

City of San Diego

CONTRACTOR'S NAME: _____ JMJ CONSTRUCTION _____
ADDRESS: 30724 Benton Rd C302-593, Winchester, CA 92596 _____
TELEPHONE NO.:(562) 318-4733 _____ FAX NO.:(951) 848-0876 _____
CITY CONTACT: Juan E. Espindola - Contract Specialist, Email: JEEspindola@sandiego.gov _____
Phone No. (619) 533-4491, Fax No. (619) 533-3633 _____
M.Ramirez/R.W.Bustamante/Lad _____

BIDDING DOCUMENTS



FOR

ROLLING HILLS NEIGHBORHOOD PARK ADA UPGRADE

BID NO.: _____ K-18-1740-DBB-3 _____
SAP NO. (WBS/IO/CC): _____ S-15021 _____
CLIENT DEPARTMENT: _____ 1714 _____
COUNCIL DISTRICT: _____ 5 _____
PROJECT TYPE: _____ GB _____

THIS CONTRACT WILL BE SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM
- PREVAILING WAGE RATES: STATE FEDERAL
- APPRENTICESHIP

BID DUE DATE:

2:00 PM

MARCH 6, 2018

CITY OF SAN DIEGO

PUBLIC WORKS CONTRACTS

1010 SECOND AVENUE, 14th FLOOR, MS 614C

SAN DIEGO, CA 92101

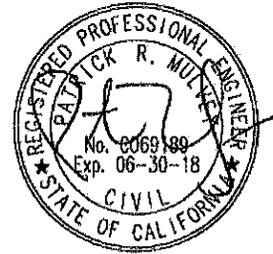
ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer:

Patrick Mulvey, P.E.
1) Registered Engineer

January 26, 2018
Date

Seal:



[Signature]
2) For City Engineer

Jan 29, 2018
Date

Seal:



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NOTICE INVITING BIDS

1. **SUMMARY OF WORK:** This is the City of San Diego's (City) solicitation process to acquire Construction services for **Rolling Hills Neighborhood Park ADA Upgrade**. For additional information refer to Attachment A.
2. **FULL LIMITED COMPETITION:** This contract may only be bid by the Contractors on the City's approved Prequalified Contractor's List **and** SLBE-ELBE Construction Limited Competition Contractors List in accordance with the designation stated on the cover page. For information regarding the SLBE-ELBE Construction Program and registration visit the City's web site: <http://www.sandiego.gov>.
3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$1,635,000.00**.
4. **BID DUE DATE AND TIME ARE: MARCH 6, 2018, at 2:00 PM.**
5. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.
6. **LICENSE REQUIREMENT:** The City has determined that the following licensing classification is required for this contract: **A**.
7. **SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract.
 - 7.1. The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

1. SLBE participation	4.0%
2. ELBE participation	5.6%
3. Total mandatory participation	9.6%
 - 7.2. The Bid may be declared non-responsive if the Bidder fails to meet the following requirements:
 - 7.2.1. Include SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**
 - 7.2.2. Submit Good Faith Effort documentation, saved in searchable Portable Document Format (PDF) and stored on Compact Disc (CD) or Digital Video Disc (DVD), demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within 3 Working Days of the Bid opening if the overall mandatory participation percentage is not met.

8. PRE-BID MEETING:

- 8.1.** Prospective Bidders are **encouraged** to attend the Pre-Bid Meeting. The purpose of the meeting is to discuss the scope of the Project, submittal requirements, the pre-qualification process and any Equal Opportunity Contracting Program requirements and reporting procedures. To request a sign language or oral interpreter for this visit, call the Public Works Contracts at (619) 533-3450 at least 5 Working Days prior to the meeting to ensure availability. The Pre-Bid meeting is scheduled as follows:

Date: February 14, 2018

Time: At 10:00 AM

Location: 1010 Second Avenue, 14th Floor, San Diego, CA 92101 (Large Conference Room)

Attendance at the Pre-Bid Meeting will be evidenced by the Bidder's representative's signature on the attendance roster. It is the responsibility of the Bidder's representative to complete and sign the attendance roster.

9. AWARD PROCESS:

- 9.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions of Award as stated within these documents and within the Notice of Intent to Award.
- 9.2.** Upon acceptance of bids and determination of the apparent low bidder, the City will prepare the contract documents for execution within approximately 21 days of the date of the bid opening. The City will then award the contract upon receipt of properly signed Contract, bonds, and insurance documents.
- 9.3.** This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form by the City Attorney's Office.
- 9.4.** The low Bid will be determined by Base Bid plus all Alternates.
- 9.5.** Once the low bid has been determined, the City may, at its sole discretion, award the contract for the Base bid plus one or more alternates.

10. SUBMISSION OF QUESTIONS:

- 10.1.** The Director (or Designee) of the Public Works Department is responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. Any questions related to this solicitation shall be submitted to:

Public Works Contracts
1010 Second Avenue, 14th Floor
San Diego, California, 92101

Attention: Juan E. Espindola - Contract Specialist
OR:

JEEspindola@sandiego.gov

- 10.2.** Questions received less than 14 days prior to the date for opening of Bids may not be considered.
- 10.3.** Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.
- 10.4.** Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Bidder's responsibility to be informed of any addenda that have been issued and to include all such information in its Bid.

11. ADDITIVE/DEDUCTIVE ALTERNATES:

- 11.1.** The additive/deductive alternates have been established to allow the City to compare the cost of specific portions of the Work with the Project's budget and enable the City to make a decision whether to incorporate these portions prior to award. The award will be established as described in the Bid. The City reserves the right to award the Contract for the Base Bid only or for the Base Bid plus one or more Alternates.
- 11.2.** For water pipeline projects, the Plans typically show all cut and plug and connection work to be performed by City Forces. However, Bidders shall refer to Bidding Documents to see if all or part of this work will be performed by the Contractor.

INSTRUCTIONS TO BIDDERS

1. PREQUALIFICATION OF CONTRACTORS:

- 1.1. Contractors submitting a Bid must be pre-qualified for the total amount proposed, including all alternate items, prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award. Complete information and links to the on-line prequalification application are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification.shtml>

- 1.2. The completed application must be submitted online no later than 2 weeks prior to the bid opening.
- 1.3. Due to the City's responsibility to protect the confidentiality of the contractors' information, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on [PlanetBids™](#).

2. ELECTRONIC FORMAT RECEIPT AND OPENING OF BIDS: Bids will be received in electronic format (eBids) EXCLUSIVELY at the City of San Diego's electronic bidding (eBidding) site, at: <http://www.sandiego.gov/cip/bidopps/index.shtml> and are due by the date, and time shown on the cover of this solicitation.

- 2.1. **BIDDERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit and electronic bid.
- 2.2. The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.
- 2.3. The City's electronic bidding system is responsible for bid tabulations. Upon the bidder's or proposer's entry of their bid, the system will ensure that all required fields are entered. **The system will not accept a bid for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.

- 2.4. BIDS REMAIN SEALED UNTIL BID DEADLINE.** eBids are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Bids submitted prior to the "Bid Due Date and Time" are not available for review by anyone other than the submitter which has until the "Bid Due Date and Time" to change, rescind or retrieve its proposal should it desire to do so.
- 2.5. BIDS MUST BE SUBMITTED BY BID DUE DATE AND TIME.** Once the bid deadline is reached, no further submissions are accepted into the system. Once the Bid Due Date and Time has lapsed, bidders, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, EOCB compliance and other issues. The City may require any Bidder to furnish statement of experience, financial responsibility, technical ability, equipment, and references.
- 2.6. RECAPITULATION OF THE WORK.** Bids shall not contain any recapitulation of the Work. Conditional Bids may be rejected as being non-responsive. Alternative proposals will not be considered unless called for.
- 2.7. BIDS MAY BE WITHDRAWN** by the Bidder only up to the bid due date and time.
- 2.7.1. Important Note:** Submission of the electronic bid into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure their bids are received on time by the City's eBidding system. The City of San Diego is not responsible for bids that do not arrive by the required date and time.
- 2.8. ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE:** To request a copy of this solicitation in an alternative format, contact the Public Works Contract Specialist listed on the cover of this solicitation at least five (5) working days prior to the Bid/Proposal due date to ensure availability.

3. ELECTRONIC BID SUBMISSIONS CARRY FULL FORCE AND EFFECT

- 3.1.** The bidder, by submitting its electronic bid, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.
- 3.2.** By submitting an electronic bid, the bidder certifies that the bidder has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its bid proposal, the bidder acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.

- 3.3.** The Bidder, by submitting its electronic bid, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this bid are true and correct.
- 3.4.** The Bidder agrees to the construction of the project as described in Attachment “A – Scope of Work” for the City of San Diego, in accordance with the requirements set forth herein for the electronically submitted prices. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent.
- 4. BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.
- 5. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**
- 5.1.** **Prior** to the Award of the Contract or Task Order, you and your Subcontractors and Suppliers must register with the City’s web-based vendor registration and bid management system. For additional information go to:

<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg.shtml>.
- 5.2.** The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.
- 6. JOINT VENTURE CONTRACTORS:** Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receiving the Contract forms. See 7-6, “The Contractors Representative” in The GREENBOOK and 7-6.1 in The WHITEBOOK.
- 7. PREVAILING WAGE RATES WILL APPLY:** Refer to Attachment D.
- 8. SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract. Refer to Attachment E.

9. INSURANCE REQUIREMENTS:

- 9.1. All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City’s Notice of Intent to Award letter.
- 9.2. Refer to sections 7-3, “LIABILITY INSURANCE”, and 7-4, “WORKERS’ COMPENSATION INSURANCE” of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

10. REFERENCE STANDARDS: Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction (“The GREENBOOK”) http://www.greenbookspecs.org/	2015	PWPI070116-01
City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”)* https://www.sandiego.gov/publicworks/edocref/greenbook	2015	PWPI070116-02
City of San Diego Standard Drawings* https://www.sandiego.gov/publicworks/edocref/standarddraw	2016	PWPI070116-03
Citywide Computer Aided Design and Drafting (CADD) Standards https://www.sandiego.gov/publicworks/edocref/drawings	2016	PWPI092816-04
California Department of Transportation (CALTRANS) Standard Specifications – http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2015	PWPI092816-05
CALTRANS Standard Plans http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2015	PWPI092816-06
California Manual on Uniform Traffic Control Devices Revision 1 (CA MUTCD Rev 1) - http://www.dot.ca.gov/trafficops/camutcd/	2014	PWPI092816-07
NOTE: *Available online under Engineering Documents and References at: http://www.sandiego.gov/publicworks/edocref/index.shtml		

11. CITY’S RESPONSES AND ADDENDA: The City, at its discretion, may respond to any or all questions submitted in writing via the City’s eBidding web site in the **form of an addendum**. No other responses to questions, oral or written shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addenda are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda at the time of bid submission.

- 12. CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.
- 13. CONTRACT PRICING:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth herein. The Bidder agrees to perform construction services for the City of San Diego in accordance with these contract documents for the prices listed below. The Bidder further agrees to guarantee the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee may be extended, by mutual consent of the parties, by the number of days required for the City to obtain all items necessary to fulfill all contractual conditions.
- 14. SUBCONTRACTOR INFORMATION:**
- 14.1. LISTING OF SUBCONTRACTORS.** In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the **NAME** and **ADDRESS** of each Subcontractor who will perform work, labor, render services or who specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also state within the description, whether the subcontractor is a **CONSTRUCTOR, CONSULTANT** or **SUPPLIER**. The Bidder shall state the **DIR REGISTRATION NUMBER** for all subcontractors and shall further state within the description, the **PORTION** of the work which will be performed by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement may result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3, "Subcontracts", which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which Bidders are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.
- 14.2. LISTING OF SUPPLIERS.** Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the **NAME, LOCATION (CITY), DIR REGISTRATION NUMBER** and the **DOLLAR VALUE** of each supplier. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case,

100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.

- 14.3. LISTING OF SUBCONTRACTORS OR SUPPLIERS FOR ALTERNATES.** For subcontractors or suppliers to be used on additive or deductive alternate items, in addition to the above requirements, bidder shall further note "ALTERNATE" and alternate item number within the description.
- 15. SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-1.6, "Trade Names or Equals" in The WHITEBOOK and as amended in the SSP.
- 16. AWARD:**
- 16.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
- 16.2.** Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.
- 16.3.** This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form the City Attorney's Office.
- 17. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the bid **non-responsive** and ineligible for award.
- 18. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracts.
- 19. ONLY ONE BID PER CONTRACTOR SHALL BE ACCEPTED:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.

20. SAN DIEGO BUSINESS TAX CERTIFICATE: The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, First floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms within these documents.

21. BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY) FOR DESIGN-BID-BUILD CONTRACTS:

21.1. For bids \$250,000 and above, bidders shall submit Bid Security at bid time. Bid Security shall be in one of the following forms: a cashier's check, or a properly certified check upon some responsible bank; or an approved corporate surety bond payable to the City of San Diego for an amount of not less than 10% of the total bid amount.

21.2. This check or bond, and the monies represented thereby, will be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into the contract and furnish the required final performance and payment bonds.

21.3. The Bidder agrees that in the event of the Bidder's failure to execute this contract and provide the required final bonds, the money represented by the cashier's or certified check will remain the property of the City; and the Surety agrees that it will pay to the City the damages, not exceeding the sum of 10% of the amount of the Bid, that the City may suffer as a result of such failure.

21.4. At the time of bid submission, bidders must upload and submit an electronic PDF copy of the aforementioned bid security. Whether in the form of a cashier's check, a properly certified check or an approved corporate surety bond payable to the City of San Diego, the bid security must be uploaded to the City's eBidding system. Within twenty-four (24) hours after the bid due date and time, the first five (5) apparent low bidders must provide the City with the original bid security.

21.5. Failure to submit the electronic version of the bid security at the time of bid submission AND failure to provide the original within twenty-four (24) hours may cause the bid to be rejected and deemed **non-responsive**.

22. AWARD OF CONTRACT OR REJECTION OF BIDS:

22.1. This contract may be awarded to the lowest responsible and reliable Bidder.

22.2. Bidders shall complete ALL eBid forms as required by this solicitation. Incomplete eBids will not be accepted.

- 22.3.** The City reserves the right to reject any or all Bids, to waive any informality or technicality in Bids received, and to waive any requirements of these specifications as to bidding procedure.
- 22.4.** Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City within 3 Working Days of the bid opening, written notice from the Bidder which shows proof of honest, credible, clerical error of a material nature, free from fraud or fraudulent intent; and of evidence that reasonable care was observed in the preparation of the Bid.
- 22.5.** A bidder who is not selected for contract award may protest the award of a contract to another bidder by submitting a written protest in accordance with the San Diego Municipal Code.
- 22.6.** The City of San Diego will not discriminate in the award of contracts with regard to race, religion creed, color, national origin, ancestry, physical handicap, marital status, sex or age.
- 22.7.** Each Bid package properly signed as required by these specifications shall constitute a firm offer which may be accepted by the City within the time specified herein.
- 22.8.** The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of the base bid and any proposed alternates or options as detailed herein.

23. BID RESULTS:

- 23.1.** The availability of the bids on the City's eBidding system shall constitute the public announcement of the apparent low bidder. In the event that the apparent low bidder is subsequently deemed non-responsive or non-responsible, a notation of such will be made on the eBidding system. The new ranking and apparent low bidder will be adjusted accordingly.
- 23.2.** To obtain the bid results, view the results on the City's web site, or request the results by U.S. mail and provide a self-addressed, stamped envelope. If requesting by mail, be sure to reference the bid name and number. The bid tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

24. THE CONTRACT:

- 24.1.** The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 14 days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.
- 24.2.** If the Bidder takes longer than 14 days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be

made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.

- 24.3.** If the Bidder to whom the award is made fails to enter into the contract as herein provided, the award may be annulled and the Bidder's Guarantee of Good Faith will be subject to forfeiture. An award may be made to the next lowest responsible and reliable Bidder who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.
- 24.4.** Pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 14 Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.
- 24.5.** The award of the Contract is contingent upon the satisfactory completion of the above-mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee and approval as to form the City Attorney's Office. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.
- 25. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.
- 26. CITY STANDARD PROVISIONS:** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 26.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.

- 26.2. The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 26.3. The City of San Diego Municipal Code §22.3004 for Contractor Standards.
- 26.4. The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 26.5. Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 26.6. The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 26.7. The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

27. PRE-AWARD ACTIVITIES:

- 27.1. The contractor selected by the City to execute a contract for this Work shall submit the required documentation as specified in the herein and in the Notice of Award. Failure to provide the information as specified may result in the Bid being rejected as **non-responsive**.
- 27.2. The decision that bid is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

JMJ Construction, a corporation, as principal, and NORTH AMERICAN SPECIALTY INSURANCE COMPANY, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of **One Million Five Hundred Thirty Seven Thousand Six Hundred Fifty Dollars and Zero Cents (\$1,537,650)** for the faithful performance of the annexed contract, and in the sum of **One Million Five Hundred Thirty Seven Thousand Six Hundred Fifty Dollars and Zero Cents (\$1,537,650)** for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract with the City of San Diego, California, then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND (continued)

The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated APRIL 5, 2018

Approved as to Form

J M J CONSTRUCTION
Principal

By _____

JORDAN MOISA, PRESIDENT
Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

By [Signature]
Deputy City Attorney

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
Surety

By [Signature]
Attorney-in-fact, HELEN E. WHEALDON

Approved:

6 HUTTON CENTRE DRIVE, SUITE 850
Local Address of Surety

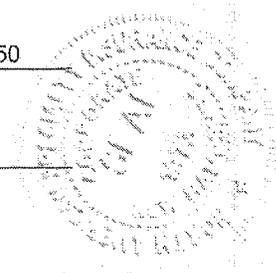
By [Signature]
Rosa Isela Pineda
Senior Contract Specialist
Public Works Department

SANTA ANA, CA 92707
Local Address (City, State) of Surety

714/550-4141
Local Telephone No. of Surety

Premium \$ 18,877.00
PREMIUM IS FOR CONTRACT TERM
AND IS SUBJECT TO ADJUSTMENT
BASED ON FINAL CONTRACT PRICE

Bond No. 2269273



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

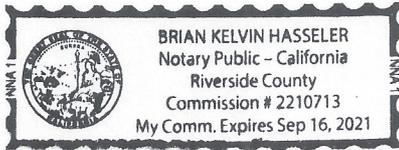
State of California

County of Riverside

On 4/9/18 before me, Brian Kelvin Hasseler, Notary Public

personally appeared Jordan Moiza

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Handwritten Signature]

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Performance Bond, Labor and Materialmen's Bond

Document Date: 4/9/18 Number of Pages: 18 pgs

Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name: Jordan Moiza

Corporate Officer - Title(s): President

Partner - Limited General

Individual Attorney in Fact

Trustee Guardian of Conservator

Other:

Signer is Representing:

Signer's Name:

Corporate Officer - Title(s):

Partner - Limited General

Individual Attorney in Fact

Trustee Guardian of Conservator

Other:

Signer is Representing:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

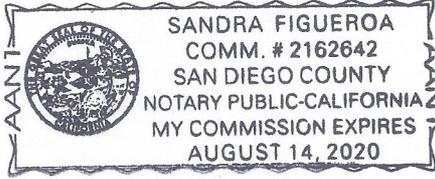
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of SAN DIEGO)
On 4/5/2018 before me, SANDRA FIGUEROA, NOTARY PUBLIC
Date Here Insert Name and Title of the Officer
personally appeared HELEN E. WHEALDON
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Handwritten Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document
Title or Type of Document: Document Date:
Number of Pages: Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)
Signer's Name: HELEN E. WHEALDON
Signer's Name:
[] Corporate Officer - Title(s):
[] Partner - [] Limited [] General
[] Individual [x] Attorney in Fact
[] Trustee [] Guardian or Conservator
[] Other:
Signer Is Representing:

SWISS RE CORPORATE SOLUTIONS

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Overland Park, Kansas, and Washington International Insurance Company, a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Overland Park, Kansas, each does hereby make, constitute and appoint:

JOHN G. MALONEY, HELEN MALONEY, MARK D. IATAROLA, AND SANDRA FIGUEROA

HELEN E. WHEALDON

JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

FIFTY MILLION (\$50,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on the 9th of May, 2012:

RESOLVED, that any two of the Presidents, any Managing Director, any Senior Vice President, any Vice President, any Assistant Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached.



By [Signature] Steven P. Anderson, Senior Vice President of Washington International Insurance Company & Senior Vice President of North American Specialty Insurance Company



By [Signature] Michael A. Ito, Senior Vice President of Washington International Insurance Company & Senior Vice President of North American Specialty Insurance Company

IN WITNESS WHEREOF, North American Specialty Insurance Company and Washington International Insurance Company have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 12 day of JANUARY, 2018.

North American Specialty Insurance Company
Washington International Insurance Company

State of Illinois
County of Cook ss:

On this 12 day of JANUARY, 2018, before me, a Notary Public personally appeared Steven P. Anderson, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and Michael A. Ito, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.

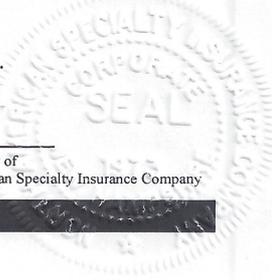


[Signature] M. Kenny, Notary Public

I, Jeffrey Goldberg, the duly elected Assistant Secretary of North American Specialty Insurance Company and Washington International Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company and Washington International Insurance Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 5TH day of APRIL, 2018.

[Signature] Jeffrey Goldberg, Vice President & Assistant Secretary of Washington International Insurance Company & North American Specialty Insurance Company



ATTACHMENTS

ATTACHMENT A
SCOPE OF WORK

SCOPE OF WORK

- SCOPE OF WORK:** This project provides for ADA and park upgrades within the park, including, but not limited to, accessible street parking, pedestrian curb ramps, path of travel improvements, children playground, storm water permanent BMP's, accessible safety surfacing, accessible drinking fountains, shade structure and other miscellaneous improvements to enhance ADA accessibility and provide a playground area. The design of these park upgrades will follow the community's concept plan. This project will also install the new playground equipment that the community will procure and deliver. This project also includes minor erosion control measures on the existing slope to the north of the playground. Due to increasing erosion on the slope which is causing maintenance issues and concerns of slope failure, the City has directed the Consultant to expand the scope of the erosion control measures to include the entire slope along the northern property line of the Park.

The Consultant has examined the site and believes a combination of drainage improvements, landscaping, and potentially a small retaining wall will significantly reduce the rate of erosion of the slope and alleviate the maintenance issues caused by soil build-up on the basketball court.

The slope includes multiple species of trees which are well established and whose root structures provide some slope stability. The installation of erosion control measures will attempt to preserve as many of the existing trees as possible, however some tree removals may be necessary to improve the success of the slope stabilization effort. Assessment of the condition of the existing trees by an arborist is not included.

ALTERNATE 1: The Alternate item "**Concrete Wall**" includes construction of new concrete wall as specified in the Plans (see sheets **39979-03-D** and **39979-14-D** for more details). If this alternate is not awarded, the Contractor shall still construct the 4 foot wide concrete path surrounding the 2-5 year old play area, move relocated light post adjacent to the 4 foot path, and terminate the pervious concrete into the 4 foot path near the sand area, as specified on the Plans and as directed by the Resident Engineer.

ALTERNATE 2: The Alternate item for "**Shade Structure**" includes the construction of the new shade structure as specified in the Plans (see sheet **39979-03-D** and **39979-14-D** for more details).

1.1. The Work shall be performed in accordance with:

1.1.1. The Notice Inviting Bids and Plans numbered **39979-01-D** through **39979-21-D**, inclusive.

- ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$1,635,000**.
- LOCATION OF WORK:** The location of the Work is as follows:

See Appendix E – Location Map
- CONTRACT TIME:** The Contract Time for completion of the Work, including the Plant Establishment Period, shall be **154 Working Days**.

ATTACHMENT B
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ATTACHMENT C
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ATTACHMENT D
PREVAILING WAGES

PREVAILING WAGES

1. **PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
 - 1.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
 - 1.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
 - 1.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.
 - 1.2. **Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed. This shall be in addition to any other applicable penalties allowed under Labor Code sections 1720 – 1861.

- 1.3. Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
- 1.3.1.** Contractor and their subcontractors shall also furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 1.4. Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 1.5. Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on contractors and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 1.6. Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 1.7. Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."
- 1.8. Labor Compliance Program.** The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Equal Opportunity Contracting Department at 619-236-6000.

- 1.9. Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid or proposal, subject to the requirements of section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.
- 1.9.1.** A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.
- 1.9.2.** By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration for themselves and all listed subcontractors to the City at the time of bid or proposal due date or upon request.
- 1.10. Stop Order.** For Contractor or its subcontractors engaging in the performance of any public work contract without having been registered in violation of Labor Code sections 1725.5 or 1771.1, the Labor Commissioner shall issue and serve a stop order prohibiting the use of the unregistered contractors or unregistered subcontractor(s) on ALL public works until the unregistered contractor or unregistered subcontractor(s) is registered. Failure to observe a stop order is a misdemeanor.
- 1.11. List of all Subcontractors.** The City may ask Contractor for the most current list of subcontractors (regardless of tier), along with their DIR registration numbers, utilized on this Agreement at any time during performance of this contract, and Contractor shall provide the list within ten (10) working days of the City's request. Additionally, Contractor shall provide the City with a complete list of all subcontractors utilized on this contract (regardless of tier), within ten working days of the completion of the contract, along with their DIR registration numbers. The City shall withhold final payment to Contractor until at least 30 days after this information is provided to the City.

1.12. Exemptions for Small Projects. There are limited exemptions for installation, alteration, demolition, or repair work done on projects of \$25,000 or less. The Contractor shall still comply with Labor Code sections 1720 et. seq. The only recognized exemptions are listed below:

1.12.1. Registration. The Contractor will not be required to register with the DIR for small projects. (Labor Code section 1771.1)

1.12.2. Certified Payroll Records. The records required in Labor Code section 1776 shall be required to be kept and submitted to the City of San Diego, but will not be required to be submitted online with the DIR directly. The Contractor will need to keep those records for at least three years following the completion of the Contract. (Labor Code section 1771.4).

1.12.3. List of all Subcontractors. The Contractor shall not be required to hire only registered subcontractors and is exempt from submitting the list of all subcontractors that is required in section 4.20.11 above. (Labor code section 1773.3).

ATTACHMENT E
SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

The following Supplementary Special Provisions (SSP) modifies the following documents:

1. The **2015 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
2. The **2015 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
 - a) General Provisions (A) for all Contracts.

SECTION 1 – TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

- 1-2 TERMS AND DEFINITIONS.** To the "WHITEBOOK", item 54, "Normal Working Hours", ADD the following:

The **Normal Working Hours** are 7:00 AM to 3:30 PM.

SECTION 2 - SCOPE AND CONTROL OF WORK

- 2-3.2 Self Performance.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall perform, with your own organization, Contract Work amounting to at least 30% of the base Bid **AND** 30% of any alternates.

- 2-7 SUBSURFACE DATA.** To the "WHITEBOOK", ADD the following:

4. In preparation of the Contract Documents, the designer has relied upon the following reports of explorations and tests of subsurface conditions at the Work Site:
 - a. Report of Geotechnical Investigation Rolling Hills Park Rehabilitation.
5. The reports listed above are referenced in **Appendix H**.

ADD:

- 2-10 AUTHORITY OF THE BOARD AND THE ENGINEER.** To the "GREENBOOK", Paragraph (2), DELETE in its entirety and SUBSTITUTE with the following:

The decision of the Engineer is final and binding on all questions relating to: quantities; acceptability of material, equipment, or work; execution, progress or sequence of work; requests for information (RFI), and interpretation of the Plans, Specifications, or other Contract Documents. This shall be precedent to any payment

under the Contract. The Engineer shall be the single point of contact and shall be included in all communications.

