

City of San Diego

CONTRACTOR'S NAME: _____
ADDRESS: _____
TELEPHONE NO.: _____ FAX NO.: _____
CITY CONTACT: Angelica Gil, Contract Specialist, Email: AngelicaG@sandiego.gov
Phone No. (619) 533-3622, Fax No. (619) 533-3633
J. Scott / H. McIntock / LJI

BIDDING DOCUMENTS



FOR

HAWK POCKET PARK IMPROVEMENTS (FORMERLY GUYMON PARK)

BID NO.: _____ **K-17-1531-DBB-3**
SAP NO. (WBS/IO/CC): _____ **S-16045**
CLIENT DEPARTMENT: _____ **1714**
COUNCIL DISTRICT: _____ **4**
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
- THIS IS A HOUSING-RELATED PARKS PROGRAM (HRPP) FUNDED CONTRACT THROUGH THE CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

BID DUE DATE:

2:00 PM

MAY 25, 2017

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 Architect:

Vicki Estrada
1) Architect

4/12/2017

Date

Seal:



Samir M
2) For City Engineer

4/12/17

Date

Seal

C73711

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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 **Hawk Pocket Park Improvements (Formerly Guymon Park)**. For additional information refer to Attachment A.
2. **FULL AND OPEN COMPETITION:** This contract is open to full competition and may be bid on by Contractors who are on the City's current Prequalified Contractors' List. For information regarding the Contractors Prequalified list visit the City's web site: <http://www.sandiego.gov>.
3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$1,960,000**.
4. **BID DUE DATE AND TIME ARE:** **May 25, 2017 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(s) are required for this contract: **Class 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	8.1%
2.	ELBE participation	11.5%
3.	Total mandatory participation	19.7%
 - 7.2. The Bid may be declared non-responsive if the Bidder fails to meet the following requirements:
 - 7.2.1. Attend the Pre-Bid Meeting as described herein.
 - 7.2.2. Include SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**
 - 7.2.3. 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 Division 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: May 11, 2017

Time: 10:00 AM

**Location: 1010 Second Avenue, Suite 1400 (14th floor Large Conference. Rm)
San Diego, CA 92101**

Attendance at the Pre-Submittal 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 a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening. The City will then award the Contract within approximately 14 days of 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 the City Attorney's Office.
- 9.4.** The low Bid will be determined by Base Bid alone
- 9.5.** Once the low bid has been determined, the City may, at its sole discretion, award the contract for the Base bid alone; or for the Base bid plus one or more alternates.

10. SUBMISSION OF QUESTIONS:

- 10.1.** 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: Angelica Gil

OR:

AngelicaG@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.

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. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or dstucky@sandiego.gov.
- 1.3. Due to the City's fiduciary requirement to safeguard vendor data, 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 an 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, EOCP 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 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)** 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 Approved 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:

_____, a corporation, as principal, and
_____, 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
_____ for the faithful performance of
the annexed contract, and in the sum of _____ 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_____

Approved as to Form

Principal

By_____

Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

By_____
Deputy City Attorney

Surety

By_____
Attorney-in-fact

Approved:

Local Address of Surety

By_____
Mayor or Designee

Local Address (City, State) of Surety

Local Telephone No. of Surety

Premium \$_____

Bond No._____

ATTACHMENTS

ATTACHMENT A

SCOPE OF WORK

SCOPE OF WORK

1. **SCOPE OF WORK:** Plans, details, notes, and specifications for the construction of Hawk Pocket Park, including demolition, grading, paving, pavers, prefabricated restroom (state approved coach, under the same permit), shade structure (separate permit), shade shelter (separate permit), play area structures and safety surfacing, picnic tables, stabilized decomposed granite track, fitness equipment, barbeque area, drinking fountain, sidewalk and R/W improvements, planting, irrigation systems, drainage and other park amenities as shown on plans. Deferred submittal items shall be constructed under the same permit number.

1.1. The Work shall be performed in accordance with:

1.1.1. The Notice Inviting Bids and Plans numbered **39654-01-D** through **39654-27-D**, inclusive.

2. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$1,960,000**.

3. **LOCATION OF WORK:** The location of the Work is as follows:

4990 Guymon Street, San Diego, CA 92102

4. **CONTRACT TIME:** The Contract Time for completion of the Work, including the Plant Establishment Period, shall be **220 Working Days**.

4.1. **CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid, appropriate license at the time that the Bid is submitted. Failure to possess the specified license may render the Bid as **non-responsive** and ineligible for award.

4.2. The City has determined that the following licensing classification is required for this contract:

- **CLASS A**

ATTACHMENT B

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ATTACHMENT C

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ATTACHMENT D
PREVAILING WAGES

ATTACHMENT D

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.

- 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.** For contracts entered into on or after April 1, 2015, Contractor and their subcontractors shall 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 design professionals 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. As of March 1, 2015, no contractor or subcontractor may be listed on a bid or proposal for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5. As of April 1, 2015, a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. 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 to the City upon request.

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.

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"), addressed as the "City Supplement" herein, including the following:
 - a) General Provisions (A) for all Contracts.

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 50% of the base Bid **AND** 50% of any alternates.

ADD

2-5.3.3 Shop Drawings. To the "GREENBOOK", ADD the following:

1. All submitted product data shall be legible and be the most up to date information provided by the manufacturer. Any data sheets provided which are dated beyond the last two years shall be accompanied by a letter or certification by the manufacturer that it is the most current information available. Failure to provide such information shall be grounds for rejection of that item.

2-5.3.4 Supporting Information. To the "WHITEBOOK", ADD the following:

3. For landscaping and irrigation materials, submit samples and test results to the Engineer within 15 Days of the NTP.

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) Final Report of Geotechnical Investigation Horton Joint Use dated August 17, 2016 by Allied Geotechnical Engineers, INC.

5. The reports listed above are available for review by contacting the Contract Specialist or visiting:

<ftp://ftp.sannet.gov/OUT/ECP/2-7%20SUBSURFACE%20DATA/>

2-14.3 Coordination. To the "WHITEBOOK", ADD the following:

2. Other adjacent City projects are scheduled for construction for the same time period in the vicinity of Hawk Pocket Park. See Appendix "F" for the approximate location. Coordinate the Work with the adjacent projects as listed below:
 - a) Group Job 778, Regan Owen (619) 533-5205.
 - b) Market St – 47th to Euclid Ave Improvements, Nazie Mansury (619) 533-3754.

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

4-1.3.4 Inspection Paid For By the Contractor. To the “WHITEBOOK”, ADD the following:

1. The special inspections required are listed as follows:
 - a) Play Equipment and Safety Surface
 - b) Concrete work 3000 psi or greater
 - c) Shade Structure
 - d) Shade Shelter
 - e) Prefabricated Restroom

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 later 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 “H”** for more information on the protection of AMI devices.

5-6 COOPERATION. To the “GREENBOOK”, ADD the following:

1. Notify SDG&E at least 10 Working Days prior to excavating within 10 feet of SDG&E Underground High Voltage Transmission Power Lines (69 KV and higher).

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.

ADD:

6-3.2.1.1 Environmental Document.

1. The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a **Mitigated Negative Declaration for Horton Elementary Joint Use/Guymon Street Park/Hallmark Way Reversion To Acreage, PTS No. 495774/495796, SCH No. 2016111028**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Mitigated Negative Declaration** as set forth in **Appendix A**.
2. Compliance with the City’s environmental document shall be included in the Contract Price.

6-8.1.1 Requirements Preparatory to Requesting a Walk-through. To the “WHITEBOOK”, ADD the following:

2. You shall notify the Engineer to arrange a final inspection of permanent BMPs installed and shall obtain the completed, signed, and stamped DS-563 Form 30 Days prior to the issuance of the Notice of Completion.

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.

7-3.2.5 Contractors Builders Risk Property Insurance..

1. You shall provide at your expense, and maintain until Final Acceptance of the Work, a Special Form Builders Risk Policy or Policies. This insurance shall be in an amount equal to the replacement cost of the completed Work (without deduction for depreciation) including the cost of excavations, grading, and filling. The policy or policies limits shall be 100% of this Contract value of the Work plus 15% to cover administrative costs, design costs, and the costs of inspections and construction management.
2. Insured property shall include material or portions of the Work located away from the Site but intended for use at the Site and shall cover material or portions of the Work in transit. The policy or policies shall include as insured property scaffolding, falsework, and temporary buildings located at the Site. The policy or policies shall cover the cost of removing debris, including demolition.
3. The policy or policies shall provide that all proceeds thereunder shall be payable to the City as Trustee for the insured, and shall name the City, the Contractor, Subcontractors, and Suppliers of all tiers as named insured. The City, as Trustee, will collect, adjust, and receive all monies which may become due and payable under the policy or policies, may compromise any and all claims thereunder, and will apply the proceeds of such insurance to the repair, reconstruction, or replacement of the Work.

4. Any deductible applicable to the insurance shall be identified in the policy or policies documents and responsibility for paying the part of any loss not covered because of the application of such deductibles shall be apportioned among the parties except for the City as follows: if there is more than one claimant for a single occurrence, then each claimant shall pay a pro-rata share of the per occurrence deductible based upon the percentage of their paid claim to the total paid for insured. The City shall be entitled to 100% of its loss. You shall pay the City any portion of that loss not covered because of a deductible at the same time the proceeds of the insurance are paid to the City as trustee.
5. Any insured, other than the City, making claim to which a deductible applies shall be responsible for 100% of the loss not insured because of the deductible. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

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.

7-3.5.5 Builders Risk Endorsements.

7-3.5.5.1 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.

7-3.5.5.2 Builders Risk – Partial Utilization. If the City desires to occupy or use a portion or portions of the Work prior to Acceptance in accordance with this Contract, the City will notify you and you shall immediately notify your Builder's Risk insurer and obtain an endorsement that the policy or policies shall not be cancelled or lapse on account of any such partial use or occupancy. You shall obtain the endorsement prior to the City's occupation and use.

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.

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

**ADD:
9-3.7**

Compensation Adjustments for Price Index Fluctuations. To the "WHITEBOOK", ADD the following:

5. This Contract is not subject to the provisions of The "WHITEBOOK" for Compensation Adjustments for Price Index Fluctuations for paving asphalt.

SECTION 200 - ROCK MATERIALS

200-1.1 **General.** To the "GREENBOOK", ADD the following:

Rock products shall be derived from a single source and of the same stock to ensure uniformity of material. Physical samples shall be submitted for each rock product per Whitebook **Sections 200-1 "Rock Products"** and **200-2 "Untreated Base Materials"** for approval by the City. Samples shall illustrate full variety of the color range and size for each item specified. When a rock product is specified for varying range sizes, a sample and/or representative photo shall be provided for each size range. Photos shall be taken of the actual product to be furnished.

200-1.2.1 **General.** To the "GREENBOOK", ADD the following:

Crushed Rock Mulch shall comply with the following:

Product:	Carroll Canyon
Manufacturer:	KRC Rock, or approved equal 800-572-7625 krcrock.com
Product ID:	#12BLK0782
Thickness:	As indicated on the plans.
Nominal Size:	3/8"
Color Range:	Mixes of grays, tans and soft reds.

Sample: 1 cup bag, See **Section 200-1.1 "General"**.

200-2.1 General. To the "WHITEBOOK", ADD the following:

Base material for concrete paving, sidewalks, walkways, ramps and synthetic turf areas shall be Class 2 Aggregate base and shall conform to 3/4" Class 2 aggregate base, per Whitebook **Section 200-2.9 "Class 2 Aggregate Base"**. Installation per Greenbook **Section 301-2 "Untreated Base"**.

Sub-base stone materials for pervious concrete shall conform to Whitebook **Section 202-4 "Permeable Interlocking Concrete Pavers"** with gradation per Whitebook **Table 200-1.2.1**.

200-2.7.1 General. To the "GREENBOOK", ADD the following:

'Disintegrated Granite' shall include 'Stabilized Decomposed Granite' that incorporates a commercially produced stabilizer (binding agent) and is compacted to a relative compaction rate of 80% minimum.

ADD:

200-2.7.4 Stabilized Decomposed Granite.

Stabilized Decomposed Granite shall comply with the following:

Product:	Paradise Gold DG (Stabilized)	
Manufacturer:	KRC Rock, or approved equal	
	800-572-7625	
	krcrock.com	
Product ID:	#12STB0874	
Nominal size:	1/4" minus	
Gradation:	Size	Percent Passing
	No. 4	100
	No. 8	90
	No. 16	79
	No. 30	64
	No. 50	41
	No. 100	24
	No. 200	14

*Allowed percent passing tolerance per screen size shall be 3% for approved equivalents.

Sand Equivalent:	23
Maximum Density:	122.0 lbs/ft ³
Optimum Moisture:	8.0%
Thickness:	As indicated on the plans.
Sample:	1 cup bag. See Section 200-1.1 "General" .

Stabilized Decomposed Granite surfacing shall be compacted to 95% minimum. The Contractor shall provide product data and testing information to confirm that material contains the binder materials at the rates recommended by the manufacturer.

A maintenance program as defined by the product manufacturer shall be implemented to maintain the original specifications of the constructed path as required by CBC 1101B.3. The maintenance program shall address the weather and wear and tear related maintenance practices.

200-2.7.5 Stabilized Binding Agent for Stabilized Decomposed Granite.

Binding Agent for Stabilized Decomposed Granite shall be a commercially produced, non-toxic organic binder agent and shall be colorless, odorless, concentrated powder that naturally binds decomposed granite. Stabilizer shall be thoroughly pre-blended with the decomposed granite at the manufacturing facility. Water shall activate stabilizing binding agent.

SECTION 201 - CONCRETE, MORTAR AND RELATED MATERIALS

201-1.1.2 Concrete Specified by Class and Alternate Class. To the "GREENBOOK" Table 201-1.1.2, REVISE the following:

1. Concrete class for "Curb, Integral Curb and Pavement, Gutter, Walk, Alley Aprons", DELETE "520-A-2500" and SUBSTITUTE with "560-C-3250".

Add the following to Table 201-1.1.2

Type of Construction	Concrete Class	Max. Slump
(With Certified Truck Ticket)		
Concrete Sidewalk	560-C-3250	4-inch
Integral Color Concrete Band	560-C-3250	4-inch
Deepened Color Concrete Band	560-C-3250	4-inch
CIP Concrete Wall	560-C-3250	4-inch
Concrete Footings	520-C-2500	4-inch

201-1.1.3 Concrete Specified by Special Exposure. To the "GREENBOOK", ADD the following:

Based on the Soil Corrosivity Test Results presented in Section 5.3 "Removal" from the Geotechnical Investigation, the concrete foundation for the Prefabricated Restroom shall be a Type V Moderate Exposure Mix with a measurement of 658-CME-4500P **per Table 201-1.1.3** of the Greenbook. Install per **Section 303-1 "Subgrade Preparation"**.

201-1.1.6.1 General. To the "GREENBOOK", ADD the following:

Pervious Concrete Sub-slab shall be installed per plan and **per Section 303-8 "Pervious Concrete"**.

201-1.2.4 Chemical Admixtures. To the "GREENBOOK", ADD the following to Subparagraph a):

Integral Colored Concrete.

Admixture for all integral colored concrete shall be the following:

Admixture: Scofield Chromix Admixtures for color-conditioned concrete, or approved equivalent.

Manufacturer: L.M. Scofield Company

1-800-800-9900

www.scofield.com

Color/ Finish: Color Concrete Band: "C-34 Dark Gray" with 'Acid Etch' finish; surface retarder finish **per Section 201-1.2.8 "Surface Retarder"**.

Deepened Color Concrete Band: "C-34 Dark Gray" with Acid Etch finish; surface retarder finish **per Section 201-1.2.8 "Surface Retarder"**.

*Above colors per Scofield Color Chart A-312.10 – Standard Colors

Sealer: **Per SSP Section 201-1.2.7 "Concrete Sealers"**.

Minimum Standards: ASTM C 494

ASTM C 979

AASHTO M 194

CRD C 87.

Prior to construction, provide concrete sample panel **per Section 303-7.1 "General"** for all above color/ finishes above for approval by City with coordination by the Landscape Architect.

Integral color shall consist of colored admixtures developed for use in ready mixed concrete. The product shall be made of the highest quality synthetic pigments, as well as other ingredients designed to enhance the color and improve the pigment dispersion, workability and finishing performance of the concrete.

Colored admixture shall be water-reducing, set controlling for horizontal or vertical architectural concrete that are compatible with a variety of finishes (broom finishes, sandblast finishes, smooth finishes.) Pigment shall be a permanent coloration, uniform throughout the concrete surface and interior, and shall be highly UV and fade resistant.

Admixture products and procedures for installation shall be in strict accordance with the manufacturer's specifications and recommendations, and those published by the American Concrete Institute (ACI) and the Portland Cement Association (PCA).

ADD:

201-1.2.7

Concrete Sealers. Concrete Sealer shall conform to the following specifications:

Product:	Cementone Clear Sealer, or approved equal
Manufacturer:	L. M. Scofield Company 1-800-800-9900 www.scofield.com
When to Apply:	After concrete has FULLY cured, ~ 28 days.
Surface Preparation:	Power wash clean of compounds, oil, and debris. Allow surfaces to DRY completely.
Spray Applicator	
Guidelines:	Airless Spray: 1500-2500 psi with 0.013-0.015 inch fan tip. HVLP Spray: 5-40 psi with 1.3-1.5mm tip.
Dried Color:	Clear gloss
Coating:	Uniform
Coverage:	(First Coat) 300-400 Sq. Ft/Gal. (Second Coat) 600-800 Sq. Ft/Gal.
VOC Content:	Meet ASTM C 309 Requirements < 100g/L (0.82./gal.)
Second Coat:	Per manufacturer recommendations.
Drying Time:	Min. 12 hrs foot traffic, 72 hrs hard wheel traffic
Temperature:	Apply above 45°F, Store from 45°F - 120°F
Shelf Life:	2 Year, Opened 1 month

Concrete Sealer shall be designed for application on interior/exterior natural concrete and integral colored concrete of variable architectural finishes. Sealer shall be suitable for freshly placed (CIP or PIP) or existing concrete with little to no alteration of concrete color. When dry, sealed surface shall resist staining from other construction materials and common food products. Sealer shall be slip resistant.

A brushed, rolled or sprayed method of application shall leave the finish surface with adequate wet and dry slip resistance. The method of application shall be approved by the City.

Sealer shall leave no visible material between the concrete surface and sealer. The sealer shall be absorbed and locked into the pores surfaces and installed per manufacturer's directions.

Contractor shall prepare concrete paving surfaces per concrete sealer manufacturer's recommendation.

Contractor product data bulletin recommendation.

Sealer shall be applied to half of all concrete mock ups 28 days after curing time for review of performance and adherence to finishes.

201-1.2.8 Surface Retarder. For exposed aggregate concrete, the retardant shall be a water-based, top-surface retarder available in 11 depths of etch. Product shall be ideal for poured-in-place flatwork with etch selections ranging from simulated light acid wash or sand blast finish to full exposure of 1-1/4" aggregate. Surface retarder shall comply with the following specifications:

Product:	Top-Cast, or approved equal.
Manufacturer:	Dayton Superior 1-877-2663-7732 www.daytonsuperior.com
Etch Depth:	Acid Etch - 03 Violet
Surface Preparation:	Protect surrounding features not to receive etching solution. Protect during application and removal.
When to Apply:	Apply uniformly to wet concrete after the evaporation of initial bleed water.
Spray Applicator:	Low-pressure sprayer (plastic)
Precautions:	Protective clothing, gloves, and eye protection. Use with adequate ventilation.
Coating:	Thoroughly mix prior to application. Apply uniform coating over entire concrete surface until a complete hiding coat is applied. Do not apply too sparingly.
Pigment:	Product is pigmented for visibility of application.
When to Remove:	Varies based on concrete mix, site conditions, finishing technique. As early as 4 hours, up to 16 hours; Fast-setting concrete mixes or warmer weather, especially for lightest etches, wash away same day for best results. Early conditions-wash away with hose and brush. Normally wash away the next day using pressure washer and/or brush. Do not wait too long to remove Top Cast as concrete will eventually harden.
Coverage:	200-300 Sq. Ft/Gal.
Clean-up:	Water
VOC Content:	Meet ASTM C 309 Requirements< 100g/L (0.82./gal.)
Drying Time:	1-2 hours after application
Shelf Life:	5 gallon size unopened, 2 Years from manufacture date. Discard opened product.
Test Panels:	Provide test panel using accepted concrete matrix and similar project conditions.

201-2.2.1. Reinforcing Steel. To the "GREENBOOK", ADD the following:

Epoxy Coated Reinforcing Bars shall meet ASTM A934 Standard Specification for Epoxy Coated Reinforcing Bars for Oceans and Other Severer Environments. Epoxy Powder shall also meet ASTM A884, ASTM A775, ASTM A1078, ASTM D3963, AASHTO M284, and AASHTO M254, except flexibility.

ADD:

201-2.5 Tie Wire. Tie wire shall be 16 gauge, black annealed.

201-2.6 Reinforcing Supports. All horizontal reinforcing shall be supported on approved chairs or supports to the specified height and locations as indicated on the plans.

201-2.7 Dowel. Dowels shall be sections of deformed steel reinforcing rod in sizes and lengths as indicated on the plans. Dowels shall be provided in locations where resilient paving sub-slab abuts existing or new concrete curbs, where concrete curbs abut new concrete walkways, at expansion joints, and anywhere else as indicated on the plans. Provide dowels at the on-center spacing as indicated on the plan, centered vertically within the concrete slab section, with a minimum of two dowels abutting into any adjacent slab sections.

Epoxy coated doweling shall meet ASTM and AASHTO Standards outlined in **Section 201-2.2.1 "Reinforcing Steel."**

201-3.4 Type "A" Sealant (Two-Part Polyurethane Sealant): To the "GREENBOOK", ADD the following:

All finished concrete surfaces shall have ½" continuous expansion joints at the locations indicated on the plans. Sealants shall be installed to maintain a continuous watertight seal over the expansion joint material without causing straining or deterioration of the material. Joint sealants, joint fillers and other related materials shall be compatible with one another. Sidewalk expansion joints shall be located either parallel or perpendicular to the curb line. When not otherwise indicated, expansion joints located adjacent to colored or stained concrete shall be Type "A" Sealant colored to match the color of the concrete surface.

Contractor shall submit product data from the manufacturer of each joint sealant product required, including instructions for joint preparation and joint sealer application. For initial selection purposes, the Contractor shall submit samples of the manufacturer's standard bead samples consisting of strips of actual products showing the full range of colors available for each product exposed to view. Samples shall be submitted to the City. For each sealant submit a complete schedule of the type and location where type is to be used.

SECTION 202 – MASONRY MATERIALS

202-4.2.1 Permeable Interlocking Concrete Pavers. To the "GREENBOOK", ADD the following:

Permeable Interlocking Concrete Pavers shall conform to the following specifications:

Product:	Modular Wave Pavers, or approved equal
Size:	3-7/8" x 11-7/8" x 4"
Manufacturer:	Stepstone, Inc.

17025 So. Main St.
Gardenia, Ca 90248
310-327-7474
www.stepstoneinc.com

Paver 1:	Wave Paver L - Left (Piece A) Wave Paver R - Right (Piece B)
Paver 1 Color:	#1411 Charcoal with Slag
Paver 1 Finish:	Sandblast
Paver 2:	Wave Paver L - Left (Piece A) Wave Paver R - Right (Piece B)
Paver 2 Color:	#1401 Granada White with Slag
Paver 2 Finish:	Sandblast
Color Mix:	Integral Throughout (not face)
Paver Unit Edge:	3/16" radius
Built in Spacers:	1/8"
Quantities:	Per Plans
Additional Quantity	
Recommendations:	10% to accommodate slope and adjoining concrete ends.
Minimum Strength:	5,000 psi CalArc Compressive Strength (California Architectural Precast Concrete)
Cement Type:	Type III
Warranty:	5 year, See manufactures Warranty - Precast Concrete Products
Color Fade:	10%
Installation:	Per Plans and Manufacturer's recommendations.

ADD:
202-5

CIP CONCRETE WALL - PRECAST CAP AND COBBLE VENEER

202-5.1

Precast Concrete Wall Cap. Concrete Wall Cap shall conform to the following specifications:

Product:	Classic Wall Cap, or approved equal
Units/Size:	Straight; 24" L x 16" W x 2-1/2" Thick End; 24" L x 16" W x 2-1/2" Thick Corner; 18" L SQ. x 16" W x 2-1/2" Thick
Reveal:	1/4"
Bullnose	1"
Manufacturer:	Stepstone, Inc. 17025 So. Main St. Gardenia, Ca 90248 310-327-7474 www.stepstoneinc.com

Color: #1412 Agave Green with Slag
 Finish: Smooth Finish Top and Nose
 Quantities: Straight - 71
 End - 4
 Corner - 3
 *Quantities represent per plan conditions.

Additional Quantity
 Recommendations: 15% to accommodate slope, corner and end conditions.
 Color Mix: Integral
 Minimum Strength: 4,000 psi Compressive Strength
 Warranty: 5 year, See manufactures Warranty - Precast Concrete Products
 Color Fade: 10%
 Installation: Per Plans and Manufacturer's recommendations.

202-5.2 Veneer Cobble. Miscellaneous Rock Products shall comply with the following:

Natural Thin Veneer for CIP Concrete Wall with Cobble Veneer Finish

Cobble veneering shall consist of two veneer types and shall be installed of even distribution across the exposed faces of the CIP concrete wall. Contractor shall install 25% of Product 1 and 75% of Product 2.

Product 1: Mexican Beach Pebble Buff Thin Veneer Flats (25%)
 Product 1 ID: 12VNR14776
 Product 1 Description: Thin Cut Natural Cobble Veneer
 Product 1 Color Range: Buff, Tans, Rose and some Greens

Product 2: Mexican Beach Pebble Black Thin Veneer (75%)
 Product 2 ID: 12VNR14778
 Product 2 Description: Thin Cut Natural Cobble Veneer
 Product 2 Color Range: Grays and Blacks
 Manufacturer: KRC Rock, or approved equal
 800-572-7625
www.krcrock.com

Thickness range: 1-1/2" to 2-1/2" (Thin Cut Cobble Stone)
 Size: 5" to 10" (Weight: 11-14 lbs/sq. ft.)
 Sample: 3 veneer pieces illustrating color and size range for each veneer type. See **Section 200-1.1 "General.**

SECTION 206 - MISCELLANEOUS METAL ITEMS

206-1.1.1 General. To the "GREENBOOK", ADD the following:

All raw steel stock for steel fabrication shall be true, free of warping, smooth, and consist without pitting, spalls, blemishes, burs, or corrosion. Steel shall be consistent with the ASTM Steel Standards rating for the products intended use.

Standard Steel Sizing and ASTM rating for each steel component shall be clearly illustrated on all shop drawings for review by the City.

Contractor shall submit a full scale mock-up (segment) of structural steel features, including key fabrication and attachment of steel members by welding or mechanical attachment methods compliant with the design, standards and requirements as stated on the plans. The mock-up submittal shall be a complete demonstration of the fabrication and finishing of the steel feature and will be reviewed and evaluated accordingly with the plans.

ADD:

206-8

DECORATIVE FENCE

206-8.1

Decorative Fence Materials. Decorative fence materials shall conform to the dimensions and design intent as indicated on the plans and shall be in accordance with fabricated steel per **Section 206-1.1.1 "General"**, hot-dip galvanizing per **Section 210-3 "Galvanizing"** and powder-coating per **Section 210-6 "Powder Coating"**. Contractor shall provide shop drawings for review and approval. Installations, including all attachments and fasteners shall be vandal-proof (not easily removed) and methods (welded, mechanically attached & loc-tite fortified, or other City-reviewed and approved alternative) indicated on shop drawings for review and approval. All posts shall be embedment mounted into a cast in place concrete footing, size per plans. Field welding will not be allowed as it may compromise the powder-coat finish.

Contractor shall submit a full scale mock-up (segment) of decorative fence features, including key fabrication and attachment of steel members by welding or mechanical attachment methods compliant with the design, standards and requirements as stated on the plans. The mock-up submittal shall be a complete demonstration of the fabrication and final finish of the feature and will be reviewed and evaluated accordingly with the plans. The City will have final approval.

ADD:

206-9

ACCESSIBLE SIGNAGE

206-9.1

General. Signs shall be fabricated in conformance with the **SDM-117** standards for accessible parking signs and with the City of San Diego standards for signs. Sign Post shall be fabricated in conformance with **SDM-104**.

In the event **SDM-117** does not illustrate sign mounting details, refer to San Diego Regional Standard Drawing **M-45** for installation. Signs shall include:

- a) Accessible Parking with Minimum Fine Sign
- b) Tow Away Sign

SECTION 210 – PAINT AND PROTECTIVE COATINGS

210-1.1.1 Anti-Graffiti Coating. To the “WHITEBOOK”, ADD the following:

Third and Fourth coat shall be Item 5600, matte finish. Install **per Section 310-6, “Anti-Graffiti Coating Installation.”**

210-3.1 General. To the “GREENBOOK”, ADD the following:

Prior to galvanizing of fabricated steel components or products, the fabricator shall provide clean-up of all welding spatter, imperfections, and sharp edges. Steel stock shall be free of any corrosion. The fabricated steel component or product shall then be bead blasted and pre-washed to ensure an abrasive raw steel surface is exposed for adhesion and free of any corrosion prior before entering the galvanizing bath. Galvanized coatings that are visibly uneven from outgassing shall be bead blasted down for a visually smooth appearance without exposing raw steel prior to powder coating operations.

210-3.5.3 Zinc Dust Paint. To the “GREENBOOK”, DELETE in its entirety and SUBSTITUE with the following:

When zinc surfaces have small areas of abrasion which occur after shop application of zinc coating, zinc dust paint may be used to repair these areas when approved by the City. The damaged area shall be thoroughly cleaned by wire brushing and traces of welding flux and loose or cracked zinc coating removed prior to painting. The cleaned area shall be painted with a minimum of 3 coats of an un-thinned zinc paint with a shiny finish to provide to provide a total minimum thickness of 8 mils. The zinc dust paint shall conform to requirements of ASTM A780, Annex A3, except that it shall have a 90 percent minimum dry film content of zinc dust by weight. The method of application shall be approved by City.

Zinc Dust Paint shall conform to the following specifications:

Product:	Galvanized Coatings OE SHINY GALV #16-842, or approved equal.
Manufacturer:	Seymour of Sycamore 800-435-4482 www.seymourpaint.com
Dry Time:	5 minutes to touch 20 minutes to recoat
Temperature:	Apply when outside and steel surface temperature is from 50-90°F
Abrasion Resistance:	Good
Heat resistance:	250°F

**ADD:
210-6**

POWDER COATING

210-6.1

General. All steel products or components shall be galvanized in accordance with **Section 210-3 “Galvanizing”** prior to powder coating. Powder coating shall be a polyester powder coating (harder). Polyurethane powder coating (softer) will not be accepted.

