00	0
38	ZZXX0818	1	8ft SINGLE POST SWING ASSEMBLY	N/A	257.68			159	0	2.00	0.24	0
39	ZZXX0819	1	8ft SINGLE POST SWING ADD-A-BAY	N/A	169.58			109	0	2.00	0.12	0
40	ZZXX0843	1	RISK MANAGEMENT SIGN	N/A	30.33			45	0	1.50	0.06	0
41	ZZXX0848	1	FREESTANDING COMMUNICATION BOARD (DOUBLE) (CH)	N/A	108.00			2,049	0	2.00	0.26	0
42	ZZXX0892	1	ACCESSIBLE SWING SEAT- 8ft TOP RAIL	N/A	53.80			314	1	0.50	0.00	1

Totals: 3,430.55 498 971 13,260 51 71.83 3.26 17

0 Kg 0 Kg 0 Kg 0 Metric Tons 0 m3



Snyder Park

Design Number: 26-18743B - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Install Users	Install Hours	Concrete (Yds3)	Active Play Events
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ASTM F1487

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Installation Times

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

Carbon Footprint

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

Pre-Consumer Recycle Content

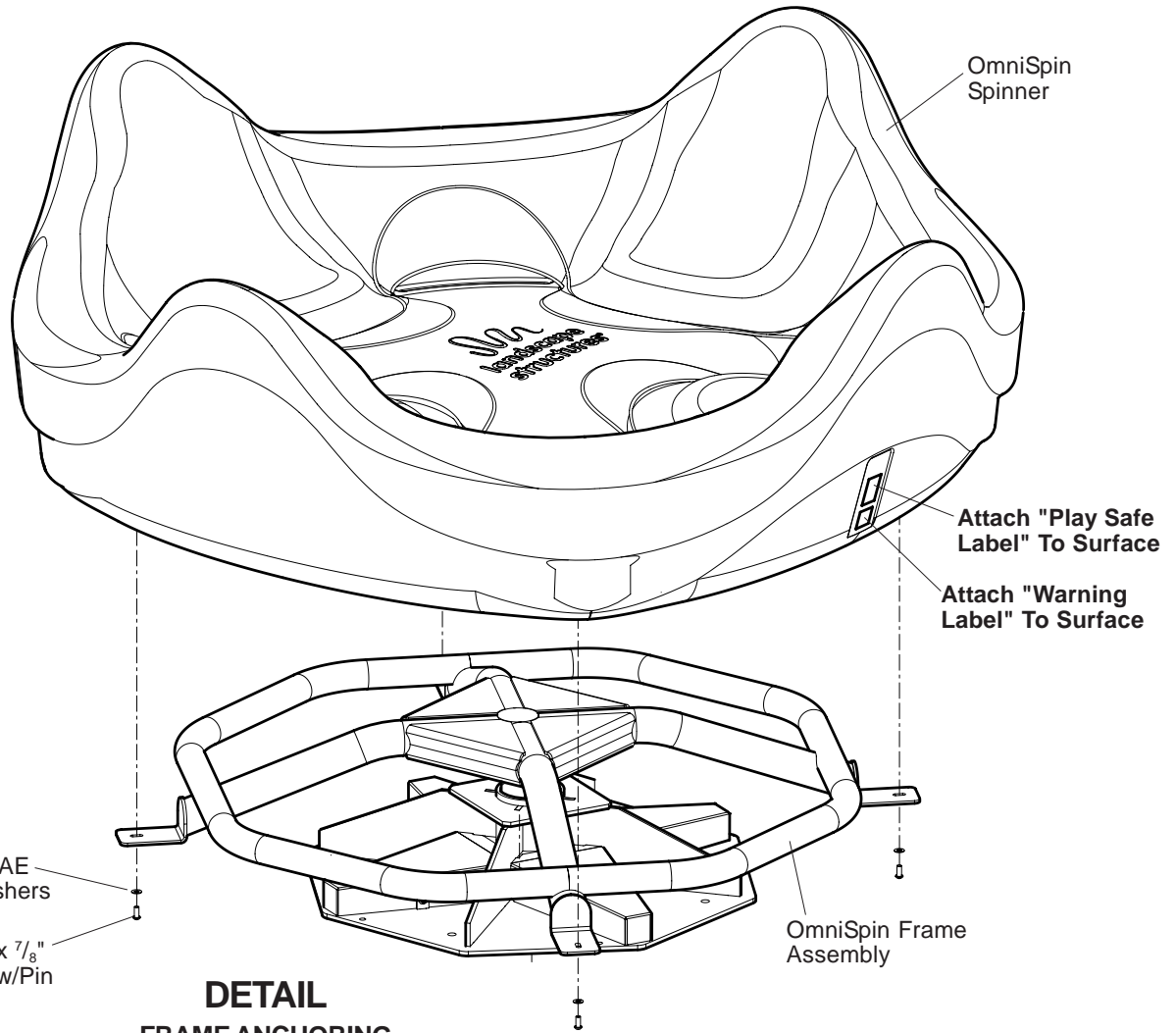
A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

Post-Consumer Recycle Content

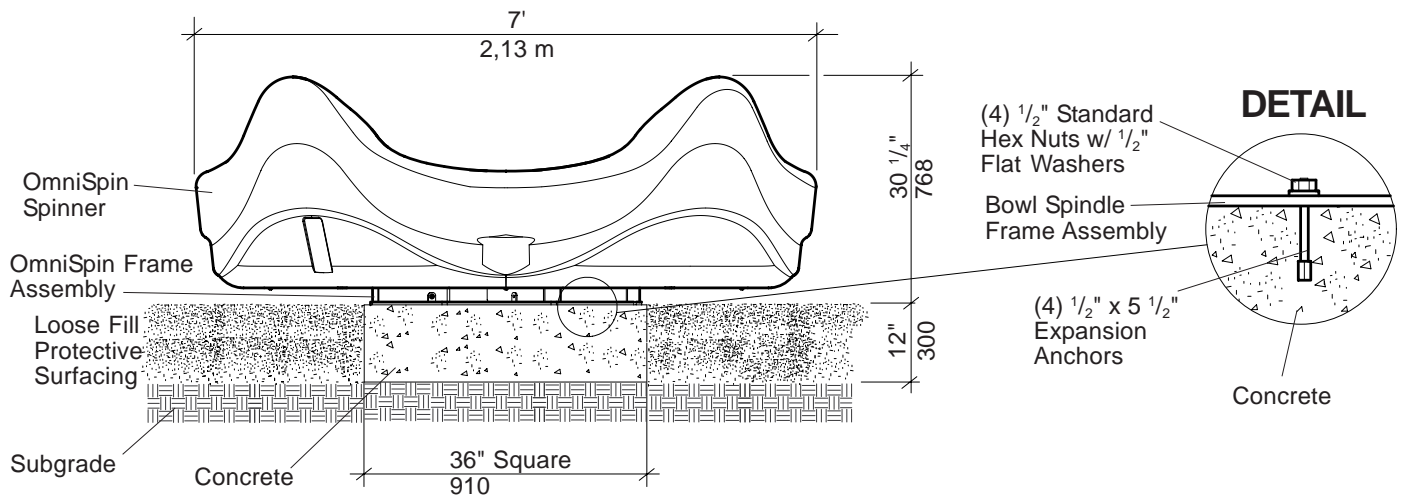
A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.

** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.





**DETAIL
FRAME ANCHORING**



DETAIL



J:\SPECS\183\18384300.P65

Kids in Motion 173591 OmniSpin® Spinner

Parts List

Part#	Description	Qty.
171060-00	OmniSpin Spinner, Specify Color	1
171061-00	OmniSpin Spinner Frame Assy., Black	1
183892-00	OmniSpin Spinner Hardware Package	1
100196-00	3/8" x 7/8" BHCS w/Pin, SST	4
100365-00	3/8" SAE Flat Washer, SST	4
156846-00	Play Safe Label, 2-12 Years	1
183064-00	Warning Label	1
175599-00	4 Hole (SM) Hardware Package	1
100271-00	1/2" x 5 1/2" Expansion Anchor w/Nut/Washer	4

SM = Surface Mount

Specifications

OmniSpin Spinner: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

OmniSpin Spinner

Frame Assembly: (Frame) Weldment comprised of 2.375" O.D. RS20 (.095"-.105" wall) galvanized steel tubing, 2.875" O.D. RS40 (.160"-.170" wall) galvanized steel tubing, 1/4" HR flat steel and 3 1/2" O.D. CF steel bar. (Base) Weldment comprised of 3/8" HRPO sheet steel and 3/16" HRPO sheet steel. (Shock Covers) 16 GA (.060") HRPO sheet steel. (Crank Arms & Pins) Fabricated from stainless steel. (Shocks) Gas shocks with fixed bearings. Finish: ProShield®, black in color.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: (Direct Bury) Concrete Footing - 2 People approx. 3 hours

Assembly - 3 People 1 hour

Concrete: (Direct Bury) 9 cu. ft.

Weight: 499 lbs.

Actual Size: 7' x 7' (2,13 m x 2,13 m)

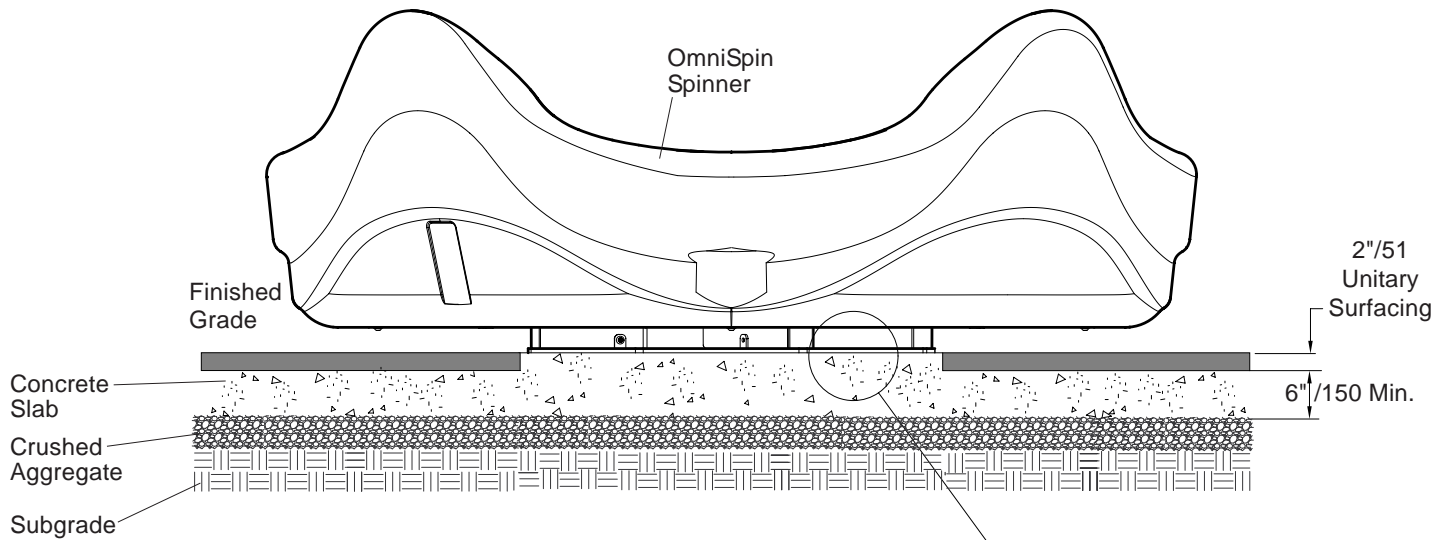
Area Required: 19' x 19' (5,79 m x 5,79 m)

Fall Height: 18" (460 mm)

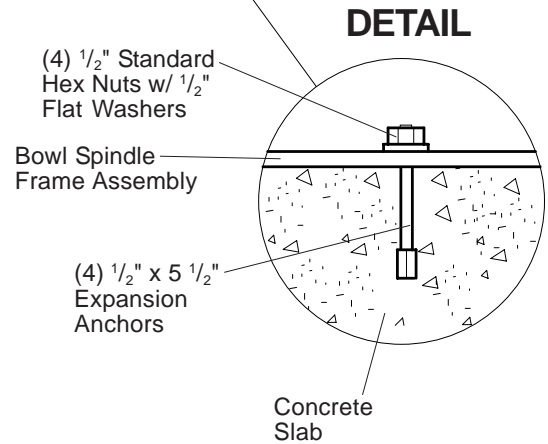
Installation Instructions

- 1) **(Direct Bury)** Build and pour concrete footing. Refer to Frame Anchoring Details. Allow concrete footing to cure for a minimum of 72 hours before continuing.
- 2) With OmniSpin Spinner frame in position, drill through 4 outside holes in OmniSpin Spinner frame 5 1/2" deep into concrete slab, using 1/2" masonry bit and hammer drill. Refer to the Frame Anchoring Detail.
- 3) Tap 1/2" x 5 1/2" expansion anchors into drilled holes and secure using 1/2" standard hex nuts with 1/2" flat washers. Refer to the Frame Anchoring Details.
- 4) Attach OmniSpin Spinner to OmniSpin Spinner frame, using 3/8" x 7/8" BHCS w/pin and 3/8" SAE flat washers.
- 5) Apply labels as shown.
- 6) Install protective surfacing before users are allowed to play on the component.

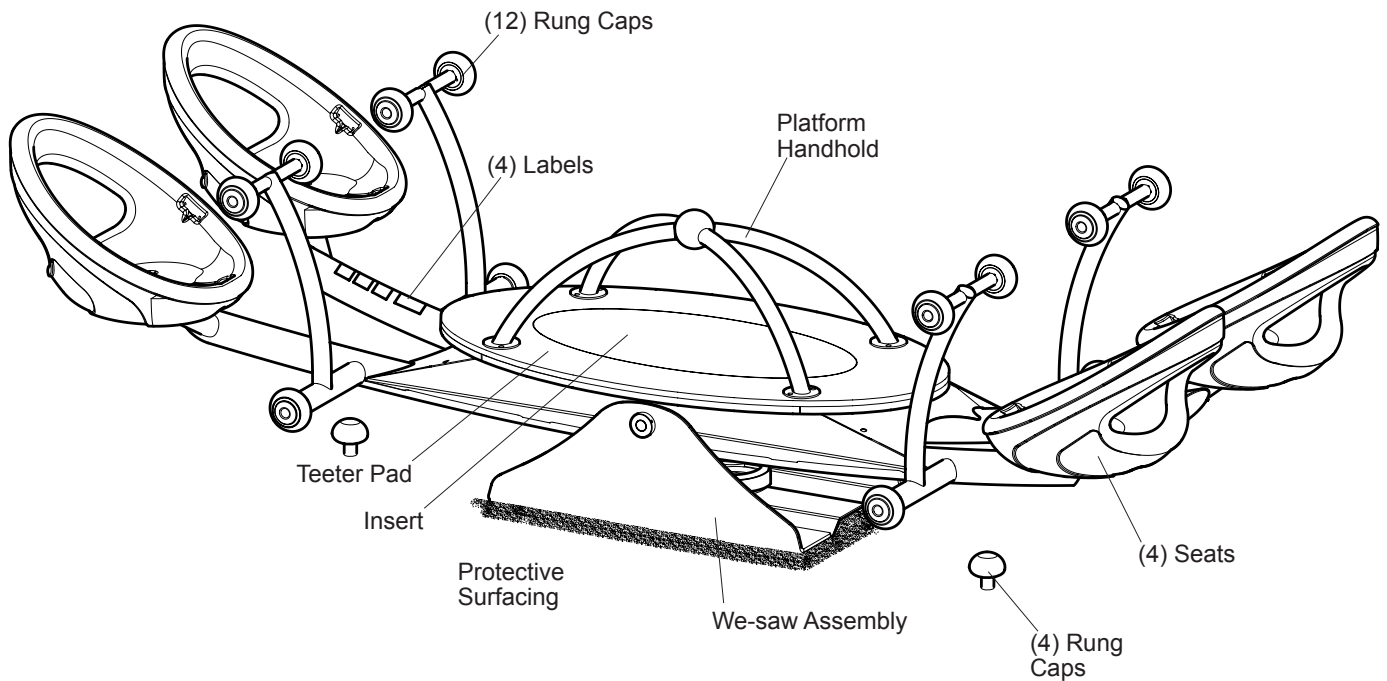
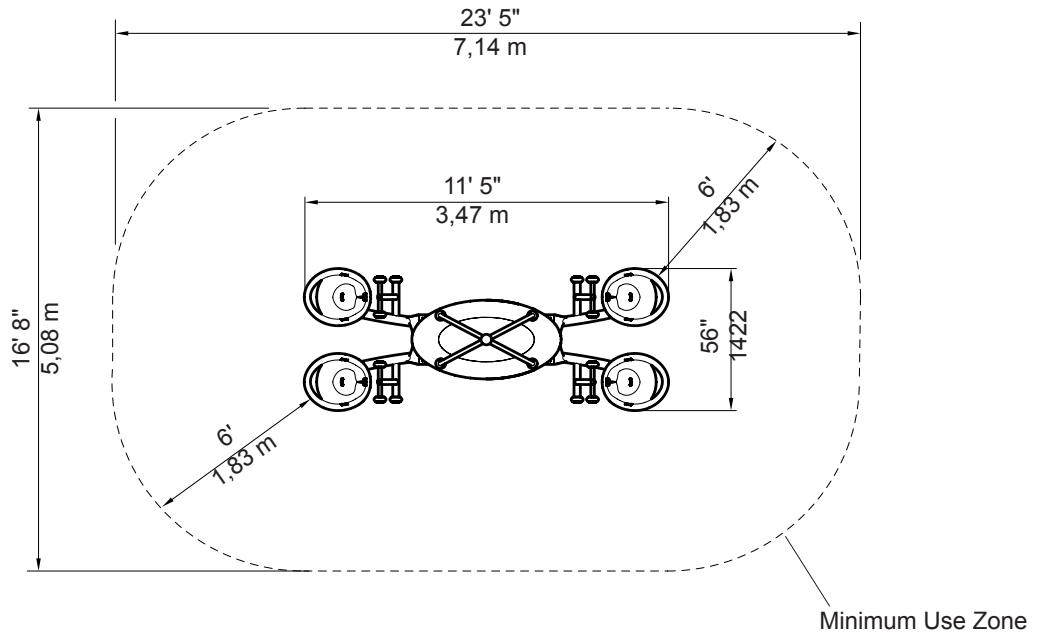
Unitary Surfacing



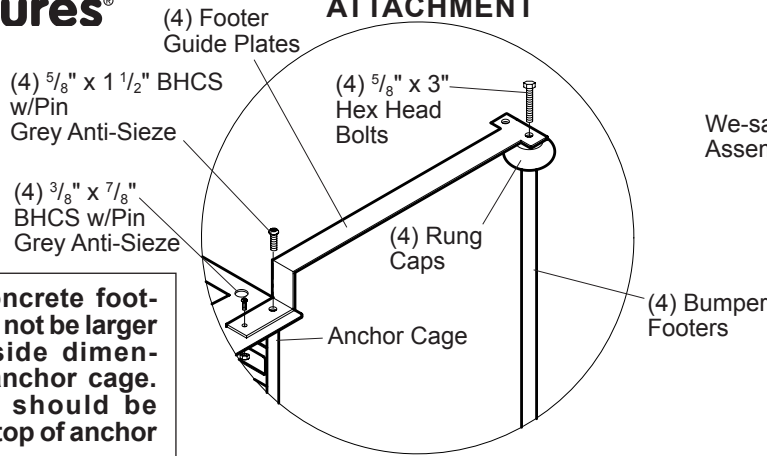
NOTE: When using unitary surfacing on crushed aggregate, refer to Frame Anchoring Detail for loose fill protective surfacing.



PLAN VIEW

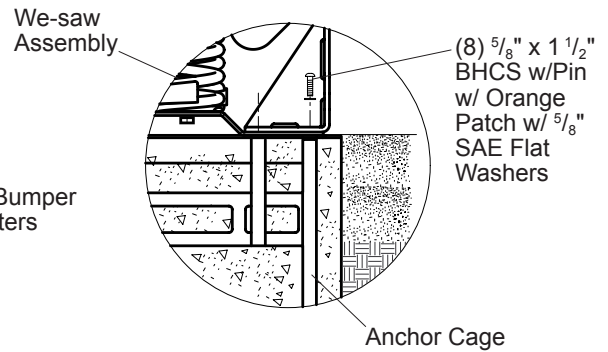


DETAIL BUMPER FOOTER ATTACHMENT

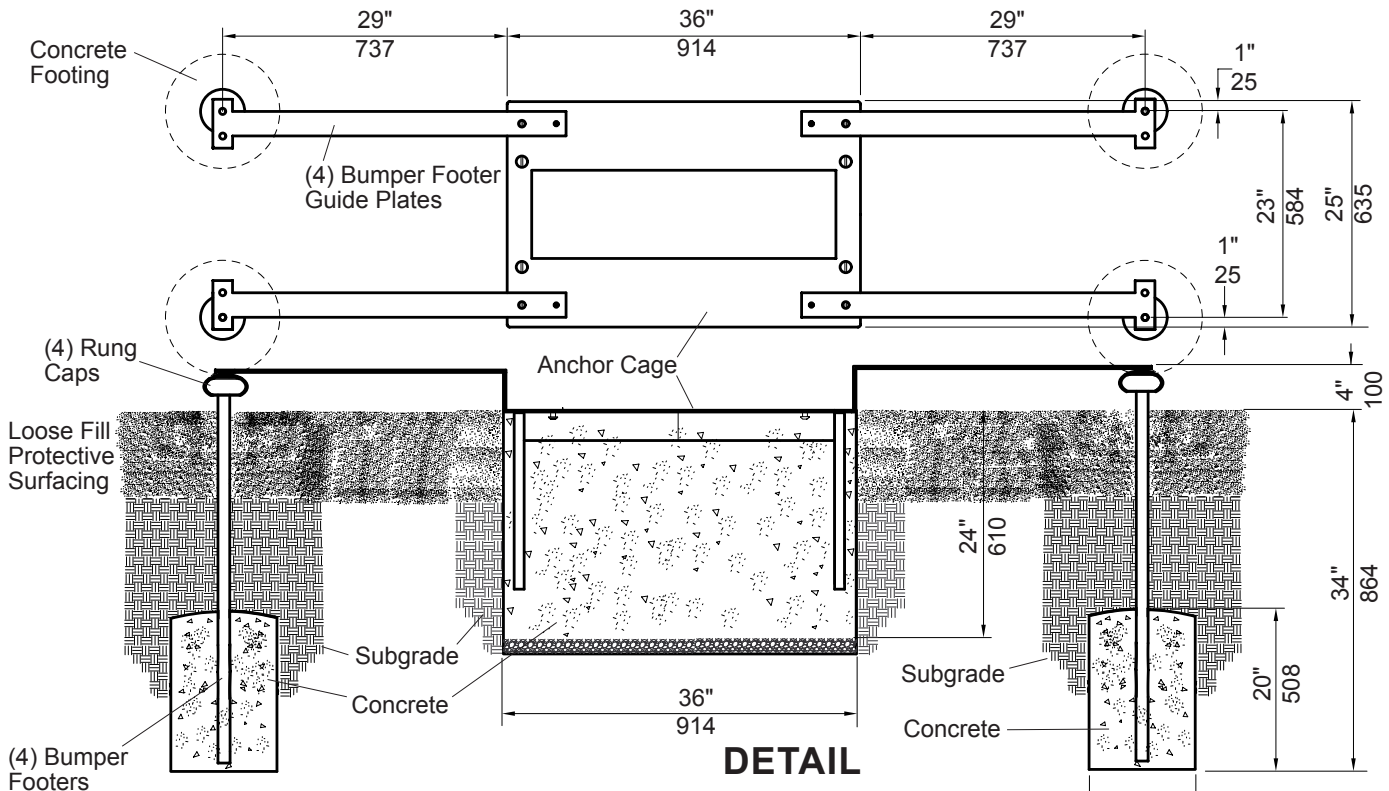


NOTE: Concrete footing should not be larger than outside dimensions of anchor cage. Concrete should be flush with top of anchor cage.

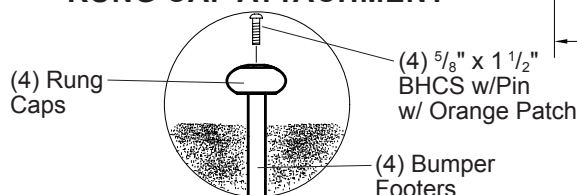
DETAIL WE-SAW ASSEMBLY ATTACHMENT



DETAIL CONCRETE FOOTINGS (WITH FOOTER GUIDE PLATES)

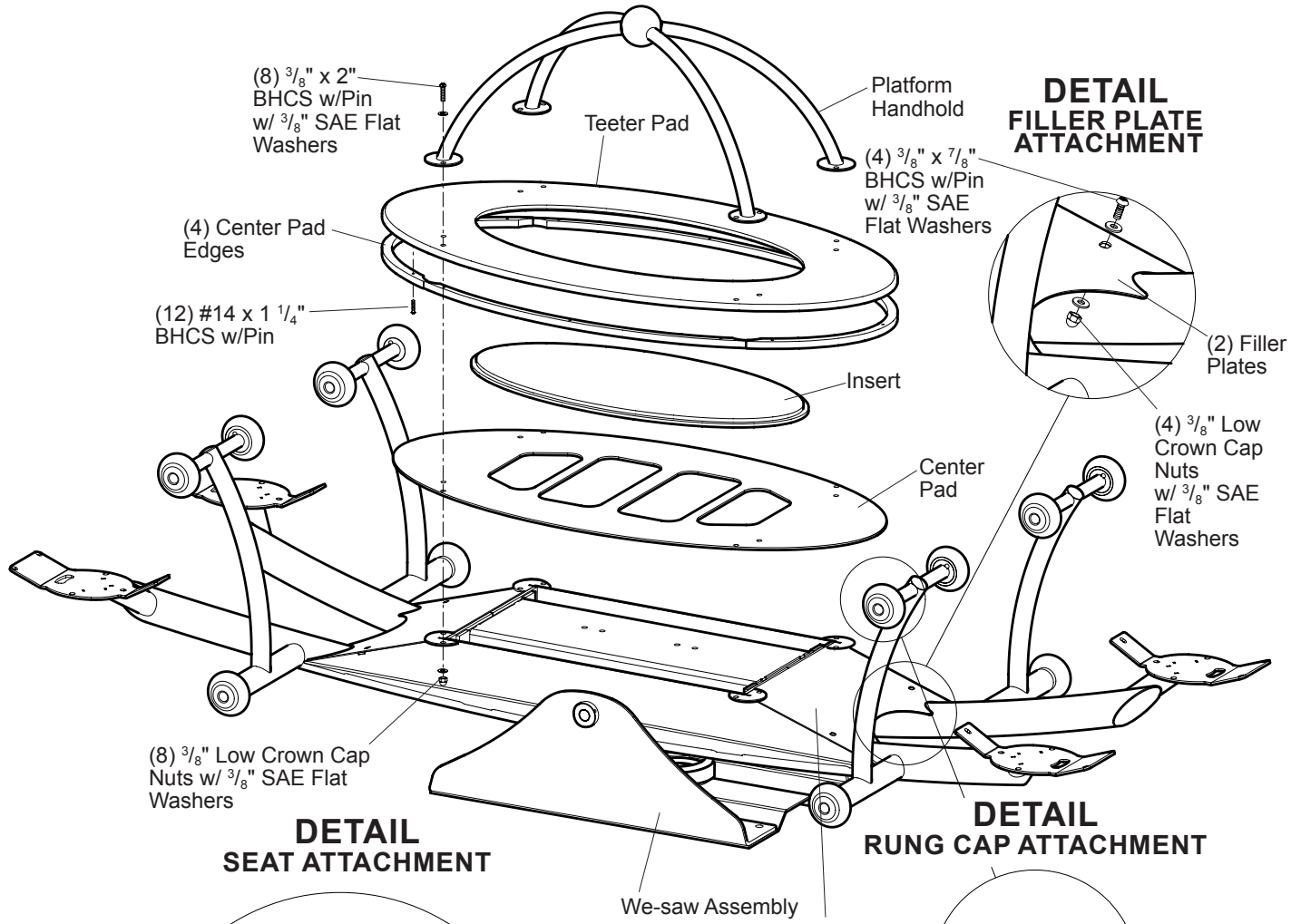


DETAIL RUNG CAP ATTACHMENT



**DETAIL
WE-SAW ASSEMBLY**

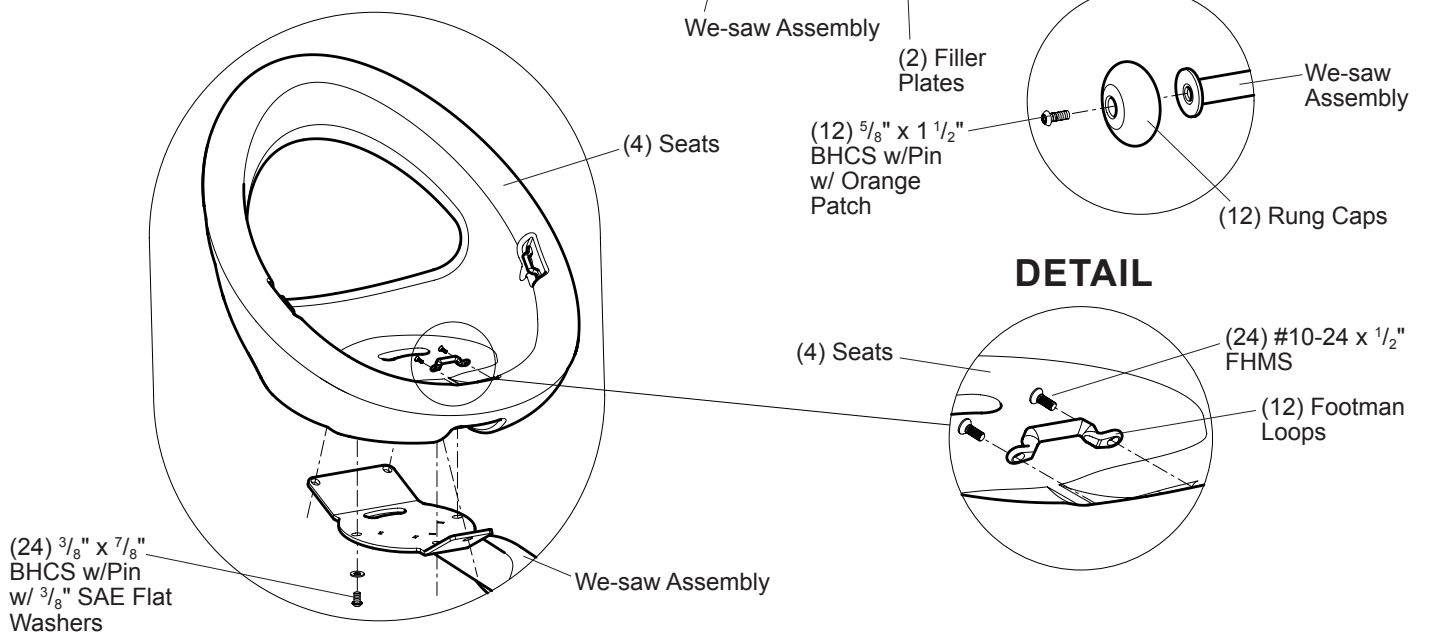
**DETAIL
FILLER PLATE
ATTACHMENT**



**DETAIL
SEAT ATTACHMENT**

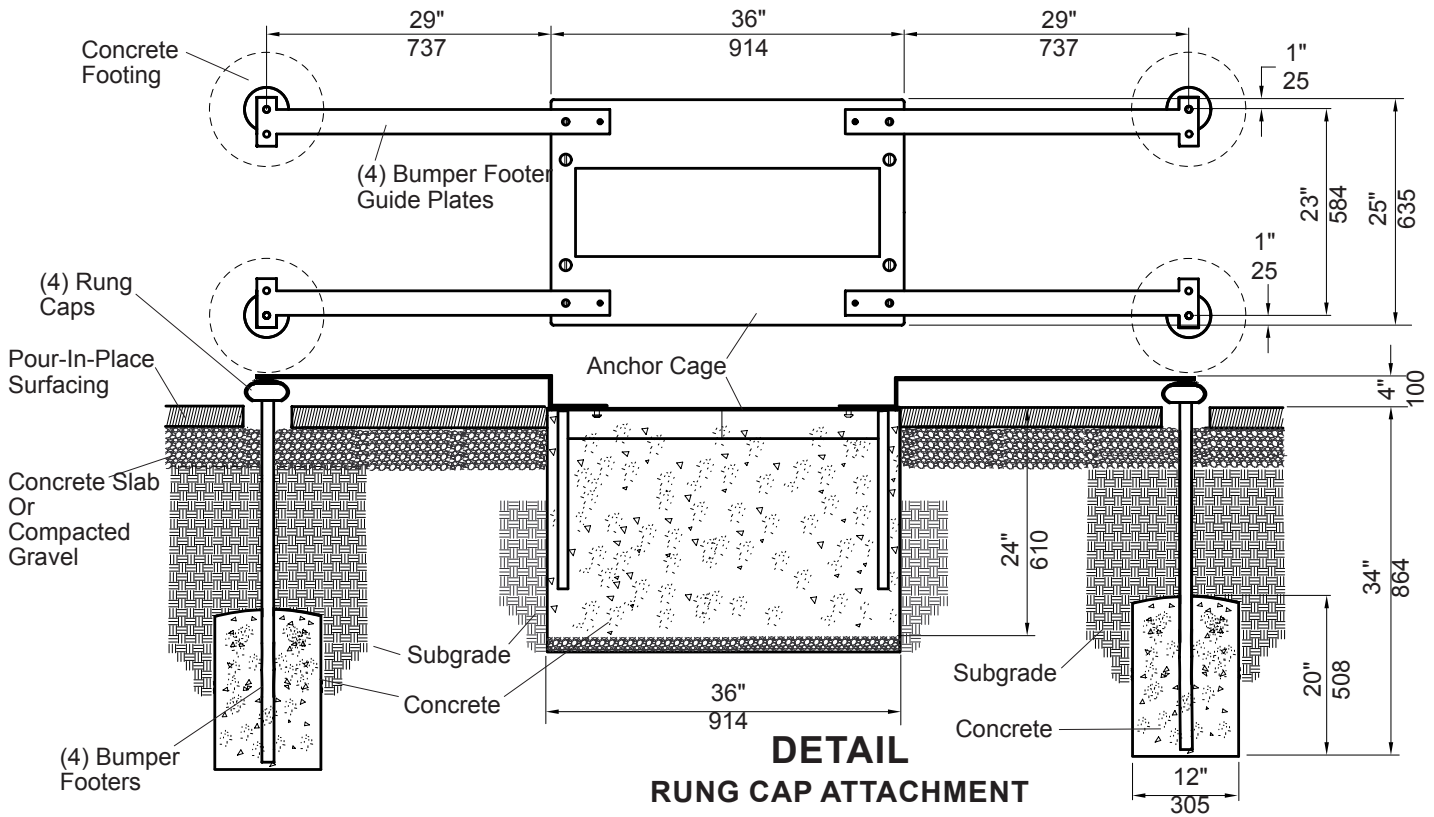
**DETAIL
RUNG CAP ATTACHMENT**

DETAIL

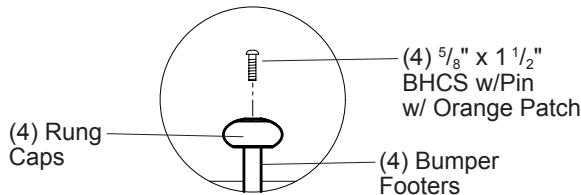


DETAIL
DIRECT BURY WITH
POUR-IN-PLACE SURFACING

CONCRETE FOOTINGS
(WITH FOOTER GUIDE PLATES)



DETAIL
RUNG CAP ATTACHMENT



Parts List

Part#	Description	Qty.
181123	Seat, Specify Color.....	4
182262	Rung Cap, Black.....	16
182458	Platform Handhold, Specify Color.....	1
182947	Center Pad, Black.....	1
211277	GripX Insert, Black.....	1
183327	Teeter Pad, Specify Color.....	1
183328	Pad Edge Long, Specify Color.....	2
183329	Pad Edge Short, Specify Color.....	2
183748	Filler Plate, Specify Color.....	2
186453	Anchor Cage, Black.....	1
187231	Bumper Footer, Specify Color.....	4
188068	We-saw Assembly, Black.....	1
186951	Footer Guide Plate, Black.....	4
208040	We-saw Hardware Package	1
100173	3/8" x 2" BHCS w/Pin, SST.....	8
100196	3/8" x 7/8" BHCS w/Pin, SST.....	28
100201	5/8" x 1 1/2" BHCS w/Pin, SST-Patch.....	24
100365	3/8" SAE Flat Washer, SST.....	48
129500	5/8" SAE Flat Washer, SST.....	8
129672	#14 x 1 1/4" TORX BHCS, SST.....	12
207709	Footman Loop, SST.....	12
162462	#10-24 x 1/2" FHMS.....	24
115176	ASTM Hard Surface Warning Label.....	1
156846	Play Safe Label, 2-12 Years.....	1
182212	Entanglement Warning Label.....	1
182213	Hot Surface Warning Label.....	1
100349	3/8" Low Crown Cap Nut, SST.....	12
127463	Bit Hex TPP T-27 Torx.....	1
188123	Bumper Guide Plate Hardware Package	1
127546	3/8" x 7/8" BHCS w/Pin, SST.....	4
127551	5/8" x 1 1/2" BHCS w/Pin, SST.....	4
188124	5/8" x 3" Hex Cap Screw, ZP.....	4

Specifications

We-saw Assembly: (**Arm Assembly**) Weldment comprised of 3.500" (88,9 mm) O.D. x 8 GA. (.162") (4,11 mm) wall galvanized steel tubing, 2.375" (60,33) O.D. RS40 (.130"- .140") (3,30 mm-3,56 mm) wall galvanized steel tubing, 1.900" (48,26 mm) O.D. RS40 (.120"- .130") (3,05 mm-3,30 mm) wall galvanized steel tubing, .375" (9,52 mm) thick HRPO steel plate and .250" (6,35 mm) HRPO steel plate. Finish: ProShield®, black in color. (**Rocker Assembly**) Weldment comprised .250" (6,35 mm) HRPO steel plate and 2" (50 mm) x 5/16" (7,93 mm) wall steel tubing. Finish: ProShield, black in color. (**Base**) Weldment comprised .375" (9,53 mm) HRPO steel plate and 2.500" (63,50 mm) O.D. x 1.150" (29,21 mm) I.D. stainless steel tubing. Finish: ProShield, black in color. (**Base Plate**) Fabricated from .250" (6,35 mm) HRPO steel plate. Finish: ProShield, black in color. (**Spring**) 5 5/8" (142,87 mm) diameter 13/16" (20,62 mm) tempered alloy steel coil. Finish: ProShield, black in color. (**Spring Wedge**) Cast from ductile iron alloy. Finish: ProShield, black in color. (**Bearings**) 1.145" (29,08 mm) I.D. oilite bronze. (**Shaft**) 1.14" (28,96 mm) O.D. stainless steel.