2-16 **CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM.** To the "WHITEBOOK", item 1, DELETE in its entirety.

SECTION 3 – CHANGES IN WORK

3-5.1 **Claims.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

ADD:

3-5.1 **Claims.**

1. A Claim is a written demand by you that seeks an adjustment in the Contract Price, Contract Time, or other relief associated with a dispute arising under or relating to the Contract, including a breach of any provision thereof. A voucher, invoice, or other routine request for payment is not a Claim.
2. A Claim shall conform to these specifications and may be considered after the City has previously denied a request by you for a Change Order seeking the demanded relief.
3. You shall submit a Claim to the Engineer if a dispute occurs that arises from or relates to the Contract. The Claim shall seek all relief to which you assert you are entitled as a result of the event(s) giving rise to the dispute. Your failure to process a Claim in accordance with these specifications shall constitute a waiver of all relief associated with the dispute. Claims are subject to 6-11, "Right to Audit".
4. You shall continue to perform the Services and Work and shall maintain the Schedule during any dispute proceedings. The Engineer will continue to make payments for undisputed Services and Work.
5. The City's Claims process specified herein shall not relieve you of your statutory obligations to present claims prior to any action under the California Government Code.

3-5.1.1 **Initiation of Claim.**

1. You shall promptly, but no later than 30 Days after the event(s) giving rise to the Claim, deliver the Claim to the Engineer.
2. You shall not process a Claim unless the Engineer has previously denied a request by you for a Change Order that sought the relief to be pursued in the claim.

3-5.1.1.1 **Claim Certification Submittal.**

1. If your Claim seeks an increase in the Contract Price, the Contract Time, or both, submit with the Claim an affidavit certifying the following:

- a) The Claim is made in good faith and covers all costs and delays to which you are entitled as a result of the event(s) giving rise to the Claim.
- b) The amount claimed accurately reflects the adjustments in the Contract Price, the Contract Time, or both to which you believe you are entitled.
- c) All supporting costs and pricing data are current, accurate, and complete to the best of your knowledge. The cost breakdown per item of Work shall be supplied.
- d) You shall ensure that the affidavit is executed by an official who has the authority to legally bind you.

3-5.1.2 Initial Determination.

- 1. The Engineer will respond in writing to your Claim within 30 Days of receipt of the Claim.

3-5.1.3 Settlement Meeting.

- 1. If you disagree with the Initial Determination, you shall request a Settlement Meeting within 30 Days. Upon receipt of this request, the Engineer will schedule the Settlement Meeting within 15 Working Days.

3-5.1.7 City's Final Determination.

- 1. If a settle agreement is not reached, the City shall make a written Final Determination within 10 Working Days after the Settlement Meeting.
- 2. If you disagree with the City's Final Determination, notify the Engineer in writing of your objection within 15 Working Days after receipt of the written determination and file a "Request for Mediation" in accordance with 3-5.2, "Dispute Resolution Process".
- 3. Failure to give notice of objection within the 15 Working Days period shall waive your right to pursue the Claim.

3-5.1.8 Mandatory Assistance.

- 1. If a third party dispute, litigation, or both arises out of or relates in any way to the Services provided under the Contract, upon the City's request, you shall agree to assist in resolving the dispute or litigation. Your assistance includes, but is not limited to the following:
 - a) Providing professional consultations.
 - b) Attending mediations, arbitrations, depositions, trials, or any event related to the dispute resolution and litigation.

3-5.1.8.1 Compensation for Mandatory Assistance.

- 1. The City will reimburse you for reasonable fees and expenses incurred by you for any required assistance rendered in accordance with 3-5.1.8, "Mandatory Assistance" as Extra Work.

2. The Engineer will determine whether these fees and expenses were necessary due to your conduct or failure to act.
3. If the Engineer determines that the basis of the dispute or litigation in which these fees and expenses were incurred were the result of your conduct or your failure to act in part or in whole, you shall reimburse the City for any payments made for these fees and expenses.
4. Reimbursement may be through any legal means necessary, including the City's withholding of your payment.

3-5.2.3 Selection of Mediator. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. A single mediator, knowledgeable in construction aspects and acceptable to both parties, shall be used to mediate the dispute.
2. To initiate mediation, the initiating party shall serve a Request for Mediation at the American Arbitration Association (AAA) on the opposing party.
3. If AAA is used, the initiating party shall concurrently file with AAA a "Request for Mediation" along with the appropriate fees, a copy of requested mediators marked in preference order, and a preference for available dates.
4. If AAA is selected to coordinate the mediation (Administrator), within 10 Working Days from the receipt of the initiating party's Request for Mediation, the opposing party shall file the following:
 - a) A copy of the list of the preferred mediators listed in preference order after striking any mediators to which they have any objection.
 - b) A preference for available dates.
 - c) Appropriate fees.
5. If the parties cannot agree on a mediator, then each party shall select a mediator and those mediators shall select the neutral third party to mediate the matter.

3-5.3 Forum of Litigation. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. It is the express intention that all legal actions and proceedings related to the Contract or Agreement with the City or to any rights or any relationship between the parties arising therefrom shall be solely and exclusively initiated and maintained in courts of the State of California for the County of San Diego.

SECTION 4 - CONTROL OF MATERIALS

4-1.3.3 Inspection of Items Not Locally Produced. To the "WHITEBOOK", DELETE in its entirety.

ADD:

4-1.3.3 Inspection of Items Not Locally Produced. To the “GREENBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

1. When you intend to purchase materials, fabricated products, or equipment from sources located more than 200 miles (321.9 km) outside the geographical limits of the City, City Lab staff or a qualified inspection agency approved by the Engineer, shall be engaged at your expense to inspect the materials, equipment, or process.
2. This approval shall be obtained before producing any material or equipment. City Lab staff or inspector shall evaluate the materials for conformance with the requirements of the Plans and Specifications. You shall forward reports required by the Engineer. No materials or equipment shall be shipped nor shall any processing, fabrication or treatment of such materials be done without proper inspection by City Lab staff or the approved agent. Approval by said agent shall not relieve you of responsibility for complying with the requirements of the Contract Documents.
3. The Engineer may elect City Lab staff to perform inspection of an out-of-town manufacturer. You shall incur additional inspection costs of the Engineer including lodging, meals, and incidental expenses based on Federal Per Diem Rates, along with travel and car rental expenses. If the manufacturing plant operates a double shift, a double shift shall be figured in the inspection costs.
 - a) At the option of the Engineer, full time inspection shall continue for the length of the manufacturing period. If the manufacturing period will exceed 3 consecutive weeks, you shall incur additional inspection expenses of the Engineer's supervisor for a trip of 2 Days to the site per month.
 - b) When the Engineer elects City Lab staff to perform out-of-town inspections, the wages of staff employed by the City shall not be part of the additional inspection expenses paid by you.
 - c) Federal Per Diem Rates can be determined at the location below:

<https://www.gsa.gov/portal/content/104877>

4-1.3.5 Special Inspection. To the “WHITEBOOK”, ADD the following:

5. The payment for special inspection Work specified under this section shall be paid in accordance with 4-1.3.4.1, “Payment”.

4-1.3.6 Preapproved Materials. To the “WHITEBOOK”, ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

4-1.6 Trade Names or Equals. To the “WHITEBOOK”, ADD the following:

11. You shall submit your list of proposed substitutions for an “equal” item **no less than 5 Working Days after the determination of the Apparent Low**

Bidder and on the City's Product Submittal Form available at:

<http://www.sandiego.gov/publicworks/edocref/index.shtml>

SECTION 5 – UTILITIES

5-2 PROTECTION. To the "WHITEBOOK", item 2, ADD the following:

- g) Refer to **Appendix G** for more information on the protection of AMI devices.

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

6-1.1 Construction Schedule. To the "WHITEBOOK", item 20, ADD the following:

The 90 Calendar Day for the Plant Establishment Period is included in the stipulated Contract Time.

To the "WHITEBOOK", item 22, subsection b, DELETE in its entirety and SUBSTITUTE with the following:

- b) A curve value percentage comparison between the Contract Price and the updated cash flow forecast for each Project ID included in the Contract Documents. Curve values shall be set on a scale from 0% to 100% in intervals of 5% of the Contract Time. Refer to the Sample City Invoice materials in the Contract Documents and use the format shown. Your invoice amounts shall be supported by this curve value percentage. For previous periods, use the actual values and percentages and update the curve value percentages accordingly.

ADD:

6-3.2.1.1 Environmental Document.

1. The City of San Diego has prepared a **Notice of Exemption** for **Rolling Hills Neighborhood Park ADA, Project No. S-15021**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Notice of Exemption** as set forth in **Appendix A**.
2. Compliance with the City's environmental document shall be included in the Contract Price.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

7-3 INSURANCE. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

7-3 INSURANCE.

1. The insurance provisions herein shall not be construed to limit your indemnity obligations contained in the Contract.

7-3.1 Policies and Procedures.

1. You shall procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You shall maintain this insurance for the duration of this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this Contract.
4. The payment for insurance shall be included in the Contract Price as bid by you. Except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any Work under this Contract until you have provided and the City has approved all required insurance.
5. Policies of insurance shall provide that the City is entitled to 30 Days (10 Days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

7-3.2 Types of Insurance.

7-3.2.1 Commercial General Liability Insurance.

1. Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).

3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense shall be outside the policy limits. Policy coverage shall be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000

7-3.2.2 Commercial Automobile Liability Insurance.

1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").
2. All costs of defense shall be outside the limits of the policy.

7-3.3 Rating Requirements. Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

7-3.3.1 Non-Admitted Carriers. The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

7-3.4 Evidence of Insurance. Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document shall be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

7-3.5 Policy Endorsements.

7-3.5.1 Commercial General Liability Insurance.

7-3.5.1.1 Additional Insured.

1. You shall provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
2. To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
3. The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more shall include liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products,
 - c) your Work, e.g., your completed operations performed by you or on your behalf, or
 - d) premises owned, leased, controlled, or used by you.
4. The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 shall include liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products, or
 - c) premises owned, leased, controlled, or used by you.

7-3.5.1.2 Primary and Non-Contributory Coverage. The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

7-3.5.1.3 Project General Aggregate Limit. The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

7-3.5.2 Commercial Automobile Liability Insurance.

7-3.5.2.1 Additional Insured. Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of

automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

7-3.6 Deductibles and Self-Insured Retentions. You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

7-3.7 Reservation of Rights. The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.

7-3.8 Notice of Changes to Insurance. You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.

7-3.9 Excess Insurance. Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.

7-3.10 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).

1. For Contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), and etc.) by you, you shall keep or require all of your employees or Subcontractors, who provide professional engineering services under this contract, Professional Liability coverage with a limit of **\$1,000,000** per claim and **\$2,000,000** annual aggregate in full force and effect.
2. You shall ensure the following:
 - a) The policy retroactive date is on or before the date of commencement of the Project.
 - b) The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
3. If professional engineering services are to be provided solely by the Subcontractor, you shall:
 - a) Certify this to the City in writing and
 - b) Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.

7-4 **NOT USED.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

7-4 **WORKERS' COMPENSATION INSURANCE AND EMPLOYERS LIABILITY INSURANCE.**

1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.

2. Limits for this insurance shall be not less than the following:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

7-4.1 **Waiver of Subrogation.** The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

ADD:

7-6 **THE CONTRACTORS REPRESENTATIVE.** To the "GREENBOOK", ADD the following:

1. Both the representative and alternative representative shall be employees of the Contractor and shall not be assigned to a Subcontractor unless otherwise approved by the City in writing.

7-13.4 **Contractor Standards and Pledge of Compliance.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The Contract is subject to City's Municipal Code §22.3004 as amended 10/29/13 by ordinance O-20316.

2. You shall complete a Pledge of Compliance attesting under penalty of perjury that you complied with the requirements of this section.

3. You shall ensure that all Subcontractors complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of this section.
4. You may access the Pledge of Compliance at:
http://www.sandiego.gov/purchasing/pdf/contractor_standards_questionnaire.pdf
5. You shall require in each subcontract that the Subcontractor shall abide by the provisions of the City's Municipal Code §22.3004. A sample provision is as follows:

"Compliance with San Diego Municipal Code §22.3004: The Subcontractor acknowledges that it is familiar with the requirements of San Diego Municipal Code §22.3004 ("Contractor Standards"), and agrees to comply with requirements of that section. The Subcontractor further agrees to complete the Pledge of Compliance, incorporated herein by reference."

ADD:

7-13.8 Equal Pay Ordinance.

1. You shall comply with the Equal Pay Ordinance (EPO) codified in the San Diego Municipal Code (SDMC) in section 22.4801 through 22.4809, unless compliance is not required based on an exception listed in SDMC section 22.4804.
2. You shall require all of your Subcontractors to certify compliance with the EPO in their written subcontracts.
3. You shall post a notice informing your employees of their rights under the EPO in the workplace or job site.
4. By signing this Contract with the City of San Diego, you acknowledge the EPO requirements and pledge ongoing compliance with the requirements of SDMC Division 48, section 22.4801 et seq., throughout the duration of this Contract.

ADD:

7-16.1.3 Weekly Updates Recipients.

1. Submit a weekly correspondence with updates, traffic control issues and locations, lane closures, and any other pertinent information (with additional contact names given during award process) to the following recipients:

Name, Senior Engineer, Nikki Lewis. Email: NLewis@sandiego.gov
Name, Project Engineer, Mahsima Mohammadi
Email: MMohammadi@sandiego.gov
Resident Engineer, TBA,

7-20 **ELECTRONIC COMMUNICATION.** To the “WHITEBOOK”, ADD the following:

2. Virtual Project Manager shall be used on this Contract.

7-21.1 **General.** To the “WHITEBOOK”, item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. During the construction phase of projects, the minimum waste management reduction goal is 90% of the inert material (a material not subject to decomposition such as concrete, asphalt, brick, rock, block, dirt, metal, glass, and etc.) and 65% of the remaining project waste. You shall provide appropriate documentation, including a Waste Management Form attached as an appendix, and evidence of recycling and reuse of materials to meet the waste reduction goals specified.

SECTION 9 – MEASUREMENT AND PAYMENT

9-3.1 **General.** To the WHITEBOOK, ADD the following:

3. The Bid item for “**Construction of Park Improvements**” shall include, but is not limited to, hardscape and play surfacing, playground equipment installation, ADA curb ramp and sidewalk installation, site drainage improvements, and slope stabilization to be incorporated as specified in the Plans, Contract Documents, and Technicals. Demolition shall be paid separately through a separate Bid item for “Demolition”.
4. The Alternate Bid item for “**Concrete Wall**” shall include full payment for the construction of new concrete wall as specified in the Plans (see sheet 39979-03-D for more details).
 - a) If this alternate is not awarded, the Bidder shall still construct the 4 foot wide concrete path surrounding the 2-5 year old play area, move relocated light post adjacent to the 4 foot path, and terminate the pervious concrete into the 4 foot path near the sand area, as specified on the Plans and as directed by the Resident Engineer. Payment for this Work shall be included in the “**Construction of Park Improvements**” Bid item.
5. The Alternate Bid item for “**Shade Structure**” shall include full payment for the construction of the new shade structure as specified in the Plans (see sheet 39979-03-D for more details).

SECTION 201 – CONCRETE, MORTAR, AND RELATED MATERIALS

201-1.1.6 **Pervious Concrete.**

201-1.1.6.1 **General.** To the “GREENBOOK”, ADD the following:

In addition to the ASTM references mentioned in the Standard Specifications, the following references shall also apply.

1. ASTM C29 "Test for Unit Weight and Voids in Aggregate"
2. ASTM C117 "Test Method for Material Finer than 75 microns (No. 200) Sieve in Mineral Aggregates by Washing."
3. ASTM C172 "Practice for Sampling Fresh Concrete"
4. ASTM C494 "Specification for Chemical Admixtures for Concrete"
5. ASTM 989 "Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars."
6. ASTM C1077 "Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and criteria for Laboratory Evaluation."
7. ASTM D448 "Specification for Standard Sizes of Coarse Aggregate for Highway Construction."
8. ASTM D1557 "Tests for Moisture-Density Relations of Soils and Soil Aggregate Mixtures Using 10 Pound Rammer and 18-inch Drop."
9. ASTM E329 "Standard Recommended Practice for Inspection and testing Agencies for Concrete, Steel and Bituminous Materials as Used in Construction."
10. ASTM C1688 "Standard Test for Fresh Density of Pervious Concrete."
11. ASTM C1701 "Standard Test for Determining the Permeability of Pervious Concrete."
American Association of State Highway and Transportation Officials (AASHTO)
12. AASHTO T-180 "Moisture-Density Relations of Soils Using a 101 lb (45.4 kg) Rammer and an 18" (457 mm) Drop."

201-1.1.6.2 Materials. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

Materials shall consist of:

- a) Portland Cement Type I or II, conforming to ATMA C150 or Portland Cement Type IP or IS, conforming to ASTM C595;
- b) and ADD the following: Coarse aggregate shall be ¾" which meets ¾" to No 16 per ASTM C33, or meeting ¾" to No.50 per ASTM D448;
- c) water confirming to 201-1.2.3;
- d) hydration stabilizing (Type B or D), air-entraining, and/or specific performance chemical admixtures confirming to 201-1.2.4. A hydration stabilizer will be utilized and is recommended in the design and production of pervious concrete. This stabilizer suspends cement hydration by forming a protective barrier around the cementitious particles, which delays the particles from achieving initial set. The admixture's primary function should be as a hydration stabilizer, however it must also meet the requirements of ASTM C494 Type B Retarding or type D Water Reducing/Retarding admixtures. Admixtures shall be used in accordance with the manufacturer's instructions and recommendations. Air entraining agents if used shall comply with ASTM C260.

201-1.1.6.3 Mix Design To the "GREENBOOK", ADD the following:

Mix water shall be such that the cement paste displays a wet metallic sheen without causing the paste to flow from the aggregate.

Mix water yielding a cement paste with a dull-dry appearance has insufficient water for hydration.

Insufficient water results in inconsistency in the mix and poor bond strength.

High water content that results in the paste sealing the void system primarily at the bottom and provides a poor surface bond shall not be allowed.

NO Fly ash to be used in the mix.

Aggregate Content The volume of aggregate per cubic yard shall be equal to 27 cubic feet when Calculated as a function of the unit weight determined in accordance with ASTM C29 jiggling procedure. Fine aggregate, if used, should not exceed 3 cubic feet and shall be included in the total aggregate volume.

202-4 PERMEABLE INTERLOCKING PAVERS

202-4.1 General. To the "WHITEBOOK", ADD the following:

The following additional references shall apply.

ASTM D698-00a, Standard test methods for laboratory compaction characteristics of soil using standard effort

ASTM D 1557-00, Standard test methods for laboratory compaction characteristics of soil using modified effort

ASTM D 2940-98, Standard specification for graded aggregate material for bases or subbases for highways

Interlocking Concrete Paving Institute (ICPI) build select datasheet
ICPI-Tech Spec series of technical bulletins.

ADD:

202-4.1.2 Submittals and Quality Assurance:

Submit certificates (with bid) signed by Interlocking Concrete Pavement Institute (ICPI), certifying that installer is certified by ICPI.

Samples for verification. Two samples of each color of pavers, in the size specified, shall be submitted to the Resident Engineer, in accordance with the section entitled submittal procedures, to indicate colors to be supplied on this job.

202-4.2.1 Permeable interlocking Concrete Paver. To the “WHITEBOOK”, ADD the following:

The pavers shall be the Aqua-Via Trio (or approved equal) with a micro-chamfer of 6mm or less. The void areas of each paver shall have no chamfer. The maximum distance between the edge of a chamfer on one paver and another, (or space of the void between any two pavers) shall be 10 mm. These pavers have been certified by the ICPI as Accessibility compatible.

202-4.2.4 Base Aggregate. To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

Base Aggregate shall be a Caltrans Class II permeable in the depths specified on the plans.

SECTION 217 – BEDDING AND BACKFILL MATERIALS

217-2.2 Stones, Boulders, and Broken Concrete. To the “GREENBOOK”, Table 217-2.2, DELETE in its entirety and SUBSTITUTE with the following:

TABLE 217-2.2

Zone	Zone Limits	Maximum Size (greatest dimension)	Backfill Requirements in Addition to 217-2.1
Street or Surface Zone	From ground surface to 12" (300 mm) below pavement subgrade or ground surface	2.5" (63 mm)	As required by the Plans or Special Provisions.
Street or Surface Zone Backfill of Tunnels beneath Concrete Flatwork		Sand	Sand equivalent of not less than 30.
Trench Zone	From 12" (300 mm) below pavement subgrade or ground surface to 12" (300 mm) above top of pipe or box	6" (150 mm)	
Deep Trench Zone (Trenches 3' (0.9 m) wide or wider)	From 60" (1.5 m) below finished surface to 12" (300 mm) above top of pipe or box	Rocks up to 12" (300 mm) excavated from trench may be placed as backfill	
Pipe Zone	From 12" (300 mm) above top of pipe or box to 6" (150 mm) below bottom of pipe or box exterior	2.5" (63 mm)	Sand equivalent of not less than 30 or a coefficient of permeability greater than 1-½ inches/hour (35 mm per hour).
Overexcavation	Backfill more than 6" (150 mm) below bottom of pipe or box exterior	6" (150 mm)	Sand equivalent of not less than 30 or a coefficient of permeability greater than 1-½ inches/hour (35 mm per hour). Trench backfill slurry (100-E-100) per 201-1 may also be used.

SECTION 303 – CONCRETE AND MASONRY CONSTRUCTION

ADD:

303-8.1.1 Quality Assurance.

- a) ACCESS: Pervious concrete installer must be able to get his concrete truck to thin 200 feet of the furthest section of pervious pavement.
- b) SPECIAL EQUIPMENT: Some special equipment (compacting roller; misters, etc.) specific to pervious concrete placement will need to be purchased or built by the placing Contractor.
- c) TEST PANELS: Contractor is to place, joint and cure one test panel, to be a minimum of 225 square feet at the required project thickness to demonstrate to the Engineer's and Owner's satisfaction that satisfactory pavement compaction and finish can be installed at the site location.
- d) Test panels may be placed at the site location. Test panels shall be evaluated for thickness, compaction and porosity.
- e) If the test panels are found to be insufficiently porous or insufficiently compacted, the test panel shall be removed at the Contractor's expense and disposed of in an approved landfill.
- f) If test panels are found to be satisfactory, they can be left in place and included in the completed work.
- g) Determination of thickness, porosity and compaction shall be determined by an inspector of choice of the Owner.
- h) Should the Contractor wish to dispute findings of inspector, acceptability shall be determined at Contractor's expense by achieving: compacted thickness according to ASTM C42 of no less than 1/4" of specified thickness, void structure of 10% minimum when tested in accordance with ASTM C140, and unit weight within +/- 5 pcf of the design unit weight when tested in accordance with ASTM C140 paragraph 6.3.
- i) CONCRETE MIX DESIGN: Contractor shall furnish a proposed mix design with proportions of materials to Owner or Agent prior to commencement of work. The data shall include unit weights determined in accordance ASTM C1688. Compacted void content shall be a minimum of 18% +/-3%. Cement content must be sufficient to hydrate cements but not enough to generate fluidity of mix.

303-8.3 Subgrade: To the "WHITEBOOK", ADD the following:

2. The subgrade shall be compacted uniformly. Care must be taken not to over compact the subgrade during excavation or during construction. When practical, do not excavate pervious areas until necessary to prepare for paving to avoid over compaction of the base by construction traffic. Subgrade stabilization shall not be permitted.
3. If fill material is required to bring the subgrade to final elevation (embankment), it shall be clean and free of deleterious materials. It shall be placed in 8" maximum layers, and compacted by a mechanical vibratory compactor to a minimum, match the density of the cut areas.

ADD:

303-8.3.1 Subgrade Moisture.

The subgrade shall be in a moist condition (+/- 3% of the optimum moisture content as determined by the modified compaction test ASTM D1557 or AASHTO T180). Soak the subbase 2-12 hours prior to pouring and again just prior to pouring to control high base temperature. This may be waived in wetweather.

303-8.4 Forms. To the "GREENBOOK", ADD the following:

Forms may be of wood or steel but shall be of sufficient strength and stability to support mechanical equipment without deformation of plan profiles following spreading, strike-off and compaction operations.

303-8.5 Placement. To the "WHITEBOOK", ADD the following:

1. MIX TIME: Truck mixers shall be operated at the speed designated as mixing speed by the manufacturer for 75 to 100 revolutions of the drum.
2. TRANSPORTATION: The Portland cement aggregate mixture may be transported or mixed on-site and should be used within one hour of the introduction of mix water, unless otherwise approved by an engineer. This time can be increased to 90 minutes when utilizing the hydration stabilizer specified in Section 201-1.1.6.2 of this document.
3. DISCHARGE: Each mixer will be inspected for appearance of concrete uniformity. Water may be added to obtain the required mix consistency. A minimum of 20 revolutions at the manufacturer's designated mixing speed shall be required following the addition of any water to the mix. Discharge shall be a continuous operation and shall be completed as quickly as possible. Concrete shall be deposited as close to its final position as practicable and such that fresh concrete enters the mass of previously placed concrete.
4. Use of finishing tools will be allowed if they do not cause reduce permeability below specified minimums.
5. Care should be taken during compaction that full compactive force is achieved without working the concrete surface enough to seal off the surface porosity.

303-8.6.1.2 Construction Methods. To the "GREENBOOK", ADD the following:

Joints installed in the plastic concrete that is six inches or deeper shall be rolled in per these specifications. In order to assure aggregate bond at construction joints, a bonding agent suitable for bonding fresh concrete to existing concrete shall be

brushed, rolled or sprayed on existing pavement surface edge. Isolation (expansion) joints will not be used except when pavement is abutting slabs or other adjoining structures. Fill all construction, contraction, and expansion joints with joint sealer immediately after following the cure period or as soon thereafter as conditions permit. Clean the joints and fill with a traffic rated polyurea joint filler. Joint filler to be approved by Resident Engineer and installed per manufacturer's recommendations.

303-8.7 Curing. To the "WHITEBOOK", ADD the following:

4. The pavement surface curing shall be achieved using polyethylene sheeting or other approved covering material that prevents surface raveling. If the concrete mix contains internal curing from super absorbent polymers and the contractor can demonstrate alternative curing options that prevent surface raveling, those surface curing methods will be allowed. Cure options: Low solids evaporative curing compounds or a combination of spray and plastic sheeting will be allowed if they protect from raveling. Surface curing is always required, even if internal curing products are used. Internal curing is described as water entrapped in the mix, which is slowly released after placement. If plastic is used the cover shall overlap all exposed edges and shall be secured (without using dirt or stone) to prevent dislocation due to winds or adjacent traffic conditions.
5. Cure Time: In temperature above 55 degrees Fahrenheit, cure time shall be 24 hours for foot traffic, 10 days minimum for vehicular traffic.
6. For mixes without internal cure, cover shall remain on during cure.

303-9 PERMEABLE INTERLOCKING CONCRETE PAVERS

303-9.2 Construction Test Section. To the "WHITEBOOK", ADD the following:

2. Allow 48 hours for inspection of mock-up before proceeding with work. When accepted, mock-up will demonstrate minimum standard of quality required for this work. Approved mock-up may remain as part of finished work. Paver type and color shall exactly match that shown on the plans. Pavers shall comply with the pattern shown on the plans. An equal amount of each of the colors specified shall be supplied and installed. Color mixing shall appear completely random, even if this requires some manual manipulation of individual colors.