Powder coating shall have a minimum thickness of 2 - 3 mils (60 – 80 microns) and be electrostatically applied. Finished powder coating shall be substantially resistant to UV light with minimal, if any, color fading covered under warranty for at least 5 years. Powder coating shall be free of bubbling, peeling, uneven application, and sharp edges; otherwise coatings will be considered defective.

Powder coating shall conform to the color(s) illustrated on the plans. (3) Physical color chip samples of the proposed powder coat color shall be submitted to the City for approval prior to powder coating. The approved color chip samples shall be kept for record and means of color comparison of the final product(s). Powder coating inconsistent with the approved color chip samples or exhibit defective application will be grounds for rejection.

A touch up paint kit, matching the approved powder coat color, shall be provided for installation operations. Contractor shall coat all minor blemished incurred during installation operations. Major blemishes repair with touch up paint kit will not be accepted and will be grounds for rejection of the coating. The City shall have the sole discretion in determining “major” blemish repair.

Any fasteners which cannot be powder coated due to installation purposes, shall have a polyester urethane paint coating applied that matches the approved powder coat color chip. When applicable, (3) physical color paint chip samples shall be submitted together with the powder coat color samples for approval.

Colors shall conform to the following specifications:

Decorative Fence

Series/ Color: 38/50080 Ivy Green, or approved equal
Manufacturer: TIGER Drylac U.S.A.
Powder Coatings
(909) 930-9111
www.tiger-coatings.us

Finish: Satin
Gloss Level: 30 +/- 5
Minimum
Standards: AAMA 2604 (American Architectural Manufacturing Association)

SECTION 213 - ENGINEERING GEOSYNTHETICS.

213-5 **GEOTEXTILES AND GEOGRIDS.** To the "GREENBOOK", ADD the following:

Permeable Geotextile Fabrics used for general separation, drainage and filtration of landscapes materials shall be inert to biological degradation, and resist naturally encountered chemicals, alkalis and acids.

Permeable Geotextile fabrics shall conform to the following specifications:

Product: Mirafi 180N, or approved equal.
 Description: Nonwoven Geotextile, N-Series
 Manufacturer: TenCate Geosynthetics Americas
 706-693-2226
www.tencate.com/amer/geosynthetics/default.aspx
 Minimum Standards: Whitebook Table 213-5(A): NONWOVEN unless otherwise stated herein.
 Grab Tensile Strength: ASTM D4632, 205 lbs (912 N)/ min. ave. roll value
 CBR Puncture Strength: ASTM D6241, 500 Lbs (2224 N)/ min. ave. roll value
 Permittivity: ASTM D4491, 1.4 sec-1 min.
 Flow Rate: ASTM D4491, 95 gal./min./ft. sq.
 Installation: **Section 300-8 "Geotextiles for Drainage".**

SECTION 217 - BEDDING AND BACKFILL MATERIALS

217-2.2 **Stones, Boulders, and Broken Concrete.** To 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.

ADD:

SECTION 219 – SITE FURNISHINGS MATERIALS

219-1 SITE FURNISHINGS

219-1.1 Trash and Recycle Receptacles.

219-1.1.1 Trash Receptacles

Product: Santa Clara Series Side Opening Door Waste Container with Top.
Model #: QSSC2651SDW
Description: Precast concrete square trash receptacle with concrete top, locking steel side door with hinges, 40 gallon plastic liner and key. (Q30SD, QSPL28B, SDKEY, ZSDCABLK-R, H-9381)
Integral Color: Bungalow
Finish: Top – Smooth
Body – Light Sand Blast
Door: Gray
No. of units: (5)
Concrete mix: GEN2 80% recycled concrete
Anti-Graffiti: Manufacturer applied **per Section 210 'Paint and Protective Coatings'; Matte finish.**
Attachment: Surface-mounted – epoxy in place
Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
731 Parkridge Avenue
Norco, CA 92860
(951) 737-6240

www.quickcrete.com

219-1.1.2 Recycle Receptacles

Product: Santa Clara Series Side Opening Door Recycle Container with Top, "recycle logo" inset and painted blue.
Model #: QSSC2651SDW
Description: Precast concrete square recycle receptacle with concrete top, locking steel side door with hinges, 40 gallon plastic liner and key. (Q30SD/BL, QSPL28B, SDKEY, ZSDCABLK-R, H-9381)
Integral Color: Bungalow
Finish: Top – Smooth
Body – Light Sand Blast
Logo Paint: QC Std Blue
Door: Blue
No. of units: (5)
Concrete mix: GEN2 80% recycled concrete
Anti-Graffiti: Manufacturer applied **per Section 210 'Paint and Protective Coatings'; Matte finish.**
Attachment: Surface-mounted – epoxy in place

Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
731 Parkridge Avenue
Norco, CA 92860
(951) 737-6240

www.quickcrete.com

219-1.2 Tables.4

219-1.2.1 Rectangular Precast Concrete Picnic Table.

Product: One Piece Rectangle Picnic Table.
Model #: QLMR72PT
Description: Single mold precast concrete rectangular picnic table.
Integral Color: Bungalow
Finish: Light Sand Blast
No. of units: (2)
Anti-Graffiti: Manufacturer applied **per Section 210 'Paint and Protective Coatings'; Matte finish.**
Attachment: Surface-mounted – epoxy in place
Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
731 Parkridge Avenue
Norco, CA 92860
(951) 737-6240
www.quickcrete.com

219-1.2.2 Rectangular Precast Concrete Picnic Table – Accessible.

Product: One Piece Rectangle Picnic Table with Accessible Pull Up Spaces.
Model #: QLMR102PTADA (1WC)
Description: Single mold precast concrete rectangular picnic table with accessible pull up spaces.
Integral Color: Bungalow
Finish: Light Sand Blast
No. of units: (2)
Anti-Graffiti: Manufacturer applied **per Section 210 'Paint and Protective Coatings'; Matte finish.**
Attachment: Surface-mounted – epoxy in place
Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
731 Parkridge Avenue
Norco, CA 92860
(951) 737-6240
www.quickcrete.com

219-1.2.3 Custom Precast Concrete Dot Style Table with Dot Seats

Product: Custom Dot Style Table (w/ Game Board) and Dot Seats.
QC File #: Table Top – 130156-2 & PC NO. GP1 (w/ Game Board)

Table Pedestal – 130156-3 & PC NO. GP2
Game Board: Dal Tile, 2” Squares, Green & White
Model #: Seats – Q2DOT18B
Seat Colors: Seat Top: Slate Grey; Bottom: Mission White
Description: Custom precast concrete “Dot Style” table top and table pedestal accompanied with (4) “Dot Seats” (QCP Standard Dot Bench).
Integral Color/ Table Top and Bench Slabs – Slate Grey w/ Polished finish
Finish: Table Pedestal and Bench Leg – Mission White – acid etch finish
No. of units: (2) – Dot Style Tables
(8) – Dot Seats
Anti-Graffiti: Manufacturer applied **per Section 210 ‘Paint and Protective Coatings’; Matte finish.**
Attachment: Surface-mounted – epoxy in place
Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
731 Parkridge Avenue
Norco, CA 92860
(951) 737-6240
www.quickcrete.com

219-1.2.4 Custom Precast Concrete Dot Style Table with Dot Seats - Accessible

Product: Custom Dot Style Table (w/ Game Board) with Dot Seats.
QC File #: Table Top – 130156-2 & PC NO. GP1 (w/ Game Board)
Table Pedestal – 130156-3 & PC NO. GP2
Game Board: Dal Tile, 2” Squares, Green & White
Model #: Seats – Q2DOT18B
Seat Colors: Seat Top: Slate Grey; Bottom: Mission White
Description: Custom precast concrete “Dot Style” table top and table pedestal accompanied with (3) “Dot Seats” (QCP Standard Dot Bench).
Integral Color/ Table Top and Bench Slabs – Slate Grey w/ polished finish
Finish: Table Pedestal and Bench Leg – Mission White w/ acid etch finish
No. of units: (1) – Dot Style Table
(3) – Dot Seats
Anti-Graffiti: Manufacturer applied **per Section 210 ‘Paint and Protective Coatings’; Matte finish.**
Attachment: Surface-mounted – epoxy in place
Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
731 Parkridge Avenue
Norco, CA 92860
(951) 737-6240
www.quickcrete.com

219-1.3 Benches.

219-1.3.1 4’ Precast Concrete Bench with No Back

Product: 4’ Long Custom Bench with Installed Skate Deterrents
Model #: Q-MARCO48B

QC File#: 116350-2

Description: Single mold precast rectangular concrete bench with no back and installed skate deterrents. (1) Skate deterrent shall be installed at the center of each 4' long side, total of (2) deterrents.

Integral Color: Slate Grey

Finish: Top – Polished Top
Body – Acid Etch Finish

No. of units: (8)

Anti-Graffiti: Manufacturer applied **per Section 210 'Paint and Protective Coatings'; Matte finish.**

Attachment: Surface-mounted – epoxy in place

Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
731 Parkridge Avenue
Norco, CA 92860
(951) 737-6240
www.quickcrete.com

Skate Deterrent: Los Angeles T for 1/8" Radius (cast in each precast unit)

Description: Insert Series (Bronze)

Manufacturer: Skate Stoppers, Intelliccept, or approved equal.
1547 N. Cuyamaca
El Cajon, CA 92020
619-447-6374
www.skatestoppers.com

Material: Silicon Bronze, 94% copper, 4% silicon

Finish: Silicon Bronze, Brown Patina with Satin Coat

Recycled Content: 75% minimum

219-1.3.2 8' Precast Concrete Bench with No Back

Product: 8' Long Custom Bench with Installed Skate Deterrents

Model #: Q-MARCO96B

QC File#: 116350-2

Description: Single mold precast rectangular concrete bench with no back and installed skate deterrents. (2) Skate deterrent shall be installed at even interval spacing of each 8' long side, total of (4) deterrents.

Integral Color: Slate Grey

Finish: Top – Polished Top
Body – Acid Etch finish

No. of units: (3)

Anti-Graffiti: Manufacturer applied **per Section 210 'Paint and Protective Coatings'; Matte finish.**

Attachment: Surface-mounted – epoxy in place

Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
731 Parkridge Avenue
Norco, CA 92860
(951) 737-6240
www.quickcrete.com

Skate Deterrent: Los Angeles T for 1/8" Radius (cast in each precast unit)
 Description: Insert Series (Bronze)
 Manufacturer: Skate Stoppers, Intelliccept., or approved equal.
 1547 N. Cuyamaca
 El Cajon, CA 92020
 619-447-6374
www.skatestoppers.com
 Material: Silicon Bronze, 94% copper, 4% silicon
 Finish: Silicon Bronze, Brown Patina with Satin Coat
 Recycled Content: 75% minimum

219-1.3.3 8' Precast Concrete Bench with Back

Product: 7' Long Palm Series Bench with Metal Center Handrail
 Model #: Q1PS84B
 QC File#: 116350-2
 Description: Single mold precast rectangular concrete bench with back and installed center handrail (metal).
 Integral Color: Slate Grey
 Finish: Top – Polished Top
 Body – Acid Etch finish
 No. of units: (2)
 Anti-Graffiti: Manufacturer applied **per Section 210 'Paint and Protective Coatings'; Matte finish.**
 Attachment: Surface-mounted – epoxy in place
 Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
 731 Parkridge Avenue
 Norco, CA 92860
 (951) 737-6240
www.quickcrete.com
 Skate Deterrent: Los Angeles T for 1/8" Radius (cast in each precast unit)
 Description: Insert Series (Bronze)
 Manufacturer: Skate Stoppers, Intelliccept.
 1547 N. Cuyamaca
 El Cajon, CA 92020
 619-447-6374
www.skatestoppers.com
 Material: Silicon Bronze, 94% copper, 4% silicon
 Finish: Silicon Bronze, Brown Patina with Satin Coat
 Recycled Content: 75% minimum

219-1.4 Barbeque and Hot Coal Combination.

Product: Steel Barbeque Grill w/ Ash Door Combination
 Model #: QCBQ3636
 Description: Precast concrete square bottomless BBQ body with steel BBQ grill and QC Steel Supplied ash door.

Integral Color: Bungalow
 Finish: Acid Etch
 Door: Grey
 No. of units: (2)
 Anti-Graffiti: Manufacturer applied **per Section 210 'Paint and Protective Coatings'; Matte finish.**
 Attachment: Surface-mounted – epoxy in place
 Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
 731 Parkridge Avenue
 Norco, CA 92860
 (951) 737-6240
www.quickcrete.com

219-1.5 Entry Monument.
Custom Precast Concrete Entry Monument

Product: Curved Custom Entry Monument Sign with Bronze City Logo
 QC File #: Custom (per Detail D/L-5)
 Description: Curved Custom precast concrete entry monument etched/ painted lettering and a bronze City of San Diego Logo place in knockout. Sign curves toward sign face with 1 large radius. Sign top is defined by a reverse curve. Sign body is defined by a continuous etch offset evenly from the reverse curve on all four side faces. Finish 1 and finish 2 are separated by the continuous etch and occur on all four side faces. Entry monument shall is attached with inset coil rods to a continuous concrete footing.
 Integral Color: Slate Gray
 Finish: Finish 1 (Top) – Acid Etch
 Finish 2 (Bottom) – Heavy Sand Blast; Etch Depth: 1/2"
 Knockout Dia: Per Current City of San Diego Regulations.
 Lettering Font: Merriweather Bold
 Letter Colors: Beige (painted)
 Line 1: "HAWK POCKET PARK" 6 inches tall in all capital letters.
 Line 2: "CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT" 3" tall in all capital letters.
 No. of units: (1)
 Anti-Graffiti: Manufacturer applied **per Section 210 'Paint and Protective Coatings'; Matte finish.**
 Attachment: (10) Coil Rods – epoxy in place
 Manufacturer: Quick Crete Products Corp., Inc., or approved equal.
 731 Parkridge Avenue
 Norco, CA 92860
 (951) 737-6240
www.quickcrete.com

219-1.6

Drinking Fountain.

Drinking Fountain shall conform to the following specifications:

Model#:	Model 3500 (Drinking Fountain), MTG.3500 (Mounting Plate)
Description:	Barrier-Free Stainless Steel Pedestal Fountain with Mounting Plate
Manufacturer:	Haws Corporation, or approved equal (775) 359-4712 hawsco.com
Type:	Superior-duty "Hi-lo"
Pedestal:	12 gauge, Type 304 Stainless Steel, Vandal-resistant
Basins:	3/8" Thick Cast Stainless Steel
Finish:	Pedestal and Basins, Powder-coated green, Glossy
Operation:	Push-button with stainless steel valves with operating pressure from 30 to 90 psi, front-accessible cartridge and low adjustment.
Waterways:	100% lead free
Bubbler Heads:	Polished chrome-plated brass with integral basin shank, vandal-resistant waste strainers with top-down clean-out access.
GPM:	0.45
Access:	Access door with heavy duty hinges and square key locks
Mounting:	Integral bottom plate and stainless steel mounting plate with integral 6" zinc plated anchors.

Contractor shall provide and install an extension of the supply line, from potable water line to new drinking fountain location. Contractor shall provide all supply line piping and fittings, drainage line piping and fittings, drain rock, soil separation fabric and other materials as listed on the drawing in locations indicated. Provide Type K copper piping and fittings from existing supply line to new drinking fountain. All work shall be installed in compliance with the local plumbing codes.

Contractor shall provide a drainage sump consisting of a perforated drain line wrapped in a filter fabric sock and surrounded with a 3/4" crushed rock bed, graded away from the drinking at locations and to the size indicated on the plans. Soil or media coverage above the sump drain line shall be 6" minimum unless otherwise specified.

219-1.7

Bike Rack.

Bike rack shall be 87" in length from end post to end post with undulating style loops bent from a continuous 2-3/8" OD Sch. 40 galvanized standard pipe. There shall be 7 loops bends to rack a maximum of 9 bicycles. Length of end post shall be long enough to accommodate the depth requirements as illustrated on the plans. Install **per Section 319-1.2.6 "Bike Rack Installation"**. Bike rack shall be:

Model No.:	WLBR-9.
Finish:	Galvanized
No. of units:	(1)
Attachment:	Post embedment mounted into CIP concrete footing
Manufacturer:	LA Steelcraft Products Inc, or approved equal.

(626) 798-7401
1975 Lincoln Ave
Pasadena, CA 91103
www.lasteelcraft.com

219-1.8 Pet Waste Station.

Pet Waste Station shall include a post-mounted "Modern Dog Dispenser" unit with stainless steel door lock, "Modern Dog Sign" stating 'Thanks for picking up after your dog!', "Modern Dog Receptacle" waste container with stainless door lock and galvanized steel liner. All unit locks shall be keyed to have same key and open all doors to all units on site. **Install per Section 319 "Site Furnishings Installation"**. Pet waste station shall be:

Model No.: 00005-MD Kit.
Finish: Green powdercoat finish by manufacturer
No. of units: (1)
Bags: 2 rolls of 200 Biodegradable pick up litter bags.
Posts: Per complete package, 2"SQ Knock-out post
Attachment: Post-mounted into CIP concrete footing

Manufacturer: Pet Pick-Ups, Inc., or approved equal.
(303) 443-8914
P.O. Box 460547
Denver, CO 80246
www.petpickups.com

219-2 PLAY AREA COMPONENTS AND FITNESS EQUIPMENT

219-2.1 General

All materials shall be structurally sound and suitable for safe play. Durability shall be ensured on all steel parts by the use of time-tested coatings such as zinc plating, galvanizing, ProShield finish, TenderTuff coating, etc. Colors shall be provided as indicated on the plans.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F879 unless otherwise indicated (see specific product installation/specifications). All primary fasteners shall include a locking patch-type material that will meet the minimum torque requirements of IFI-125. Manufacturer to provide special tools for pinned tamperproof fasteners.

TenderTuff Coating: Metal components to be TenderTuff-coated shall be thoroughly cleaned in a hot phosphatizing pressure washer, then primed with a water-based thermosetting solution. Primed parts shall be preheated prior to dipping in UV-stabilized, liquid polyvinyl chloride (PVC), then salt cured at approximately 400 degrees Fahrenheit (200 degrees Celsius). The finished coating shall be approximately .080" (2.03 mm) thick at an 85 durometer with a minimum

tensile strength of 1700 PSI (11721.09 Kilopascals) and a minimum tear strength of 250 pounds/inch (0.028 kilonewton meters). Five standard colors are available all with a matte finish. (Brown only for HealthBeat). Not applicable for Evos. (or approved equal).

ProShield Finish: All metal components with ProShield finish shall be thoroughly cleaned and phosphatized through a five-stage power washer. Parts are then thoroughly dried, preheated and processed through a set of automatic powder spray guns where a minimum .002" (0.05 mm) of epoxy primer is applied. A minimum .004" (0.10 mm) of architectural-grade Super-Durable polyester TGIC powder is applied. The average ProShield film thickness is .006" (1.52 mm). (or approved equal).

ProShield is formulated and tested per the following ASTM standards. Each color must meet or exceed the ratings listed below:

Hardness (D3363) rating 2H

Flexibility (D522) pass 1/8" (3.17 mm) mandrel

Impact (D2794) rating minimum 80 inch-pounds (9.038 newton meters)

Salt Fog Resistance (B117 and D1654) 4,000 hours and rating 6 or greater

UV Exposure (G154, 340 bulb) 3,000 hours, rating delta E of 2, and 90 percent gloss retention

Adhesion (D3359, Method B) rating 5B

The Paint Line shall employ a "checkered" adhesion test daily.

26 standard colors are available.

Decks: All Tenderdecks shall be of modular design and have 5/16" (7.92 mm) diameter holes on the standing surface. There shall be a minimum of (4) slots in each face to accommodate face mounting of components. Tenderdecks shall be manufactured from a single piece of low carbon 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A-1011. The sheet shall be perforated with a return flange on the perimeter to provide the reinforcement to ensure structural integrity. There shall be no unsupported area larger than 3.5 square feet (0.3251 square meters). The unit shall then be TenderTuff-coated brown or gray only. Tenderdecks shall be designed so that all sides are flush with the outside edge of the supporting posts. Not applicable for Evos, Weevos or HealthBeat. (or approved equal).

Rotationally Molded Polyethylene Parts: These parts shall be molded using prime compounded linear low-density polyethylene with a tensile strength of 2500 psi (17236.9 kilopascals) per ASTM D638 and with color and UV-stabilizing additives. Wall thickness varies by product from .187" (3/16") (4.75 mm) to .312" (5/16") (7.92mm). Five standard colors are available (Black only for HealthBeat).

Permalene Parts: These parts shall be manufactured from 3/4" (19.05 mm) high-density polyethylene that has been specially formulated for optimum UV stability and color retention. Products shall meet or exceed density of .960 G/cc per ASTM D1505, tensile strength of 2400 PSI (16547.42 kilopascals) per ASTM D638. Five

standard solid colors are available. Some Permalene parts are available in a two-color product with (2) .100" (2.54 mm) thick exterior layers over a .550" (13.97 mm) interior core of a contrasting color. Eight standard two-color options are available. Not applicable for Evos or HealthBeat. (or approved equal).

Recycled Permalene Parts: These parts shall be manufactured from 3/4" (19.05 mm) high-density polyethylene that has been specially formulated for optimum UV stability and color retention. Products shall meet or exceed density of .960 G/cc per ASTM D1505, tensile strength of 2400 PSI (16547,42 Kilopascals) per ASTM D638. Available in a three-layer product with (2) .100" (2.54 mm) thick colored exterior layers over a .550" (13.97 mm) thick 100% recycled Black interior core. Eleven standard color options are available. Not applicable for Evos or HealthBeat. (or approved equal).

Footings: Unless otherwise specified, the bury on all footings shall be 34" (864 mm) below Finished Grade (FG) on all in-ground play events/posts. Other types of anchoring are available upon request.

Hardware Packages: All shipments shall include individual component-specific hardware packages. Each hardware package shall be labeled with the part number, description, a component diagram showing the appropriate component, package weight, a bar code linking the hardware package to the job number, assembler's name, date and time the package was assembled, work center number, and work order number.

Installation Documentation: All shipments shall include a notebook or packet of order-specific, step-by-step instructions for assembly of each component, including equipment assembly diagrams, estimated hours for assembly, footing dimensions, concrete quantity for direct bury components, fall height information, area required information and detailed material specifications.

Packing List: All shipments shall include a packing list for each skid/container, specifying the part numbers and quantities on each skid or within each container.

Packaging: Posts shall be individually packaged in sturdy, water-resistant, mar-resistant cardboard boxes. Other components shall be individually wrapped or bulk wrapped to provide protection during shipment. Small parts and hardware packages will be placed in crates for shipment. The components and crates are then shrink-wrapped to skids (pallets) to ensure secure shipping.

Maintenance Kit: An order-specific maintenance kit shall be provided for each structure order. The kit will include a notebook or packet with a second set of installation documents and order-specific maintenance documentation with recommendations on how often to inspect, what to look for and what to do to keep the equipment in like-new condition. The kit also includes touch-up primer, appropriate color touch-up paint, sandpaper, appropriate color touch-up PVC, graffiti remover and additional installation tools for the tamperproof fasteners.

General Specifications:

Posts: Post length shall vary depending upon the intended use and shall be a minimum of 42" (1067 mm) above the deck height. All posts shall be ProShield finished to specified color. All posts shall have a "finished grade marker" positioned on the post identifying the 34" (864 mm) bury line required for correct installation and the top of the loose fill protective surfacing. Top caps for posts shall be aluminum die cast from 369.1 alloy and ProShield finished to match the post color. All caps shall be factory installed and secured in place with (3) self-sealing rivets. A molded low-density polyethylene cap, with drain holes, shall be pressed onto the bottom end of the post to increase the footing area.

Steel Posts: All steel posts are manufactured from 5" (127 mm) O.D. tubing with a wall thickness of .120" (3.04 mm) and shall be galvanized after rolling and shall have both the I.D. and the cut ends sprayed with a corrosion resistant coating.

Steel Post Mechanical Properties:

Yield Strength (min): 50,000 PSI (344737.95 Kilopascals)

Tensile Strength (min): 55,000 PSI (379211.75 Kilopascals)

% Elongation in 2 inches (51 mm): 25

Modulus of Elasticity: 29.5 x 1,000,000 PSI (6894759.09 Kilopascals).

Aluminum Posts: All aluminum posts are manufactured from 6005-T5 extruded tubing conforming to ASTM B-221. Posts shall have a 5" (127 mm) outside diameter with a .125" (3.17 mm) wall thickness.

Aluminum Post Mechanical Properties:

Yield Strength (min): 35,000 PSI (241316.57 Kilopascals)

Tensile Strength (min): 38,000 PSI (262000.85 Kilopascals)

% Elongation in 2 inches (51 mm): 10

Modulus of Elasticity: 10 x 1,000,000 PSI (6894759.09 Kilopascals)

Arch Posts: Aluminum arch posts shall be manufactured from 6005-T5 alloy. The arch shall be formed to a 21" (533 mm) center line radius to complement the 42" (1067 mm) center to center module. The arch shall be of one continuous piece construction. There shall be no welds or additional pieces mechanically fastened to manufacture the arch. Each arch shall be designed to provide a minimum of 90 1/2" (2298.7 mm) clear span from the deck to the inside of the arch at the radius peak. Arches shall be ProShield finished to a specified color.

Clamps: All clamps are ProShield finished and, unless otherwise noted, shall be die cast using a 369.1 aluminum alloy and have the following mechanical properties:

Ultimate Tensile: 47,000 PSI (324053.68 Kilopascals)

Yield Strength: 28,000 PSI (193053.25 Kilopascals)

Elongation: 7% in 2 inches

Shear Strength: 29,000 PSI (199948.01 Kilopascals)

Endurance Limit: 20,000 PSI (137895.18 Kilopascals)

Each functional clamp assembly shall have an appropriate number of half clamps and shall be fastened to mating parts with (2) 3/8" (9,53 mm) x 1 1/8" (28,58 mm) pinned button head cap screws stainless steel (SST) and (2) SST recessed "T" nuts. A 1/4" (6.35 mm) aluminum drive rivet w/SST pin is used to ensure a secure fit to the post.

The clamps have three functional applications and shall be named as follows:

1. Offset hanger clamp assembly.
2. Deck hanger clamp assembly.
3. Hanger clamp assembly.

Cable: Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core, color specified.

Structural Frame: Post length of the double ladder/central column shall vary depending upon the deck height and shall be flush with the bottom of a deck infill or a minimum of 46" (1168 mm) above the deck height. All posts shall be ProShield finished to specified color. All posts shall have a "finished grade marker" positioned on the post identifying the 60" (1524 mm) bury line required for correct installation and the top of the loose fill protective surfacing. Post caps shall be aluminum die cast from 369.1 alloy and ProShield finished to match the post color. All caps shall be factory installed and secured in place with (3) self-sealing rivets. A molded low-density polyethylene cap, with drain holes, shall be pressed onto the bottom end of the ladder posts to increase the footing area. Ladders are bolted together below grade to act as a single column for installation purposes. The deck support weldments/arms are comprised of 5/16" (.312") (7.92 mm) steel conforming to 1010 steel per ASTM A635 and welded to a 52" (1321 mm) steel post. Arms are secured to each ladder post with (4) 5/8" (15.88 mm) x 1 1/2" (38.1 mm) pinned button head cap screws thru (2) 1/4" (6.35 mm) flanges. (or approved equal).

Optional Aluminum Roof Posts: All formed aluminum roof posts are manufactured from 6005-T5 extruded tubing conforming to ASTM B-221. Posts shall have a 5" (127 mm) outside diameter with a .125" (3.17 mm) wall thickness. Post sleeve shall have 4.675" (118.75 mm) outside diameter with a .150" (3.81 mm) wall thickness. Post cap shall be aluminum die cast from 369.1 alloy and ProShield finished to match the post color. All caps shall be factory installed and secured in place with (3) self-sealing rivets. (or approved equal).

219-2.2

2 - 5 Tot Lot Play Structure.

2 – 5 Tot Lot Play Structure shall be **Drawing no. 98183-2-3** (2-5 years area) by Landscape Structures, Inc., or an approved equal, Coast Recreation, Inc. (714) 619-0100.

2 - 5 Play Structure Components:

114665A - Arch Bridge (42")

Arch Bridge: Fabricated from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes. Finish: TenderTuff, color specified.

Panel: One-color panel measures 35 5/8" (904 mm) wide x 41" (1040 mm) high, color specified.

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

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

171569A - Mushroom Stepper 10" Height Direct Bury (DB) Only

Glass Fiber Reinforced Concrete (GFRC) Mushroom Assembly: (Support) Comprised of 2 3/8" (60.33 mm) O.D. RS40 (.130"-.140") (3.30 mm-3.56 mm) wall galvanized steel tubing. Finish: ProShield. (Mushroom Climber) Glass reinforced wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.

171571A - Mushroom Stepper 20" Height DB Only

GFRC Mushroom Assembly: (Support) Comprised of 2 3/8" (60.33 mm) O.D. RS40 (.130"-.140") (3.30 mm-3.56 mm) wall galvanized steel tubing. Finish: ProShield. (Mushroom Climber) Glass reinforced wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.

175181D - Mushroom Stepper 32" Deck with 2 Recycled Wood-Grain Handholds 1 Handloop and 1 Handrail DB Only Left Handhold

Handhold Frame: Weldment comprised of 1.125" (28.58 mm) O.D. 11 GA. (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15.88 mm) internal threads and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, tan in color.

Clamps: Cast aluminum. Finish: ProShield, color specified.

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

Handloop: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 3/8" (9.53 mm) internal thread. Finish: TenderTuff, color specified.

Handrail: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel welded inserts with 3/8" (9.53 mm) internal threads. Finish: TenderTuff, color specified.

Poly Board: Recycled high-density polyethylene, cedar and mink in color.

GFRC Mushroom Assembly: (Support) Comprised of 2 3/8" (60.33 mm) O.D. RS40 (.130"-.140") (3.30 mm-3.56 mm) wall galvanized steel tubing. Finish: ProShield. (Mushroom Climber) Glass reinforced wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.

183193A - Log Stack Climber 48" Deck w/Wood-Grain Handholds DB

Log Stack: (Base) Weldment comprised of 11 GA (.120") (3.04 mm) sheet steel. Finish: ProShield. (GFRC) Glass fiber is Alkali Resistant (AR) type glass formulated for concrete. Nominal wall thickness of 1" (25.4 mm) and weighs about 11 1/2 lbs. per square foot. Castings have a strength of 1,500 lbs. per square inch in tension and 5,000 lbs. per square inch in compression. Finish: Latex paint made for concrete, Natural colors.

Clamps: Cast aluminum. Finish: ProShield, color specified.

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

Handhold Frame: Weldment comprised of 1.125" (28.58 mm) O.D. 11 GA (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15.88 mm) internal threads and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, tan in color.

Poly Board: Recycled high-density polyethylene, cedar and mink in color.

Spacer: Extruded from 1.125" (28.58 mm) O.D. x .290" (7.37 mm) w. 6061-T6 aluminum. Finish: ProShield, tan in color.

123293B - Cozy Climber Perm Handholds 48" Deck DB

Arch: Weldment comprised of 1.315" (33.40 mm) O.D. RS-20 (.080" - .090") (2.03 mm-2.28 mm) galvanized steel tubing and 3/16" x 2 1/2" x 2 3/4" (4.75 mm x 63.5 mm x 69.85 mm) flat steel plates. Finish: ProShield, color specified.