Filler Plate: Fabricated from 12 Ga. (105") (2,66 mm) HRPO steel sheet. Finish: ProShield, color specified.

GripX Insert: 3/4" (19,05 mm) Thick Permalene®, black in color.

Teeter Pad & Edges: Permalene®, color specified.

Platform Handhold: Weldment comprised of 1.315" (33,4 mm) O.D. RS20 (.080"- .090") (2,03 mm - 2,28 mm) wall galvanized steel tubing, 10 GA (.135") (3,42 mm) HRPO steel sheet and 7 GA. (.179") (4,54 mm) HRPO steel sheet. Finish: ProShield®, color specified.

Anchor Cage: Weldment comprised of 1.029" (26,13 mm) O.D. RS20 (.070"- .080") (1,77 mm - 2,03 mm) wall galvanized steel tubing with 203 or 303 stainless steel welded inserts with 5/8" internal threads and 7 GA. (.179") (4,54 mm) HRPO steel sheet. Finish: ProShield®, black in color.

Rung Cap: Molded from U.V. stabilized black EPDM rubber encapsulating .250" (6,35 mm) thick aluminum sheet and .125" (3,18 mm) thick aluminum plate.

Center Pad: Fabricated from .250" (6,35 mm) thick HRPO steel sheet plate. Finish: ProShield®, black in color.

Bumper Footer: Weldment comprised of 1.315" (33,40 mm) O.D. RS20 (.080"- .090") (2,03 mm - 2,29 mm) wall galvanized steel tubing with 203 or 303 stainless steel welded inserts with 5/8" internal threads and .250" (6,35 mm) thick HRPO steel plate. Finish: ProShield®, color specified.

Seat: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 16 man hours

Fall Height: 54" (1,37 m)

Min. Use Zone: 6' (1,83 m)

Area Required: 16' 8" x 23' 5" (5,08 m x 7,14 m)

Concrete Req.: Approx. 17.82 cu. ft.

Weight: 783 lbs.

Installation Instructions

- 1) **(Direct Bury)** Dig footing holes for anchor cage and bumper footers. Build a form for anchor cage concrete footing. Concrete footing for anchor cage should not be larger than outside dimensions of anchor cage. Refer to Concrete Footing Details.
- 2) Attach rung caps and bumper footers to bumper footer guide plates using $\frac{5}{8}$ " x 3" hex head bolts. Refer to the Bumper Footer Attachment Detail.
- 3) Attach bumper footer guide plates to anchor cage using $\frac{5}{8}$ " x 1 $\frac{1}{2}$ " BHCS w/pin and $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin. Refer to the Bumper Footer Attachment Detail.
- 4) Place anchor cage and bumper footers in footing holes, as shown. Top of anchor cage should be flush with finished grade. With anchor cage level and bumper footers plumb, pour concrete. Concrete should be flush with top of anchor cage. Allow concrete footing to cure for a minimum of 72 hours before continuing. Refer to the Concrete Footing Details.
- 5) Remove footer guide plates from anchor cage and bumper footers. Discard bumper guard plates and hardware. Attach rung caps to bumper footers using $\frac{5}{8}$ " x 1 $\frac{1}{2}$ " BHCS w/pin. Refer to the Rung Cap Attachment Detail.
- 6) Set We-saw assembly onto anchor cage. Line up holes in We-saw assembly bottom plate with threaded inserts in anchor cage. Attach We-saw assembly to anchor cage using $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " BHCS w/pin with $\frac{5}{8}$ " SAE flat washers. Refer to the We-saw Assembly Attachment Detail.
- 7) Attach filler plates to We-saw assembly using #14 x 1 $\frac{1}{4}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " SAE flat washers. Refer to the Filler Plate Attachment Detail.
- 8) Attach center pad edges to teeter pad, using #14 x 1 $\frac{1}{4}$ " BHCS w/pin. Refer to the We-saw Assembly Detail.
- 9) Attach platform handhold, teeter pad, insert and center pad to We-saw assembly attachment plates, using $\frac{3}{8}$ " x 2" BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " SAE flat washers. Refer to the We-saw Assembly Detail.
- 10) Attach rung caps to We-saw assembly using $\frac{5}{8}$ " x 1 $\frac{1}{2}$ " BHCS w/pin. Refer to the Rung Cap Attachment Detail.
- 11) Attach seats to We-saw assembly using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers. Refer to the Seat Attachment Detail.
- 12) Attach footman loops to seats using #10-24 x $\frac{1}{2}$ " FHMS. Refer to the Seat Attachment Detail.
- 13) Apply Play Safe and warning labels, as shown.
- 14) Install protective surfacing before users are allowed to play on the structure.

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. Bench – With Back
 - 2. Picnic Table - ADA
 - 3. Trash/ Recycling receptacle
 - 4. Water Fountain
 - 5. Park Sign
- 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:
 - 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.

1.5 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.
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.

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- 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. Benches and Tables: Provide attic stock equivalent to 20% of total slat material.
 - 2. Trash and Recycling Receptacle Inner Containers: Five full-size units for each size and type indicated, but no fewer than two units.

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:
 - 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.

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

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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:
 - a. Deterioration of finishes beyond normal weathering and wear.
 - b. Separation or delamination of materials and components.

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- 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 BENCH -WITH BACK

- A. Manufacturer: DuMor, Locally sourced by Nutoys Leisure Products, Tel: 800 526 6197; E: play@nutoys4fun.com
- B. Model: 165-60PL-CENTER ARMREST
- C. Frame Material: Solid cast aluminum – Charcoal powder coat
- D. Seat:
 - 1. Material: Recycled Plastic
 - 2. Color: Walnut
 - 3. Overall Height: 32"
 - 4. Overall Width: 73"
 - 5. Overall Depth: 27"
 - 6. Arms: Side and Center arm
 - a. Arm Material: Solid cast aluminum
 - 7. Weight: 281lbs.
- E. Mounting: Surface mount

2.2 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"

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6. Surface Shape: Rectangle
7. Weight: 284lbs.

E. Accessibility:

1. All tables to be ADA, refer to plan for locations

2.3 TRASH/RECYCLING RECEPTACLE

A. Manufacturer: Clean River, www.cleanriver.com

B. Model: Promenade Dome Top | PD,
1. #PD35-2

C. Support Frames: Steel; welded.

D. Trash Receptacles:

1. Capacity 70-gallon
2. Dimensions: 42"w x 19"d x 47.25"h

E. Material Finish: Raven Black and Marine Blue and Storm Gray Housing

F. Opening Shapes: 12.5"x5.5" Rectangle(Trash) & 9"x2"x5" Saturn(Recycling)

G. Labels: Trash to read "LANDFILL", Recycling to read "RECYCLING"

H. Customization: Large poster on doors (poster on door to be furnished by COE)

I. Mounting: Surface Anchors

2.4 WATER FOUNTAIN

A. Manufacturer: Most Dependable Fountains, Inc, www.mostdependable.com

B. Model: 10145 SMSS

C. Material: Stainless Steel Pedestal, Color TBD

D. Options:

1. No filter
2. Surface mount with 10" stainless steel surface carrier
3. Copper kit
4. Shroud on high bowl
5. Attached pet fountain
6. Recessed hose bibb and lock door
7. Bowl sand strainer

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2.5 Park Sign

- A. Manufacturer: South Water Sign, 934 N Church Street, Elmhurst, IL 60126

Model: City of Evanston Standard Park Sign

2.6 Park Rules Sign

- A. See draings

2.7 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.
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.

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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.

2.8 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 AWPA 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.

2.9 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.

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2.10 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.

2.11 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.

2.12 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.
- F. If unsatisfactory conditions are encountered, notify the Landscape Architect immediately to determine corrective action prior to proceeding.

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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.

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.

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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 12 93 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 and pay for as part of the base bid price 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. 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.

B. 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 Owner.

- C. Protection of Existing Vegetation: provide in accordance of "Temporary Tree and Plant Protection"

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- 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 earthwork.
 - 3. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult the Owner 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.

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:

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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.

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:

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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, 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:

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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.

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 COMPACTION

A. General: Control soil compaction during construction, providing the minimum percentage of density specified.

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- 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.

3.5 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.
 - 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.

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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, 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.

3.6 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.

3.7 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 and pay for within the base bid price 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.

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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.

F. 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.

3.8 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.

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3.9 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 31 23 17

EXCAVATING, BACKFILLING, AND COMPACTING FOR UTILITIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes the following:
 - 1. Excavation for - trenches for electric and sewer lines to public utility.
 - 2. Compacted bed and compacted fill over utilities to subgrade elevations.
 - 3. Compaction.

1.2 SUBMITTALS

- A. Submit samples in accordance with General Conditions of contract and Division 01 Sections.
- B. Submit 10 lb. sample of each type of fill to testing agency, in separate airtight containers.

1.3 TESTS

- A. Tests and analysis of fill materials will be performed in accord with ASTM D1557 and with General Conditions.

1.4 REFERENCES

- A. ASTM C136, - Sieve Analysis of Fine and Coarse Aggregates.
- B. ASTM D1556, - Density of Soil in place by Sand-Cone Method.
- C. ASTM D1557, - Tests for Moisture-Density Relationship of Soils and Soil-Aggregate Mixtures Using 10 lb. Rammer and 18-inch Drop.
- D. Illinois Department of Transportation (IDOT):
 - 1. IDOT Specifications for Road and Bridge Construction, latest edition, including all addenda.

1.5 PROTECTION

- A. Protect excavations by shoring, bracing, sheet piling, underpinning or other methods or prevent cave-in or loose soil from falling into excavation.
- B. Underpin adjacent structures which may be damaged by excavation work, including service utilities and pipe chases.
- C. Notify Owner immediately of unexpected subsurface conditions. Confirm notification in writing. Discontinue work until Owner issues written notification to resume work.
- D. Protect bottom of excavations and soil adjacent to and beneath foundations from frost.
- E. Grade excavation tip perimeter to prevent surface water runoff into excavation.

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PART 2 - PRODUCTS

2.1 MATERIALS

- A. In accordance with the soil report the Contractor's testing agency representative shall determine if the excavated material is suitable for backfill. The suitable trench excavated material shall be used for trench backfill.
- B. Granular Fill Type A:
 - 1. Material for granular fill shall be CA-11 or CA-13 in compliance with IDOT Specifications for Road and Bridge Construction, latest edition, including all addenda.
 - 2. Bedding Material: Material for bedding shall be CA-11 in compliance with IDOT Specifications for Road and Bridge Construction, latest edition, including all addenda.
- C. Fill Material Type D: Fill material shall be cohesive soil obtained from on-site required excavations and approved by the Contractor's testing agency representative as suitable backfill material in accordance with ASTM D 2487, Uniform Soils Classification System 1 and 703.5. It shall be used to backfill excavations where the excavated material is unsuitable for backfill.
- D. Fill Material Type E: Fill under landscaped areas shall be free from alkali and salt and shall be obtained from on-site required excavations when conforming to the specifications. This fill shall be approved by the Contractor's testing agency representative as suitable material.
- E. Fill Material Type X: Off-site borrow material shall comply to soil types GP, GW, SC and CL in accordance with ASTM D 2487, Uniform Soils Classification. It shall be used where needed under structural slabs, roads, pavement and landscaped areas.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Verify stockpiled fill to be reused as approved in writing by Owner.
- B. Verify and confirm in writing that areas to be backfilled are free of debris, snow, ice or water, and surfaces are not frozen.

3.2 PREPARATION

- A. Identify specified lines, levels, contours and data.
- B. Compact subgrade surfaces to density specified for backfill materials.

3.3 EXCAVATION

- A. Cut trenches wide enough to enable utility installation and allow inspection.
- B. Hand trim excavation and leave free of loose matter. Hand trim for bell and spigot pipe joints.
- C. Excavation shall not interfere with normal 45 degree bearing splay of foundations.

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- D. Sides, walls or faces of all trenches shall be sloped and maintained in a safe manner and in the required condition until completion of backfilling. Excavations shall be braced or sloped in compliance to the latest Occupational Safety and Health Administration (OSHA) requirements or as instructed by the testing agency on-site representative.
- E. Locate and retain reusable excavated materials away from the edge of excavation.

3.4 BACKFILLING

- A. Support pipes, and conduits during placement and compaction of bedding fill.
- B. Backfill trenches to contours and elevations shown. Backfill systematically, as early as possible to allow maximum time for natural settlement. Do not backfill over porous, wet or spongy subgrade surfaces.
- C. Place compact fill materials in continuous layers as specified in Section "Earthwork for Sitework".
- D. Use a placement method that will not disturb or damage utilities in trenches, perimeter drainage.
- E. Maintain optimum moisture content of backfill materials, determined by laboratory analysis, to obtain specified compaction density.

3.5 FILL TYPES AND COMPACTION

- A. Compact all fill and backfill to specified values based on Modified Proctor Test in accordance with Section "Earthwork for Sitework".

3.6 QUALITY CONTROL

- A. Quality Control Testing During Construction: An independent inspection and testing agency employed by the Contractor shall inspect and approve each subgrade and fill layer before further backfill and fill work is performed.
 - 1. The inspection and testing agency shall perform laboratory density tests in accordance with ASTM D 1557.
 - 2. Field density tests shall be in accordance with ASTM D1556 or ASTM D2167 as appropriate.
 - 3. 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 D 1556. Calibration of nuclear density testing device shall be in accordance with ASTM D7759.
 - 4. 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.
 - 5. If, in the opinion of the Contractor's testing agency representative, based on the inspection and testing agency reports and inspections, subgrade or fills have been placed by specified density, the Contractor shall perform additional compaction and retesting until specified density contractor to pay for all retesting work.
 - 6. The Contractor shall assist the inspection and testing agency by providing access to the excavation and fill areas, and by removing loose materials from compacted soil layers prior to testing.

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3.7 REMOVAL AND DISPOSAL

- A. Remove surplus backfill materials and materials unsuitable for backfill from the site and legally dispose of offsite according to authorities having jurisdiction.

END OF SECTION 31 23 17

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 00 - PLAYGROUND SURFACE SYSTEM

WOOD FIBER PLAY SURFACING

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes the following:
 - 1. Engineered wood fiber surface.

1.02 DEFINITIONS

- A. Critical Height: Standard measure of shock attenuation. According to CPSC No. 325, this means "the fall height below which a life-threatening head injury would not be expected to occur."
- B. Critical Fall Height: According to ASTM F 1487, "the vertical distance between a designated play surface and the protective surfacing beneath it."
- C. Use Zone: According to ASTM F 1487, "the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."
- D. EWF: Engineered Wood Fiber.
- E. ASTM: American Society for Testing and Materials
- F. CPSC: Consumer Product Safety Council.
- G. ADA: Americans with Disabilities Act.
- H. IPEMA: International Play Equipment Manufacturers Association.

1.03 PERFORMANCE REQUIREMENTS

- A. IPEMA Certified; rated for fall heights.
- B. Use zones, clearances and reach ranges will comply with ASTM F1487, sections 8, 9 and 10.
- C. Impact Attenuation: According to ASTM F 1292.
 - 1. Must show G-max values of less than 155G for 8-inch system, or 120G for 12-inch system at 12' drop heights.
 - 2. HIC values of less than 1,000 for both new and 12-year-old material.
- D. Accessibility of Surface Systems: According to ASTM F 1951.
- E. Minimum Characteristics for Organic Loose-Fill Surfaces: According to ASTM F 2075.
- F. Flammability: According to ASTM D 2859
- G. Manufacturers 20-year Warranty against loss of resiliency, lifetime warranty of geo-fabric material.

1.04 SUBMITTALS

- A. Product Data: For each type of product indicated, including installation instructions, applicable ASTM results and IPEMA Certificates of Compliance. Material manufactured from recycled material will not be acceptable.

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- B. Shop Drawings: Show the following:
 - 1. Installation details for curbs, edging, mat locations and accessories.
 - 2. Location of drainage accessories.
 - 3. Extent of each type of play surface with play equipment and critical dimensions indicated.
- C. Samples for Verification: For each type of playground surface system indicated.
 - 1. Minimum 1-quart loose-fill surface sealed in a container.
 - 2. Minimum 12-by-12-inch sample of geosynthetic fabric.
 - 3. Minimum 6-by-6-inch sample of drainage panel module.
- D. Qualification Data:
 - 1. For installer
- E. Material Test Reports: For the following from a qualified testing agency, indicating compliance with requirements:
 - 1. EWF loose fill surface
 - 2. Provide test results on letterhead of the independent testing laboratory.
- F. Material & Liability Insurance Certificates: For each playground surface system product, signed by manufacturers.
- G. Field quality-control test reports.
- H. Maintenance Data: For playground surface system to include in maintenance manuals.
- I. Warranty: As specified in this Section.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer.
 - 1. Contractor Qualifications: Employ only experienced Contractors (Installers) skilled in the successful installation of the specified materials and assemblies on similar projects for a minimum of three (3) years.
- B. Testing Agency Qualifications: An independent agency qualified according to ANSI Z34.1 for testing indicated.
- C. Source Limitations: Obtain playground surface system materials, including primers and binders, and wear mats, through one source from a single manufacturer.
 - 1. Provide secondary materials including adhesives, primers, geosynthetics, and repair materials of type and from source recommended by manufacturer of playground surface system materials.

1.06 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit playground surface system installation to be performed according to manufacturers' written instructions and warranty requirements.

1.07 DELIVERY, STORAGE & HANDLING

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- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packing, with labels clearly identifying product name and manufacturer. Deliver EWF playground surfacing to site in bulk.
- B. Storage: Store materials in a clean, dry area in accordance with manufacturer's instructions. Store EWF playground surfacing to prevent contamination.
- C. Handling: Protect materials during handling and installation to prevent damage. Handle EWF playground surfacing to prevent contamination.

1.08 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of playground surface system that fails in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Reduction in impact attenuation.
 - b. Deterioration of surface and other materials beyond normal weathering.
 - c. Geotextile fabric against deterioration and decay.
 - 2. Warranty Period:
 - a. Engineered Wood fiber play surface for 10 years from date of Contract Completion.
 - b. Playground surfacing wear mats 5 years from date of Contract Completion.

1.09 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. EWF: Engineered wood fiber in bags; 10% of amount installed, but no fewer than 3 bags.
 - 2. Wear mats: 10% of amount installed, but no fewer than two units.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENT

- A. Impact Attenuation: Critical fall height tested according to ASTM F1292.
- B. Accessibility Standard: Minimum surfacing performance according to ASTM F1951.

2.02 SAFETY SURFACE MANUFACTURER

- A. Manufactures and Type
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings by:
 - The Fibar Group LLC
 - 80 Business Park Drive, Suite 300
 - Armonk, NY 10504-1705
 - P: (800) 342-2721
 - info@Fibar.com
- B. Or comparable product by one of the following:
 - 1. GameTime; GT Impax Fiber.

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2. New England Playground Surfacing; Playground Safety Fiber.
3. SofFall Incorporated; SofFall.
4. Zeager Bros., Inc.; WoodCarpet

2.03 ENGINEERED WOOD FIBER SURFACE

A. Engineered Wood Fibers: Random-sized wood fibers, in manufacturer's standard fiber size, recently harvested and debarked North American hardwoods containing no bark, leaves, twigs, or foreign or toxic materials according to ASTM F 2075; graded according to manufacturer's standard specification for material consistency for playground surfaces and for accessibility according to ASTM F 1951; IPEMA certified for conformance to ASTM F1292-99.

1. Engineered Wood Fiber
 - a. Shredded wood fiber consisting of randomly sized pieces.
 - 1) Recycled from wood mills and truss plants.
 - 2) Does not exceed 2 inches in length.
 - 3) Contains no more than 15% fines to aid in compaction.
 - 4) Depth of material – 12”.
 - 5) Critical Fall Height: 10’
 2. Drainage System: Fibar System 200.
 - a. FibarDrain
 - 1) Drainage matrix that channels water away from playground.
 - 2) Minimum flow rate of 10 gpm/ft.
 - 3) Needle-punched 100% non-woven geotextile sleeve encasing a monofilament nylon mesh.
 - 4) Laid out on 6'-0" centers in the direction of the grade.
 - b. FibarFelt
 - 1) Needle-punched 100% non-woven geotextile fabric that separates the Engineered Wood Fiber from soil below.
 - 2) Cover sub-grade and drainage matrix area to ensure proper drainage.
 - 3) Overlap seams by 3 inches.
 - c. Refer to Civil Engineering drawings for locations and general site information.
 3. Accessory Items:
 - a. DynaCushion: Required at all swings, tire swings, slide exits and sliding poles.
 - 1) 4 ft x 6 ft x 2 inch with beveled edges (ADA Compliant on all sides)
 - 2) Place under each swing seat, tire swing, slide exit and sliding poles.
 - b. #67 Angular drainage stone.
 - 1) 3-inch depth over bottom layer of FibarFelt geotextile fabric.
 - c. Concrete Edge Restraints
 - 1) Refer to drawings for locations.

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- 2) Specification Section 32 13 13 Concrete Paving applies.

2.04 WEAR MATS

- A. Wear mats shall be 4' x 6' x 2" by DynaCushion model R20C4872 as manufactured by Pierceton Rubber Products, Inc., 3076 S. 900 E., Pierceton, IN 46526, www.dynacushion.com.

PART 3 - EXECUTION

3.01 PREPARATION

- A. General: Prepare substrates to receive surfacing products according to playground surface system manufacturer's written instructions. Verify that substrates are sound and without high spots, ridges, holes, and depressions.
- B. Verify under-drain system has been properly installed in accordance with manufacturer's requirements.

3.02 INSTALLATION, GENERAL

- A. General: Comply with playground surface system manufacturer's written installation instructions. Install playground surface system over area and in thickness indicated.
- B. Excavate area to proper depth, based on Critical Fall Heights. Review shop drawings and confirm with Landscape Architect the Critical Fall Height zones and depths prior to excavation.

3.03 INSTALLATION OF ENGINEERED WOOD FIBER SURFACE SYSTEMS

- A. Provide minimum 1% downward grade to ensure proper drainage to FibarDrain Strip.
- B. Remove all roots, stones and vegetation.
- C. Accurately grade and firmly compact entire area, especially where fill materials have been utilized.
1. Review areas with Landscape Architect where tree protection is required to minimize compaction and exposure of roots.
- D. Excavate trench 2" wide x 6" deep, perpendicular to grade at lowest point of playground area.
- E. Install FibarDrain and connect low end of strip to storm drain or similar device to remove collected water.
- F. Install playground equipment.
- G. Install retaining curb or edge restraint.
- H. Install FibarDrain strips at 6' centers in direction of grade.
- I. Cover sub-grade and drainage trench with FibarFelt.
1. Allowing 3" overlap at all seams.
2. Slit to fit around footings of equipment.
3. Overlap all slits with either next piece of FibarFelt or scrap piece, to ensure complete coverage.
- J. Install FibarMat wear mats either on FibarFelt, in middle of Fibar Wood Fiber or on top of system.
- K. Permanently mark, with paint or other type of permanent marker, all the legs of the playground equipment with the compacted system design depth.

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- L. Spread Fibar® Wood Fiber using a Bobcat, small front-end loader or our Express Blower Trucks.
 - 1. Care should be taken when driving over FibarDrain.
 - 2. Do not make sharp turns on FibarFelt or FibarDrain.
- M. Install all materials delivered.
 - 1. Additional materials are supplied to account for natural compaction.
 - 2. Material may be several inches high, until it compacts.
 - 3. Feather edges to make smooth transition to grade or border.
- N. Hand spread and rake for smooth, finished surface.
- O. After two weeks of active use, surface should be raked again.
- P. Consumer Product Safety Commission (CPSC) and ASTM recommends Use Zones of at least 6 feet around all equipment, except:
 - 1. Swings – Use zone equal to 2 times the height of top rail is needed in front and behind swings.
 - 2. Slides – Use zone equal to height of slide plus 4 feet, extending a minimum of 6 feet, in front of slide exits.

3.04 WEAR MAT INSTALLATION

- A. Install wear mats at all slide exits and beneath each swing bay as indicated in the drawings. Set wear mats 6" below finished surface of engineered wood fiber surfacing.

3.05 FIELD QUALITY CONTROL

- A. Inspect the playground and verify that playground equipment use zones, clearances, and reach ranges comply with applicable ASTM F1487 requirements.

END OF SECTION 32 18 00

SECTION 32 31 19

DECORATIVE METAL FENCES AND GATES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Panel Fence: Manufactured panel fencing with 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 fencing and gate system.
 - 1. Include plans, elevations, sections, gate locations, post spacing, and mounting attachment details, and grounding details.
 - 2. For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- C. Samples: For each fence material and for each color specified.
 - 1. Provide 12 inches in length samples for linear materials (bar, tubes, pipes and plates).
 - 2. Provide 12 inches square samples for infill panels.
- D. Samples for Verification: For each type of exposed finish required.
 - 1. Assembled samples of custom planter fencing, made from full-size components, including anchoring plates and hardware. Submit 36" in length.
 - a. Show method of finishing and connecting members at intersections.

1.04 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.
- B. Product Test Reports: For decorative metallic-coated-steel custom fences, including finish, indicating compliance with referenced standard and other specified requirements.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.
- B. Source Limitations: Obtain each type of railing product through one source from a single manufacturer.
- C. Welding: Qualify procedures and personnel in accordance with the following:
 - 1. AWS D1.1, "Structural Welding Code—Steel".
- D. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
 - 1. Include one complete panel (post to post) or minimum 10 ft. length of fence complying with requirements.

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2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.06 PROJECT CONDITIONS

- A. Field Measurements: Verify fencing dimensions by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating fencing without field measurements. Coordinate layout of each fencing system and other contiguous construction to ensure that actual dimensions correspond to established dimensions.
 2. Provide allowance for trimming and fitting at site.

1.07 COORDINATION AND SCHEDULING

- A. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Wind Loading:
 1. Fence Height: 0 to 15 feet.
 2. Wind Exposure Category: B.
 3. Design Wind Speed: 105 mph.
- B. Lightning-Protection System: Maximum grounding-resistance value of 25 ohms under normal dry conditions.

2.02 METALS, GENERAL

- A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
- B. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails, unless otherwise indicated.

2.03 PANEL FENCES - MANUFACTURED

- A. Panel Fencing and Swing Gates
 1. Basis of Design Supplier
Ameristar
1555 N. Mingo Rd.
Tulsa, OK 74116
Ph. No.: (800) -321-8724
 2. Type / Model: WireWorks Plus, galvanized steel
 3. Mesh: 2"x6" Wire Panel: 6ga
 4. Posts: 2" sq. x 16ga & 2.5"sq x 16ga

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5. Color: Powder Coated Black
6. Description:
 - a. 4 ft height panel fence
 - 1) 2 Architectural V-Folds
 - b. 4 ft height x 4 ft. wide single gates
 - 1) 2 Architectural V-Folds
 - 2) Padlock mechanism
 - 3) 16ga Kickplate
 - c. 4 ft height x 10 ft. wide double gates
 - 1) 2 Architectural V-Folds
 - 2) Padlock mechanism, drop bar
 - 3) 16ga Kickplate

2.04 PANEL FENCES – REPURPOSED WITH NEW POSTS AND BRACKETS

- A. Steel Posts and Brackets
 1. Basis of Design Supplier
Ameristar
1555 N. Mingo Rd.
Tulsa, OK 74116
Ph. No.: (800) -321-8724
 2. Posts: 2" sq. x 16ga & 2.5"sq x 16ga
 3. Color: Powder Coated Black

2.05 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
- B. Concrete: Normal-weight, air-entrained, ready-mix concrete complying with requirements in Section 03 30 00 "Cast-in-Place Concrete" with a minimum 28-day compressive strength of 3000 psi, 3-inch slump, and 1-inch maximum aggregate size or dry, packaged, normal-weight concrete mix complying with ASTM C387 mixed with potable water according to manufacturer's written instructions.
- C. Nonshrink Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107 and specifically recommended by manufacturer for exterior applications.

2.06 GROUNDING MATERIALS

- A. Comply with local requirements for "Grounding and Bonding for Electrical Systems."
- B. Grounding Conductors: Size as indicated on Drawings. Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.
 1. Material above Finished Grade: Copper.
 2. Material on or below Finished Grade: Copper.
 3. Bonding Jumpers: Braided copper tape, 1-5/8 inch wide and 1/16 inch thick, woven of No. 30 AWG bare copper wire, terminated with copper ferrules.

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- C. Grounding Connectors and Grounding Rods: Comply with UL 467.
 - 1. Connectors for Below-Grade Use: Exothermic-welded type.
 - 2. Grounding Rods: Copper-clad steel.
 - a. Size: 5/8 by 96 inches.

2.07 STEEL FINISHES

- A. Finish exposed welds to comply with NOMMA Guideline 1, Finish #3 - partially dressed weld with splatter removed.
- B. Surface Preparation: Clean surfaces according to SSPC-SP 5/NACE No. 1, "White Metal Blast Cleaning." After cleaning, apply a conversion coating compatible with the organic coating to be applied over it.
- C. Primer Application: Apply zinc-rich epoxy primer immediately after cleaning, to provide a minimum dry film thickness of 2 mils per applied coat, to surfaces that are exposed after assembly and installation, and to concealed surfaces.
- D. High-Performance Coating: Apply intermediate and polyurethane topcoats to prime-coated surfaces. Comply with coating manufacturer's written instructions and with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting. Apply at spreading rates recommended by coating manufacturer.
 - 1. Match approved Samples for color, texture, and coverage. Remove and refinish or recoat work that does not comply with specified requirements.
 - 2. Galvanizing Repair Paint: High zinc dust content paint for regalvanizing welds in galvanized steel, with dry film containing not less than 94 percent zinc dust by weight, and complying with DOD-P-21035 or SSPC-Paint-20; one of the following or equal:

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, construction layout, and other conditions affecting performance of the Work.
- B. Do not begin installation before final grading is completed unless otherwise permitted by Landscape Architect.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- 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 INSTALLATION, GENERAL

- A. Fit exposed connections together to form tight, hairline joints.
- B. Perform cutting, drilling, and fitting required for installing railings. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free from rack.
 - 1. Do not weld, cut, or abrade surfaces of railing components that have been coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.

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2. Set posts plumb within a tolerance of 1/8 inch in 3 feet.
3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.

3.04 DECORATIVE PANEL FENCE INSTALLATION

- A. Install fences according to manufacturer's written instructions.
- B. Install fences by setting posts as indicated and fastening rails and panels to posts.
- C. Post Excavation: Drill or hand-excavate holes for posts in firm, undisturbed soil. Excavate holes to a diameter of not less than 4 times post size and a depth of not less than 24 inches plus 3 inches for each foot or fraction of a foot that fence height exceeds 4 feet.
- D. 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 and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - a. Exposed Concrete: Extend 2 inches above grade. Finish and slope top surface to drain water away from post.
 - b. Concealed Concrete: Top 2 inches below grade as indicated on Drawings to allow covering with surface material. Slope top surface of concrete to drain water away from post.
 3. Posts Set in Concrete: Extend post to within 6 inches of specified excavation depth, but not closer than 3 inches to bottom of concrete.

3.05 GATE INSTALLATION

- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.06 GROUNDING AND BONDING

- A. Fence Grounding: Install at maximum intervals of 1500 feet except as follows:
- B. Protection at Crossings of Overhead Electrical Power Lines: Ground fence at location of crossing and at a maximum distance of 150 feet on each side of crossing.
- C. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at grounding location.
- D. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.
- E. Connections: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact are galvanically compatible.
 1. Use electroplated or hot-tin-coated materials to ensure high conductivity and to make contact points closer in order of galvanic series.
 2. Make connections with clean, bare metal at points of contact.
 3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.

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4. Make aluminum-to-galvanized-steel connections with tin-plated copper jumpers and mechanical clamps.
 5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.
- F. Bonding to Lightning-Protection System: If fence terminates at lightning-protected building or structure, ground the fence and bond the fence grounding conductor to lightning-protection down conductor or lightning-protection grounding conductor, complying with NFPA 780.

3.07 FIELD QUALITY CONTROL

- A. Testing Agency: Engage and pay a qualified testing agency to perform tests and inspections.
1. Grounding-Resistance Tests: Subject completed grounding system to a megger test at each grounding location. Measure grounding resistance not less than two full days after last trace of precipitation, without soil having been moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural grounding resistance. Perform tests by two-point method according to IEEE 81.
 2. Excessive Grounding Resistance: If resistance to grounding exceeds specified value, notify Landscape Architect promptly. Include recommendations for reducing grounding resistance and a proposal to accomplish recommended work.
 3. Report: Prepare test reports of grounding resistance at each test location certified by a testing agency. Include observations of weather and other phenomena that may affect test results.

3.08 ADJUSTING AND CLEANING

- 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. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

3.09 PROTECTION

- A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at the time of Substantial Completion.
- B. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit or provide new units.

END OF SECTION 32 31 19

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."
 - 2. Section 32 93 00 "Plants" for trees, shrubs, ground covers, and other plants as well as border edgings and mow strips.

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.

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- 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.
- 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.

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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.

1.6 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.

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- B. Preconstruction Test Reports: For preconstruction soil analyses specified in "Preconstruction Testing" Article.
- C. Source quality-control test reports.
- 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.

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1. Multiple Laboratories: At Contractor's option, work may be divided among qualified testing laboratories specializing in physical testing, chemical testing, and fertility testing.
- 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.

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2. Procedures and Depth of Samples: According to USDA-NRCS's "Field Book for Describing and Sampling Soils."
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.

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5. Nitrogen ppm.
 6. Phosphorous ppm.
 7. Potassium ppm.
 8. Manganese ppm.
 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.

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- 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. 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.

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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.
 - 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.

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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 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 STATMECC 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 SENSORE 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 329300 "Plants" for trees, shrubs, ground covers, and other plants as well as border edgings and mow strips.
- 2. 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.

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1.4 REFERENCE STANDARDS

- A. ASTM C602 - Standard Specification for Agricultural Liming Materials; 2013a.

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.

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2. Submit qualifications of manufacturer.
3. Submit manufacturer's quality control program.
4. Submit example of Material Warranty and any other applicable warranties.

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.

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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.
- 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. 10 percent perennial ryegrass (*Lolium perenne*).
 - d. 10 percent redtop (*Agrostis alba*).
 - 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.

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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.
- 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.

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- 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.
- 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.

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- 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.

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.

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- 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.
- 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.
- L. Turf establishment is responsibility of contractor. Establishment to a minimum of 90% coverage.