303-9.6 Paving Unit Placement. To the "WHITEBOOK", ADD the following:

7. Pavers and bedding sand shall be clean and free of foreign materials before installation.
8. Paving work shall be plumb, level and true to line and grade; shall be installed to properly coincide and align with adjacent work and elevations. (All edges shall be retained to secure the perimeter stones and the sand-

laying course.) Install pavers so that differential height between adjacent pavers does not exceed 2 mm.

9. Place units hand tight without using hammers and level on the undisturbed sand-laying course. String lines should be used to hold pattern lines true. Make horizontal adjustments to placement of laid pavers with hammers as required.
10. Cutting of paving stones shall be done with a masonry saw.
11. The outside edge of the pavers shall be restrained per the detail shown on the plans.

SECTION 304 –METAL FABRICATION AND CONSTRUCTION

304-5 PAYMENT. To the “WHITEBOOK”, REVISE section “**304-5**” to “**304-6**”

SECTION 800 – MATERIALS

800-1 LANDSCAPE AND IRRIGATION MATERIALS

ADD:

800-1.2.3.3 Fertilizer:

Shall be a highly compressed natural organic humus, high in humic acid and containing most known trace minerals necessary to the development of plant life. Humate shall be and oxidized lignite carbonizes shell, mined from Leanarded. Such as Tri-c humate soil conditioner, no known equal.

800-1.2.4 Organic Soil Amendment. To the “GREENBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

- A. Organic Soil Amendment: Shall be a part of the topsoil and be one of the following:
 1. A humic compost derived from clean plant trimmings from residential source separated curbside pickup and landscape maintenance. It shall not contain animal wastes, sludge or palm waste. With the following properties: It shall have been processed through the State of California thermophilic processing (to eliminate weed seeds and pathogens), and have been composted for a minimum one-month period with peak temperatures reaching 155°F. Moisture content at time of delivery shall be approximately 25%. Weight per cubic yard shall be between 900 and 1150 lbs. Compost shall be screened to pass through a 3/8” mesh screen.

(Shall be similar to Humic Compost from Agri-Service, Inc., or approved equal.)

2. Organic Soil Amendment: Organic Soil Amendment shall be a part of the topsoil and shall be derived from wood with the following properties: It shall be of wood residual product derived from the bark of pine, white fir and red fir, cedar shavings or redwood shavings. Amendment upon analysis shall contain at least 0.5% nitrogen (on a dry weight basis) with an ash content not to exceed 10%. A commercial grade product shall be used. Contractor shall supply Landscape Architect with a sample of the proposed amendment accompanied by laboratory analytical analysis from an approved laboratory illustrating degree of compliance. Guarantee - Wt./Cu./Yd. - 560# - 820#. Nitrogen (organic or Ammonic) 0.5% pH (less than) 6.5. Salinity $EC_e \times 10^3$ at 25° C) - 2.5. Iron (Fe) expressed as metallic 0.01%. Density - approximately 25 Lb. Cu. Ft. Organic matter - 85%. A non-ionic wetting agent should be used. Properties: screen analysis: % retained on stacked screens - 1 mesh - 0.2%, 5 mesh - 36.3%; 8 mesh - 25.7%; 12 mesh - 30.7%; 32 mesh - 5.9%; remainder 0.9%. (Shall be similar or equal to: Loamex, or approved equal.)

800-1.2.5 Mulch. To the "WHITEBOOK", ADD the following: Contractor shall use Type 9 mulch unless otherwise noted.

801-1 LANDSCAPE AND IRRIGATION INSTALLATION

801-1 GENERAL. To the "WHITEBOOK", ADD the following:

5. During installation Contractor shall observe safe practices in accordance with the City of San Diego Standard Specifications, and all appropriate Federal, State and local laws concerning safe job practices. Contractor to be advised there are old buried utilities in this area, which may or may not be accurately located on record documents. Therefore contractor shall use caution when excavating.

ADD:

801-1.1 Protection of Existing Trees.

Several mature trees occur onsite and adjacent to Limit of work zone and are slated to remain. Contractor shall take every precaution to protect and preserve the health, vigor and welfare of these mature trees, including but not limited to the measures described herein, throughout the duration of construction and maintenance. This includes their root systems & Critical Root Zones. For the purposes of this specification, the Critical Root Zone (CRZ) shall be any area under the drip line of the existing trees to remain or just outside the drip line where roots

are encountered, or any area where a significant buttressing root (greater than 3" diameter) may extend even further than the drip line.

Contractor is to be advised that both buttressing roots and feeding roots are to be preserved. In that regard, a protection fence has been specified for placement around the trees and their root zones, as shown on the attached plans. Piping, irrigation systems, and planting have been carefully minimized in these areas. Grading and on grade improvements have been carefully adjusted to further minimize impact to the trees.

Before the onset of construction in this zone, the Contractor shall meet onsite with the Resident Engineer, Park & Rec. Department Arborist, and the Project Manager. At this meeting, the City shall determine if any pruning or other remedial measures need to be taken regarding any of the trees in proximity to the work and the City shall perform these tasks before the start of construction, and turnover of the site to the Contractor. The Contractor shall also notify the Project Manager, Resident Engineer and Park & Rec. Department Arborist of his work schedule, so that he may be on standby by for review of work in the critical root zone.

Contractor shall then install the tree protection fence (and signs) per plans and detail. Protection fencing shall remain in place for the entire duration of construction, unless specifically approved in writing to be temporarily removed for specific tasks, and short durations only, by the Park & Rec. Department Arborist and Resident Engineer. No construction workers, materials, equipment, including construction equipment, debris, or any other items shall be allowed within these fenced and protected areas, throughout the entire duration of construction, without the express written approval of the Park Horticulturist, except for the sole purpose of watering or fertilizing the trees and as listed herein.

As soon as the contractor encounters his first tree roots in this excavated zone, he shall call the Arborist to review the roots "in situ".

Any backfill that takes place within the CRZ shall be done carefully and only to a compaction density that is equal to the density originally found within the root zone.

Removal of existing turf in the root zone of trees to remain, where required, shall be done in the following manner. The turf shall first be shovel cut at the edge of the removal areas. Existing turf, shall then be removed.

Where small (less than 2") piping, conduits or other improvements are required in the root zone, and the contractor encounters roots greater than 1/2" diameter, the contractor shall use a water jet process, rather than a typical trench excavation, and shall avoid cutting of roots.

Maintenance of existing trees throughout the course of construction shall be as follows.

Contractor shall have performed a deep root feeding on the trees by a tree company with a Certified Consulting Arborist present. This deep root feeding shall consist of auguring no less than (30) thirty inches deep 3" or 4" diameter holes per tree, equally spaced in the root zone around each tree and at various distances, with a special backfill per the detail shown on the plans. Locations of the cored holes shall be in the outer half of the drip canopy, in areas of feeding roots, and shall be determined by the

Park & Rec. Department Arborist. At his/her discretion, the Park Horticulturist may have the depth of the holes altered with a corresponding increase in the number of holes, so that each tree receives at least 48 feet of cored hole.

Immediately following, the contractor shall apply a dose of organic soil enhancer and rooting hormone, per specifications and a 6-2-4 organic fertilizer, with 5% sulfur and 20% humic acids in a humate base such as Tri-C or approved equal, at the rate of 25 lbs/1000 square feet, followed by approximately 2" of irrigation applied from a temporary source. After that, the contractor shall install a 2" layer of bark mulch per specifications across the entire area. The same application of fertilizer, rooting hormone and organic soil enhancer shall be repeated at 6-week intervals between April and September (inclusive) and 9-week intervals between October and March (inclusive). For the entire construction period the trees shall be watered from an impact or gear-driven sprinkler head on a stand, connected to a 3/4 or 1" hose and a nearby quick coupler. In addition, the cored holes mentioned above shall be hand watered until full. Watering shall be weekly between April and September (inclusive) and two times a month between October and March (inclusive) except where rainfall exceeds the required ETo at a rate equivalent to at least .65 of ETo evapotranspiration. Watering shall be done under the personal review and auspices of the Resident Engineer, who is further authorized to make adjustments to the schedule.

By necessity and the improvements shown on the plans, some work must take place within the root zone of the trees. However, this has been proposed as limited in nature and scope. The contractor shall have the improvements marked out and reviewed with the Horticultural parties mentioned above.

All trunks, boles, and branches and limbs within the reach of man or machine shall be protected. When/if the contractor has a machine operating near any of the above, there shall be a supervisor on constant standby to keep said equipment away from the trees. Additional measures may be required by the Resident Engineer. Scarring on trees, tree trunks, boles, branches or limbs will not be tolerated. Contractor is to refer to the damages paragraph of this section.

The contractor and the City shall have Park & Rec. Department Arborist review the trees once per month during the construction period to assess their condition. If remedial measures (beyond pest control or these specifications) are required, and it is deemed by the Resident Engineer that they are due to contractor abuse,

negligence, or lack of diligent care and culture of said trees, the contractor shall immediately implement such measures at his/her own cost. If the tree becomes infested with insects, the contractor shall likewise implement required remedies at his/her cost. Failure to do so may result in monetary damages.

If contractor causes or is deemed to have caused, in the sole determination of the Resident Engineer, through his/her negligence, abuse, or lack of diligent care and culture per these specifications, the permanent disfigurement (e.g. breaking or scarring) or injury to a tree other than that specifically required by the construction documents, he may be assessed damages of not less than \$1000.00 and no more than \$15,000.00 for each tree so injured depending on the gravity of the injury and the determination by the City.

801-2.3 Finish Grading. To the "WHITEBOOK", ADD the following:

5. Topsoil shall not be imported until after drainage and irrigation trenches have been backfilled and compacted, and any other work in the subgrade is completed.
6. After completion of all soil preparation, conditioning and final adjusting of irrigation heads, correct irregularities in finished surfaces to eliminate depressions, producing a smooth finish for a lawn ready condition. Tolerance for lawn (sod or seed) bed shall be a maximum of 1/2 inch from true plane in any 8-foot direction, and a maximum of 1/4 inch from plane in any 2-foot direction. This will require repeated passes of the laser grader, raking, rolling or dragging. Laser grading to finish grade this site is a requirement. Remove all debris and stones larger than 1/2 inch remaining on the surface.

801-4 PLANTING

801-4.1 General. To the "WHITEBOOK", ADD the following:

7. Actual planting shall be performed during those periods when weather and soil conditions are suitable and in accordance with locally accepted horticultural practice, as approved by the Resident Engineer. No planting shall be done in any area until it has been satisfactorily prepared in accordance with these specifications. Soil moisture level prior to planting shall be no less than 75% of field capacity. The determination of adequate soil moisture for planting shall be the sole judgment of the Resident Engineer and his decision shall be final. The Contractor shall obtain approval of planting pits before planting operations shall begin. If the soil moisture level is found to be insufficient for planting, planting pits shall be filled with water and allowed to drain before starting planting operations.

8. No planting shall be done in any area until it has been satisfactorily prepared in accordance with these specifications. Soil moisture level prior to planting shall be no less than 75% of field capacity. The determination of adequate soil moisture for planting shall be the sole judgment of the Resident Engineer and his decision shall be final. The contractor shall obtain approval of planting pits before planting operations shall begin. If the soil moisture level is found to be insufficient for planting, all planting pits shall be filled with water and allowed to drain before starting planting operations.

801-4.2 Protection and Storage. To the "WHITEBOOK", ADD the following:

2. Any plant determined by the resident engineer to be wilted, broken or otherwise damaged shall be rejected at any time during the project, whether in the ground or not. All rejected plants shall be removed from the site immediately.
3. Trees, and other plants shall be planted at the same level as their original grade in the box or container and sprayed with "Superthrive™" (no known equal) at the manufacturers recommended dosages, within 1 hour after moving, or transplanting and immediately watered well at the edges of the planting pit. Repeat applications of "Superthrive™" are required twice, once at 14 days and once at 30 days. Any pruning shall be done at the direction of the park horticulturist with the recommendations of the landscape advisor. Pruning cuts or wounds shall not be dressed.

801-4.5 Tree and Shrub Planting. To the "WHITEBOOK", ADD the following:

8. Following planting, ground cover and vine areas shall be regarded to restore smooth finish grade and to ensure proper surface drainage. A 1.5-inch (50.8 mm) layer of the specified mulch shall be spread within the planting pit, and 3 inch all other areas, unless specified otherwise on the Plans.

801-4.6.1 Tree Staking. To the "WHITEBOOK", ADD the following:

2. Specimen trees shall be staked with two (2) ten-foot long lodge pole pine stakes positioned outside the root ball and driven at least 24 inch into virgin soil (below the planting pit). Tree ties shall be kept loose enough so that the tree can build reaction wood.
3. Contractor shall monitor and repair the stability of the tree during the establishment and guarantee periods. If necessary, the Contractor shall install any remedial method of tree staking or guying (beyond that specified), that the Resident Engineer may deem necessary for the continued health and vigor of the trees during the establishment period.

801- 4.8 Lawn Planting.

801-4.8.1 General. To the "GREENBOOK", ADD the following:

Guarantee: Work shall be subject to the terms of the clause entitled "Warranty of Construction" of the General Provisions, except that products shall be guaranteed through the maintenance period. All plantings shall be guaranteed for as long as the Contractor is maintaining the landscaping. Any material that is not growing properly during this period shall be replaced by the Resident Engineer Contractor within seven (7) days after the receipt of a written notice by the Resident Engineer or the owner. All plant materials shall be guaranteed for the original period, starting from the date of replacement. The Contractor's guarantee may be extended by the Resident Engineer in cases where plants are slow to establish. If the Contractor fails to make replacements within the time limit, the Owner may replace them at the Contractor's expense after duly notifying him.

Establishment Stage - Irrigation: The irrigation sequence (frequency) shall be reduced while the duration of each watering cycle shall be increased. A specific watering program shall be determined at a site conference with the Park Horticulturist.

Hardening-Off Stage Irrigation:

At the end of the 90-day establishment stage period the watering frequency shall be slowly reduced to once every three or four days if in summer, or once per 7-10 days in winter, (PENDING NORMAL WEATHER), increasing the duration of the water sufficiently to allow for maximum water penetration for the expanding root system, while at the same time taking care not to cause erosion. The watering frequency for trees can be extended to a longer interval. The precise watering reduction program will be determined for each area.

Fertilization for all Lawn Areas:

- 16-6-8 Five days after germination
- 16-6-8 Every 21 days through acceptance of maintenance period
- 21-0-0 At end of maintenance period

Fertilization for all Trees, Shrubs and Groundcovers:

6-20-20 at 25 lbs./1000 square feet at 30-day intervals

"Within 2 hours after any section of seed is installed, it shall be lightly irrigated with an application of Superthrive and water. Seed that fails to germinate, stay green and healthy, shall be replaced by the contractor at his/her own expense. Workmen shall not be allowed to walk on grass areas unnecessarily before, during or after seeding operations. Grass areas that have been damaged or compacted shall be re-cultivated and re-seeded at contractor's expense.

801-5 Irrigation System Installation.

801-5.1 General. To the "WHITEBOOK", ADD the following:

There are several Irrigation heads and lateral lines within the work area to be preserved per this section, or, if damaged, removed and replaced in-kind with new equipment, per these plans and specifications. All existing irrigation improvements (sprinkler heads and lines) within the work area shall be surveyed and recorded by the engineer and marked out before the onset of construction. Where existing sprinkler heads can be protected, they shall be marked as such, before work starts, and protected with OSHA netting encircling them in a one-foot radius around them, or by another method, if approved by the Park Horticulturist.

If sprinkler heads or lines are to be cut, or are in such a place that they will be damaged by construction. The lines that service them shall be excavated at the edge of the work area and cleanly cut, capped, inspected by the Park personnel and locations clearly marked for later re-construction. Such irrigation lines and sprinkler heads shall be re-installed and inspected near the end of construction, in a manner that conforms to these specifications.

801-5.2 Trench Excavation and Backfill. To the "WHITEBOOK", ADD the following:

5. Backfill in all trenches shall be at the proper moisture content and compacted in accordance with Section 306-1.3.2., EXCEPT as mentioned above, for any backfill that takes place within the CRZ.

801-6 MAINTENANCE AND PLANT ESTABLISHMENT. To the "WHITEBOOK", ADD the following:

10. For all planted areas, the PEP shall be 90 days from the date of substantial completion, as defined in this section, or until final acceptance. If hydroseeding is used the PEP shall be 120 days.
11. In addition to fertilization specified above, repeat applications of "Superthrive™" (in addition to the application specified at planting time) are required twice, once at 14 days and once at 30 days after planting for all areas.
12. Maintenance: Maintain all planting areas in a vigorous, thriving condition by watering, cultivating, spraying, washing off walks, and any other necessary operations during the entire period of the installation and until final acceptance by the Resident Engineer.
13. Contractor shall continuously maintain all areas included in the contract during the progress of the work, the maintenance period, through the PEP, and until final acceptance of the work.

14. Establishment work includes all watering, weeding, planting, cultivating, spraying, and trimming necessary to bring the planted areas to a healthy growing condition, and any additional work needed to keep the areas neat, edged, and attractive.
15. During the PEP, any area of seed cover indicating weakness or probability of dying, shall be replaced by the Contractor at his own expense.
16. Constant diligence shall be maintained to detect the presence of disease, insects, and/or rodent infestations and proper preventative or control measures taken.
17. At completion of the PEP, all areas included in the contract shall be substantially clean and free of debris and seeds. All seeded or sodded areas shall be live, healthy, and free of infestations.
18. Any erosion or slippage of soil caused by irrigation shall be repaired by the Contractor at his expense.
19. All paved areas shall be kept clear of debris, mud, dust, and standing water by sweeping, mopping, or hosing down as required to maintain cleanliness throughout.
20. Any day upon which no work is required as determined by the Engineer, the day will be credited as one of the plant establishment working days, regardless of whether or not the contractor performs plant establishment work. The Contractor shall provide complete landscape maintenance of all lawn, stabilized decomposed granite paving, trees and tree wells. The work shall include, but not be limited to, watering, litter control, weed control, repair, cultivating, adjustment or repair of irrigation systems, and control of diseases and pests.
21. At the direction of the Resident Engineer, the Contractor shall control weeds, disease, and pest infestations in the planting areas. The Engineer shall approve all methods and materials for such control. Upon approval, the contractor shall implement the control measures exercising extreme caution in using pesticides and taking all steps to ensure the safety of the public. Only licensed personnel will be permitted to perform toxic spraying work.
22. During the PEP, the Contractor shall furnish sufficient men and equipment on a daily or weekly basis to perform the work required by this section. Any day when the Contractor fails to adequately carry out specified maintenance work, as determined necessary by the Engineer, the day will not be credited as one of the plant establishment days. All planting areas which are damaged by construction shall be repaired by the Contractor within 30 days following completion of construction in such areas, unless

otherwise approved. Repair shall consist of bringing the damaged area back to final grade; replanting the area with the same vegetation as originally specified; and maintaining the area to achieve acceptable plant establishment.

23. Contractor shall call for a final inspection two (2) weeks before the end of the PEP. Failure to pass inspection will result in an extension of the PEP for such period as the Engineer deems necessary.

ADD:

801-6.1 Restoration and Clean-Up.

Remove all waste material from the job site. Where adjacent areas have been scarred or damaged, restore these damaged areas to their original condition and re- hydroseed these areas if needed. Remove equipment and implements of service and leave entire area involved in a neat acceptable condition to meet the approval of the Resident Engineer.

ADD:

801-6.2 Plant Establishment Period.

Definition: The plant establishment period shall begin on the date that the Resident Engineer inspects and gives written provisional acceptance of the work and shall continue for 90 or 120 days, as stated in the specifications, from that date.

ADD:

801-6.3 Dead Plant Replacement.

Plants that die from causes other than auto damage or vandalism will be replaced in kind (at Contractor expense) within a week of given notice by the Resident Engineer. If plants die through vandalism or auto damage within the PEP, they shall be replaced (but not at Contractor expense.) Thereafter, if plants die through vandalism or auto damage they shall be replaced by the Contractor as long as the budget has funds available for replacement.

ADD:

801-6.4 Trash Removal.

All trash will be removed from the site weekly as it accumulates, until job closeout.

ADD:

801-6.5 Pruning.

Pruning may be necessary to maintain the health of certain species or for safety purposes. However, most plants should be allowed to grow in a natural state without pruning.

ADD:

801-6.6 Pest Control.

Insects and plant diseases will be monitored. Biological control will be used whenever possible. Plants that are severely diseased will be removed and replaced to prevent the spread of disease and insects. Rodent control, if necessary, will be restricted to the use of traps with no secondary poisoning effects. All specific pest control measures will be recommended by a licensed pest control advisor with specific review and approval by the Resident Engineer.

Because of the urban nature and proximity of large numbers of people to this project, herbicides or pesticides shall **not** be used unless specifically authorized by all reviewing agencies and only after other means or materials (such as soapy water, power washing or organic controls) have been used without success or deemed in appropriate. When/if they are approved, they shall be used in accordance with all state and local requirements, in an Integrated Pest Management program (IPM) and appropriate applications with strict adherence to manufacturers' specifications and instructions.

ADD:

801-6.7 GUARANTEE.

The entire irrigation system shall be guaranteed against defects in material and workmanship for a period of one year from the date of acceptance of the work.

All plant material shall be guaranteed to live and grow through the PEP to the day of final acceptance of the contract work.

Any material found to be dead, missing or in poor condition during the PEP, shall be replaced immediately. The Engineer shall be the sole judge as to the condition of the material. Material found to be dead or in poor condition within the guarantee period shall be replaced by the contractor at his expense. Replacements shall be made to the same specifications required for the original plantings.

Should the contractor fail, during the guarantee period, to expeditiously correct a defect upon written notification by the City, the City shall cause the work to be corrected and bill the actual costs incurred to the Contractor. In addition, this

default shall be written into the City's record regarding this Contractor. Defect corrections shall include the complete restoration of existing improvements.

801-7 MAINTENANCE OF EXISTING TREES. To the "WHITEBOOK", ADD the following:

2. Contractor may be required, at the direction of the Parks Department arborist, to prune any existing trees within or adjacent to the work area. Of specific interest would be large dead limbs, trees where a significant amount of root mass has been compromised, or other safety, stability issues.

801-7.1 Tree Trimming. To the "WHITEBOOK", ADD the following:

7. Pruning on all trees if required, shall be done once during the PEP, and shall be limited to the minimum necessary; to allow air flow through the tree to relieve loading and bending in the wind, or remove injured twigs and branches, and to compensate for loss of roots during transplanting, but never to exceed one-tenth the branching structure. Pruning may be done only with the approval of the Park Arborist, and in strict conformance with the recommendations of, Modern Arboriculture by Harris or Tree Pruning by Shigo. In any case all branch collars are to be left intact. Pruning may be done only by a certified arborist. Pruning may be done only with the approval of the Resident Engineer.

SECTION 803 – PLAYGROUND EQUIPMENT AND SURFACING MATERIALS AND INSTALLATION

ADD

803-1 GENERAL.

While the playground equipment is being purchased by the Community, it shall be installed under this construction contract and per these specifications. Installing subcontractor shall be certified for said installations by the playground manufacturer.

803-2 RUBBERIZED PLAY SURFACING

803-2.1 General.

1. Poured-in-place rubberized safety surfacing shall consist of a polyurethane binder mixed with 100% recycled, shredded tire buffings which shall make up the Cushion Layer. The Cushion Layer shall be capped with TPV (Thermal Plastic Vulcanized) granules, mixed with an Aliphatic binder creating the Wear Course. The surface shall comply with ADA and CPSC guidelines as well as ASTM Standards. Playground Surfacing System shall be IPEMA certified.

Poured-in-place rubberized safety surfacing, shall be mixed, poured and troweled on site, and shall meet the requirements of CPSC and ASTM (See below) for play areas. Only aliphatic polyurethane binder shall be used; aromatic polyurethane binder is not acceptable.

Playground Surfacing System shall be IPEMA certified and shall conform to the following:

2. REFERENCES:

A. American Society for Testing and Materials (ASTM):

1. ASTM C1028 Standard Test Method for Determining the Static Coefficient of friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull Meter Method (This standard replaces ASTM D2047.)
2. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
3. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
4. ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials.
5. ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester.
6. ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
7. ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.
8. ASTM F2479-12 Standard Specification for Purchase, Installation and Maintenance

3. SYSTEM DESCRIPTION:

A. Performance Requirements: Provide a 2-layer rubber-urethane playground surfacing system which has been designed, manufactured and installed to meet or exceed the following criteria:

1. Shock Attenuation (ASTM F1292):
 - a. Gmax: Less than 200.
 - b. Head Injury Criteria: Less than 1000. for a head-first fall from the highest accessible portion of play equipment being installed as shown on drawings. IPEMA certification is required. (ASTM F1292-13

section 4.3.3: The laboratory test used to determine critical fall height shall have been conducted on surfacing material samples identical in design, materials, components, and thickness and manufactured as the installed playground surface).

2. Flammability (ASTM D2859): Pass.
3. Water Permeability: 0.4 gal/yd²/second.
4. Accessibility: Comply with requirements of ASTM F195-14.
5. TPV material shall be angular granules with a (Shore A) hardness of 65° A ±5 and a particle size between .5-1.5 mm. Binder shall be not less than 15% percent of the total weight of TPV material used in the wear surface, and shall provide 100% percent coating of the particles. No other granule sizes are acceptable.

4. SUBMITTALS:

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Submittal Procedures Section.
- B. Product Data: Submit manufacturer's product data and installation instructions.
- C. Verification Samples: Submit manufacturer's standard verification samples of 6" x 6" minimum.
- D. Quality Assurance/Control Submittals: Submit the following:
 1. Certificate of qualifications of the playground surfacing installer that comply with all portion of this section shall be submitted 20 Days after the award of Contract.
 2. A signed statement by an authorized official certifying that the surfacing system meets the requirements of ASTM F1292-13 for a head-first fall from the highest accessible portion of the specified playground equipment.
- E. Closeout Submittals: Submit the following:
 1. Warranty documents specified herein.
 2. A signed statement from the manufacturer of the poured in place surfacing attesting that all materials under this section were installed only by the Manufacturer's Trained Installers.
 3. Written IPEMA certification.

5. QUALITY ASSURANCE

- A. Qualifications: Utilize an installer approved and trained by the manufacturer of the playground surfacing system or a direct employee of the manufacturer's installation division, having

experience with other projects of the scope and scale of the work described in this section.

- B. Certifications: Certification by manufacturer that installer is an approved applicator of the playground surfacing system.
- C. International Play Equipment Manufacturers Association (IPEMA) certified.

6. DELIVERY, STORAGE & HANDLING

- A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at a minimum temperature of 40 degrees F (4 degrees C) and a maximum temperature of 90 degrees F (32 degrees C).

7. PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Install surfacing system when minimum ambient temperature is 40 degrees F (1 degree C) and maximum ambient temperature is 95 degrees F (32 degrees C). Exception to the temperature requirements can be made by the manufacturer of the surfacing system. Surfacing system must be installed on a dry sub-surface, with no prospect of rain.
- B. Sequencing and Scheduling: Poured-in place-surfacing system shall be installed after all playground equipment, shade structures, signs and any other items within the surfacing area. Surface installation will be coordinated by a manufacturer approved representative.

8. WARRANTY

- A. Project Warranty: Poured-in-place surfacing shall maintain required impact attenuation characteristics and be guaranteed against defects in workmanship and materials for a limited Seven (7) years from date of completion of work.
- B. Proper drainage is critical to the longevity of the Poured-in place surfacing system. Inadequate drainage will cause premature breakdown of the poured system in affected areas; and void the warranty.

803-2.2 Materials.

- 1. Shall be as manufactured by TotTurf TPV Supreme Poured-In-Place Playground Surfacing System or approved equal. (The Community group has preselected the colors). Only aliphatic polyurethane binder shall be used; aromatic polyurethane binder is not acceptable.