Plank: Flange formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes. Finish: TenderTuff, color specified.

Handhold Panel: Permalene, color specified.

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

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

145839A - Critter Canyon DB

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

Support: Weldment comprised of 1.660" (42.16 mm) O.D. RS20 (.085"-.095") (2.16 mm-2.41 mm) galvanized steel tubing and fabricated 11 GA. (.120") (3.04 mm) 304 stainless steel plate. Finish: ProShield, color specified.

Insect Panel: Two color panel measures 39 1/2" (1003.3 mm) wide x 31 3/16" (792.15 mm) high, color specified.

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

Clamps: Cast aluminum. Finish: ProShield, color specified.

111228A - Square Tenderdeck

Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Square Deck: Flange formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures 2 5/8" x 47" x 47" (66.68 mm x 1194 mm x 1194 mm). Finish: TenderTuff, color specified.

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

121948A - Kick Plate 8" Rise

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

Kick Plate: Fabricated from 11 GA (.120") (3.04 mm) HR flat steel. Finish: TenderTuff, brown or gray in color.

184354A - Curved Transfer Module Right 2-5yrs 32" Deck DB

Spacer Tube: Fabricated from 6061-T6 aluminum 1 1/8" (28.58 mm) O.D. x 1 1/4" (31.75 mm). Finish: ProShield, color specified.

Spacer Tube: Made from 1 1/8" O.D. 6061-T6 aluminum tubing. Finish: ProShield, color specified.

Railings: Weldment comprised of formed 1 1/8" O.D. x 11 GA (.120") steel tubing, 3/16" thick HR flat steel, 3/16" thick HRPO steel plate and 3/4" O.D. x 11 GA (.120") stainless steel tubing. Finish: TenderTuff, color specified.

Stl. Hanger Clamp: Weldment comprised of 1/4" HRPO flat steel. Finish: ProShield, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Deck Support: Weldment comprised of 3 1/2" (88.9 mm) O.D. RS-20 (.125") (3.17 mm) galvanized steel tubing and 3/8" (9.53 mm) O.D. x 5" (127 mm) long CRS rod. Finish: ProShield, color specified.

Deck: Flange formed from 12 GA (.105") (2.66 mm) HRPO sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes and measures 29" (737 mm) per (2) sides. Finish: TenderTuff, color specified.

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

Panels: Permalene, color specified.

Step Support: Weldment comprised of 1.660" (42.16 mm) O.D. RS-20 (.080" - .095") (2.03 mm-2.41 mm) galvanized steel tubing and 1 3/4" x 1 3/4" x 1/8" (44.45 mm x 44.45 mm x 3.17 mm) HR angle. Finish: ProShield, color specified.

Step Sections/Top Step Section: Formed from 12 GA (.105") (2.66 mm) HRPO sheet steel conforming to ASTM A1011. Standing surface is 24 3/8" (619.13 mm) wide x 14" (355.6 mm) deep and is perforated with 5/16" (7.92 mm) diameter holes. Finish: TenderTuff, color specified.

No Material Spec for 115231B

115243A - Chimes Panel Above Deck

Angled Panel Bracket: Weldment comprised of .190" (4.83 mm) thick 5052 aluminum formed angle with (2) 6005-T5 aluminum threaded tubes 1 1/8" (28.58 mm) O.D. x 1 1/2" (38.1 mm) long. Finish: ProShield, color specified.

Chimes: Fabricated from 6063-T832 aluminum. Finish: Anodized per Mil - A - 8625 type 2, class 1.

Permalene Panel: One-color panel measures 35 5/8" (904.88 mm) wide x 41" (1041 mm) high, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

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

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

127681A - Image Panel - 176 Block Above Deck

Angled Panel Bracket: Weldment comprised of .190" (4.83 mm) thick 5052 aluminum formed angle with (2) 6005-T5 aluminum threaded tubes 1 1/8" (28.58 mm) O.D. x 1 1/2" (38.1 mm) long. Finish: ProShield, color specified.

Pivot Blocks: U.V. stabilized high-density polyethylene, tan on one side and brown on the other.

Rod Cover: One-color Permalene, color specified.

Steel Rod: 1/2" (12.7 mm) diameter CRS zinc plated rod.

Permalene Panel: One-color panel measures 35 5/8" (904.88 mm) wide x 41" (1041 mm) high, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

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

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

169319A - Recycled Wood-Grain Lumber Panel

Poly Board: Recycled 1 1/2" x 3 1/2" (38.1 mm x 88.9 mm) and 1 1/2" x 5 1/2" (38.1 mm x 139.7 mm) high density polyethylene, cedar or mink in color.

Barrier Rail: Weldment comprised of 1.125" (28.57 mm) O.D. 11 GA. (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15.87 mm) internal threads and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, tan in color.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Bracket: Formed from 1/4" x 1 1/4" (6.35 mm x 31.75 mm) HRPO flat steel. Finish: ProShield, tan in color.

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

111403E - 50" Alum Post For Roof DB

See **Section 219-2.1 "General"** General Specifications.

111403D - 158" Alum Post For Roof DB

See **Section 219-2.1 "General"** General Specifications.

111403C - 166" Alum Post For Roof DB

See **Section 219-2.1 "General"** General Specifications.

111404D - 124" Alum Post DB

See **Section 219-2.1 "General"** General Specifications.

111404C - 132" Alum Post DB

See **Section 219-2.1 "General"** General Specifications.

178470A - Pine Tree Accent Topper

Pine Tree Post: Weldment comprised of 5.000" (127 mm) O.D. x 11 GA. (.120") (3.05 mm) steel tube, 4.690" (117.47 mm) O.D. x 3/16" (4.75 mm) wall steel tube, 11 GA. (.120") (3.05 mm) HRPO sheet steel and 5" (127 mm) aluminum post cap. Finish: ProShield, color specified.

Accent: Two color Permalene, color specified.

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

211190D - Tree House Roof without Stack and without Kids Only sign

Roof Post Cap: Weldment comprised of 4 5/8" (117.48 mm) O.D. x 3/16" (4.75 mm) wall aluminum tube and 3/16" (4.75 mm) thick aluminum plate. Finish: ProShield, tan in color.

Roof/Trim Boards: Recycled 1 1/2" x 3 1/2" and 1 1/2" x 5 1/2" high-density polyethylene, cedar and mink in color.

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

Roof Frame: Fabricated from 3/16" x 6" (4.75 mm x 152 mm) aluminum 5052-H32 angle. Finish: ProShield, tan in color.

Roof Bracket: Fabricated from 7 GA. HRPO steel sheet. Finish: ProShield, tan in color.

168100A - Sensory Play Center Wall DB

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

Wall Plate: Fabricated from 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, color specified.

Wall Mount Plate: Weldment comprised of 2.375" (60.33 mm) O.D. RS20 (.095"-.105") (2.41 mm-2.66 mm) wall galvanized steel tubing and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, color specified.

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

168101A - Sensory Play Center Wall End DB

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

Wall Mount Plate: Weldment comprised of 2.375" (60.33 mm) O.D. RS20 (.095"-.105") (2.41 mm-2.66 mm) wall galvanized steel tubing and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, color specified.

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

168102A - Alphamaze and Labyrinth Panel

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

Permalene Panels: Recycled Permalene, color specified.

168104A - Optigear Panel

Ring Panel: Two color Permalene panel, color specified.

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

Optigear Panel Assy.: (Panels) Two color Permalene, color specified. (Poly Panel) .236" (5.99 mm) thick clear polycarbonate, 3/8" (9.53 mm) threaded rod and 3/16" (4.75 mm) SST plate.

168661A - Sensory Play Station Plate

Wall Plate: Fabricated from 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, color specified.

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

177721A - Rain Sound Wheel Panel

Rain Sound

Wheel Panel Assy.: Assembly comprised of (Permalene Panels), color specified. (Shaft) 1" (25 mm) diameter x 4 3/4" (120.65 mm) long stainless steel. (Inner & Outer Rings) 16 GA. (.059") (1.50 mm) HRPO sheet steel. Finish: ProShield, color specified. (Brackets) 16 GA. (.059") (1.50 mm) HRPO sheet steel. Finish: Zinc plate with clear chromate finish. (Spacer) 3/4" (19.05 mm) diameter x 2 1/8" (53.98 mm) long stainless steel. (Flange Oilite Bearing) 1.625" (41.28 mm) diameter x 1.000" (25 mm) long.

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

182503A - Welcome Sign (LSI Provided) Ages 2-5 years Direct Bury

Sign Panel: Panel is fabricated from 1/8" (.125") (3.17 mm) aluminum plate. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a 1/8" (.125") (3.17 mm) ProShield coated aluminum plate, then infused into the ProShield.

Post: Weldment comprised 2.375" (60.33 mm) O.D. RS20 (.095-.105) (2.41 mm-2.67 mm) wall galvanized tube, 1/4" (6.35 mm) HRPO steel sheet and aluminum post cap. Finish: ProShield, color specified.

Border: Permalene, black in color.

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

122033D - SpyroSlide 56" with Hanger Bracket DB

Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

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

Rail: 1 1/8" (28.58 mm) O.D. 6061-T6 aluminum extrusion with 5/16" (7.92 mm) walls. Finish: ProShield, color specified.

Barrier Plates: Fabricated from 1/4" x 1 1/2" (6.35 mm x 38.1 mm) zinc plated HRPO flat steel. Finish: ProShield, color specified.

Center Column: Fabricated from 3.500" (88.9 mm) O.D. RS-20 (.120" - .130") (3.04 mm-3.30 mm) galvanized steel tubing. Finish: ProShield, color specified.

Entrance Deck: Flange formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes and measures 31 3/4" (806.45 mm) wide x 36 27/32" (935.81 mm) long. Finish: TenderTuff, color specified.

Exit Support: Weldment comprised of 2.375" (60.33 mm) O.D. RS-20 (.095" - .105") (2.41 mm-2.66 mm) galvanized steel tubing and 1/4" (6.35 mm) thick zinc plated HRPO flat steel. Finish: ProShield, color specified.

Slide, Hood & Barriers: Rotationally molded from U.V. stabilized linear low-density polyethylene, color specified.

Handbar: Formed from 7/8" (22.23 mm) O.D. x 11 GA (.120") (3.04 mm) black steel tubing. Finish: TenderTuff, brown in color.

Hanger Bracket: Formed from 11 GA (.120") (3.04 mm) HRPO low carbon sheet steel. Finish: TenderTuff, color specified.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

130798A - Double Swirl Slide 48" Deck DB

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

Rail: Extruded from 1.125" (28.58 mm) O.D. x .312" (7.92 mm) wall. 6005-T5 aluminum. Finish: ProShield, color specified.

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

Mid-Support: Weldment comprised of 1.660" (42.16 mm) O.D. RS-20 (.085" - .095") (2.16 mm-2.41 mm) galvanized steel tubing and 1/4" x 3" (6.35 mm x 76 mm) mounting plate. Finish: ProShield, color specified.

Rail Spacer: Fabricated from 1.312" (33.32 mm) O.D. x 16 GA (.065") (1.65 mm) steel tubing. Finish: ProShield, color specified.

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

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Slide Support: Weldment comprised of 2.375" (60.33 mm) O.D. RS-20 (.095" - .105") (2.41 mm-2.66 mm) galvanized steel tubing and 1/4" x 3" (6.35 mm x 76 mm) mounting plate. Finish: ProShield, color specified.

164075B - Double Bobble Rider DB

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

Bobble Rider: Weldment comprised of 1.315" (33.40 mm) O.D. RS20 (.080"-.090") (2.03 mm-2.28 mm) wall galvanized steel tubing, 2.375" (60.32 mm) O.D. RS20 (.095"-.105") (2.41 mm-2.66 mm) wall galvanized steel tubing, 3/8" (9.52 mm) HRPO steel plate, 1/4" (6.35 mm) HRPO steel plate, and 4" (101 mm) diameter 10 GA. (.135") (3.42 mm) low carbon steel ball. Finish: ProShield, color specified.

Spring: Weldment comprised of 5 5/8" (142.87 mm) diameter 13/16" (20.63 mm) tempered alloy steel coil. Finish: ProShield, black in color.

Footer: Weldment comprised of 3.500" (88.9 mm) O.D. RS20 (.120"-.130") (3.04 mm-3.30 mm) wall galvanized steel tubing and 1/4" x 10" x 17" (6.35 mm x 254 mm x 431 mm) sheet HRPO steel. Finish: ProShield, black in color.

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

219-2.3 5-12 Tot Lot Play Structure.

5-12 Tot Lot Play Structure shall be **Drawing no. 98183-2-3** (5-12 years) by Landscape Structures, Inc., or an approved equal, Coast Recreation, Inc. (714) 619-0100.

5-12 Play Structure Components:

No Material Spec for 193173C

No Material Spec for 111812A

156070A - Pinnacle Ext Deck

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

Barrier: Fabricated from 7 GA. (.188") (4.77 mm) HR zinc plated flat steel. Finish: TenderTuff, color specified.

Extension Deck: Flange formed from 12 GA. (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.94 mm) diameter holes. Finish: TenderTuff, color specified.

Kick Plate: Permalene, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

169318B - Wood Plank Wiggle Ladder 40" Deck with Recycled Wood-Grain Handholds DB

Clamps: Cast aluminum. Finish: ProShield, color specified.

Handhold Frame: Weldment comprised of 1.125" (28.58 mm) O.D. 11 GA. (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15.88 mm) internal threads and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, tan in color.

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

Poly Board: Recycled high-density polyethylene, cedar and mink in color.

Chain/ProGuard: Steel 3/16" (4.75 mm) straight link chain, 800 lb. (362.87 kilograms) working load limit. Finish: ProGuard.

Chain/ProGuard: Steel 3/16" (4.75 mm) straight link chain, 800 lb. (362.87 kilograms) working load limit. Finish: ProGuard.

Support (DB): Fabricated from 1.315" (33.40 mm) O.D. RS20 (.080"-.090") (2.03 mm - 2.28 mm) galvanized steel tubing.

169320D - Log Stepper 40" Deck with 2 Recycled Wood-Grain Handholds 1 Handloop and 1 Handrail DB Only Right Handhold

Handhold Frame: Weldment comprised of 1.125" (28.58 mm) O.D. 11 GA. (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15.88 mm) internal threads and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, tan in color.

Clamps: Cast aluminum. Finish: ProShield, color specified.

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

Handloop: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 3/8" (9.53 mm) internal thread. Finish: TenderTuff, color specified.

Handrail: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel welded inserts with 3/8" (9.53 mm) internal threads. Finish: TenderTuff, color specified.

Poly Board: Recycled high-density polyethylene, cedar and mink in color.

Log Stepper Assy.: (Footer Post) Weldment comprised of 5" (127 mm) O.D. x 11 GA. (.120") (3.04 mm) wall galvanized steel tubing and 3/16" (4.75 mm) HRPO steel plate. Finish: ProShield, color specified. (Log Stepper-fully assembled) Glass reinforced wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.

169322A - Discovery Tree Climb with Aluminum Post with Roof DB Only

Poly Board: Recycled 1 1/2" x 3 1/2" (38.1 mm x 88.9 mm) and 1 1/2" x 5 1/2" (38.1 mm x 139.7 mm) high density polyethylene, cedar or mink in color.

Handhold Frame: Weldment comprised of 1.125" (28.58 mm) O.D. 11 GA. (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15.88 mm) internal threads and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, tan in color.

Clamps: Cast aluminum. Finish: ProShield, color specified.

See **Section 219-2.1 "General"** General Specifications.

Hose Clamp: Band and housing made from 300 series stainless steel. Slotted screw with hex head and safety collar is cadmium-plated carbon steel.

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

Spacer Tube: Made from 1 1/8" (28.58 mm) O.D. 6061-T6 aluminum tube. Finish: ProShield, tan in color.

Tree Climb Assy.: (Frame) Weldment comprised of 5" (127 mm) O.D. x 11 GA. (.120") (3.04 mm) wall galvanized steel tubing, 2.375" (60.33 mm) O.D. RS20 (.095"-.105") (2.41 mm-2.66 mm) wall galvanized steel tubing, 1/4" (6.35 mm) HRPO steel plate, 3/16" (4.75 mm) HRPO steel plate, 18" (457 mm) O.D. 1/4" (.250") (6.35 mm) wall steel tube. Finish: ProShield. (Talk Tube Plate) Weldment comprised of 1.250" (31.75 mm) O.D. x 11 GA. (.120") (3.04 mm) black steel tube and 12 Ga. (.105") (2.66 mm) HRPO flat steel. Finish: ProShield, color specified. (Tree Climb-fully assembled) Castings are made from Glass Fiber Reinforced Concrete (GFRP). Glass fiber is Alkali Resistant (AR) type glass formulated for concrete. Nominal wall thickness of 1" (25 mm) and weighs about 11 1/2 lbs. (5.22 kilograms) per square foot. Castings have a strength of 1,500 lbs. (680.39 kilograms) per square inch in tension and 5,000 lbs. (2267.96 kilograms) per square inch in compression. Finish: Latex paint made for concrete, natural colors.

172666A - Corkscrew Climber with Recycled Wood-Grain Handholds 48" Deck DB

Handhold Frame: Weldment comprised of 1.125" (28.58 mm) O.D. 11 GA. (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15.88 mm) internal threads and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, tan in color.

Clamps: Cast aluminum. Finish: ProShield, color specified.

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

Poly Board: Recycled high-density polyethylene, cedar and mink in color.

Corkscrew: Weldment comprised of 1.900" (48.26 mm) O.D. RS-20 (.090"-.100") (2.28 mm-2.54 mm) galvanized steel tubing, and 1.315" (33.40 mm) O.D. RS-20 (.080"-.090") (2.03 mm-2.28 mm) galvanized steel tubing. Finish: ProShield, color specified.

174450A - AdventureScapes Design 1 DB Only

Support Brace: Weldment comprised of 1.660" (42.16 mm) O.D. RS20 (.085"-.095") (2.16 mm-2.41 mm) wall galvanized steel tube and 3/16" (4.75 mm) HRPO steel sheet. Finish: ProShield, black in color.

Outrigger Net Assy.: (Net) Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core. (Cord Connectors) fabricated from 1.25" (31.75 mm) O.D. 6063-T6 aluminum and (T-Connectors) fabricated from 6063-T6 aluminum.

Footer Weldment comprised of 1.660" (42.16 mm) O.D. RS20 (.085"-.095") (2.15 mm-2.1 mm) wall galvanized steel tubing and 3/16" (4.74 mm) HRPO sheet steel. Finish: ProShield, black in color.

Rock Pocket Cover: Fabricated from 13 Ga. (.090") (2.29 mm) HRPO flat steel conforming to ASTM A1011. Finish: Zinc plate with yellow chromate finish.

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

Turnbuckle: Fabricated from forged galvanized steel.

The Pointe Assy.: (Base) Weldment comprised of 7 GA. (.179") (4.54 mm) HRPO sheet steel, C8 x 13.75 steel channel, 3" x 1 1/2" x .120" (76 mm x 38.1 mm x 3.04 mm) wall galvanized steel tube and 1 1/8" (28.58 mm) square bar. Finish: ProShield. (Pointe-fully assembled) Castings are made from Glass Fiber Reinforced Concrete (GFRC). Glass fiber is Alkali Resistant (AR) type glass formulated for concrete. Nominal wall thickness of 1" (25 mm) and weighs about 11 1/2 lbs. (5.22 kilograms) per square foot. Castings have a strength of 1,500 lbs. (680.39 kilograms) per square inch in tension and 5,000 lbs. (2267.96 kilograms) per square inch in compression. Finish: Acid stain and latex paint made for concrete, Natural in color.

116247A - Vertical Ladder - Panel 24"

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

HandholdPanel/Vertical Ladder: One-color Permalene, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

116247B - Vertical Ladder - Panel 32"

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

Handhold Panel/Vertical Ladder: One-color Permalene, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

116249A - Vertical Ladder 32" Deck DB

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

Handhold Panel: Permalene, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

Vertical Ladder: Weldment comprised of 1.125" (2858 mm) O.D. x 11 GA (.120") (3.04 mm) steel tubing, 1.029" (26.14 mm) O.D. RS-20 (.070" - .080") (1.78 mm-2.03 mm) and 3/16" x 2" (4.75 mm x 51 mm) wide steel flat plates. Finish: TenderTuff, color specified.

Footer: Fabricated from 1.315" (33.40 mm) O.D. RS-20 (.080" - .090") (2.03 mm-2.28 mm) galvanized steel tubing. Finish: ProShield, color specified.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

152908B - Deck Link with Handrails Permalene Infill Panel 2 Steps

Step Section: Formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is 24 1/4" (615.95 mm) wide x 14" (356 mm) deep and is perforated with 5/16" (7.94 mm) diameter holes. Finish: TenderTuff, color specified.

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

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

Handrail: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel welded inserts with 3/8" (9.53 mm) internal threads. Finish: TenderTuff, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Panels: Permalene, color specified.

152908C - Deck Link with Handrails Permalene Infill Panel 3 Steps

Step Section: Formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is 24 1/4" (615.95 mm) wide x 14" (356 mm) deep and is perforated with 5/16" (7.94 mm) diameter holes. Finish: TenderTuff, color specified.

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

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

Handrail: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel welded inserts with 3/8" (9.53 mm) internal threads. Finish: TenderTuff, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Panels: Permalene, color specified.

176079A - Sunbeam Climber

Clamps: Cast aluminum. Finish: ProShield, color specified.

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

Handloop: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 3/8" (9.53 mm) internal thread. Finish: TenderTuff, color specified.

Panels: Permalene, color specified.

Barrier: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.04 mm) steel tube per ASTM A513 with 203 or 303 stainless steel welded inserts with 5/8" (15.88 mm) internal threads and 1/4" (6.35 mm) tabs. Finish: TenderTuff, color specified.

Sunbeam Climber: Weldment comprised of 1.315" (33.40 mm) O.D. RS20 (.080"-.090") (2.03 mm-2.28 mm) wall galvanized steel tube, 2.375" (60.33 mm) O.D. RS40 (.130"-.140") (3.30 mm-3.56 mm) wall galvanized steel tube, and 1/4" (6.35 mm) HRPO steel sheet. Finish: ProShield, color specified.

111228A - Square Tenderdeck

Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Square Deck: Flange formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures 2 5/8" x 47" x 47" (66.68 mm x 1194 mm x 1194 mm). Finish: TenderTuff, color specified.

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

111231A - Triangular Tenderdeck

Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Triangular Deck: Flange formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures 2 5/8" x 37 3/4" (66.68 mm x 958.85 mm). Finish: TenderTuff, color specified.

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

119646A - Tri-Deck Extension

Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

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

Triangular Deck Extension: Flange formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size of two of the three sides measures 2 5/8" x 37 7/8" (66.68 mm x 962.03 mm) on the face of the deck and the other side measures 2 5/8" x 43 3/4" (66.68 mm x 1111.25 mm). Finish: TenderTuff, color specified.

121948A - Kick Plate 8" Rise

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

Kick Plate: Fabricated from 11 GA (.120") (3.04 mm) HR flat steel. Finish: TenderTuff, brown or gray in color.

121949A - Tri-Deck Kick Plate 8" Rise

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

Kick Plate: Fabricated from 11 GA (.120") (3.04 mm) HR flat steel. Finish: TenderTuff, brown or gray in color.

122197A - 90* Triangular Tenderdeck

Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Triangular Deck: Flange formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures 2 5/8" x 37 3/4" (66.68 mm x 958.85 mm). Finish: TenderTuff, color specified.

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

185852A - Transfer Step with 2 Handloops DB

Clamps: Cast aluminum. Finish: ProShield, color specified.

Step: Formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Finish: TenderTuff, color specified.

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

Handloop: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.05 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15.88 mm) internal thread. Finish: TenderTuff, color specified.

Step Support: Weldment comprised of 1.660" (42.16 mm) O.D. RS-20 (.080" - .095") (2.03 mm-2.41 mm) galvanized steel tubing and 1 3/4" x 1 3/4" x 1/8" (44.45 mm x 44.45 mm x 3.17 mm) HR angle. Finish: ProShield, color specified.

123319A - Hourglass Panel Above Deck

Angled Panel Bracket: Weldment comprised of .190" (4.83 mm) thick 5052 aluminum formed angle with (2) 6005-T5 aluminum threaded tubes 1 1/8" (28.58 mm) O.D. x 1 1/2" (38.1 mm) long. Finish: ProShield, color specified.

Hour Glass Beads: #40 stainless steel beads.

Permalene Panel: One-color panel measures 35 5/8" (904.88 mm) wide x 41" (1041 mm) high, color specified.

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

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

Hour Glass: Vacuum formed, clear polycarbonate.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

169319A - Recycled Wood-Grain Lumber Panel

Poly Board: Recycled 1 1/2" x 3 1/2" (38.1 mm x 88.9 mm) and 1 1/2" x 5 1/2" (38.1 mm x 139.7 mm) high density polyethylene, cedar or mink in color.

Barrier Rail: Weldment comprised of 1.125" (28.57 mm) O.D. 11 GA. (.120") (3.04 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15.87 mm) internal threads and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, tan in color.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Bracket: Formed from 1/4" x 1 1/4" (6.35 mm x 31.75 mm) HRPO flat steel. Finish: ProShield, tan in color.

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

111362A - Talk Tube 40' Tubing Kit Play Booster

Hose Clamp: Band and housing made from 300 series stainless steel. Slotted screw with hex head and safety collar is cadmium-plated carbon steel.

Talk Tube Hose: Made from 1.75" (44.45 mm) O.D. HDPE conduit.

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

111363A - Talk Tube At Grade Mounted DB Only

Bug Screen: Weave .011 (0.28 mm) Ga. charcoal fiberglass screen.

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

Talk Tube: Weldment comprised of 1.600" (42.16 mm) O.D. RS20 (.085" - .095") (2.16 mm-2.41 mm) galvanized steel tubing, 14 GA. (.079") (2.00 mm) cold rolled steel sheet zinc plate, and 3/16" (4.75 mm) HRPO steel sheet. Finish: ProShield, color specified.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Talk Tube Cover: One-color Permalene, Tan in color.

120901A - Grab Bar

Half Clamp: Cast aluminum. Finish: ProShield, color specified.

Grab Bar: Weldment comprised of formed 7/8" (22.23 mm) O.D. x 11 GA (.120") (3.04 mm) and 1/4" x 1 3/4" (6.35 mm x (44.45 mm) stainless steel half clamps. Finish: TenderTuff, color specified.

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

160054C - Stationary Cyclor Pedals & Handles

Pedals: High density polyethylene, black in color.

Handholds: High density polyethylene, black in color.

Cyclor Bar: Weldment comprised of formed 1.25" (31.75 mm) O.D. x 12 GA. (.109") (2.77 mm) wall galvanized steel tubing, 12 GA. (.105") (2.66 mm) sheet HRPO and 1.00" (25 mm) 1018 steel. Finish: ProShield, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

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

201545A - Blender Spinner DB

Support Arm: Weldment comprised of 2.375" (60.33 mm) O.D. RS40 (.130"-.140") (3.30 mm – 3.56 mm) wall galvanized steel tube, 2.750" (69.85 mm) O.D. 1018 steel, and 1/4" (6.35 mm) HRPO flat steel. Finish: ProShield, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Bushing: Oil-filled UHMW PE.

Footer: Weldment comprised of 2.375" (60.32 mm) O.D. RS40 (.130"-.140") (3.30 mm-3.56 mm) wall galvanized steel tube, 12 GA. (.105") (2.66 mm) HR flat steel and 1 7/8" (47.62 mm) steel ball. Finish: ProShield, color specified.

111353A - Track Ride

Half Clamp: Cast aluminum. Finish: ProShield, color specified.

Beam: Extruded from 6005-T5 aluminum alloy. Finish: ProShield, color specified.

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

Trolley Assembly: Steel body with a 7/8" (22.22 mm) O.D. x .120" (3.04 mm) wall steel tubing handle assembly. Four urethane roller skate wheels and tivar guide block. Completely assembled. Steel Body Finish: TenderTuff, brown in color.

120872A - Swing Out

Half Clamp: Cast aluminum. Finish: ProShield, color specified.

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

Ring Swing Out: Weldment comprised of 1.125" (28.58 mm) O.D. x 11 GA (.120") (3.04 mm) black tubing and 2" (50.8 mm) O.D. x 1.50" (38.1 mm) I.D. stainless steel housing. Finish: TenderTuff, color specified.

Support Beam: Weldment comprised of 2.375" (60.32 mm) O.D. RS-40 (.130" - .140") (3.30 mm-3.56 mm) galvanized steel tubing, 1.315" (33.40 mm) O.D. RS-20 (.080" - .090") (2.03 mm-2.28 mm) galvanized steel tubing and 1.250" (31.75 mm) diameter grade 304 stainless steel shaft. Finish: ProShield, color specified.

111403E - 150" Alum Post For Roof DB

See **Section 219-2.1 "General"** General Specifications.

111403A - 182" Alum Post For Roof DB

See **Section 219-2.1 "General"** General Specifications.

111404O - 132" Steel Post DB

See **Section 219-2.1 "General"** General Specifications.

111404H - 92" Alum Post DB

See **Section 219-2.1 "General"** General Specifications.

111404G - 100" Alum Post DB

See **Section 219-2.1 "General"** General Specifications.

111404F - 108" Alum Post DB

See **Section 219-2.1 "General"** General Specifications.

111404E - 116" Alum Post DB

See **Section 219-2.1 "General"** General Specifications.

111404D - 124" Alum Post DB

See **Section 219-2.1 "General"** General Specifications.

111404C - 132" Alum Post DB

See **Section 219-2.1 "General"** General Specifications.

111404B - 140" Alum Post DB

See **Section 219-2.1 "General"** General Specifications.

211190D - Tree House Roof without Stack and without Kids Only sign

Roof Post Cap: Weldment comprised of 4 5/8" (117.48 mm) O.D. x 3/16" (4.75 mm) wall aluminum tube and 3/16" (4.75 mm) thick aluminum plate. Finish: ProShield, tan in color.

Roof/Trim Boards: Recycled 1 1/2" x 3 1/2" and 1 1/2" x 5 1/2" high-density polyethylene, cedar and mink in color.

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

Roof Frame: Fabricated from 3/16" x 6" (4.75 mm x 152 mm) aluminum 5052-H32 angle. Finish: ProShield, tan in color.

Roof Bracket: Fabricated from 7 GA. HRPO steel sheet. Finish: ProShield, tan in color.

182503C - Welcome Sign (LSI Provided) Ages 5-12 years Direct Bury

Sign Panel: Panel is fabricated from 1/8" (.125") (3.17 mm) aluminum plate. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a 1/8" (.125") (3.17 mm) ProShield coated aluminum plate, then infused into the ProShield.

Post: Weldment comprised 2.375" (60.33 mm) O.D. RS20 (.095-.105) (2.41 mm-2.67 mm) wall galvanized tube, 1/4" (6.35 mm) HRPO steel sheet and aluminum post cap. Finish: ProShield, color specified.