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.

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- 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.
 - 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.

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- 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.
- 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 95% coverage.
 - 3. Performed three mowings.
 - 4. Performed fertilizing operation after mowing.

END OF SECTION 32 92 00

SECTION 32 93 00

PLANTS

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 INCLUDES

A. Section Includes:

- 1. New trees, plants, and ground cover.
- 2. Mulch and Fertilizer.
- 3. Maintenance.
- 4. Tree Pruning.

B. Related Requirements:

- 1. Section 01 56 39 "Tree/Shrub Removal and Protection" for protecting, trimming, pruning, repairing, and replacing existing trees to remain that interfere with, or are affected by, execution of the Work.
- 2. Section 32 91 13 "Soil Preparation" for related soil profiles.
- 3. Section 32 92 00 "Turf and Grasses" for turf (lawn) and meadow planting, hydroseeding, and erosion-control materials.

1.3 DEFINITIONS

- A. Backfill: The earth used to replace or the act of replacing earth in an excavation.
- B. Balled and Burlapped Stock: Plants dug with firm, natural balls of earth in which they were grown, with a ball size not less than diameter and depth recommended by ANSI Z60.1 for type and size of plant required; wrapped with burlap, tied, rigidly supported, and drum laced with twine with the root flare visible at the surface of the ball as recommended by ANSI Z60.1.
- C. Balled and Potted Stock: Plants dug with firm, natural balls of earth in which they are grown and placed, unbroken, in a container. Ball size is not less than diameter and depth recommended by ANSI Z60.1 for type and size of plant required.
- D. Bare-Root Stock: Plants with a well-branched, fibrous-root system developed by transplanting or root pruning, with soil or growing medium removed, and with not less than the minimum root spread according to ANSI Z60.1 for type and size of plant required.
- E. Container-Grown Stock: Healthy, vigorous, well-rooted plants grown in a container, with a well-established root system reaching sides of container and maintaining a firm ball when removed from container. Container shall be rigid enough to hold ball shape and protect root mass during shipping and be sized according to ANSI Z60.1 for type and size of plant required.
- F. Fabric Bag-Grown Stock: Healthy, vigorous, well-rooted plants established and grown in-ground in a porous fabric bag with well-established root system reaching sides of fabric bag. Fabric bag

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size is not less than diameter, depth, and volume required by ANSI Z60.1 for type and size of plant.

- G. Finish Grade: Elevation of finished surface of planting soil.
- H. Natural Disaster: The term "Natural Disaster" shall be defined as any event that is unpredictable and uncontrollable by the Landscape Architect, Owner, or Contractor. Any predictable and preventable event made known to the Contractor prior to installation shall not be defined as a Natural Disaster.
- I. 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. Some sources classify herbicides separately from pesticides.
- J. 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.
- K. Planting Area: Areas to be planted.
- L. 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" for drawing designations for planting soils.
- M. Plant; Plants; Plant Material: These terms refer to vegetation in general, including trees, shrubs, vines, ground covers, ornamental grasses, bulbs, corms, tubers, or herbaceous vegetation.
- N. Root Flare: Also called "trunk flare." The area at the base of the plant's stem or trunk where the stem or trunk broadens to form roots; the area of transition between the root system and the stem or trunk.
- O. Stem Girdling Roots: Roots that encircle the stems (trunks) of trees below the soil surface.
- P. 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.
- Q. Supplemental Planting Aids: Any and all supportive measures employed to ensure that installed plant material meets the requirements outlined in this specification at the end of the guarantee period.
- R. Weeds: Any plant life not specified or scheduled.
- S. Plants: Living trees, plants, and ground cover specified in this Section, and described in ANSI Z60.1.

1.4 REFERENCE STANDARDS

- A. ANSI/AHIA Z60.1 - American National Standard for Nursery Stock; 2014.
- B. ANSI/AHIA Z60.1 - American National Standard for Nursery Stock; 2014.

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1.5 COORDINATION

- A. Coordination with Turf Areas (Lawns): Plant trees, shrubs, and other plants after finish grades are established and before planting turf areas unless otherwise indicated.
1. When planting trees, shrubs, and other plants after planting turf areas, protect turf areas, and promptly repair damage caused by planting operations.

1.6 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.
 - a. Maintenance procedures for surrounding streets, walks, paving and site amenities.
 - b. Procedures for work on public property.
 - c. Plant locations and procedures for adjustment.
 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.

1.7 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. Written manufacturer's warranty.
 4. Product liability insurance certificate with project owner as certificate holder.
 5. MSDS for items in Part 2 "Products."
 6. Plant Materials: Include quantities, sizes, quality, and sources for plant materials.
 7. Plant Photographs: Include color photographs in digital format of each required species and size of plant material as it will be furnished to Project. Contractor to provide photographs of both individual plants and the block of plants if species quantity is more than one (1) of the same size. Take photographs from an angle depicting true size and condition of the typical plant to be furnished. Include a scale rod or other measuring device in each photograph in addition to a human figure. Where applicable also provide an image of each species and size showing root mass. For species where more than 20 plants are required, include a minimum of three photographs showing the average plant, the best quality plant, and the worst quality plant to be furnished. Identify each

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photograph with the full scientific name of the plant, plant size, and name of the growing nursery.

8. Tree Tagging: Contractor or nursery shall locate all trees and tag them with a seal. Contractor is to photograph each individual tree and provide each image with the seal number, variety, size, and nursery location labeled on the image. No trees shall be accepted unless they have a seal from the contractor or landscape architect.

- a. In addition to review of plant material photographs, Landscape Architect may inspect and tag plant material at nursery. Such inspection shall be in addition to inspection at job site.

9. Tagging Log: Contractor shall keep a log detailing information for each tagged tree. Such information shall include the source nursery where the material is tagged, location within nursery, size of trees, tag or seal numbers, colors of flagging tape (if applicable), canopy height, spread, and branching height. Provide submittal before beginning construction.

B. Samples for Verification: For each of the following:

1. Mulch: 1-quart (1-L) volume of each organic mulch required; in sealed plastic bags labeled with composition of materials by percentage of weight and source of mulch. Each Sample shall be typical of the lot of material to be furnished; provide an accurate representation of color, texture, and organic makeup.
2. Slow-Release, Tree-Watering Device: One unit of each size required.

1.8 INFORMATIONAL SUBMITTALS

A. Qualification Data: For landscape Installer. Include list of similar projects completed by Installer demonstrating Installer's capabilities and experience. Include project names, addresses, and year completed, and include names and addresses of owners' contact persons.

B. Product Certificates: For each type of manufactured product, from manufacturer, and complying with the following:

1. Manufacturer's certified analysis of standard products.
2. Analysis of other materials by a recognized laboratory made according to methods established by the Association of Official Analytical Chemists, where applicable.

C. Percolation Test: After the Contractor has performed percolation tests the Contractor shall submit a log of the percolation rates, with a plan outlining the locations of each test pit before planting trees. Provide submittal before beginning construction.

D. Site Visit Record: After each site visit during the guarantee period, the Contractor shall submit a written record of the visit, including any problems, potential problems, and any recommended corrective action.

E. Source quality-control test reports.

F. Field quality-control and special inspection reports.

G. Maintenance Instructions.

1.9 QUALITY ASSURANCE

A. Investigate sources of supply and confirm they can supply plants specified on plant list in sizes, variety, and quality noted and specified. Failure to take this precaution will not relieve

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responsibility for furnishing and installing plant material in accordance with Contract requirements. Substitutions may be permitted only upon submission of written proof that specified plant is not obtainable locally. Such substitution may be made upon written authorization by Architect/Engineer of Record.

- B. Installer Qualifications: Company specializing in installing and planting the plants specified with 5 years experience successfully completing projects of a similar size and value.
1. Perform planting by personnel familiar with accepted landscape planting procedures. A qualified foreman, with a minimum of 5 years experience installing plant material is to be on-site during planting procedures.
- C. Plant Material: All plants shall be obtained from reputable nurseries, licensed by the State of Illinois and approved by the Landscape Architect.
- D. Product Substitutions:
1. Products proposed for substitution shall be submitted to the Landscape Architect for approval. Only Approved substitutions for specified products shall be acceptable.
 2. Contractor and Manufacturer of substitute material shall submit written guarantee that substitute product(s) matches specified product in every way.
 3. The contractor shall be held solely and completely liable for any construction failure resulting from the use of materials unspecified or unapproved by the Landscape Architect.
 4. The contractor shall be held solely and completely liable for any construction failure resulting from the use of materials approved by the Client or Owner, without the knowledge of the Architect and/or Landscape Architect.
- E. Unavailability of Plant Material:
1. Substitutions must be approved by the Landscape Architect.
 2. In the event that the Landscape Contractor cannot find the specified plant material, the Landscape Architect may require that the Landscape Contractor find the plant material using a plant broker.
 3. The Contractor shall be held solely and completely liable for any failure resulting from the use of plant materials unspecified or unapproved by the Landscape Architect. At the Landscape Architect's discretion, the Contractor may be asked to remove unspecified or unapproved plant material and replace with Landscape Architect approved plant material.
- F. Rejection of Plant Material:
1. The Landscape Architect has the right to reject any and all plant material that does not conform to the requirements of this specification.
 2. Evidence of damage to plant material, which destroys the natural character of the plant, shall be cause for rejection.
 3. When a plant has been rejected, remove it from the area of the work and replace it with one of the required size and quality. Replacement plant material shall be approved by Landscape Architect, as documented in Part 1-General, 1.4 Quality Assurance, B. Selection of Plant Material. The Contractor shall bear the total cost of replacing rejected plant material.
 4. Any plant that has the following characteristics shall be cause for rejection:
 - a. Any tree that has a canopy with 50% or more dead limbs.

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- b. Any tree that has dead limbs that, when removed, will result in the loss of 30% or more of the structure and form of the canopy of the tree.
 - c. Any tree that is of a species that characteristically has a dominant central leader, and if the leader is dead, when removed the tree will not have a form consistent with the species.
 - d. The plant material does not meet Landscape Architect's expectations based upon the photographs.
5. Any tree that has open wounds (not completely healed over) that penetrates the bark to the wood on trunks or major limbs the removal of which would result in the loss of 30% or more of the structure and form of the tree.

1.10 REGULATORY REQUIREMENTS

- A. Comply with State of Illinois and federal laws with respect to inspection of all plants for plant diseases and insect infestation. Submit an inspection certificate, required by law to this effect, with each shipment.

1.11 DELIVERY, STORAGE, AND HANDLING

- A. 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.
- B. 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.
- C. Deliver bare-root stock plants within 36 hours of digging. Immediately after digging up bare-root stock, pack root system in wet straw, hay, or other suitable material to keep root system moist until planting. Transport in covered, temperature-controlled vehicles, and keep plants cool and protected from sun and wind at all times.
- D. Do not prune trees and shrubs before delivery. Protect bark, branches, and root systems from sun scald, drying, wind burn, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of plants during shipping and delivery. Do not drop plants during delivery and handling.
- E. Handle planting stock by root ball.
- F. Store bulbs, corms, and tubers in a dry place at 60 to 65 deg F (16 to 18 deg C) until planting.
- G. Apply antidesiccant to trees and shrubs using power spray to provide an adequate film over trunks (before wrapping), branches, stems, twigs, and foliage to protect during digging, handling, and transportation.
 - 1. If deciduous trees or shrubs are moved in full leaf, spray with antidesiccant at nursery before moving and again two weeks after planting.

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- H. Wrap trees and shrubs with burlap fabric over trunks, branches, stems, twigs, and foliage to protect from wind and other damage during digging, handling, and transportation.
- I. Deliver plants after preparations for planting have been completed, and install immediately. If planting is delayed more than six hours after delivery, set plants and trees in their appropriate aspect (sun, filtered sun, or shade), protect from weather and mechanical damage, and keep roots moist.
 - 1. Heel-in bare-root stock. Soak roots that are in less than moist condition in water for two hours. Reject plants with dry roots.
 - 2. Set balled stock on ground and cover ball with soil, peat moss, sawdust, or other acceptable material.
 - 3. Do not remove container-grown stock from containers before time of planting.
 - 4. Water root systems of plants stored on-site deeply and thoroughly with a fine-mist spray. Water as often as necessary to maintain root systems in a moist, but not overly wet condition.
 - 5. Plants shall not remain unplanted for longer than 3 days.
 - 6. Set trees and plants in shade, protect from weather and mechanical damage, and keep roots moist by covering with mulch, burlap or other means acceptable to the Landscape Architect for retaining moisture.
 - 7. The duration, method, and location of storage of plant materials shall be subject to the approval of the Landscape Architect.
 - 8. Provide proper spacing for trees, such that the stockpiled plant material has full access to light and air. Take all precautions to prevent defoliation of stockpiled material.
 - 9. Plant material subject to improper storage procedures shall be rejected.
 - 10. Contractor shall determine if there is sufficient space available to properly stockpile plant material at the time of bidding.
- J. Take precautions in accordance with best trade practices to ensure arrival of plant material at job site in good condition and without injury. Cover plants to prevent drying, transit disease or injury.
- K. Deliver fertilizer to site in original, unopened containers bearing manufacturer's guaranteed chemical analysis, name, trade name, trademark, and conformance to state law.
- L. Each shipment shall be accompanied by invoice showing sizes and varieties of plants included in each shipment. Provide copy of invoice to Architect/Engineer of Record upon delivery of plant material.
 - 1. Upon delivery and before planting request inspection of plants by Architect/Engineer of Record.
 - 2. Notify Architect/Engineer of Record, a minimum of 24 hours before delivery of plant material.
 - 3. Failure to notify Architect/Engineer of Record in advance, in order to arrange proper scheduling may result in loss of time or removal of plant or plants not installed as specified or directed.
 - 4. Inspection and approval is for quality, size, and variety only, and in no way impairs right of rejection for failure to meet other requirements during progress of Work.
 - 5. Contractor shall be present during required inspection or as may be required by Architect/Engineer of Record.
- M. Protect roots of plant material from drying or other possible injury.
- N. Water plants as necessary until planted.

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- O. Store fertilizer, humus, and spray materials in weatherproof storage areas and in such manner that their effectiveness will not be impaired.
- P. On-Site Staging and / or Storage
 - 1. With prior approval by the Owner’s representative, plant material may be staged or stored on-site in an approved location.
 - 2. The Contractor assumes all responsibility for vandalism, damage and/or theft of stored plant material and shall replace all vandalized, damaged or stolen plant material at no additional cost to the Owner.
 - 3. Plant material with large root balls are to be positioned and braced in such a way as to prevent tipping or other root movement that could result in damage to the root ball(s) and/or create a hazardous condition persons.
 - 4. Where necessary, the foliage of stored plant material is to be rinsed periodically to remove harmful construction dust as required to maintain plant health.

1.12 FIELD CONDITIONS

- A. Field Measurements: Verify actual grade elevations, service and utility locations, irrigation system components, and dimensions of plantings and construction contiguous with new plantings by field measurements before proceeding with planting work.
- B. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with maintenance periods to provide required maintenance from date of Substantial Completion.
 - 1. Spring Planting: From time soil becomes workable to June 15. Fall Planting: September 1 to November 15. Plant evergreen shrub plantings no later than November 1, and evergreen tree plantings no later than October 15.
 - 2. Summer Season: July 1 through August 31. Planting shall be considered unseasonable and shall require approval by Landscape Architect. Approval to plant under such conditions shall in no way relieve Contractor from guarantee provisions of these specifications.
 - 3. Container Plants: Planting season designated above may be extended for container grown plants when approved by Landscape Architect.
- C. Planting shall only be performed when weather and soil conditions are suitable for planting the materials specified in accordance with locally accepted practice. Install plant materials during the planting time as described below unless otherwise directed by the Landscape Architect. Planting shall not occur if soil profiles or frozen or if there is a risk of frost. Coordinate planting periods with maintenance periods to provide required maintenance from date of Substantial Completion.
 - 1. Evergreen Trees: April 1 – July 1 and September 1 - November 1
 - 2. Evergreen Shrubs: April 1 – July 1 and September 1 - November 1
 - 3. Deciduous Trees: April 1 – July 1 and September 1 - November 1
 - 4. Deciduous Shrubs: April 1 – July 1 and September 1 - November 1
 - 5. Vines: April 1 – July 1 and September 1 - November 1
 - 6. Ornamental Grasses: April 1 – July 1 and September 1 - November 1
 - 7. Perennials: April 1 – July 1 and September 1 - November 1
 - 8. Groundcover: April 1 – July 1 and September 1 - November 1
 - 9. Bulbs: October 1 - December 1
 - 10. Container Plants: Planting season designated above may be extended for container grown plants as approved by LA

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- D. 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 and warranty 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. Special Warranty: Installer agrees to repair or replace plantings and accessories that fail in materials, workmanship, or growth within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Death and unsatisfactory growth, except for defects resulting from abuse, lack of adequate maintenance, or neglect by Owner.
 - b. Structural failures including plantings falling or blowing over.
 - c. Faulty performance of products.
 - d. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 2. Warranty Periods: From date of Substantial Completion.
 - a. Trees, Shrubs, Vines, and Ornamental Grasses: 12 months.
 - b. Ground Covers, Biennials, Perennials, and Other Plants: 12 months.
 - c. Annuals: Three months.
 - 3. Include the following remedial actions as a minimum:
 - a. Immediately remove dead plants and replace unless required to plant in the succeeding planting season.
 - b. Replace plants that are more than 25 percent dead or in an unhealthy condition at end of warranty period.
 - c. A limit of one replacement of each plant is required except for losses or replacements due to failure to comply with requirements.
 - d. Provide extended warranty for period equal to original warranty period, for replaced plant material.

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PART 2 - PRODUCTS

2.1 PLANTS

- A. General: Furnish nursery-grown plants true to genus, species, variety, cultivar, stem form, shearing, and other features indicated in Plant List, Plant Schedule, or Plant Legend indicated on Drawings and complying with ANSI Z60.1; and with healthy root systems developed by transplanting or root pruning, grown in climatic conditions similar to those in locality of the work. Provide well-shaped, fully branched, healthy, vigorous stock, densely foliated when in leaf and free of disease, pests, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement.
 - 1. Trees with damaged, crooked, or multiple leaders; tight vertical branches where bark is squeezed between two branches or between branch and trunk ("included bark"); crossing trunks; cut-off limbs more than 3/4 inch (19 mm) in diameter; or with stem girdling roots are unacceptable.
 - 2. Collected Stock: Do not use plants harvested from the wild, from native stands, from an established landscape planting, or not grown in a nursery unless otherwise indicated.
- B. Provide plants of sizes, grades, and ball or container sizes complying with ANSI Z60.1 for types and form of plants required. Plants of a larger size may be used if acceptable to Architect, with a proportionate increase in size of roots or balls.
- C. Root-Ball Depth: Furnish trees and shrubs with root balls measured from top of root ball, which begins at root flare according to ANSI Z60.1. Root flare shall be visible before planting.
- D. Labeling: Label at least one plant of each variety, size, and caliper with a securely attached, waterproof tag bearing legible designation of common name and full scientific name, including genus and species. Include nomenclature for hybrid, variety, or cultivar, if applicable for the plant.
- E. If formal arrangements or consecutive order of plants is indicated on Drawings, select stock for uniform height and spread, and number the labels to assure symmetry in planting.
- F. Annuals and Biennials: Provide healthy, disease-free plants of species and variety shown or listed, with well-established root systems reaching to sides of the container to maintain a firm ball, but not with excessive root growth encircling the container. Provide only plants that are acclimated to outdoor conditions before delivery.
- G. Provide nursery grown plant material. Provide plants grown within same hardiness zone as project site or have been acclimated to conditions of same hardiness zone for minimum of two growing seasons. Hardiness zones shall conform to "Zones of Plant Hardiness" as provided by U.S. Department of Agriculture.
- H. Unless specifically noted otherwise, provide plants of selected specimen quality, have normal habit of growth and be sound, healthy, vigorous plants with well-developed root systems, free of disease, insect pests, their eggs or larvae, and injuries.
- I. Do not prune before delivery. Prune only at time of planting.
- J. Plants shall be freshly dug or container-grown. No heeled-in plants or plants for cold storage will be accepted, except as otherwise specified, unless Contractor makes such request in writing and plants are inspected and approved.
- K. Plant Size and Species:

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1. Measure plants when branches are in their normal position. Height and spread refer to plant's main body and not from branch tip to branch tip.
2. Take caliper measurement at point on trunk 6 inches above natural ground line for trees up to 4 inches in caliper and at point 12 inches above natural ground line for trees 4 inches and over in caliper.
3. If range of size is given, no plant shall be less than minimum size and not less than 50% of plants shall be as large as upper half of range specified.
4. Measurements specified are minimum size acceptable and are measurements after pruning, where pruning is required. Plants meeting measurements specified, but not producing normal balance between height and spread, are not acceptable.
5. Shrubs shall be matched specimens from single block source.
6. Plants shall be true to species and variety and shall conform to measurement specified in Plant List except that plants larger than specified may be used if approved by Architect/Engineer of Record. Use of such plants shall not result in increase in Contract price. If larger plants are approved, increase ball of earth in proportion to size of plant.
7. Where plants larger than specified have been submitted in writing for approval and approved in writing by Architect/Engineer of Record, Contractor shall assume responsibility of guarantee for plant in size as planted.

L. Balled and Burlapped Plants (Designated B&B):

1. Dig plants with firm natural balls of earth of diameter indicated below and of sufficient depth to encompass fibrous and feeding root system necessary for full recovery of plant.
2. Plants having balls broken or cracked during delivery or at time of planting will be rejected.
3. For Evergreen trees, trunk diameter shall be used to determine minimum required ball dimensions. Minimum ball dimensions shall be those as specified for single stem trees.
4. Diameter at top of each ball shall be diameter specified above and diameter at bottom of each ball shall not be less than 70% of specified top diameter. Top and bottom sources shall be parallel.
5. Ball shall be of specified depth at points perpendicular to bottom of ball.
6. Balls greater than 30 inches diameter shall be drum-laced.
7. Architect/Engineer of Record may reject any plant specified as balled and burlapped which fails to conform, in the Architect/Engineer of Record's opinion, to balling requirements set forth herein.

M. Container or Pot Grown Plants:

1. Container grown plants shall have heavy fibrous root system, or well developed taproot, that has been developed by proper horticultural practice including transplanting and root pruning.
2. Root system shall have developed sufficiently long for new fibrous roots to develop so root mass will retain its shape and hold together when removed from container.
3. In no case should container strangle or girdle natural growth of plant.
4. Groundcovers in containers pots shall have the minimum number of runners and length of runners in accordance with ANSI/AHIA Z60.1.
5. Diameter of spread shall determine inside diameter of pot in which they shall be grown for at least 3 months prior to delivery.
6. Plant container sizes shall conform to ANSI/AHIA Z60.1.

N. Deciduous (Shade and Ornamental Trees):

1. Tree plantings shall be free of branches equivalent to 1/2 of tree height or so that crown of tree is in proportion to trunk as tree grows.

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- a. Trees with ascending branches may be branched 1 foot or more below branch heights as listed.
2. Provide trees of specimen quality.
- O. Evergreen Trees/Shrubs:
 1. Provide evergreen trees of specimen quality.
 2. Provide evergreen shrubs of specimen quality.
 3. Columnar plants:
 - a. Provide columnar plants of specimen quality.
- P. Deciduous Shrubs:
 1. Provide deciduous shrubs of specimen quality.
- Q. Perennial, Biennials, Prairie Forbes, and Grasses:
 1. Perennial, biennials, prairie forbs, and grasses specified as "container" or "pot" shall be provided as container grown plants, or shall be provided with firm natural balls of earth with diameter and depth in accordance with American Standard for Nursery Stock for size specified on Plant List.
 2. Ship balled plants in open-air boxes or crates that will minimize handling of each plant prior to installation. Do not plant balled plants if ball is cracked or broken either before or during process of planting.

2.2 FERTILIZERS

- A. Planting Tablets: Tightly compressed chip-type, long-lasting, slow-release, commercial-grade planting fertilizer in tablet form. Tablets shall break down with soil bacteria, converting nutrients into a form that can be absorbed by plant roots.
 1. Size: 10-gram tablets.
 2. Nutrient Composition: 20 percent nitrogen, 10 percent phosphorous, and 5 percent potassium, by weight plus micronutrients.

2.3 MULCHES

- A. Organic Mulch: Free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of one of the following:
 1. Type: Shredded hardwood bark mulch
 2. Size Range: 60% shall range between 1 inch and 3 inches in length; remaining 40% shall not exceed 1-1/2 inches
 3. Color: Natural.
 4. Installation Depth: 3 inches.

2.4 TREE WATERING DEVICES

- A. Slow-Release Watering Device: Standard product manufactured for drip irrigation of plants and emptying its water contents over one to two weeks; manufactured from UV-light-stabilized nylon-reinforced polyethylene sheet, PVC, or HDPE plastic.
 1. Color: green.

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2.5 ACCESSORIES

- A. Wood Pressure-Preservative Treatment: AWWPA U1, Use Category UC4a; acceptable to authorities having jurisdiction, and containing no arsenic or chromium.
- B. Antidesiccant: Water-insoluble emulsion, permeable moisture retarder, film forming, for trees and shrubs. Deliver in original, sealed, and fully labeled containers and mix according to manufacturer's written instructions.
- C. Drainage material: Free draining aggregate meeting the requirements of IDOT CA7 and having a pH of 5.5 - 7. Comply with the requirements of Section 32 91 15 Soil Preparation.
- D. Filter fabric: Nonbiodegradable, needle-punched, non-woven, water permeable, 100% continuous polypropylene or polyester fabric, 3 oz. per sq. yd. minimum, designed for drainage applications without clogging or piping. Capable of withstanding backfilling and compacting operations without tearing or deforming.
- E. Wrapping Materials: Burlap, Non-synthetic, biodegradable.
- F. Stakes: Softwood lumber, pointed end.
- G. Mycorrhizal Fungi: Dry, granular inoculant containing at least 5300 spores per lb (0.45 kg) of vesicular-arbuscular mycorrhizal fungi and 95 million spores per lb (0.45 kg) of ectomycorrhizal fungi, 33 percent hydrogel, and a maximum of 5.5 percent inert material.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive plants, with Installer present, for compliance with requirements and conditions affecting installation and performance of the Work.
 - 1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
 - 2. Verify that plants and vehicles loaded with plants can travel to planting locations with adequate overhead clearance.
 - 3. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
 - 4. Uniformly moisten excessively dry soil that is not workable, or which is dusty.
- B. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.
- C. Verify that prepared subsoil is ready to receive work.
- D. Do not install plantings where depth of soil over underground construction, obstructions or rock is insufficient to accommodate roots or where pockets in rock or impervious soil will require drainage. Where such conditions encountered in excavation planting areas and where stone, boulders or other obstruction cannot be broke or removed by hand methods and where trees to be planted found under overhead wires, bring to the attention of the Architect/Engineer of Record. Alternate locations for planting may be designated by Architect/Engineer of Record.

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- E. Remove rock or other underground construction and drain planting areas only when approved by Architect/Engineer of Record.
- F. Verify location of underground utilities with appropriate sources prior to construction. Contact J.U.L.I.E. at least 48 hours before commencing with construction operations. Repair damaged utilities.
- G. Conflicts with utilities shall be called to the Architect/Engineer of Record's attention before proceeding with work. Alternate locations for planting may be designated by Architect/Engineer of Record.
- H. Confirm that utility work has been completed per the drawings.
- I. Examine the sub-grade for evidence of compaction. Examine rubble conditions as to extent shown on Soil Borings, observe the conditions under which work is to be performed, and notify Landscape Architect in writing of any unsatisfactory conditions.
- J. Percolation Test: Contractor is mandated to perform percolation tests to determine the permeability of the sub-grade. For every 5-15 trees and shrubs in a general area, excavate a 12" diameter x 12" deep test pit. Fill each pit with water and allow water to percolate out. Test pits shall be roped off at all times and filled in when test is complete. If water does not percolate out over a 12-hour period, contact Landscape Architect. Although only one tree percolation test is required for every 15 trees, the Landscape Contractor is still responsible for ensuring that every tree drains properly.
- K. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities and turf areas and existing plants from damage caused by planting operations.
- B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.
- C. Lay out individual tree and shrub locations and areas for multiple plantings. Stake locations, outline areas, adjust locations when requested, and obtain Architect's acceptance of layout before excavating or planting. Make minor adjustments as required. Provide 48 hours' notice for approval. Contractor to be present during approval. Make adjustments in locations and outlines as required. In event that pits or areas for planting are prepared and backfilled with topsoil to grade prior to commencement of lawn operations, mark so they can be readily located when work of planting proceeds.
- D. Remove foreign materials, weeds and undesirable plants and their roots. Remove contaminated subsoil.
- E. Cover surrounding turf (if existing) in manner to protect turfed areas that are to be trucked or hauled over and upon which soil is to be temporarily stocked.
- F. Maintain at least one stockpile of topsoil for backfilling plants during planting operations.

3.3 TOPSOIL/FINISH GRADING

- A. Place topsoil during dry weather and on dry unfrozen subgrade. Do not place or work topsoil in frozen or muddy condition.

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- B. Remove vegetable matter and foreign non-organic material from topsoil while spreading.
- C. Establish final grade as shown on drawings. Grades not otherwise indicated are uniform levels or slopes between points where elevations are given or between such points and existing finished grades.
- D. Where drawings show existing grades of landscaped areas not to be changed remove enough material to allow placement of 18in. of new topsoil and 6 inches of drainage material beneath shrub plantings and 24 inches of topsoil minimum beneath tree plantings, unless existing topsoil to required depth is undisturbed and of equal or better quality than specified herein. In latter case, existing topsoil may be left in place and use only enough new topsoil to bring these areas up to grade.

3.4 PLANTING AREA ESTABLISHMENT

- A. General: Prepare planting area for soil placement and mix planting soil according to Section 329113 "Soil Preparation."
- B. Placing Planting Soil: Place and mix planting soil in-place over exposed subgrade.
- C. Before planting, obtain Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.
- D. Application of Mycorrhizal Fungi: At time directed by Architect, broadcast dry product uniformly over prepared soil at application rate according to manufacturer's written recommendations.

3.5 EXCAVATION FOR TREES AND SHRUBS

- A. Planting Pits and Trenches: Excavate circular planting pits.
 - 1. Excavate planting pits with sides sloping inward at a 45-degree angle. Excavations with vertical sides are unacceptable. Trim perimeter of bottom leaving center area of bottom raised slightly to support root ball and assist in drainage away from center. Do not further disturb base. Ensure that root ball will sit on undisturbed base soil to prevent settling. Scarify sides of planting pit smeared or smoothed during excavation.
 - 2. Excavate approximately three times as wide as ball diameter for balled and burlapped, balled and potted, container-grown and fabric bag-grown stock.
 - 3. Excavate at least 12 inches (300 mm) wider than root spread and deep enough to accommodate vertical roots for bare-root stock.
 - 4. Do not excavate deeper than depth of the root ball, measured from the root flare to the bottom of the root ball.
 - 5. If area under the plant was initially dug too deep, add soil to raise it to the correct level and thoroughly tamp the added soil to prevent settling.
 - 6. Maintain angles of repose of adjacent materials to ensure stability. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.
 - 7. Maintain supervision of excavations during working hours.
 - 8. Keep excavations covered or otherwise protected when unattended by Installer's personnel.
 - 9. If drain tile is indicated on Drawings or required under planting areas, excavate to top of porous backfill over tile.
- B. Backfill Soil: Subsoil and topsoil removed from excavations may not be used as backfill soil unless otherwise indicated.

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- C. Obstructions: Notify Architect if unexpected rock or obstructions detrimental to trees or shrubs are encountered in excavations.
 - 1. Hardpan Layer: Drill 6-inch- (150-mm-) diameter holes, 24 inches (600 mm) apart, into free-draining strata or to a depth of 10 feet (3 m), whichever is less, and backfill with free-draining material.
- D. Drainage: Notify Architect if subsoil conditions evidence unexpected water seepage or retention in tree or shrub planting pits.
- E. Fill excavations with water and allow to percolate away before positioning trees and shrubs.
- F. Remove excess soil materials from site in accordance with environmental specifications.

3.6 TREE, SHRUB, AND VINE PLANTING

- A. Inspection: At time of planting, verify that root flare is visible at top of root ball according to ANSI Z60.1. If root flare is not visible, remove soil in a level manner from the root ball to where the top-most root emerges from the trunk. After soil removal to expose the root flare, verify that root ball still meets size requirements.
- B. Roots: Remove stem girdling roots and kinked roots. Remove injured roots by cutting cleanly; do not break.
- C. Balled and Burlapped Stock: Set each plant plumb and in center of planting pit or trench with root flare 2 inches (50 mm) above adjacent finish grades unless otherwise noted or unless root balls are to be placed under sod profiles.
 - 1. Backfill: Planting soil.
 - 2. After placing some backfill around root ball to stabilize plant, carefully pull down 1/3 of burlap, rope, and wire baskets from tops of root balls and from sides. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.
 - 3. Backfill around root ball in 12-inch layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
 - 4. Place planting soil supplements equally distributed around each planting pit when pit is approximately one-half filled or per Manufacturer's instructions.
 - a. Quantity: Per Manufacturer instructions.
 - 5. Continue backfilling process. Water again after placing and tamping final layer of soil.
 - 6. Remove nursery plant identification tags.
- D. Balled and Potted and Container-Grown Stock: Set each plant plumb and in center of planting pit or trench with root flare 2 inches (50 mm) above adjacent finish grades.
 - 1. Backfill: Planting soil.
 - 2. Carefully remove root ball from container without damaging root ball or plant.
 - 3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. Roots that are encircling ball shall be cut to prevent girdling and promote root spread and growth.
 - 4. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.

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5. Place planting soil supplements equally distributed around each planting pit when pit is approximately one-half filled or per Manufacturer's instructions.
 - a. Quantity: Per Manufacturer instructions.
 6. If growing medium is comprised of 75% or more of peat, perlite, sand or like material other than soil, pull visible roots away from container medium so as to leave roots partially exposed.
 7. Continue backfilling process. Water again after placing and tamping final layer of soil.
 8. Remove nursery plant identification tags.
- E. Fabric Bag-Grown Stock: Set each plant plumb and in center of planting pit or trench with root flare 2 inches (50 mm) above adjacent finish grades.
1. Backfill: Planting soil.
 2. Carefully remove root ball from fabric bag without damaging root ball or plant. Do not use planting stock if root ball is cracked or broken before or during planting operation.
 3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
 4. Place planting soil supplements equally distributed around each planting pit when pit is approximately one-half filled or per Manufacturer's instructions.
 - a. Quantity: Per Manufacturer instructions.
 5. Continue backfilling process. Water again after placing and tamping final layer of soil.
 6. Remove nursery plant identification tags.
- F. Bare-Root Stock: Set and support each plant in center of planting pit or trench with root flare 2 inches (50 mm) above adjacent finish grade.
1. Backfill: Planting soil.
 2. Spread roots without tangling or turning toward surface. Plumb before backfilling and maintain plumb while working.
 3. Carefully work backfill in layers around roots by hand. Bring roots into close contact with the soil.
 4. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
 5. Place planting soil supplements equally distributed around each planting pit when pit is approximately one-half filled or per Manufacturer's instructions.
 - a. Quantity: Per Manufacturer instructions.
 6. Continue backfilling process. Water again after placing and tamping final layer of soil.
 7. Remove nursery plant identification tags.
- G. Slopes: When planting on slopes, set the plant so the root flare on the uphill side is flush with the surrounding soil on the slope; the edge of the root ball on the downhill side will be above the surrounding soil. Apply enough soil to cover the downhill side of the root ball.

3.7 MECHANIZED TREE-SPADE PLANTING

- A. Trees may be planted with an approved mechanized tree spade at the designated locations. Do not use tree spade to move trees larger than the maximum size allowed for a similar field-grown, balled-and-burlapped root-ball diameter according to ANSI Z60.1, or larger than

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manufacturer's maximum size recommendation for the tree spade being used, whichever is smaller.

- B. Use the same tree spade to excavate the planting hole as will be used to extract and transport the tree.
- C. When extracting the tree, center the trunk within the tree spade and move tree with a solid ball of earth.
- D. Cut exposed roots cleanly during transplanting operations.
- E. Plant trees following procedures in "Tree, Shrub, and Vine Planting" Article.
- F. Where possible, orient the tree in the same direction as in its original location.