2. CUSHION LAYER SECTION:

- A. Impact Attenuating Cushion Layer: Cushion Layer consists of shredded styrene butadiene rubber (SBR) and/or cryogenic crumb rubber and adhered with a 100% percent solids polyurethane binder to form a resilient porous material.
- B. Strands of SBR may vary from 0.5 mm – 2.0 mm in thickness by 3.0 mm – 20 mm in length. Cushion material may have a 50% SBR Cryogenic Crumb Rubber (5-9 mesh) using a sieve analysis ASTM D5644 and a fiber content of .1% or less mixed in.
- C. Foam or standard rubber granules are not to be permitted in a Cushion Layer.
- D. Binder shall be between 10-14% percent of the total weight of the material, and shall provide 100% percent coating of the particles.
- E. The Cushion Layer shall be compatible with the Wear Course and must meet requirements herein for impact attenuation.

3. WEAR COURSE:

- A. Wear Course shall consist of Thermal Plastic Vulcanized (TPV) granules with an Aliphatic binder formulated to produce an even, uniform, seamless surface up to 2000 square feet. (Contact sales representative for seamless pads over 2000 square feet).
- B. TPV material shall be angular granules with a (Shore A) hardness of 65°A ±5 and particle size between .5-1.5 mm. Binder shall be 22-24% percent of the total weight of TPV material used in the wear surface, and shall provide 100% percent coating of the particles. No other granule sizes are acceptable.
- C. Thickness of the Wear Course shall be ½" – 5/8" inch (minimum ½" inch, 12.7mm).
- D. The Wear Course shall be porous.
- E. Refer to Manufacturer's Specification for the TPV High Density wear resistant inserts under swings, slide exits, and high traffic areas or approved equal.

4. BINDER:

- A. Shall be as Manufactured by VORAMER MR products or approved equal. No Toluene Diphenyl Isocyanate (TDI) shall be used; only Aliphatic urethane shall be used.
- B. No filler materials shall be used in urethane such as plasticizers, and the catalyzing agent shall contain no heavy metals.
- C. Weight of polyurethane shall be no less than 8.5 lbs/gal (1.02 Kg/1) and no more than 9.5 lbs/gal (1.14 Kg/1).
- D. Manufacturer is permitted to modify the type of urethane required to match extreme weather conditions. Substitutions must be equal to or exceed Aliphatic quality.

5. MIXES:

A. Required mix proportions by weight:

1. Basemat: 16+% urethane (as ratio: 14% urethane divided by 86% rubber). 14% urethane, 86% rubber (based on entire rubber & urethane mix).
2. Top Surface: 25% urethane (ratio: 20% urethane divided by 80% TPV). 20% urethane, 80% TPV (based on entire rubber & urethane mix).

803-2.3 Installation.

803-2.3.1 Manufacturer's Instructions.

Comply with the instructions and recommendations of the playground surfacing manufacturer.

803-2.3.2 Examination.

1. Finished Grade/Slope: Verify that finished elevations of adjacent areas are as indicated on the architectural or site plans, that the appropriate sub-grade elevation has been established for the particular safety surface to be installed, and that the subsurface has been installed per architectural, site or equipment plans while meeting accessibility and use zones requirements.
2. Aggregate Sub Base: Tolerance of aggregate sub base shall be within 3/8-inch (10 mm) in 10 feet (3050 mm). Verify that aggregate sub base has been fully compacted. Per ADA Guidelines: compacted Aggregate sub base – 4 inches of 3/4-inch minus irregular stone with fines compacted to 95% percent in 2 inch watered lifts.
3. Pervious Concrete Sub Base: Tolerance of concrete or bituminous sub base shall be within 1/8-inch (3.0 mm) in 10 feet (3,050 mm). Per ADA Guidelines: Concrete a minimum of 3– 4 inches at a minimum 2,500 PSI. Concrete must cure for 7 days prior to application of cushion layer. Concrete must cure 28 days if wear course is to be applied directly to concrete surface. If Poured in Place surfacing is installed, verify that the Concrete Sub Base has cured (all areas appear white in color usually at 7 days) and that all concrete curing compounds and other deleterious substances that might adversely affect adhesion have been removed. Surface shall be clean and dry.
4. Verify that sub-surface drainage has been installed to provide positive and rapid evacuation of rainfall. Inadequate drainage will cause premature breakdown of the poured system in affected areas; and void the warranty

803-2.3.3 Preparation.

1. Using a brush or short nap roller, apply primer to the substrate perimeter and any adjacent vertical barriers such as playground equipment support

legs, curbs or slabs that will contact the surfacing system at the rate of 300 square feet/gallon.

803-2.3.4 Installation.

1. Poured in Place Surfacing: Components of the poured in place surfacing shall be mixed on site in a rotating tumbler to ensure components are thoroughly mixed and are in accordance with manufacturer's recommendations. Installation of surfacing shall be seamless up to 2,000 square feet per day and completely bonded to concrete or sub base. Material shall cover all foundations and fill around all elements penetrating the surface.
2. Cushion Layer: Whenever practical, cushion layer of surfacing material shall be installed in one continuous pour on the same day of up to 2,000 square feet. When a second pour is required, step the seam (see detail) and fully coat the step of the previous work with polyurethane binder to ensure 100% percent bond with new work. Apply adhesive in small quantities so that new cushion layer can be placed before the adhesive dries.
3. Wear Course: Wear Course must be TPV (Thermoplastic Elastomer Vulcanized) rubber granules or approved equal. Wear surface shall be bonded to Cushion Layer. If necessary, additional primer will be used between the cushion layer and Wear Course. Apply adhesive to Cushion Layer in small quantities allowing the Wear Course to be applied before adhesive dries. Surface shall be hand troweled to a smooth, even finish. Except where the Wear Course is composed of differing color patterns, pour shall be continuous and seamless up to 2,000 square feet per day; (Contact Manufacturer's representative for seamless installations in excess of 2,000 square feet). Where seams are required due to color change, size or adverse weather, step configuration will be constructed to maintain Wear Course integrity. The edge of initial pour shall be coated with adhesive and wearing surface mixture shall be immediately applied. Pads with multiple seams are encouraged to include a top coat of urethane before being placed into use. Butt joint seams are not acceptable except for repairs. Under special conditions and with owners written approval seams may be permitted in same color pad. Consult with manufacturer for specific applications.
4. Perimeter: For installations over Existing Concrete, the perimeter must be saw cut to provide a keyway 1" inch deep by 1" inch wide, or formed during the pour, with surfacing rolled down into the void. Primer adhesive must be applied to all sides of the void. When connecting to a concrete curb or border, the inside vertical edge shall be primed with adhesive and the final 2" inches of the cushion layer shall be tapered to allow the wear surface material to be 1.5" inches – 2" inches thick where it joins the concrete edge.
5. Thickness: Construction methods, such as the use of measured screeds or guides shall be employed to ensure that full depth or specified surfacing material is installed. Surfacing system thickness throughout the playground equipment use zone shall be as required to meet the impact attenuation requirements specified herein.

6. Clean up: Manufacturer's installers shall work to minimize excessive adhesive on adjacent surfaces or play equipment. Spills of excess adhesive shall be promptly cleaned.
7. Protection: The safety surface shall be allowed to fully cure in accordance with Manufacturer's instructions. The surface shall be protected by the owner from all traffic during the curing period of 48 hours or as instructed by the Manufacturer.
8. Manufacturer's Services: For poured in place safety surfacing, a manufacturer's representative who is experienced in the installation of playground safety surfacing shall be provided. The representative shall supervise the installation to ensure that the system meets the impact attenuation requirements as specified herein.
9. Security & Waste Disposal: Surface installation crew shall be responsible for the protection of surface during the installation process while on site only. Owner or general contractor shall be responsible for the protection of the surface during the curing period upon completion of the installation and overnight during the installation. Owner or general contractor shall be responsible for having a dumpster on site for all waste and debris. Failure to provide security and a dumpster will result in additional cost.
10. Utilities & Access: Power and water must be available within 300 feet of installation. Site will require tractor-trailer access. In a case where tractor-trailer access is not possible, owner or general contractor shall be responsible for transporting materials from delivering carrier to the installation site.

803-2.4 Engineered Wood Fiber.

803-2.4.1 General.

1. To prevent displacement of the Engineered Wood Fiber (EWF) in high-use areas and reduce maintenance, EWF wear mats must be installed under all swings, tire swings, slide exits, and all other wear areas including sliding poles. This will help to ensure compliance with the Federal Accessibility Law of March 15, 2012.
 - a) Provide bulk Engineered Wood Fiber in areas indicated on plans.
 - b) Provide EWF Safety Surface immediately after installing playground equipment.

803-2.4.2 Materials.

- a) Provide EWF to a compacted depth of approximately 16 inches.
- b) The amount of EWF necessary to provide the approximate depth, after compaction, is as follows:

Quantities shown are for a 1,000 sq. ft. playground:

Depth	Quantity
16"	76 cubic yards

803-2.4.3 Quality Control.

1. Surfacing shall be IPEMA-CERTIFIED Engineered Wood Fiber. Standard wood chips or bark mulch will not be acceptable.
2. Supplier must provide test results for EWF and wear mats for impact attenuation in accordance with ASTM F 1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Results must be provided for new and for 12-year-old Engineered Wood Fiber material.
3. Testing of EWF in accordance with ASTM F 1292 must show G-max values of less than 155G for the 8" thick system, or 120G for the 12" system at 12' drop heights, and HIC values of less than 1,000 for both new and 12-year-old material.
4. Supplier must provide test results for the EWF in accordance with ASTM F 2075 Specification for Engineered Wood Fiber For Use as a Playground Safety Surface Under and Around Playground Equipment.
5. Testing of wear mats in accordance with ASTM F 1292 must show values of less than 200G and HIC values of less than 1,000 for a 3' drop height.
6. Supplier must provide test results in accordance with ASTM F 1951, Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.
7. Supplier must certify that the surface meets the intent of the Americans with Disabilities Act (ADA).
8. Supplier must provide \$10 Million product liability insurance certificate with project owner named as certificate holder, prior to delivery.

803-2.4.4 Installation.

1. Install the EWF, and wear mats in accordance with manufacturer's instructions.
2. Avoid contamination of the EWF with sand, gravel, mud, or native soil.

803-2.4.5 Maintenance.

1. Maintain the EWF in accordance with manufacturer's instructions and the City of San Diego policy for the entire warranty period.

EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP) SECTION A – GENERAL REQUIREMENTS

- 4.1 Nondiscrimination in Contracting Ordinance.** To the “WHITEBOOK”, subsection 4.1.1, paragraph (2), sentence (1), DELETE in its entirety and SUBSTITUTE with the following:

You shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers.

END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

SUPPLEMENTARY SPECIAL PROVISIONS
APPENDICES

APPENDIX A
NOTICE OF EXEMPTION

NOTICE OF EXEMPTION

(Check one or both)

TO: Recorder/County Clerk
P.O. Box 1750, MS A-33
1600 Pacific Hwy, Room 260
San Diego, CA 92101-2400

FROM: City of San Diego
Development Services Department
1222 First Avenue, MS 501
San Diego, CA 92101

Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, CA 95814

Project No.: **S-15021.02.06**

Project Title: **Rolling Hills Neighborhood Park ADA**

Project Location-Specific: Rolling Hills Neighborhood Park, San Diego, CA 92129. This park is located on Alamazon Street south of Madrigal Street within the Rancho Penasquitos Community Planning Area (Council District 5).

Project Location-City/County: San Diego/San Diego

Description of nature and purpose of the Project: Award a civil engineering design services contract only for ADA and park upgrades within the park, including, but not limited to, accessible street parking, pedestrian curb ramps, path of travel improvements, children playground, storm water permanent BMP's, accessible safety surfacing, accessible drinking fountains, shade structure and other miscellaneous improvements to enhance ADA accessibility and provide a playground area. The design of these park upgrades will follow the community's concept plan. This project will also install the new playground equipment that the community will procure and deliver. Design services will include project development team meetings, surveys and mapping, utility data compilation, geotechnical investigation, preliminary and final design and associated deliverables, environmental and permitting and community outreach support services, project management during design, bid and construction support services and associated deliverables, landscape maintenance and establishment period support services, and optional services for geotechnical and storm water permitting support.

Name of Public Agency Approving Project: City of San Diego

Name of Person or Agency Carrying Out Project: City of San Diego, Public Works Department
Michael Ramirez, Project Manager
525 B Street, Suite 750, MS 908A
San Diego, CA, 92101
(619) 533-4111

Exempt Status: (CHECK ONE)

- Ministerial (Sec. 21080(b)(1); 15268);
- Declared Emergency (Sec. 21080(b)(3); 15269(a));
- Emergency Project (Sec. 21080(b)(4); 15269 (b)(c))
- Statutory Exemptions: 15262 (Feasibility and Planning Studies)

Reasons why project is exempt: The City of San Diego conducted an environmental review, which determined the action meets the statutory exemption criteria set forth in CEQA State Guidelines Section 15262 (Feasibility and Planning Studies) in order to approve the design services contract only, which includes soils testing activities for geotechnical investigation/evaluation. The geotechnical investigation is required to comply with all City regulations. The project site is developed within an urban community, and is not located within the City's mapped historical high sensitivity area. Therefore, the design services contract is not anticipated to result in any impacts to sensitive resources.

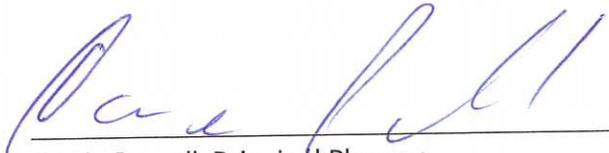
Lead Agency Contact Person: James Arnhart, Senior Planner

Telephone: (619) 533-5275

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a notice of exemption been filed by the public agency approving the project? () Yes () No

It is hereby certified that the City of San Diego has determined the above activity to be exempt from CEQA



Carrie Purcell, Principal Planner



Date

Check One:

- (X) Signed By Lead Agency
() Signed by Applicant

Date Received for Filing with County Clerk or OPR:

APPENDIX B
FIRE HYDRANT METER PROGRAM

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 1 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

1. **PURPOSE**

1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

2.1 All authorities and references shall be current versions and revisions.

2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15

2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986

2.4 California Code of Regulations, Titles 17 and 22

2.5 California State Penal Code, Section 498B.0

2.6 State of California Water Code, Section 110, 500-6, and 520-23

2.7 Water Department Director

Reference

2.8 State of California Guidance Manual for Cross Connection Programs

2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention

2.10 American Water Works Association Standards for Water Meters

2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

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- 3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.
- 3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. **POLICY**

- 4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.
- 4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.
- 4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:
 - a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.
 - b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:
 - 1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.

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2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.
3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).
4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).
5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).
6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.
7. All private fire hydrant meters shall have backflow devices attached when installed.
8. The customer must maintain and repair their own private meters and private backflows.
9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.
10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.

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11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.
 12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.
 13. The outlet shall have a 2 ½ “National Standards Tested (NST) fire hydrant male coupling.
 14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).
- 4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.
- 4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.

4.6 Conditions and Processes for Issuance of a Fire Hydrant Meter

Process for Issuance

- a. Fire hydrant meters shall only be used for the following purposes:
 1. Temporary irrigation purposes not to exceed one year.

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2. Construction and maintenance related activities (see Tab 2).
 - b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.
 - c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.
 - d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.
 - e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.
 - f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.
 - g. After the fees have been paid and an account has been created, the

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meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

4.7 Relocation of Existing Fire Hydrant Meters

- a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as “Hotline”), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter’s relocation.
- b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.
- c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

4.8 Disconnection of Fire Hydrant Meter

- a. After ten (10) months a “Notice of Discontinuation of Service” (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.
- b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

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for removal of the meter.

- c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.
- d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.
- e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. **EXCEPTIONS**

- 5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. **MOBILE METER**

- 6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:

- a) **Vehicle Mounted Meters:** Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

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inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

b) **Floating Meters:** Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

- 1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.
- 2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

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7. **FEE AND DEPOSIT SCHEDULES**

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. These deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. **UNAUTHORIZED USE OF WATER FROM A HYDRANT**

8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.

8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.

8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.

8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

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SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 10 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

- 8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

Water Department Director

- Tabs: 1. Fire Hydrant Meter Application
2. Construction & Maintenance Related Activities With No Return To Sewer
3. Notice of Discontinuation of Service

APPENDIX

Administering Division: Customer Support Division

Subject Index: Construction Meters
Fire Hydrant
Fire Hydrant Meter Program
Meters, Floating or Vehicle Mounted
Mobile Meter
Program, Fire Hydrant Meter

Distribution: DI Manual Holders



Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

Meter Information

Application Date	Requested Install Date:
------------------	-------------------------

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) <u>Zip:</u>	T.B.	G.B. (CITY USE)
Specific Use of Water:		
Any Return to Sewer or Storm Drain, if so, explain:		
Estimated Duration of Meter Use:	<input type="checkbox"/>	<input type="checkbox"/> Check Box if Reclaimed Water

Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ()
*Business license#		*Contractor license#	
A Copy of the Contractor's license OR Business License is required at the time of meter issuance.			
Name and Title of Billing Agent: <small>(PERSON IN ACCOUNTS PAYABLE)</small>			Phone: ()
Site Contact Name and Title:			Phone: ()
Responsible Party Name:			Title:
Cal ID#			Phone: ()
Signature:		Date:	
<small>Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter</small>			

Fire Hydrant Meter Removal Request	Requested Removal Date:
Provide Current Meter Location if Different from Above:	
Signature:	Title: Date:
Phone: ()	Pager: ()

<input type="checkbox"/> City Meter	<input type="checkbox"/> Private Meter
Contract Acct #:	Deposit Amount: \$ 936.00 Fees Amount: \$ 62.00
Meter Serial #	Meter Size: 05 Meter Make and Style: 6-7
Backflow #	Backflow Size: Backflow Make and Style:
Name:	Signature: Date:

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing
Backfilling
Combination Cleaners (Vactors)
Compaction
Concrete Cutters
Construction Trailers
Cross Connection Testing
Dust Control
Flushing Water Mains
Hydro Blasting
Hydro Seeing
Irrigation (for establishing irrigation only; not continuing irrigation)
Mixing Concrete
Mobile Car Washing
Special Events
Street Sweeping
Water Tanks
Water Trucks
Window Washing

Note:

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date

Name of Responsible Party
Company Name and Address
Account Number: _____

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # _____, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego
Water Department
Attention: Meter Services
2797 Caminito Chollas
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619) _____ - _____.

Sincerely,

Water Department

APPENDIX C

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

APPENDIX D

SAMPLE CITY INVOICE WITH SPEND CURVE

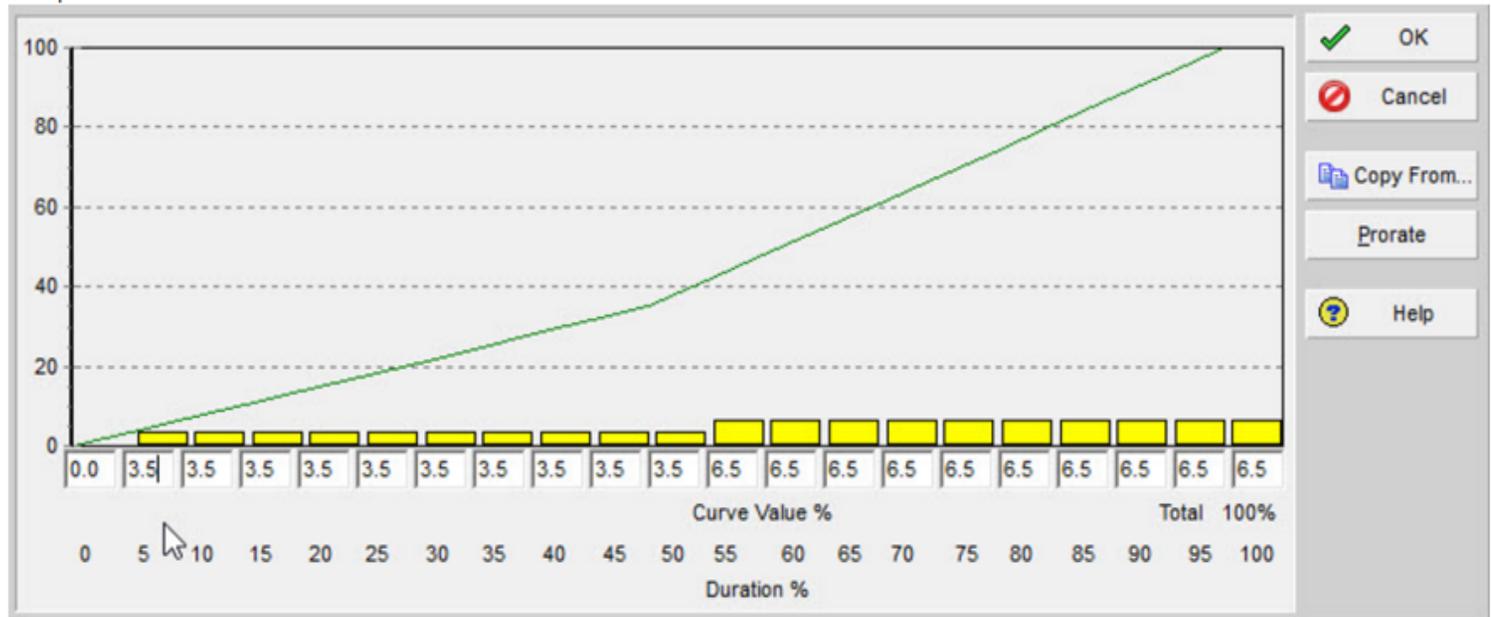
Sample Project Spend Curve

Sample Date Entries Required

Incremental Curve Value
Duration % Increment

0.0%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%
0%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%

Sample Screenshot from Primavera P6



APPENDIX E
LOCATION MAP

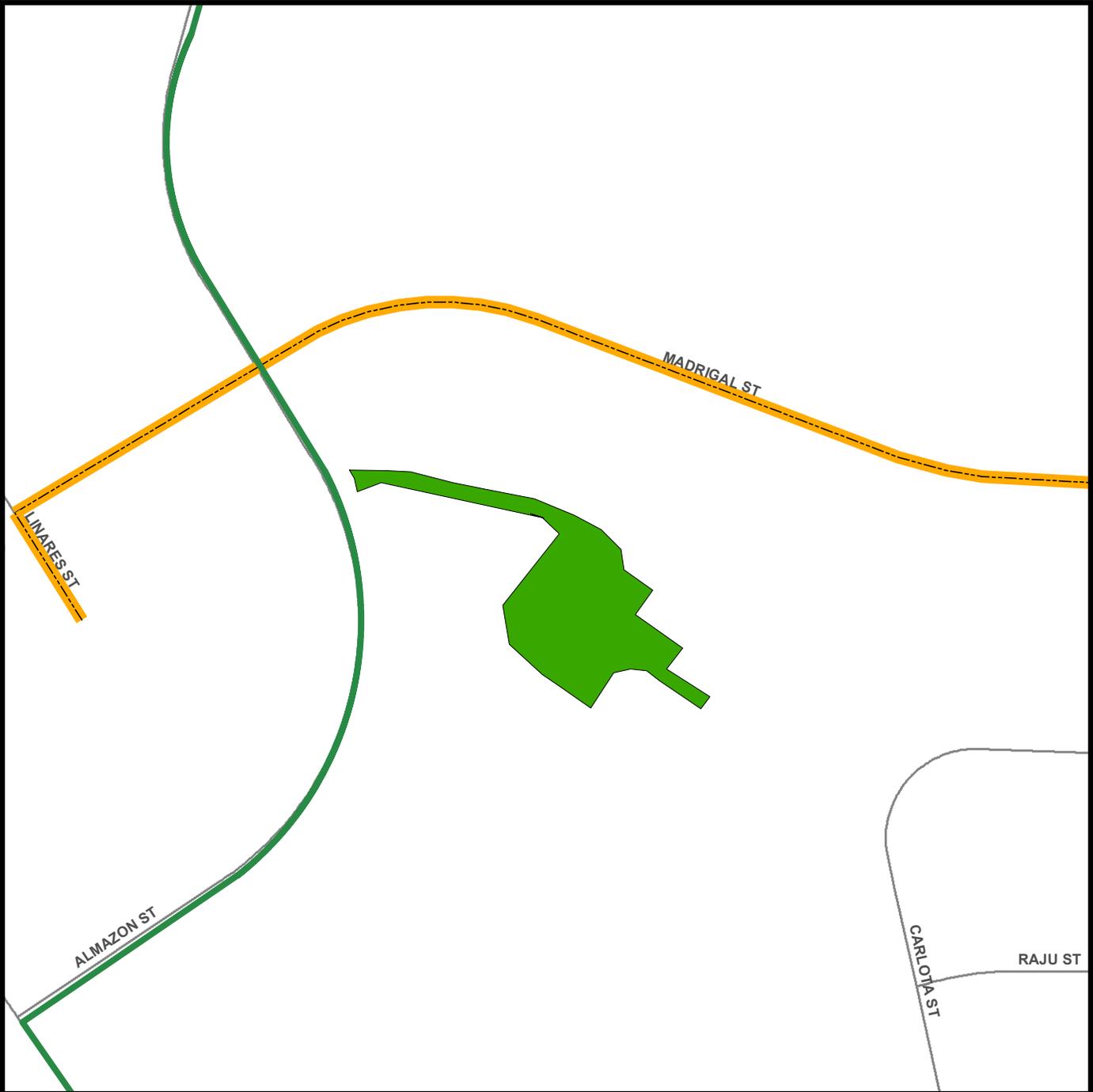
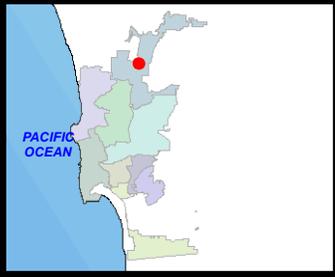
Project Name

SENIOR ENGINEER
 Nikki Lewis
 (619)-533-6653

PROJECT MANAGER
 Michael Ramirez
 (619) 533- 4111

PROJECT ENGINEER
 Mahsima Mohammadi
 (619) 533-5131

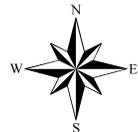
FOR QUESTIONS ABOUT THIS PROJECT
 Call: (619) 533-4207
 Email: engineering@sandiego.gov



Legend

ECP Poly
 TITLE

 Rolling Hills Neighborhood Park ADA



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APPENDIX F

SAMPLE OF PUBLIC NOTICE



CONSTRUCTION NOTICE

PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

The work will consist of:

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
• Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
• This work is anticipated to be complete in your community by December 2016.

How your neighborhood may be impacted:

- Water service to some properties during construction will be provided by a two-inch highline pipe that will run along the curb. To report a highline leak call 619-515-3525.
• Temporary water service disruptions are planned. If planned disruptions impact your property, you will receive advance notice.
• Parking restrictions will exist because of the presence of construction equipment and materials.
• "No Parking" signs will be displayed 72 hours in advance of the work.
• Cars parked in violation of signs will be TOWED.

Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX



CONSTRUCTION NOTICE

PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

The work will consist of:

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
• Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
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• Parking restrictions will exist because of the presence of construction equipment and materials.
• "No Parking" signs will be displayed 72 hours in advance of the work.
• Cars parked in violation of signs will be TOWED.

Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX

To contact the City of San Diego: SD Public Works 619-533-4207 | engineering@sandiego.gov | sandiego.gov/CIP

To contact the City of San Diego: SD Public Works 619-533-4207 | engineering@sandiego.gov | sandiego.gov/CIP

APPENDIX G

ADVANCED METERING INFRASTRUCTURE (AMI) DEVICE PROTECTION

Protecting AMI Devices in Meter Boxes and on Street Lights

The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. **All AMI devices shall be protected per Section 5-2, "Protection", of the 2015 Whitebook.**

AMI technology allows water meters to be read electronically rather than through direct visual inspection by PUD field staff. This will assist PUD staff and customers in managing unusual consumption patterns which could indicate leaks or meter tampering on a customer's property.