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

122033A - SpyroSlide 72" Deck DB

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

Rail: 1 1/8" (28.58 mm) O.D. 6061-T6 aluminum extrusion with 5/16" (7.92 mm) walls. Finish: ProShield, color specified.

Barrier Plates: Fabricated from 1/4" x 1 1/2" (6.35 mm x 38.1 mm) zinc plated HRPO flat steel. Finish: ProShield, color specified.

Center Column: Fabricated from 3.500" (88.9 mm) O.D. RS-20 (.120" - .130") (3.04 mm-3.30 mm) galvanized steel tubing. Finish: ProShield, color specified.

Entrance Deck: Flange formed from 12 GA (.105") (2.66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7.92 mm) diameter holes and measures 31 3/4" (806.45 mm) wide x 36 27/32" (935.81 mm) long. Finish: TenderTuff, color specified.

Exit Support: Weldment comprised of 2.375" (60.33 mm) O.D. RS-20 (.095" - .105") (2.41 mm-2.66 mm) galvanized steel tubing and 1/4" (6.35 mm) thick zinc plated HRPO flat steel. Finish: ProShield, color specified.

Slide, Hood & Barriers: Rotationally molded from U.V. stabilized linear low-density polyethylene, color specified.

Handbar: Formed from 7/8" (22.23 mm) O.D. x 11 GA (.120") (3.04 mm) black steel tubing. Finish: TenderTuff, brown in color.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

123333A - Rollerslide 40" Deck DB

Rail Spacer: Fabricated from 1.312" (33.32 mm) O.D. x 16 GA (.065") (1.65 mm) steel tubing. Finish: ProShield, color specified.

Rail: 1 1/8" (28.58 mm) O.D. 6061-T6 aluminum extrusion with 5/16" (7.92 mm) walls. Finish: ProShield, color specified.

Rollers: Fabricated from 1.900" (48.26 mm) O.D. x 16 GA (.060") (1.52 mm) galvanized steel tubing. Finish: TenderTuff, color specified.

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

Rails: Extruded from 6005-T1 aluminum. Finish: ProShield, color specified.

Roller Shafts: Fabricated from 1/2" (305 mm) diameter CRS zinc-plated with yellow chromate finish.

Support Leg: Fabricated from 1.900" (48.26 mm) O.D. RS-20 (.090" - .100") (2.28 mm-2.54 mm) galvanized steel tubing. Finish: ProShield, color specified.

Top Plate: Formed from 10 GA (.135") (3.43 mm) 304-2B SST. Finish: TenderTuff, color specified.

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

Tube: 1 1/8" O.D. x 1 5/8" long aluminum tube. Finish: ProShield, color specified.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

119641A - Wire Crawl Tunnel Above Deck

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

Angled Panel Bracket: Weldment comprised of .190" (4.83 mm) thick 5052 aluminum formed angle with (2) 6005-T5 aluminum threaded tubes 1 1/8" (28.58 mm) O.D. x 1 1/2" (38.1 mm) long. Finish: ProShield, color specified.

Permalene Panel: One-color panel measures 35 5/8" (904.88 mm) wide x 41" (1041 mm) high, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22.23 mm) O.D. x 1 11/16" (42.85 mm). Finish: ProShield, color specified.

Rings: One-color Permalene, color specified.

Wire Tunnel: Formed from 1/4" (6.35 mm) diameter wire with 2" x 3" (51 mm x 76 mm) openings. Wire tunnel measures 28" (711 mm) in diameter and 35 3/8" (898.53 mm) long. Finish: TenderTuff, color specified.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

219-2.4

Fitness Equipment

Fitness equipment shall be **Drawing No. 98183-2-3** by Landscape Structures, Inc., or an approved equal, Coast Recreation, Inc. (714) 619-0100.

Fitness Equipment Components:

192451A - Ab Crunch/Leg Lift DB Order Post Separately*

Bench Support: Weldment comprised of 1.900" (48.26 mm) O.D. RS40 (.120"-.130") (3.04 mm-3.30 mm) wall galvanized steel tube, and 1/4" (6.35 mm) HRPO sheet steel. Finish: ProShield, color specified.

Bench Frame: Weldment comprised of 1.900" (48.26 mm) O.D. RS40 (.120"-.130") (3.04 mm-3.30 mm) wall galvanized steel tube, 1/4" (6.35 mm) HRPO sheet steel and 3/16" (4.75 mm) HRPO sheet steel. Finish: ProShield, color specified.

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

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

Bench/Seat: Rotationally molded from U.V. stabilized linear low density polyethylene, black in color.

Sit-Up/Footrest: Weldment comprised of 1.660" (42.16 mm) O.D. RS20 (.085"-.095") (2.16 mm-2.41 mm) wall galvanized steel tube, 1.029" O.D. RS20 (.070"-.080") (1.78 mm-2.03 mm) wall, and 3/16" (4.75 mm) HRPO sheet steel. Finish: ProShield, color specified.

192452A - Assisted Row/Push-Up DB Order Post Separately*

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

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

Rail: Weldment comprised of 1.660" (42.16 mm) O.D. RS20 (.085"-.095") (2.16 mm-2.41 mm) wall galvanized steel tube, 3/16" (4.75 mm) HRPO sheet steel and 1/4" (6.35 mm) HRPO sheet steel. Finish: ProShield, color specified.

192454A - Balance Steps DB Order Post Separately*

Handrail: Weldment comprised of 1.660" (42.16 mm) O.D. RS40 (.111"-.121") (2.81 mm-3.07 mm) wall galvanized steel tube, and 3/16" (4.75 mm) HRPO sheet steel. Finish: ProShield, color specified.

Balance Step Base: Weldment comprised of 1.900" (48.26 mm) O.D. RS40 (.120"-.130") (3.04 mm-3.30 mm) wall galvanized steel tube, and 1/4" (6.35 mm) HRPO sheet steel. Finish: ProShield, color specified.

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

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

Step: Rotationally molded from U.V. stabilized linear low density polyethylene, black in color.

192456A - Chest/Back Press DB Order Post Separately*

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

Resistance Knob: Aluminum. Finish: ProShield, black in color.

Resistance Assy.: Resistance mechanism features wear-resistant composites that provide bi-directional resistance. Mechanism is mounted in a housing comprised of 3/4" (19.05 mm) thick steel plate and 11 GA. (.120") (3.05 mm) thick steel cover. Finish: ProShield, color specified.

Shaft Clamp: Stainless steel. Finish: ProShield, color specified.

Frame: Weldment comprised of 1.660" (42.16 mm) O.D. RS40 (.111"-.121") (2.81 mm-3.07 mm) wall galvanized steel tube, 7 GA. (.179") (4.54 mm) thick HRPO steel sheet and 1/4" (6.35 mm) thick HRPO sheet steel. Finish: ProShield, color specified.

Hand Bar: Weldment comprised of 1.660" (42.16 mm) O.D. RS40 (.111"-.121") (2.81 mm-3.07 mm) wall galvanized steel tube, and .875" (22.22 mm) thick stainless steel. Finish: ProShield, color specified.

Chest Back/Seat Spacer: Recycled Permalene, color specified.

Back Support/Seat: Rotationally molded from U.V. stabilized linear low density polyethylene, black in color.

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

192459A - Plyometrics DB Order Post Separately*

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

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

Frame: Weldment comprised of 2.375" (60.33 mm) O.D. RS20 (.095"-.105") (2.41 mm-2.66 mm) wall galvanized steel tube and 1/4" (6.35 mm) HRPO sheet steel. Finish: ProShield, color specified.

Bench/Seat: Rotationally molded from U.V. stabilized linear low density polyethylene, black in color.

192460A - Pull-Up/Dip DB Order Post Separately*

Pull-Up Bar: Weldment comprised of 1.660" (42.16 mm) O.D. RS40 (.111"-.121") (2.81 mm-3.07 mm) wall galvanized steel tube, 1/4" (6.35 mm) HRPO sheet steel and 3/16" (4.75 mm) HRPO sheet steel. Finish: ProShield, color specified.

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

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

192462A - Stretch DB Order Post Separately*

Top Rail: Weldment comprised of 1.315" (33.4 mm) O.D. RS20 (.080" - .090") (2.03 mm-2.29 mm) galvanized steel tubing and 1.900" (48.26 mm) O.D. RS40 (.120" - .130") (3.05 mm-3.30 mm) galvanized steel tubing. Finish: ProShield, color specified.

Ground Pipe Assy.: Comprised of 1.660" O.D. schedule 80 black pipe, and oil impregnated bronze bearings.

Upright Post Assy. Weldment comprised 1.900" (48.26 mm) O.D. RS40 (.120" - .130") (3.05 mm-3.30 mm) galvanized steel tubing and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, color specified.

Upright Post Assy.: Weldment comprised 1.900" (48.26 mm) O.D. RS40 (.120" - .130") (3.05 mm-3.30 mm) galvanized steel tubing, 1/4" (6.35 mm) HRPO steel plate and 7 GA. (.179") (4.55 mm) HRPO sheet steel. Finish: ProShield, color specified.

End Post: Weldment comprised 1.900" (48.26 mm) O.D. RS40 (.120" - .130") (3.05 mm-3.30 mm) galvanized steel tubing and 1.315" (33.4 mm) O.D. RS20 (.080" - .090") (2.03 mm-2.29 mm) galvanized steel tubing. Finish: ProShield, color specified.

Upright Post Assy. Weldment comprised 1.900" (48.26 mm) O.D. RS40 (.120" - .130") (3.05 mm-3.30 mm) galvanized steel tubing and 1/4" (6.35 mm) HRPO steel plate. Finish: ProShield, color specified.

Upright Post Assy.: Weldment comprised 1.900" (48.26 mm) O.D. RS40 (.120" - .130") (3.05 mm-3.30 mm) galvanized steel tubing, 1/4" (6.35 mm) HRPO steel plate and 7 GA. (.179") (4.55 mm) HRPO sheet steel. Finish: ProShield, color specified.

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

Swivel Plate: Weldment comprised of 2.375" (60.33 mm) O.D. x .188" (4.78 mm) wall steel tubing, and 1/4" (6.35 mm) HRPO steel sheet. Finish: ProShield, color specified.

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

Foot Pad: Rotationally molded from U.V. stabilized linear low density polyethylene, black in color.

Foot Pad: Rotationally molded from U.V. stabilized linear low density polyethylene, black in color.

205941A - Steel Post with No Attachment DB

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

Post: Weldment comprised of 5.000" (127 mm) O.D. 11 GA. (.120") (3.05 mm) wall galvanized steel tubing, 1.315" (33.4 mm) O.D. RS20 (.080" - .090") (2.03 mm-2.28 mm) wall galvanized steel tubing, 1/4" (6.35 mm) HRPO steel sheet and 5" (127 mm) O.D. aluminum post cap. Finish: ProShield, carbon in color.

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

205942A - Steel Post with 1 Top Attachment DB

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

Post: Weldment comprised of 5.000" (127 mm) O.D. 11 GA. (.120") (3.05 mm) wall galvanized steel tubing, 1.315" (33.4 mm) O.D. RS20 (.080" - .090") (2.03 mm-2.28 mm) wall galvanized steel tubing, 1/4" (6.35 mm) HRPO steel sheet and 5" (127 mm) O.D. aluminum post cap. Finish: ProShield, carbon in color.

Attachment Cover: Fabricated from A356 sand casted aluminum. Finish: Proshield, carbon in color.

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

205944A - Steel Post with 2 and 0 Attachments DB

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

Post: Weldment comprised of 5.000" (127 mm) O.D. 11 GA. (.120") (3.05 mm) wall galvanized steel tubing, 1.315" (33.4 mm) O.D. RS20 (.080" - .090") (2.03 mm-2.28 mm) wall galvanized steel tubing, 1/4" (6.35 mm) HRPO steel sheet and 5" (127 mm) O.D. aluminum post cap. Finish: ProShield, carbon in color.

Attachment Cover: Fabricated from A356 sand casted aluminum. Finish: Proshield, carbon in color.

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

205947A - Steel Post w/3 Attachments DB

Sign Panel: Panel is fabricated from 11 GA. (.120") (3.05 mm) aluminum. Finish: ProShield, gray in color. (Sign) Digital image is transferred to a .120" (3.05 mm) thick ProShield coated aluminum plate, then infused into the ProShield.

Post: Weldment comprised of 5.000" (127 mm) O.D. 11 GA. (.120") (3.05 mm) wall galvanized steel tubing, 1.315" (33.4 mm) O.D. RS20 (.080" - .090") (2.03 mm-2.28 mm) wall galvanized steel tubing, 1/4" (6.35 mm) HRPO steel sheet and 5" (127 mm) O.D. aluminum post cap. Finish: ProShield, carbon in color.

Attachment Cover: Fabricated from A356 sand casted aluminum. Finish: Proshield, carbon in color.

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

No Material Spec for 207607A

219-2.5

Warranty

100-YEAR LIMITED WARRANTY

On all aluminum posts, stainless steel fasteners, clamps, beams and caps, against structural failure due to corrosion/natural deterioration or manufacturing defects, and on steel posts and arches against structural failure due to material or manufacturing defects.

15-YEAR LIMITED WARRANTY

On all plastic components (including TuffTimber edging or approved equal), all steel components (except 100-year steel posts), Mobius climbers, decks and TenderTuff or approved equal coatings (except Wiggle Ladders, Chain Ladders and Swing Chain) against structural failure due to material or manufacturing defects. TuffTurf tiles or approved equal against material or manufacturing defects.

10-YEAR LIMITED WARRANTY

On concrete products against structural failure due to natural deterioration or manufacturing defects. Does not cover minor chips, hairline cracks or efflorescence.

8-YEAR LIMITED WARRANTY

On climbers and climbing cables against defects in materials or manufacturing defects. On CoolToppers fabric or approved equal against failure from significant fading, deterioration, breakdown, mildew, outdoor heat, cold or discoloration. This warranty is limited to the design loads as stated in the specifications found in the technical information.

3-YEAR LIMITED WARRANTY

On all other parts, (as example: CableCore products, swing seats and hangers, grills, Mobius climber handholds, Wiggle Ladders, Chain Ladders and Swing Chain, Track Ride trolleys and bumpers, all rocking equipment including Sway Fun gliders, PVC belting material, HealthBeat hydraulic cylinders, Seesaws, Wiggle Ring Bridge, etc.), against failure due to corrosion/natural deterioration or manufacturing defects.

This warranty does not include any cosmetic issues or wear and tear from normal use. It is valid only if the play structures and/or equipment are erected to conform with manufacture installation instructions and maintained according to the maintenance procedures furnished by manufacturer.

219-2.6 Product Compliance Verification.

At time of ordering the equipment, the Contractor shall verify with the manufacturer that play equipment meets current safety and access guidelines and requirements. The playground components and design were designed to comply with the ADAAG Final Rule for Play Areas <https://www.access-board.gov/guidelines-and-standards/buildings-and-sites/about-the-ada-standards/ada-standards/chapter-10-recreation-facilities>. The contractor shall verify current compliance prior to ordering the equipment.

219-3 RESILIENT RUBBER SURFACING.

Play ground resilient rubber surfacing shall be Robertson Industries Inc, 'Tot Turf Supreme' Poured-in-Place Playground Surfacing, or approved equal.

DESCRIPTION

Poured in place rubber playground surfacing shall consist of a polyurethane binder mixed with 100% recycled, shredded tire buffings which will make up the Cushion Layer. The Cushion Layer is capped with Thermal Plastic Vulcanized (TPV) rubber granules mixed with a polyurethane binder creating the Wear Course. The surfacing shall comply with ADA and CPSC guidelines as well as ASTM Standards. Surfacing shall be certified by IPEMA, a third party testing organization for playground surfaces and equipment. Rubber playground surfacing shall have a percolation rate of 1,469.8 inches per hour.

219-3.1 Applicable Standards.

ASTM International:

- 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.
- ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers- Tension.
- ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
- ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials.
- ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester.
- ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
- ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.

TPV material shall be angular granules with a (Shore A) hardness of 65°A ±5 and particle size between .5-1.5mm. 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.

219-3.2 Certified installers.

Poured in place surfaces shall be manufactured and installed by trained, company employees or certified installers who have successfully completed the “Certified Installers Training Program” from manufacture.

219-3.3**Submittals.**

The following submittals shall be provided by the Contractor to the City for review and approval:

- a) One original hard copy of the submittal package. Additional hard copies available by request.
- b) Manufacturer's descriptive data and installation instructions.
- c) Manufacturer's details showing depths of Wear Course and sub-base materials, anchoring systems and edge details.
- d) A signed statement by an authorized official certifying that the surfacing system meets the requirements of ASTM-F1292-09 for a head-first fall from the highest accessible portion of the specified playground equipment.
- e) A signed statement from the manufacturer of the poured in place surfacing attesting that all materials under this section shall be installed only by the Manufacturer's Trained Installers.
- f) Upon request, 2 inch X 3 inch (60mm x 80 mm) samples of the proposed material for this project.
- g) IPEMA certification.
- h) Third party test results of tensile strength equal to or greater than 170psi and elongation yield equal to or greater than 180%.

219-3.6**Materials.****CUSHION LAYER SECTION.**

- a) Impact Attenuating Cushion Layer: Cushion Layer consists of shredded styrene butadiene rubber (SBR) 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 10% SBR Ambient Crumb Rubber (5-9 Mesh) using sieve analysis ASTM D 5644 and a fiber content of .1% or less mixed in.
- c) Foam or standard rubber granules are not to be permitted in 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.

WEAR COURSE.

- a) The following are TotTurf Custom Colors available: Cancun, Arizona Gold, Sherwood Forest, Blue Moon and California Dream'n. (See www.Totturf.com) or approved equal.
- b) Wear Course shall consists of TPV granules with an Aliphatic binder formulated to produce an even, uniform, seamless surface up to 2000 square feet.
- c) TPV shall be angular granules with a (Shore A) hardness of 65°A ±5 and particle size between 0.5mm to 1.5mm. Binder shall be not less than 15 percent of total weight of TVP material used in the wear surface, and shall provide 100 percent coating of the particles. No other granule sizes are acceptable.
- d) Thickness of Wear Course shall be a minimum ½ to 5/8-inch (minimum 1/2-inch, 12.7 mm).
- e) The Wear Course shall be porous.

BINDER.

- a) No Toluene Diphenel Isocyanate (TDI) 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 original Aliphatic quality.

COLOR.

Selected from Manufacturer's Color Chart and shown on the plans.

219-4 PREFABRICATED RESTROOM BUILDING

219-4.1 General.

The prefabricated restroom shall conform to the following specifications:

Project Reference#: 9933-1/11/2017-2

Building Type: Restroom
Manufacturer: Public Restroom Company, or approved equal
 (888) 888-2060
 www.publicrestroomcompany.com
 2587 Business Parkway
 Minden, NV 89423

Paint Schedule:

<u>Component</u>	<u>Exterior PPG (Pittsburgh Paint) Color</u>
Rake & Fascia	Victorian Pewter PPG 1013-5
Soffits	Cavern Moss PPG 1124-5
Exposed Top Plate	Cavern Moss PPG 1124-5
Steel Truss	Victorian Pewter PPG 1013-5
Steel Post/ Column	Victorian Pewter PPG 1013-5
Exterior CMU Courses	Hush PPG 1004-3
H.M. Door & Frames	Cavern Moss PPG 1124-5
Interior Walls & Ceiling	PRC Standard White – PPG

Roof Schedule: PVDF Kynar 500 - Classic Green (66) or approved equal
ASTM C 1549 - Solar Reflectance – 0.32
ASTM C 1371 – Thermal Emittance – 0.86
ASTM E 1980 – Solar Reflectance Index – 33
Slope > 2:12, Energy Star, CRRC, LEED

Installation: **Per SSP Section 319-4 “PREFABRICATED RESTROOM BUILDING INSTALLATION”.**

The prefabricated restroom shall have non-absorbent interior concrete slab (not a part of building pad/ foundation); anti-microbial components to reduce health risks; incorporate built in vandal resistance design and have lowered maintenance and long term warranties.

219-4.2 “Or Equal” Submittals for Prefabricated Restroom Subcontractors.

Submittals for “or equal” approval shall be submitted in accordance with **Section 4-1.6 “Trade Names or Equals”** and as follows:

- a) Scaled floor plans and elevations, to show general architectural design criteria is met.
- b) A written list of each and every deviation from the published bid specifications/plans. Lack of specificity to each deviation from the bid specifications shall be cause for rejection.
- c) Manufacturer’s certification of test compliance from a national independent testing laboratory (within the past year) to support the claim for absorption resistance of the slab type that will be used in their proposed restroom. The written report shall state the concrete compressive strength (minimum of 7,000 PSI) and absorption resistance (not greater than 3%) per ASTM standard #C39 and #C642, respectively.
- d) Or equal applicant shall provide certification of the special insurances required in this bid.

Or Equal applicant shall be responsible for and to bear all cost for architecture, plan checks, design and structural engineering and all fees in obtaining approvals and permits from applicable agencies.

219-4.3 Scope of Work.

CONTRACTOR

The Contractor for this project is responsible for the construction and compaction of the required building pads; access to the site for a large crane and tractor trailers delivering the prefabricated building; providing water, sewer, and power at a point of connection (POC) within 6 feet of the building and at the depth required by the building subcontractor and local code; and the installation of any sidewalks outside the building footprint.

The Contractor is responsible for verification to the prefabricated restroom subcontractor that there are no unanticipated site delivery issues such as overhead wires, trees, tree roots, or existing grade changes and that prevent a clear path of travel between a roadway and the final site exists for a tractor trailer and crane to expedite delivery. The subcontractor requires that the Contractor certify that the required delivery crane shall be able to set the building modules within 35' distance from the center of the building to the center of the crane hoist.

PREFABRICATED RESTROOM SUBCONTRACTOR

The prefabricated restroom building specialist will provide to the Contractor final building design architectural drawings and engineering calculations under the responsibility of a licensed structural engineer, in compliance with all local, state and federal codes. The subcontractor shall construct the building offsite as a permanently relocatable building, transport it to the final required destination, and install the building turnkey, on a Contractor prepared building pad/ foundation per the drawings included in this bid.

219-4.4 Shipping Protection.

During transport to the project site the prefabricated restroom may encounter inclement weather or road grime that could require substantial cleaning if the building is insufficiently prepared for transport. The building shall be shrink-wrapped, boxed, or other adequate protection as determined by the Contractor before transportation and sufficiently strong to arrive at the owner's site intact with exterior finish protection. Materials removed on site shall be disposed of and recycled by restroom building installation staff.

219-4.6 Licensing Responsibility.

The subcontractor shall comply with all the State of California; Department of Housing and Community Development, prefabricated "Commercial Modular Requirements" as follows:

1. The building manufacturer shall be licensed by the State of California, Department of Housing and Community Development as a manufacturer.

2. The selling dealer (if applicable) shall be a California licensed dealer and present their license for verification with the bid.
3. The licensed dealer shall possess required State of California Contractors License and present their license for verification with the bid.

219-4.7 Warranty and Certification.

a) FOUNDATION AND GENERAL WARRANTY

The prefabricated structure in this bid is an offsite constructed "product" and not "typical" general construction.

The installation of the product on site is general construction, which must be coordinated between the general contractor and the subcontractor. Specifications for the building foundation/pad shall be provided herein by the specified design/build subcontractor. Due to the responsibility of the specified prefabricated restroom subcontractor for architecture, engineering and a five-year warranty, the site pad/foundation shall meet the subcontractor's design so the pad and building can be considered from a single source for warranty purposes. The subcontractor shall accept the pad and compactions tests before they take responsibility for the entire system under their warranty.

b) CONCRETE SLAB, REQUIRED INDEPENDENT TESTING LABORATORY CERTIFICATION.

The prefabricated buildings slab is claimed to be water and urine resistant for life due to special additive technology. The prefabricated restroom subcontractor shall furnish a test certification of compliance from a national independent testing laboratory to support the claim for absorption resistance. The written report shall state the concrete compressive strength (minimum of 7,000 PSI) and absorption resistance (not greater than 3%) per ASTM C642 and C39 respectively.

c) CERTIFICATE OF OFF-SITE INSPECTION AND CONSTRUCTION COMPLIANCE, PROVISION FOR MAINTENANCE MANUALS, AND WARRANTY.

The off-site restroom construction requires that a licensed third party inspection firm provide to the City and the local building official with certification and compliance for the building with the approved plans and specifications. A certificate of compliance shall be issued by this inspector to the local building official to provide certification that the building meet and or exceed the approved plans and applicable codes.

At the project conclusion, the building subcontractor shall furnish two sets of complete maintenance manuals including a trouble shooting guide, location of manufacturers of key components for replacement parts together with final as-built plans, and a five (5) year warranty to the owner.

219-5 PREFABRICATED SHADE STRUCTURE (BBQ AREA)

The Prefabricated Shade Structure shall conform to the following specifications:

Project Job#:	13893
CAD Model #:	E1-13893-RR3
Building Type:	REK 24'x34'
Roof Type:	Multi-Rib
Manufacturer:	Poligon, a Product of Porter Corporation, or approved equal. 4240 N 136th Ave. Holland, MI, 49424 www.poligon.com
Production:	The product shall be designed, produced, and finished at a facility operated and directly supervised by the supplier.
Material, color & finishes:	Per 219-5.7 Materials
Installation:	Per 319-5

219-5.1 Description of Product.

- A. REK 24'x34' (Rectangular Gable) with Multi-Rib Metal Roof "R" Panel.
- B. ROOF SLOPE: 4/12.
- C. Minimum Clearance Height (MCH): 10.0 in ft. Minimum clearance height under the structure indicates the lowest height of a member from finish grade for clearance under the structure. This is generally the clearance under roof eave or frame, whichever is lower.

219-5.2 Reference Standards.

- A. AISC - American Institute of Steel Construction Manual of Steel Construction.
- B. ASTM - American Society for Testing and Materials.
- C. AWS - American Welding Society.
- D. LEED - Leadership in Energy and Environmental Design.
- E. OSHA - Occupational Safety and Health Administration Steel Erection Standard 29 CFR 1926 Subpart R-Steel Erection.
- F. PCI - Powder Coating Institute.
- G. SSPC - The Society for Protective Coatings.

219-5.3 Submittals.

- A. Submit 4 sets of submittal drawings and 2 sets of calc books, both signed and sealed by a Professional Engineer licensed in the State of CA.

B. PRODUCT DESIGN REQUIREMENTS.

The building shall meet the following design requirements as shown on the drawings:

- a. Building Code: CBC 2016.
- b. Ground Snow Load (Pg): 0.
- c. Basic Wind Speed (V): 115.
- d. Seismic Design: See drawings.

C. SUBMITTAL REQUIREMENTS.

Calculations and Submittal drawings shall include, at a minimum:

- 1. Calculations.
 - a. References to building codes and design manuals used for calculations.
 - b. Identification of lateral force resisting system.
 - c. Formulas used for determining snow, wind, and seismic loads to specific project location.
 - d. Three dimensional modeling input, model geometry, and analysis results.
 - e. Member design results and controlling load combinations.
 - f. Connection design for structural bolts, welds, plate thicknesses, and anchorage to the foundation.
 - g. Foundation designs shall include the required combinations of gravity and lateral loads.
- 2. Submittal Drawings.
 - a. Anchor bolt layout.
 - b. Foundation design.
 - c. Three dimensional views of frame.
 - d. Member sizes and locations.
 - e. Structural connection details, including bolt sizes and plate thicknesses.
 - f. Roof trim and connection details for installation clarity.

D. FOUNDATION DESIGN.

The shelter shall be set on prepared foundations designed by an engineer retained by owner using the column reactions provided by manufacturer.

E. ANCHOR BOLTS.

Anchor bolts shall be provided by manufacturer.

F. LEED SUBMITTALS.

LEED MR Credit 4.0: Material and Resources, Recycled Content.

219-5.4 Quality Assurance.

A. MANUFACTURER QUALIFICATIONS.

1. Full time on-staff Licensed Engineer.
2. Full time on-staff AWS Certified Associate Welding Inspector.
3. Full time on-staff Quality Assurance Manager.
4. Full time on-staff LEED AP.
5. All welders AWS Certified.
6. Manufacturer owned and controlled finishing system to include shot blast, pretreatment, primer, and top coat.
7. Published Quality Management System.
8. Annual audit of Quality System and Plant Processes by Third Party Agency.
9. Annual audit of powder coat finish system by Third Party Agency (PCI).

B. MANUFACTURER'S CERTIFICATONS.

1. PCI 4000 S Certified, Certification thru Powder Coating Institute for original equipment manufacturers (OEMs) to evaluate process on entire finish system to add powder coat over steel.

219-5.5 Field or Site Conditions.

- A. Foundations shall be at the same elevation unless specifically noted otherwise on the drawings.

219-5.6 Manufacturer Warranty.

- A. Shelter must have a (10) year limited warranty on steel frame members.
- B. Shelter must have a (10) year limited warranty on paint system.
- C. Pass through warranty of Metal Roof manufacturer shall be provided upon request.

219-5.7 Materials.

GENERAL.

The pre-engineered package shall be pre-cut unless otherwise noted and prefabricated which will include all parts necessary to field construct the shelter. The shelter shall be shipped knocked down to minimize shipping expenses. Field labor will be kept to a minimum by pre-manufactured parts.

A. REINFORCED CONCRETE.

1. Concrete shall have minimum 28-day compressive strength of 3,000 psi and slump of 4" (+/- 1"), unless otherwise noted on the drawings.
2. Reinforcing shall be ASTM A615, grade 60.

B. STEEL COLUMNS.

1. Hollow structural steel tube minimum ASTM A500 grade B with a minimum wall thickness of 3/16".
2. Unless columns are direct buried, columns shall be anchored directly to concrete foundation with a minimum of four anchor rods to meet OSHA requirement 1926.755(a)(1).
3. CUSTOM STEEL COLUMNS.

Custom columns will replace the standard columns. Columns will be Poligon column model or approved equal:

K8808 8" Wooster (Square upper section and a 2" bigger square base).

C. STRUCTURAL FRAMING.

Hollow Structural Steel tube minimum ASTM A500 grade B, "I" beams, tapered columns or open channels shall not be accepted for primary beams. Frame will have a STANDARD POLI-5000 finish. Color chosen from manufacturer's standard color chart: Fox Hollow Gray.

D. COMPRESSION MEMBERS.

Compression Rings of structural channel or welded plate minimum ASTM A36 or compression tubes of structural steel tube minimum ASTM A500 grade B shall only be used.

E. CONNECTION REQUIREMENTS.

1. Anchor bolts shall be ASTM F1554 (Grade 36) unless otherwise noted.
2. Structural fasteners shall be zinc plated ASTM A325 high strength bolts and A563 high strength nuts.
3. Structural fasteners shall be hidden within framing members wherever possible.
4. No field welding shall be required to construct the shelter.
5. All welds shall be free of burrs and inconsistencies.
6. Exposed fasteners shall be powder coated by manufacturer prior to shipment to match frame or roof colors as applicable.
7. Manufacturer shall provide extra structural and roofing fasteners.

F. ROOFING MATERIALS.

PRIMARY ROOF DECK OF "R" PANEL METAL ROOFING (MR).