3.8 TREE, SHRUB, AND VINE PRUNING

- A. Pruning of trees and shrubs is to be performed by Certified Arborists only, unless otherwise approved in advance by the project manager. Prune as directed by Landscape Architect until Final Acceptance.
- B. All plant material shall be inspected regularly, during the performance of other maintenance duties, to determine the need for pruning to remove dead, weak, damaged, or diseased wood, and rubbing or overlapping branches.
- C. Pruning shall be done with clean, sharp hand pruners or pruning saws. The use of hatchets, axes, shovels or other implements not specifically designed for pruning is prohibited. The use of hedge shears shall be prohibited except for the pruning of specified hedges.
- D. All cuts shall be clean and done with properly sharpened tools. When diseased material is pruned, tools shall be properly disinfected before further use.
- E. Make cuts flush and clean avoiding injury to branch bark ridge or branch collar leaving no stubs.
- F. For cuts greater than 3/4 in. in diameter and bruises or scars on bark, trace injured cambium back to living tissue and remove. Smooth and shape wounds so as not to retain water.
- G. Prune flowering trees only to remove dead or damaged branches. Do not remove leader.
- H. All debris generated from pruning operations is to be properly disposed of, off Owner Property, at the end of each work day.
- I. Trees:
 - 1. Trees are to be pruned only as necessary to remove:
 - a. Dead or injured twigs, branches and/or limbs
 - b. Watersprouts and other undesirable adventitious growth arising from the trunk or branches
 - c. Sucker shoots and other undesirable basal sprouts. Basal sprouts are to be cut cleanly below the soil line; cut stubs are to be covered with soil to prevent resprouting.

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2. Pruning shall be done in such a manner as not to change the natural shape or habit of the tree.
3. All cuts shall be made so as to produce a small collar, but leave no stubs. Cuts shall be made in such a manner as to preclude the tearing, stripping or other damage to adjacent bark, limbs or branches.
4. Cuts shall be made back to a bud, branch or main trunk. Collar cuts shall be made at tree trunks.
5. Limbs over 2" diameter shall be removed with three cuts. The first cut is to undercut by sawing through one-third of the limb. This shall not be more than one foot from the trunk. The second cut is an uppercut one to two inches from the first cut, away from the trunk, on the top of the branch, continued until the branch falls. The third cut shall be to remove the stub with an appropriate flush cut at the trunk.

J. Shrubs:

1. Shrubs are to be pruned as necessary to remove dead and/or injured twigs, branches and limbs. Pruning shall be done in such a manner as not to change the natural shape or habit of the shrub.
2. Shrubs to be renewal pruned will receive such pruning once annually at the optimum time of year for the individual shrub species, generally immediately following flowering; the method of renewal pruning and the percentage of material removed shall be appropriate for the individual shrub species.
3. When pruning shrubs, the natural shape of the plant is to be maintained at all times. No shearing of shrubs will be permitted except for plantings designated as hedges.

K. Hedges:

1. Hedges are to be sheared as often as necessary during the growing season to maintain a clean, crisp appearance.
2. During hedge work, all weed or volunteer plants growing in or through hedge plantings are to be removed cleanly at the base; shearing to height along with the hedge will not be acceptable.

L. Herbaceous plant material:

1. Annuals and perennials shall be continuously dead-headed to maintain the planting spaces and/or promote flowering or plant growth.
2. Herbaceous plant material shall be cut or pruned back, in the method appropriate to the type of plant material and specific landscape intent, to promote dense, compact growth and optimal flowering.
3. Groundcover plantings are to be pruned as necessary to remove dead and/or injured twigs, branches and/or stems, and to keep the plants within the area of planting and from overrunning adjacent plantings.
4. Prior to the start of spring growth, all dead and/or dried stems, seed-heads, etc. from the previous winter are to be cut back and removed.
5. In fall, cut back perennials and ornamental grasses as necessary, with the exception of those to remain for winter interest.

3.9 STAKING, GUYING AND TYING:

- A. Staking or guying of woody plant material: Woody plant material is only to be staked or guyed when out of plumb due to settling, wind damage, etc. or at the direction of the Owner Representative.
- B. Staking and tying of herbaceous plant material:

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1. Herbaceous plant material is to be staked and tied as necessary to keep plants upright and promote optimal plant health, growth and flowering.
2. Materials
 - a. Stakes are to be natural bamboo or other approved material, of sufficient thickness to adequately support the material being staked.
 - b. Tying material is to be natural twine or other approved material of inconspicuous color.
3. Installation and maintenance:
 - a. Stakes are to be installed as inconspicuously as possible. The final height is to be no taller than the material being staked; stakes are not to be visible above the adjacent plant material, once the material has achieved its final height.
 - b. Stakes are to be installed closely enough to each other to ensure that the tied material maintains a natural habit; the amount of material gathered into each tied area is to be no more than necessary. Staking of large groups of plants en masse will not be permitted.
 - c. Ties are to be installed as inconspicuously as possible.
 - d. Plant material is to be staked before becoming top-heavy or over-grown.
 - e. Stakes and ties are to be maintained intact as long as necessary to achieve the desired effect. When necessary, or as directed, stakes and tying materials are to be completely removed and disposed of appropriately.

3.10 EDGING OF BEDS AND TREE RINGS

- A. All tree rings and planting beds which border on lawn or turf areas are to be edged as necessary to maintain a clean, crisp appearance.
- B. Edging is to be accomplished by hand with an edging hand-tool, or by using a rotating or vibrating blade power driven machine which produces a maximum 2" deep x 2" wide trench at the transition edge.
- C. Edging machines which produce a cut deeper than 2" are not acceptable. The use of shovels as edging tools is not acceptable.
- D. Final depth of all cut edges, whether done by hand or machine, is to be no more than 2".
- E. All debris generated by edging activities is to be removed from adjacent surfaces.

3.11 PLACING SOIL IN PLANTERS

- A. Place a layer of drainage gravel at least 4 inches (100 mm) thick in bottom of planter unless otherwise noted. Cover bottom with filter fabric and wrap filter fabric 6 inches (150 mm) up on all sides unless otherwise noted. Duct tape along the entire top edge of the filter fabric, to secure the filter fabric against the sides during the soil-filling process unless otherwise noted.
- B. Fill planter with planting soil. Place soil in lightly compacted layers to an elevation of 1-1/2 inches (38 mm) below top of planter, allowing natural settlement.

3.12 ORNAMENTAL AND NATIVE GRASS PLANTING

- A. Remove plants from containers by inverting container, taking care not to damage plant material; or by cutting root mass with a knife on 4-sides to a depth of 1/2-inch (12.7-mm) and cut the

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bottom of root mass in same manner in an 'X' pattern. Loosen up root systems of container-grown plants.

- B. Do not allow root tips to become damaged from exposure to air; keep growing root tips moist and covered. Plant as quickly as possible upon removal from containers.
- C. Do not set plants too high or too low; plant so that plant crowns are just slightly above soil level. Thoroughly water plants upon planting, and maintain through substantial completion.

3.13 PERENNIAL PLANTING

- A. Prepare planting beds for mass plant areas to achieve a slight crown. Loosen planting bed soil to a depth of 4- to 6-inches (101.6- to 152.5-mm).
- B. Remove plants from containers by inverting container, taking care not to damage plant material. Split biodegradable containers. Loosen up root systems of container-grown plants.
- C. Do not allow root tips to become damaged from exposure to air; keep growing root tips moist and covered. Plant as quickly as possible upon removal from containers.
- D. Set plants in prepared beds so that plant crowns are just slightly above planting soil level. Thoroughly water plants upon planting, and maintain through substantial completion.

3.14 GROUND COVER PLANTING

- A. Set out and space ground cover and plants other than trees, shrubs, and vines as indicated on Drawings in even rows with triangular spacing unless noted otherwise.
- B. Use planting soil for backfill.
- C. Dig holes large enough to allow spreading of roots.
- D. For rooted cutting plants supplied in flats, plant each in a manner that minimally disturbs the root system but to a depth not less than two nodes.
- E. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.
- F. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.
- G. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.

3.15 PLANTING AREA MULCHING

- A. Mulch backfilled surfaces of planting areas and other areas indicated.
 - 1. Trees and Treelike Shrubs in Turf Areas: Apply mulch ring with minimum 36-inch (900-mm) radius around trunks or stems. Do not place mulch within 6 inches (150 mm) of trunks or stems. Do not mulch trees scheduled to be placed under sod profile.
 - 2. Mulch in Planting Areas: Apply mulch over whole surface of planting area, and finish 1/2" below level with adjacent finish grades. Do not place mulch within 6 inches (150 mm) of tree and shrub trunks or stems.

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3. Leafy stems of groundcover or vines shall not be buried under mulch material.
 4. Plant material requiring differing depths of mulch which are present in one planting bed shall be mulched to each plant type's required depth; transitions between areas of differing depths of mulch shall be accomplished as smoothly as possible.
- B. "Volcano" mulching, the practice of heaping mulch against the stems or trunks of plant material, is strictly forbidden. Plant material with bark or trunk damage due to this practice will be replaced by the Contractor, at his expense.
- C. When adding mulch to existing tree rings or planting beds, old, decomposed mulch is to be removed as necessary to maintain the original soil grade; decomposed mulch shall not be allowed to build up so as to result in additional soil covering the plant roots.
- D. In no case shall mulch come in contact with any part of trunk or root flare. There should be a minimum 6" offset from flare to mulch.
- E. Excess mulch shall be removed and disposed of off-site. Contractor shall not over-mulch planting beds with excess mulch.

3.16 WATERING

A. General

1. Contractor shall provide sufficient, appropriate and on-going watering as necessary to ensure the health and vigor of all plant material.
2. On-site water will be supplied by the Owner for watering purposes where available. If on-site water is not available, it shall be the responsibility of the Contractor to provide water from his own source at no expense to the Owner. The Contractor shall furnish hoses and other watering equipment as required for watering.
3. Contractor shall have the necessary city permits in order to obtain water from city hydrants.
4. Watering equipment shall be of a type that will prevent or preclude damage to the plant materials and/or the finished surface of the planting beds.
5. Water shall be applied to beds and plant material in such a way as to prevent damage to or flooding of the areas being watered and/or adjacent surfaces.

B. Watering Rates

1. The following rates shall be applied by the Contractor to all plantings unless rainfall for that week's period is greater than 1/2" or as otherwise determined by the Landscape Architect.
 - a. Shade trees are to receive 50 gallons of water per tree per week.
 - b. Ornamental trees are to receive 40 gallons of water per tree per week.
 - c. Shrubs 18 inches and greater in size are to be watered to a depth of 12" per week.
 - d. Shrubs less than 18 inches in size are to receive enough water to thoroughly wet the entire depth of the root ball once per week.
 - e. Annuals, perennials, ornamental grasses and other herbaceous plant materials are to be watered to a depth of 6", once per week minimum.
2. If specific plantings require more (or less) frequent watering to ensure proper root establishment and to maintain the health and vigor of the plants, the Contractor's watering schedule must be adjusted accordingly.
3. Written documentation of watering schedule shall be supplied to the Owner.

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C. Availability of On-Site Water

1. Sites without on-site water

- a. Contractor shall bring or tank-in water for sites without an on-site water supply and furnish all labor and equipment, including hoses and sprinklers, that may be necessary to water plant materials.
- b. Water required to be brought in tanks from off site to meet plant material maintenance requirements must be from an uncontaminated source.

2. Sites with on-site water: Contractor shall furnish all labor and equipment, including hoses and sprinklers, that may be necessary to water plant materials from an on-site water system.

D. Installing Slow-Release Watering Device

1. Provide one device for each tree.
2. Place device on top of the mulch at base of tree stem and fill with water according to manufacturer's written instructions.
3. Where "gator bag" watering devices are used, they are not to remain in place over the winter months and must be removed by November 15; if the plant material is still under warranty, they must be reinstalled by April 1.

3.17 PLANT MAINTENANCE

- A. Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings.
- B. Fill in, as necessary, soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence.
- C. Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease. Use integrated pest management practices when possible as the use of pesticides is prohibited. Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents.
- D. Irrigate sufficiently to saturate root system and prevent soil from drying out.
- E. Remove dead or broken branches and treat pruned areas or other wounds.
- F. Neatly trim plants where necessary.
- G. Immediately remove clippings after trimming.
- H. Control growth of weeds:
 1. For the purposes of this contract, a weed is defined as any growing plant not intentionally planted or seeded (or allowed to seed) in a planting bed or elsewhere within the scope of work.
 2. Any weed one inch or taller, and/or which is clearly visible, within a planted area is to be removed immediately. Removal is to include the roots as well as top growth.
 3. Weeds shall be removed mechanically or by hand.

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4. As weeds are removed, excess soil is to be shaken off the roots and returned to the planting bed.
5. Woody weeds/weed trees growing in or through shrub or hedge plantings are to be removed cleanly at the base with either a pruning saw or pruners. Herbaceous weeds growing in or through shrub or hedge plantings are to be pulled from the roots. Shearing weeds "to height" during pruning operations will not be acceptable.
6. Use of pre-emergent herbicides and other chemical herbicide is permitted with the prior approval of the Owner Representative.
7. All debris generated from weeding operations is to be properly disposed of, off Owner Property, at the end of each work day.

I. Replace mulch when deteriorated.

J. Maintain wrappings, guys, turnbuckles, and stakes. Adjust turnbuckles to keep guy wires tight. Repair or replace accessories when required.

K. Maintain plant material until Substantial Completion at no extra cost to Owner. This includes not only plant material but also sodded areas as described in Section 32 92 23 - Sodding.

L. Maintenance begins immediately after each plant is installed and shall include watering, necessary cultivation, weeding, pruning, disease and insect pest control, protective spraying, resetting of plants to proper grades or upright position, restoration of damaged planting saucers, and any other procedure consistent with good horticultural practice necessary to ensure normal, vigorous, and healthy growth of work.

M. Final Acceptance will be granted upon conformance with following:

1. Plant material shall conform to drawings with respect to quantity, quality, size, species, and location, except those items accepted or revised in field by Architect/Engineer of Record.
2. Plant material shall be in healthy condition as defined under guarantee requirements below.
3. Items shall appear to be in general conformance with specifications.

3.18 CLEANING AND PROTECTION

A. During planting, keep adjacent paving and construction clean and work area in an orderly condition. 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. Protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.

D. After installation and before Substantial Completion remove nursery tags, nursery stakes, tie tape, labels, wire, burlap, and other debris from plant material, planting areas, and Project site.

E. At time of Substantial Completion, verify that tree-watering devices are in good working order and leave them in place. Replace improperly functioning devices.

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3.19 GUARANTEE

- A. Contractor shall guarantee for period of one year from the date of Preliminary Acceptance, replacement of plants which have died, or are in distressed/dying condition, or which have failed to flourish in such manner that their usefulness or appearance has been impaired. Replace any tree with dead main leader or crown that is 25% or more dead.
1. Exclusions: Contractor shall not be liable for replacement cost of plants damaged by deicing compounds, fertilizers, pesticides or other materials not specified in Contract Documents or not applied by the landscaper, by relocating or removal by others, by acts of God, or by vandalism, and losses due to curtailment of water by local authorities.
- B. Inspection of Owner's Maintenance Operations:
1. During guarantee period, Contractor shall, from time to time, inspect watering, cultivation, and other maintenance operations carried on by the Owner with respect to such work, and promptly report to Owner any methods, practices or operations considered unsatisfactory and not in accord with interests or good horticultural practices.
 2. Failure of Contractor to so inspect or report shall be construed as an acceptance of Owner's maintenance operations, and Contractor shall not thereafter claim or assert that any defects which may later develop are result of such methods or practices or operations.

3.20 REPLACEMENTS

- A. Plants which die or require replacement for other reasons during one-year guarantee period shall be replaced as soon as possible during following acceptable planting seasons:
1. Spring Replacement Season: All plants - when ground becomes workable to June 15.
 2. Fall Replacement Season:
 - a. Deciduous plants - September 1 to November 15.
 - b. Evergreen plants - September 1 to November 1.
- B. Procedure:
1. Dispose of plants off-site in legal manner.
 2. Replacements shall be of same size and species as original plant unless otherwise approved by Architect/Engineer of Record.
 3. Replacements shall be supplied and installed in accordance with specifications.
 - a. Additional one-year guarantee for replacement plants shall begin on date of final acceptance of plant material by Architect/Engineer of Record as documented in field report.
 4. Replacement and Damages:
 - a. Decisions of Architect/Engineer of Record for required replacements shall be conclusive and binding upon Contractor.
 - b. Contractor shall be responsible for repairing damage to property also caused by defective workmanship and materials.

END OF SECTION 32 93 00

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SECTION 33 41 00

STORM UTILITY DRAINAGE PIPING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. Section Includes:
 - 1. Pipe and fittings.
 - 2. Catch basins.
 - 3. Inlets.
 - 4. Manholes.
 - 5. Cleanouts.
- B. Related Sections:
 - 1. 31 20 00 "Earth Moving" for utility trench preparation.

1.03 SUBMITTALS

- A. Product Data: For each type of product indicated. Provide data on pipe materials, pipe fittings and accessories. Provide shop drawings for catch basins, manholes, trench drains and appurtenances.
- B. Shop Drawings:
 - 1. Catch basins, Inlets and Manholes: Include plans, elevations, sections, details, frames, covers, and grates per manufacturer.
- C. Coordination Drawings: Show pipe sizes, locations, and elevations. Show other piping in same trench and clearances from storm drainage system piping. Indicate interface and spatial relationship between manholes, piping, and proximate structures.
- D. Profile Drawings: Show system piping in elevation. Draw profiles at horizontal scale of not less than 1 inch equals 50 feet and vertical scale of not less than 1 inch equals 5 feet. Indicate manholes and piping. Show types, sizes, materials, and elevations of other utilities crossing system piping.
- E. Field quality-control reports.

1.04 DELIVERY, STORAGE, AND HANDLING

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- A. Do not store plastic manholes, pipe, and fittings in direct sunlight.
- B. Protect pipe, pipe fittings, and seals from dirt and damage.
- C. Handle manholes according to manufacturer's written rigging instructions.
- D. Handle catch basins, manholes and slot drains according to manufacturer's written rigging instructions.

1.05 PROJECT CONDITIONS

- A. Interruption of Existing Storm Drainage Service: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary service according to requirements indicated:
 - 1. Notify Architect no fewer than two days in advance of proposed interruption of service.
 - 2. Do not proceed with interruption of service without Architect's written permission.

PART 2 - PRODUCTS

2.01 PIPE APPLICATIONS FOR UNDERGROUND STORM SEWERS

- A. Polyvinyl Chloride Pipe (PVC):
 - 1. PVC pipe shall be SDR 26 in conformance with ASTM D 3034 for 6-inch to 15-inch pipe or ASTM F-679 for 18-inch or larger pipe, with push-on joints with elastomeric gaskets.
- B. Ductile Iron Pipe (DIP):
 - 1. DIP pipe used for sewers shall be Class 50 in conformance with ANSI A 21.51 for pipe and ANSI A-21.11 for joints.
- C. Corrugated High-Density Polyethylene Pipe (HDPE):
 - 1. HDPE pipe shall be Advanced Drainage Systems (ADS) N-12 ST 1B (soiltight) Pipe.

2.02 FITTINGS

- A. Sewer wyes shall be made of the same material as the main-line piping, shall comply with the appropriate provisions of the Standard Specifications for Water & Sewer Main Construction in Illinois and shall be encased in granular bedding as a minimum.
- B. Saddles will only be allowed if the main line piping has a 12-inch diameter or greater. If a connection is to be made where there is no wye and the piping is smaller than 12-inches, a section of pipe shall be removed and a wye inserted with mission couplings and new sections of pipe as needed.
- C. Mission couplings shall conform to ASTM C-425. They shall be made of stainless steel with an interior rubber collar and shall have take-up clamps to fit the appropriate outer diameter of the pipe being used. The take-up clamps shall be properly tightened, the sewer shall be tested by the exfiltration method and, after the connection passes, the entire connection shall be encased in granular fill to a minimum of 6-inches all around.
- D. Gaskets: Gaskets for push-on joints shall conform to ASTM F-477.
- E. Plugs shall be specifically manufactured for the pipelines in which they are to be installed. The plug shall be constructed of a material approved by the City of Evanston and shall provide a permanent watertight installation without permanently sealing the joint.

2.03 CATCH BASINS

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- A. Precast Concrete Catch Basins: ASTM C 478, precast reinforced concrete.
 - 1. Base Section: 6 inch minimum thickness for floor slab and 4 inch minimum thickness for walls and base riser section, and having a separate base slab or base section with integral floor.
 - 2. Riser Sections: 4 inch minimum thickness, 48 inch diameter, and lengths to provide depth indicated.
 - 3. Top Section: Eccentric cone type, unless concentric cone or flat slab top type is indicated. Top of cone to match grade rings.
 - 4. Grade Rings: 2 or 3 reinforced concrete rings, of 8 to 13 inches total thickness and match 24 inch diameter frame and cover.
 - 5. Gaskets: ASTM C 443, rubber.
 - 6. Steps: Omit steps.
 - 7. Pipe Connectors: ASTM C 923, resilient, of size required, for each pipe connecting to base section.
 - 8. Channel and Bench: Concrete.
- B. Cast in Place Catch Basins:
 - 1. Bottom, Walls, and Top: Reinforced concrete.
 - 2. Channel and Bench: Concrete.
 - 3. Steps: Cast into sidewall at 16 inch intervals.
- C. Catch Basin Steps:
 - 1. Material: Ductile iron
 - 2. Wide enough for an adult to place both feet on one step and designed to prevent lateral slippage off the step.
- D. Catch Basin Frames and Grates: ASTM A 536 Grade 60 40 18, heavy duty, ductile iron, 24 inch inside diameter by 7 to 9 inch riser with 4 inch minimum width flange, and 26 inch diameter flat grate having small square or short slotted drainage openings.

2.04 TRACER WIRE

- A. Tracer wire shall be #10 AWG solid copper conductor with 45 mil HDPE insulated jacket. Jacket color shall comply with ANSI Standard Z535 as reflected in the American Public Work Association Uniform Color Code.
- B. Conductor shall be annealed copper (soft drawn). Conductor shall meet or exceed all applicable ASTM specifications including ASTM B3 - Standard Specification for Soft or Annealed Copper Wire and ASTM B-170 Standard Specification for Oxygen-Free Electrolytic Copper. Conductor shall comply with all applicable requirements of the National Electrical Code
- C. Insulation shall be high density, high molecular weight, polyethylene (HDPE). Insulation shall meet or exceed all applicable ASTM specifications including ASTM D1248 - Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable and ASTM D1238 – Standard Specification for Test Methods for Melt Flow Rates of Thermoplastics by Extrusion Plastometer.

2.05 TRACER WIRE CONNECTORS

- A. Tracer wire connectors shall be lockable type specifically manufactured for use in underground

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tracer wire installations.

- B. Connectors shall be dielectric silicon filled to seal out moisture and prevent corrosion.
- C. Connectors shall be designed to receive 10 AWG tracer wire and shall be rated for 600 volts.
- D. Non-locking, friction fit, twist-on or taped connectors are not acceptable. Twisting of copper wiring is not acceptable.

2.06 INLETS

- A. All inlets provided shall be in accordance with the guidelines set forth by the City of Evanston.
- B. Manufacturer: Advanced Drainage System (ADS)
 - 1. Basin: Nyloplast Drain Basin and Inline Drain system, diameter to match pipe size as shown on the Contract Drawings.
 - 2. Grate in Lawn Areas: Standard ductile iron grate with light-duty load rating, diameter to match pipe size as shown on the Contract Drawings.

2.07 CLEANOUT

- A. Cleanouts shall be Nyloplast Drainage Systems Inline Drains as supplied by ADS or approved equal.
- B. Cleanout covers shall be solid lid, ductile iron with locking device.
- C. Adapters and accessories shall be of the size and type as recommended by the manufacturer of the pipe underdrain.

2.08 MANHOLES

- A. Precast Concrete Manholes: ASTM C 478, precast, reinforced concrete, of depth indicated, with provision for rubber gasket joints.
 - 1. Ballast: Increase thickness of precast concrete sections or add concrete to base section, as required to prevent floatation.
 - 2. Base Section: 6-inch (150-mm) minimum thickness for floor slab and 4-inch (100-mm) minimum thickness for walls and base riser section, and having a separate base slab or base section with integral floor.
 - 3. Riser Sections: 4-inch (100-mm) minimum thickness, 48-inch (1220-mm) diameter, and lengths to provide depth indicated.
 - 4. Top Section: Eccentric cone type, unless concentric cone or flat-slab-top type is indicated. Top of cone of size that matches grade rings.
 - 5. Gaskets: ASTM C 443 (ASTM C 443M), rubber.
 - 6. Grade Rings: Include 2 reinforced-concrete rings, of 6- to 8-inch (152- to 229-mm) total thickness, that match a 24-inch- (610-mm-) diameter frame and cover.
 - 7. Steps: Omit steps.
 - 8. Pipe Connectors: ASTM C 923 (ASTM C 923M), resilient, of size required, for each pipe connecting to base section.
 - 9. Precast subsurface structures shall be rated to accommodate AASHTO HS-20 loading.
- B. Manhole Frames and Covers: ASTM A-48, Class 35B, gray cast iron. Equip on-site manhole covers with lock-bolt or approved locking mechanism device. Include indented top design with

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lettering cast into cover:

1. Storm Drainage Piping Systems: Raised flush letters per current code.
2. Install ADA [American Disabilities Act] approved grates for catch basins located within pedestrian path of travel.
3. Pipe Connectors: ASTM C 923 (ASTM C 923M), resilient, of size required, for each pipe connecting to base section.
4. Precast subsurface structures shall be rated to accommodate AASHTO HS-20 loading.

PART 3 - EXECUTION

3.01 PREPARATION OF FOUNDATION FOR BURIED STORM SEWERAGE SYSTEMS

- A. Grade trench bottom to provide a smooth, firm, stable, and rock free foundation, throughout the length of the pipe.
- B. Remove unstable, soft, and unsuitable materials at the surface upon which pipes are to be laid, and backfill with clean sand or pea gravel to indicated level.
- C. Shape bottom of trench to fit bottom of pipe. Fill unevenness with tamped sand backfill. Dig bell holes at each pipe joint to relieve the bells of all loads and to ensure continuous bearing of the pipe barrel on the foundation.

3.02 INSTALLATION

- A. Installation shall meet or exceed all applicable federal, state and local requirements, referenced standards and conform to codes and ordinances of authorities having jurisdiction.
- B. All installation shall be in accordance with manufacturer's published recommendations.
- C. General Locations and Arrangements: Drawings (plans and details) indicate the general location and arrangement of the underground storm sewerage system piping. Location and arrangement of piping layout take into account many design considerations. Install the piping as indicated, to the extent practical.
- D. Maximum spacing between storm drain manholes or inlets shall be 300 feet.
- E. Install piping beginning at low point of systems, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings in accordance with manufacturer's recommendations for use of lubricants, cements, and other installation requirements. Maintain swab or drag in line and pull past each joint as it is completed.
- F. Use manholes or catch basins for changes in direction, except where a fitting is indicated. Use fittings for branch connections, except where direct tap into existing sewer is indicated.
- G. Use proper size increasers, reducers, and couplings, where different size or material of pipes and fittings are connected. Reduction of the size of piping in the direction of flow is prohibited.
- H. Install piping pitched down in direction of flow, at minimum slope of 1 percent, except where indicated otherwise.
- I. Extend storm sewerage system piping to connect to building storm drains, of sizes and in locations indicated.
- J. Tunneling: Install pipe under streets or other obstructions that cannot be disturbed, by tunneling,

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jacking, or a combination of both.

3.03 CATCH BASINS AND MANHOLES

- A. Install complete with accessories, as indicated.
- B. Set tops of frames and covers flush with finish surface where occurring in pavement or concrete pads.
- C. Place precast sections as indicated and install according to ASTM C 891.
 - 1. Provide rubber joint gaskets complying with ASTM C 443 at joints of sections.
 - 2. Apply bituminous mastic coating at joints of sections.

3.04 CLEANOUTS

- A. Install cleanouts and extension from sewer pipe to cleanout at grade as indicated. Set cleanout frame and cover in concrete block 18 by 18 by 12 inches deep, except where location is in concrete paving. Set top of cleanout 1 inch above surrounding earth grade or flush with grade when installed in paving.

3.05 CLOSING ABANDONED STORM SEWERAGE SYSTEM

- A. Close open ends of abandoned underground piping that is indicated to remain in place. Provide sufficiently strong closures to withstand hydrostatic or earth pressure that may result after ends of abandoned utilities have been closed.

Close open ends of concrete or masonry utilities with not less than 8 inch thick masonry bulkheads.

3.06 INSTALLATION OF IDENTIFICATION

- A. Install continuous warning wire during back filling of trench for underground water service piping. Locate 6 to 8 inches below finished grade, directly over piping.

3.07 TRACER WIRE

- A. Tracer wire shall be color coded to match utility. Colors utilized on the Urbana-Champaign Campus include red for electric; yellow for natural gas, compressed air and steam; green for storm and sanitary sewer; orange for communications; blue for potable water and purple for non-potable and chilled water.
- B. Tracer wire shall be provided full length for all buried utilities including natural gas, steam, chilled water, compressed air, water, non-potable water and other utilities as indicated on Construction Documents.
- C. Tracer wire shall be installed straight parallel to pipe. Tracer wire shall be installed in manner that prevents distortion of signal. Tracer wires shall not be crossed. Wires shall not be looped upon themselves. Multiple active wires shall not be installed in close proximity to one another.
- D. Tracer wire shall be provided in conjunction with all methods of utility installation including open trench and directional drilling.
- E. Open trench method
 - 1. Tracer wire shall be placed a minimum of 8 inches above buried natural gas piping and nonmetallic piping for any service. For other utility piping systems tracer wire shall be laid directly upon pipe and attached at 8-10 ft. intervals with non-conductive tape. Additional attachment shall be provided at offsets and fittings in piping system. Tracer wire shall be

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- placed carefully and great care shall be exercised during backfilling operations to maintain physical integrity and position relative to piping.
2. Splices in tracer wire shall be kept to an absolute minimum. When splices are necessary they shall be made with tracer wire connectors as specified above. Other splicing methods not allowed.
- F. Directional drilling method
1. Two tracer wires shall be provided with one wire as backup.
 2. Tracer wires shall be pulled through bore hole in conjunction with utility pipe. Wires shall be located on opposite sides of utility pipe.
 3. Tracer wire splices are not allowed in drilled sections.
- G. Tracer wires shall be interconnected at intersections of mainlines and branches utilizing single three-way connector at each point of connection.
- H. At a minimum, a terminal box shall be provided at each building utility service entrance and shall be located above piping within 5 ft. of point of entry into building.
- I. Terminal boxes shall be located no greater than 1,000 linear feet of developed pipe length apart.
- J. Terminal boxes shall not be located in streets, drives, parking lots or other areas subject to vehicular traffic. Terminal boxes shall not be located in areas where access to box is impeded.
- K. Terminal boxes shall be installed flush with finished grade and centered in grade level concrete pad. Concrete pad shall be 18" by 18" minimum and shall be 6" thick.
- L. PVC pipe riser shall be firmly attached to bottom of terminal box housing and extended downward to an elevation approximately 12" above piping. Riser shall serve as a vertical conduit for guiding tracer wires into bottom of terminal box.
- M. Care shall be taken to extend tracer wire from utility pipe to terminal box in an orderly manner as backfill is placed.
- N. End of each tracer wire shall be properly landed on dedicated terminal within terminal box and securely tightened. 12-18" excess length shall be provided for each wire within box. Each terminal shall be clearly identified with permanent label. Where tracer wires for multiple utilities are terminated care shall be taken to ensure accuracy of identification at both ends.
- O. Final testing of each tracer wire shall be performed after backfill is complete and terminal boxes have been permanently installed and wires terminated. Test shall be witnessed by AE and Owner. It may be advisable for Contractor to perform preliminary test(s) during utility installation prior to final backfill and restoration. Testing shall be accomplished using typical low frequency line tracing equipment. Continuity testing in lieu of actual line tracing is not acceptable.

END OF SECTION 33 41 00

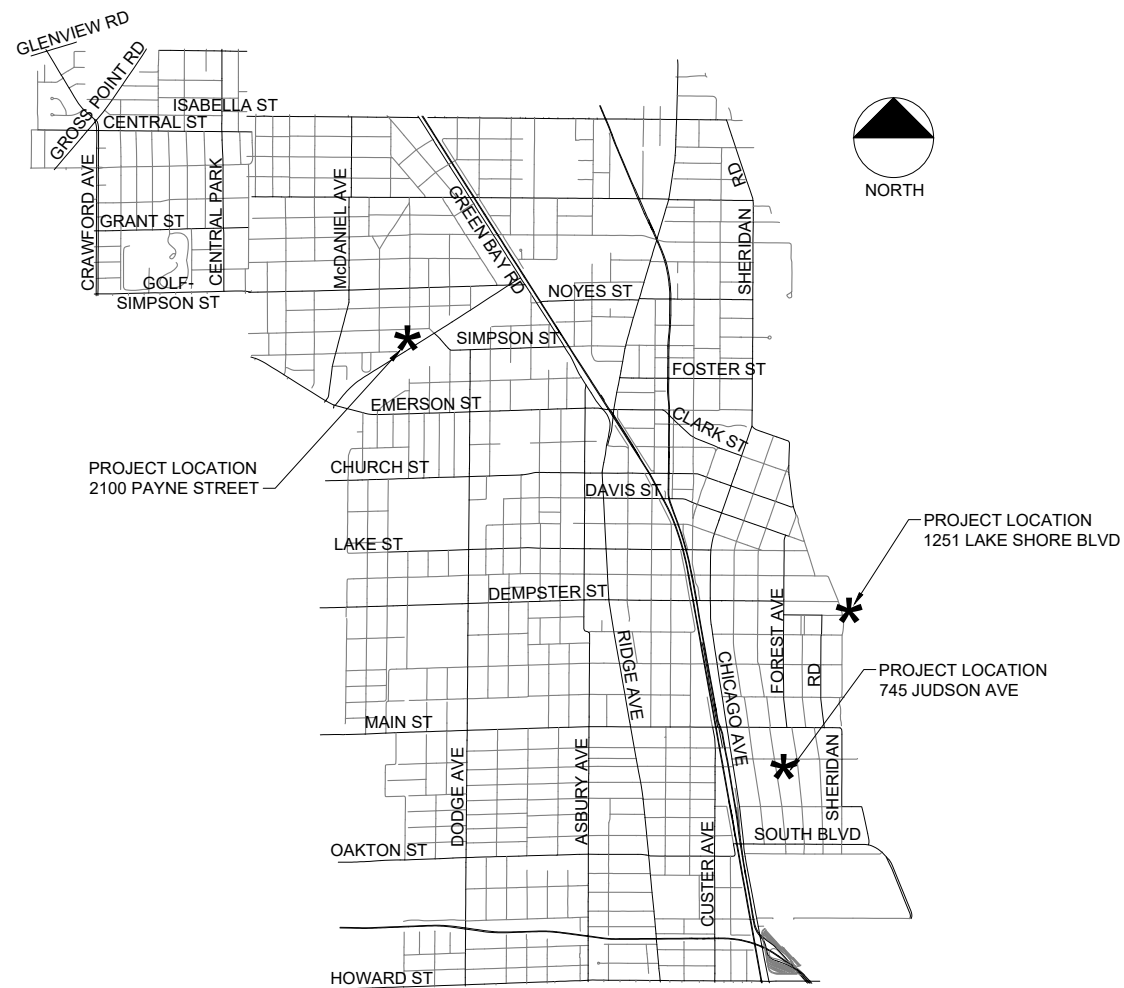
2026 PLAYGROUND IMPROVEMENTS, BID #26-30

BURNHAM SHORES - 1251 LAKE SHORE BLVD, EVANSTON, IL 60201

EGGLESTON PARK - 2100 PAYNE STREET, EVANSTON, IL 60201

SNYDER TOT LOT - 745 JUDSON AVE, EVANSTON, IL 60202

LOCATION MAP



NOTE

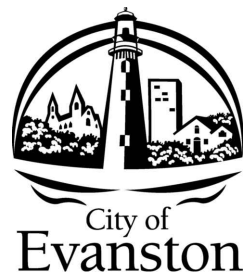
THE EXACT LOCATION OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION ACTIVITIES FOR UTILITY LOCATION CALL J.U.L.I.E. 1-800-892-0123, CITY OF EVANSTON UTILITIES DIVISION 847-866-2945, AND CITY OF EVANSTON FACILITIES MANAGEMENT DIVISION 847-866-2794.