Three of the main components of an AMI system are the:

- A. Endpoints, see Photo 1:

Photo 1



- B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:

Photo 2



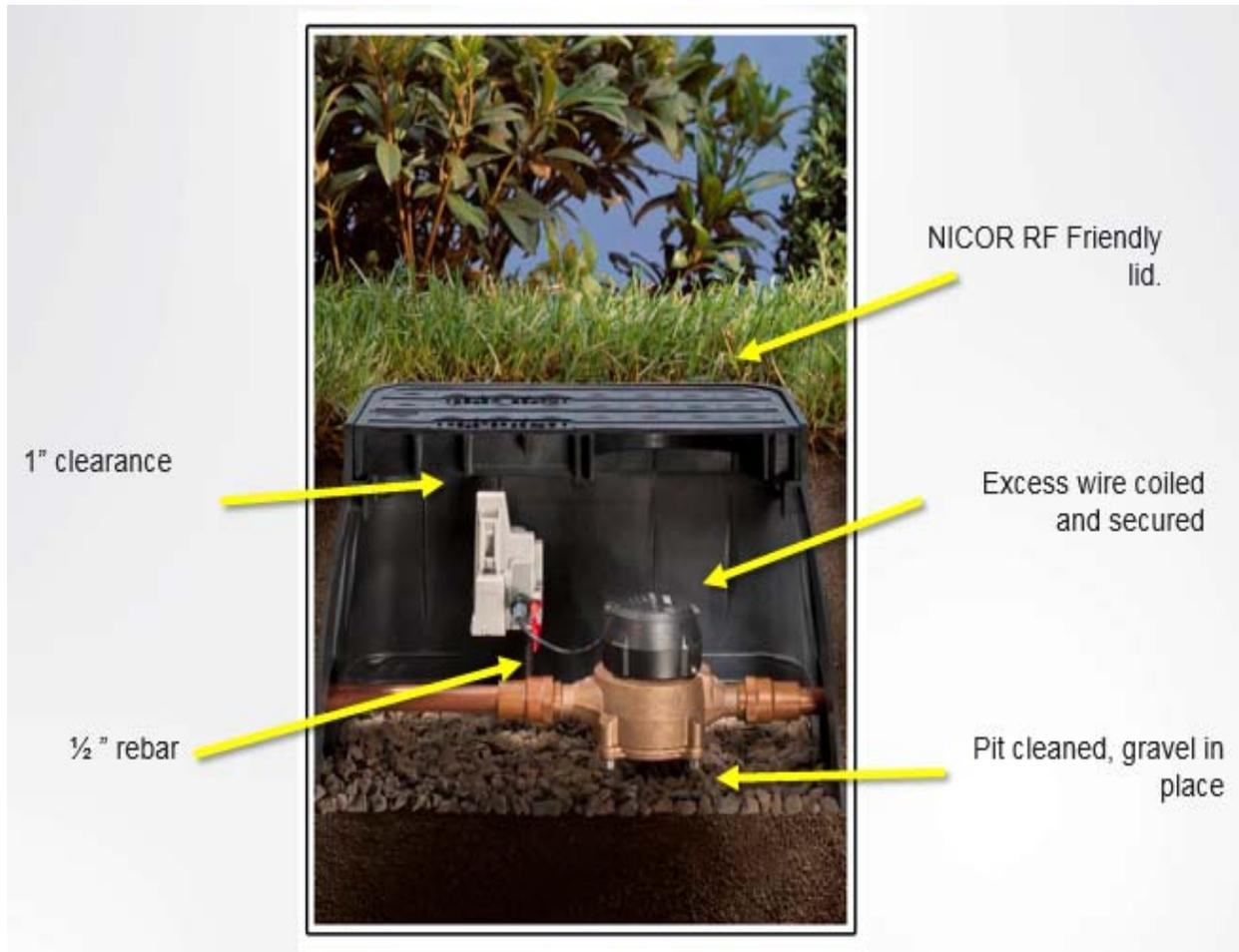
Network Devices, see Photo 3:

Photo 3



AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:

Photo 4



The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document

Photo 5 below shows a typical installation of an AMI endpoint on a water meter.

Photo 5

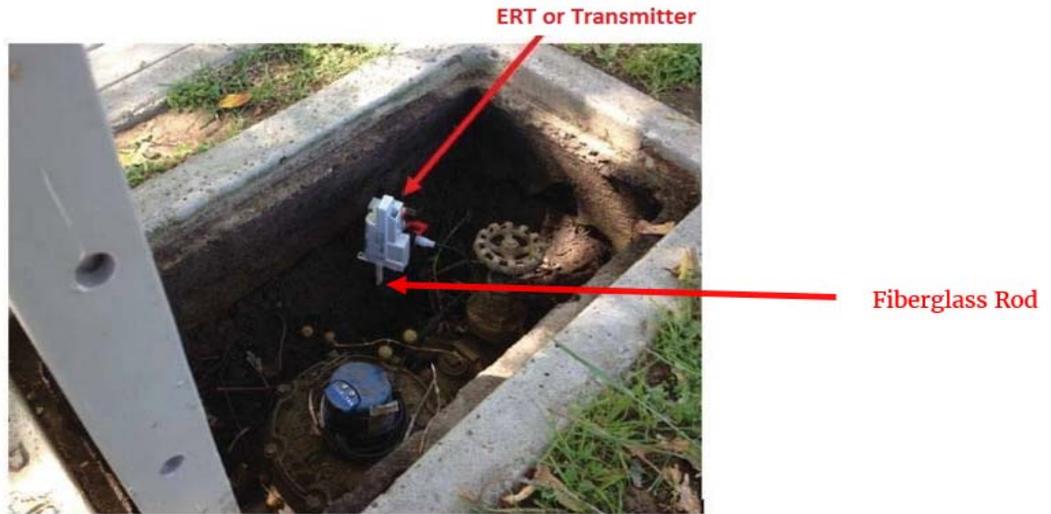


Photo 6 below is an example of disturbance that shall be avoided:

Photo 6



You are responsible when working in and around meter boxes. If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:

Photo 7



Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. **If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.**

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.

Photo 8



Network Device

Photo 9



If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.

APPENDIX H

ROLLING HILLS PARK GEOTECHNICAL REPORT

**REPORT OF GEOTECHNICAL INVESTIGATION
ROLLING HILLS PARK REHABILITATION
CITY OF SAN DIEGO**

Submitted to:
INFRASTRUCTURE ENGINEERING CORPORATION
14271 Danielson Street
Poway, CA 92064

Prepared By:
ALLIED GEOTECHNICAL ENGINEERS, INC.
9500 Cuyamaca Street, Suite 102
Santee, California 92071-2685

February 7, 2017



February 7, 2017

Mr. Patrick Mulvey, P.E.
Project Manager
Infrastructure Engineering Corporation
14271 Danielson Street
Poway, CA 92064

**Subject: REPORT OF GEOTECHNICAL INVESTIGATION
ROLLING HILLS PARK REHABILITATION
CITY OF SAN DIEGO
AGE Project No. 179 GS-16-E**

Dear Mr. Mulvey:

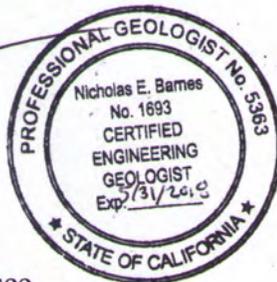
Allied Geotechnical Engineers, Inc. is pleased to submit the accompanying report to present the findings, opinions, and recommendations of a geotechnical investigation that was performed to assist Infrastrucure Engineering Corporation with their design of the subject project.

We appreciate the opportunity to be of service on this project. If you have any questions regarding the contents of this report or need further assistance, please feel free to contact our office.

Sincerely,

ALLIED GEOTECHNICAL ENGINEERS, INC.

Nicholas E. Barnes
Nicholas E. Barnes, P.G., C.E.G.
Senior Geologist



Sani Sutanto

Sani Sutanto, P.E.
Senior Engineer



NEB/SS/TJL:cal
Distr. (1 electronic copy) Addressee

**REPORT OF GEOTECHNICAL INVESTIGATION
ROLLING HILLS PARK REHABILITATION
CITY OF SAN DIEGO**

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Appendices

Appendix A	Field Exploration Program
Appendix B	Laboratory Testing

1.0 INTRODUCTION

Allied Geotechnical Engineers, Inc. (AGE) is pleased to submit this report to present the findings, opinions, and recommendations of a geotechnical investigation conducted to assist Infrastructure Engineering Corporation (IEC) with their design of the facility rehabilitation and upgrades at Rolling Hills Park for the City of San Diego (City). The investigation was performed in conformance with AGE's proposal (revised) dated November 3, 2016, and the subconsultant agreement entered into by and between IEC and AGE on November 21, 2016.

This report has been prepared for the exclusive use of IEC and its design team subconsultants and the City in their design of the project as described herein. The information presented in this report is not sufficient for any other uses or the purposes of other parties.

2.0 SITE AND PROJECT DESCRIPTION

Rolling Hills Park is located on the east side of Alamazon Street in the Rancho Penasquitos community in the City of San Diego (Figure 1 - Location Map). It is our understanding that the scope of the proposed project will include rehabilitation and upgrades to the existing playground area facility, the use of permeable pavement, installation of wheelchair accessible curb ramps. We further understand that the City intends to restore a slope located in the northern portion of the park which has experienced erosional damage due to uncontrolled surface runoff (Figure 2 - Site Plan).

A review of the as-built plans indicates that the original construction of the park was completed in 1979 (City of San Diego, 1979). Park amenities included a ballfield, children's play area, concrete and decomposed granite (DG) walkways, lighting, lawn areas, and landscaping. The scope of work also included uncovering and cleaning the western portion of an existing drainage ditch located on the slope area in the northern portion of the park. Park improvements completed in 1986 (City of San Diego, 1986) included the installation of basketball and handball courts, fencing, concrete walkways, picnic benches, and drainage improvements. Notes on the plans also indicate that the scope of work was to include uncovering and cleaning out the western portion of the concrete lined drainage ditch on the northern slope area.

The original earthwork for the park appears to have been performed in conjunction with the construction of the Penasquitos Glen Unit Nos. 3 and 6 residential subdivisions which overlook the northern and eastern sides of the park. The earthwork included construction of graded slopes which descend from the north and east sides of the residential subdivisions to the park. These slopes vary from 10 feet to nearly 60 feet in height, and were constructed at gradients of up to 1.7:1 (horizontal:vertical). The concrete lined drainage ditch on the northern slope area was likely installed as part of the original slope construction

Site elevations vary from 730 to 800 feet above mean sea level (msl). Nearby land uses include residential developments, schools, public parks and open space.

3.0 OBJECTIVE AND SCOPE OF INVESTIGATION

The objectives of this investigation were to characterize the subsurface conditions at the park site and to develop geotechnical recommendations for use in the design of the currently proposed project. The scope of our investigation included several tasks which are described in more detail in the following sections.

3.1 Information Review

This task involved a review of readily available information pertaining to the park, including the preliminary project plans, as-built utility maps, topographic maps, published geologic literature and maps, and AGE's in-house references.

3.2 Geotechnical Field Exploration

The field exploration and testing program for this project was performed on December 27 and 28, 2016. A total of four (4) soil borings and four (4) percolation test holes were performed at the approximate locations shown on Figure 2. The borings and percolation test holes were advanced using conventional hollow-stem auger drilling methods and manual labor to depths ranging from 3 feet to 11.5 feet below the existing ground surface (bgs). A more detailed description of the drilling and sampling activities, and logs of the borings are presented in Appendix A.

Prior to commencement of the field exploration activities, several site reconnaissance visits were performed to observe existing conditions and to select suitable locations for the borings and test holes. Subsequently, Underground Service Alert (USA) was contacted to coordinate clearance of the proposed boring locations with respect to existing buried utilities. Existing buried utilities which were identified during the utility clearance program include: potable water pipelines; irrigation pipes; sanitary sewer pipelines; storm drains; and electrical conduits.

Percolation testing was performed on December 28, 2016. The testing was performed in accordance with the procedures described in the Appendix F - Storm Water Infiltration/Percolation BMPS of the City of San Diego Guidelines for Geotechnical Report (2011) and Appendix D - Approved Infiltration Rate Assessment Methods of the San Diego Region Model BMP Design Manual (2016).

3.3 Laboratory Testing

Selected soil samples obtained from the borings were tested in the laboratory to verify field classifications and evaluate certain engineering characteristics. The geotechnical laboratory tests were performed in general conformance with the American Society for Testing and Materials (ASTM) or other generally accepted testing procedures.

The laboratory tests included: in-place density and moisture content, maximum density and optimum moisture content, sieve and hydrometer analysis, Atterberg Limits; expansion index, shear strength, and R-value. In addition, representative samples of the onsite soil materials were collected and delivered to Clarkson Laboratories and Supply, Inc. for chemical (analytical) testing to determine soil pH and resistivity, soluble sulfate and chloride concentrations, and bicarbonate content. A brief description of the tests that were performed and the final test results are presented in Appendix B.

4.0 GEOLOGIC CONDITIONS**4.1 Geologic Setting and Site Physiography**

The project study area is located in an area of hilly terrain located northeast of Black Mountain. The published geologic map indicates that the site is underlain by Eocene age sediments. Jurassic age metasedimentary and metavolcanic rocks of the Santiago Peak Volcanics are exposed on hillsides west of the site and on Black Mountain. Man-made fills occur in various locations in the study area.

4.2 Tectonic Setting

Tectonically, the San Diego region is situated in a broad zone of northwest-trending, predominantly right-slip faults that span the width of the Peninsular Ranges and extend offshore into the California Continental Borderland Province west of California and northern Baja California. At the latitude of San Diego, this zone extends from the San Clemente fault zone, located approximately 60 miles to the west, and the San Andreas fault located about 95 miles to the east.

Major active regional faults of tectonic significance include the Coronado Bank, San Diego Trough, San Clemente, and Newport Inglewood/Rose Canyon fault zones which are located offshore; the faults in Baja California, including the San Miguel-Vallecitos and Agua Blanca fault zones; and the faults located further to the east in Imperial Valley which include the Elsinore, San Jacinto and San Andreas fault zones.

4.3 Geologic Units

Based on their origin and compositional characteristics, the soil types encountered in the exploratory borings can be categorized as slough, fill materials, and Mission Valley Formation. A brief description of each unit (in order of increasing age) is presented below.

4.3.1 Fill Materials

Fill materials extending to a maximum depth of 3-feet bgs were encountered in borings B-1 and B-2, and percolation holes P-1 through P-4. The upper 12- to 20-inch portion of the fill materials are composed of soil materials derived from erosion of the slope on the north side of the park. The fill was overlain by grass and organic lawn soil up to 1-foot in thickness at all of the boring and test hole locations.

The fill materials generally consist of light gray to grayish brown, wet, silty sands and clayey sands, and locally contains organic debris. The fill appears to have been derived from the Mission Valley Formation.

4.3.2 Mission Valley Formation

The Mission Valley Formation was encountered below fill materials in all the borings and test holes. All borings and test holes were terminated in this formation. The Mission Valley Formation consists of marine, lagoonal, and non-marine sandstone. Based on fossil assemblages, the Mission Valley Formation has been assigned an upper Eocene age (Kennedy and Peterson, 1975). The sandstone member is typically light gray, fine to medium grained, and friable. Clay lenses and cobble-conglomerate tongues similar to the underlying Stadium Conglomerate may also be encountered in the formation.

Formational soils encountered in our borings and test holes generally consist of white to light gray to grayish brown, damp, fine-grained silty sandstone. The sandstone varied from uncemented to locally strongly cemented. In boring B-1 a greenish gray, highly plastic clay was encountered below depth of 9 feet bgs to the maximum depth of exploration of 11.5 feet bgs. The Mission Valley Formation was found to be generally damp and in a dense to very dense/stiff condition at all of our test locations.

4.3 **Groundwater**

At the time of our field investigation no groundwater and/or seepage was encountered in the borings and test holes. Formational materials encountered in the borings generally possess moderate permeability characteristics.

A review of the Geotracker website (www.Geotracker.com) did not reveal any nearby sites containing pertinent groundwater elevation data. Based on available data, the depth of the regional groundwater table beneath the project site is estimated to be well below the anticipated depths of excavation for the proposed upgrades for the park. It must be noted, however, that localized perched water conditions may be encountered, especially during the wet (rainy) season.

5.0 DISCUSSIONS, OPINIONS AND RECOMMENDATIONS

5.1 Potential Geologic Hazards

5.1.1 Faulting

The project site is not crossed by any known (mapped) active or potentially active faults. For the purpose of this project, we consider the Rose Canyon fault zone (RCFZ) to represent the most significant seismic hazard. The RCFZ is a complex set of anastomosing and en-echelon, predominantly strike slip faults that extend from off the coast near Carlsbad to offshore south of downtown San Diego (Treiman, 1993). Previous geologic investigations on the RCFZ in the Rose Creek area (Rockwell et. al., 1991) and in downtown San Diego (Patterson et. al., 1986) found evidence of multiple Holocene earthquakes. Based on these studies, several fault strands within the RCFZ have been classified as active faults, and are included in Alquist-Priolo Special Studies Zones. In San Diego Bay, this fault zone is believed to splay into multiple, subparallel strands; the most pronounced of which are the Silver Strand, Spanish Bight and Coronado Bank faults. The project site is not located within an Alquist-Priolo Earthquake Study Zone.

The location of the project site in relation to the active faults in the region is shown on the Regional Fault Map (Figure 3). California Department of Transportation ARS Online (V2.3.08) was used to approximate the distance of the closest ten (10) known faults to the project site. A summary of seismic source characteristics for faults that present the most significant seismic hazard potential to the project site is presented in Table 1 on the next page.

Table 1
Summary of Seismic Source Characteristics

Fault	Maximum Magnitude (MMax)	Peak Site Acceleration (g)	Closest Distance to Site (km)
Rose Canyon fault zone (Del Mar section)	6.8	0.168	20.037
Elsinore (Julian)	7.7	0.141	39.141
Elsinore (Temecula)	7.7	0.141	39.157
Rose Canyon fault zone (San Diego section)	6.8	0.156	21.884
Rose Canyon fault zone (Oceanside section)	6.8	0.153	22.295
Coronado Bank (alt2)	7.4	0.115	42.545
Rose Canyon fault zone (Silver Strand section-Spanish Bight fault)	6.8	0.123	28.571
Rose Canyon fault zone (Silver Strand section-Downtown Graben fault)	6.8	0.116	30.517
Elsinore (Glen Ivy) rev	7.7	0.087	72.072
Elsinore (Coyote Mountain)	7.7	0.085	74.008

It is our opinion that the major seismic hazard affecting the park site would be seismic-induced ground shaking. The site will likely be subject to moderate to severe ground shaking in response to a local or more distant large magnitude earthquake occurring during the life of the proposed facilities. For project design purposes, we recommend that the RCFZ be considered as the dominant seismic source.

5.1.2 Fault Ground Rupture & Ground Lurching

The project site is not located astride or near any known (mapped) active or potentially active faults (Kennedy, 1975; City of San Diego, 2008). Therefore, the potential for fault ground rupture at the site is considered insignificant.

5.1.3 Soil Liquefaction

Seismically-induced soil liquefaction is a phenomenon in which loose to medium dense, saturated granular materials undergo matrix rearrangement, develop high pore water pressure, and lose shear strength due to cyclic ground vibrations induced by earthquakes or other means.

The project site is underlain by very dense formational material which is not considered susceptible to seismic-induced soil liquefaction or ground settlement. Furthermore, a review of the State of California Seismic Hazard Zones (2009) indicates that the site is not located within an area that is considered susceptible to soil liquefaction during a seismic event.

5.1.4 Landslides

An ancient landslide is mapped north of Rolling Hills Park (Kennedy and Peterson, 1975; Kennedy and Tan, 2008; City of San Diego, 2008). This landslide is mapped in an area which has since been developed as a residential subdivision. The mapped limits of this landslide do not cross the boundaries of the park, and in our opinion landsliding does not represent a significant hazard.

5.1.5 Lateral Spread Displacement

The project site has very low susceptibility to liquefaction, therefore, the risk of lateral spread displacement during a seismic event is considered remote.

5.1.6 Differential Seismic-Induced Settlement

Differential seismic settlement occurs when seismic shaking causes one type of soil to settle more than another type. It may also occur within a soil deposit with largely homogeneous properties if the seismic shaking is uneven due to variable geometry or thickness of the soil deposit. Based on the results of our investigation, it is our opinion that there is a low to negligible potential of differential settlement at the project site.

5.1.7 Secondary Hazards

The distance from the coastline, elevation of the site and absence of nearby large open bodies of water precludes the risk of damages resulting from tsunamis and/or seiches. The project study area is not located within the 100- and 500-year flood zone (FEMA Flood Insurance Rate Map, 2012). It is our opinion that the potential of property damage due to flooding is remote.

5.2 Soil Corrosivity

In accordance with the City of San Diego Water Facility Design Guidelines, Book 2, Chapter 7, soil is generally considered aggressive to concrete if its chloride concentration is greater than 300 parts per million (ppm) or sulfate concentration is greater than 1,000 ppm, or if the pH is 5.5 or less.

Analytical testing was performed on a representative sample of the onsite soil materials to determine pH, resistivity, soluble sulfate, chlorides and bicarbonates content. The tests were performed in accordance with California Test Method Nos. 643, 417 and 422. A summary of the test results is presented in Table 2 below. Copies of the analytical laboratory test data reports are included in Appendix B.

**Table 2
Summary of Corrosivity Test Results**

	pH	Resistivity (ohm-cm)	Sulfate Conc. (ppm)	Chloride Conc. (ppm)	Bicarbonates Conc. (ppm)
B-2 Sample No. 3 @7'-8'	8.3	360	150	650	22
B-3 Sample No. 3 @7'-8'	9.2	990	27	190	39
B-4 Sample No. 1 @3'-4'	7.6	330	160	829	40

The test results indicate that the Mission Valley Formation is highly aggressive against concrete. Therefore, we recommend that Type V Portland Cement Concrete (high sulfate resistance) be used for proposed facilities at the project site. It should be noted here that the most effective way to prevent sulfate attack is to keep the sulfate ions from entering the concrete in the first place. This can be done by using mix designs that give a low permeability (mainly by keeping the water/cement ratio low) and, if practical, by placing moisture barriers between the concrete and the soil.

AGE does not practice in the field of corrosion engineering. In the event that corrosion sensitive facilities are planned, we recommend that a corrosion engineer be retained to perform the necessary corrosion protection evaluation and design.

5.3 Expansive Soil

Based on visual observations and the laboratory test results, the majority of on-site materials are considered to have a low to moderate expansion potential.

5.4 Subsurface Conditions & Infiltration Rate

The percolation testing was performed in formational materials at each of the test hole locations. A 4-inch diameter perforated well casing backfilled with pea gravel was installed at each of the test hole locations. A summary of the percolation test results is shown in Table 3 below.

Table 3
Summary of Percolation Test Results

Test Hole ID	Depth (inches)	Diameter (inches)	Infiltration Rate (inch per hour)
P-1	35	7	0.368
P-2	45	7	1.497
P-3	43.5	7	0.360
P-4	44	7	1.034

Based on the percolation test results, it is our opinion that the subsurface materials will allow for stormwater infiltration. We recommend that an infiltration rate of 0.5 inch per hour be used for design purposes.

5.5 Permeable Pavement

There are three primary considerations for the design of permeable pavement: amount of rainfall expected, pavement characteristics, and underlying soil properties. As a general rule, depending on the amount of rainfall anticipated, soils with infiltration rate of 0.5 or faster are considered suitable for subgrade under pervious pavements. Our test results indicate that the area of the proposed permeable pavement is underlain by soil materials with infiltration rate of 0.5.

It must also be noted that natural runoff will be higher in areas with silty and clayey soils, even with natural ground cover. For design purposes, the total drawdown time (the time until 100% of the storage capacity has been recovered) should be as short as possible, and generally should not exceed five days.

5.6 Pavement Design Recommendations

For the design of the pavement section we have utilized the design procedures outlined in Asphalt Institute MS-1 and MS-23, and Portland Cement Association EB068. AGE performed R-value (CT 301) test for the design of the pavement section.

Based on the laboratory test results and our experience with similar soil types, we have assumed a minimum R-value of 25 for the subgrade soils and 78 for the Class 2 base materials in our pavement section design analysis.

A summary of the recommended pavement sections is presented in Table 4 on the next page. These pavement sections assume a pavement life of approximately 20 years with normal maintenance.

**Table 4
Recommended Pavement Sections**

TRAFFIC TYPE	DESIGN LOAD	REINFORCED P.C.C. PAVEMENT	A.C. PAVEMENT	
			A.C.	CLASS II AGGREGATE BASE (min R-value of 78)
Parking Aisles & Driveway	TI = 4.5	6"	3.0"	4.0"

- NOTES:
- (1) Mix design for Portland Cement Concrete and asphalt concrete be prepared by an engineering company specializing in this type of work, and that the paving operations be inspected by a qualified testing laboratory.
 - (2) Aggregate base course should conform to the requirements of the Caltrans Standard Specifications.
 - (3) Prior to the construction of the pavement sections, R-value tests should be performed on representative samples of the subgrade soil materials to verify the R-value assumes for the design of the pavement sections.

P.C.C. pavement should be constructed with thickened edges. Thickened edges should be at least 1.2 times the pavement thickness, and taper back to the recommended slab thickness three feet behind the edge of the slab. To control the location and spread of concrete shrinkage cracks, it is recommended that crack control joints (weakened plane joints) be included in the design of the concrete pavement. Crack control joints should be constructed at a spacing distance, in feet, of not less than three times the recommended slab thickness in inches, and should be sealed with an appropriate sealant to prevent migration of water through the control joint to the subgrade materials.

It is recommended that all structural pavement sections be constructed in accordance with the guidelines and procedures set forth in Section 302 of the “Green Book”. Both concrete and asphalt pavement sections should be placed on a prepared subgrade. We recommend that the upper 24 inches of the subgrade and aggregate base be uniformly compacted to a minimum of 95 percent of maximum dry density as determined in the laboratory by the ASTM D1557 testing procedures.

We recommend that adequate surface drainage be provided to reduce ponding and infiltration of water in the subgrade materials. All paved areas should have a minimum gradient of 1 percent. As much as possible, irrigated areas next to pavement should be avoided; otherwise subdrains should be used to drain the areas to appropriate outlets. It is important to provide adequate drainage to reduce ponding and possible future distress of the pavement sections.

5.7 Slope Stability Analysis

The existing slope along the north side of the park varies from 10 feet to nearly 60 feet in vertical height. The average gradient of the slope is approximately 1.7:1 (horizontal:vertical). Mature eucalyptus and pine trees are present on the slope, but the slope face is mostly bare dirt with only sparse slope coverings. A concrete lined drainage ditch originally descended the slope from east to west, emptying into a sidewalk underdrain at Alamazon Street.

Formational materials of the Mission Valley Formation are exposed in the lower and middle portions of the slope, whereas the upper portions of the slope appear to be comprised of man-made fill. The fill was likely placed during the earthwork phase of construction for the Penasquitos Glens Unit Nos. 3 and 6 residential subdivisions. Documentation pertaining to the original placement of the fill materials is unavailable.

Ongoing slope erosion has caused gullying on the slope face and undermining of the drainage ditch at several locations. The eroded soils are deposited on the lower portions of the slope and against the rear of the handball court. Portions of the drainage ditch have failed, and remaining portions of the ditch are partially filled with eroded soil. No evidence of deep-seated slope failure was observed.