1. Roofing shall be 24 gauge ribbed galvalume steel sheets, with ribs 1 3/16" high and 12" on center.
2. Roof surface shall be painted with Kynar 500 to the manufacturer's standard color or approved equal:
Evergreen. Ceiling surface shall be a "wash coat" primer.
3. Roof panels shall be factory precut to size and angled to provide ease of one-step installation.
4. Metal roofing trim shall match the color of the roof and shall be factory made of 26 gauge Kynar 500 painted steel.
5. Trim shall include panel ridge caps, hip caps, eave trim, splice channels, rake trim, roof peak cap, and corner trim as applicable for model selected. Trim may need to be cut to length and notched. Installation drawings shall have detailed information on how to cut and affix roof trim.
6. Ridge, hip, and valley caps shall be pre-formed with a single central bend to match the roof pitch and shall be hemmed on the sides.
7. Roof peak cap shall be pre-manufactured.
8. Manufacturer shall supply painted screws and butyl tape.

G. FINISHES.

STANDARD POLI-5000 FINISH or approved equal.

1. Steel shall be cleaned, pretreated and finished at a facility owned and directly supervised by the manufacturer.
2. Steel shall be shot blasted to SSPC-SP10 near-white blast cleaning. SSPC-SP2 hand tool cleaning will not be an acceptable alternative.
3. Parts shall be pretreated in a 3 stage iron phosphate or equal washer.
4. Epoxy primer powder coat shall be applied to parts for superior corrosion protection.
5. Top coat of Super Durable TGIC powder coat shall be applied over the epoxy primer.
6. Finish shall not have any VOC emissions.
7. Sample production parts shall have been tested and meet the following criteria:

- a) Salt spray resistance per ASTM B 117/ ASTM D 1654 to 10,000 hours with no creep from scribe line and rating of 10.
 - b) Humidity resistance per ASTM D2247-02 to 5,000 hours with no loss of adhesion or blistering.
 - c) Color/UV resistance per ASTM G154-04 to 2,000 hours exposure, alternate cycles with results of no chalking, 75% color retention, color variation maximum 3.0 E variation CIE formula (before and after 2,000 hours exposure).
- 8. The manufacturer shall be PCI 4000 S Certified.
 - 9. Exposed fasteners for frame and ornamentation shall be powder coated to match structure.

H. ACCESSORIES.

ORNAMENTATION.

- 1. GABLE.
 - a) Shelter is to be equipped with ornamentation on open gable shelters and is to match Poligon O53 Truss ornamentation.
 - b) Ornamentation will have a STANDARD POLI-5000 finish. Color chosen from manufacturer's standard color chart: Evergreen.

219-6 **PREFABRICATED SHADE SHELTER (PLAY AREA)**

A single shade structure company shall be the originators of and responsible for the design, engineering, fabrication, and supply, of the work specified herein.

The prefabricated shade shelter located between the 2-5 and 5-12 play areas shall conform to the following specifications:

Product: TSP Sunbow, or approved equal.

Manufacturer: Tensile Shade Products, LLC
 525 East Roger Road
 Tucson, AZ 85705
 (520) 903-0414
 www.tensileshadeproducts.com

Overall Dimensions

Central Bow: 35'-10" long, installed 17'-4" above finish surface

Bow Arms: 24'-0" long, installed 11'-0" above finish surface

* The Central Bow and Bow Arm dimensions listed above are 2'-0" higher than the Standard Sunbow Dimensions to accommodate the parks safety light photo-metrics.

Powder Coat Color: Satin, 38/80020, gloss level 30 +/- 5

Canopy Color: Midnight Green

Mean UPF: 20

Shade Factor %: 92

UVR%: 94

Installation: Per **Section 319-6 "Prefabricated Shade Shelter Installation"**

219-6.1 Submittals.

1. Provide a minimum of 18 fabric samples to demonstrate fabric color range.
2. Provide reference projects of the 36' x 23' six-point 2 column canopy structure, installed over the past year.
3. Proof of general liability, and umbrella insurance.

219-6.3 Warranty.

1. A supplemental UV warranty from the fabric manufacturer shall be provided for a period of 10 years on fabric.

219-6.4 Materials.

1. FABRIC

The fabric structures shall be manufactured by TENSILE SHADE PRODUCTS, LLC and include:

1. Drawings and engineer's calculations.
2. Engineering, and fabrication of architectural HDPE membrane.
3. Design, engineering, and fabrication of structural steel frame.
4. Supply of all engineer-specified fasteners and tensioning devices.

2. STRUCTURAL ENGINEERING

All standard shade structures will be engineered for Wind Exposure C, at 90 mph (3 second gust) by ASCE 7-05, or at 115 mph (ultimate 3 second gust) by ASCE 7-10.

All ES (Extra-Strong) products are engineered for Wind Exposure C, at 130 mph (3 second gust) by ASCE 7-05, or at 165 mph (ultimate 3 second gust) by ASCE 7-10.

3. STEEL

All steel members of the shade structure shall be designed in strict accordance with the requirements of the "American Institute of Steel Construction" (AISC) Specifications.

All non-hollow structural steel members and steel plate shall comply to ASTM A-36 Grade 36. All round tubing shall conform to ASTM A53, Grade B or ASTM A501 (Hot Formed) or ASTM 500 (Cold Formed), Grade B. No structural cables permitted. All structural steel members shall be manufactured in an AISC certified manufacturing facility.

4. WELDING

All welded connections of the shade structure shall be designed and performed in strict accordance with the requirements of the "American Welding Society" (AWS) Specifications by certified welders at an AISC certified shop. No on-site welding permitted.

5. BOLTSSCREWS

All above-grade structural field connections of the shade structure shall be made with tamper- resistant steel fasteners comparable to Grade 5 alloy and finished to match the structure.

6. CANOPY CONNECTION HARDWARE

Canopy to be tensioned with DRAWSCREW™, 316 stainless steel, AMPCO® 18 and with 304 stainless steel sprung cover.

NO cabling or cabling hardware permitted.

7. POWDER COATING

Powder coated steel shall use Tiger Drylac® Series 38 - Super Durable with Series 69 - Dryzinc® zinc-rich primer (69/90500) per manufacturer's specifications.

8. CANOPY

Fabric to be Polyfab™ Polytex® knitted high density polyethylene shade fabric, available in 18 colors, 12.5 feet wide, knitted (not woven) so that it will not unravel if cut.

1. Fabric manufacturer's 10 Year UV warranty.
2. 100% Lead free
3. 100% recyclable
4. Fabric shall meet the following fire resistance standards: NFPA 701-2010
ASTM E - 84 (Class 1 or A rating)
5. Minimum Shade and UV factors shall be as follows:
 - Mean UPF range 15-55.
 - UVR range 91-97%.
 - Shade factor range 72%-96%.

9. CANOPY TECHNICAL DATA

Item	Test Method	WARP	WEFT
Breaking Force	ASTM D-5034	120 lbs	296 lbs
Elongation at Break	ASTM D-5034	75 %	61 %
Tearing Strength	ASTM D-2261	17 lbs	25 lbs
Mullen Burst	ASTM D-3786	444 lbs/in	Face
Ball Burst	ASTM D-3787	293 lbs	Face

10 THREAD

Canopies shall be sewn with GORE Tenara Sewing Thread manufactured from 100% expanded PTFE (Teflon); a mildew resistant exterior approved thread.

Thread shall meet or exceed the following:

1. Remains flexible in freezing to extreme heat (120°) temperatures.
2. Very low shrinkage factor; <3% shrinkage at 232°C, 2 hour, unrestrained. Modified DIN EN 14621, 1m sample of filament. Place unrestrained filament in oven at 232°C for 2 hours.
3. Extremely high strength, durable in outdoor climates; DIN EN ISO 2062, UV accelerated test with acid rain (0-80°C) Southern USA and Southern European climate.
4. Resists flex and abrasion of fabric; 0.05-0.1 coefficient of friction dynamic – “The Engineering Toolbox: Friction and Coefficients of Friction” retrieved 2008-11-23.
5. Unaffected by cleaning agents; acid rain, mildew, salt water and rot resistant, unaffected by most industrial pollutants; ASTM METHOD D570 <0.01, essentially 100% hydrophobic.
6. Treated for prolonged exposure to the sun; DIN EN ISO 105-B06A:2004-07 rating of 8.0.

11 CANOPY WEBBING

Webbing shall be Offray Specialty Narrow Fabrics® Sunbrella solution dyed, exterior approved, acrylic webbing with a tensile strength of 1500 lbs. min. No cabling permitted.

SECTION 300 - EARTHWORK

300-1.1 General. To the “WHITEBOOK”, ADD the following:

Clearing and grubbing shall include the removal, relocation, adjusting, or salvaging of all facilities so indicated on the plans.

In addition, clearing and grubbing shall include, but not limited to the following items as shown on the plans and specified herein:

- 10) Deleterious materials resulting from clearing and grubbing operations shall be hauled away and disposed of legally at a site obtained by the Contractor.
- 11) Removal and disposal of pipe, steel posts, rubble, miscellaneous concrete and any additional items not specifically mentioned which may be found within the work limits and beneath the ground surface as a result of grading or trenching operations connected with the construction of project improvements.
- 12) Furnishing and applying water.

- 13) Adjustment to grade of miscellaneous items such as utility boxes, valves, manholes, pullboxes, posts.
- 14) The Contractor shall remove and transport debris and rubbish in a manner that will prevent spillage on streets or adjacent areas. Clean-up of spillage will be at the Contractor's expense.
- 15) Clearing and grubbing shall also include mobilization. Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, materials and incidentals to the project site necessary for work on the project and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site.

300-1.2 Preservation of Property. To the "GREENBOOK", ADD the following:

Items which are to remain or are to be salvaged and which are damaged during performance of work shall be repaired to their original condition or replaced with new by the Contractor at no additional cost to Owner. The Contractor shall protect all services and utilities which are to remain. Where removal of existing utilities and pavement is specified or indicated, provide approved barricades, temporary covering of exposed areas, and temporary services or connections for electrical utilities.

300-1.3.2 Requirements. To the "WHITEBOOK", DELETE item (1) in its entirety and SUBSTITUTE with the following:

- (1) **Bituminous Pavement.** Bituminous pavement shall be cut and removed in such a manner so as not to tear, bulge or displace adjacent paving by use of sawcutting, rockwheel, jackhammer or milling machine. Wheel type pressure cutters and drop hammer cutters shall not be permitted for final edge cut. Sawcutting of edges to be joined is required. Where only the surface of existing bituminous pavement is to be removed, the method of removal shall be approved by the Engineer, and a minimum laying depth of 25 mm (1 inch) of new pavement material shall be provided at the join line. Where bituminous pavement adjoins a trench, the edges adjacent to the trench shall be trimmed to neat straight lines before resurfacing to ensure that all areas to be resurfaced are accessible to the rollers used to compact the subgrade or paving materials.

ADD the following:

- (6) **Miscellaneous Materials.** Buried pavements and other materials, old subsurface pavements and other materials such as concrete planters, and other materials encountered under existing pavements, which are within designated excavation areas on the demolition plans shall be removed.

- (7) **Dust Control.** The Contractor shall take appropriate action to check the spread of dust to avoid the creation of a nuisance in the surrounding area. Do not use water if it results in hazardous or objectionable conditions, such as flooding, or pollution. Comply with all dust regulations imposed by local air pollution agencies.

ADD:

300-1.3.3

Execution.

- (1) **Paving:** Remove asphaltic concrete paving to depths as indicated on the plans or as required to allow for new improvements.
- (2) **Concrete:** Where concrete work is to be removed, saw cut concrete along straight lines to a depth of four inches minimum. At walls and other vertical surfaces, saw cuts shall be perpendicular to the vertical face and in alignment with the cut in the horizontal face. The remainder of the concrete shall be broken out, provided that the broken area is concealed in the finished work, and the remaining concrete is sound. At locations where the broken face cannot be concealed, it shall be ground smooth or the sawcut shall be made entirely through the concrete.
- (3) **Filling:** Fill holes in accordance with **Section 300 "Earthwork"**.
- (4) **Title to Materials:** Title to all materials resulting from demolition, and all materials and equipment to be removed, is vested in the Contractor upon approval by the City of the Contractor's demolition and removal procedures, and authorization by the City to begin demolition. The City will not be responsible for the condition or loss of, or damage to, such property after notice to proceed. Materials and equipment shall not be viewed by prospective purchasers or sold on or near the site.
- (5) **Salvaged Materials and Equipment:** Contractor to carefully remove materials and equipment with minimal damage that are designated to be salvaged on the plans. See **Section 7-21 "Construction And Demolition Waste Management"**.
- (6) **Debris and Rubbish:** Remove and transport debris and rubbish in a manner that will prevent spillage on streets or adjacent areas. Clean up spillage from streets and adjacent roads.
- (7) **Hazardous Materials:** refer to **Section 7-22 "Encountering or Releasing Hazardous Substances"** of the Whitebook for procedures when hazardous materials are encountered during excavation.

300-2.9 Payment. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

Unclassified Excavation shall be included in the lump sum Bid Item for "Construction of Park Improvements". This will include full compensation for furnishing all labor, materials, tools, equipment, and incidents, and for doing all the work involved in the excavation and embankments to achieve the subgrades and final grades as shown on the plans and as specified and as directed by the City.

The contractor shall be required to prepare their own earthwork quantities for bidding and construction purposes. Any reference to earthwork quantities on the plans is strictly for bonding purposes and shall not be used by the contractor for a price basis. No additional compensation for excavation, embankment, import, or export of material shall be allowed.

300-4.1 General. To the "GREENBOOK", ADD the following:

The suitability of unclassified excavation as fill material shall be in accordance with the Geotechnical Report and prescribed recommendations found therein. Unclassified fill material shall be free of deleterious material.

SECTION 301 – SUBGRADE PREPARATION, TREATED MATERIALS, AND PLACEMENT OF BASE MATERIALS

301-2.1 General. To the "GREENBOOK", ADD the following:

Class II Aggregate Base shall be installed per **Section 301-2 "Untreated Base"**.

301-2.4 Measurement and Payment. To the "GREENBOOK" ADD the following:

Payment for Class II Aggregate Base shall be included in the lump sum Bid Item for "Construction of Park Improvements" and shall include full compensation for furnishing all labor, materials, equipment and incidentals necessary to perform the work as specified in the Standard Specifications, these Special Provisions and as directed by the City Engineer.

ADD:

301-9 STABILIZED DECOMPOSED GRANITE INSTALLATION.

Install stabilized decomposed granite surfacing as follows:

- a) Excavate material and compact sub-grade to the relative compaction rate indicated on the details and/or notes.
- b) Apply two applications of pre-emergent herbicide (See **Section 800-1.2.7 "Herbicides and Pesticides"**). Apply once before and once following placement of the decomposed granite.

- c) Pre-blend stabilized decomposed granite with Binding Agent per manufacturer's recommendations at the manufacturing facility. Blending may be done with a cement mixer, pug mill, or any similar piece of equipment to thoroughly and completely blend the stabilizer with the decomposed granite material. It is essential that the stabilizer be mixed thoroughly and uniformly through the decomposed granite. Proper mixing is required for successful application.
- d) Apply mixture for a depth equivalent to (one) two inch lift.
- e) Grade and smooth stabilized decomposed granite for an even layer.
- f) Apply water until moisture penetrates to full depth of the stabilized decomposed granite. Water activates stabilizer, so it is essential that the full depth of the material receives water at this time. To allow water to penetrate the stabilized decomposed granite.
- g) Upon thorough moisture penetration, compact each lift of the stabilized decomposed granite. Compaction shall be done with a vibrating roller. Finish grade shall be level with adjacent concrete grades. Apply additional layers per process above, until full depth of stabilized decomposed granite paving is achieved.
- h) Allow finished surface enough time to dry completely before use. Set up time varies, depending upon weather conditions. A hot, dry climate will set up sooner than a cooler, moist climate.
- i) Make one additional pre-emergent application one week prior to substantial completion.

301-9.1 Measurement & Payment. The payment for the Stabilized Decomposed Granite shall be included in the lump sum Bid Item for "Construction of Park Improvements". Payment shall include: complete and in place installation, be full compensation for furnishing all material, delivery, placement, fees, labor, equipment, water, Class II base materials (if indicated on the detail), tools and incidentals required to complete the work specified. No additional compensation will be made therefore.

SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION

303-1.1 General. To the "GREENBOOK", ADD the following:

This work shall consist of preparing the area on which the concrete work is to be placed, which may include preparation of sub-grade, removal of tree roots, and placement of base materials in accordance with these Specifications and as shown on the plans. The following types of miscellaneous concrete items are included:

- a) CIP Concrete Wall with Veneer and Cap.

303-1.11 Payment. To the "GREENBOOK", DELETE and REPLACE with the following:

Payment for concrete structures shall be included in the lump sum Bid Item for "Construction of Park Improvements" and shall include the complete structural section, reinforcing, subgrade preparation, compaction, form work , and all specified finishes, admixtures, sealants, etc. and no other payment allowed therefore.

303-4.1.5 Payment. To the "GREENBOOK", DELETE and REPLACE with the following:

Payment for masonry construction shall be included in the lump sum Bid Item for "Construction of Park Improvements" and shall include the complete structural footing section, reinforcing, subgrade preparation, compaction, formwork , and all specified finishes, admixtures, sealants, etc. and no other payment allowed therefore.

303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, ACCESS RAMPS, AND DRIVEWAYS.

303-5.1.1 General. To the "WHITEBOOK", ADD the following:

This work shall consist of preparing the area on which the concrete work is to be placed, which may include preparation of sub-grade, removal of tree roots, and placement of base materials in accordance with these Specifications and as shown on the plans. The following types of miscellaneous concrete items are included:

- a) Standard Concrete Paving installed per **Section 303-5.5.3 "Walk"**.
- b) ADA Accessible Ramps installed per **Section 303-5.5.5 "Alley Intersections, Access Ramps, and Driveways"**.

303-5.5.3 Walk. To the "GREENBOOK", First paragraph, DELETE in its entirety and SUBSTITUTE with the following:

The forms shall be set to place the finish surface in a plane sloping from one edge of paving to the other edge at a maximum of 1.5 percent perpendicular to the edge of paving, unless otherwise shown on the plans.

303-5.9 Measurement and Payment. To the "WHITEBOOK", ADD the following:

Payment for sidewalk, concrete paving, curb & gutters, and miscellaneous concrete items **per Section 303-5.1.1 "General"** shall be included in the lump sum Bid Item for "Construction of Park Improvements" and shall include the complete structural section, reinforcing, subgrade preparation, compaction, formwork , and all specified finishes, admixtures, sealants, etc. and no other payment allowed therefore.

303-7.1 **General.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

Colored Concrete should be produced by Method B. Provide a minimum 4'-0" wide x 16" long colored concrete band sample on-site, of each of the colors and finishes to be used in the installation on identical surfaces for approval by the City a minimum of one week prior to construction of colored concrete work. The sample shall be inspected and approved by the Engineer before proceeding with the Work. The approved samples shall remain on-site and shall serve as a basis of comparison for all colored concrete work.

303-8.1 **General.** To the "WHITEBOOK", ADD the following:

4. This work shall include but not be limited to preparing the area on which the pervious concrete work is to be placed, which may include preparation of sub-grade, removal of tree roots, and placement of base, stone subbase and reinforcing materials in accordance with these Specifications and as shown on the plans. The following types of miscellaneous pervious concrete items are included:

- a) Pervious Concrete Sub-slab with epoxy coated rebar and stone sub-base(s).

303-8.10 **Payment.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

Payment for Pervious Concrete shall be included in the lump sum Bid Item for "Construction of Park Improvements" for the project and shall include full compensation for furnishing all items of work necessary to construct pervious concrete including but not limited to subgrade preparation, base and stone subbase material, geotextile fabrics, epoxy coated reinforcing, forming, finishing, etc. No additional compensation for this work will be allowed.

ADD:

303-10 **CAST-IN-PLACE CONCRETE WALLS**

303-10.1 **Mock-ups.**

Contractor shall provide mock-ups for each concrete wall type shown on the plans, providing a representative sample of the wall jointing and wall finish, complete and in place with veneers, caps, or other features, including anti-graffiti coatings per specs. Wall mock-ups shall be reviewed and approved by City prior to construction of the final wall improvements.

SECTION 310 - PAINTING.

ADD:

310-6

ANTI-GRAFFITI COATING INSTALLATION.

310-6.1

Items to Receive Anti-Graffiti Coating. Anti-graffiti coating shall be applied to ALL masonry, cast in place concrete constructed walls and site furnishings including their components such as grout joints, mortar joints, wall caps, veneers, stone veneers, exposed portions of walls, boulders, etc.

Anti-graffiti coating, per this section, shall also be applied to precast concrete site furnishings, including but not limited to walls, entry monuments, benches, tables, bollards, litter receptacles, masonry walls, seat walls, sound walls, neighborhood walls, retaining walls, light poles, veneer walls, hot coals receptacles, barbecues, etc. by either the Manufacturer or Contractor prior to installation and delivery to the site. If Contractor opts for a Manufacturer applied anti-graffiti coating, the Contractor shall be responsible for conformance to **Section 210.1.1.1 "Anti-graffiti Coating"** and supplementary special provisions.

Additional components to precast concrete component such as grout joints, mortar joints, wall caps, veneers, stone veneers, etc. shall also have anti-graffiti coating applied by the Contractor.

Contractor shall apply anti-graffiti coating to concrete improvement mock-ups to show a representative example of the complete and finished installation.

310-6.2

Application. Application shall be applied by spray method unless otherwise approved or directed by the City. Anti-graffiti application shall conform to **Section 310-1 "General"** for Weather Conditions, Application, Thinning, and Protection of Work.

310-6.3

Payment. The payment for the Anti-Graffiti Coating Installation shall be included in the lump sum Bid Item for "Construction of Park Improvements". This shall include all labor, materials, equipment and incidentals shall be included in the price for the individual item to which it is applied and within the lump sum project cost. No additional compensation shall be allowed therefore.

ADD:

SECTION 319 - SITE FURNISHING INSTALLATION

319-1

GENERAL.

Deliver, store and handle all furnishing materials to prevent damage. Install all factory-fabricated site furnishings in conformance manufacturer's specifications, instructions and recommendations. Contractor shall provide the owner with one copy of complete manufacturers installation instructions and maintenance kit.

All components shall be firmly and permanently affixed to concrete surfaces and/or footings to the satisfaction of the Resident Engineer. Tamper-resistant connectors and/ or epoxies shall be used to prevent theft. Contractor shall provide a submittal for the epoxy **per Section 2-5.3 "Submittals"**.

Site furnishings shall be installed accurately in the correct orientation, location and relationship with other improvements shown on the plans. For surface mount and/or coil rod application, epoxy shall be placed between site furnishing and mounting surface. Epoxy shall be placed in marked out location prior to site furnishing being placed on top. No excess epoxy shall be visible (emerging) from the joint. All excess shall be cleaned from adjacent surface with no darkening and/ or staining of finished surfaces.

Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from installation work. Protect site furnishings from damage throughout construction work.

See construction plans and details for location and layout. See **Section 219 - "Site Furnishings Materials"**, of these Special Provisions for model numbers of furnishings.

Apply anti-graffiti coating **per Section 310-6 "ANTI-GRAFFITI COATING INSTALLATION"**.

319-1.1 Measurement and Payment.

Payment for Site Furnishings shall be included in the lump sum Bid Item for "Construction of Park Improvements" and shall include full compensation for furnishing: all metal fasteners with pant and/or protective coating, expansion shields, adhesives, epoxy, labor, material, equipment, tools and incidentals required to complete the work specified and no additional compensation will be made therefore.

319-1.2 Additional Installation Provisions

319-1.2.1 Trash Receptacle Installation.

When trash receptacle has maintenance door, Contractor shall verify maintenance door orientation with City prior to securing in place.

Install trash receptacles 6-inches minimum from edge of hardscape and 10-feet minimum from seating areas.

319-1.2.2 Tables.

All tables shall be installed so there is a 4-foot minimum clearance from the outside edge of seating surfaces to other furnishings, posts and/or other vertical objects.

Accessible Tables.

Accessible tables shall be located where finish floor surfaces have a maximum slope of 1.5%, both directions.

319-1.2.3 Benches Installation.

Benches installed over permeable paver surfaces shall omit surface mounted anchor rods and be secured using epoxy.

319-1.2.5 Drinking Fountain Installation.

Install drinking fountain after completion of final grading and coordinate concrete paving area with drinking fountains mounting plate. Examine sub-grades, finished surfaces, and installation conditions. Do not start drinking fountain work until unsatisfactory conditions are corrected. Remove loose material and debris from base surface before placing drinking fountain.

Locate and layout drinking fountain, boxes and sump. Then obtain City acceptance of layout prior to installation.

Comply with all local plumbing codes. Installation shall be plum, secure and stable.

Locate and connect to potable water source including trenching and waterline per plan.

Sump installation shall include the excavation and placement of crush rock materials wrapped in filter fabric to the dimensions indicated on the plans. Layout of sump shall be provided with positive drainage away from the drinking fountain location.

319-1.2.6 Bike Rack Installation.

Embed bicycle rack end post plumb into a 12-inch dia x 12-inch depth Cast in Place concrete footing to the depths indicated on the plans. Ensure the top of the bike rack will be 36 inches above the indicated finish surface after the concrete paving has been constructed. Support the bike rack plumb for a minimum of 48 hours while footing cures.

319-1.2.7 Pet Waste Station Installation.

Dispenser units shall be mounted on a galvanized 12 gauge cold rolled 8' length x 2 inch SQ steel channel post meeting ASTM A446 Grade A. Galvanizing shall be per ASTM A525. Post shall have 7/16 inches diameter holes spaced 1 inch o.c. +/- 1/8 inch and shall have no more variation in straightness than 1/16" in 3'. Corner radii shall be 5/32".

Posts shall be embedment mounted plumb into a cast in 8" dia x 26" depth Cast in Place concrete footings. Top of post shall be 6' above finish surface. Allow concrete to cure.

Attach the Pet Waste Station components to 2" SQ steel channel in accordance with manufacturers recommended mounting heights, fasteners shall be galvanized steel and vandal resistant.

319-2 PLAY AREA & FITNESS COMPONENTS INSTALLATION.

319-2.1 2-5 Play Area, 5-12 Play Area & Fitness Equipment Installation. Explicit installation instructions shall be provided by the manufacturer, which shall include detailed, scaled plan view, elevations footing drawings and details, as well as written instructions to assure proper installation of the playground and fitness equipment, structure or modular unit.

Playground and Fitness equipment must be installed by a manufacturer certified installer and be installed in accordance with the manufacturer's installation specifications. Installation crew leader must be Manufacturer-certified. Contractor shall contact a minimum of 48 hours in advance to have a CPSI certified County Inspector to inspect the play equipment and rubber surfacing prior to acceptance. Any non-conforming items shall be repaired or replaced before acceptance.

Install all factory-fabricated landscape furnishings per manufacturer's specifications and recommendations. All components shall be firmly and permanently affixed to concrete base or footings to the satisfaction of the City and in conformance with the manufacturer's instructions. Anchor bolts cast into the concrete shall reinforce all attachments. Tamper-resistant connectors shall be used to prevent theft.

See construction plans and details for location/layout and model numbers of play equipment and fitness equipment.

All equipment installations shall observe the manufacturer's recommended safety zones. Safety zones shall be completely contained in the resilient surfacing area.

Clean-up: the site shall be kept clean and free of tools, trash, debris and installation materials on a daily basis. Material may be stored on-site during installation with appropriate protective measures and approval by the City.

Close out: contractor shall provide the owner with one copy of complete manufacturers installation instructions and maintenance kit. Each manufacturer sends at least two sets of installation manuals with each order. Additional sets of installation instructions should be purchased from the manufacturer if originals are lost or damaged. It is the contractor's responsibility to secure the installation instructions from the installer.

319-2.2 Measurement and Payment. The 2-5 year old play structure, 5-12 year old play structure and fitness equipment shall be measured for payment by each structure complete and in place. Payment shall be included in the lump sum Bid Item for "Construction of Park Improvements" and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in providing each play structure unit, complete in place, as shown on the Plans and as specified in these Special Provisions and directed by the City.

319-3 RESILIENT RUBBER SURFACING INSTALLATION.

319-3.1 Delivery, Storage and Handling.

Materials and equipment shall be delivered and stored in accordance with the manufacturer's recommendations.

319-3.2 Site Preparation.

- a) **Finished Grade/Slope.** Verify that finished elevations of adjacent areas are as indicated on the 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, site or equipment plans while meeting accessibility and use zones requirements.
- b) **Sub base.** Tolerance of concrete sub base shall be within 1/8 inch (3.0 mm) in 10 feet (3050 mm). Verify that subgrade has been fully compacted to 95 percent or greater.
- c) **Curing of Concrete.** If poured in place surfacing is installed, verify that concrete Sub base has cured and that all concrete curing compounds and other deleterious substances that might adversely affect adhesion have been removed. Surface shall be clean and dry.
- d) **Drainage.** Verify that sub-surfacing drainage has been installed to provide positive drainage.

319-3.3 Installation.

- a) **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 manufacture's recommendations. Installation of surfacing shall be seamless up to 2,000 square feet per day and completely bonded to concrete of sub base. Material shall cover all foundations and fill around all elements penetrating the surface.

Poured in Place surfacing must be installed on a dry sub-surface, with no prospect of rain within the initial drying period, and within the recommended temperature range of the manufacturer. Installation in weather condition of extreme heat, cold (less than 55 degrees F), and/or high humidity may affect cure time, and the structural integrity of the final product.

Immediate surrounding sites must be reasonably free of dust conditions or this could affect the final surface look. The manufacturer's Service Center Manager reserves the right to control the installation based on such factors without penalty to the manufacturer. Sequencing and Scheduling: Poured in place surfacing shall be installed after all playground equipment, shade

structures, signs and any other items that will be within the surfacing area. Surface installation coordinated by the manufacturer's representative.

- b) **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 in the plans) 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.
- c) **Wear Course.** Wear Course must be Thermal Plastic Vulcanized (TPV) granules. 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 sales representative for seamless installations in excess of 2000 square feet) Where seams are required due to color change, size or adverse weather, a 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 City's written approval seams may be permitted in same color pad. Consult with manufacturer for specific applications.
- d) **Perimeter.** For installations over existing concrete, the perimeter must be saw cut to provide a keyway to the width and depth indicated on the plans, or formed during the pour, with surfacing rolled down inside void. Primer adhesive must be applied to all sides of the void. When connecting to a concrete curb or boarder the inside vertical edge shall be primed with adhesive. Cushion layer shall be tapered at a 45° angle as indicated on the details to allow the color wear surface material to be poured into the key where it joins the concrete edge. Color wear layer shall be flush with adjacent finish surface with a hand tooled edge to the radius indicated on the plans.
- e) **Thickness.** Construction methods, such as the use of measured screeds or guides shall be employed to ensure that full depth of 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. Contractor shall verify cushion layer to meet CPSC Guidelines and ASTM 1292 for fall heights for each piece of equipment.
- f) **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.