OWNER

CITY OF EVANSTON
PUBLIC WORKS AGENCY
CONTACT: KENON BOEHM
909 DAVIS STREET, THIRD FLOOR
EVANSTON, ILLINOIS 60201
224-296-4453 (PHONE)
kboehm@cityofevanston.org

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City of Evanston
Public Works Agency

GENERAL NOTES

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES. THE LOCATION OF PUBLIC AND PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE CITY DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED.
2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL "J.U.L.I.E" AT 1-800-892-0123 AND CITY OF EVANSTON FACILITIES MANAGEMENT AT 847-866-2974 FOR FIELD LOCATIONS OF BURIED UTILITIES. A MINIMUM OF 48 HOUR NOTICE IS REQUIRED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE UTILITY PROVIDER. THIS WORK SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.
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.
6. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS.
7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ANY OTHER PROJECTS WITHIN THE AREA THAT ARE UNDER CONSTRUCTION AT THE SAME TIME.
8. DRIVING HEAVY MACHINERY OVER THE NORTHWEST WATER COMMISSION'S (NWC) WATER MAIN WILL BE PROHIBITED UNLESS PROTECTED WITH STEEL PLATES OR EQUIVALENT THAT IS APPROVED BY THE NWC ENGINEER DURING CONSTRUCTION OPERATIONS.
9. FOR NWC COORDINATION CONTACT:

JACK JOYCE
847-635-0777
jjoyce@northwestwater.org

DEMOLITION NOTES

1. 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.
2. 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.
3. CONTRACTOR SHALL RESTORE ALL AREAS OF REMOVALS AND DISTURBED AREAS WITH TOPSOIL AND SEED.
4. 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.
5. 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.
6. SAWCUT ALL PAVEMENTS AND/OR CURB AND GUTTERS AT EDGES OF AREAS SCHEDULED FOR REMOVAL. COST FOR SAWCUTTING SHALL BE INCIDENTAL TO THE CONTRACT.
7. CONTRACTOR SHALL RESTORE ANY PAVEMENTS DAMAGED DURING THE WORK TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST.
8. CONTRACTOR SHALL FOLLOW CITY, IDOT AND MUTCD REQUIREMENTS FOR ALL SIDEWALK AND/OR ROADWAY CLOSURES.

EROSION CONTROL NOTES

1. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATION. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM STORM WATER PERMITS ILR10 AND ILR40.
2. HE CONTRACTOR SHALL SUBMIT A DETAILED EROSION CONTROL SCHEDULE FOR APPROVAL.
3. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.
4. ALL DISTURBED AREAS SHALL BE SEEDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THOSE AREAS HAVE CONCLUDED. ALL ERODIBLE/BARE AREAS SHALL BE SEEDED EVERY SEVEN (7) DAYS WITH TEMPORARY EROSION CONTROL SEEDING. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE (3) DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED.
5. STOCKPILES AND MATERIAL STORAGE ARE PROHIBITED IN SPECIAL MANAGEMENT AREAS INCLUDING WETLANDS, WETLAND BUFFERS, AND FLOOD PLAINS. LOCATION OF STOCKPILE MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES.
6. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED TO THE SATISFACTION OF THE CITY.
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 PRIVATE 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 1/2 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.

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 EQUALLY SPACED AND 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. POWER WASH ALL CONCRETE PAVEMENT, CONCRETE CURBS, AND RETAINING WALLS AT ALL THREE PARK LOCATIONS.
15. MAX CROSS SLOPE AT ALL NEW CONCRETE PAVEMENT AREAS SHALL NOT EXCEED 1.5% CROSS SLOPE. MAX SLOPE SHALL NOT EXCEED 4.5%.
16. ROUT AND SEAL ALL CONCRETE EXPANSION JOINTS WITHIN CONSTRUCTION FENCED AREAS.
17. GRIND EXISTING CONCRETE PAVEMENT TO REMAIN WITHIN CONSTRUCTION FENCED AREAS AT ANY/ALL JOINTS WHERE VERTICAL CHANGES IN LEVEL EXCEED 1/4" TO MEET ADA COMPLIANCE.

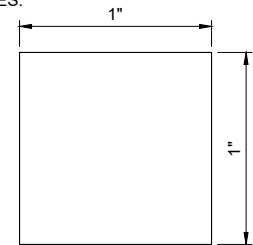


Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: N/A

REVISIONS:

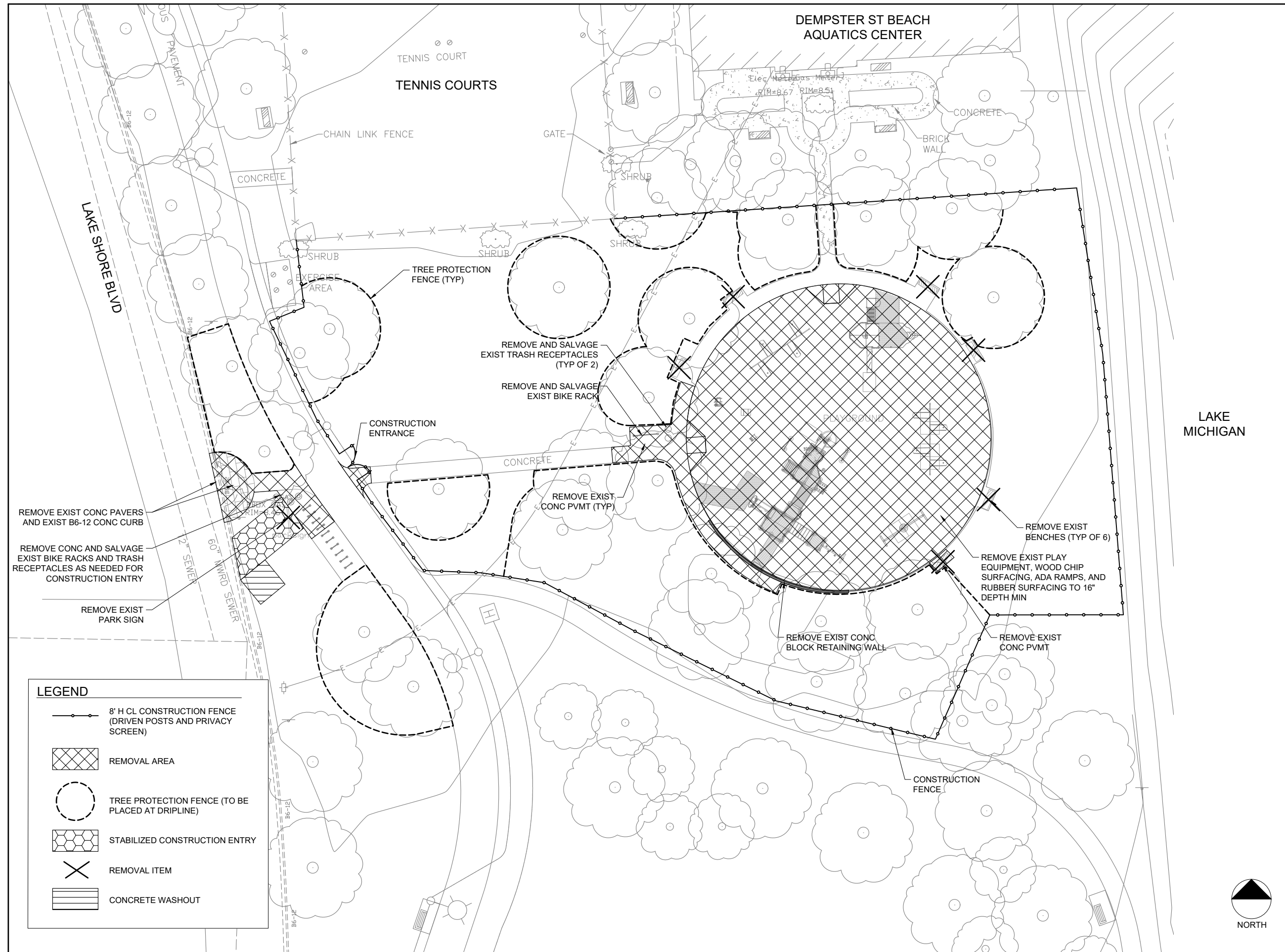
	05/28/2026 BID SET

SHEET TITLE

GENERAL NOTES

SHEET NO.

G-01

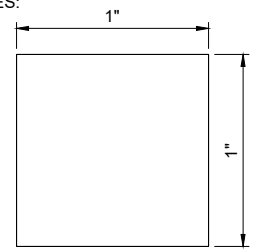


City of
Evanston
Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: 1"= 30'-0"

REVISIONS:

	05/28/2026 BID SET

SHEET TITLE

BURNHAM SHORES DEMOLITION PLAN

SHEET NO.

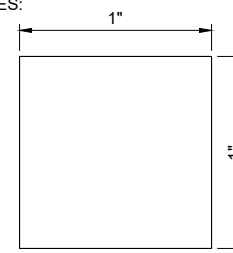
R-01



PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: 1"= 40'-0"

REVISIONS:

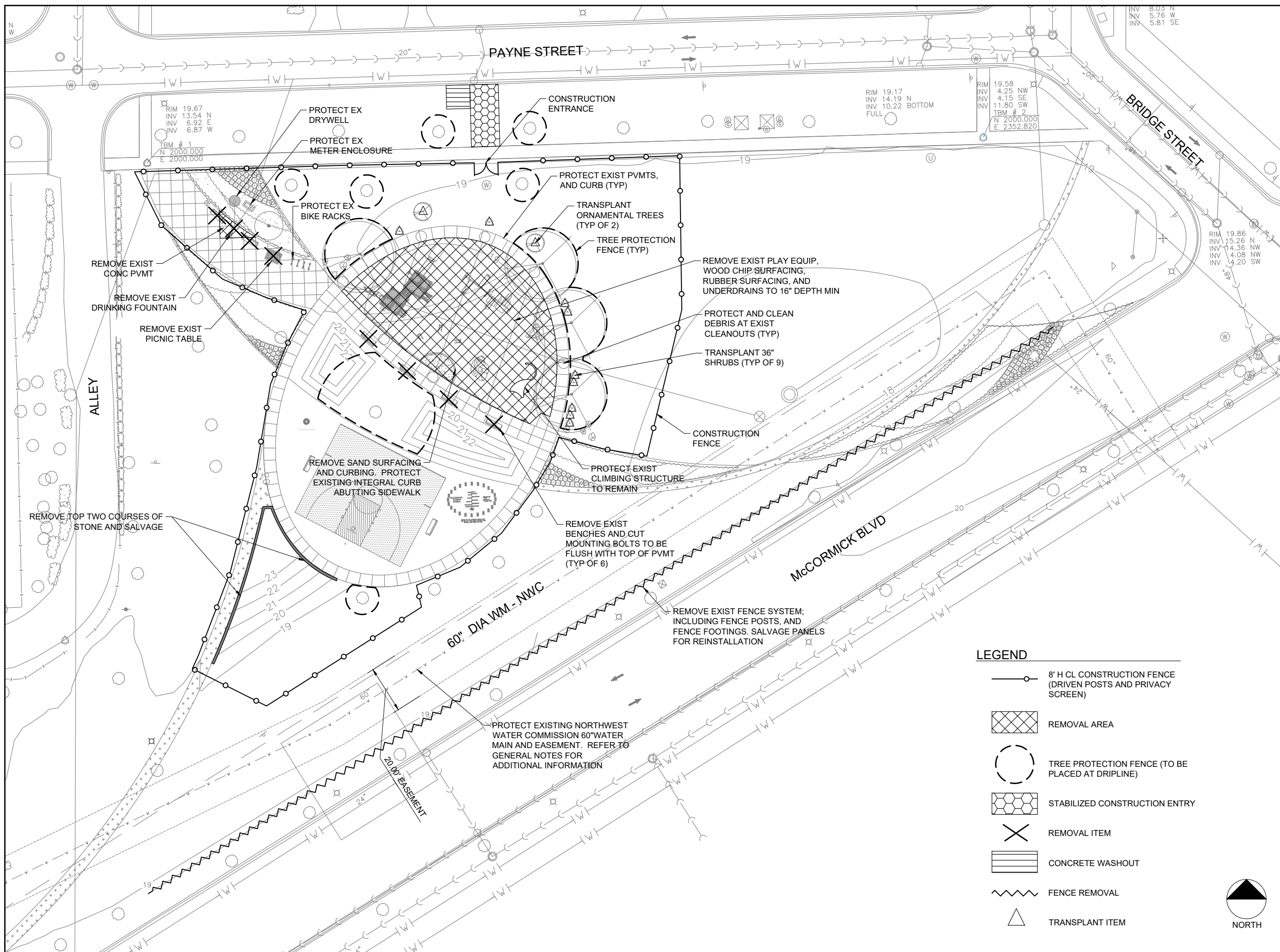
05/28/2026 BID SET

SHEET TITLE

**EGGLESTON PARK
DEMOLITION PLAN**

SHEET NO.

R-02



LEGEND

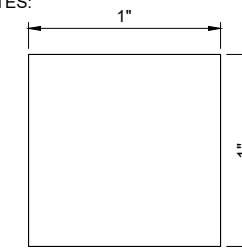
- 8' H CL CONSTRUCTION FENCE (DRIVEN POSTS AND PRIVACY SCREEN)
- REMOVAL AREA
- TREE PROTECTION FENCE (TO BE PLACED AT DRIPLINE)
- STABILIZED CONSTRUCTION ENTRY
- REMOVAL ITEM
- CONCRETE WASHOUT
- FENCE REMOVAL
- TRANSPLANT ITEM



PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: 1"= 20'-0"

REVISIONS:

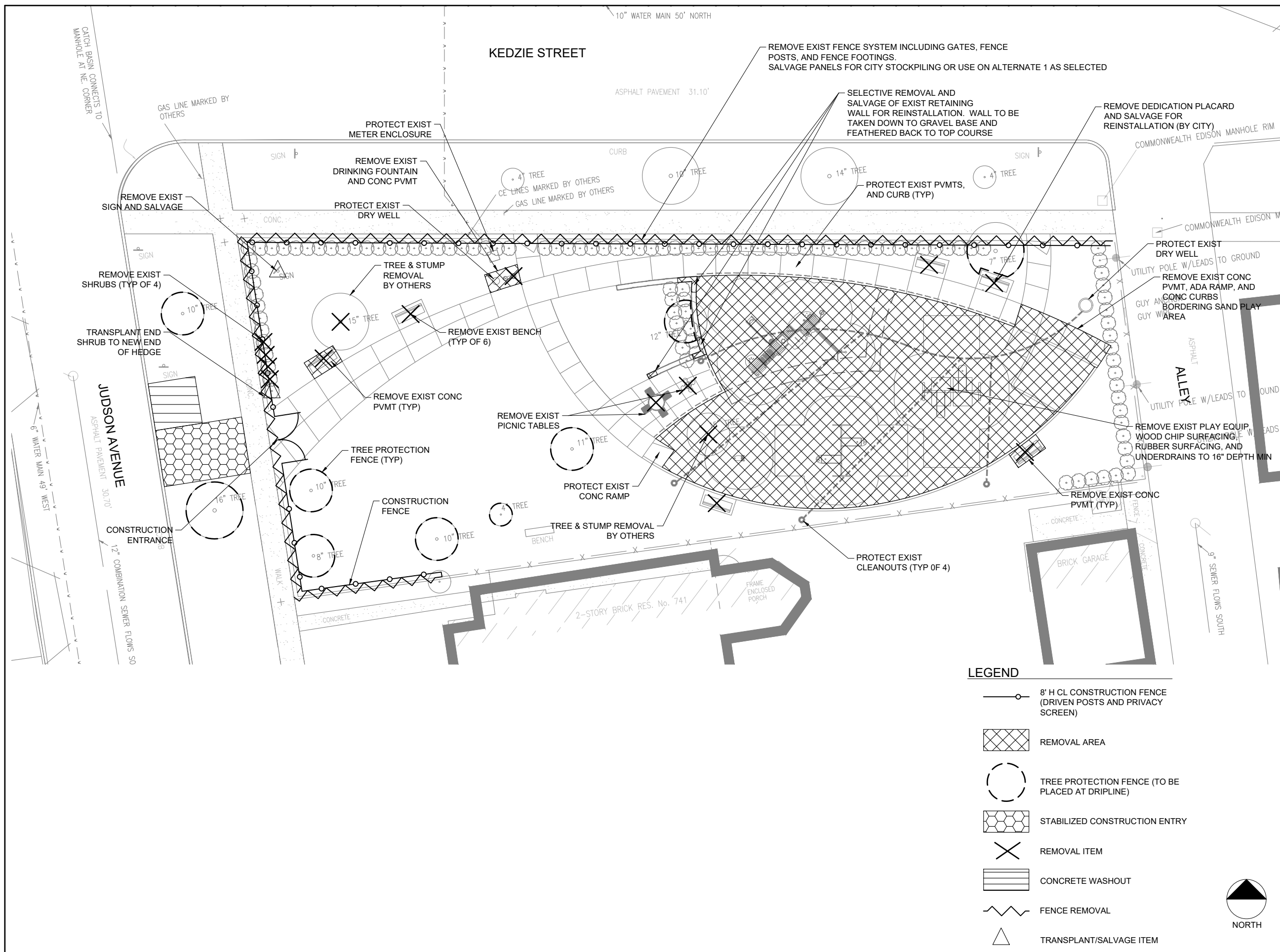
05/28/2026 BID SET

SHEET TITLE

SNYDER TOT LOT DEMOLITION PLAN

SHEET NO.

R-03



LEGEND

- 8' H CL CONSTRUCTION FENCE (DRIVEN POSTS AND PRIVACY SCREEN)
- REMOVAL AREA
- TREE PROTECTION FENCE (TO BE PLACED AT DRIPLINE)
- STABILIZED CONSTRUCTION ENTRY
- REMOVAL ITEM
- CONCRETE WASHOUT
- FENCE REMOVAL
- TRANSPLANT/SALVAGE ITEM

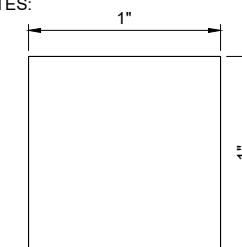


PROVIDED	REQUIRED
1	0
18	11
18	6
8	5

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS.
WHEN PRINTED TO THE
CORRECT SCALE, THE BOX
ABOVE MEASURES 1' x 1'.

DRAWING SCALE: 1"= 10'-0"

REVISIONS:

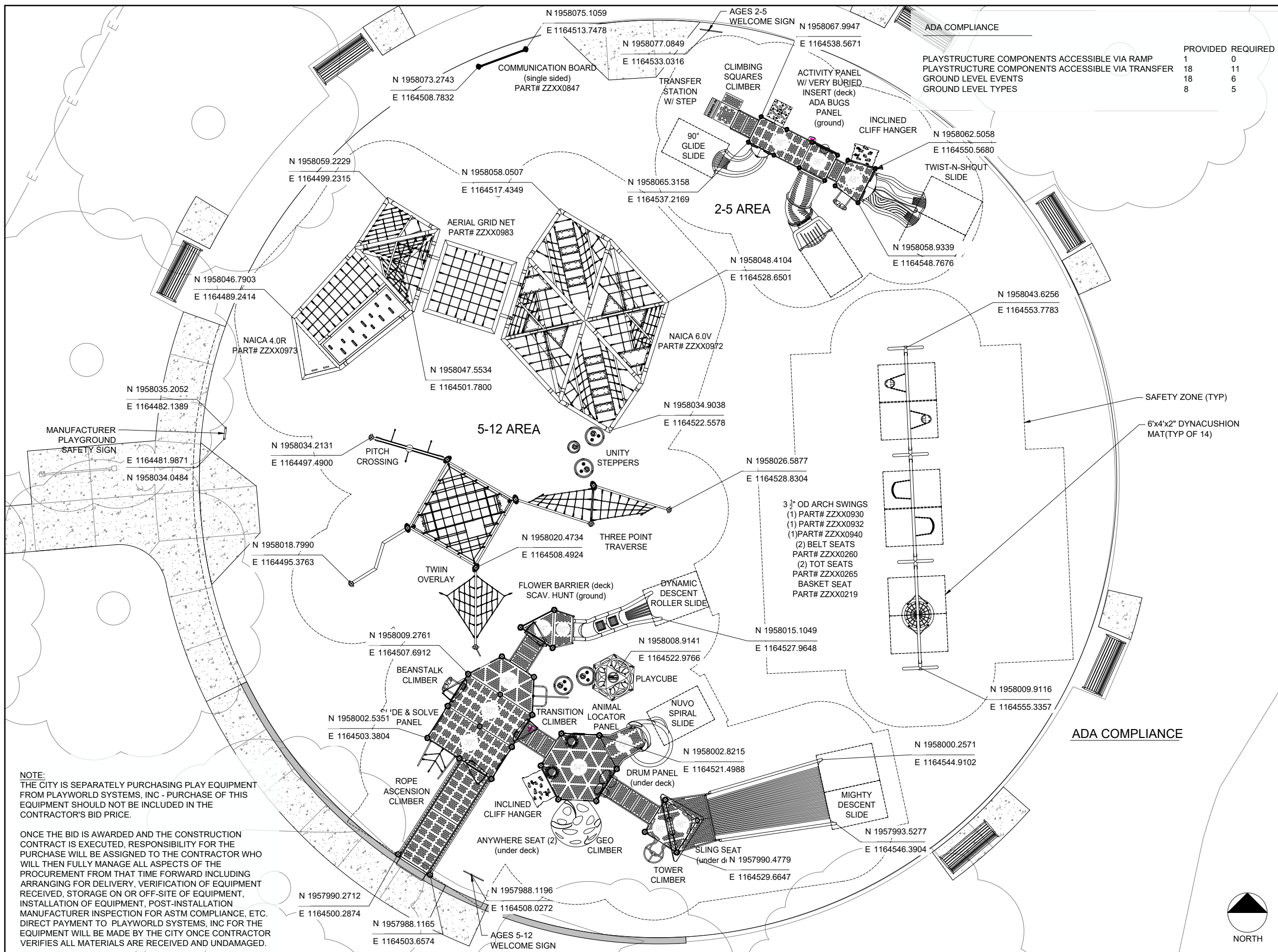
05/28/2026 BID SET

SHEET TITLE

BURNHAM SHORES PLAYGROUND ENLARGEMENT

SHEET NO.

L-01B



NOTE:
THE CITY IS SEPARATELY PURCHASING PLAY EQUIPMENT FROM PLAYWORLD SYSTEMS, INC - PURCHASE OF THIS EQUIPMENT SHOULD NOT BE INCLUDED IN THE CONTRACTOR'S BID PRICE.

ONCE THE BID IS AWARDED AND THE CONSTRUCTION CONTRACT IS EXECUTED, RESPONSIBILITY FOR THE PURCHASE WILL BE ASSIGNED TO THE CONTRACTOR WHO WILL THEN FULLY MANAGE ALL ASPECTS OF THE PROCUREMENT FROM THAT TIME FORWARD INCLUDING ARRANGING FOR DELIVERY, VERIFICATION OF EQUIPMENT RECEIVED, STORAGE ON OR OFF-SITE OF EQUIPMENT, INSTALLATION OF EQUIPMENT, POST-INSTALLATION MANUFACTURER INSPECTION FOR ASTM COMPLIANCE, ETC. DIRECT PAYMENT TO PLAYWORLD SYSTEMS, INC FOR THE EQUIPMENT WILL BE MADE BY THE CITY ONCE CONTRACTOR VERIFIES ALL MATERIALS ARE RECEIVED AND UNDAMAGED.



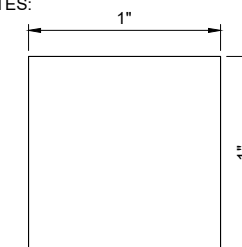


Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



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WHEN PRINTED TO THE
CORRECT SCALE, THE BOX
ABOVE MEASURES 1" x 1".

DRAWING SCALE: 1"= 60'-0"

REVISIONS:

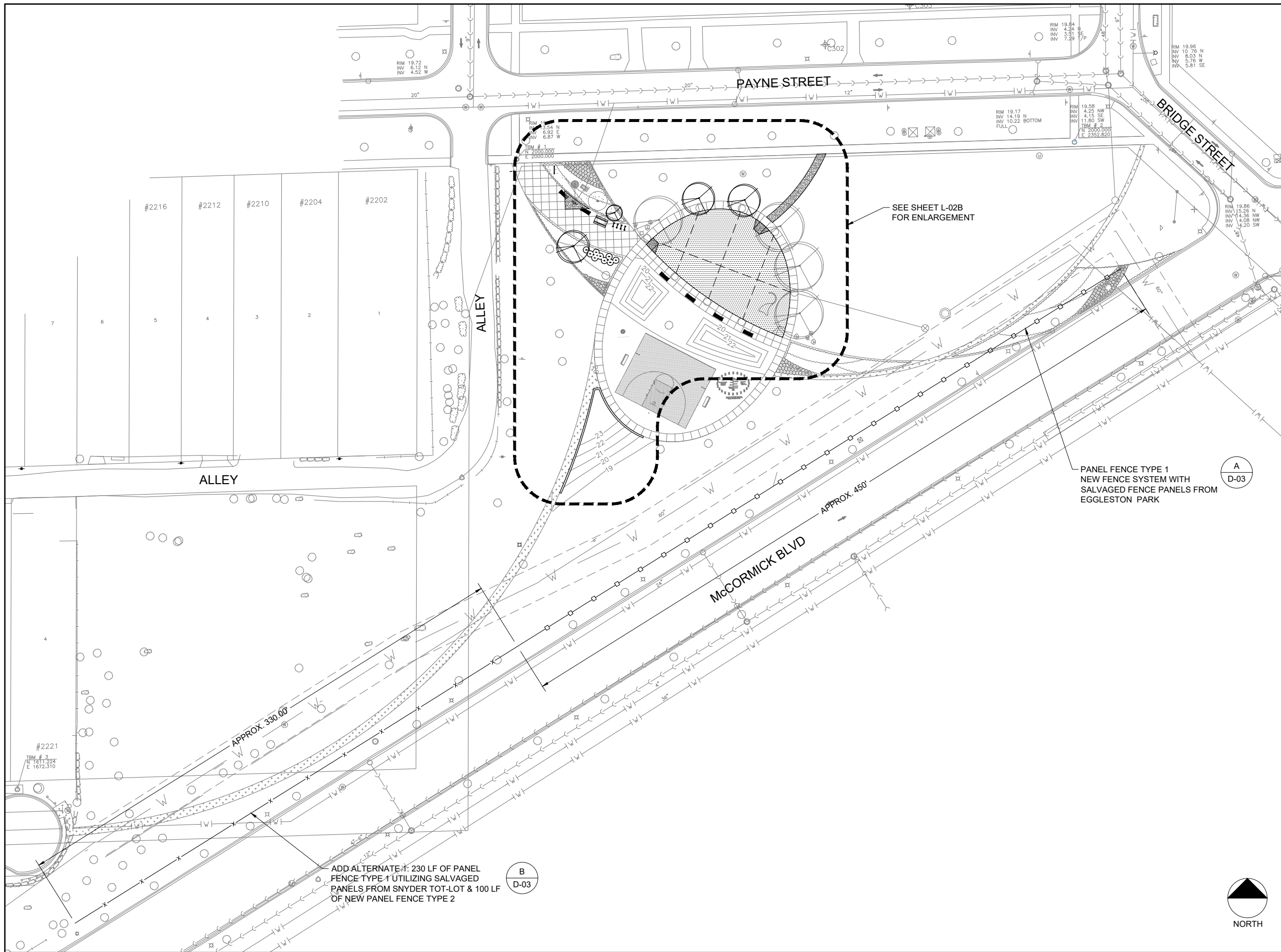
05/28/2026 BID SET

SHEET TITLE

EGGLESTON PARK LAYOUT PLAN

SHEET NO.

L-02A

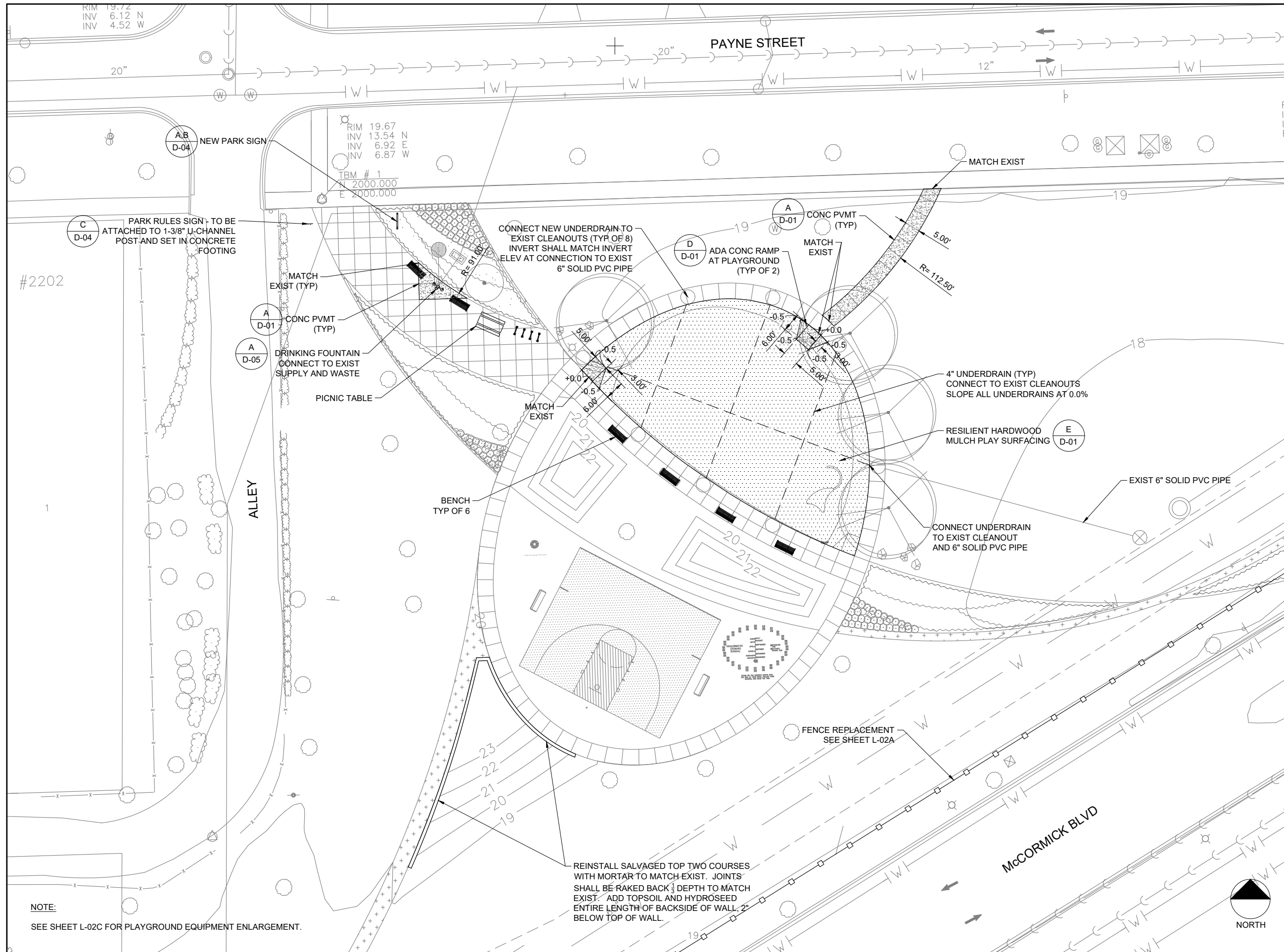


B
D-03

A
D-03

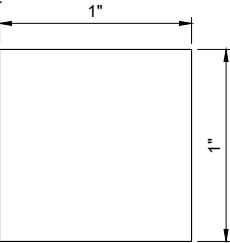
ADD ALTERNATE #1: 230 LF OF PANEL FENCE TYPE 1 UTILIZING SALVAGED PANELS FROM SNYDER TOT-LOT & 100 LF OF NEW PANEL FENCE TYPE 2





Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:
2026 PLAYGROUND IMPROVEMENTS

NOTES:

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DRAWING SCALE: 1"= 30'-0"

REVISIONS:

05/28/2026 BID SET

SHEET TITLE
EGGLESTON PARK LAYOUT ENLARGEMENT

SHEET NO.
L-02B

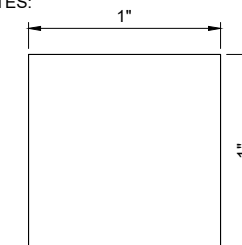
NOTE:
SEE SHEET L-02C FOR PLAYGROUND EQUIPMENT ENLARGEMENT.

REINSTALL SALVAGED TOP TWO COURSES WITH MORTAR TO MATCH EXIST. JOINTS SHALL BE RAKED BACK 1/2 DEPTH TO MATCH EXIST. ADD TOPSOIL AND HYDROSEED ENTIRE LENGTH OF BACKSIDE OF WALL, 2" BELOW TOP OF WALL.

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



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DRAWING SCALE: 1"= 10'-0"

REVISIONS:

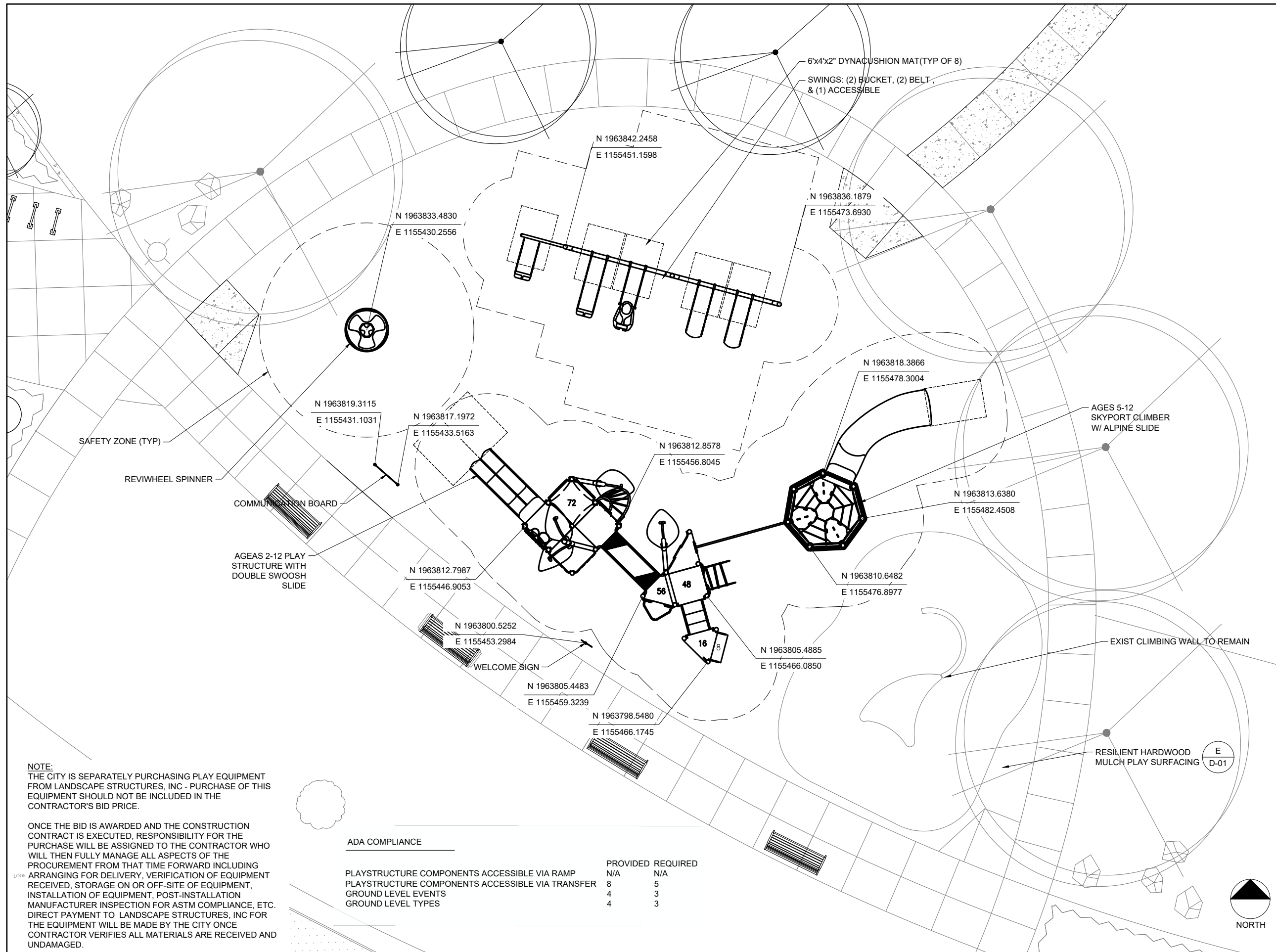
05/28/2026 BID SET

SHEET TITLE

EGGLESTON PARK PLAYGROUND ENLARGEMENT

SHEET NO.