The slope erosion has predominantly resulted from direct rainfall. We did not observe indications of uncontrolled runoff being directed onto the slope from upslope residences.

AGE performed a slope stability analysis of the existing slope using the computer program FLAC/Slope Version 8.0 (ITASCA Consulting Group, Inc.). The stability analyses were performed using “Shear Strength Reduction Technique” which is applied to the factor-of-safety calculations by progressively reducing the shear strength of the material to bring the slope to a state of limiting equilibrium. A series of simulations were performed using trial values to reduce the cohesion (c) and friction angle (ϕ) until slope failures occur.

The location of cross section A-A’ which was used to perform the analyses is shown on Figure 2. The parameters of the soil materials used in the analyses are based on the results of direct shear tests, correlations with published information, and engineering judgement based on our experience with similar materials (refer to Table 5). The slope stability analysis and slope configuration is shown on Figures 4A & B. The results of the stability analyses are summarized in Table 6.

Table 5
Summary of Material Properties

Material	Unit Weight (γ) (pcf)	Cohesion (c) (psf)	Shear Angle (ϕ) (degree)
Fill: Silty Sand/Clayey Sand	110	0	35
Mission Valley Formation	110	400	30

**Table 6
Summary of Slope Stability Analyses Results**

Cross-Section	Factor of Safety (F.S.)	
	Without External Loads	With Seismic Load ⁽¹⁾
A-A'	1.94	1.42

NOTES:

(1) Seismic load is based on yield acceleration of $0.265g$ ($2/3$ of PGA_M).

The lowest calculated factor of safety corresponding to the critical sliding surface with no external load applied to the slope is 1.94. The generally accepted minimum factor of safety is 1.5. The lowest calculated factor of safety corresponding to seismically loaded slope is 1.42. The generally accepted minimum factor of safety is 1.2. Therefore, it is our opinion that the existing slope configuration may be considered stable under both static and dynamic loading conditions.

We recommend that the City perform a repair of the portions of the slope drainage ditch that are broken or undermined. Accumulated debris in the drainage ditch should be cleared. AGE further recommended that the City conducts regular inspection and maintenance in order to maintain effectiveness of the brow ditch. To reduce the potential for slope/soil erosion, we recommend that the face of the slope be planted with appropriate vegetation.

5.8 Summary

Infiltrated water is anticipated to flow in a west to southwesterly direction toward a small unnamed natural drainage which trends northwesterly from the intersection of Penasquitos Drive and Alamazon Street. The City should verify the presence of trenches in close proximity to any proposed LID facilities and/or deep trenches which may intercept the flow of the infiltrated water from LID facilities.

The project site lies within the La Jolla Hydrologic Subarea of the Solana Beach Hydrologic Area of the San Dieguito Hydrologic Unit as designated by the California Regional Water Quality Control Board (CRWQCB), San Diego Region 9. Groundwater in the Solana Beach Hydrologic Area has beneficial use for municipal supply, and beneficial agricultural and industrial service supply uses. The proposed storm water infiltration is not anticipated to adversely impact the groundwater quality.

Vertical distance to the regional groundwater table is anticipated to be greater than 10 feet. A search of the Geotracker data base does not reveal the presence of any water supply wells within 100 feet of the project site.

6.0 CONSTRUCTION-RELATED CONSIDERATIONS**6.1 Construction Dewatering**

The depth of the local groundwater table is expected to be well below the anticipated depth of the proposed excavations for this project. No groundwater and/or seepage was encountered in any of our soil borings and percolation test holes. We therefore do not anticipate the need for dewatering of excavations made during construction. The contractor should, however, anticipate the possible need for sump pumps in the event that localized perched water conditions are encountered during construction. The design, installation, and operation of any construction dewatering measures necessary for the project shall be the sole responsibility of the contractor.

6.2 Temporary Shoring

In the event that excavations extend more than 4 feet below the ground surface, prevailing Federal and Cal OSHA safety regulations require that the excavation be either sloped (if sufficient construction space or easement is available), shored, or braced. Design and construction of temporary shoring should be the sole responsibility of the contractor.

Settlement

Settlement of existing street improvements and/or utilities adjacent to the shoring may occur in proportion to both the distance between shoring system and adjacent structures or utilities and the amount of horizontal deflection of the shoring system. Vertical settlement will be maximum directly adjacent to the shoring system, and decreases as the distance from the shoring increases. At a distance equal to the height of the shoring, settlement is expected to be negligible. Maximum vertical settlement is estimated to be on the order of 75 percent of the horizontal deflection of the shoring system. It is recommended that shoring be designed to limit the maximum horizontal deflection to 1-inch or less where structures or utilities are to be supported.

It is recommended that pre- and post-construction surveys be conducted to document existing site conditions. Documentation should include photographic and video surveys of the existing facilities and site improvements, as well as field surveys of building floors and pavement structures. We further recommend that a weekly survey of existing utilities be performed during the construction phase.

Lateral Earth Pressures

Temporary shoring should be designed to resist the pressure exerted by the retained soils and any additional lateral forces due to loads placed near the top of the excavation. For design of braced shorings supporting fill materials, the recommended lateral earth pressure should be $32H$ psf, where H is equal to the height of the retained earth in feet. For braced shoring supporting Mission Valley Formation, the recommended lateral earth pressures may be reduced to $20H$ psf. Any surcharge loads would impose uniform lateral pressure of $0.3q$, where " q " equals the uniform surcharge pressure. The surcharge pressure should be applied starting at a depth equal to the distance of the surcharge load from the top of the excavation. In the event that the bottom of the excavation is located below the groundwater level, hydrostatic pressure should be added to the lateral loads.

The recommended lateral earth pressures have been prepared based on the assumptions that the shored earth is level at the surface and that the shoring system is temporary in nature.

Lateral Bearing Capacity

Resistance to lateral loads will be provided by passive soil resistance. The allowable passive pressure for the fill materials may be assumed to be equivalent to a fluid weighing 200 pcf. Allowable lateral bearing pressure in fill material should not exceed 2,000 psf. Allowable passive pressure for the Mission Valley Formation may be assumed to be equivalent to a fluid weighing 300 pcf, with maximum allowable lateral bearing pressure of 3,000 psf.

6.3 Environmental Considerations

The scope of AGE's investigation did not include the performance of a Phase I Environmental Site Assessment (Phase I ESA) to evaluate the possible presence of soil and/or groundwater contamination beneath the project site. During our subsurface investigation soil samples were field screened for the presence of volatile organics using a RAE Systems MiniRAE 3000 organic vapor meter (OVM). The field screening did not reveal elevated levels of volatile organics in the samples.

In the event that hazardous or toxic materials are encountered during the construction phase, the contractor should immediately notify the City and be prepared to handle and dispose of such materials in accordance with current industry practices and applicable Local, State and Federal regulations.

7.0 GENERAL CONDITIONS**7.1 Post-Investigation Services**

Post-investigation geotechnical services are an important continuation of this investigation, and we recommend that the City's Materials Testing Laboratory performs the necessary geotechnical observation and testing services during construction. In the event that the City is unable to perform said services, it is recommended that our firm be retained to provide the services.

Sufficient and timely observation and testing should be performed during excavation, backfilling and other related earthwork operations. The purpose of the geotechnical observation and testing is to correlate findings of this investigation with the actual subsurface conditions encountered during construction and to provide supplemental recommendations, if necessary.

7.2 Uncertainties and Limitations

The information presented in this report is intended for the sole use of IEC and other members of the project design team and the City for project design purposes only and may not provide sufficient data to prepare an accurate bid. The contractor should be required to perform an independent evaluation of the subsurface conditions at the project site prior to submitting his/her bid.

AGE has observed and investigated the subsurface conditions only at selected locations in the project study area. The findings and recommendations presented in this report are based on the assumption that the subsurface conditions beneath the park do not deviate substantially from those encountered in the exploratory soil borings. Consequently, modifications or changes to the recommendations presented herein may be necessary based on the actual subsurface conditions encountered during construction.

California, including San Diego County, is in an area of high seismic risk. It is generally considered economically unfeasible to build a totally earthquake-resistant project and it is, therefore, possible that a nearby large magnitude earthquake could cause damage at the project site.

Geotechnical engineering and geologic sciences are characterized by uncertainty. Professional judgments and opinions presented in this report are based partly on our evaluation and analysis of the technical data gathered during our present study, partly on our understanding of the scope of the proposed project, and partly on our general experience in geotechnical engineering.

In the performance of our professional services, we have complied with that level of care and skill ordinarily exercised by other members of the geotechnical engineering profession currently practicing under similar circumstances in southern California. Our services consist of professional consultation only, and no warranty of any kind whatsoever, expressed or implied, is made or intended in connection with the work performed. Furthermore, our firm does not guarantee the performance of the project in any respect.

AGE does not practice or consult in the field of safety engineering. The contractor will be responsible for the health and safety of his/her personnel and all subcontractors at the construction site. The contractor should notify the City if he or she considers any of the recommendations presented in this report to be unsafe.

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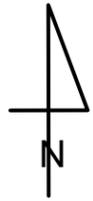
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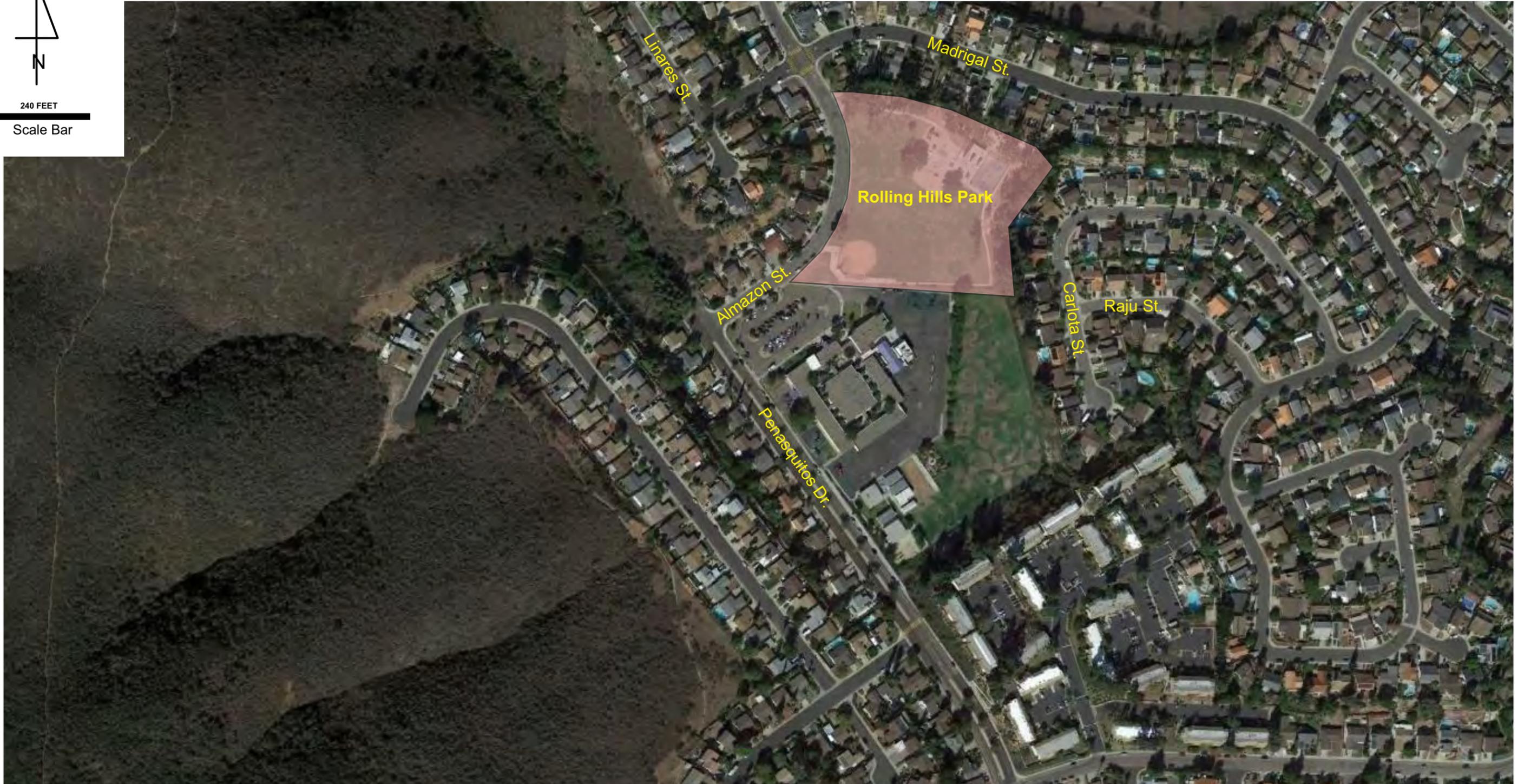
USGS, Seismic Design Maps, 2016.

FIGURES



240 FEET

Scale Bar



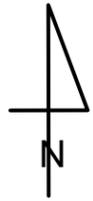
ROLLING HILLS PARK REHABILITATION

LOCATION MAP

**PROJECT NO.
179 GS-16-E**

ALLIED GEOTECHNICAL ENGINEERS, INC.

FIGURE 1



60 FEET

Scale Bar



	Approximate percolation test location
	Approximate Boring location
	Approximate Location of Cross Section A-A'

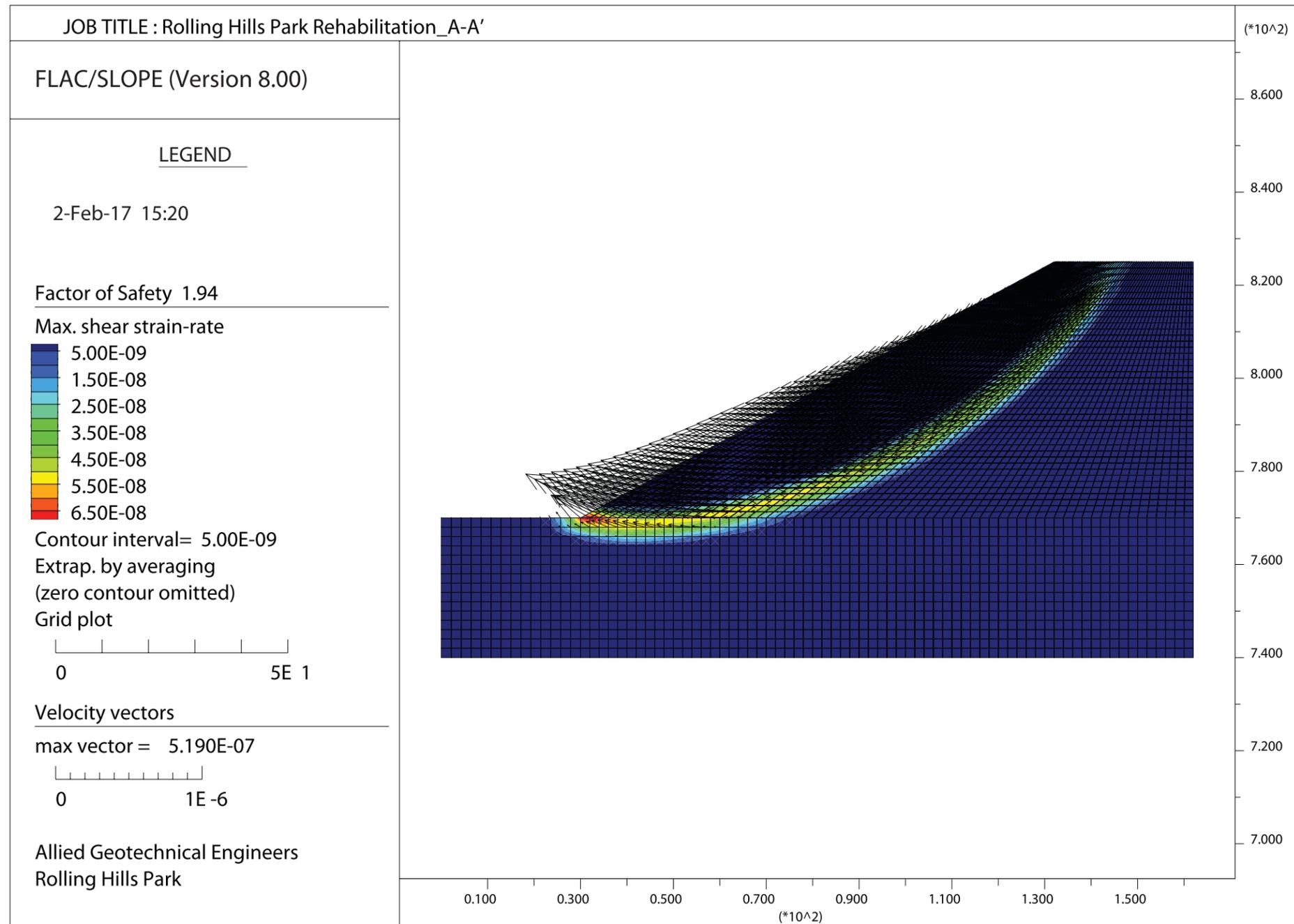
ROLLING HILLS PARK REHABILITATION

SITE PLAN

**PROJECT NO.
179 GS-16-E**

ALLIED GEOTECHNICAL ENGINEERS, INC.

FIGURE 2



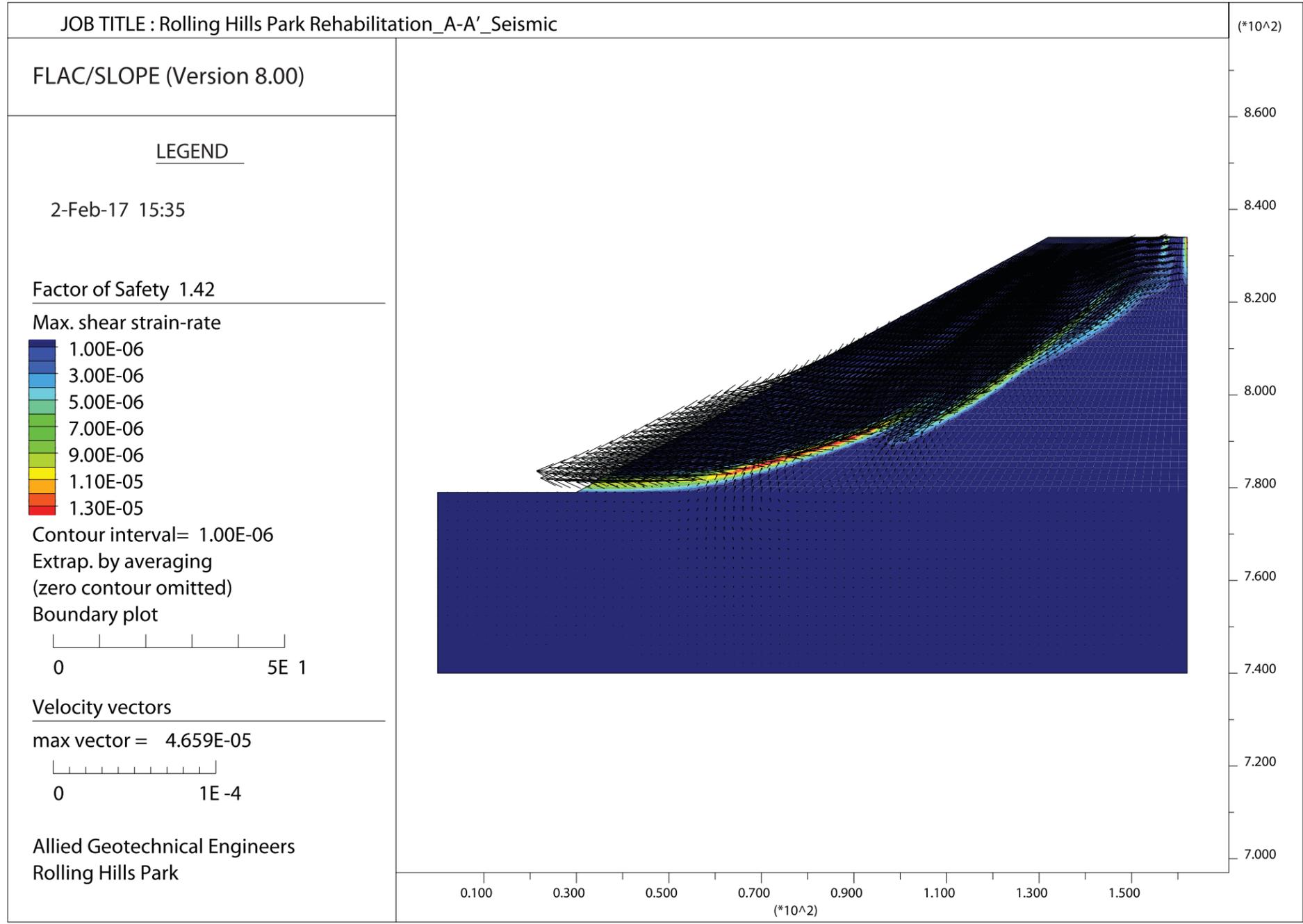
ROLLING HILLS PARK REHABILITATION

SLOPE STABILITY ANALYSIS

**PROJECT NO.
 179 GS-16-E**

ALLIED GEOTECHNICAL ENGINEERS, INC.

FIGURE 4A



ROLLING HILLS PARK REHABILITATION

SLOPE STABILITY ANALYSIS

**PROJECT NO.
179 GS-16-E**

ALLIED GEOTECHNICAL ENGINEERS, INC.

FIGURE 4B

APPENDIX A

FIELD EXPLORATION PROGRAM

APPENDIX A

FIELD EXPLORATION PROGRAM

The field exploration and testing program for this project was performed on December 27 and 28, 2016. A total of four (4) soil borings and four (4) percolation test holes were performed at the approximate locations shown on Figure 2. The borings and percolation test holes were advanced using conventional hollow-stem auger drilling methods and manual labor to depths ranging from 3 feet to 11.5 feet below the existing ground surface (bgs). The borings were performed with a CME 75 truck-mounted drill rig. A Key to Logs is presented on Figures A-1 and A-2, and the boring logs are presented on Figures A-3 thru A-6.

Prior to commencement of the field exploration activities, several site visits were performed to observe existing conditions and to select suitable locations for the borings and test holes. Subsequently, Underground Service Alert (USA) was contacted to coordinate clearance of the proposed boring and test hole locations with respect to existing buried utilities.

During drilling, Standard Penetration Tests (SPT) were performed at selected depth intervals. The SPT tests involve the use of a specially manufactured "split spoon" sampler which is driven into the soils at the bottom of the borehole by dropping a 140-pound weight from a height of 30 inches. The number of blows required to penetrate each 6-inch increment was counted and recorded on the field logs, and have been used to evaluate the relative density and consistency of the materials. The blow counts were subsequently corrected for sample type, hammer model, groundwater and surcharge. The corrected blow counts are shown on the boring logs.

Relatively undisturbed samples were obtained by driving a 3-inch (OD) diameter standard California sampler with a special cutting tip and inside lining of thin brass rings into the soils at the bottom of the borehole. The sampler is driven a distance of 12 inches into the soils at the bottom of the borehole by dropping a 140-pound weight from a height of 30 inches. A 6-inch long section of the soil samples that were retained in the brass rings were extracted from the sampling tube and transported to our laboratory in close-fitting, waterproof containers. The samples were field screened for the presence of volatile organics using a RAE Systems MiniRAE 3000 organic vapor meter (OVM). The OVM readings are indicated on the boring logs.

Percolation testing was performed on December 28, 2016. The testing was performed in accordance with the procedures described in the Appendix F - Storm Water Infiltration/Percolation BMPS of the City of San Diego Guidelines for Geotechnical Report (2011) and Appendix D - Approved Infiltration Rate Assessment Methods of the San Diego Region Model BMP Design Manual (2016).

The testing procedure involved the placement of water to an approximate elevation of 6 to 8 inches above the top of the pea gravel in each test hole. As the water dissipated through the soil at the bottom of the test holes, measurements were then taken to evaluate the discharge rate over a minimum time period of 4 hours. The percolation rate was calculated based on the average rate of discharge.

Following completion of the drilling and sampling activities, the borings were backfilled using bentonite chips and soil cuttings to approximately 12 inches below the ground surface. Borings performed in lawn areas were capped with a grass plug, and borings performed in dirt areas were capped with on-site soils. Percolation test holes were backfilled using soil cuttings and were capped with a grass plug.

KEY TO LOG OF BORING

DEPTH (FEET)	SAMPLES	BLOW COUNTS (BLOWS/FOOT)	OVM READING (PPM)	GRAPHIC LOG	SOIL DESCRIPTION	FIELD MOISTURE (% DRY WT.)	DRY DENSITY (PCF)	REMARKS
1								
2								
3	1							
4					Approximate interval of bulk sample			
5								
6								
7	2							
8		16			Approximate interval of Standard California Sampler (SCS).			
9								
10					Number of blows required to advance sampler for the last foot, or distance indicated. Blow counts shown on boring logs have been corrected for dimensions of sampler, sample and ground water depth, and hammer type.			
11	3	18						
12					Approximate interval of Standard Penetration Test (SPT).			
13								
14								
15								
16								
17								
18								
19								
(KEY TO LOG OF BORING CONTINUED ON FIGURE A-2)								
PROJECT NO. 179 GS-16-E					ALLIED GEOTECHNICAL ENGINEERS, INC.			FIGURE A-1

KEY TO LOG OF BORING (CONTINUED)

DEPTH (FEET)	SAMPLES	BLOW COUNTS (BLOWS/FOOT)	OVM READING (PPM)	GRAPHIC LOG	SOIL DESCRIPTION	FIELD MOISTURE (% DRY WT.)	DRY DENSITY (PCF)	REMARKS
1					-? — —?— APPROXIMATE GEOLOGIC CONTACT			
2				[Horizontal lines]	FILL			
3				[Dotted pattern]	SAND			
4				[Vertical lines]	SILT			
5				[Diagonal lines]	CLAY			
6								
7								
8								
9								
10					<u>GENERAL NOTES</u>			
11					1. Approximate elevations and locations of borings are based on drawings provided by the City of San Diego Department of Park and Recreation, and GoogleEarth, 2017.			
12					2. Soil descriptions are based on visual classification made during the field exploration and, where deemed appropriate, have been modified based on the results of laboratory tests.			
13					3. Descriptions on the boring logs apply only at the specific boring locations and at the time the borings were performed. They are not warranted to be representative of subsurface conditions at other locations or times.			
14								
15								
16								
17								
18								
19								
PROJECT NO. 179 GS-16-E					ALLIED GEOTECHNICAL ENGINEERS, INC.			FIGURE A-2

BORING NO. B-1

DATE OF DRILLING: DECEMBER 27, 2016

TOTAL BORING DEPTH: 11.5 FEET

GENERAL LOCATION: LAWN AREA IN NORTHWEST PORTION OF PARK, SOUTH OF WALKWAY AND ADJACENT TO ALMAZON STREET

APPROXIMATE SURFACE ELEV.: +736 FEET MSL

DRILLING CONTRACTOR: TRI-COUNTY DRILLING, INC..

DRILLING METHOD: 8 INCH HSA

LOGGED BY: NICK BARNES

DEPTH (FEET)	SAMPLES	BLOW COUNTS BLOWS/FOOT	OVM READING (PPM)	GRAPHIC LOG	SOIL DESCRIPTION	FIELD MOISTURE % DRY WT.	DRY DENSITY LBS./CU. FT.	REMARKS
1					LAWN			
2					MISSION VALLEY FORMATION Light gray to grayish brown, damp, dense to very dense, fine-grained, friable silty sandstone (SM). Soil displays weak calcium carbonate cementation. At 9', grades into a greenish gray, wet, stiff, highly plastic clay (CH).	10.6	115.4	
3	1							
4		77	0.0					
5	2							
6								
7	3							
8								
9								
10	4	21	0.1			26.1		
11								

NOTES:

Bottom of borehole at 11.5'

No groundwater or seepage encountered during drilling operations

**PROJECT NO.
179GS-16-E**

ALLIED GEOTECHNICAL ENGINEERS, INC.