- g) **Protection.** The safety surface shall be allowed to fully cure in accordance with Manufacturer's instructions. The surface shall be protected by you from all traffic during the curing period of 48 hours or as instructed by the manufacturer.
- h) **Manufacturer's Services.** For poured in place safety surfacing, a manufacturer's representative who is approved to install playground safety surfacing. The representative shall supervise the installation to ensure that the system meets the impact attenuation requirements as specified herein.

319-3.4 Warranty.

Poured in place surface shall maintain required impact attenuation characteristics and be guaranteed against defects in workmanship AND material for a limited seven (7) year period or as specified and agreed upon per alternate contract. Warranty will be specific to maintenance requirements and performance standards of completed product.

319-3.5 Payment. Payment for resilient rubber surfacing shall be included lump sum Bid Item for "Construction of Park Improvements". The Contract Price shall include full compensation for furnishing all labor, materials, tools, equipment, concrete base, trench drainage systems and piping, and incidentals, and for doing all the work involved in providing the resilient rubber surfacing, complete in place, as shown on the Plans and as specified in these Special Provisions and directed by the City

319-3.6 Independent Play Audit.

The Contractor shall be responsible for providing an Independent Audit of the playground area, resilient surfacing and all play equipment. The audit shall be conducted by a third-party Certified Playground Safety Inspector approved by the City (Park and Recreation Department). The audit shall confirm compliance with the most current versions of accessibility and safety standards, including, but not limited to, the following: Americans with Disabilities Act (ADA), Consumer Product Safety Commission's (CPSC) "Handbook for Public Playground Safety", and the American Society for Testing and Materials (ASTM) "Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment for Public Use," "Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment" and "Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment."

The Contractor shall be responsible for correcting any items found not to be in compliance with the above standards as a result of the Audit. The Contractor shall provide to the Park and Recreation Department, Landscape Architect, City, written certification, signed by the certified playground safety inspector stating that the playground area, surfacing, and play equipment is in compliance with all current applicable accessibility and safety standards.

The cost of the play audit shall be included in the lump sum Bid Item for "Construction of Park Improvements", and no additional payment shall be made.

319-4 PREFABRICATED RESTROOM BUILDING INSTALLATION

319-4.1 Building Pad/ Foundation Installation.

The Contractor shall prepare the restroom building subgrade to receive the prefabricated building in accordance with the bid subgrade preparation drawings or foundation plan.

1. The building subgrade/footings shall be constructed per the plans.
2. The Contractor shall provide water point of service at 30" below finished building slabs; sewer at 24" below the finished building slabs; and electrical at 36" below the finished building slabs or other per bid plans.
3. Contractor shall coordinate with prefabricated restroom subcontractor to provide full site delivery access for a 70' tractor-trailer and hydro crane to the final building sites.
4. If the final site access is over existing sidewalks, utilities, or landscaping, the Contractor shall be responsible for plating and or tree trimming, utility line removal, or other to protect any existing conditions.
5. The hydro crane shall be able to locate no greater than 35' from the center point of the building to the center point of the crane.
6. The utilities shall be furnished per bid site plans at specified points of connection (POC) nominally 6' from the building lines.
7. Contractor shall furnish and install final grading, landscaping and sidewalks.

319-4.2 Connection to Utilities.

The restroom subcontractor will stub-out: Electrical, Water, and Sewer at the proper POINT OF CONNECTION AND AT THE PROPER ELEVATION BELOW GRADE, for this project. Restroom subcontractor shall provide final hook up of the water from building to POC; sewer hookup to POC; and electrical sleeve from building panels to POC only. Final utility connections shall be by Contractor or others. Contractor shall flush the water lines thoroughly before making final water connection to the building. **Thoroughly flushing the water lines for AT LEAST 30 MINUTES is critical to ensure that the new code required low-flow fixtures and flush valves that are extremely sensitive to particulate matter in the water will not malfunction. Contractor shall flush all lines per spec Section 306-8.9.4 "Disinfection".**

319-4.3**Mat Engineered Concrete Building Slab/Foundation.**

1. The mat engineered 8" thick slab/foundation shall be engineered and constructed to withstand the transportation weight of the building without cracking and to resist absorption from any liquids deposited on the surface. The concrete slab shall be constructed inside a steel angle curb, reinforced with dual mats (tension and compression,) and poured with a custom concrete formula with special admixtures to create a finished slab that is water proof for life.
2. The building slab/foundation will include the area under the covered entry.
3. Perimeter Steel Curb: 5/16" 50,000 kip steel 6" X 6" welded continuous angle.
4. Rebar Steel Mat: Two layers of 40,000 tensile steel rebar in varying sizes per engineers requirements, including a perimeter structural continuous grade beam design inside the exterior steel angle and at any other location deemed by the engineer of record as required for the use intended. In coastal locations or when required for corrosion resistance rebar shall be epoxy coated or fiberglass to resist permanent corrosion. Rebar mats shall be wire tied to code with a minimum of three turns of the wire and overlaps shall be minimum of 15 diameters for any connection.
5. All slab openings shall be surrounded with two layers of steel collars as required by the engineer of record to stop corner cracking and to reinforce the openings for lifting.
6. 1" thick by 3" minimum length threaded nuts shall be welded to the steel perimeter frame with continuous ¼" fillet welds. Nuts shall be welded to common steel plates per the engineer of records design and attached to the interior steel rebar structural mats.
7. The manufacturer's engineer of record shall provide lifting locations with sufficient reinforcement to allow the safe lifting of the entire designed weight of the structure with dual 1" steel bolts and washers at each lifting location. The number of lifting locations with each location fitted with removable ¾" 8" X 8" 50,000 tensile strength steel angles shall be determined by the engineer of record.
8. The slab shall be poured over a 1" thick steel plate table. The concrete mix design shall not exceed a 3" slump and shall be stinger vibrated for maximum consolidation. All floors shall slope to any floor drains within each room and if no floor drain is present the floor should not slope. The surface shall be a very light broom that should meet a coefficient of friction on the surface of .06. Birdbaths shall be cause for rejection.

9. The steel perimeter angle will remain below the concrete surface by nominal two inches to prevent corrosion. After the site concrete sidewalks are poured, the joint shall be full flow sealed with self-leveling grey urethane caulk to prevent penetration of water into the joint.
10. The building shall be designed for future relocation and shall provide protection for the lifting openings in the mat slab so that the threaded openings will be available for future use if needed.
11. The building systems shall be designed for placement on a Contractor site prepared class 2 building pads/and or footings as required by code, per the bid drawings, suitable for 1500 pounds soil bearing capacity minimum. Any soils survey (if necessary) shall be by owner or engineer of record.

319-4.4 Exterior & Interior Masonry Block Walls.

1. The block walls shall be nominal 8" x 16" CMU. The building corners shall have special corner return block that matches the exterior finish and creates a uniform appearance. All CMU shall be custom fabricated with an enlarged interior hole for placement of the grout and vertical rebar. The exterior walls shall be 4" thickness per State of California codes or engineering for wind and seismic. The interior walls shall be 4" block to nominally 7'-4" above finished floor and framed with applicable required finishes above for pony and gable walls. A structural steel tubular .188 wall cap beam shall be welded to 5/16" 40,000 kip steel plate embeds, at intervals per the engineer of record, within the masonry wall. Cap beam shall be ZRC primed and painted, color schedule **per Section 219-4 "PREFABRICATED RESTROOM BUILDING"**.
2. The 8" mat engineered concrete slab shall be cured a minimum of 7 days. Holes for vertical dowels shall be drilled into the mat engineered slab avoiding any grade beams or other structural reinforcement. Once the holes are drilled, blow out the remaining material and using two part structural epoxy, wet set the #3 or #4 vertical rebar (as specified on the engineering calculations into holes drilled to the depth per the engineer of record requirements. Each rebar shall be held vertical to allow equal epoxy support to each dowel during the drying period. Engineering calculations require that rebar shall be installed in each concrete block center void or every block hole. The engineered uplift on each rebar shall be sufficient to restrain any load imposed on the masonry block wall for vertical rebar pull out from the concrete mat engineered slab.
3. The block walls shall be nominal 8" x 16" CMU. The building corners shall have special corner return block that matches the exterior finish and creates a uniform appearance. All 4" CMU shall be custom fabricated with an enlarged interior hole for placement of the grout and vertical rebar.

319-4.5 Roof System.

1. The roof structure shall be 2" x 6" wood rafters at 24" on center with 5/8" OSB sheathing and ice and water shield membrane with 26 gauge standing seam metal roof panels. Building roof rake and fascia shall be wrapped with 14 gauge formed metal to match roof, painted. Soffit area to be painted. Color schedule **per Section 219-4 "PREFABRICATED RESTROOM BUILDING"**.
2. The roof design by manufacturer shall exceed compliance with local code at 20 PSF live load and wind load "C".
3. The restroom ventilation screens (described in a following section) shall be attached to the gable truss frames and vandal resistant.
4. The truss at the gable end shall be nominal 6" x 6" structural steel with nominal 6" x 6" structural steel posts and horizontal beam. They shall be primed and painted. Color schedule **per Section 219-4 "PREFABRICATED RESTROOM BUILDING"**.

319-4.6 Interior Wall Finish.

Interior precision CMU block masonry walls (Restroom) shall be smoothed to a pebble grain finish with 2-4 mil layers of 7-day curing block fillers and painted with two additional 4 mil layers of industrial high solids industrial grade enamel. Walls shall be painted with industrial high solids enamel. Color schedule **per Section 219-4 "PREFABRICATED RESTROOM BUILDING"**.

319-4.7 Exterior Wall Finish, Masonry and Gable.

1. The building exterior finish shall be a mix of split-face and precision 8" x 16" CMU to wall height per the exterior elevations in the bid plans. The block shall be coated with two-4 mil layers of special 7-day curing block fillers and painted with two additional layers of industrial high solids, gloss enamel to a 4 mil thickness. Color schedule **per Section 219-4 "PREFABRICATED RESTROOM BUILDING"**.
2. Anti-graffiti coating shall applied **per Section 210.1.1.1**.

319-4.8 Gable Ventilation System (Restroom).

Shall be woven ¼" X 1" X 1", 316T stainless steel wire mesh set in welded stainless steel angles attached to the CMU wall with vandal resistant stainless steel screws, per plans.

319-4.9

Doors and Gates

1. The entry doors shall be 7' 0" high, custom fabricated, 14 gauge steel; High density foam filled; reinforced with 14 gauge steel ribs welded at 6" intervals on each face, concealed; reinforced with a welded plate for door closer mounting; hung on a single continuous, 1 million cycle, aluminum gear hinge with stainless steel vandal resistant screws at nominal 4" on center. The doors shall weigh nominally 176 lbs each for a 36" X 84" door. Custom fabricated 14 gauge steel door jambs with 4" steel heads shall be welded to the steel cap beam and be solid filled with 3000 psi masonry grout mix. Doors and frames shall be painted. Color schedule **per Section 219-4 "PREFABRICATED RESTROOM BUILDING"**..
2. All exterior entry doors and gates shall have a ¼" thick stainless steel "Z-shaped" anti-microbial pull handles with integral latch guard and Best 83T (IE7 series cylinder/IC7 series core) commercial series dead bolts.
3. The door closer (restroom entry doors only) shall be "LCN" heavy duty #4210 Series, fastened to a structural reinforced door plate per door manufacturer design. Stainless steel vandal resistant fasteners shall be used on all hardware.
4. Stainless steel vandal resistant fasteners shall be used on all hardware.

319-4.10

Specialties.

1. All specialty washroom equipment shall be commercial grade stainless steel fastened securely to walls with vandal resistant stainless steel screws to avoid removal by vandals as follows:
2. Toilet paper holders shall be Bobrick B-2888, covered, two-roll, stainless steel with lock. Toilet paper holders shall be attached to block walls with 4 epoxy bedded vandal resistant stainless steel fasteners.
3. Stainless steel grab bars to code shall be 1 ¼" minimum exposed fastener vandal resistant design and installed at each accessible water closet.
4. Cast Aluminum California Title-24 compliant signage shall be recessed into block surface flush with masonry exterior and door sign shall be blind fastened with epoxy adhesive and stainless steel fasteners. Wall signs shall have raised pointed Braille tips. Wall signs shall comply with codes related to single-occupant toilet rooms and read "All Gender Restroom".
5. Soap dispensers shall be a remote central stainless steel tank (located in utility chase) with poly piping to soap valves integral to the lavatory.

319-4.11**Plumbing.**

1. Building shall be fully compliant with current with the following codes:
 - a) All applicable State of California Building Codes. Latest edition applicable.
 - b) California Plumbing Code. Latest edition applicable.
2. **General.** All components and fabrications shall be designed to reduce life cycle maintenance, be compatible with current maintenance spare parts, and shall be listed in a spare parts/maintenance manual (two copies) delivered in utility chase of building.
3. **Water Piping.** Shall be type L copper soldered per code above grade and type K with silver solder below grade. All water piping shall be designed and constructed with high and low point drain fittings. All piping shall be mounted on Uni-strut wall brackets with neoprene isolators, to code.
4. **Water Pressure Gauge/Valve Combo.** Install three commercial grade industrial water pressure gauges (one on incoming line, one at pressure regulator valve and one after water filter), isolation ball valves, 150 PSI pressure regulator with wye strainer, 10-micron water filter with clear canister, and check valve.
5. **Plumbing Faucets, Isolation Valves And Actuators.** All fixtures except those with flush valves shall be isolated with ball valves for each fixture, concealed antimicrobial impregnated flush handle valves, and metered push-button lavatory faucets.
6. **Dwv Piping.** DWV piping shall be concealed behind the wall. DWV piping shall be PVC DWV, solvent welded, for all concealed piping. A cast iron no hub DWV vent pipe with a cast iron roof mounted vandal cap vent shall be required, through the roof.
7. **Removable Pipe Traps.** All floor drain, sink drain, and waste traps shall be removable for maintenance. Floor drains shall be trapped behind the wall in the utility chase using a combination waste and vent system. Floor drains shall be increased two pipe sizes over standard to allow code use. Trap primers for restroom floor drains shall not be used as restroom maintenance is hose-down. All surface mounted utility chase piping shall be mounted on Uni-strut with plastic isolators to code. Sink drain traps shall be concealed behind the utility chase walls where maintenance staff can access all plumbing.

8. **Plumbing Fixtures.** Plumbing fixtures shall be 14-gauge stainless steel manufactured by Acorn or approved equal. Toilets shall be wall hung, rear discharge, with concealed, ADA-compliant, button-type, flush valves. Toilet seats shall be black solid core plastic, non-flammable construction with continuous stainless steel concealed self-checking hinges. Lavatories shall have concealed remote traps behind the mechanical wall. Schedule of fixtures:
 - a) Water Closets: Acorn Penal-Ware, 1675-W-1-HET-FVBO-9-ADA-PFS or approved equal
 - b) Water Closet Flush Valve: Zurn ZH6152AV-HET-7L-BG or approved equal
 - c) Lavatories: Acorn Penal-ware 1652LRB-1-DMS-03-M-H1 or approved equal
9. **Floor Grates.** Removable 350 lbs per square foot pultruded fiberglass non-skid floor grates shall be installed over every opening in the utility chase for OSHA compliance.
10. **Hose Bib.** There shall be one Woodford 24B or approved equal hose bib provided in the utility chase.
11. **Hose Reel.** There shall be one commercial grade Rapid Reel hose reel (1041-GH) with a 75' commercial grade hose.

319-4.12 Electrical.

1. **General.** Electrical system and components shall be commercial grade or better and piping conduits shall be installed on commercial Uni-strut wall hangers. Interior electrical lighting fixtures in public areas shall provide lifetime manufacturer's warranty.
2. **Panel/Wiring.** One 100 amp, 120/240v, single-phase, industrial grade Panel Board, Square "D" QOD series with 100 amp main circuit breaker, shall be mounted in the utility chase in the restroom building. All breakers shall be bolt-on type, minimum 10,000 A.I.C. RMS (Sym). Wiring shall be copper wire #12 min in EMT piping with compression fittings.
3. **Piping.** All piping shall be surface mounted to the masonry block walls with minimum of 2" fastener penetration. EMT conduit shall be compression type. Main panel shall maintain a 30" X 36" safety code required clear space, floor to 6' above finished floor.
4. **Hand Dryers.** Shall be concealed Fastaire HD03, with operating equipment remotely located in utility chase.

5. **Water Heaters.** Shall be tankless, Stiebel-Eltron DHC-8/10-E or approved equal Water heater shall be located in the utility chase. There shall be a tempering valve servicing the restroom lavatories.
6. **Exterior Lighting.** Luminaire YWP610 or approved equal, 15 watt, LED, 4000k, bronze, vandal resistant, high-impact polycarbonate lens fixtures shall be installed (one above each restroom entry door and one at the gable end of the storage room.)
7. **Interior Lighting.** Luminaire SWP610 or approved equal, 15 watt, LED 4000k, bronze vandal resistant high-impact polycarbonate lens fixtures shall be installed in the restrooms per plans (one in each restroom). The chase shall have two 4' single-tube, 18 watt LED fixture, suitable for wet locations, with a single switch at door entry.
8. **Lighting Control.** All interior restroom lighting shall be controlled by a Tork 7200zl Astrological or approved equal time clock mounted in the utility chase and 2 bypass switches (one for interior lighting and one for exterior lighting), so maintenance staff can check operation during daylight hours. A single photo cell, roof mounted, and shall control all exterior lighting.
9. **Electrical Outlets.** One (1) commercial spec grade duplex outlet shall be located in the utility chase adjacent to the panel.

319-4.13 Certifications.

Building shall be certified in compliance with the plan approval by the State of California, Department of Housing and Community Development. The building shall be delivered with an applied insignia; in compliance with all State regulations. The City shall provide site inspections for the underground mechanical piping and final connections, footings, and access issues outside the restroom footprint. Restroom building subcontractor shall also furnish 5-year warranty, certifications for the concrete slab specification compliance, and maintenance manuals for the building and components.

319-5 PREFABRICATED SHADE STRUCTURE INSTALLATION

319-5.1 Installers Storage and Handling.

- A. Protect building products after arrival at destination from weather, sunlight, and damage.
- B. Installer shall store product elevated to allow air circulation and to not introduce mold, fungi decay or insects to the product.
- C. Product must be handled with protective straps or padded forks if lifting with mechanical equipment. Use of chain or cable to lift product into place will not be accepted and may void manufacturer's warranty.

319-5.2 Erection.

A. Installation.

Install all components according to manufacturer's installation instructions and these specifications.

B. General Contractor.

Interface with other work is to be coordinated by the Contractor. Certain designs have electrical or other plumbing requirements that are not supplied by manufacture.

C. Tolerances.

Tolerances on steel structural members are set according to AISC construction practices, abided in the factory, and cannot be increased. No field slotting or opening of holes will be allowed. It is therefore essential that contractors conform to the tolerances specified on the installation drawings for anchor bolt or column layout details.

D. OSHA Compliance:

OSHA Compliance to Steel Erection Standard 29CRF 1926 Subpart R-Steel Erection.

319-5.3 Repair.

- A. Do not attempt any field changes without first contacting manufacture.

319-5.4 Field or Site Quality Control.

- A. Field or Site Tests and Inspections are not required by manufacture but may be required by the City

319-6 PREFABRICATED SHADE SHELTER INSTALLATION

Contractor shall install the Prefabricated Shade Shelter per the most current installation instructions provided by the manufacturer. Installation instructions per this section are provided for bidding purposes only

1. Install Uprights (10" Pipe / ~285 lbs / x2)

- A. Level bottom J-bolt nuts so that all nuts on both footings are at the same level.
- B. Place washers on bottom J-bolt nuts.
- C. Use crane, forklift, or similar to set uprights (top slopes down toward other upright) onto leveled nuts.

- D. Install washers and nuts on top of baseplates. Do not final tighten until 3C.
- 2. **Assemble Bow Halves** (5" Pipe / ~430 lbs / x2)
(When Applicable)
 - A. Use crane, forklift, or similar to help bow halves slide together and align screw holes.
 - B. Install screws and final tighten.
- 3. **Install Bow** (5" pipe / ~860 lbs / x1)
 - A. Use crane, forklift, or similar to lower bow into position on uprights.
 - B. Person on ladder to align bolts and bolt holes. Adjust uprights spacing as necessary to achieve bow fit and level uprights.
 - C. Install bolts, complete with washers and nuts. Final tighten all bow nuts and baseplate nuts.
- 4. **Install Arms** (5" pipe / ~290 lbs / x4)
 - A. Use crane, forklift, or similar to help person on ladder slide arms onto upright side posts and align screw holes.
 - B. Install bolts and final tighten. All structural hardware should be final tighten at this time.
- 5. **Install Canopy**
 - A. Prefabricated Shade Shelter can come with six easy tensioning devices called "drawscrews" that are driven by an 11/16" socket. Remove the drawscrew covers and drive the "ball studs" to their extreme inboard position. Do not jam the ball stud carrier into the end of the drawscrew.
 - B. Orient and drape canopy over bow so that center seam is parallel to and directly above bow, with smooth side of fabric facing up. TSP label should face down.
 - C. Hook the two end (highest) loops to the ball studs at the end of the bow. Hook the remaining loops to their corresponding ball studs in the order illustrated.
 - D. Canopies are designed to "stretch" into their final shape, so extra effort getting the 5th and 6th points on the drawscrew is normally required.
- 6. **Tensioning Canopy**
 - A. Using a socket wrench or driver and a 11/16" socket, tension the end points (highest) to half (~6") of their travel opportunity. Tension slowly and steadily.

- B. Tension the corner (lower) points, each to half (~6") of its travel opportunity.
- C. Please wait a suitable number of days before beginning second phase tensioning. In hotter conditions, approximately 7 days. In cooler conditions, approximately 14 days.
- D. After sufficient time has passed, repeat tensioning each point half of available travel opportunity (~3").
- E. After sufficient time, final tension canopy until loop is pulled to end of the drawscrew slot. Do not jam ball stud into end.
- F. Snap cover over the drawscrew.

SECTION 700 – MATERIALS

ADD:

700-10

(Section 86-11) GENERAL ELECTRICAL REQUIREMENTS

700-10.1

(86-11.01) Description - All electrical work shall be in conformance with the plans, and current State, Federal and Local Electric Codes, SDG&E Standards and City of San Diego Park and Recreation Department Consultant's Guide to Park Design and Development Design Manual,. Work includes, but is not necessarily limited to, providing site power systems as follows:

- 1. Complete electrical primary & secondary conduit systems, including all pull and all meter pedestals, handholes, splice boxes, pads, and other associated components.
- 2. All conduit and feeder conductors for site work components.
- 3. All site area lighting, including service and conduit together with related controls and photocells.
- 4. All required trenching, soil removal/replacement, compaction and pavement repairs, to current City standards.
- 5. Payment of all permit fees, utility company installation charges, SDG&E service orders, engineering fees, relocation costs, and related charges, as applicable.

700-10.2

(86-11.02) Schedule - The Contractor shall obtain information and instructions from other Contractors on the site and other trades and suppliers in ample time to schedule and coordinate the installation of items furnished by them under this section so that provisions for their work can be made without delaying the project.

700-10.3

(86-11.03) Accuracy of Data - The electrical drawings are diagrammatic, but shall be followed as closely as actual construction and work in other sections will permit. All deviations from drawings required to conform to site conditions and to the work of others, shall be made as directed by City.

700-10.4 (86-11.04) Submittals

1. Materials List - Provide complete materials list of all proposed products, including catalog cuts of manufactured items.

700-10.5 (86-11.05) Quality Assurance

1. Manufacturer shall have the capability to produce the specified products to the delivery and quantity criteria of the project.
2. Staff - For fabrication and installation of work, use only personnel who are thoroughly trained in the skills required, and who are completely familiar with the manufacturers' recommended methods of installation as well as the requirements of this work.
3. Inspections – Contractor shall request from the City all inspections of work for review and approval during the installation of site electrical and lighting improvements.

700-10.6 (86-11.06) Guarantee – See specification **Section 6-8.3 "Warranty"** for this work.

700-10.7 (86-11.07) Product Handling

1. Protection - Use all means necessary to protect the materials of this section before, during, and after installation and to protect the work and materials, of all other trades.
2. Replacements - In the event of damage, immediately make all repairs and replacements necessary to the approval of the Engineer and at no additional cost to the City.

700-10.8 (86-11.08) Covering of Unreviewed Work - No work shall be covered, or enclosed, without review, testing, and/or approval by City. Work enclosed or covered prior to review and test shall be uncovered at Contractor's expense. After review, retest for approval and repair with material necessary to restore to original and proper condition.

700-11 (Section 86-12) ELECTRICAL COMPONENTS

700-11.1 (86-12.01) Conduit

1. Rigid Non-metallic Conduit - Heavy-wall rigid non-metallic conduit, where permitted, shall be Carlon or approved equal, PVC Schedule 40 manufactured in accordance with NEMA TC-2, UL-651 and WC 1094A specifications.

Conduit shall be delivered to site in standard lengths with each length bearing the manufacturer's trademark or stamp and U.L. Labeled.

Conduit shall be minimum 3/4 inch or larger in diameter.

All conduits shall contain equipment grounding conductors.

700-11.2 (86-12.02) Wire/Conductors

1. All wire and cable shall be rated for 600 volt, be color-coded, shall bear the Underwriters' Label, and shall be brought to the job in unbroken packages.
2. Wire coding shall be in accordance with the provisions of Section 210-5 of the latest edition of the National Electric Code.
3. All conductors unless noted otherwise shall be copper, No. 12 AWG minimum size. All conductors shall be stranded. Insulation type, unless otherwise noted, shall be as follows:
4. Feeder conductors: Type THW, 75 Degrees C.
5. Fixture and branch circuit conductors: Type THHN/THWN: XHHW or RHH - minimum 90 degrees C, unless otherwise noted.
6. Acceptable Manufacturers: General Wire and Cable Corp., Okonite Wire and Cable Corporation, Southwire or approved substitute.
7. All branch circuit conductors shall be labeled with circuit numbers.
8. One neutral conductor for each phase conductor pulled.
9. For wire #10 AWG and smaller provide Buchanan connectors or approved substitute. For wire #8 AWG and larger provide T&B "Lock-Tite" connectors or approved equal.
10. All connections shall be taped with rubber tape 1-1/2 times the thickness of the conductor insulation, then covered with Scotch #33 tape, or approved equal.
11. Splices in underground distribution systems shall be made only in accessible locations such as handholes, with a compression connector on the conductor and by insulating and waterproofing by the following methods suitable for continuous submersion in water. Provide cast-type splice insulation by means of molded casting process employing a thermosetting epoxy resin insulating material applied by a gravity-poured method or by a pressure-injected method. Provide component materials of the resin insulation in a packaged form ready for convenient mixing without removing from the package. Do not allow the cables to be moved until after the splicing material has completely set.

700-11.3 (86-12.03) Pull/Splice Boxes (Below Grade) - All pull boxes shall be sized and constructed per serving utility requirements, using precast ring design for box. Provide cover lid as required for pedestrian or vehicular traffic condition, with bolted connections, and labeled with name of serving utility. All boxes shall be located above grade in landscape areas and flush with pavement in paved or traffic areas.

- 700-11.4** **(86-12.04) Site Lighting** - Lighting fixtures and poles shall be per the schedule on the drawings or approved equal as accepted by the Engineer and shall include all accessories for a complete system. Provide #6 AWG connection from pole ground lug to reinforcing of concrete footing base. All pole mounted fixtures shall be 'full cut-off' per the ordinances as set forth by the City of San Diego.
- 700-11.5** **(86-12.05) Other Materials** - All other required materials shall be new, of highest quality for applicable use, and per approval of local agency, servicing utility, and City of San Diego.

SECTION 800 – MATERIALS

- 800-1.2.2** **Manure.** To the "GREENBOOK" and "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

Manure shall not be used.

- 800-1.2.4** **Organic Soil Amendment.** DELETE in its entirety and SUBSTITUTE with the following:

Organic Soil Amendment shall be Type 4, compost as follows:

Type 4 organic soil amendment (compost) shall be derived from Green Material (yard waste and/or food waste) that is composted in accordance with California Code of Regulations, Title 14, Chapter 3 Article 7, 17868.3 (15 Day Process to Further Reduce Pathogens and kill weed and other seeds). Incorporated into the soil, compost improves soil texture; increases both nutrient and water holding capacity; and reduces the need for commercial fertilizer. Where applicable, Organic Soil Amendment can qualify as a component of LEED certification.

Type 4 organic soil amendment shall come from a compost facility that tests its compost on a quarterly basis and meets the requirements listed in **Table 800-1.2.4**. You shall provide a copy of the most recent quarterly test results and a current representative sample of the compost to be used on the project to the City prior to approval and the compost being used.

The City of San Diego's Miramar Greenery produces Type 4 organic soil amendment (compost) and complies with the U.S. Composting Council's Seal of Testing Assurance Program. The Miramar Greenery is located within the City's Miramar Landfill at State Hwy. 52 and Convoy St. in San Diego.

<http://www.sandiego.gov/environmental-services/miramar/greenery/>

Table 800-1.2.4

Test Criteria	Acceptable Range	Unit of Measure	TMCC Test Method
pH	6.0 – 7.5		04.11-A 1:5 Slurry pH
Soluble salts	0 - 10	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method
Organic Matter	30 - 75%	% dry weight basis	05.07-A Loss-on-ignition Organic Matter Method (LOI)
Stability	≤ 8	mg CO ₂ /g OM/day	05.08-B carbon Dioxide Evolution Rate
Maturity	> 80% emergence	average % of control	05.05-A Germination and vigor
Pathogens			
Fecal coliform	Pass	Pass/Fail per U.S. EPA Class A standard, 40CFR 503.32(a)	07.01-B Fecal coliforms
Salmonella	Pass	Pass/Fail per U.S. EPA Class A standard, 40CFR 503.32(a)	07.02 Salmonella
Heavy Metal	Pass	Pass/Fail per U.S. EPA Class A standard, 40CFR 503.13(a) Tables 1 and 3.	04.06-Heavy Metals standards, and Hazardous Elements.
Particle Size	$\geq 90\%$	% dry weight passing through 11mm	02.02-B Sample Sieving for Aggregate Size Classification

800-1.2.5 Mulch. To the "WHITEBOOK", ADD the following:

Mulch shall be Type 7 and shall be free of weeds, leaves, non-woody and deleterious material. Average dimensions shall be 1" to 3" in length, 1/2" in thickness, and a natural dark brown color. Submit two (2) samples for approval by the City prior to installation.

800-1.2.6 Inorganic Soil Amendments. To the "WHITEBOOK", ADD the following:

3. Soil sulfur shall be 99.5% elemental. Sizing on stacked screen shall be approximately: 8 mesh 4.3%; 20 mesh 7.8%; 50 mesh 46.9%; 100 mesh 39.3%; 200 mesh 1.7%.
4. Soil conditioner shall be granular, tri-c humate plus, a blend of humate and gypsum or approved equal, and shall contain 25% humic acids. It shall be free flowing, suitable for application with approved equipment and shall contain the minimum available percentages of 7% calcium and 5% sulphur.