L-02C



NOTE:
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ONCE THE BID IS AWARDED AND THE CONSTRUCTION CONTRACT IS EXECUTED, RESPONSIBILITY FOR THE PURCHASE WILL BE ASSIGNED TO THE CONTRACTOR WHO WILL THEN FULLY MANAGE ALL ASPECTS OF THE PROCUREMENT FROM THAT TIME FORWARD INCLUDING ARRANGING FOR DELIVERY, VERIFICATION OF EQUIPMENT RECEIVED, STORAGE ON OR OFF-SITE OF EQUIPMENT, INSTALLATION OF EQUIPMENT, POST-INSTALLATION MANUFACTURER INSPECTION FOR ASTM COMPLIANCE, ETC. DIRECT PAYMENT TO LANDSCAPE STRUCTURES, INC FOR THE EQUIPMENT WILL BE MADE BY THE CITY ONCE CONTRACTOR VERIFIES ALL MATERIALS ARE RECEIVED AND UNDAMAGED.

ADA COMPLIANCE

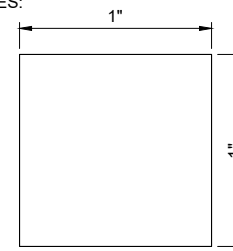
	PROVIDED	REQUIRED
PLAYSTRUCTURE COMPONENTS ACCESSIBLE VIA RAMP	N/A	N/A
PLAYSTRUCTURE COMPONENTS ACCESSIBLE VIA TRANSFER	8	5
GROUND LEVEL EVENTS	4	3
GROUND LEVEL TYPES	4	3



PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: 1"= 30'-0"

REVISIONS:

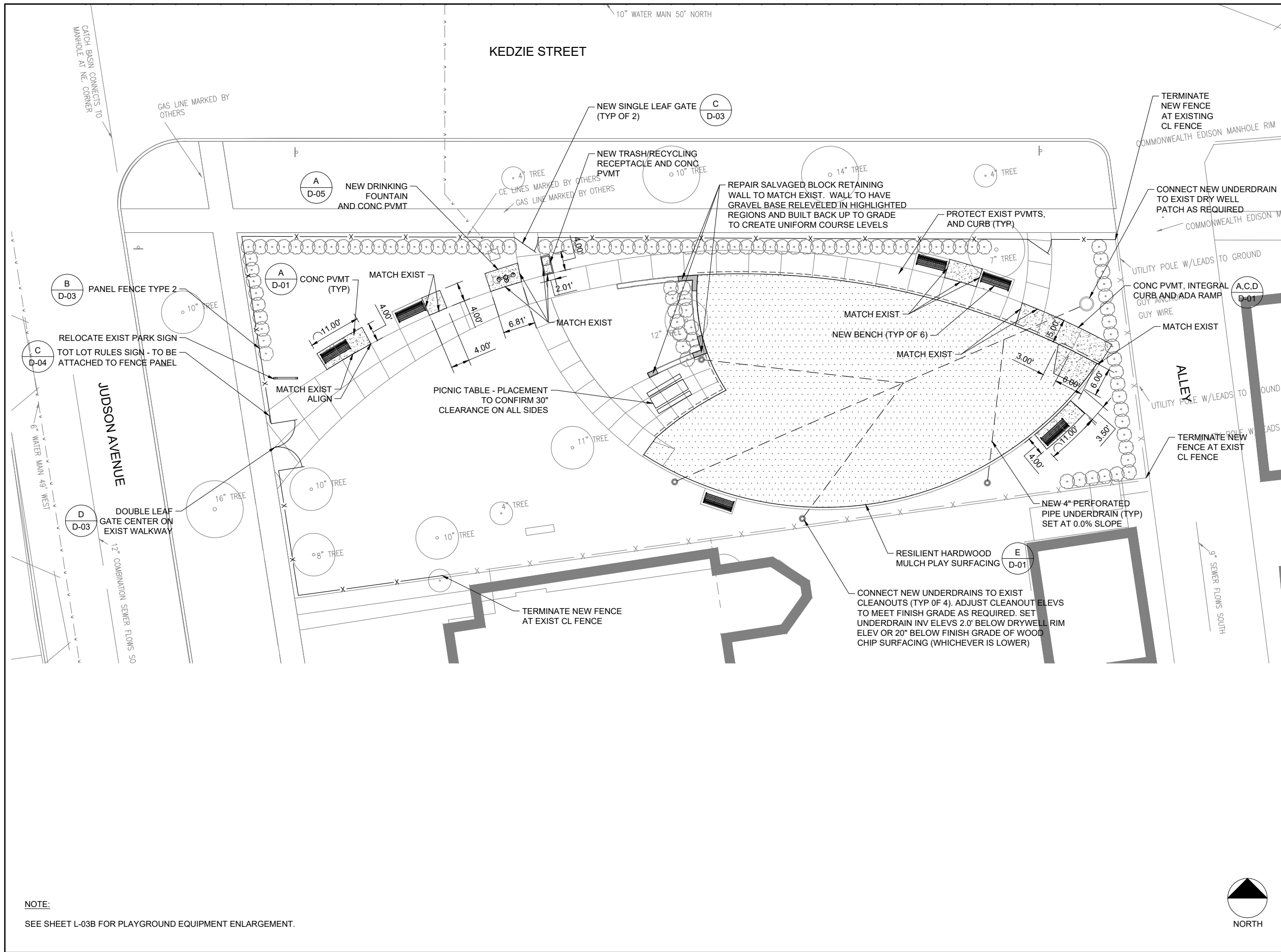
05/28/2026 BID SET

SHEET TITLE

SNYDER TOT LOT LAYOUT PLAN

SHEET NO.

L-03A



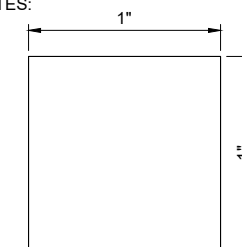
NOTE:
SEE SHEET L-03B FOR PLAYGROUND EQUIPMENT ENLARGEMENT.



PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



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DRAWING SCALE: 1"= 10'-0"

REVISIONS:

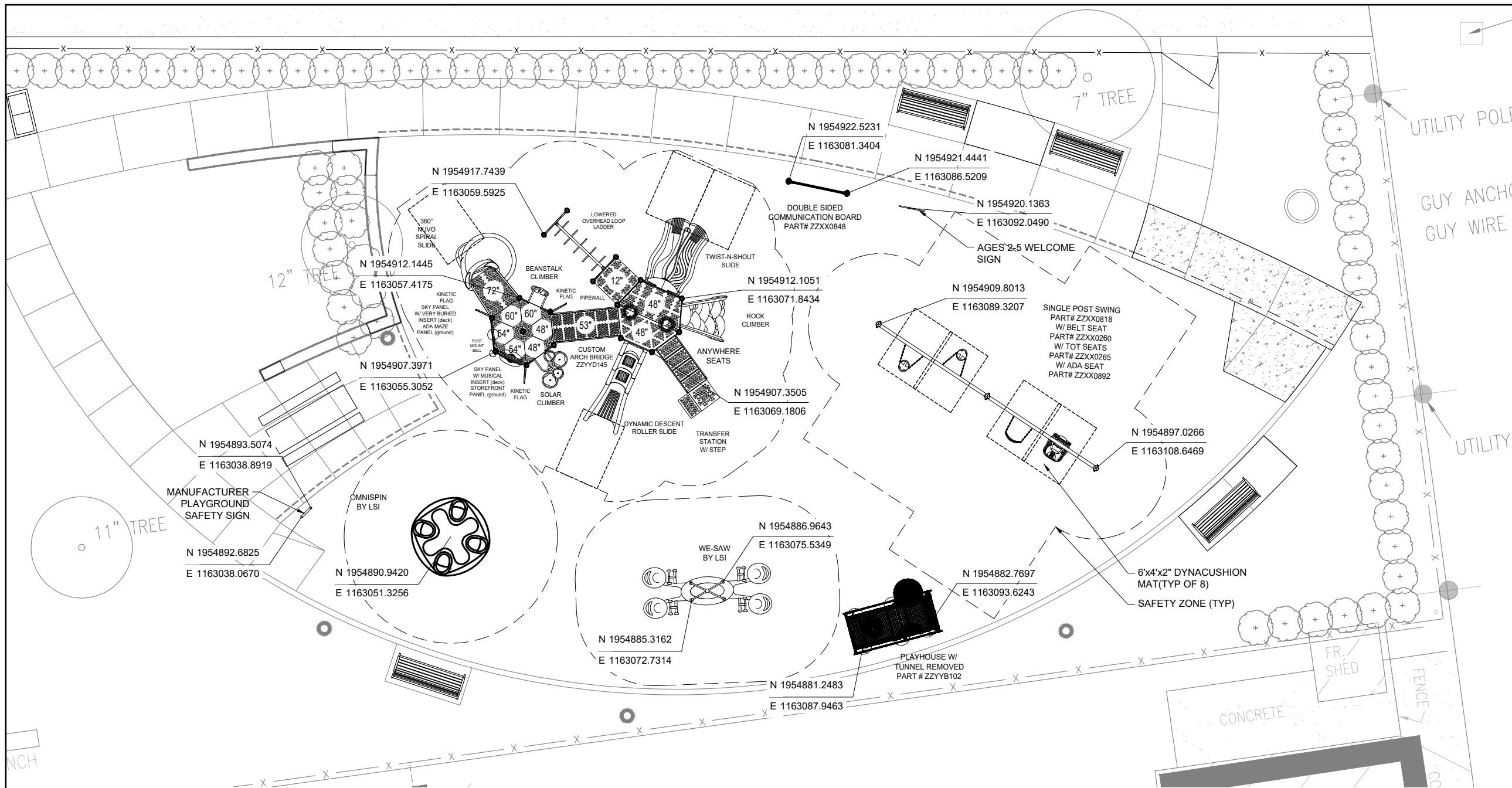
05/28/2026 BID SET

SHEET TITLE

SNYDER TOT LOT PLAYGROUND ENLARGEMENT

SHEET NO.

L-03B



NOTE:
THE CITY IS SEPARATELY PURCHASING PLAY EQUIPMENT FROM PLAYWORLD SYSTEMS, INC & LANDSCAPE STRUCTURES, INC - PURCHASE OF THIS EQUIPMENT SHOULD NOT BE INCLUDED IN THE CONTRACTOR'S BID PRICE.

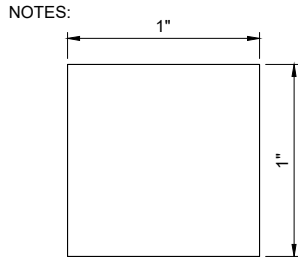
ONCE THE BID IS AWARDED AND THE CONSTRUCTION CONTRACT IS EXECUTED, RESPONSIBILITY FOR THE PURCHASE WILL BE ASSIGNED TO THE CONTRACTOR WHO WILL THEN FULLY MANAGE ALL ASPECTS OF THE PROCUREMENT FROM THAT TIME FORWARD INCLUDING ARRANGING FOR DELIVERY, VERIFICATION OF EQUIPMENT RECEIVED, STORAGE ON OR OFF-SITE OF EQUIPMENT, INSTALLATION OF EQUIPMENT, POST-INSTALLATION MANUFACTURER INSPECTION FOR ASTM COMPLIANCE, ETC. DIRECT PAYMENT TO PLAYWORLD SYSTEMS, INC & LANDSCAPE STRUCTURES, INC FOR THE EQUIPMENT WILL BE MADE BY THE CITY ONCE CONTRACTOR VERIFIES ALL MATERIALS ARE RECEIVED AND UNDAMAGED.

ADA COMPLIANCE 2-5 STRUCTURE

	PROVIDED	REQUIRED
PLAYSTRUCTURE COMPONENTS ACCESSIBLE VIA RAMP	N/A	N/A
PLAYSTRUCTURE COMPONENTS ACCESSIBLE VIA TRANSFER	8	5
GROUND LEVEL EVENTS	11	3
GROUND LEVEL TYPES	7	3



PROJECT NAME:
2026 PLAYGROUND IMPROVEMENTS



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1' x 1'.

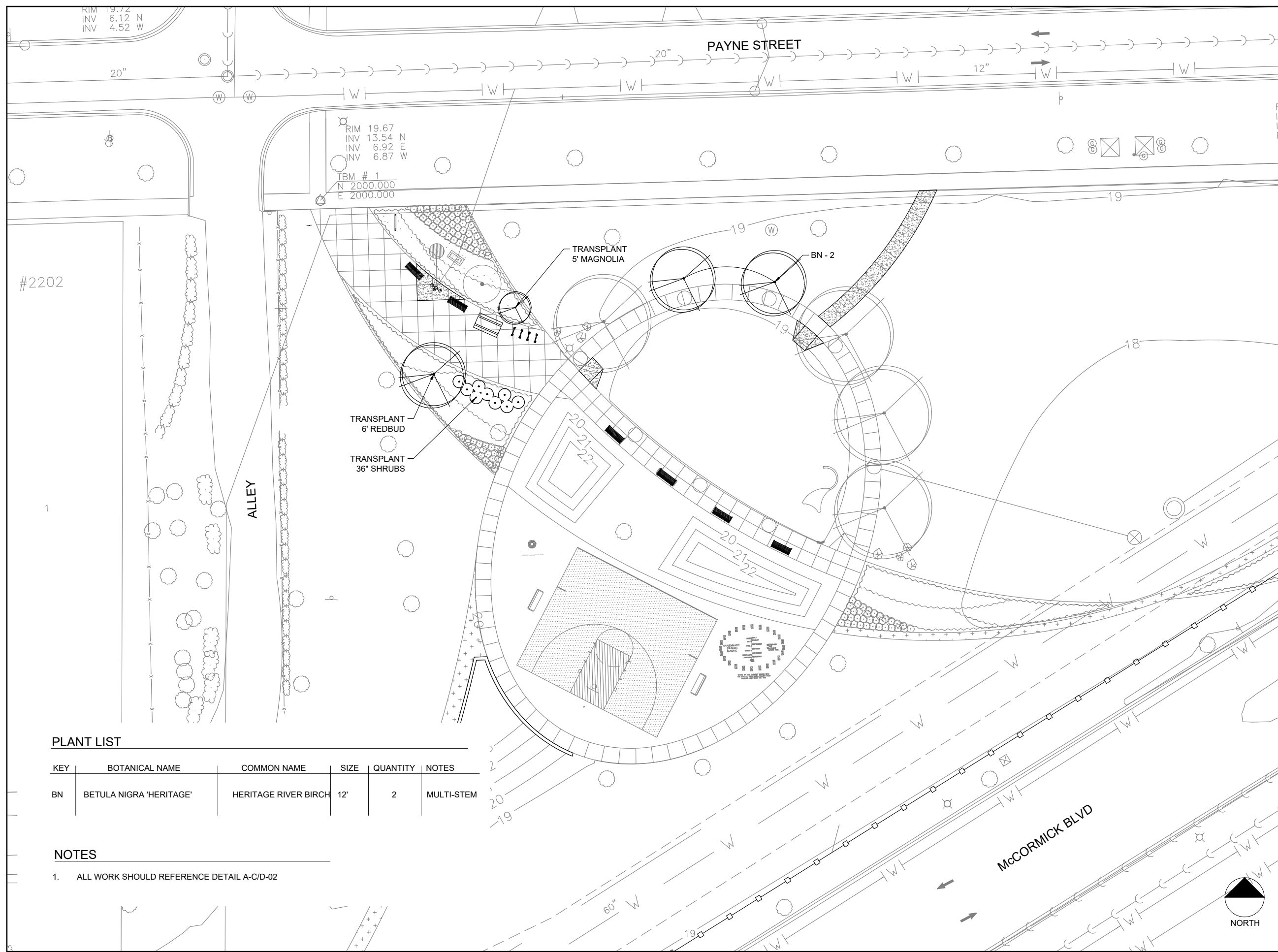
DRAWING SCALE: 1"= 30'-0"

REVISIONS:

05/28/2026 BID SET

SHEET TITLE
EGGLESTON PARK PLANTING PLAN

SHEET NO.
P-01

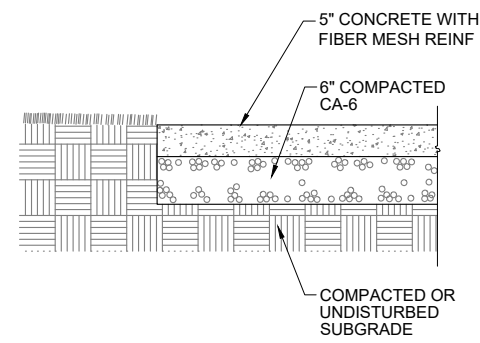


PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	NOTES
BN	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	12'	2	MULTI-STEM

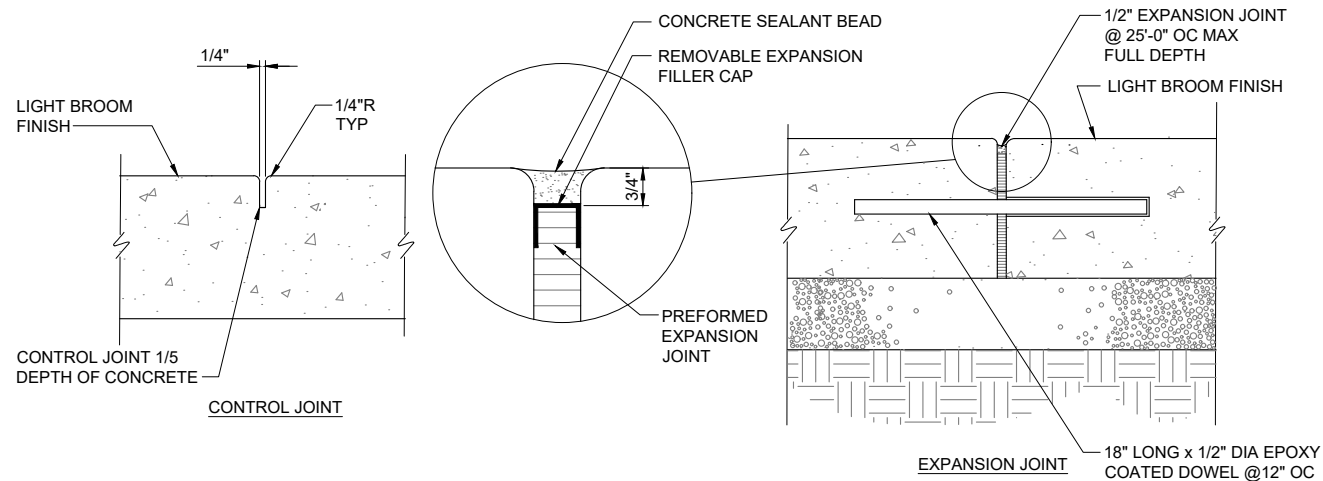
NOTES

- ALL WORK SHOULD REFERENCE DETAIL A-C/D-02

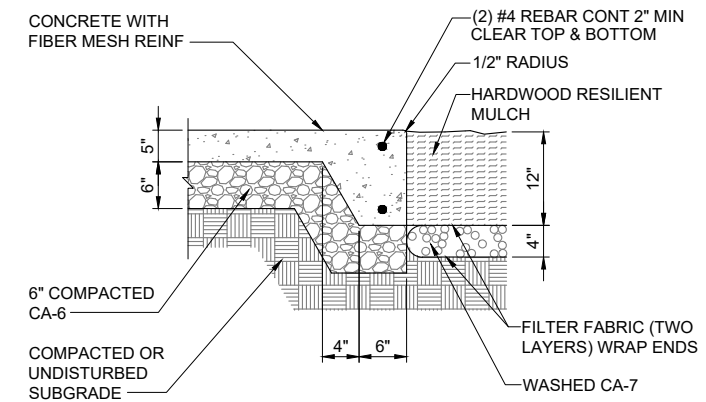


- NOTES:**
- SEE DETAIL B SHEET D-01 FOR JOINTS.
 - CONTRACTOR SHALL PLACE CONTROL JOINTS EVERY 5' AND EXPANSION JOINTS EVERY 25' OR AS SHOWN ON PLANS.

A CONCRETE PAVEMENT NOT TO SCALE

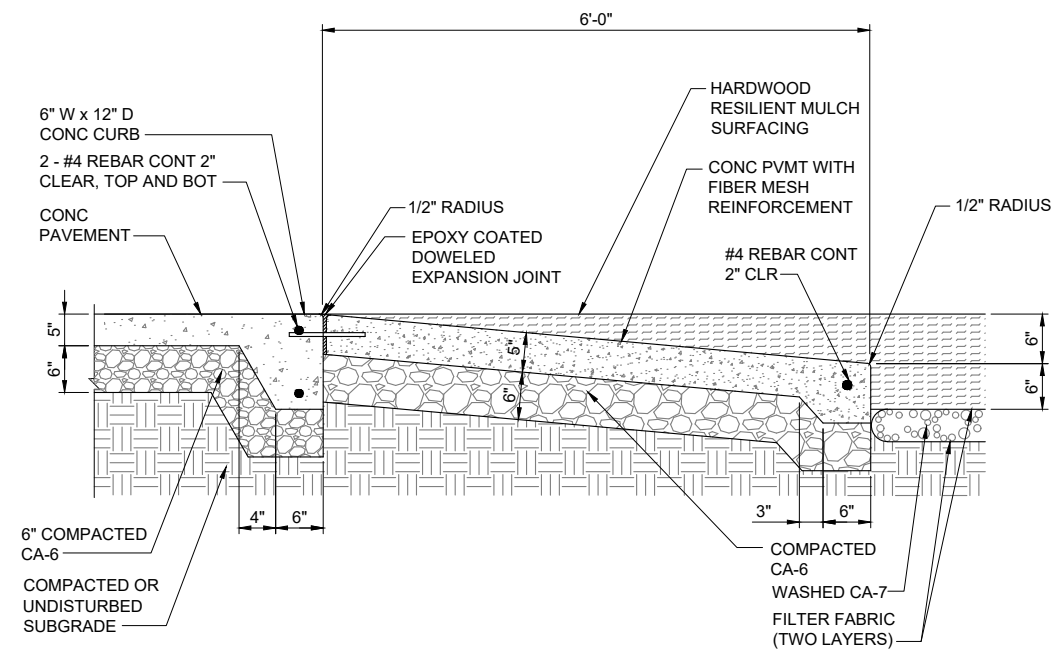


B CONTROL AND EXPANSION JOINTS NOT TO SCALE

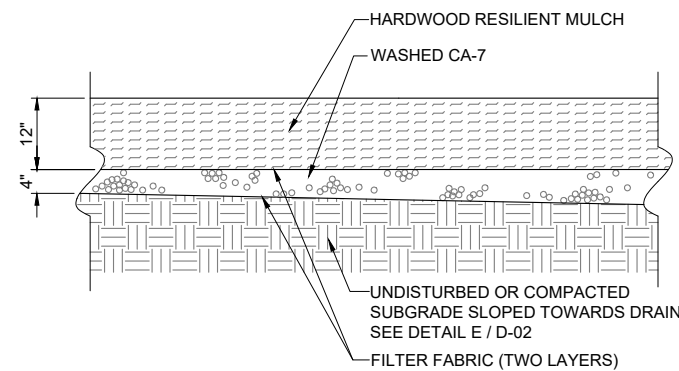


- NOTES:**
- LIGHT BROOM FINISH ENTIRE VERTICAL FACE OF CURB WHEREVER ADJACENT TO HARDWOOD RESILIENT MULCH SURFACING.
 - CONTRACTOR SHALL INSTALL EXPANSION JOINTS EVERY 25'.

C INTEGRAL CONCRETE CURB NOT TO SCALE



D CONCRETE ADA RAMP AND CURB NOT TO SCALE

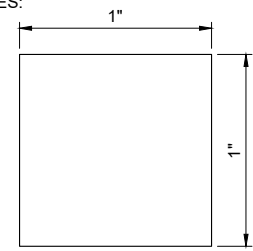


E HARDWOOD RESILIENT MULCH SURFACING NOT TO SCALE

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: NONE

REVISIONS:

05/28/2026 BID SET

SHEET TITLE

DETAILS

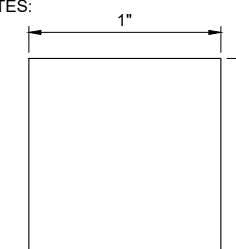
SHEET NO.

D-01

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: AS SHOWN

REVISIONS:

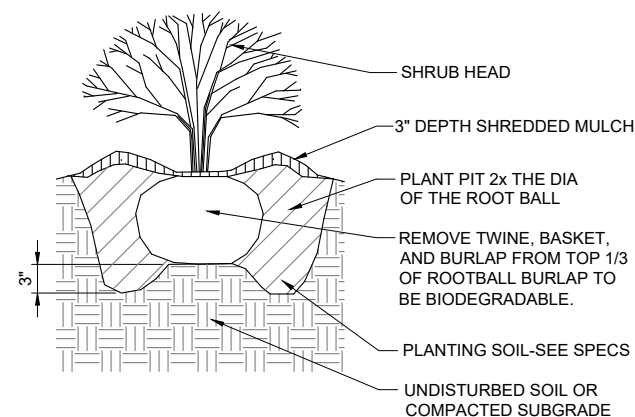
05/28/2026 BID SET

SHEET TITLE

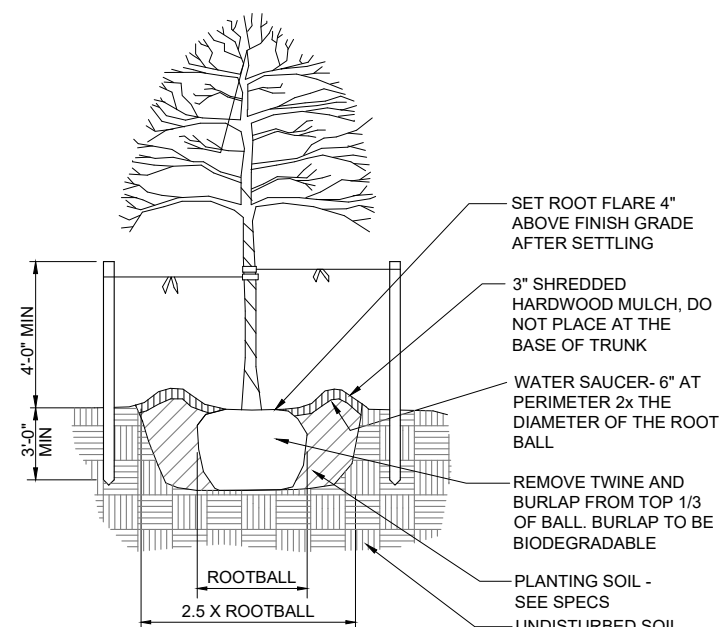
DETAILS

SHEET NO.

D-02

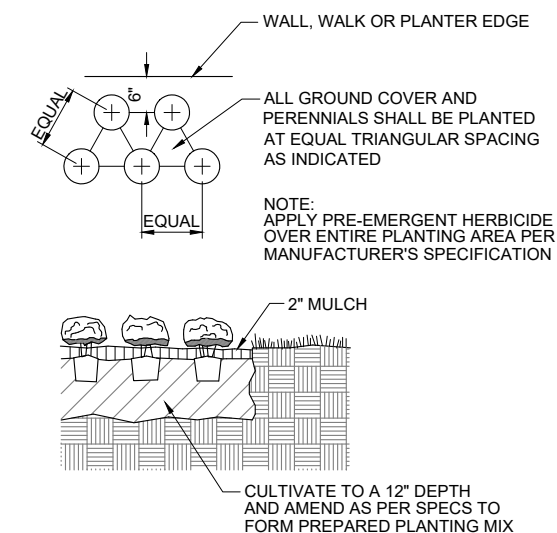


A SHRUB PLANTING NOT TO SCALE

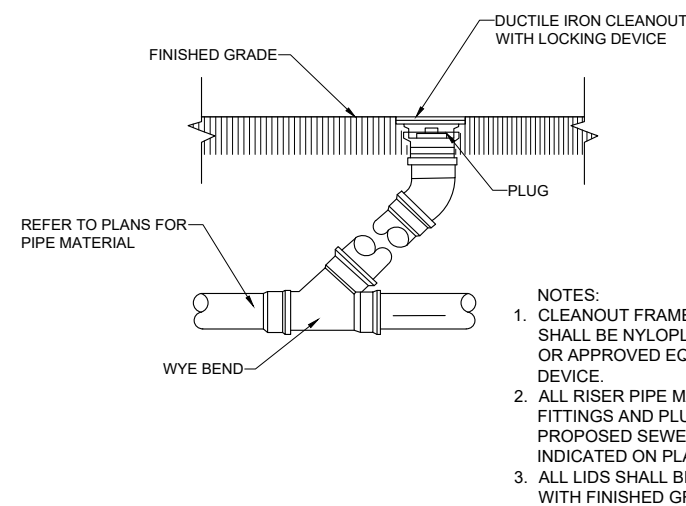


- NOTES:
1. REMOVE WIRE BASKET, TWINE, AND ROPE. PULL BURLAP DOWN FROM TOP 1/3 OF ROOTBALL.
 2. REMOVE ALL RIBBONS OR TREE TAGS AFTER OWNER APPROVAL.
 3. TREES SHALL BE ALIGNED AND PLUMB AFTER WATERING AND SETTLING.
 4. PRUNE TREES AS REQUIRED AND AS DIRECTED BY THE OWNER.
 5. IF TREE FAILS TO REMAIN PLUMB, CONTRACTOR SHALL INSTALL 2 STEEL POSTS WITH 2 HORIZONTALLY OPPOSED GUY WIRES AND FLAGGING AND 2 REINF RUBBER HOSE SECTIONS WITH A DOUBLE STRAND OF #11 WIRE PER TREE. WRAP WIRE A MINIMUM OF 2 TIMES AROUND EACH POST.

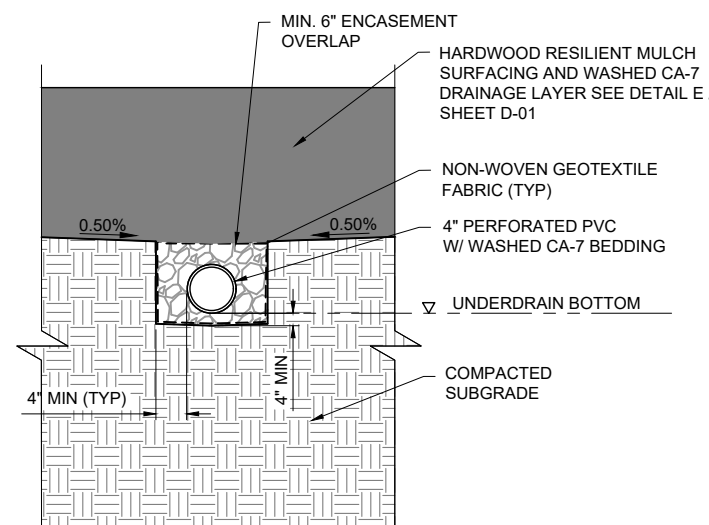
B TREE PLANTING NOT TO SCALE



C GROUNDCOVER AND PERENNIAL PLANTING NOT TO SCALE



D TYPICAL CLEANOUT TO FINISHED GRADE NOT TO SCALE



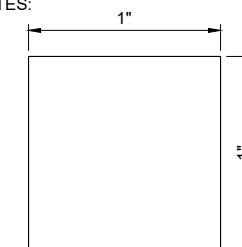
NOTE:
PERFORATED PIPE SHALL NOT BE WRAPPED IN GEOTEXTILE SOCK DIRECTLY AROUND PIPE.

E PERFORATED UNDERDRAIN NOT TO SCALE

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: AS SHOWN

REVISIONS:

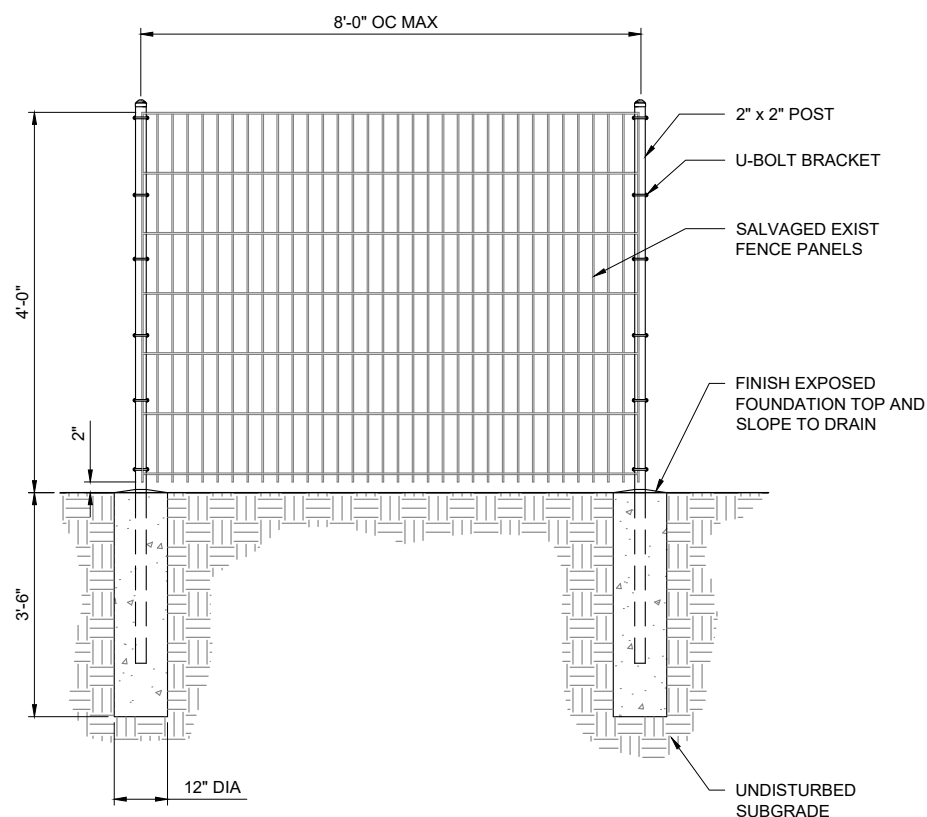
05/28/2026 BID SET

SHEET TITLE

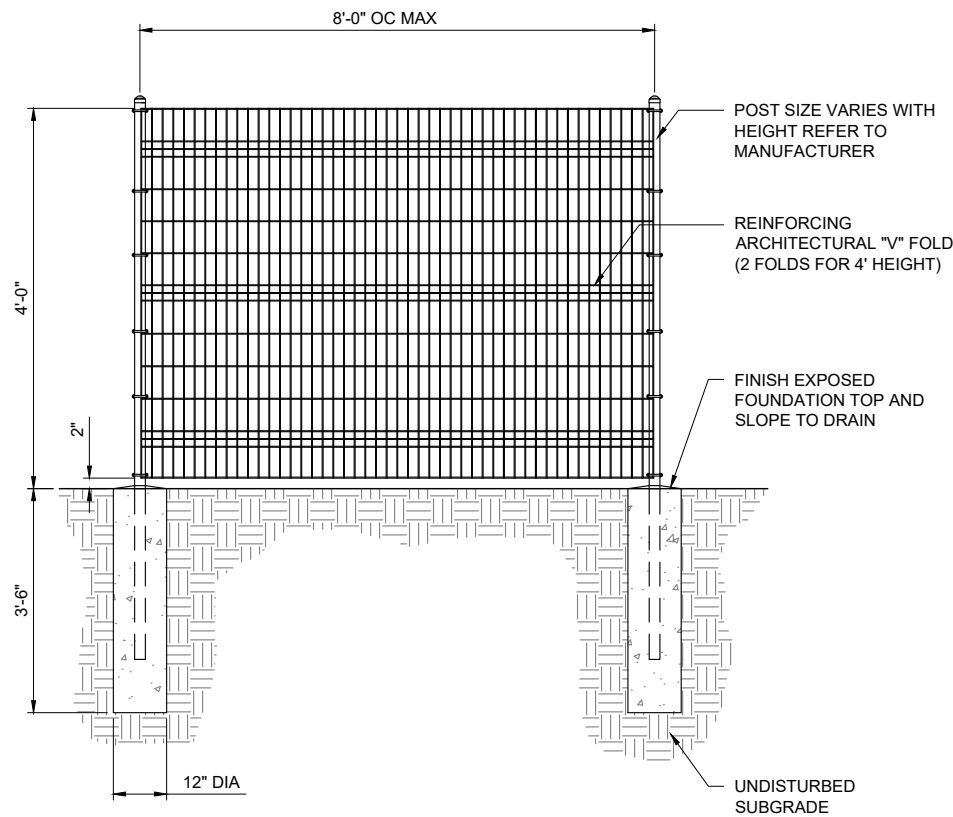
DETAILS

SHEET NO.