FIGURE A-3

BORING NO. B-2

DATE OF DRILLING: DECEMBER 27, 2016

TOTAL BORING DEPTH: 11.5 FEET

GENERAL LOCATION: LAWN AREA SOUTH OF WALKWAY AND WEST OF PLAY AREA

APPROXIMATE SURFACE ELEV.: +740 FEET MSL

DRILLING CONTRACTOR: TRI-COUNTY DRILLING, INC..

DRILLING METHOD: 8 INCH HSA

LOGGED BY: NICK BARNES

DEPTH (FEET)	SAMPLES	BLOW COUNTS BLOWS/FOOT	OVN READING (PPM)	GRAPHIC LOG	SOIL DESCRIPTION	FIELD MOISTURE % DRY WT.	DRY DENSITY LBS./CU. FT.	REMARKS
1					LAWN			
2					MISSION VALLEY FORMATION			
3								
4	1							
5								
6	2	100+	0.1		Light gray, damp, dense to very dense, fine-grained, friable silty sandstone (SM). Soil is uncemented to weakly cemented.	14.3	117.3	
7								
8	3							
9								
10								
11	4	28	0.1		Light gray to yellow brown to brownish yellow, medium dense, uncemented.	12.4		

NOTES:

Bottom of borehole at 11.5'

No groundwater or seepage encountered during drilling operations

PROJECT NO. 179GS-16-E	ALLIED GEOTECHNICAL ENGINEERS, INC.	FIGURE A-4
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BORING NO. B-3

DATE OF DRILLING: DECEMBER 27, 2016	TOTAL BORING DEPTH: 11.5 FEET
GENERAL LOCATION: DIRT AREA NORTH OF WALKWAY AND WEST OF RACQUETBALL COURT	
APPROXIMATE SURFACE ELEV.: +740 FEET MSL	DRILLING CONTRACTOR: TRI-COUNTY DRILLING. INC..
DRILLING METHOD: 8 INCH HSA	LOGGED BY: NICK BARNES

DEPTH (FEET)	SAMPLES	BLOW COUNTS BLOWS/FOOT	OVN READING (PPM)	GRAPHIC LOG	SOIL DESCRIPTION	FIELD MOISTURE % DRY WT.	DRY DENSITY LBS./CU. FT.	REMARKS
1					FILL			
2					Light gray, damp to wet, fine-grained silty sand (SM) intermixed with tree bark, leaves and mulch.			
3								
4	1				MISSION VALLEY FORMATION			
5	2	100+	0.2		White to light gray, damp, very dense, fine-grained, silty sandstone (SM). Soil is strongly cemented.	6.8		
6								
7	3							
8								
9								
10								
11	4	100+	0.1		Light gray, weakly cemented.	13.5		

NOTES:

Bottom of borehole at 11.5'

No groundwater or seepage encountered during drilling operations

PROJECT NO. 179GS-16-E	ALLIED GEOTECHNICAL ENGINEERS, INC.	FIGURE A-5
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BORING NO. B-4

DATE OF DRILLING: DECEMBER 27, 2016	TOTAL BORING DEPTH: 11.5 FEET
GENERAL LOCATION: DIRT AREA NORTHEAST OF BASKETBALL COURT	
APPROXIMATE SURFACE ELEV.: +742 FEET MSL	DRILLING CONTRACTOR: TRI-COUNTY DRILLING, INC..
DRILLING METHOD: 8 INCH HSA	LOGGED BY: NICK BARNES

DEPTH (FEET)	SAMPLES	BLOW COUNTS BLOWS/FOOT	OVN READING (PPM)	GRAPHIC LOG	SOIL DESCRIPTION	FIELD MOISTURE % DRY WT.	DRY DENSITY LBS./CU. FT.	REMARKS
1					FILL Light gray, damp to wet, fine-grained silty sand (SM) intermixed with tree bark, leaves and mulch.			
2								
3	1				MISSION VALLEY FORMATION			
4								
5	2	100+	0.0		Light gray, damp, dense to very dense, fine-grained, silty sandstone (SM). Soil is uncemented to weakly cemented.	15.5	119.8	
6								
7								
8								
9								
10								
11	3	69	0.0		Light gray to gray color	14.9		

NOTES:

Bottom of borehole at 11.5'

No groundwater or seepage encountered during drilling operations

PROJECT NO. 179GS-16-E	ALLIED GEOTECHNICAL ENGINEERS, INC.	FIGURE A-6
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APPENDIX B

LABORATORY TESTING

APPENDIX B

LABORATORY TESTING

Selected soil samples were tested in the laboratory to verify visual field classifications and to evaluate certain engineering characteristics. The testing was performed in accordance with the American Society for Testing and Materials (ASTM) or other generally accepted test methods, and included the following:

- Determination of in-place moisture content (ASTM D2216). The final test results are presented on the boring logs;
- Determination of in-place dry density and moisture content (ASTM D2937) based on relatively undisturbed drive samples. The final test results are presented on the boring logs;
- Maximum density and optimum moisture content (ASTM D1557). The final test results are presented on Figures B-1 and B-2;
- Sieve and hydrometer analyses (ASTM D422), and the final test results are plotted as gradation curves on Figure B-3;
- Direct shear test (ASTM D3080). The test results are presented on Figures B-4 and B-5;
- Expansion index (ASTM D4829). The final test results are presented in Table B-1; and
- R-value tests (CT 301), and the final test results are shown on Table B-2;
- Atterberg Limits (ASTM D4318) and the test results are presented in Table B-3.

In addition, representative samples of the onsite soil materials were delivered to Clarkson Laboratory and Supply, Inc. for analytical (chemical) testing to determine soil pH and resistivity, soluble sulfate and chloride concentrations, and bicarbonate content. Copies of Clarkson's laboratory test data reports are included herein.

Table B-1
Summary of Expansion Index Test Results

Sample ID	Expansion Index
B-1 #3 @ 7'-9'	53

Table B-2
Summary of R-value Test Results

Sample ID	R-Value
B-2 #1 @4'-5'	25
B-3 #2 @4'-7'	26

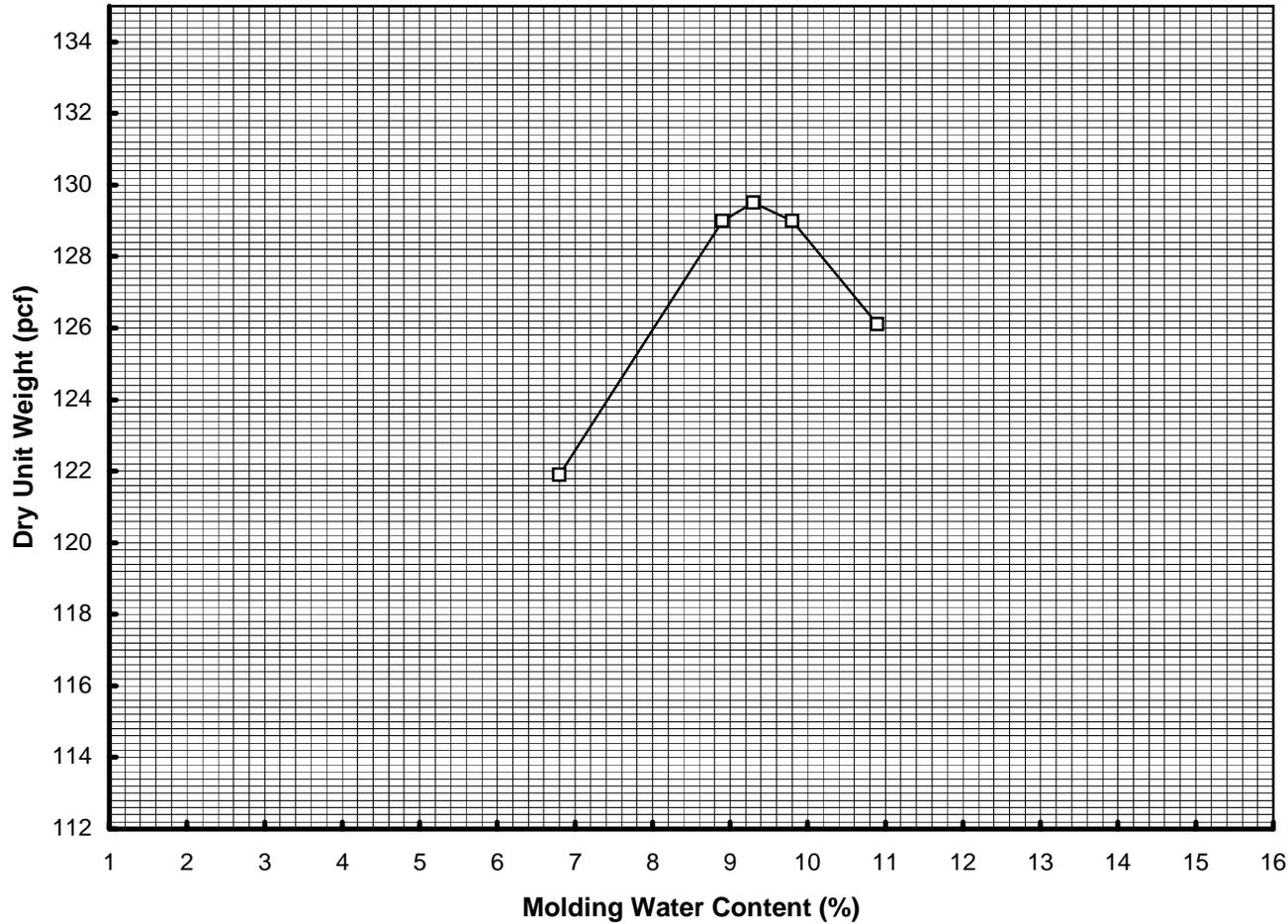
Table B-3
Summary of Atterberg Limits Test Results

Sample No.	Liquid Limit	Plastic Limit	Plasticity Index
B-1 #4 @ 10'-11.5'	70	28	42

COMPACTION CURVE

Test Method: ASTM D 1557

Compaction Procedure: B Specimen Preparation Method: Moist or Dry



5

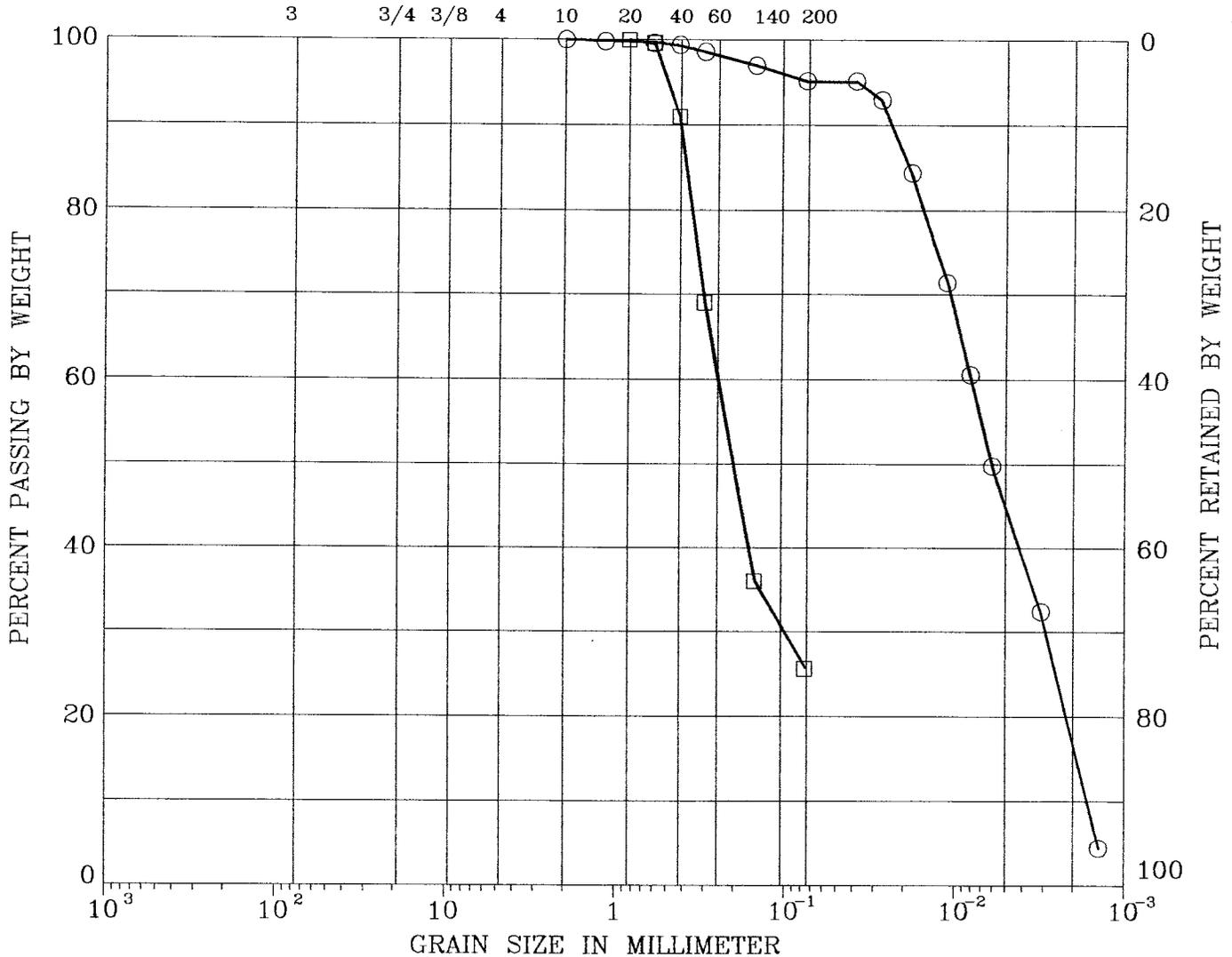
Sample I.D.	Sample Type	Depth (ft)	OPT. WC (%)	MAX. DUW (pcf)	LL	PI	Description and/or Classification
B-1 #3	Bulk	7-9	9.3	129.5			Yellow brown silty sand (SM) with gravels

**ROLLING HILLS PARK REHABILITATION
CITY OF SAN DIEGO**

PROJECT NO. 179 GS-16-E	ALLIED GEOTECHNICAL ENGINEERS, INC.	FIGURE B-1
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UNIFIED SOIL CLASSIFICATION

<i>COBBLES</i>	<i>GRAVEL</i>		<i>SAND</i>			<i>SILT OR CLAY</i>
	COARSE	FINE	COARSE	MEDIUM	FINE	
U.S. SIEVE SIZE IN INCHES			U.S. STANDARD SIEVE No.			HYDROMETER



SYMBOL	BORING	DEPTH (ft)	LL (%)	PI (%)	DESCRIPTION
○	B-1 #4	11-11.5	70	42	CLAY (CH)
□	B-3 #4	11-11.5			SILTY SAND (SM)

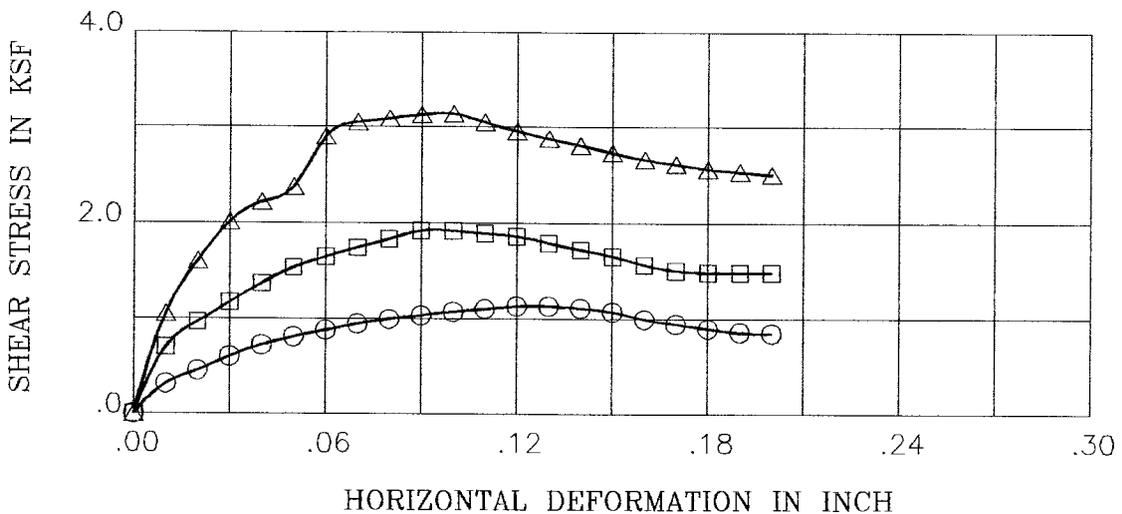
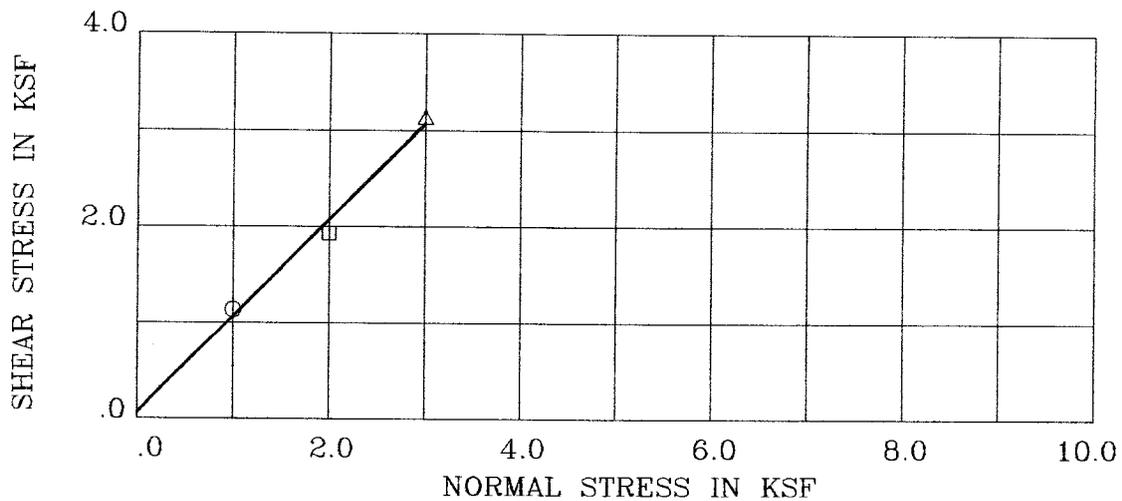
Remark :

Project 179 GS-16E

ROLLING HILLS PARK REHABILITATION

ALLIED GEOTECHNICAL ENGINEERS, INC.

GRAIN SIZE DISTRIBUTION Figure B-2

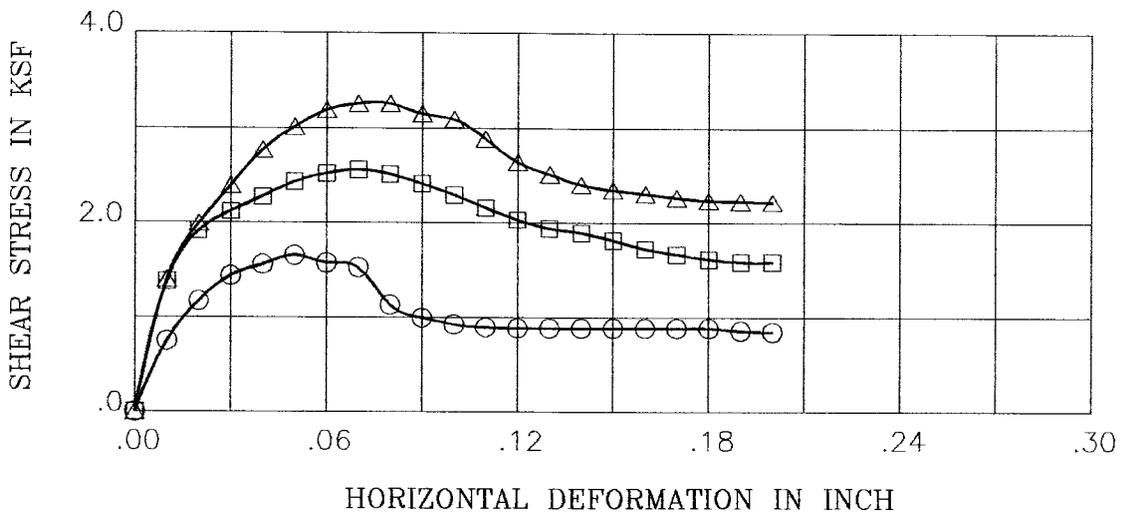
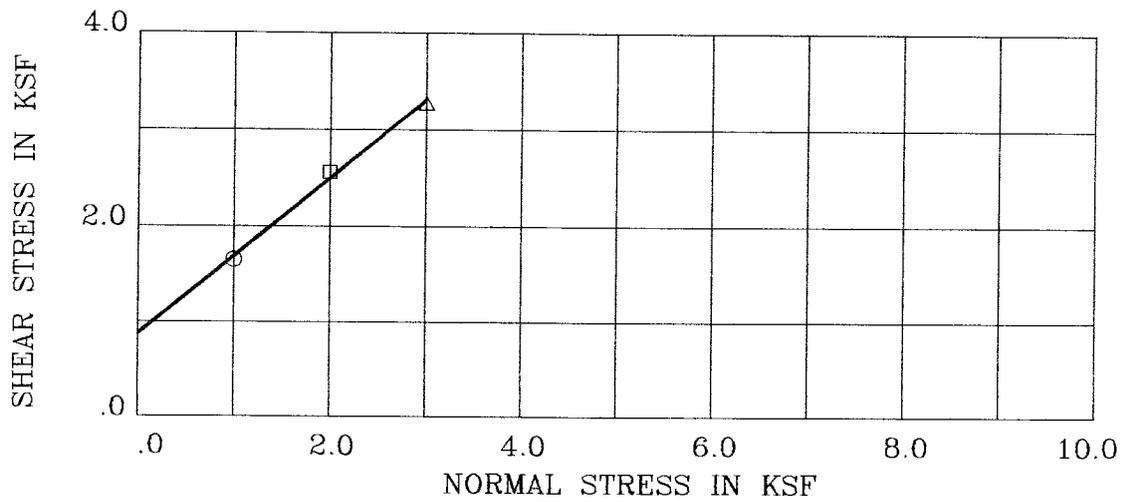


BORING/SAMPLE : B-1 #2 DEPTH (ft) : 6-6.5
 DESCRIPTION :
 STRENGTH INTERCEPT (C) : .067 KSF
 FRICTION ANGLE (PHI) : 45.0 DEG (PEAK STRENGTH)

SYMBOL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	VOID RATIO	NORMAL STRESS (ksf)	PEAK SHEAR (ksf)	RESIDUAL SHEAR (ksf)
○	10.7	110.7	.466	1.00	1.14	.85
□	11.2	114.3	.420	2.00	1.93	1.49
△	10.0	119.4	.358	3.00	3.14	2.50

Remark :

Project 179 GS-16E	ROLLING HILLS PARK REHABILITATION
ALLIED GEOTECHNICAL ENGINEERS, INC.	DIRECT SHEAR TEST Figure B-3

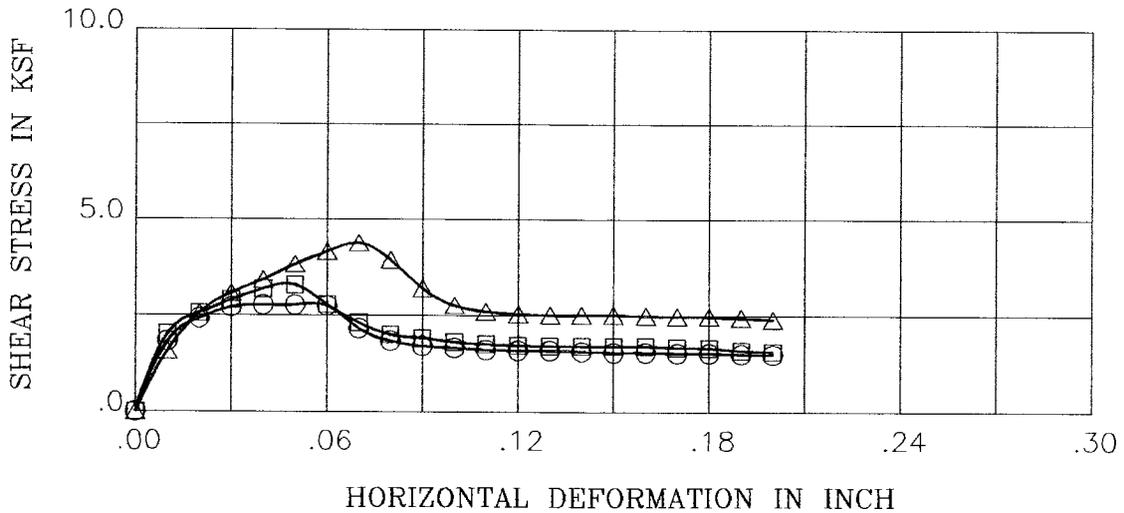
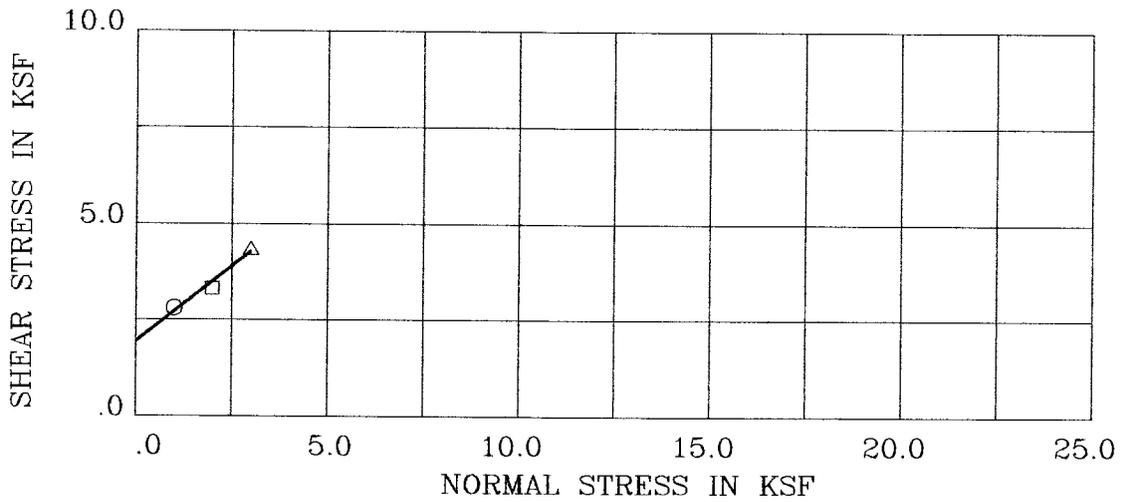


BORING/SAMPLE : B-2 #2 DEPTH (ft) : 6-6.5
 DESCRIPTION :
 STRENGTH INTERCEPT (C) : .878 KSF
 FRICTION ANGLE (PHI) : 39.0 DEG (PEAK STRENGTH)

SYMBOL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	VOID RATIO	NORMAL STRESS (ksf)	PEAK SHEAR (ksf)	RESIDUAL SHEAR (ksf)
○	13.7	117.5	.381	1.00	1.66	.85
□	14.4	117.4	.382	2.00	2.56	1.58
△	14.6	115.5	.405	3.00	3.28	2.22

Remark :

Project 179 GS-16E	ROLLING HILLS PARK REHABILITATION
ALLIED GEOTECHNICAL ENGINEERS, INC.	DIRECT SHEAR TEST Figure B-4



BORING/SAMPLE : B-4 #2 DEPTH (ft) : 2-6
 DESCRIPTION :
 STRENGTH INTERCEPT (C) : 1.936 KSF (PEAK STRENGTH)
 FRICTION ANGLE (PHI) : 38.1 DEG

SYMBOL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	VOID RATIO	NORMAL STRESS (ksf)	PEAK SHEAR (ksf)	RESIDUAL SHEAR (ksf)
○	14.9	121.8	.331	1.00	2.81	1.50
□	14.9	118.1	.374	2.00	3.32	1.58
△	15.0	118.5	.369	3.00	4.38	2.40

Remark :

Project 179 GS-16E	ROLLING HILLS PARK REHABILITATION
ALLIED GEOTECHNICAL ENGINEERS, INC.	DIRECT SHEAR TEST Figure B-5

LABORATORY REPORT

Telephone (619) 425-1993

Fax 425-7917

Established 1928

CLARKSON LABORATORY AND SUPPLY INC.
350 Trousdale Dr. Chula Vista, Ca. 91910 www.clarksonlab.com
ANALYTICAL AND CONSULTING CHEMISTS

Date: January 6, 2017

Purchase Order Number: PROJ#179GS-16-E

Sales Order Number: 34151

Account Number: ALLG

To:

Allied Geotechnical Engineers
1810 Gillespie Way Ste 104
El Cajon, CA 92020
Attention: Sani Sutanto

Laboratory Number: S06262-1

Customers Phone: 449-5900

Fax: 449-5902

Sample Designation:

One soil sample received on 01/03/17 at 3:45pm,
taken from PROJ#179GS-16-E marked as B2#3@7-8'.