ADD:

800-1.2.7 Herbicides and Pesticides. Herbicides and pesticides shall be used in their appropriate applications with strict adherence to manufacturers' specifications and instructions. Herbicides and pesticides shall be applied by licensed applicators. The Contractor shall obtain approval for any and all pesticide and herbicide use in writing from the City.

Pre-emergent herbicide for shrub and groundcover areas (planted from flats) shall be Treflan, Surflan, Eptan, or approved equivalent.

Post-emergent herbicide for all areas shall be Round Up, Diquat, Montar, or approved equivalent, except for areas where it may contact standing or running water.

Post-emergent herbicide for all areas where herbicide may come in contact with standing or moving water shall be Aquamaster, Rodeo, or approved equal specifically approved for use near water bodies. These herbicides are approved for use within the riparian areas by the City and County of San Diego because it has been determined to be non-toxic to aquatic organisms. Other herbicides shall be approved by the City and County of San Diego prior to use on only the most noxious weeds, and only under the direct supervision of the City.

800-1.4.1 General. To the "WHITEBOOK", ADD the following:

8. Contractor shall notify the City a minimum of 48 hours before each plant delivery so the City can schedule a review.
9. Availability: Within 2 weeks of the start of work, the Contractor shall place orders for all plant material in sufficient time to reserve or grow the plants for the project. No substitutions will be allowed. If plants are not available, the Contractor shall have the specified species contract grown by a reputable

plant nursery. Provide nursery name and resume for review and approval prior to contract growing.

10. Quality and Size: Plants shall be in accordance with the California State Department of Agriculture Regulations for Nursery Inspections of Rules and Grading. Nursery tags must be submitted to the City. Sizes shall conform to the dimensions indicated on the planting plan.
11. Quantities: Plant quantities indicated on the plans are for Contractor's convenience only. Quantities of all plant materials shall be furnished as needed to complete work as shown on the Plans.
12. The City is the sole judge as to acceptability of each plant. Vigorous, healthy, well-proportioned plants are the intent of this specification. Plants which are even moderately "overgrown," or are showing signs of decline or lack of vigor are subject to rejection. The size of the plants will correspond with that normally expected for species and variety of commercially available nursery stock, or as specified in the special conditions or plans. Plants larger in size than specified may be used with the approval of the City and Landscape Architect, but the use of larger plants will make no change in contract price. If the use of larger plants is approved, the ball of earth and spread of roots for each plant shall be increased proportionately.
13. Rejection or Substitution: The City reserves the right to reject any plant material found to be defective or not in conformance with plans and specifications. Plants shall be subject to inspection and approval or rejection at the project site at any time before or during progress of work, for size, variety, condition, latent defects, and injuries. All plants not conforming to the requirements herein specified shall be considered defective, and such plants, whether in place and installed or not, shall be marked as rejected and immediately removed from the site and replaced with new plants by the Contractor at his expense. Rejected plant material shall be replaced within one week of written notice, unless otherwise approved by the City.

Substitutions will not be permitted except if proof is submitted that any plant specified is not obtainable, then a proposal will be considered for use of the nearest equivalent size or variety and cost. All substitutions are subject to City's written approval.

14. Right to Changes: The City reserves the right to change the species, variety, and/or sizes of plant material to be furnished, provided that the cost of such plant changes do not exceed the cost of plants in the original bid, and with the provision that the Contractor shall be notified, in writing, at least thirty (30) days before the planting operation has commenced.

800-1.4.2 Trees. To the "GREENBOOK", ADD the following:

3. All trees (24" box, 36" box, and 48" box) shall:

- a) Be of the specified type and size as indicated on the Plans, selected from high quality, well-shaped and proportioned Southern California-grown nursery container stock. Field grown stock grown in climatic regions which are different (as determined by the City) to those conditions found at the project site, shall have been acclimated to a climate similar to their intended locations prior to delivery and shall be accompanied by letter and/or certificate from the nursery that the plant materials are suitable for said locations or they will not be accepted.
- b) Have grown in containers for sufficient time to permit full rooting within the container to bind the soil but not so long as to create a root bound condition. No container plants that have cracked or broken balls of earth, when taken from the container, shall be planted. No plants with damaged roots, broken root balls, or root bound, when taken from the container shall be planted.
- c) Have a main leader branch and not a co-dominant branching structure, unless the tree is intended to be multi-trunk.
- d) Be free of weeds, native grasses, Bermuda grass, and Kikuyu grass.

800-1.4.3 Shrubs. To the "GREENBOOK", ADD the following:

Field grown stock grown in climatic regions which are different (as determined by the City) to those conditions found at the project site, shall have been acclimated to a climate similar to their intended locations prior to delivery and shall be accompanied by letter and/or certificate from the nursery that the plant materials are suitable for said locations or they will not be accepted.

Contractor shall assure that shrubs are grown in containers for sufficient time to permit full rooting within the container to bind the soil but not so long as to create a root bound condition. No container plants that have cracked or broken balls of earth, when taken from the container, shall be planted. No plants with damaged roots, broken root balls, or root bound, when taken from the container shall be planted.

Containers for shrubs shall be free of weeds, native grasses, Bermuda grass, and Kikuyu grass.

800-1.5.3 Tree Stakes. To the "WHITEBOOK", ADD the following:

3. Tree stakes shall be two (2) inch diameter lodge pole stakes, pointed on one end. For trees with container sized greater than 36" box shall utilize three (3) inch diameter lodge pole stakes, pointed on end with a minimum length of 10'-0".

800-1.5.4 Tree Ties. To the "WHITEBOOK", ADD the following:

4. Ties shall be made of minimum 1-inch width material and shall be of suitable length to wrap the trunk caliper and prevent rubbing when installed in a 'figure 8' method around stake and tree.

ADD:

800-1.7 Perforated Pipe.

Perforated pipe for tree drain: Shall be 4" Polyvinyl chloride SDR35 perforated pipe. Perforated pipe shall meet ASTM F-758 and AASHTO M-278. Pipe shall be supplied with a spun bonded filter sleeve to protect pipe from soil intrusion.

ADD:

800-1.8 Landscaping Materials

800-1.8.1 Synthetic Turf System.

Complete synthetic turf systems shall consist of a permeable geo synthetic liner per **Section 213-5 "GEOTEXTILES AND GEOGRIDS"**, class II aggregate base **per Section 200-2.9**, insitu porous rubber elastic under layer (herein referred to as PRE-Layer), tufted synthetic monofilament fibers with thatch zone with polyurethane backing, and cool reflect infill layer. Only complete synthetic turf systems shall be considered for equivalents. See Section 801-4.10 for installation.

800-1.8.1.1 Synthetic Turf.

Synthetic turf shall conform to the following specifications:

Product:	Polyturf Greenfield System: Polyturf Royal Deluxe 80 oz with tan thatch, polyurethane backing and 1" porous rubber energy pad underlay (PRE-Layer) or approved equal
Manufacturer:	Polyturf, Inc. or approved equal 1-800-288-0045 www.polyturf.com Email: info@sustainablesurfacing.com
Tolerances:	plus/minus 10 %
Guidelines:	STC Minimum Guidelines criteria and has been tested accordingly by third party testing organization.
Fiber:	Cool Fiber SRI Value 33

Material:	Tufted Polyethylene, single-extruded MONOFILAMENT (without fibrillation, not-cut after extrusion) UV-resistant, color and light resistant.
Color:	Multi Green with Tan thatch
Pile Height:	Approx. 2" (+/- 1/8") inches
Backing:	Primary backing 1: 100 % PP – woven fabric, UV-stabilized Primary backing 2: 100 % PP – stabilizing fabric
Coating:	Polyurethane, antibacterial and antifungal, waterproof
Coating weight:	Approx. 21 oz/sqyd
Length/width of rolls:	According to Polyturf® installation-plan (15' x 100')
Installation-method:	Polyturf Green Seam Glue one-component adhesive 12" Seam Tape
Total height:	Approx. 3" (+/-1/8" inches) (Turf and rubber underlay)
Height of infill:	Approx. 15mm (0.10 inches)
Infill height of sand:	Approx. 15 mm (0.10 inches)
Minimum Standards:	<p>- ASTM D3218: >244microns (monofilament) 157microns thatch</p> <ul style="list-style-type: none"> - ASTM D1577: 11,973 denier - ASTM D1907: 13,143 (Monofilament), - ASTM D1907: 5,731 (Thatch), - Machine Gauge: 1/4" - ASTM D5848: approx 80 oz/ sqyd fiber weight - ASTM D 2859: 8 of 8 passes Meets 16CFR 1630 FF1-70 - ASTM D 5848: 100% PP woven fabric, UV stabilized - ASTM D 5848: total weight approx. 109 oz/sqyd - ASTM D 1335: > 12 lbs Tuft bind (without infill) - ASTM G 154: No Color Change - ASTM D 1876: Peel Adhesion: Will Not Separate - ASTM D2256: Fiber Breaking Strength 22.19 lbs. force (Monofilament), - ASTM D2256: Fiber Breaking Strength 14.21 lbs. force (Thatch), - ASTM D2256: Ave Fiber Elongation 104.lbs. force (Monofilament) - ASTM D2256: Ave Fiber Elongation 47.5 lbs. force (Thatch) - ASTM D1907: Linear Fiber Denier 13,143 (Monofilament), ASTM D1907: Linear Fiber Denier 5,731 (Thatch) - ASTM D792: 0.96 (Monofilament), 0.93 (Thatch) - ASTM F276@210 degree C: 2.25 mg/Kg (Monofilament) - ASTM F276@210 degree C: 0.25 mg/Kg (Thatch) - ASTM D5034: Grab Tear MD- 178.9 lbs /force 51.9% Elongation, - ASTM D5034: Grab Tear CMD- 153.1 lbs /force 31.3 % Elongation,

- ASTM D5034 Grab Tear@5% MD-61 lbs /force 5% Elongation,
- ASTM D5034 Grab Tear @5%CMD- 66 lbs /force 5% Elongation
- ASTM C1028: COF .79 Dry / .49 Wet
- ASTM D7138: 119 degree Celsius
- ASTM G21: Resistance to Fungi- Pass 1
- Cool Plus SRI Value: 0.33 (Cool Reflect Yarn fiber)
- Color fastness: blue scale level 7-8
- Fastness of weathering: grey scale level 5
- Impact Attenuation (max) Gmax 99 at installation (Turf and rubber underlay)
- DIN 18-035: Permeability of Turf Over 1" porous rubber underlay 127 gallons/minute/yd² inches/hour
- ASTM F970 52% Recovery
- Method EPA 3051 : Microwave digestion Procedure Pass
- Arsenic (As): <0.05 ppm
- Barium (Ba): 1,517 ppm
- Cadmium (Cd): <0.05 ppm
- Chromium (Cr): 22.1 ppm
- Lead (Pb): 14.6 ppm
- Selenium (Se): <0.05 ppm
- Silver (Ag): <0.1 ppm
- Method EPA 1312-6010B Extraction Heavy Metals
- Arsenic (As): <0.05 ppm
- Barium (Ba): .19 ppm
- Cadmium (Cd): <0.05 ppm
- Chromium (Cr): .05 ppm
- Lead (Pb): 0.05 ppm
- Selenium (Se): <0.05 ppm
- Silver (Ag): <0.0008 ppm

LEED Credit

Requirements:

This system qualifies for recycled content, heat island effect, when using our Cool Reflect yarn fiber, storm water drainage, innovation in design and when possible regional labor and materials.

YES >Toxicity-heavy metals leaching tests required to meet EPA 1312 standards

YES >Recycled content must exceed 60%

YES >System must meet a 20 year design life

YES > Installation must include a percentage of regional labor

YES > Local and or regional materials within 500 miles

YES > System must be manufactured on site

YES > Solar Reflectance Index Value exceed 30

800-1.8.1.2 PRE-Layer.

PRE-Layer shall be poured on site. No prefabricated systems will be accepted. The porous rubber energy shock pad shall be a shock absorbing cushion layer, consisting of rubber granules and polyurethane binder. The cushion layer shock system shall have demonstrated resistance to rot, mildew, water, freeze-thaw, and compression set associated with normal use.

PRE-Layer shall conform to the following specifications:

Product:	Porous Rubber Elastic Layer
Manufacturer:	Rubberway, Inc. or approved equal 1-800-288-0045 www.rubberway.com
Warranty	10 Year on PRE-Layer system
Advisory:	PRE-Layer shall have not mineral aggregates. Polyurethane shall be TDI and plasticizer free
Tolerances:	plus/minus 10%
Pour Thickness:	1 inch, bound system sample
Granule size:	2-7 mm Black Rubber (50 lb bags)
Binder:	Polyurethane Rubberway Enviro Binder 3000, Aromatic, (5 gallon pails or Drums in specific mixing ratio)
Density:	37 lbs/cu. ft. (min)
PU Binder Content:	15% (min.)
Force Reduction:	>60 %
G-max:	143
Method 6010 B:	Toxic Leaching Procedure Pass
Arsenic (As):	<0.01 mg/Kg
Barium (Ba):	<0.01 mg/Kg
Cadmium (Cd):	<0.01 mg/Kg
Chromium (Cr):	<0.01 mg/Kg
Lead (Pb):	<0.01 mg/Kg
Selenium (Se):	<0.01 mg/Kg
Silver (Ag):	<0.01 mg/Kg
Method:	7471B
Mercury (Hg):	<0.002 mg/Kg
ASTM C67-09	
Freeze/ Thaw:	Change -25 cycles (+) .44%
ASTM F970	
Static Load:	98% Recovery

800-1.8.1.3 Sand Infill Layer.

Cool Reflect infill is a silicon dioxide coated with an acrylic polymer. Round sand particles which are thoroughly infused during the production process with (Zin, ZPT, ZOE), a fungi static agent which inhibits the growth of mildew and algae. Encapsulated in a coating process with an acrylic coated resin which locks in sand particulates capturing all dust, making it a nonhazardous infill.

Sand Infill Layer shall conform to the following specifications:

ASTM F963.8.2 product does not contain hazardous substances

Color: Green

Mesh Size: 16

800-1.8.1.4 Quality Assurance.

Quality Assurance: References of the installation company should be provided showing a minimum of 5 complete systems similar to this project. Offers without the above information will automatically be excluded from this tender.

Acceptable Installer: Turf system shall be installed authorized factory trained technicians.

800-1.8.1.5 Submittals.

Samples: Submit samples of system including turf, e-layer and infill materials.

Maintenance Literature: Submit PDF copy of Flooring Care and Maintenance guide.

800-1.8.1.6 Delivery and Storage.

Delivery of Materials: All materials shall be delivered in manufacturer's container to maintain clean and dry conditions. See manufacturer's guidelines for temperature requirements for the locale of installation.

Storage of Materials: The Trade Contractor shall provide a secure, clean, dry location for storage of materials at temperature as above 55°F. Under no circumstances should materials be stored outside unless fully protected from moisture with 10 mil polyethylene barrier and tarpaulin. All material stored outside shall be inspected by installer for moisture contamination before application.

800-1.8.1.7 Job Conditions.

Schedule of Installation: Turf system must not be applied until other trades are completely finished in the area and surrounding area. Substrate shall be level to the turf manufacturer's specified tolerances, free of any foreign materials and released to the applicator clean and in good condition.

800-1.8.1.8 Guarantee.

Warranty and guarantee per general requirements of **Section 6-8.3 "Warranty"** and the following:

Joint Guarantee: The turf installation shall be jointly guaranteed by the installer and the manufacturer for any defects in materials and workmanship for a period of twelve (12) years from date of acceptance. The guarantee shall not cover damage to the installation caused by conditions beyond the control of the guarantors including, but not limited to, moisture permeation from any source, substrate movement or separation, faulty design or construction, abuse of the surface or failure to abide by the Care and Maintenance literature including application of finishes or protective coatings subsequent to completion of specified work.

Manufacturer's Liability: The Synthetic Turf shall warrant the turf materials to be free from manufacturing defects for a period of twelve (12) years. This warranty is in lieu of all other warranties, expressed or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose, and of any warranty, the liability of manufacture shall be limited to repairing or replacing turf materials and components supplied by manufacture and proven defective in manufacture, and shall not include any other damages, either direct or consequential.

800-2.1.5 Copper Pipe. To the "GREENBOOK", ADD the following:

Type "K" copper pipe shall be used to extend the existing water main at the meter to the new reduced pressure principle backflow assembly.

800-2.2.7 Valve Boxes. To the "WHITEBOOK", ADD the following:

4. Valve boxes shall be sized accordingly to allow wires in pull boxes to be loose and maintain a three inch (3") clearance from the lid.

800-2.2.8 Master Control Valve. To the "WHITEBOOK", ADD the following:

3. Master valve conductors shall be compliant with **Section 800-3.2.2 "Conductors"** shall be installed below grade adjacent to flow sensor data cable conduit.

800-2.2.15 Backflow Preventer Enclosure. To the "WHITEBOOK", ADD the following:

The backflow preventer enclosure shall conform to the following specifications:

Product:	Strong Box - Stainless Steel Smooth Touch Backflow Enclosure
Model#:	SBBC-30SS
Manufacturer:	V.I.T.Products Inc, or approved equal. (760) 735-2450 www.vitproducts.com
Dimensions:	31.5" (L) x 29.5" (H) x 17.75" (W)
Installation:	In strict adherence to manufacturer's recommendations.

Model SBBC-30SS Description

The Backflow cage enclosure shall be of a vandal resistant nature manufactured of formed stainless steel tubing and rod, coated with a performance polymer alloy coating. All locking and mounting hardware shall be manufactured entirely of stainless steel. The frame of the enclosure shall be constructed of 1-1/4" tubing as a minimum, including the drop down door which inserts into the open end of the frame. The top, sides and end panels shall be constructed of rod forming a 1" x 2-1/2" rectangular pattern as a maximum opening. The vertical rods shall be a minimum of 3/16" thick and the horizontal rods shall be a minimum of 1/8". These rods shall be welded together forming grids. These grids shall be welded into the tube frames 1/2" welds not more than 4" apart. The enclosure shall be cleaned and coated with not less than 3 mils power coat.

Each enclosure shall have a mounting pad which shall be used as installation frame. Enclosure hardware on the mounting frame shall be stainless steel. Mounting frame shall be installed using 4 each; 3/8" "L" anchor bolts submerged in concrete a minimum of 2". The backflow cage enclosure shall remain bolted to the frame in open and closed positions. Enclosure and door shall close with concealed locking tab with 7/16" hole to accept padlock.

800-2.4 Sprinkler Equipment. To the "WHITEBOOK", ADD the following:

All materials and equipment used in all irrigation work shall be new and without flaws or defects and of quality and performance as specified, unless otherwise specified on the plans.

Prior to installation of any irrigation work, the Contractor shall submit an irrigation materials submittal for review and approval by the City. The submittal shall include a list of all materials and equipment they propose to use. If the Contractor propose to use materials or equipment other than those listed as approved, they shall submit in writing to the City a request to deviate from the approved list. Samples and product data of the materials or equipment shall accompany the request to assist the evaluation of the proposal.

**ADD
800-4**

**IMPERMEABLE LINER
PVC Geomembrane Liner.**

The geomembrane liner material be single-ply construction made from quality virgin resins and materials and shall consist of polyvinyl chloride (PVC) resin in amounts greater than 50% of the total polymer content suitably compounded with plasticizers, stabilizers, additives, and pigments, to satisfy the physical property requirements meeting ASTM D7176 standard specification for 'PVC geomembranes used in buried applications'. Material shall comply with the following:

Thickness \pm 5%	ASTM D-5199	.030"
Specific Gravity (min)	ASTM D-792	1.20
Tensile (lb/in-width, min)	ASTM D-882	73
Elongation at Break (% min)	ASTM D-882	380
Modulus (lb/in-width, min)	ASTM D-882	30
Tear Resistance (lb/in, min)	ASTM D-1004	8
Resistance to Soil Burial (% change, max)	ASTM G-160	
1. Breaking Factor		5
2. Elongation At Break		20
3. Modulus at 100% Elongation		20
Impact Cold Crack (°C)	ASTM D-1790	-29
Dimensional Stability (% change, max)	ASTM D-1204 (212°F/15 min.)	3
Water Extraction (% max)	ASTM D-1239	0.15
Volatile Loss (% max)	ASTM D-1203(A)	0.70
Hydrostatic Resistance	ASTM D-751(A)	100 (psi, min)
Plasticizer Min Ave Molec Wt	ASTM 2124	400
Factory Fabricated Seams:		
Peel Strength (lbs/in, min)	ASTM D-7408	15
Shear Strength (lbs/in, min)	ASTM D-7408	58.4
Model No.:	'30 mil PVC Geomembrane', or approved equal.	
Manufacturer:	EPI – The Liner Company	

SECTION 801 - INSTALLATION

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

5. All plants outside the limit of work shall be protected in place.
6. Do not operate equipment, which generates fumes or excessive heat, within 20' of the trees to remain. Fumes and heat can damage trees.

7. The grade around existing trees to remain shall remain as existing to avoid disturbance of roots and avoid burying the roots under additional soil.
8. When excavation must be carried out under or near the dripline of a tree identified to be protected in place, the construction of improvements shall minimally damage the root zone by root pruning as outlined in **Section 801-7.3 "Root Pruning for Sidewalk Replacement."** Depth of root pruning shall occur to the depth necessary to construction improvements. Exposed roots of trees shall be covered and shaded by moist burlap or canvas until backfill is placed.
9. Buried utilities and irrigation piping and equipment shall be located out of root zones wherever possible. In cases where utilities must cross root zones, tunnels shall be utilized in lieu of trenches. Tunneling within the rooting area of a tree to remain shall be done under the supervision of the City.
10. Trenching, excavation and soil disturbance within the drip line of vegetation to remain shall not be permitted except as specifically allowed by the City. It is the intent of the plans that the Contractor shall provide an alternate routing of irrigation, electrical and all trenching to avoid cutting through roots of existing vegetation to remain.
11. Upon completion of all work, remove tools, equipment, tree preservation materials and other measures from the site.
12. Repair all areas, structures and surfaces damaged and requiring repair resulting from tree preservation measures. Repair adjacent construction or surfaces soiled or damaged by tree preservation measures.
13. Payment for pruning of existing trees and vegetation to remain shall be included in the lump sum Bid Item for "Construction of Park Improvements" and no additional payment will be made.

801-2.2.1 General. To the "WHITEBOOK", Paragraph 4, DELETE in its entirety and SUBSTITUTE with the following:

4. Topsoil **per Section 800-1.1.1 "General"** shall be provided for all planting areas.

ADD:

801-2.2.1.1 Weed Eradication.

Soil preparation and planting shall not be allowed until all weeds are removed from within the limits of planting areas as indicated on the plans.

The Contractor's labor shall possess demonstrated ability to identify the difference between desirable native species and invasive weeds.

Weed eradication for entire project site. After irrigation installation, but before planting installation, the Contractor shall irrigate the entire project site three (3) to four (4) times over seven (7) to ten (10) days to germinate existing weed seeds. Allow weed seeds to grow until they reach a maximum height of two to three inches (2" - 3"). A post-emergent herbicide shall then be applied **per Section 800-1.2.7 "Herbicides and Pesticides"**. Avoid contact of herbicide with the existing plants to remain.

All herbicides used shall be compatible with use in the vicinity of water and shall be applied in accordance with the label specifications by personnel holding a valid pesticide and herbicide applicator's license. Herbicide use shall be approved by the City prior to application.

Pulled weeds and debris shall be transported and disposed of properly offsite immediately using approved methods to prevent any seed dispersal on the site.

The eradication of exotic plant species is required prior to any planting. All exotic vegetation within the planting areas shall be removed. Herbicide shall be applied to weedy vegetation (e.g., giant reed (*Arundo donax*), tamarisk (*Tamarix* sp.), pampas grass (*Cortaderia jubata*), tree tobacco (*Nicotina glauca*), yellow star-thistle (*Centaurea melitnesis*), cocklebur (*Xanthium* sp.), castor bean (*Ricinus communis*), annual beardgrass, and Bermuda grass (*Cynodon dactylon*), etc.) within the project area. All weedy species should be cleared approximately two weeks following herbicide application.

The City shall inspect the site prior to planting and during revegetation. The planting of hydroseed shall be conducted on a weed free site.

Manual weed eradication shall continue during planting and during the plant establishment period and maintenance period; no herbicides shall be used following the initial weed eradication unless authorized by the City. Weed seedlings and sprouts shall be removed before attaining 12-inches in height and/or before producing seed.

All areas where weed removal creates bare areas in excess of 25 square feet shall be reseeded.

Weed eradication for shrub and groundcover areas (planted from flats). Three (3) to four (4) days after these plants have been installed; the Contractor shall apply the pre-emergent herbicide per manufacturer's specifications and instructions.

801-2.2.2 Fertilizing and Conditioning Procedures. To the "WHITEBOOK", Paragraphs 1 and 2, DELETE in its entirety and SUBSTITUTE the following:

1. The planting area shall be ripped to a depth of 15" prior to bringing the planting area to finish grade. Where necessary to meet grades indicated on the plans, place additional Class A topsoil in planting areas. The planting area shall be brought to finish grade before spreading the soil amendment materials specified.
2. Soil amendments materials shall be uniformly spread at the prescribed rates as recommended in the soil test results outlined in **Section 800-1.1.2 "Class 'A' Topsoil"** or as modified by the Landscape Architect based on the test results review. All hardscape shall be dry at time of application.

The following rates and materials are provided for bidding purposes only, actual rates and materials may vary.

EX.The Contactor shall provide the following rates of soil conditioning and amendment materials.

- A) Soil amendments for all planting areas 3:1 or less in steepness (except hydroseeded areas):
- | | |
|------------------|-------------------------|
| Soil conditioner | 4 cu. Yds/1,000 sq. Ft. |
| Gypsum | 120 lbs/1,000 sq. Ft. |
| Iron sulfate | 10 lbs/1,000 sq. Ft. |
| Soil sulphur | 10 lbs/1,000 sq. Ft. |
- B) After leaching, apply:
- | | |
|---------------------|----------------------|
| 10-10-10 fertilizer | 25 lbs/1,000 sq. Ft. |
|---------------------|----------------------|
- C) Post Planting Fertilizer Type:
- | | |
|-----------------------------|-----------------|
| Trees (per tree) | 1/2 lbs/ 12-4-6 |
| Shrubs, Vines (per 1000 sf) | 6 lbs/ 12-4-6 |
| Groundcover (per 1000 sf) | 6 lbs/ 12-4-6 |

To the "WHITEBOOK", Paragraph 4, ADD the following:

After amending soil as described above, all planting areas shall be sprayed with "Sarvon", or approved equal, at the rate of 6 gallons/acre (or 1 qt./2,000 sq. ft.) immediately prior to Deep Water Leaching.

Deep Water Leaching:

- A) After complete installation and testing of the irrigation system and tilling soil amendments, all on-grade areas shall be deep water leached, compacted and settled by repeated application of irrigation water until the soil has received a minimum of 12" of water, and has been thoroughly moistened to a depth of 24".

- B) After leaching operation, soil samples shall be taken by Contractor at the same locations indicated in the prior soil samples to verify the planting areas conform with agricultural suitability requirements outlined in **Section 800-1.1.2 "Class 'A' Topsoil"**.

To the "WHITEBOOK", Paragraph 6, ADD the following:

Apply fertilizer with acceptable equipment and when plants/ planting areas are in dry condition, apply irrigation immediately after fertilizer application.

ADD the following:

8. Post Planting Fertilizer:

The Contractor shall apply Post-Planting Fertilizer sixty (60) days after planting and once again at the end of the post-construction maintenance period.

801-2.3 Finish Grading. To the "WHITEBOOK", Item 1, ADD the following:

Finish grade shall insure positive drainage from the site. Surface drainage shall be away from all building foundations. The City shall approve the final grades and elevations before planting operations may begin.

ADD

801-2.4 Measurement and Payment.

The payment for the Topsoil shall be included in the lump sum Bid Item for "Construction of Park Improvements". This shall include full compensation for furnishing all material, delivery, placement, fees, labor, equipment, water, tools and incidentals required to complete the work specified. No additional compensation will be made therefore.

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

7. The Contractor shall be responsible for managing the site and performing planting, maintenance and corrective measures to the best advantage of the plant material to promote healthy growth, establishment and success of the plantings. This shall include providing for drainage, irrigation, repair of damaged features, correction of deleterious conditions, maintaining a proper soil moisture level, weeding, fertilization, protection, temporary measures to promote establishment and other reasonable maintenance and construction efforts needed to provide for the successful establishment of the plant materials during the entire contract period.

The Contractor shall not install planting as shown in the plans when it is obvious in the field that conditions exist which are detrimental to plant survival and growth. Such conditions shall be brought to the attention of the City. The successful establishment of the plantings during the entire contract period is the Contractor's responsibility.

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 City. No planting shall be done in any areas 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 City and his decision shall be final. The Contractor shall obtain approval from the City 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. No more plants shall be distributed in the planting area on any day than can be planted and watered on that day. All plants shall be planted and watered as herein specified immediately after the removal of the containers. Containers shall not be cut prior to placing the plants in the planting area.

8. Percolation Test: Prior to installing landscaping, Contractor shall perform percolation tests in representative areas of the site selected and approved by the City to verify acceptable amended soils drainage for planting areas.

Contractor shall provide a minimum of four percolation tests.

Percolation Tests shall be performed as follows:

- a) Dig a pit 2'x 2' x 2' deep. Contractor shall employ a system of measurement to track infiltration rates in the units of inches per hour, such as a marked stake at the center of the pit. Contractor shall clearly mark planting pit and provide a safety barrier or cover for safety.
- b) Pits shall be filled with 18" of water and allowed to completely drain.
- c) Pits shall then be filled with 12" of water and allowed to drain. The second fill must drain at a minimum rate of 0.5 inches per hour, for four hours.

The contractor shall be responsible for tracking infiltration rates with means necessary to report accurate infiltration rate in the specified units per pit.

- d) Report to the City the length of time that the water takes to completely drain from each pit and the observed infiltration rate.

If water does not drain at the minimum desired infiltration rate, the City will confer with the Landscape Architect to make a determination whether additional drainage measures will be required, especially at tree plantings.

No plants shall be installed until percolation tests have been observed by the City and a determination made that no further drainage measures are required.

Planting shall not be performed if plant pits contain standing water, or if pits are over saturated to a condition which may result in an unhealthful condition for the plant. It is the Contractor's responsibility to provide a suitable growing condition for the plant material and to maintain that condition throughout the entire contract period.

9. Upon arrival at the construction site, the City's Landscape Inspector will inspect the plants for any damage that may have occurred in transit. Plants that have been damaged in transit may be rejected at no cost to the City in accordance with **Section 800-1.4.1 "General"**.

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

2. The Contractor's on-site plant storage area shall be approved by the City prior to the delivery of any plant materials.
3. All plants to remain on-site shall be watered as necessary during the entire construction contract to provide for plant health and survival. Watering shall be done under the direction of the City.

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

All 15 gallon, 24" box and 36" box size trees shall be double staked. Trees over 36" box shall utilize three (3) evenly spaced stakes installed to the same methods outlined in City of San Diego Standard **Detail SDL-101**. Refer to **Section 800-1.5 "Headers, Stakes, and Ties"** of these Special Provisions for approved staking materials.