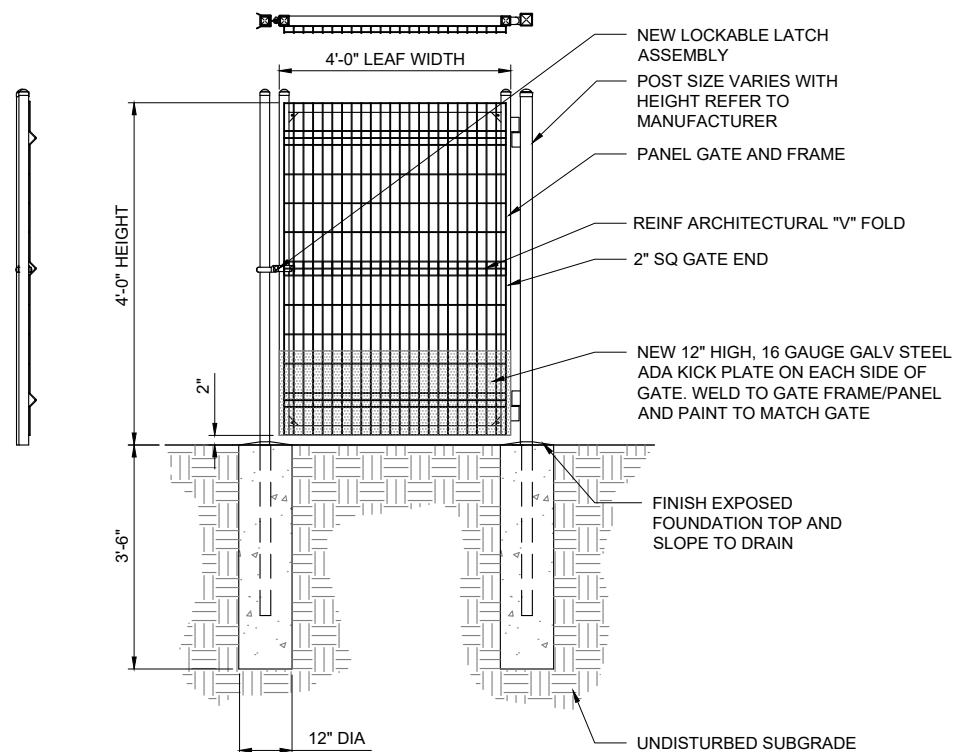
D-03



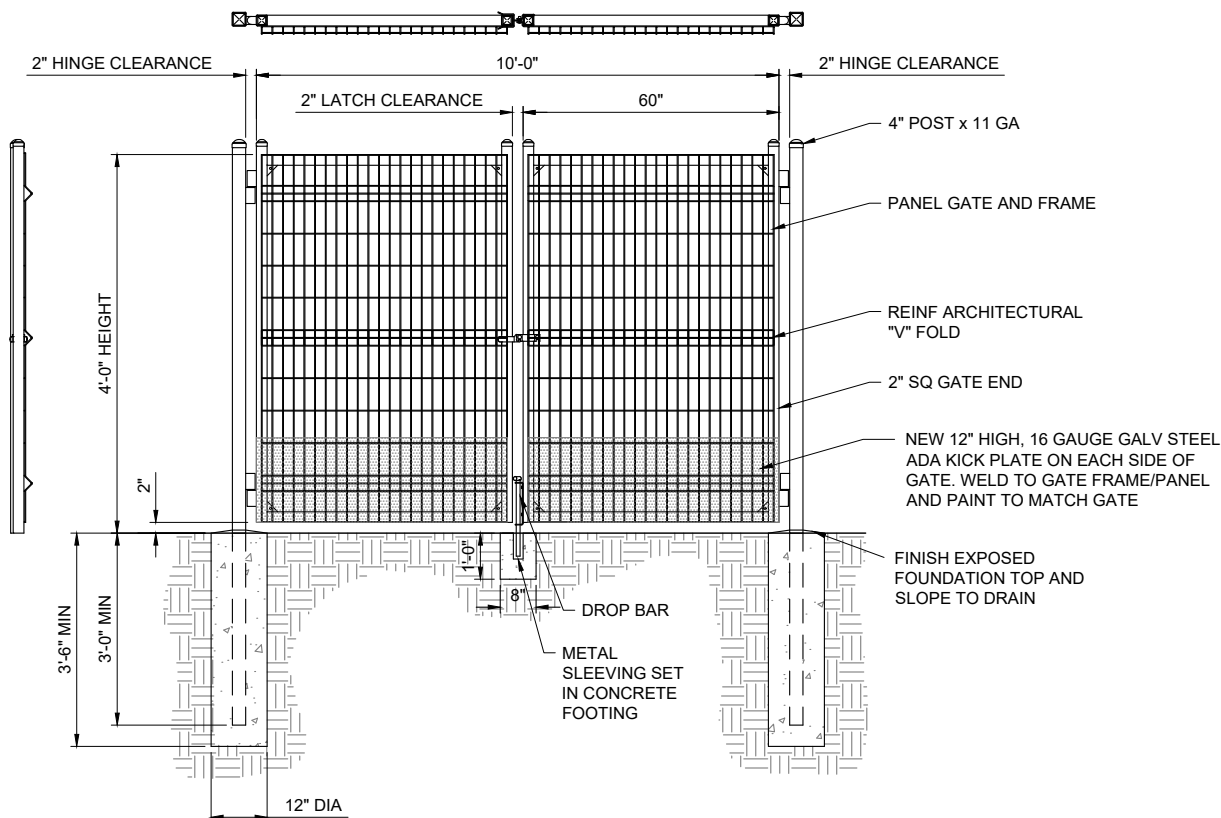
A PANEL FENCE TYPE 1 NOT TO SCALE



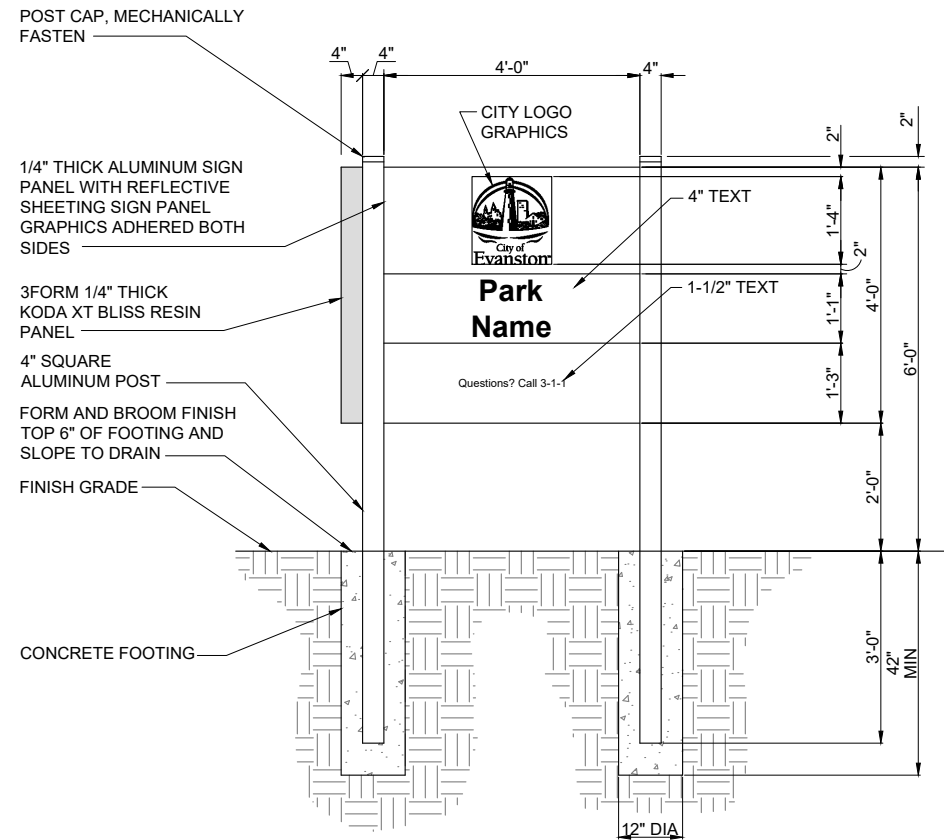
B PANEL FENCE TYPE 2 NOT TO SCALE



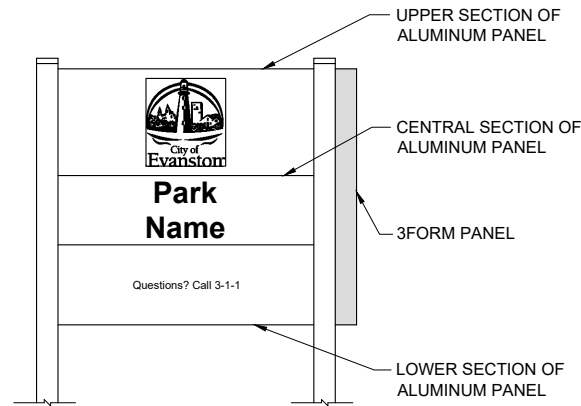
C SINGLE LEAF GATE - TYPE 2 NOT TO SCALE



D DOUBLE LEAF GATE - TYPE 2 NOT TO SCALE



FRONT PANEL AND FOOTING



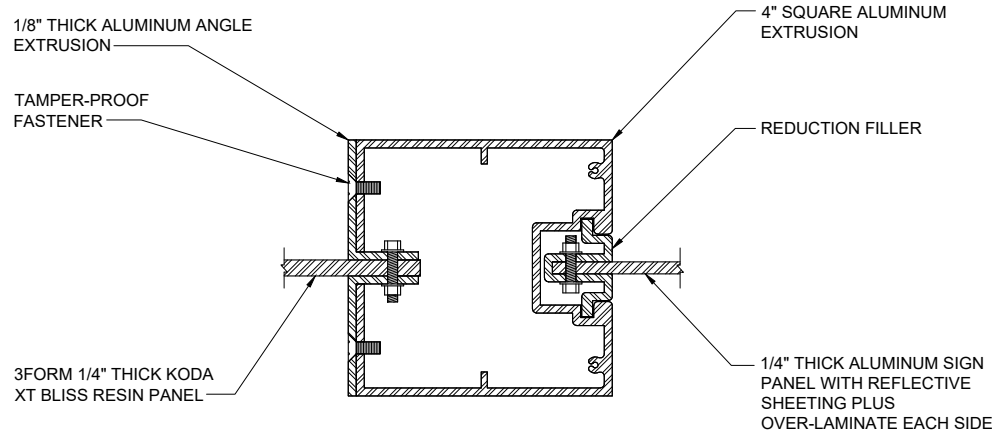
BACK PANEL

NOTES:

1. BACK PANEL SHALL BE SIMILAR TO FRONT PANEL.
2. COLORS SHALL BE AS FOLLOWS, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION:
 - 2.1. TEXT SHALL BE "WHITE".
 - 2.2. CITY LOGO GRAPHICS SHALL BE "LIGHT BLUE".
 - 2.3. 3FORM PANEL SHALL BE "BLISS".
 - 2.4. UPPER AND LOWER SECTIONS OF ALUMINUM PANEL SHALL BE "ONYX".
 - 2.5. CENTRAL SECTION OF ALUMINUM PANEL SHALL BE "BLACK STALLION".
3. ALL TEXT AND GRAPHICS SHALL BE CENTERED IN SIGN FACE.
4. TYPEFACE SHALL BE HELVETICA NEUE BOLD FOR 4" TEXT AND HELVETICA NEUE LIGHT FOR 1-1/2" TEXT.

A PARK SIGN

NOT TO SCALE



B PARK SIGN POST AND CONNECTION

NOT TO SCALE



NOTES:

1. SIGNS TO BE PRINTED ON .080 THICK ALUMINUM
2. TO BE MOUNTED ON 1-3/8" U-CHANNEL STEEL POST W/ BAKED ENAMEL FINISH - COLOR TBD

C PARK AND TOT LOT RULES SIGNAGE

NOT TO SCALE

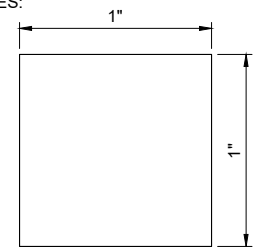


Public Works Agency
909 Davis Street
Evanston, Illinois 60201

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



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DRAWING SCALE: AS SHOWN

REVISIONS:

05/28/2026 BID SET

SHEET TITLE

DETAILS

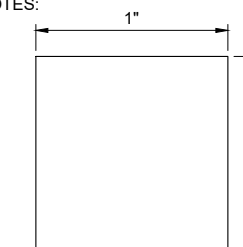
SHEET NO.

D-04

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS. WHEN PRINTED TO THE CORRECT SCALE, THE BOX ABOVE MEASURES 1" x 1".

DRAWING SCALE: AS SHOWN

REVISIONS:

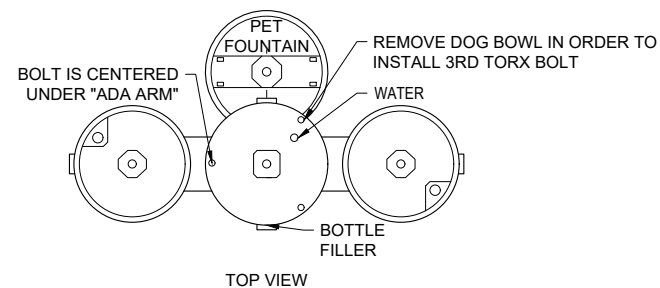
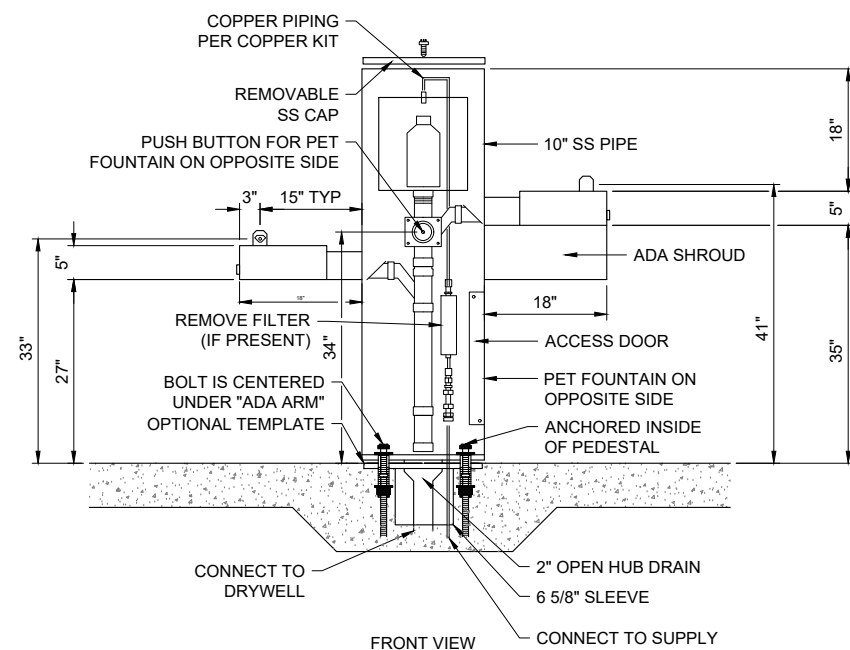
05/28/2026 BID SET

SHEET TITLE

DETAILS

SHEET NO.

D-05

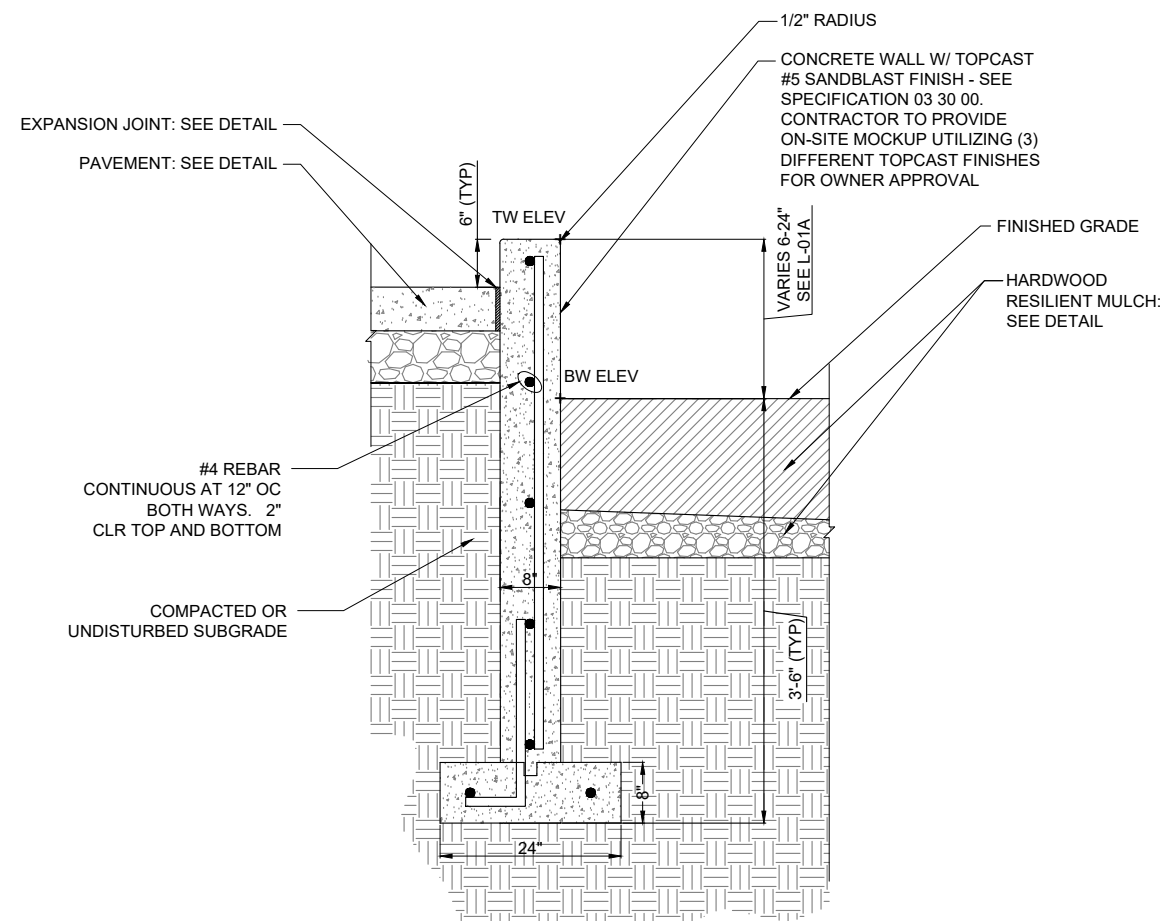


NOTES:

1. MOST DEPENDABLE FOUNTAIN MODEL #10145SMSS. COLOR TO BE SELECTED BY OWNER.
2. INSTALLATION SHALL INCLUDE RECESSED HOSE BIBB AND LOCK DOOR.
3. INSTALLATION SHALL INCLUDE ADA COMPLIANT SHROUD FOR HIGH BOWL.
4. INSTALLATION SHALL INCLUDE BOWL SAND STRAINER.
5. INSTALLATION SHALL INCLUDE OPTIONAL 10\"/>

A DRINKING FOUNTAIN

NOT TO SCALE



NOTES:

1. TOPCAST SANDBLAST FINISH ALL EXPOSED FACES.
2. CONTRACTOR SHALL INSTALL EXPANSION JOINTS EVERY 25'.

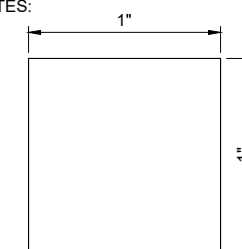
B 8\"/>

NOT TO SCALE

PROJECT NAME:

2026 PLAYGROUND IMPROVEMENTS

NOTES:



DO NOT SCALE DRAWINGS.
WHEN PRINTED TO THE
CORRECT SCALE, THE BOX
ABOVE MEASURES 1" x 1".

DRAWING SCALE: AS SHOWN

REVISIONS:

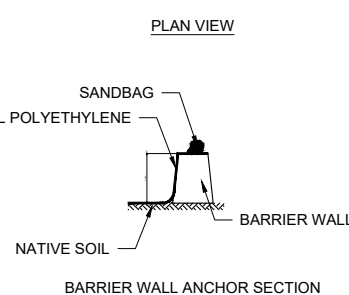
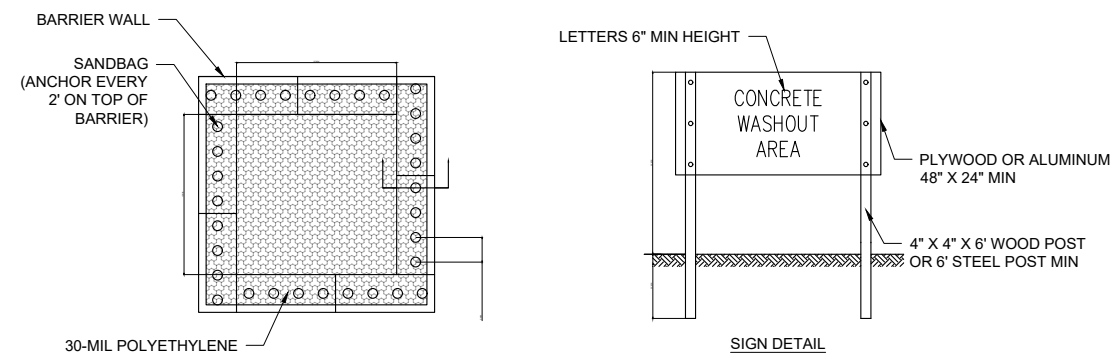
05/28/2026 BID SET

SHEET TITLE

DETAILS

SHEET NO.

D-06

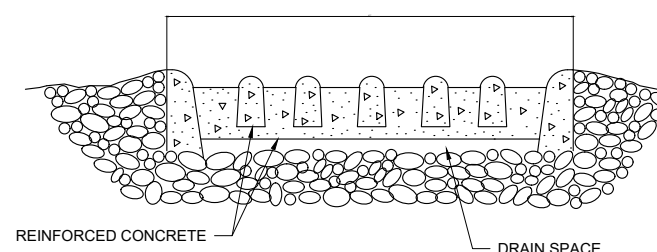
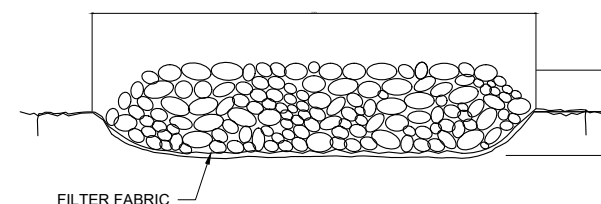
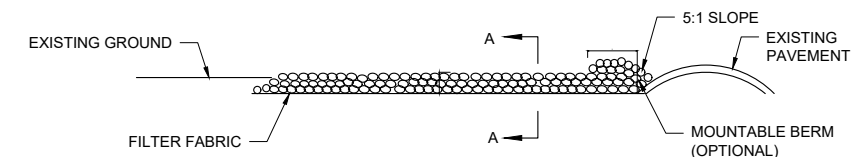
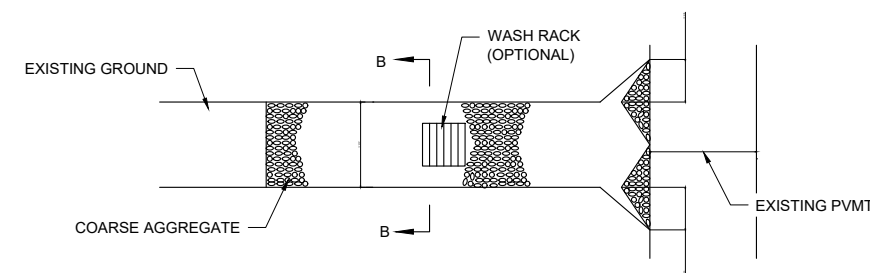


NOTES:

1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.

A TEMPORARY CONCRETE WASHOUT FACILITY

NOT TO SCALE



NOTES:

*MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION.

1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE I OR 2, CLASS I, II, OR IV AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACING OF THE ROCK.
2. ROCK OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATION, CA-1, CA-2, CA-3, OR CA-4 AND BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 25 ROCKFILL USING PLACEMENT METHOD 1 AND CLASS III COMPACTION.
3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

C STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

<p>PROPOSED SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION ABOVE EXISTING WATER MAIN</p> <p>GUIDELINES</p> <ol style="list-style-type: none"> 1. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT. 2. OMIT SELECT GRANULAR EMBEDEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF 7' FEET. 3. A) CONSTRUCT 7" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR B) USE 7" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING. <p>NOTE: "S" THE LENGTH NECESSARY TO PROVIDE TO FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN</p> <p>*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.</p>	<p>PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH LESS THAN 18" MINIMUM VERTICAL SEPARATION</p> <p>GUIDELINES</p> <ol style="list-style-type: none"> 1. OMIT SELECT GRANULAR EMBEDEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF 7' FEET ON EACH SIDE OF WATER MAIN. 2. A) CONSTRUCT 7" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR B) USE 7" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING. 3. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH. <p>NOTE: "S" THE LENGTH NECESSARY TO PROVIDE TO FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN</p> <p>*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.</p>	<p>PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" MINIMUM VERTICAL SEPARATION</p> <p>GUIDELINES</p> <ol style="list-style-type: none"> 1. OMIT SELECT GRANULAR EMBEDEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF 7' FEET. 2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT. 3. USE 7" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING. 4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN CASING AND SEWER. <p>NOTE: "S" THE LENGTH NECESSARY TO PROVIDE TO FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING SEWER LINE</p> <p>*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.</p>
<p>PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH 18" MINIMUM VERTICAL SEPARATION</p> <p>GUIDELINES</p> <ol style="list-style-type: none"> 1. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH. <p>*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.</p>	<p>PLACEMENT OF WATER MAIN BELOW EXISTING OR PROPOSED SEWER LINE WITH LESS THAN 18" MINIMUM VERTICAL SEPARATION, NOT ALLOWED.</p> <p>NOT ALLOWED* MUST MAINTAIN 18" VERTICAL SEPARATION</p> <p>*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.</p>	<p>PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION</p> <p>NOTE: "S" THE LENGTH NECESSARY TO PROVIDE TO FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING SEWER LINE</p> <p>*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.</p> <p>GUIDELINES</p> <ol style="list-style-type: none"> 1. OMIT SELECT GRANULAR EMBEDEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF 7' FEET. 2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT. 3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT. 4. USE 7" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
<p>TECHNICAL GUIDANCE MANUAL</p> <p>WATER AND SEWER SEPARATION REQUIREMENTS (PER IEPA)</p>		
<p>7/1/15</p> <p>STD. DWG. NO. 41</p> <p>PAGE NO. 42</p>		

B WATER AND SEWER SEPARATION REQUIREMENTS (PER IEPA)

C STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

2/9/2026

1-O-26

AN ORDINANCE

Amending Title 1, Chapter 17, “Contracts with the City”

WHEREAS, the City of Evanston is a unit of local government organized and operating under federal and state laws; and

WHEREAS, on May 27, 2025, the City of Evanston adopted the Responsible Bidder Ordinance to ensure that only qualified contractors and subcontractors are awarded contracts on public works construction projects, and to ensure that workers on public works construction projects are paid appropriate wages and receive appropriate benefits in accordance with state and federal law; and

WHEREAS, from time to time the City of Evanston is able to secure external sources of funding, for instance from federal or state grants, that impose distinct sets of requirements for grant eligibility that do not always dovetail with the requirements of the current City Code; and

WHEREAS, the City of Evanston wishes to amend its ordinance on Contracts with the City to clarify how it intersects with external funding conditions;

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF EVANSTON,
COOK COUNTY, ILLINOIS:**

SECTION 1: Title 1, Chapter 17, “Contracts with the City,” is hereby amended as follows:

(A) All contracts with the City costing in excess of twenty-five thousand dollars (\$25,000.00) must be approved by the City Council. Contracts for the purchase of goods or services to be utilized in the conduct of the affairs of the City, shall be let by the City Manager or his/her designee, with the approval of the City Council, to a reliable, responsible and acceptable bidder, after advertising for the same, and bonds to be approved by the City Council may be taken for the faithful performance thereof.

(B) All contracts for the purchase of goods or services with entirely City funds shall be awarded to the lowest quote/bid price or lowest evaluated quote/bid price from a responsive and responsible Evanston business enterprise ("EBE") provided the EBE's quote/bid price does not surpass the lowest quote/bid price or lowest evaluated quote/bid price from a responsive and responsible nonlocal business by more than five percent (5%). All contracts let from requests for proposals (RFPs) and requests for qualifications (RFQs) with entirely City funds shall be awarded to the most qualified consultant that is an EBE, provided the EBE price/cost does not surpass the lowest price/cost or lowest evaluated price/cost from a nonlocal business by more than five percent (5%). This requirement is waived if the contract is partially or completely funded from a source other than funds belonging to the City of Evanston, such as federal, state, or other grants, and (ii) the other funding source mandates terms that are inconsistent with or supersede this Section (B).

1. An "EBE" shall mean an entity which is located in or has one or more offices located in the City for a minimum of one year and which performs a "commercially useful function."

a. An EBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the EBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether an EBE is performing a commercially useful function, the City will evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the EBE credit claimed for its performance of the work and other relevant factors.

b. An EBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of EBE participation. In determining whether an EBE is such an extra participant, the City will examine similar transactions, particularly those in which EBEs do not participate.

c. If an EBE does not perform or exercise responsibility for at least thirty (30) percent of the total cost of its contract with its own work force, or the EBE subcontracts a greater portion of the work of a contract than would be expected on the basis of normal industry practice for the type of

work involved, then it is not performing a commercially useful function.

d. When an EBE is presumed not to be performing a commercially useful function as provided in Subsection (B)1c of this Section, the EBE may present evidence to rebut this presumption. The City may determine that the firm is performing a commercially useful function given the type of work involved and normal industry practices.

2. In determining whether a business has been located in Evanston for one (1) year, the MWEBE Committee will consider the following:

a. Whether the vendor pays property and/or sales taxes in Evanston; and

b. Whether the business entity's address or the address given on the federal and/or state income tax return is within Evanston.

c. The date of issuance of an Evanston business license.

The City may waive the one-year requirement if the entity provides evidence of a substantial commitment to Evanston.

3. Businesses that maintain a distribution warehouse or which manufacture in Evanston will receive EBE credit of sixty (60) percent and one hundred (100) percent, respectively. Those that do not maintain a distribution warehouse or manufacturing operation but have an office in Evanston will be considered a broker and receive a five (5) percent credit.

4. Eligibility as an EBE will be periodically reviewed and may be revoked at any time if the entity no longer meets the above requirements.

INSERT: (C) Local Employment Program.

INSERT: (D) Minority, women, disadvantage, and Evanston business enterprise (M/W/D/EBE) goals.

(E) *Additional Requirements for Public Works Contracts.* All bidders for public works contracts must comply with the below specifications in bid submission and during the project for a successful bidder. The City Council may, by a majority vote of the members present, waive any of these requirements for an Evanston-owned business enterprise as defined in Subsection 1-17-1(D)(1) or a nearby business enterprise as defined in Subsection 1-17-1(E)(1).

1. *Definitions.* For the purposes of this Subsection, the following definitions apply:

<i>APPRENTICESHIP TRAINING PROGRAM.</i>	A program approved and registered by the United States Department of Labor's Office of Apprenticeship, or its successor organization, that has graduated at least five (5) apprentices in each other past five (5) years for each of the construction crafts the bidder will perform on the project. Evidence of graduation rates are not required for apprentice able crafts dedicated exclusively to the transportation of material and equipment to and from the public works project.
<i>BIDDER.</i>	A contractor that submits a bid in response to a City of Evanston request for proposal.
<i>COMMERCIALLY USEFUL FUNCTION.</i>	A business enterprise that is responsible for the execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved.
<i>NEARBY BUSINESS ENTERPRISE ("NBE").</i>	A business enterprise located within five (5) miles of Evanston City limits for a minimum of one (1) year and performs a commercially useful function.
<i>PUBLIC WORKS CONTRACT.</i>	Any construction, alteration, demolition, or repair work done under contract on City-owned property.
<i>RELIABLE, RESPONSIVE AND ACCEPTABLE</i>	A bidder who submits a bid that conforms in all material respects to the requirements and criteria in the invitation for bids. This means the bid promises to perform in the precise manner requested by the government, and any minor irregularities in the bid shall not defeat responsiveness.

2. *Excessive Pass Through Prohibited.* Any bidder must directly perform at least twenty-five (25) percent of the services identified in the project solicitation. The named bidder submitting the bid must be the entity directly performing the services. Any affiliates and/or subsidiaries shall not contribute to the minimum performance percentage required.

3. *Apprenticeship Training Program Required.*

(a) Public Works contracts for over twenty-five thousand dollars (\$25,000.00) or greater shall only be let to: (i) a contractor with evidence of participation in an

apprenticeship training program applicable to the work to be performed on the project; or (ii) a contractor who has satisfied the experience requirements under subsection (d).

(b) All contracts submitted to the City Council must identify whether the contractor meets this requirement.

(c) Required evidence of participation in an apprenticeship program includes but is not limited to a copy of all applicable apprenticeship standards and apprenticeship agreement(s) for any apprentice(s) who will perform work on the public works project; and documentation from each applicable apprenticeship program certifying that it has graduated at least five (5) apprentices in each of the past five (5) years for each construction craft the bidder will perform on the project.

(d) Contractors may alternatively satisfy this requirement by certifying that all workers who will perform work on the public works project have relevant experience in lieu of participation in an apprenticeship program. Relevant experience may include: (i) performing at least one thousand eight hundred (1,800) hours of work in the trade the worker will perform on the public works project over the preceding two (2) years; (ii) completion of an apprenticeship program in the trade the worker will perform on the public works project; or (iii) obtaining a journeyman credential in the trade the worker will perform on the public works project. Required evidence to be eligible under this section includes but is not limited to W-2 records, journeyman credentials, apprenticeship completion cards, or certificates of graduation from apprenticeship programs.

This requirement is waived if the contract is partially or completely funded from a source other than funds belonging to the City of Evanston, such as federal, state, or other grants, and (ii) the other funding source mandates terms that are inconsistent with or supersede this Section (E)(3)(d).

(e) Additional evidence of apprenticeship participation, graduation requirements, or previous experience may be requested by the City of Evanston in its discretion.

4. *Occupational Safety and Health Administration Safety Cards Required.* Prior to beginning work for the City, the bidder shall certify that all employees for the contractor that will be on the work site shall have completed a ten-hour or greater OSHA safety program. The contractor must submit copies of the employees' OSHA cards to the City prior to the project commencing.

5. *Nearby Business Enterprises.* In the absence of an Evanston business enterprise as required by City Code 1-17-1(B), the City shall award the contract for the public works

contract to the lowest bid price or lowest evaluated quote/bid price from a responsive or responsible NBE, provided that the NBE's bid price does not surpass the lowest bid price or lowest evaluated bid price from a responsible and responsible non NBE or EBE business by more than three (3) percent. This requirement is waived if the contract is partially or completely funded from a source other than funds belonging to the City of Evanston, such as federal, state, or other grants, and (ii) the other funding source mandates terms that are inconsistent with or supersede this Section (E)(5).

a. An NBE shall perform a commercially useful function.

i. To determine whether an NBE is performing a commercially useful function, the City will evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the NBE credit claimed for its performance of the work and other relevant factors.

ii. An NBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of NBE participation. In determining whether an NBE is such an extra participant, the City will examine similar transactions, particularly those in which NBEs do not participate.

iii. If an NBE does not perform or exercise responsibility for at least thirty (30) percent of the total cost of its contract with its own work force, or the NBE subcontracts a greater portion of the work of a contract than would be expected on the basis of normal industry practice for the type of work involved, then it is not performing a commercially useful function.

iv. When an NBE is presumed not to be performing a commercially useful function as provided in Subsection (B)1c of this Section, the EBE may present evidence to rebut this presumption. The City may determine that the firm is performing a commercially useful function given the type of work involved and normal industry practices.

b. In determining whether a business has been located in Evanston or within five (5) miles of Evanston City limits for one (1) year, the MWEBE Committee will consider the following:

i. Whether the vendor pays property and/or sales taxes in Evanston, or, in the case of a NBE, in a community that is within five (5) miles of City limits;
~~and~~

- ii. Whether the business entity's address or the address given on the federal and/or state income tax return is within Evanston or, in the case of a NBE, in a community that is within five (5) miles of City limits; and
 - iii. The date of issuance of an Evanston business license or, in the case of a NBE, the date of issuance of a business license by a community located within five (5) miles of City limits.
 - iv. The City may waive the one-year requirement if the entity provides evidence of a substantial commitment to Evanston.
- c. Businesses that maintain a distribution warehouse or which manufacture in Evanston will receive EBE credit of sixty (60) percent and one hundred (100) percent, respectively. Those that do not maintain a distribution warehouse or manufacturing operation but have an office in Evanston will be considered a broker and receive a five (5) percent credit.
- d. Eligibility as an NBE will be periodically reviewed and may be revoked at any time if the entity no longer meets the above requirements.