Analysis By California Test 643, 1999, Department of Transportation
Division of Construction, Method for Estimating the Service Life of
Steel Culverts.

pH 8.3

Water Added (ml)

Resistivity (ohm-cm)

10	1200
5	620
5	430
5	410
5	360
5	380
5	410

20 years to perforation for a 16 gauge metal culvert.
26 years to perforation for a 14 gauge metal culvert.
36 years to perforation for a 12 gauge metal culvert.
46 years to perforation for a 10 gauge metal culvert.
56 years to perforation for a 8 gauge metal culvert.

Water Soluble Sulfate Calif. Test 417

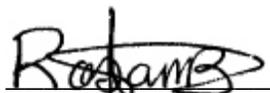
0.015% (150ppm)

Water Soluble Chloride Calif. Test 422

0.065% (650ppm)

Bicarbonate (as CaCO₃)
(In a 1:3 water extraction)

22ppm



Rosa M. Bernal

RMB/ram

LABORATORY REPORT

Telephone (619) 425-1993 Fax 425-7917 Established 1928

CLARKSON LABORATORY AND SUPPLY INC.
350 Trousdale Dr. Chula Vista, Ca. 91910 www.clarksonlab.com
ANALYTICAL AND CONSULTING CHEMISTS

Date: January 6, 2017
Purchase Order Number: PROJ#179GS-16-E
Sales Order Number: 34151
Account Number: ALLG

To:

Allied Geotechnical Engineers
1810 Gillespie Way Ste 104
El Cajon, CA 92020
Attention: Sani Sutanto

Laboratory Number: S06262-2 Customers Phone: 449-5900
Fax: 449-5902

Sample Designation:

One soil sample received on 01/03/17 at 3:45pm,
taken from PROJ#179GS-16-E marked as B3#3@7-8'.

Analysis By California Test 643, 1999, Department of Transportation
Division of Construction, Method for Estimating the Service Life of
Steel Culverts.

pH 9.2

Table with 2 columns: Water Added (ml) and Resistivity (ohm-cm). Rows show values for 10, 5, 5, 5, 5, 5, 5 ml of water added, with corresponding resistivity values ranging from 990 to 2300 ohm-cm.

30 years to perforation for a 16 gauge metal culvert.
40 years to perforation for a 14 gauge metal culvert.
55 years to perforation for a 12 gauge metal culvert.
70 years to perforation for a 10 gauge metal culvert.
85 years to perforation for a 8 gauge metal culvert.

Water Soluble Sulfate Calif. Test 417 0.003% (27ppm)
Water Soluble Chloride Calif. Test 422 0.019% (190ppm)
Bicarbonate (as CaCO3) 39ppm
(In a 1:3 water extraction)

Rosa M. Bernal
RMB/ram

L A B O R A T O R Y R E P O R T

Telephone (619) 425-1993 Fax 425-7917 Established 1928

C L A R K S O N L A B O R A T O R Y A N D S U P P L Y I N C.
350 Trousdale Dr. Chula Vista, Ca. 91910 www.clarksonlab.com
A N A L Y T I C A L A N D C O N S U L T I N G C H E M I S T S

Date: January 6, 2017
Purchase Order Number: PROJ#179GS-16-E
Sales Order Number: 34151
Account Number: ALLG

To:

Allied Geotechnical Engineers
1810 Gillespie Way Ste 104
El Cajon, CA 92020
Attention: Sani Sutanto

Laboratory Number: S06262-3 Customers Phone: 449-5900
Fax: 449-5902

Sample Designation:

One soil sample received on 01/03/17 at 3:45pm,
taken from PROJ#179GS-16-E marked as B4#1@3-4'.

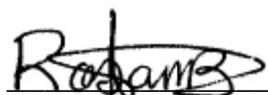
Analysis By California Test 643, 1999, Department of Transportation
Division of Construction, Method for Estimating the Service Life of
Steel Culverts.

pH 7.6

Water Added (ml)	Resistivity (ohm-cm)
10	900
5	570
5	400
5	350
5	340
5	330
5	350
5	370

19 years to perforation for a 16 gauge metal culvert.
25 years to perforation for a 14 gauge metal culvert.
35 years to perforation for a 12 gauge metal culvert.
45 years to perforation for a 10 gauge metal culvert.
54 years to perforation for a 8 gauge metal culvert.

Water Soluble Sulfate Calif. Test 417	0.016% (160ppm)
Water Soluble Chloride Calif. Test 422	0.082% (820ppm)
Bicarbonate (as CaCO ₃) (In a 1:3 water extraction)	40ppm



Rosa M. Bernal
RMB/ram

ATTACHMENT F
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ATTACHMENT G
CONTRACT AGREEMENT

CONTRACT AGREEMENT

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and **JMJ Construction**, herein called "Contractor" for construction of **Rolling Hills Neighborhood Park ADA Upgrade**; Bid No. **K-18-1740-DBB-3**; in the amount of **One Million Five Hundred Thirty Seven Thousand Six Hundred Fifty Dollars and Zero Cents (\$1,537,650)**, which is comprised of the Base Bid plus Alternates 1 and 2.

IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings of the parties hereto, City and Contractor agree as follows:

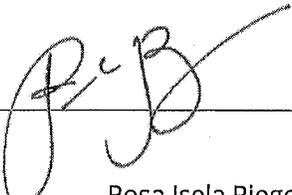
1. The following are incorporated into this contract as though fully set forth herein:
 - (a) The attached Faithful Performance and Payment Bonds.
 - (b) The attached Proposal included in the Bid documents by the Contractor.
 - (c) Reference Standards listed in the Instruction to Bidders and the Supplementary Special Provisions (SSP).
 - (d) That certain documents entitled **Rolling Hills Neighborhood Park ADA Upgrade**, on file in the office of the Public Works Department as Document No. **S-15021**, as well as all matters referenced therein.
2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **Rolling Hills Neighborhood Park ADA Upgrade**, Bid Number **K-18-1740-DBB-3**, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances.
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement.

CONTRACT AGREEMENT (continued)

IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code §22.3102 authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

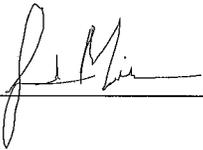
By 
Print Name: Rosa Isela Riego
Senior Contract Specialist
Public Works Department

Mara W. Elliott, City Attorney
By 
Print Name: Bonny Hsu
Deputy City Attorney

Date: 08/07/2018

Date: 8/8/18

CONTRACTOR

By JMJ Construction 
Print Name: Jordan Moisa

Title: President

Date: 4/4/2108

City of San Diego License No.: 2018002957

State Contractor's License No.: 938561

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000010912

CERTIFICATIONS AND FORMS

The Bidder / Proposer, by submitting its electronic bid or proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certifications, forms and affidavits submitted as part of this submission are true and correct.

BIDDER'S GENERAL INFORMATION

To the City of San Diego:

Pursuant to "Notice Inviting Bids", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED
WITH BID UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE
7106**

State of California

County of San Diego

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

This company_has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "American With Disabilities Act", of the project specifications, and that:

This company has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

CONTRACTOR CERTIFICATION

EQUAL BENEFITS ORDINANCE CERTIFICATION

I declare under penalty of perjury that I am familiar with the requirements of and in compliance with the City of San Diego Municipal Code § 22.4300 regarding Equal Benefits Ordinance.

CONTRACTOR CERTIFICATION

EQUAL PAY ORDINANCE CERTIFICATION

Contractor shall comply with the Equal Pay Ordinance (EPO) codified in the San Diego Municipal Code (SDMC) at section 22.4801 through 22.4809, unless compliance is not required based on an exception listed in SDMC section 22.4804.

Contractor shall require all of its subcontractors to certify compliance with the EPO in their written subcontracts.

Contractor must post a notice informing its employees of their rights under the EPO in the workplace or job site.

By signing this Contract with the City of San Diego, Contractor acknowledges the EPO requirements and pledges ongoing compliance with the requirements of SDMC Division 48, section 22.4801 et seq., throughout the duration of this Contract.

AFFIDAVIT OF DISPOSAL

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

WHEREAS, on the _____ DAY OF _____, 2____ the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

Rolling Hills Neighborhood Park ADA Upgrade

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-18-1740-DBB-3**; SAP No. (WBS/IO/CC) **S-15021**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

NOW, THEREFORE, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

and that they have been disposed of according to all applicable laws and regulations.

Dated this _____ DAY OF _____, _____.

By: _____
Contractor

ATTEST:

State of _____ County of _____

On this _____ DAY OF _____, 2____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared _____ known to me to be the _____ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

LIST OF SUBCONTRACTORS

***** PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY *** TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY *** SEE INSTRUCTIONS TO BIDDERS FOR FURTHER INFORMATION**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the California Public Contract Code (PCC), the Bidder is to list below the name, address and license number of each Subcontractor who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement, in an amount of or in excess of 0.5% of the Contractor's total Bid. Failure to comply with this requirement may result in the Bid being rejected as non-responsive. The Contractor is to list only one Subcontractor for each portion of the Work. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percentage of the Work to be performed with the Bidder's own forces. The Bidder is to also list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which the Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	DIR Registration Number	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								

- ① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |
- ② As appropriate, Bidder shall indicate if Subcontractor is certified by:
- | | | | |
|--|--------|--|----------|
| City of San Diego | CITY | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission | CPUC | | |
| State of California's Department of General Services | CADoGS | City of Los Angeles | LA |
| State of California | CA | U.S. Small Business Administration | SBA |

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

***** PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY *** TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY *** SEE INSTRUCTIONS TO BIDDERS FOR FURTHER INFORMATION**

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	DIR Registration Number	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB ^①	WHERE CERTIFIED ^②
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							

- ① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE,SLBE and ELBE):
- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |
- ② As appropriate, Bidder shall indicate if Vendor/Supplier is certified by:
- | | | | |
|--|--------|--|----------|
| City of San Diego | CITY | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission | CPUC | | |
| State of California's Department of General Services | CADoGS | City of Los Angeles | LA |
| State of California | CA | U.S. Small Business Administration | SBA |

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

SUBCONTRACTORS ADDITIVE/DEDUCTIVE ALTERNATE (USE ONLY WHEN ADDITIVE ALTERNATES ARE REQUIRED)

***** PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY *** TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY *** SEE INSTRUCTIONS TO BIDDERS, FOR FURTHER INFORMATION**

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	DIR Registration Number	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB ^①	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNER SHIP
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								

- ① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |
- ② As appropriate, Bidder shall indicate if Subcontractor is certified by:
- | | | | |
|--|------|--|----------|
| City of San Diego | CITY | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission | CPUC | State of California's Department of General Services | CADoGS |
| City of Los Angeles | LA | State of California | CA |
| U.S. Small Business Administration | SBA | | |

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

SUBCONTRACTORS ADDITIVE/DEDUCTIVE ALTERNATE (USE ONLY WHEN ADDITIVE ALTERNATES ARE REQUIRED)

***** PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY *** TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY *** SEE INSTRUCTIONS TO BIDDERS, FOR FURTHER INFORMATION**

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	DIR Registration Number	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB ^①	WHERE CERTIFIED ^②	CHECK IF JOINT VENTURE PARTNER SHIP
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____	NO	SUBCONTRACTOR	FOR	THE	ALTERNATES			
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____						USED		

- ① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |
- ② As appropriate, Bidder shall indicate if Subcontractor is certified by:
- | | | | |
|--|------|--|----------|
| City of San Diego | CITY | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission | CPUC | State of California's Department of General Services | CADoGS |
| City of Los Angeles | LA | State of California | CA |
| U.S. Small Business Administration | SBA | | |

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

ELECTRONICALLY SUBMITTED FORMS

THE FOLLOWING FORMS MUST BE SUBMITTED IN PDF FORMAT WITH BID SUBMISSION

The following forms are to be completed by the bidder and submitted (uploaded) electronically with the bid in PlanetBids.

A. BID BOND - See Instructions to Bidders, Bidders Guarantee of Good Faith (Bid Security) for further instructions

B. CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

Bids will not be accepted until ALL the above-named forms are submitted as part of the bid submittal

BID BOND

**See Instructions to Bidders, Bidder Guarantee of Good Faith
(Bid Security)**

KNOW ALL MEN BY THESE PRESENTS,

That J M J CONSTRUCTION as Principal, and
NORTH AMERICAN SPECIALTY INSURANCE COMPANY as Surety, are held and firmly bound unto The City of San Diego hereinafter called "OWNER," in the sum of **10% OF THE TOTAL BID AMOUNT** for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the bidding schedule(s) of the OWNER's Contract Documents entitled

ROLLING HILLS NEIGHBORHOOD PARK ADA UPGRADE

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" enters into a written Agreement on the form of agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 5TH day of MARCH, 2018

J M J CONSTRUCTION (SEAL)
(Principal)

NORTH AMERICAN SPECIALTY
INSURANCE COMPANY (SEAL)
(Surety)

By: [Signature]
(Signature)
JORDAN MOISA, PRESIDENT

By: [Signature]
(Signature)
MARK D. IATAROLA, ATTORNEY-IN-FACT

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)



CALIFORNIA NOTARY ACKNOWLEDGMENT

For An Individual Acting In His/Her Own Right:

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Riverside) ss.

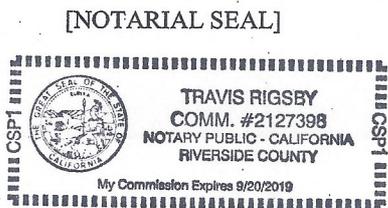
On March 6, 2018 before me, Travis Rigsby Notary Public, personally appeared Jordan Moisa

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

[Signature]
Signature
Travis Rigsby
Print Name



My commission expires: 9/20/19

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

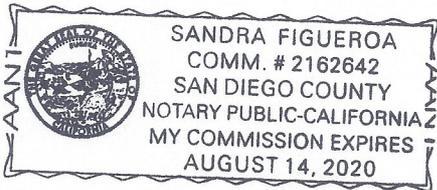
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of SAN DIEGO)
On 3/5/2018 before me, SANDRA FIGUEROA, NOTARY PUBLIC,
Date Here Insert Name and Title of the Officer
personally appeared MARK D. IATAROLA
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature *Sandra Figueroa*
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____
Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: MARK D. IATAROLA
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Individual Attorney in Fact
 Trustee Guardian or Conservator
 Other: _____
Signer Is Representing: _____

Signer's Name: _____
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Individual Attorney in Fact
 Trustee Guardian or Conservator
 Other: _____
Signer Is Representing: _____

NAS SURETY GROUP

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Manchester, New Hampshire, and Washington International Insurance Company, a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Schaumburg, Illinois, each does hereby make, constitute and appoint:

JOHN G. MALONEY, HELEN MALONEY, SANDRA FIGUEROA,

and MARK D. IATAROLA

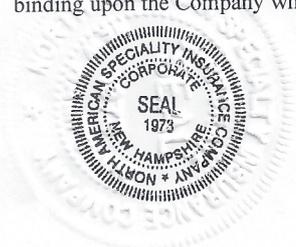
JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of: FIFTY MILLION (\$50,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on the 9th of May, 2012:

RESOLVED, that any two of the Presidents, any Managing Director, any Senior Vice President, any Vice President, any Assistant Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached.



By [Signature] Steven P. Anderson, Senior Vice President of Washington International Insurance Company & Senior Vice President of North American Specialty Insurance Company



By [Signature] Michael A. Ito, Senior Vice President of Washington International Insurance Company & Senior Vice President of North American Specialty Insurance Company

IN WITNESS WHEREOF, North American Specialty Insurance Company and Washington International Insurance Company have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 17th day of September, 2015.

North American Specialty Insurance Company
Washington International Insurance Company

State of Illinois
County of Cook ss:

On this 17th day of September, 2015, before me, a Notary Public personally appeared Steven P. Anderson, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and Michael A. Ito, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.



[Signature] M. Kenny, Notary Public

I, Jeffrey Goldberg, the duly elected Assistant Secretary of North American Specialty Insurance Company and Washington International Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company and Washington International Insurance Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 5TH day of MARCH, 20 18.

[Signature] Jeffrey Goldberg, Vice President & Assistant Secretary of Washington International Insurance Company & North American Specialty Insurance Company

CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN
8/3/17	Santa Ana, CA	to verify certified payroll	n	pending	none yet still pending
8/18/17	Santa Ana, CA	to verify certified payroll	n	pending	none yet still pending

Contractor Name: JMJ Construction

Certified By Jordan Moisa Title President
[Signature] Name _____ Date 3/6/18
 _____ Signature _____

USE ADDITIONAL FORMS AS NECESSARY

Mandatory Disclosure of Business Interests Form

BIDDER/PROPOSER INFORMATION

JMJ Construction	JMJ COstruction		
Legal Name 30724 Benton Road C302-593	DBA winchester	State ca	Zip 92591
Street Address	City	State	Zip
JOrdan Moisa, President Contact Person, Title	5621384733 Phone	n/a Fax	

Provide the name, identity, and precise nature of the interest* of all persons who are directly or indirectly involved** in this proposed transaction (SDMC § 21.0103).

* The precise nature of the interest includes:

- the percentage ownership interest in a party to the transaction,
- the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction,
- the value of any financial interest in the transaction,
- any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and
- any philanthropic, scientific, artistic, or property interest in the transaction.

** Directly or indirectly involved means pursuing the transaction by:

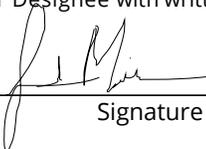
- communicating or negotiating with City officers or employees,
- submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City, or
- directing or supervising the actions of persons engaged in the above activity.

JOrdan Moisa	president / owner
Name	Title/Position
Temecula Ca	
City and State of Residence	Employer (if different than Bidder/Proposer) tge percentage ownership interest in any firm, corporation, or partnership that will recieve funds from the transaction
Interest in the transaction	

Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	

* Use Additional Pages if Necessary *

Under penalty of perjury under the laws of the State of California, I certify that I am responsible for the completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Mayor or Designee within five (5) business days if, at any time, I learn that any portion of this Mandatory Disclosure of Business Interests Form requires an updated response. Failure to timely provide the Mayor or Designee with written notice is grounds for Contract termination.

Jordan Moisa President		8/7/2018
Print Name, Title	Signature	Date

Failure to sign and submit this form with the bid/proposal shall make the bid/proposal non-responsive. In the case of an informal solicitation, the contract will not be awarded unless a signed and completed Mandatory Disclosure of Business Interests Form is submitted.

City of San Diego

CITY CONTACT: Juan E. Espindola - Contract Specialist, Email: JEspindola@sandiego.gov
Phone No. (619) 533-4491

ADDENDUM A



FOR

ROLLING HILLS NEIGHBORHOOD PARK ADA UPGRADE

BID NO.:	K-18-1740-DBB-3
SAP NO. (WBS/IO/CC):	S-15021
CLIENT DEPARTMENT:	1714
COUNCIL DISTRICT:	5
PROJECT TYPE:	GB

BID DUE DATE:

**2:00 PM
MARCH 6, 2018
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
525 B STREET, SUITE 750, MS 908A
SAN DIEGO, CA 92101**

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

B. CLARIFICATION

1. The Pre-Bid Meeting for this project, scheduled for February 14, 2018 at 10:00 AM, has been cancelled and will not be rescheduled.

C. NOTICE INVITING BIDS

1. To Item 8, Pre-Bid Meeting, page 5, Sub item 8.1, **DELETE** in its entirety.
2. To Item 10, Submission of Questions, page 5, Sub item 10.1., **DELETE** in its entirety and **SUBSTITUTE** with the following:

10. SUBMISSION OF QUESTIONS:

10.1. The Director (or Designee) of Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. Any questions related to this solicitation shall be submitted to:

Public Works Contracts
525 B Street, Suite 750, MS 908A
San Diego, California, 92101
Attention: Juan E. Espindola

James Nagelvoort, Director
Public Works Department

Dated: *February 6, 2018*
San Diego, California

JN/RWB/Lad

City of San Diego

CITY CONTACT: Juan E. Espindola - Contract Specialist, Email: JEspindola@sandiego.gov
Phone No. (619) 533-4491

ADDENDUM B



FOR

ROLLING HILLS NEIGHBORHOOD PARK ADA UPGRADE

BID NO.:	K-18-1740-DBB-3
SAP NO. (WBS/IO/CC):	S-15021
CLIENT DEPARTMENT:	1714
COUNCIL DISTRICT:	5
PROJECT TYPE:	GB

BID DUE DATE:

**2:00 PM
MARCH 6, 2018
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
525 B STREET, SUITE 750, MS 908A
SAN DIEGO, CA 92101**

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

B. BIDDER'S QUESTIONS

Q1. Is the Shade Structure as shown by Detail J on Drawing L-3 to be furnished by Owner? It says Order # 59419.

A1. No, the Shade Structure shall be provided by the Contractor

Q2. Will the testing costs for the earthwork and concrete be paid and done by Owner?

A2. No, the testing cost associated with the earthwork and concrete will be paid by the contractor

Q3. On Drawing L-1 it says to provide Grace 3 and 5 for the pervious concrete. Which one is it?

A3. No color is required. Natural color with sand finish per plans.

Q4. Is color required to be added to the concrete wall as shown by Detail H on drawing L-3? It states to provide a sand finish.

A4. Because the pervious concrete will not have any "fines", the Grace (or Topcast) finish is meant only to expose the color of the aggregate material. We will only need one of the two (3 or 5), whichever meets the intent (to expose the top of the aggregate at the surface). Since a sample is required, more refinement can take place at that time.

Q5. We request a postponement of the bid to March 13th to get responses to RFI's.

A5. At this time, the bid opening date will remain on March 6th.

James Nagelvoort, Director
Public Works Department

Dated: *March 2, 2018*
San Diego, California

JN/RWB/Lad

Bid Results

Bidder Details

Vendor Name JMJ Construction
Address 30724 Benton Rd C302-593
 winchester, CA 92596
 United States
Respondee Jordan Moisa
Respondee Title president
Phone 562-318-4733 Ext.
Email jmjconstruction@me.com
Vendor Type LAT,MALE,DBE,CADIR,PQUAL
License # 938561
CADIR 1000010912

Bid Detail

Bid Format Electronic
Submitted March 6, 2018 12:51:18 PM (Pacific)
Delivery Method
Bid Responsive
Bid Status Submitted
Confirmation # 134094
Ranking 0

Respondee Comment

Buyer Comment

Attachments

File Title	File Name	File Type
pdf	pending actions rolling hills.pdf	CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS
pdf	sub additive w cert.pdf	Sub. Additive/Deductive Alternate for Alternate 1&2 (pg.185)
pdf	bid bond rolling hills.pdf	Bid Bond

Line Items

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
	Main Bid					
1	Bonds (Payment and Performance)					
	524126	LS	1	\$30,000.00	\$30,000.00	
2	Permits (EOC Type I)					
	541330	AL	1	\$20,000.00	\$20,000.00	
3	SWPPP Permit Fee (EOC Type I)					
	541330	AL	1	\$1,000.00	\$1,000.00	
4	SWPPP Development					
	541330	LS	1	\$20,000.00	\$20,000.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
5	SWPPP Implementation					
	238990	LS	1	\$20,000.00	\$20,000.00	
6	Mobilization					
	238990	LS	1	\$60,000.00	\$60,000.00	
7	Field Orders (EOC Type II)					
		AL	1	\$110,000.00	\$110,000.00	
8	Demolition					
	238910	LS	1	\$240,000.00	\$240,000.00	
9	Construction of Park Improvements					
	238990	LS	1	\$932,205.00	\$932,205.00	
				Subtotal	\$1,433,205.00	
	Alternate Items 1					
10	Concrete Wall					
	238110	LS	1	\$25,000.00	\$25,000.00	
				Subtotal	\$25,000.00	
	Alternate Items 2					
11	Shade Structure					
	238990	LS	1	\$79,445.00	\$79,445.00	
				Subtotal	\$79,445.00	
				Total	\$1,537,650.00	

Subcontractors

Name & Address	Description	License Num	CADIR	Amount	Type
Western Gardens Landscaping, Inc. 4616 Pannonia Rd. Carlsbad, CA 92008 United States	irrigation and plants and trees	662550	1000004289	\$250,000.00	PQUAL,SLBE,CADIR

Line Totals (Unit Price * Quantity)								
Item Num	Section	Item Code	Description	Reference	Unit of Measure	Quantity	JMJ Construction - Unit Price	JMJ Construction - Line Total
1	Main Bid	524126	Bonds (Payment and Performance)	2-4.1	LS	1	\$30,000.00	\$30,000.00
2	Main Bid	541330	Permits (EOC Type I)	7-5.3	AL	1	\$20,000.00	\$20,000.00
3	Main Bid	541330	SWPPP Permit Fee (EOC Type I)	7-8.6.3.7	AL	1	\$1,000.00	\$1,000.00
4	Main Bid	541330	SWPPP Development	7-8.6.3.7	LS	1	\$20,000.00	\$20,000.00
5	Main Bid	238990	SWPPP Implementation	7-8.6.3.7	LS	1	\$20,000.00	\$20,000.00
6	Main Bid	238990	Mobilization	9-3.4.1	LS	1	\$60,000.00	\$60,000.00
7	Main Bid		Field Orders (EOC Type II)	9-3.5	AL	1	\$110,000.00	\$110,000.00
8	Main Bid	238910	Demolition	300-1.4	LS	1	\$240,000.00	\$240,000.00
9	Main Bid	238990	Construction of Park Improvements	9-3.1	LS	1	\$932,205.00	\$932,205.00
							Subtotal	\$1,433,205.00
10	ernate Item	238110	Concrete Wall	9-3.1	LS	1	\$25,000.00	\$25,000.00
							Subtotal	\$25,000.00
11	ernate Item	238990	Shade Structure	9-3.1	LS	1	\$79,445.00	\$79,445.00
							Subtotal	\$79,445.00
							Total	\$1,537,650.00