6. *Certifications Required at Time of Bid Submittal.* All bidders, including any subcontractors included in the bid, as applicable, shall be compliant and shall submit certification of compliance with the following at the time of the bid submittal:

- a. The Prevailing Wage Act, 820 ILCS 130/1 *et seq.*
 - i. Compliance with the Prevailing Wage Act is required for the previous five (5) years and certification that the contractor has not been found in violation of the Prevailing Wage Act by the Illinois Department of Labor; and
 - ii. A contractor who has been found by the Illinois Department of Labor to be in violation of the Prevailing Wage Act twice in a five-year period shall be barred from bidding for a Public Works contract for four (4) years from the date of the most recent finding from the Illinois Department of Labor.
- b. The Substance Abuse Prevention on Public Works Project Act, 820 ILCS 265/1 *et seq.*
 - i. Compliance with the Substance Abuse Prevention on Public Works Act must include a copy of its written program for the prevention of substance abuse pursuant to the Act.

c. The Workers' Compensation Act, 820 ILCS 305/1 et seq.;

i. A copy of the applicable workers' compensation policy must be submitted to the City along with documentation of the Illinois Department of Labor registration. The bidder shall additionally certify that all employees are properly classified under the workers' compensation policy.

d. The Unemployment Insurance Act, 820 ILCS 405/100, et seq.;

i. A copy of the applicable Illinois Department of Employment Security current registration.

e. A copy of the Illinois Secretary of State's Department of Business Services online records evidencing that the bidder has a current corporate annual report on file. If the bidder is an individual, sole proprietor, or partnership, this subsection shall not apply;

f. A copy of the current registration with the Illinois Department of Revenue, if the bidder has employees;

g. A disclosure of any Federal, State or local tax liens or tax delinquencies against the bidder or any officers of the bidder in the last five (5) years;

~~h. Reserved;~~

~~h.~~ h. Compliance with the Federal Davis-Bacon Act and Related Acts, if applicable;

~~j.~~ i. Compliance with the Employee Classification Act 820 ILCS 185/1, et seq.;

i. All contractors and subcontractors shall submit certified payrolls as specified in Illinois Public Act 94-0515.

~~k.~~ j. All applicable professional or trade licensure, including documentation of said licenses, certification that all licenses are current, and disclosure of any suspension or revocation of such license held by the company, or of any director, officer or manager of the company;

~~h.~~ k. Certification of compliance with 720 ILCS 5/33E-11 and that the bidder is not barred from contracting with any unit of State or local government as a result of a violation of 720 ILCS 5/33E-3, 4;

m. l. Certification that all individuals who perform work on behalf of the contractor are properly classified as either (i) an employee, or (ii) an independent contractor under all applicable state and federal laws and local ordinances; and

n. m. Disclosure of any determinations by a court, State or Federal agency of violations of any federal, state or local laws, including but not limited to OSHA, contracting or antitrust laws, tax or licensing laws, environmental laws or the Federal Davis-Bacon and Related Acts.

Any bidder who fails to adhere to this Subsection shall be deemed disqualified from the bid process. If a bidder or contractor has a material change to the information provided to the City of Evanston, the bidder or contractor must notify the City within fourteen (14) days of this material change in writing. Failure to self-report a material change may result in disqualification from the bid.

7. Subcontractors. A bidder shall submit documentation including the name and address of each subcontractor from whom the bidder has accepted a bid and/or intends to hire on any part of the project. Further, each such subcontractor shall be required to adhere to the requirements set forth herein as though it were bidding directly to the City of Evanston. Each contractor shall submit all subcontractor information and supporting documentation to the City of Evanston prior to the subcontractor commencing work on the project. It shall be the responsibility of the bidder to ensure its subcontractors comply with all of the requirements of this Code, including the timely and complete submittals of all required documentation and full compliance with all obligations set forth in this Section.

8. Certification for 12-Month Period. In anticipation of bidding on a project, a contractor may submit the certifications identified in the preceding section to the City's Purchasing Manager or their designee. The Purchasing Manager or their designee shall review the certifications for completeness. Upon review, if the certifications are complete, the Purchasing Manager or their designee shall advise the contractor of same via an email address designated by the contractor. If the certifications are incomplete, the contractor shall be also notified via email and given fourteen (14) days to complete the submission. Once the certifications are completed, the contractor shall be notified of a "Certification for 12-Month Period" and shall not be required to resubmit these certifications for a period of twelve (12) months following the notification. Any material changes to these certifications shall be reported in writing to the City's Purchasing Manager or designee. In the event that these documents are still required to be submitted by a State or Federal agency that is contributing funding to a project, this provision shall not apply.

9. Projects of Similar Size and Scope. In projects in the amount of twenty-five

thousand dollars (\$25,000.00) or greater, bidders shall identify and submit documentation with their bid of relevant experience on projects of similar size and scope in the past five (5) years and submit references for same. Projects of similar size and scope shall be as further defined and outlined in the request for proposal ("RFP"). The bidder shall also identify any civil judgments, mediation or arbitration awards against it for default, breach, or damages due to delay or work inadequately performed. Information submitted pursuant to this section shall be considered in determining responsible bidders for the project at issue.

10. *Statement of Past Performance.* Bidders shall submit with their bid a record of all work performed for public bodies completed in the prior three (3) years. Such statements shall include the name of the public body, the type of work performed, the original contract price, the final contract price, the names of all subcontractors used and if liquidated damages were assessed.

11. *Public Records.* All information submitted by a successful bidder pursuant to this Section ~~are~~ is subject to review pursuant to the Illinois Freedom of Information Act (5 ILCS 140/1 *et seq.*).

INSERT (F) Contractor Debarment, Suspension, and Prohibited Contracts

SECTION 2: All ordinances or parts of ordinances in conflict herewith are hereby repealed.

SECTION 3: If any provision of this Ordinance or application thereof to any person or circumstance is held unconstitutional or otherwise invalid, such invalidity shall not affect other provisions or applications of this Ordinance that can be given effect without the invalid application or provision, and each invalid application of this Ordinance is severable.

SECTION 4: This Ordinance shall be in full force and effect beginning upon passage.

SECTION 5: The findings and recitals contained herein are declared to be prima facie evidence of the law of the City and shall be received in evidence as provided by the Illinois Compiled Statutes and the courts of the State of Illinois.

Introduced: _____ February 9, 2026

Approved:

Adopted: _____ February 9, 2026

_____ February 10, 2026


boxSIGN 4LR35Q59-46V7LZRJ

Daniel Biss, Mayor

Attest:

Approved as to form:


boxSIGN 1RXPY3KL-46V7LZRJ

Stephanie Mendoza, City Clerk


boxSIGN 1VWVZ88Z-46V7LZRJ

Alexandra B. Ruggie, Corporation Counsel

SECTION 1: Title 1, Chapter 17, "Contracts with the City," is hereby amended as follows:

(C) Local Employment Program.

(D) Minority, women, disadvantage, and Evanston business enterprise (M/W/D/EBE) goals.

(F) Contractor Debarment, Suspension, and Prohibited Contracts.

(C) Local Employment Program.

1. *Definitions.* For the purposes of this Subsection (C), the employment program, the following terms shall be defined as follows:

<i>CONTRACT.</i>	The written agreement to provide services established between the City and a contractor, including, but not limited to, a redevelopment agreement between the City and any contractor or party.
<i>CONTRACTOR.</i>	An individual, partnership, corporation, joint venture or other legal entity entering into a contract, or a subcontract of whatever tier, for a public works project.
<i>DESK REVIEW.</i>	A method of monitoring compliance with the local employment program in which the Business and Workforce Development
	Coordinator contacts a contractor or subcontractor to gather relevant information or request relevant documentation.
<i>EMERGENCY WORK.</i>	Work necessitated by an imminent threat to the property of the city or the health, safety, or welfare of its citizens.
<i>GENERAL CONTRACTOR.</i>	An entity that enters into a contract directly with the city. The general contractor may also be known as the prime contractor.
<i>LOCAL RESIDENT DATABASE.</i>	A database maintained by the City's Business and Workforce Development Coordinator containing the names of local residents who have expressed interest in employment on City public works projects.
<i>NEW HIRE.</i>	Any employee of a contractor who is not listed on the contractor's last quarterly tax statement and was hired prior to or during the commencement of work on a public works project contract subject to the requirements of the local employment program.
<i>ON SITE MONITORING.</i>	The Business and Workforce Development Coordinator's act of visiting the site of a public works project to ensure compliance with the requirements of the local employment program.
<i>PUBLIC WORKS PROJECT.</i>	Any construction, alteration, demolition, or repair work done under contract and paid for in whole or in part from City funds.
<i>RESIDENT.</i>	Any person whose domicile is in the City. The domicile is an individual's one and only true, fixed and permanent home and principal establishment. In order to qualify as a resident for purposes of the local employment program, an individual must have established domicile within the City at least thirty (30) days prior to commencing work on any public works project subject to the local employment program.
<i>SUBCONTRACT.</i>	A contract that exists between the general contractor and a subcontractor or between subcontractors of any tier.
<i>SUBCONTRACTOR.</i>	An entity that enters into a contract with the general contractor or another subcontractor.
<i>TIER.</i>	The level of relationship to the prime contractor of a subcontractor who enters into a contract under a prime contractor or another subcontractor to perform a portion of the work on a project.

2. *Work hours and new hire requirements.*

- a. Unless prohibited by federal, state, or local law, all contractors entering into contracts with the City for public works projects valued at two hundred fifty thousand dollars (\$250,000.00) shall ensure that:
 - 1) Fifteen percent (15%) of the total work hours are performed at the construction site by City of Evanston residents, as laborers and/or trade persons; and
 - 2) A minimum of one (1) Evanston resident is hired.

- b. The effectiveness of the local employment program regarding the minimum percentage of work hours and residents hired will be evaluated by city staff after two (2) years of implementation.
 - c. These requirements shall bind the contractor both with respect to persons working directly for the contractor and to subcontractors, regardless of tier or phase of the project, hired to perform any portion of the contracted work. The contractor shall ensure that subcontractors comply with the requirements of the local employment program. It shall be the responsibility and obligation of the contractor that all contracts are in overall compliance with this Subsection (C) and all the requirements listed herein.
 - d. Requirements of the local employment program are satisfied if the contractor already employs Evanston residents sufficient to meet fifteen percent (15%) of the project's total work hours. Some or all of these requirements may be waived if a waiver is obtained from the City pursuant to Subsection (C)5. of this Section.
3. *Contracts, bid documents, subcontracts.* Where appropriate and consistent with law, contracts and bid documents shall incorporate the local employment program by reference and shall provide that the failure of any contractor or subcontractor to comply with any of its requirements shall be deemed a material breach of the contract or subcontract entitling the City to all the remedies and damages available for material breach of a contract. All subcontracts shall expressly acknowledge the City's status as a third party beneficiary to the subcontract and further expressly acknowledge that the City, as a third party beneficiary, shall have the right to enforce the provisions of the local employment program. Contracts and bid documents shall require bidders, contractors and subcontractors to maintain records necessary for monitoring their compliance with the local employment program.
4. *Automatic review.* This Subsection (C) shall be reviewed to address any deficiencies on a bi-annual basis by the Minority, Women and Evanston Business Enterprise Development Committee.
5. *Waiver.*
 - a. The contractor may request that the Business and Workforce Development Coordinator waive all or a portion of the requirements imposed under the local employment program. Such requests must be in writing and must be received by the Business and Workforce Development Coordinator prior to the award of any public works project contract. In order to apply for a waiver, the contractor must submit:
 - 1) Documentation to the Business and Workforce Development Coordinator demonstrating that:
 - a) The contractor utilized the local resident database to attempt to satisfy the local employment program hiring requirement.

- b) The contractor notified residents of the employment opportunities available for the project. Such notification must have appeared in the employment section of a newspaper of local general circulation. Additionally, the Illinois department of employment security's office located in Evanston, Illinois, must have been notified of the employment opportunities. All notices must have stated that all qualified applicants would receive consideration without regard to race, color, religion, sex or national origin.
 - c) The contractor, for a contract utilizing union labor, contacted in writing Chicagoland labor unions to request a resident for employment on the project.
 - 2) Any additional documents requested by the Business and Workforce Development Coordinator in order to evaluate the waiver request.
- 6. *Business and Workforce Development Coordinator.*
 - a. The Business and Workforce Development Coordinator shall determine, based on the required documentation and conditions cited by the contractor that make compliance unfeasible, whether to grant the waiver prior to the award of the contract. Examples of such conditions include, but are not limited to:
 - 1) Intermittent service by one (1) trade throughout the life of the project.
 - 2) Nonavailability of resident(s) necessary to fulfill craft position(s) required for the project.
 - b. If circumstances arise subsequent to the issuance of the contract, the results of which the contractor believes will prevent satisfying the local employment program requirements, the contractor will immediately notify the Business and Workforce Development Coordinator by requesting in writing a waiver of the percentage that cannot be met. The Business and Workforce Development Coordinator or his or her designee shall meet with the applicant as necessary and issue a decision within five (5) business days, including a determination as to any retroactive liability for failure to achieve the goals for work undertaken prior to the application for such a waiver.
- 7. *Local resident selection.* It is the contractor's responsibility to meet the requirement of the local employment program. In order to satisfy the work hours and/or new hire requirements of the local employment program, contractors working under a collective bargaining agreement shall contact the appropriate local union hall to request a resident. If a resident is not available for dispatch by that union hall, the contractor shall contact the Business and Workforce Development Coordinator or his or her designee to request an available Evanston resident. The Business and Workforce Development Coordinator or his or her designee will thereafter provide the name of a resident matching the qualifications defined by the contractor to the local union

hall and that resident will be dispatched to the contractor within three (3) business days in accordance with the lawful hiring hall rules of the respective union. Failure of the Business and Workforce Development Coordinator to provide an individual shall not relieve the contractor from their responsibility to comply with the local employment program.

In order to satisfy the work hours and/or new hire requirement of the local employment program, contractors working in the absence of a collective bargaining agreement shall contact the Business and Workforce Development Coordinator or his or her designee to request an available Evanston resident from the local resident database. The Business and Workforce Development Coordinator or his or her designee will provide the name of a resident matching the qualifications identified by the contractor within three (3) business days.

8. *Reporting requirements.* The contractor shall submit reports as required by the City in order to comply with the local employment program. These reports may include weekly certified payroll records for all crafts within five (5) working days of the end of each payroll period. Additionally, the City may require a weekly or monthly summary of the information that would be obtainable from the certified payroll regarding local hire by craft. These reports, if required, must show the person-hours on a laborer and/or trade person basis and, in the case of certified payroll records, identify the address, new hires, and trade and status journeyman or apprentice of all employees on the project. All reports must have an original signature and be signed by an authorized officer of the company under penalty of perjury. The City will make a copy of all required forms available to contractors.

Nothing in the local employment program is intended to eliminate the requirement of a contractor to maintain certified payrolls or of the subcontractors to provide certified payrolls to the contractor, or for any contractor to provide certified payrolls to any party that requests them, as required under Illinois state law.

9. *Monitoring.* The Business and Workforce Development Coordinator or his or her designee will monitor compliance with the requirements of the local employment program by means including, but not limited to, desk reviews or on site monitoring. Audits of compliance may require the review of documents such as certified payrolls, canceled checks, or quarterly wage and withholding reports. Full scale investigations of noncompliance or violations will be on an as needed basis as determined by the Business and Workforce Development Coordinator.

A contractor that fails to provide requested documents or misrepresents material facts in such documents shall be deemed to be noncompliant with the local employment program.

10. *Post-award meeting.* At its discretion, the Business and Workforce Development Coordinator or his or her designee may require the contractor to attend a post-award meeting to familiarize the contractor with the local employment program requirements and to identify the individual by position

and name if available. If requested by the contractor post-award, or at any time during the project, the City shall hold such a meeting within ten (10) business days.

11. *Penalty.* If the contractor or subcontractor should fail to meet the total percentage of resident project hours for any reason, without having received a waiver as outlined in Subsection (C)5. above, the City may impose a fine up to one percent (1.0%) of the approved project price in total. Contractors or subcontractors that are out of compliance due to a resident termination or resignation, shall immediately notify the Business and Workforce Development Coordinator of this occurrence within two (2) business days. Subsequently, the contractor or subcontractor shall have five (5) additional business days to replace a terminated or resigned worker with another resident. If the contractor or subcontractor fails to make the replacement or to notify the Business and Workforce Development 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.

At the sole discretion of the City, a contractor or subcontractor 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 (1) year.

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 (1) 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 and Workforce Development Coordinator.

12. *Workforce reserve account.* The City shall establish a reserve account for the deposit of all penalty funds within the general fund. This account may be utilized for the support of the LEP and other workforce development programs as follows:
 - The MWEBE Committee shall receive a report on the balance of penalty funds as of the end of the fiscal year no later than March 31 after the close of that year.
 - The MWEBE Committee shall recommend utilization of these funds for placement in the next year's proposed budget in accordance with current LEP and workforce development program goals.
 - Both program goals and recommended expenditure of funds will be subject to approval by the City Council.

(D) *Minority, women, disadvantage, and Evanston business enterprise (M/W/D/EBE) goals.*

1. *Definitions.* For the purposes of this Subsection (D), Minority, Women, Disadvantage, and Evanston Business Enterprise (M/W/D/EBE) Goals, the following terms shall be defined as follows:

<i>DISADVANTAGE-OWNED BUSINESS ENTERPRISE or DBE.</i>	A firm must be at fifty-one percent (51%) owned by one (1) or more disadvantaged individual (socially and economically) or, in the case of a publicly-held corporation, fifty-one percent (51%) of the stock of which is owned by one (1) or more disadvantaged individual (socially and economically) whose management and daily business operations are controlled by one (1) or disadvantaged individual (socially and economically). The City Manager or his or her designee shall determine which DBE certifications shall be accepted by the City.
<i>EVANSTON-OWNED BUSINESS ENTERPRISE or EBE.</i>	An entity which is located in or has one (1) or more offices located in the City for a minimum of one (1) year and which performs a "commercially useful function." The business must be certified by the City in accordance with the provisions of Section 1-17-1(B).
<i>MINORITY-OWNED BUSINESS ENTERPRISE or MBE.</i>	A business which is at least fifty-one percent (51%) owned by one (1) or more members of one (1) or more minority groups, or, in the case of a publicly-held corporation, at least fifty-one percent (51%) of the stock of which is owned by one (1) or more members of one (1) or more minority groups, whose management and daily operations are controlled by one (1) or more members of one (1) or more minority groups. The City Manager or his or her designee shall determine which MBE certifications shall be accepted by the City.
<i>M/W/D/EBE GOALS.</i>	The City of Evanston establishes the goal of awarding not less than twenty-five percent (25%) of its contract awards to MBE, WBE, DBE and EBE businesses. The City of Evanston establishes the goal of awarding not less than three percent (3%) utilization of EBEs in its contract awards. The provisions of this Section shall be implemented by the City Manager or his or her designee. The provisions of this Section do not guarantee contract participation.
<i>WOMEN-OWNED BUSINESS ENTERPRISE or WBE.</i>	A business which is at least fifty-one percent (51%) owned by one (1) or more women, or, in the case of a publicly-held corporation, fifty-one percent (51%) of the stock of which is owned by one (1) or more women, whose management and daily business operations are controlled by one (1) or more women. The City Manager or his or her designee shall determine which WBE certifications shall be accepted by the City.

2. A minority-owned business enterprise ("MBE"), women-owned business enterprise ("WBE"), or disadvantage-business enterprise ("DBE") (collectively, "M/W/D/BE") must perform a "commercially useful function."
 - a. A M/W/D/BE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the M/W/D/BE

must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether an M/W/D/BE is performing a commercially useful function, the City will evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the M/W/D/BE credit claimed for its performance of the work and other relevant factors.

- b. A M/W/D/BE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of M/W/D/BE participation. In determining whether a M/W/D/BE is such an extra participant, the City will examine similar transactions, particularly those in which M/W/D/BE's do not participate.
 - c. If a M/W/D/BE does not perform or exercise responsibility for at least thirty percent (30%) of the total cost of its contract with its own work force, or the M/W/D/BE subcontracts a greater portion of the work of a contract than would be expected on the basis of normal industry practice for the type of work involved, then it is not performing a commercially useful function.
 - d. When an M/W/D/BE is presumed not to be performing a commercially useful function as provided in Subsection (D)(2)(c) of this Section, the M/W/D/BE may present evidence to rebut this presumption. The City may determine that the firm is performing a commercially useful function given the type of work involved and normal industry practices.
3. Businesses that maintain a distribution warehouse or manufacturing operation will receive M/W/D/BE credit of sixty percent (60%). Those that do not maintain a distribution warehouse or manufacturing operation will be considered a broker and receive a five (5) percent credit.
 4. Eligibility as a M/W/D/BE will be periodically reviewed and may be revoked at any time if the entity no longer meets the above requirements.

(E) (F) Contractor Debarment, Suspension, and Prohibited Contracts.

1. *Definitions.* For the purposes of this Subsection, the following definitions apply:

<i>CITY MANAGER.</i>	The City of Evanston City Manager or his/her designee.
<i>CONTRACTOR.</i>	A person, partnership, corporation, or other entity that has contracted with, or is seeking to contract with, the City to construct a public improvement, to provide goods to, or perform services for or on behalf of the City. A contractor includes a contractor, subcontractor, vendor, or any person or entity who or which owns an interest of ten percent (10%) or more in a contractor, subcontractor, or vendor.
<i>DEBARMENT.</i>	An action taken by the City which results in a contractor being prohibited from bidding or proposing on, being awarded or performing work on a contract with the City. A contractor who has been determined by the City to be subject to such a prohibition is debarred.

2. *Effect of Debarment or Suspension.* A debarred or suspended contractor is prohibited from bidding or proposing or being awarded or performing work on a contract with the City during the period of debarment or suspension.
3. *Debarment or Suspension.* The City Manager is authorized to debar or suspend a contractor for just cause. The period of debarment or suspension will be determined by the City Manager in consultation with the Corporation Counsel, on a case by case basis. Debarment or suspension may be lifted for good cause shown. Reasons for debarment or suspension include, but are not limited to, the following:
- a. Commission of fraud or a criminal offense as an incident to obtaining or attempting to obtain a public or private contract or subcontract or in the performance of such a contract or subcontract;
 - b. Conviction or indictment under a State or Federal statute of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or any other offense indicating a lack of business integrity or business honesty which affects responsibility as a vendor or contractor;
 - c. Conviction or indictment under a State or Federal antitrust statute;
 - d. A finding by a State or Federal agency with statutory authority to adjudicate civil rights violations, or by a judge or jury in a State or Federal

- court of competent jurisdiction, that the vendor or contractor has violated State or Federal civil rights statutes in its hiring or business practices;
- e. Failure or default without good cause to perform in accordance with the terms of any contract and the associated supporting documents or unsatisfactory performance of any contract and the associated supporting documents with the City;
 - f. Disqualification or rejection of a bid by the vendor on three (3) or more occasions within a three (3) year period;
 - g. Commission of an act or omission indicating a lack of business integrity or business honesty;
 - h. Debarment, disqualification or suspension by another government entity for any reason; or
 - i. Any Federal or State funding that, by law, rule, or regulation, precludes the City from paying a contractor from those funding.
4. *Procedure.* Before a contractor is debarred or suspended, written notice of debarment or suspension must be provided to that contractor. Such notice must apprise the contractor of the reasons for the debarment or suspension and must inform the contractor of the right to be heard before the City Manager. The City Manager must grant a reasonable opportunity for the debarred or suspended contractor to be heard on the issue of said debarment or suspension, if the contractor submits a request in writing within seven (7) calendar days of the mailing of the written notice. The City Manager will make a final determination after consulting with Corporation Counsel.
5. *Assignment of Contracts.* No contract will be assigned or sublet by the successful bidder without the consent of the City Manager.
6. *Prohibited Bidders and Contractors.*
- a. Unless otherwise provided, no contractor will bid or enter into a contract or subcontract under this Subsection if the business or any officer, director, partner, or other managerial agent of the business 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 for a period of five (5) years from the date of conviction.
 - b. Every bid submitted to and contract executed by the City and every subcontractor will contain a certification by the bidder, contractor, or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the City Manager will declare the related contract void if any of the certificates completed pursuant to this Subsection (b) are false.
7. *Debt Delinquency.*

- a. No person will submit a bid for or enter into a contract or subcontract under this Section if that person knows or should know that they or any affiliate is delinquent in the payment of any debt to the City, unless the person or affiliate has entered into a deferred payment plan to pay off the debt.
 - b. Every bid submitted to and contract executed by the City and every subcontract will contain a certification by the bidder, contractor, or subcontractor, respectively, that the contractor or the subcontractor and its affiliate is not barred from being awarded a contract or subcontract under this Section and acknowledges that the City Manager may declare the related contract void if any of the certifications completed pursuant to this Subsection (b) are false.
8. *Voidable Contracts.*
- a. If any contract or amendment is entered into or purchase or expenditure of funds is made at any time in violation of this Subsection or any other law, the contract or amendment may be declared void by the City Manager or may be ratified and affirmed, provided the City Manager determines that ratification is in the best interests of the City. If the contract is ratified and affirmed, it will be without prejudice to the City's rights to any appropriate damages.
 - b. If, during the term of a contract, the City Manager determines that the contractor is delinquent in the payment of debt as set forth in Subsection 1-17-1(E)(7), the City Manager, or his/her designee, may declare the contract void if he/she determines that voiding the contract is in the best interests of the City.
 - c. If, during the term of a contract, the City Manager determines that the contractor is in violation of Subsection 1-17-1(E)(6), the City Manager will declare the contract void.
 - d. If, during the term of a contract, the contracting agency learns from an annual certification or otherwise determines that the contractor no longer qualifies to enter into City contracts under this Section, the City Manager may declare the contract void if he/she determines that voiding the contract is in the best interests of the City.

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Trade Title	Rg	Type	C	Base	Foreman	Overtime					Pension	Vac	Trng	Other Ins	Add OT 1.5x owed	Add OT 2.0x owed
						M-F	Sa	Su	Hol	H/W						
ASBESTOS ABT-GEN	All	ALL		51.40	52.40	1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
ASBESTOS ABT-MEC	All	BLD		42.02	45.38	1.5	1.5	2.0	2.0	16.44	16.64	0.00	0.92		3.37	6.73
BOILERMAKER	All	BLD		58.91	64.21	2.0	2.0	2.0	2.0	7.07	27.02	0.00	3.69	2.31	0.00	39.30
BRICK MASON	All	BLD		53.06	58.37	1.5	1.5	2.0	2.0	12.95	26.26	0.00	1.57	0.00	4.23	8.45
CARPENTER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
CEMENT MASON	All	ALL		53.10	55.10	2.0	1.5	2.0	2.0	18.43	24.00	0.00	1.25		2.50	5.00
CERAMIC TILE FINISHER	All	BLD		49.09	49.09	1.5	1.5	2.0	2.0	13.25	17.61	0.00	1.37	0.00	5.57	11.14
CERAMIC TILE LAYER	All	BLD		57.04	62.04	1.5	1.5	2.0	2.0	13.25	21.60	0.00	1.50	0.00	7.63	15.26
COMMUNICATION ELECTRICIAN	All	BLD		51.14	56.25	1.5	1.5	2.0	2.0	16.70	14.48	1.40	1.27	0.10	0.00	0.00
CONCRETE SPECIALIST	All	BLD		51.81	58.21	1.5	1.5	2.0	2.0	12.95	27.56	0.00	1.57	0.00	4.88	9.75
CONCRETE SPECIALIST WELDER	All	BLD		54.40	58.21	1.5	1.5	2.0	2.0	12.95	27.56	0.00	1.57	0.00	4.88	9.75
ELECTRIC PWR EQMT OP	All	ALL		64.58	70.87	1.5	1.5	2.0	2.0	12.99	22.45	0.00	3.66	0.00	0.00	0.00
ELECTRIC PWR GRNDMAN	All	ALL		50.37	70.87	1.5	1.5	2.0	2.0	10.13	17.51	0.00	2.85	0.00	0.00	0.00
ELECTRIC PWR LINEMAN	All	ALL		64.58	70.87	1.5	1.5	2.0	2.0	12.99	22.45	0.00	3.66	0.00	0.00	0.00
ELECTRICIAN	All	ALL		57.75	63.53	1.5	1.5	2.0	2.0	19.34	21.13	1.60	1.87	0.30	0.00	0.00
ELEVATOR CONSTRUCTOR	All	BLD		70.68	79.52	2.0	2.0	2.0	2.0	16.28	21.36	5.65	0.80		0.00	0.00
FENCE ERECTOR	All	ALL		52.25	54.75	1.5	1.5	2.0	2.0	14.29	19.02	0.00	1.00	0.00	0.00	0.00
GLAZIER	All	BLD		53.55	55.05	1.5	2.0	2.0	2.0	16.04	26.64	0.00	2.30	0.00	0.00	0.00
HEAT/FROST INSULATOR	All	BLD		56.02	59.38	1.5	1.5	2.0	2.0	16.44	19.88	0.00	0.92		4.99	9.97
IRON WORKER	All	ALL		62.46	65.96	2.0	2.0	2.0	2.0	19.05	27.04	0.00	0.49	0.00	0.00	0.00
LABORER	All	ALL		51.40	52.15	1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
LATHER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
MACHINIST	All	BLD		60.39	64.39	1.5	1.5	2.0	2.0	11.43	9.95	1.85	1.47	0.00	0.00	0.00
MARBLE FINISHER	All	ALL		40.21	54.60	1.5	1.5	2.0	2.0	12.95	23.81	0.00	0.98	0.00	3.00	6.00
MARBLE SETTER	All	BLD		52.00	57.20	1.5	1.5	2.0	2.0	12.95	25.57	0.00	1.25	0.00	3.88	7.76
MATERIAL TESTER I	All	ALL		41.40		1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00

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MATERIALS TESTER II	All	ALL		46.40		1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
MILLWRIGHT	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
OPERATING ENGINEER	All	BLD	1	64.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	2	63.50	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	3	60.95	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	4	59.20	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	5	68.55	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	6	65.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	7	67.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	1	73.95	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	2	72.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	3	67.95	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	4	63.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	5	75.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	6	63.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	1	63.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	2	62.45	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	3	60.40	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	4	59.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	5	57.80	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	6	66.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	7	64.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
ORNAMENTAL IRON WORKER	All	ALL		59.26	62.76	2.0	2.0	2.0	2.0	14.86	27.70	0.00	2.25	0.00	0.00	0.00
PAINTER	All	ALL		54.30	61.09	1.5	1.5	1.5	2.0	16.26	17.59	0.00	1.86	0.00	0.00	0.00
PAINTER - SIGNS	All	BLD		48.16	54.11	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		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
PIPEFITTER	All	BLD		58.50	61.50	1.5	1.5	2.0	2.0	15.15	22.85	0.00	3.12	0.00	0.00	0.00
PLASTERER	All	BLD		51.10	54.17	1.5	1.5	2.0	2.0	18.43	22.10	0.00	1.25	0.00	0.00	0.00
PLUMBER	All	BLD		60.50	64.15	1.5	1.5	2.0	2.0	19.10	17.94	0.00	1.98		0.00	0.00

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ROOFER	All	BLD		52.00	57.00	1.5	1.5	2.0	2.0	12.80	18.19	0.00	1.14	0.00	0.00	0.00
SHEETMETAL WORKER	All	BLD		54.58	58.95	1.5	1.5	2.0	2.0	15.88	28.92	0.00	1.20	0.00	0.00	0.00
SIGN HANGER	All	BLD		37.62	40.63	1.5	1.5	2.0	2.0	7.85	4.90	0.00	0.00	0.00	0.00	0.00
SPRINKLER FITTER	All	BLD		63.20	65.95	1.5	1.5	2.0	2.0	15.45	19.95	0.00	1.15	0.00	0.00	0.00
STEEL ERECTOR	All	ALL		62.46	65.96	2.0	2.0	2.0	2.0	19.05	27.04	0.00	0.49	0.00	0.00	0.00
STONE MASON	All	BLD		53.06	58.37	1.5	1.5	2.0	2.0	12.95	26.26	0.00	1.57	0.00	4.23	8.45
SURVEY WORKER	All	BLD		58.45	59.45	1.5	1.5	2.0	2.0	19.10	14.40	0.00	1.59		0.00	0.00
SURVEY WORKER	All	HWY		58.45	59.45	1.5	1.5	2.0	2.0	19.10	14.40	0.00	1.59		0.00	0.00
TERRAZZO FINISHER	All	BLD		51.44	51.44	1.5	1.5	2.0	2.0	13.25	18.87	0.00	1.41	0.00	4.45	8.89
TERRAZZO MECHANIC	All	BLD		55.35	58.85	1.5	1.5	2.0	2.0	13.25	20.26	0.00	1.46	0.00	4.70	9.39
TRAFFIC SAFETY WORKER I	All	HWY		43.40	45.40	1.5	1.5	2.0	2.0	10.08	10.08	0.00	1.05	0.00	0.00	0.00
TRAFFIC SAFETY WORKER II	ALL	HWY		44.40	46.40	1.5	1.5	2.0	2.0	10.08	10.08	0.00	1.05	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	1	45.55	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	2	45.80	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	3	46.00	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	4	46.20	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	1	44.83	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	2	44.98	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	3	45.18	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	4	45.38	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TUCKPOINTER	All	BLD		52.53	53.53	1.5	1.5	2.0	2.0	11.05	23.16	0.00	1.46	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

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H/W Health/Welfare benefit

Vac Vacation

Trng Training

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

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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, 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-

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Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

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

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

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

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

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

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 75

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Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

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

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

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

Class 6. Field Mechanics and Field Welders

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

OPERATING ENGINEER - FLOATING

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

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

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

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

Class 5. Friction or Lattice Boom Cranes.

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Class 6. ROV Pilot, ROV Tender

SURVEY WORKER

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 Turnpulls or Turntrailers 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

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Turntrailers or turnpulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

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

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".

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City of Evanston has partnered with **Euna OpenBids** – an online network connecting local governments with suppliers across the nation. Euna OpenBids is open and accessible to all businesses. Euna OpenBids gives you instant access to RFPs, bids, quotes, and other opportunities with City of Evanston.

By registering for a complimentary account with Euna OpenBids, you get Instant Access to bids for City of Evanston. Your free Euna OpenBids account provides:

- **Instant** access to all bid and quotes for City of Evanston
- **Automatic** notifications from City of Evanston right to your inbox
- The ability to **quickly view** the contractual terms and scope of work
- All the **forms and documents** you need in one place.

It's Easy! Get started in 4 easy steps.

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This will be your username for logging in to OpenBids

Create your OpenBids account

Sign In

By creating an account, you agree to OpenBids Terms of Use and Privacy Policy.

STEP 1

CHOOSE YOUR FREE AGENCY

Type "City of Evanston" in the Search Box, select the agency, then click "Next" .

1 of 4: Choose your free agency

A great way to find out about new opportunities on OpenBids is to subscribe to a government agency. To get started, please choose your first (free!) agency. You'll have a chance to sign up for more in just a moment.

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York County Purchasing

STEP 2

CHOOSE COMMODITY CODES

Get notifications – ones that are relevant to your business by describing what you offer via “commodity codes”

2 of 4: Refine Bid Notifications

What are commodity codes?

OpenBids commodity codes are how we categorize goods and services for government procurement. When you choose commodity codes, OpenBids uses them to match what your company provides to what governments in your subscription need, helping you find the best bids and quotes to bid on.

Take control of your bid notification experience and maximize your chances of finding opportunities that are tailored to your needs. Add your key tags here and let us assist you in uncovering the most relevant and valuable bid opportunities in your industry.

Example: Infrastructure, Automobiles, Dairy, Agriculture

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STEP 3

CHOOSE MORE NOTIFICATIONS

Click “Continue without Adding Subscriptions” to proceed to City of Evanston specifically. Or, if you’d like to get notifications when other governments near you post a relevant solicitation, you can select any combination of our county, state or national plans on this page.

3 of 4: Choose Subscriptions

Now that you've chosen **Rock County** as your free agency, add more counties to grow your network of potential clients.

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Please select a state to begin

State

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Choose your counties in Wisconsin

There are currently 51 Wisconsin counties with agencies publishing bids on OpenBids. Please choose which counties you'd like to subscribed to. You may also subscribe to all counties in Wisconsin and save!

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Rock County Subscription

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STEP 4

COMPLETE YOUR PROFILE

Enter your contact and company information and Click “Finish Registration”. You’ll receive an email to set up your password.

You’re done!

4 of 4: Complete your profile

We've saved your selections. Now that you've set up your subscriptions on OpenBids, tell us a little bit more about yourself.

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Last Name

Phone Number

Your company Information

Company Phone Number