Installed tree ties exhibiting inadequate length and/or tree support as determined by the City will not be accepted.

Payment for tree staking shall be included in the Contract Price paid for trees and no separate payment will be allowed therefore.

ADD:

801-4.10 Landscaping Material Installation.

801-4.10.1 Synthetic Turf Installation.

801-4.10.1.1 Base Installation.

Related Work Specified Elsewhere:

Approved contractor shall supply and install a geotextile fabric (Marifi 140 N or approved equal) over the entire compacted sub-grade surface, before the installation of the stone, depending on geographic location. Geotextile seams shall be overlapped and geotextile secured.

Installation of the 2" x 4" recycled plastic nailer board shall be installed at interior perimeter edge per detail.

Installation of properly draining crushed stone and fines substrate consisting of a minimum thickness of 2" depth. Following rough grading of the sub grade, the exposed soil shall be moisture conditioned to near the optimum moisture content and compacted to at least 90 percent relative compaction (modified proctor) to produce a firm non-yielding surface. Consult turf manufacturer's guidelines for specific information.

Preparation and installation of substrate to provide a smooth, level surface with level tolerance of $\pm 1/8"$ in any 10" radius. The sub-base will have a slope of .5% from the center. The depth of the aggregate will increase at the edges of the field as determined by the sub-base slope, as the elevations are maintained throughout.

801-4.10.1.2 Inspection.

Substrate: Turf installer shall inspect substrate for contamination, dryness and tolerances and report any discrepancies to the General Contractor in writing.

All work required to put the substrate in acceptable condition shall be the responsibility of the General Contractor. Installer shall perform tests for moisture and adhesion prior to application and report adverse conditions to the General Contractor in writing.

801-4.10.1.3 Synthetic Turf Installation.

Installation: All work shall be performed by manufacturer's technicians and comply with the manufacturer's guidelines for the complete placement and installation of the PRE-Layer, synthetic turf and cool reflect infill.

Safety: No smoking, open flames or sparks from electrical equipment shall be permitted during the application of materials.

Clean Up Jobsite: Upon completion of installation, installer shall remove all unused materials, tools, equipment and rubbish. Dispose of empty containers in accordance with federal and local guidelines.

801-4.10.1.3 Protection and Maintenance.

Other Trades: It shall be the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by City.

Maintenance: See manufacture maintenance handbook

ADD:**801-4.11****Mulch.**

Install a 3" minimum depth layer of bark mulch in all tree, shrub, and groundcover planting areas unless otherwise indicated on the plans. Mulch shall be installed with a uniform depth. Taper the mulch to within 3" clear of the trunk of the plant. Mulch shall not be installed in planting areas designated as turf, synthetic turf, decomposed granite, cobble, and/ or rock mulch.

Bark Mulch shall be measured by the square foot. The contract unit price paid for mulch shall be included in the lump sum Bid Item for "Construction of Park Improvements" project cost and shall include full compensation for furnishing all labor, materials, tools, equipment, all incidentals necessary to provide a complete installation, and for doing all the work involved in supplying and installing bark mulch, complete-in-place, as shown on the plans, as specified in these Special Provisions and as directed by the City.

801-4.12**Impermeable Liner Installation.**

1. The number of panels to be deployed in any day will be limited to the number of panels which can be seamed that day. The geomembrane will be placed over the prepared surface in such a manner as to assure minimum handling.
2. Based on the approved geomembrane vertical panel installation diagram and material certifications, the individual panels will be numbered and seams will be identified by using the panel numbers that create the seam. The PVC panels shall be installed in a manner that minimizes seams.
3. During installation, and any other period of exposure of geomembrane, pedestrian and equipment activity over the geomembrane shall be kept to a minimum, and restricted to only that which is necessary for geomembrane construction.
4. Smoking is not permitted on the geomembrane.
5. Construction workers shall take precautions not to damage the geomembrane surface. Construction workers shall wear smooth-soled footwear, and exercise care not to drag tools across the geomembrane surface. All large tools are to have smooth base plates or shoes. Construction staff shall be informed of the restricted access to areas of geomembrane placement by use of barriers and signs posted as necessary.
6. The Contractor shall perform all activities of geomembrane construction in such a way as to avoid damage to the geomembrane. Any damage caused to the geomembrane by the Contractor shall be repaired or the material replaced at the expense of the Contractor.

7. No tracked or wheeled vehicles shall be permitted on the geomembrane prior to placement of adequate soil cover, as determined by the City.
8. The Contractor shall complete his work in a manner that will prevent water from getting under the partially installed geomembrane. This could include, but is not limited to, installing sandbags along the leading edges. Should excessive moisture become trapped below the geomembrane.
9. Seams shall be welded throughout the entire length of the panels during initial panel seaming.
10. Sandbags or other approved ballast shall be used to prevent bridging or material movement in areas such as toe of slope or near sumps. Ballast shall not be used to force the geomembrane into contact with the subgrade.
11. Special care shall be taken to prevent tensile stress in the geomembrane and geomembrane seams in all corners and grade changes.
12. The Contractor shall exercise his best judgment and care to provide sufficient slack in the geomembrane.
13. The geomembrane shall not be installed when ambient or sheet temperatures are below 40° F, when the sheet temperature exceeds 140° F, or when the air temperature is above 120° F unless the Contractor demonstrates, to the satisfaction of the City, that procedures can be implemented which will result in the proper installation and seaming of the geomembrane.
14. Adjacent geomembrane panels shall be allowed to reach essentially equivalent temperatures prior to seaming to avoid development of fishmouths.
15. If fishmouths are created at the seam overlaps, they shall be cut to achieve a flat overlap.
16. Geomembrane covering operations shall be performed in a manner that does not damage the geomembrane lining system. Geomembrane covering operations shall be performed only in the presence of a Construction Observer such that the condition and cleanliness of the geomembrane is observed at the time the material is covered, and any effects of the covering operation on the geomembrane lining system can be observed.

801-4.12.1 Seaming Methods.

1. A six - inch wide overlap must be cleaned of all dust, dirt or foreign debris no more than 30 minutes prior to welding. Only clean, soft rags will be used for cleaning. If mud has adhered to the sheet surface overlap area, it will be removed with clean water and allowed to dry prior to seaming.

2. During the cleaning operation, the sheet will be inspected for defective areas which must be removed and/or repaired prior to seaming. The seaming operation requires a solid, smooth subsurface. Subsurface voids, hard nodules, rocks, soft areas or unsuitable conditions will be removed or repaired prior to seaming during subgrade preparation.
3. Seaming cannot be conducted in the presence of standing water. Wet surfaces must be allowed to dry. A slip sheet or seaming board may be used to lift the geomembrane above damp surfaces. If wind conditions contaminate the seaming area or displace the geomembrane sheets, temporary ballast and additional cleaning procedures will be required.
4. The geomembrane panels shall be joined by Chemical Fusion Welding. All field-fuse welded seams will be a minimum of 6 inches wide. A sufficient amount of chemical fusion agent will be applied that, upon compressing the seam surfaces together, a thin excess of chemical fusion agent will be forced out. A high durometer rubber, nylon or steel roller will be used to compress the seam surfaces together until a bond is formed. Roller action will be at a parallel direction to the seam's edge so that excessive amounts of chemical fusion agent will be purged from between the sheets. Trapped chemicals should be rolled out of the seaming area. Care will be exerted in applying the chemical fusion agent. A continuous wet layer of chemical fusion agent is necessary to prevent a leak at the tie - in point between the last chemical fusion agent application and the next. If the chemical fusion agent, which is initially shiny when applied, takes on a dull filmy appearance, the interfaces may require faster closing together or the ambient temperature is too high to continue seaming. The installer will monitor this condition at sheet temperatures over 105°F. At the completion of seaming, all rags, chemical containers, etc., will be properly removed from the geomembrane.

801-4.12.2 Repairs.

1. All geomembrane panels and seams shall be examined by the City for defects, holes, blisters, undispersed raw materials, and any sign of contamination by foreign matter. The geomembrane surface shall be clean at the time of examination. Each suspect location shall be repaired and all repairs shall be non-destructively tested.
2. Damaged geomembrane shall be removed and replaced with acceptable geomembrane if damage cannot be repaired to the satisfaction of the City.
3. Any portion of the geomembrane, or any portion of a seam exhibiting a flaw or failing a destructive or non-destructive test, shall be repaired as follows: 1. Geomembrane patches shall be used for holes, tears, and contamination by foreign matter. Patches shall be constructed of the same geomembrane, and will be joined to the panel using adhesive or chemical fusion welding where possible.

4. Geomembrane patches or caps shall extend at least 6 inches beyond the edge of the defect or failed seam area. All corners of the patch shall be rounded.
5. Geomembrane caps shall be used to repair failed seams that are left in-place. Seams that fail destructive or non-destructive testing may also be removed and replaced if determined necessary by the City.

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

Contractor shall check and verify the water pressure at point of connection (POC) prior to beginning of work. Notify City of any discrepancy between pressure indicated on plans and actual water pressure.

Contractor shall check and verify all site conditions, utilities, and services prior to trenching. Verify point of connection location prior to beginning of work.

Plans are diagrammatic and approximate. All piping, valve boxes, backflow preventers, etc., shall be located in planting areas if possible. No irrigation equipment except pipe crossings and electrical crossings shall be located in or under sidewalks and streets except where street crossings or trench rerouting is required to protect existing trees.

All irrigation equipment shall be installed, flushed out, pressure tested, and the coverage test approved prior to plant installation.

801-5.3.1 General. To the "GREENBOOK", ADD the following:

Trenches through paved areas shall be resurfaced in accordance with **Section 306-13 "Trench Resurfacing"**.

Concrete thrust blocks, minimum 1 cu. ft. with sufficient bearing area to resist the thrust of water, shall be constructed against undisturbed earth at all changes of direction exceeding 45 degrees for pressure mainline pipe larger than 2", thrust blocks shall be installed at gate valves, tees, elbows, crosses, and ends of pipe runs; or wherever the City deems one to be necessary. Thrust blocks are to be installed as per Standard Drawings **SDW-151**, sized for 4" pipe.

Contractor shall install sleeves where any waterline or controller wire passes under paving. Sleeves shall extend 12" beyond each side of the improvement. The letter "E" for electrical or the letter "W" for water shall be stamped or chiseled on the improvement directly above the sleeve. The sleeves shall be a minimum 18" deep for electrical and the sleeves 21" below grade for water. Sleeves for water mainlines within vehicular paving shall be placed at 36" depth. Sleeves shall be Schedule 40 PVC, typical. The diameter of the sleeve shall be two (2) pipe sizes larger than the diameter of waterline within.

All pressure pipe shall have a continuous blue colored trench marker metallic tape placed nine inches (9") below finished grade directly above the buried pipe. (See **Section 800-3.2.2.3 "Trench Marker Tape"** for material.)

Avoid installing pipe through proposed tree locations to avoid conflict with root ball.

801-5.4 Installation of Valves, Valve Boxes, and Special Equipment. To the "WHITEBOOK", paragraph 6, ADD the following:

The Contractor shall rework the locking toggles of the concrete valve boxes by replacing the existing clevis pin and sheet metal clip with a cadmium-plated machine bolt and self-locking nut. Apply oil to lubricate and to prevent rust. The Contractor shall paint the identification number of the valve and the controller clock on the cover of the valve box. Valve boxes shall be sized accordingly to allow wires in pull boxes to be loose and maintain a three inch (3") clearance from the lid. All wires in pull boxes shall be loose and shall not come within three inches 75 mm (3 inches) from lid. Boxes shall be sized accordingly to accommodate this requirement.

To paragraph 7, ADD the following:

Backflow preventers shall be installed as specified on the contract documents.

801-5.5.1 General. To the "WHITEBOOK", ADD the following:

Plans are diagrammatic and approximate. Precise location of heads / bubblers shall be field adjusted to meet minor variations in the plan.

801-5.7.1 General. To the "GREENBOOK", ADD the following:

Flush all pipes clean prior to installing sprinkler heads. Do not allow water from irrigation flushing to enter plant pits where water would result in over-saturation of soil creating an unhealthful condition for plant materials.

801-5.7.2.1 General. To the "WHITEBOOK", ADD the following:

Mains larger than 2 inches, asbestos cement mains, mains employing socket and spigot gasket joints shall be tested in accordance with **Section 306-8 "Prefabricated Pressure Pipe"**. If leaks develop, repair leaking portions and repeat test until entire system is proven watertight. Test shall be observed and approved by City prior to backfilling trenches.

801-5.7.3 Sprinkler Coverage Test. To the "WHITEBOOK", ADD the following:

When system is complete, and prior to planting, the Contractor shall perform a coverage test in the presence of the City and Landscape Architect.

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
MITIGATED NEGATIVE DECLARATION



MITIGATED NEGATIVE DECLARATION

THE CITY OF SAN DIEGO

Project No. 495774/495796
SCH No. 2016111028

SUBJECT: HORTON ELEMENTARY JOINT USE/GUYMON STREET PARK/HALLMARK WAY REVERSION TO ACREAGE: A Site Development Permit for development on Environmentally Sensitive Lands and a Reversion of Acreage for the vacation of the existing unimproved Hallmark Way public right-of-way to allow construction of a proposed public pocket park. The project site is located on the north side of Guymon Street between 49th Street to the west and the existing Horton Elementary School site at 5050 Guymon Street to the east. The proposed project consists of development of a 0.86-acre public pocket park including children's play area, shade structures, barbeques, benches, exercise equipment, synthetic turf, restrooms, a drinking fountain, and security lighting on the southwestern portion of the project site. The project would also include construction of 1.6-acre of a 3.5 acre facility for joint use by Horton Elementary School and the City of San Diego, consisting of a natural turf field with six-foot wide decomposed granite walking track on its perimeter, on the northeastern portion of the project site adjacent to Horton Elementary School. The project site is located within the Encanto Neighborhoods Community Plan Area and City Council District 4. **The project site is not included on any Government Code listing of hazardous waste sites.**

UPDATE: The Mitigated Negative Declaration (MND) and Initial Study have been revised to address Tribal Cultural Resources as required under AB-52 for the project; however, these revisions are clarifications and amplifications to the analysis and conclusions of the draft MND. The physical scope of the project, project environmental impacts, proposed mitigation measures, and conclusions of the draft Mitigated Negative Declaration are not affected by the revisions. Therefore, recirculation of the draft MND is not required pursuant to Section 15073.5 of CEQA Guidelines. Double underline has been used to denote additions to the MND and Initial Study and strikethrough has been used to denote deletions from the MND and initial study.

- I. PROJECT DESCRIPTION: See attached Initial Study.
- II. ENVIRONMENTAL SETTING: See attached Initial Study.
- III. DETERMINATION:

The City of San Diego conducted an Initial Study which determined that the proposed project could have a significant environmental effect in the following area(s): **Biological Resources**. Subsequent revisions in the project proposal create the specific mitigation identified in Section V of this Mitigated Negative Declaration. The project as revised now avoids or mitigates the potentially significant environmental effects previously identified, and the preparation of an Environmental Impact Report will not be required.

IV. DOCUMENTATION: The attached Initial Study documents the reasons to support the above Determination.

V. MITIGATION, MONITORING AND REPORTING PROGRAM:

A. GENERAL REQUIREMENTS – PART I
Plan Check Phase (prior to permit issuance)

1. Prior to the issuance of a Notice To Proceed (NTP) for a subdivision, or any construction permits, such as Demolition, Grading or Building, or beginning any construction related activity on-site, the Development Services Department (DSD) Director's Environmental Designee (ED) shall review and approve all Construction Documents (CD), (plans, specification, details, etc.) to ensure the MMRP requirements are incorporated into the design.

2. In addition, the ED shall verify that the MMRP Conditions/Notes that apply ONLY to the construction phases of this project are included VERBATIM, under the heading, **"ENVIRONMENTAL/MITIGATION REQUIREMENTS."**

3. These notes must be shown within the first three (3) sheets of the construction documents in the format specified for engineering construction document templates as shown on the City website:

<http://www.sandiego.gov/development-services/industry/standtemp.shtml>

4. The **TITLE INDEX SHEET** must also show on which pages the "Environmental/Mitigation Requirements" notes are provided.

5. **SURETY AND COST RECOVERY** – The Development Services Director or City Manager may require appropriate surety instruments or bonds from private Permit Holders to ensure the long term performance or implementation of required mitigation measures or programs. The City is authorized to recover its cost to offset the salary, overhead, and expenses for City personnel and programs to monitor qualifying projects.

B. GENERAL REQUIREMENTS – PART II
Post Plan Check (After permit issuance/Prior to start of construction)

1. PRE CONSTRUCTION MEETING IS REQUIRED TEN (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT. The PERMIT HOLDER/OWNER is responsible to arrange and perform this meeting by contacting the CITY RESIDENT ENGINEER (RE) of the Field Engineering Division and City staff from MITIGATION MONITORING COORDINATION (MMC). Attendees must also include the Permit holder's Representative(s), Job Site Superintendent and the following consultants:

Qualified Biologist

Note:

Failure of all responsible Permit Holder's representatives and consultants to attend shall require an additional meeting with all parties present.

CONTACT INFORMATION:

- a) The PRIMARY POINT OF CONTACT is the **RE** at the **Field Engineering Division – 858-627-3200**
- b) For Clarification of ENVIRONMENTAL REQUIREMENTS, it is also required to call **RE and MMC at 858-627-3360**

2. MMRP COMPLIANCE: This Project, Project Tracking System (PTS) #495774/495796 and /or Environmental Document # 495774/495796, shall conform to the mitigation requirements contained in the associated Environmental Document and implemented to the satisfaction of the DSD's Environmental Designee (MMC) and the City Engineer (RE). The requirements may not be reduced or changed but may be annotated (i.e. to explain when and how compliance is being met and location of verifying proof, etc.). Additional clarifying information may also be added to other relevant plan sheets and/or specifications as appropriate (i.e., specific locations, times of monitoring, methodology, etc

Note:

Permit Holder's Representatives must alert RE and MMC if there are any discrepancies in the plans or notes, or any changes due to field conditions. All conflicts must be approved by RE and MMC BEFORE the work is performed.

3. OTHER AGENCY REQUIREMENTS: Evidence of compliance with all other agency requirements or permits shall be submitted to the RE and MMC for review and acceptance prior to the beginning of work or within one week of the Permit Holder obtaining documentation of those permits or requirements. Evidence shall include copies of permits, letters of resolution or other documentation issued by the responsible agency.

Not Applicable

4. MONITORING EXHIBITS

All consultants are required to submit , to RE and MMC, a monitoring exhibit on a 11x17 reduction of the appropriate construction plan, such as site plan, grading, landscape, etc., marked to clearly show the specific areas including the **LIMIT OF WORK**, scope of that discipline's work, and notes indicating when in the construction schedule that work will be performed. When necessary for clarification, a detailed methodology of how the work will be performed shall be included.

NOTE:

Surety and Cost Recovery – When deemed necessary by the Development Services Director or City Manager, additional surety instruments or bonds from the private Permit Holder may be required to ensure the long term performance or implementation of required mitigation measures or programs. The City is authorized to recover its cost to offset the salary, overhead, and expenses for City personnel and programs to monitor qualifying projects.

5. OTHER SUBMITTALS AND INSPECTIONS:

The Permit Holder/Owner's representative shall submit all required documentation, verification letters, and requests for all associated inspections to the RE and MMC for approval per the following schedule:

<i>Issue Area</i>	<i>Document submittal</i>	<i>Assoc Inspection/Apv l</i>	<i>Notes</i>
Pre Con Meeting	Request letter	MMC approval	3 days prior to pre con

Biology	Consult. Qualif. Letter Bio. Monit. Exhibit Protocol or other Survey	MMC approval	3 days prior to pre con
Biology	Limit of Work Ver. Let	MMC inspection	Prior to starting work
Final approval	Request for Final	Final inspection	1 week after request
Bond Release	Request letter	LEMA verification	2 week minimum LEMA

B. SPECIFIC MMRP ISSUE AREA CONDITIONS/REQUIREMENTS

BIOLOGICAL RESOURCES

I. BIOLOGICAL RESOURCE PROTECTION DURING CONSTRUCTION

I. Prior to Construction

- A. **Compensatory Mitigation** - The project applicant shall provide payment into the City of San Diego Habitat Acquisition Fund (HAF) for impact to 0.1-acre of Tier II Diegan Coastal Sage Scrub Habitat. If mitigation occurs within the MHPA it shall be at a ratio of 1:1. If mitigation occurs outside the MHPA it shall be at a ratio of 1.5:1.
- B. **Biologist Verification** - The owner/permittee shall provide a letter to the City's Mitigation Monitoring Coordination (MMC) section stating that a Project Biologist (Qualified Biologist) as defined in the City of San Diego's Biological Guidelines (2012), has been retained to implement the project's biological monitoring program. The letter shall include the names and contact information of all persons involved in the biological monitoring of the project.
- C. **Preconstruction Meeting** - The Qualified Biologist shall attend the preconstruction meeting, discuss the project's biological monitoring program, and arrange to perform any follow up mitigation measures and reporting including site-specific monitoring, restoration or revegetation, and additional fauna/flora surveys/salvage.
- D. **Biological Documents** - The Qualified Biologist shall submit all required documentation to MMC verifying that any special mitigation reports including but not limited to, maps, plans, surveys, survey timelines, or buffers are completed or scheduled per City Biology Guidelines, Multiple Species Conservation Program (MSCP), Environmentally Sensitive Lands Ordinance (ESL), project permit conditions; California Environmental Quality Act (CEQA); endangered species acts (ESAs); and/or other local, state or federal requirements.
- E. **BCME** - The Qualified Biologist shall present a Biological Construction Mitigation/Monitoring Exhibit (BCME) which includes the biological documents in C above. In addition, include: restoration/revegetation plans, plant salvage/relocation requirements (e.g., coastal cactus wren plant salvage, burrowing owl exclusions, etc.), avian or other wildlife surveys/survey schedules (including general avian nesting and USFWS protocol), timing of surveys, wetland buffers, avian construction avoidance areas/noise buffers/ barriers, other impact avoidance areas, and any subsequent requirements determined by the Qualified Biologist and the City ADD/MMC. The BCME shall include a site plan, written and graphic depiction of the project's biological mitigation/monitoring program, and a schedule. The BCME shall be approved by MMC and referenced in the construction documents.

- F. **Resource Delineation** - Prior to construction activities, the Qualified Biologist shall supervise the placement of orange construction fencing or equivalent along the limits of disturbance adjacent to sensitive biological habitats and verify compliance with any other project conditions as shown on the BCME. This phase shall include flagging plant specimens and delimiting buffers to protect sensitive biological resources (e.g., habitats/flora & fauna species, including nesting birds) during construction. Appropriate steps/care should be taken to minimize attraction of nest predators to the site.
- G. **Education** - Prior to commencement of construction activities, the Qualified Biologist shall meet with the owner/permittee or designee and the construction crew and conduct an on-site educational session regarding the need to avoid impacts outside of the approved construction area and to protect sensitive flora and fauna (e.g., explain the avian and wetland buffers, flag system for removal of invasive species or retention of sensitive plants, and clarify acceptable access routes/methods and staging areas, etc.).

II. During Construction

- A. **Monitoring**- All construction (including access/staging areas) shall be restricted to areas previously identified, proposed for development/staging, or previously disturbed as shown on "Exhibit A" and/or the BCME. The Qualified Biologist shall monitor construction activities as needed to ensure that construction activities do not encroach into biologically sensitive areas, or cause other similar damage, and that the work plan has been amended to accommodate any sensitive species located during the pre-construction surveys. In addition, the Qualified Biologist shall document field activity via the Consultant Site Visit Record (CSVSR). The CSVSR shall be e-mailed to MMC on the 1st day of monitoring, the 1st week of each month, the last day of monitoring, and immediately in the case of any undocumented condition or discovery.
- B. **Subsequent Resource Identification** - The Qualified Biologist shall note/act to prevent any new disturbances to habitat, flora, and/or fauna onsite (e.g., flag plant specimens for avoidance during access, etc). If active nests or other previously unknown sensitive resources are detected, all project activities that directly impact the resource shall be delayed until species specific local, state or federal regulations have been determined and applied by the Qualified Biologist.

III. Post Construction Measures

- A. In the event that impacts exceed previously allowed amounts, additional impacts shall be mitigated in accordance with City Biology Guidelines, ESL and MSCP, State CEQA, and other applicable local, state and federal law. The Qualified Biologist shall submit a final BCME/report to the satisfaction of the City ADD/MMC within 30 days of construction completion.

VI. PUBLIC REVIEW DISTRIBUTION:

Draft copies or notice of this Mitigated Negative Declaration were distributed to:

City of San Diego
Councilmember Cole - District 4
Mayor's Office
City Attorney's Office (MS 59)
Development Services (501)
Mark Brunette, EAS
Peter Kann, Project Management
Planning - Park and Recreation
Jeff Harkness
Facilities Financing, Tom Tomlinson (93B)
Water Review, Medhi Rastakhiz (86A)
Library Dept. – Government Documents (81)
San Diego Central Library (81A)
Malcolm X Branch Library (81O)

San Diego Unified School District
Paul Garcia, Facilities Development CEQA Coordinator

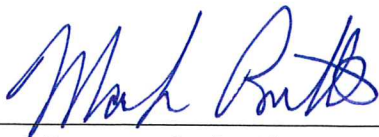
Biology
US Fish & Wildlife Service (23)
California Dept. of Fish & Wildlife (32)
Sierra Club (165)
San Diego Audubon Society (167)
Mr. Jim Peugh (167A)
California Native Plant Society (170)
Endangered Habitats League (182A)

Others
Encanto Neighborhoods Community Planning Group (449A)

VII. RESULTS OF PUBLIC REVIEW:

- () No comments were received during the public input period.
- () Comments were received but did not address the accuracy or completeness of the draft environmental document. No response is necessary and the letters are incorporated herein.
- (X) Comments addressing the accuracy or completeness of the draft environmental document were received during the public input period. The letters and responses are incorporated herein.

Copies of the draft Mitigated Negative Declaration, the Mitigation, Monitoring and Reporting Program and any Initial Study material are available in the office of the Entitlements Division for review, or for purchase at the cost of reproduction.



Mark Brunette, Senior Planner
Development Services Department

November 9, 2016

Date of Draft Report

December 16, 2016

Date of Final Report

Analyst: Mark Brunette

Attachments: Horton Joint Use Vicinity Map
Horton Joint Use Site Plan
Guymon Street Pocket Park Vicinity Map
Guymon Street Pocket Park Site Plan
Initial Study Checklist



December 9, 2016

Mark Brunette
City of San Diego Development Services Center
1222 First Avenue, MS 501
San Diego, CA 92101

Subject: Horton Elementary Joint Use/Guymon Street Park/Hallmark Way Reversion to Acreage. Project No.:495774/495796

Dear Mr. Brunette,

The San Diego Unified School District (District), Facilities Planning and Construction Division, has received the draft Mitigated Negative Declaration (MND) Report for the subject project, dated November 9, 2016. The project is located on the north side of Guymon Street between 49th Street to the west and on the Districts Horton Elementary School Site at 5050 Guymon Street to the east. We thank you for the opportunity to review the MND and have no comments at this time. If you have any questions please contact me at 858-637-6290.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul Garcia".

Paul Garcia
Facilities Development CEQA Coordinator

SENT VIA EMAIL. NO HARD COPY TO FOLLOW

SAN DIEGO UNIFIED SCHOOL DISTRICT
FACILITIES PLANNING & CONSTRUCTION
4860 Ruffner Street, Annex Room 5
San Diego, CA 92111

**HORTON ELEMENTARY JOINT USE/GUYMON STREET PARK/HALLMARK WAY REVERSION
TO ACREAGE MND – RESPONSES TO COMMENTS**

San Diego Unified School District Letter

Comment noted. No response required.



November 30, 2016

Mark Burnette
City of San Diego
1222 1st Avenue (MS 501)
San Diego, CA 92101

sent via e-mail:
mburnette@sandiego.gov
DSDEAS@sandiego.gov

Re: SCH# 2016111028, Horton Elementary School Joint Use/ Guymon Pocket Park/ Hallmark Way Reversion to Acreage (PTS No. 495774 & 495796) Project, City of Encino; San Diego County, California

Dear Mr. Burnette:

The Native American Heritage Commission (NAHC) has reviewed the Mitigated Negative Declaration prepared for the project referenced above. The review included the Project Description/Introduction, the Initial Study Checklist and Section V, Cultural Resources prepared by HELIX Environmental Planning for the City of San Diego. We have the following concerns:

- 1 [
- There is no Tribal Cultural Resources section or subsection as per California Natural Resources Agency (2016) "Final Text for tribal cultural resources update to Appendix G: Environmental Checklist Form," <http://resources.ca.gov/ceqa/docs/ab52/Clean-final-AB-52-App-G-text-Submitted.pdf>
- 2 [
- There are no mitigation measures specifically addressing Tribal Cultural Resources separately. Mitigation measures must take Tribal Cultural Resources into consideration as required under AB-52, with or without consultation occurring.

The California Environmental Quality Act (CEQA)¹, specifically Public Resources Code section 21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment.² If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an environmental impact report (EIR) shall be prepared.³ In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources with the area of project effect (APE).

CEQA was amended in 2014 by Assembly Bill 52. (AB 52).⁴ **AB 52 applies to any project for which a notice of preparation or a notice of negative declaration or mitigated negative declaration is filed on or after July 1, 2015.** AB 52 created a separate category for "tribal cultural resources", that now includes "a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment."⁵ Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.⁷ Your project may also be subject to **Senate Bill 18 (SB 18)** (Burton, Chapter 905, Statutes of 2004), Government Code 65352.3, if it also involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space. **Both SB 18 and AB 52 have tribal consultation requirements.** Additionally, if your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966⁸ may also apply.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

Agencies should be aware that AB 52 does not preclude agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52. For that reason, we urge you to continue to request Native American Tribal Consultation Lists and Sacred Lands File searches from the NAHC. The request

¹ Pub. Resources Code § 21000 et seq.

² Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15084.5 (b); CEQA Guidelines Section 15084.5 (b)

³ Pub. Resources Code § 21080 (d); Cal. Code Regs., tit. 14, § 15084 subd.(a)(1); CEQA Guidelines § 15084 (a)(1)

⁴ Government Code 65352.3

⁵ Pub. Resources Code § 21074

⁶ Pub. Resources Code § 21084.2

⁷ Pub. Resources Code § 21084.3 (n)

⁸ 154 U.S.C. 300101, 36 C.F.R. § 800 et seq.

HORTON ELEMENTARY JOINT USE/GUYMON STREET PARK/HALLMARK WAY REVERSION TO ACREAGE MND – RESPONSES TO COMMENTS

Native American Heritage Commission Letter

Response:

1 and 2.

The tribal cultural resources section has been added to the Initial Study Checklist per AB-52. No tribal consultation was requested for this project because the California Native American tribes, traditionally and culturally affiliated with the project area, determined that there are no tribal cultural resources in the project area. Consequently, no mitigation for impacts to tribal cultural resources is required.

forms can be found online at: <http://nahc.ca.gov/resources/forms/>. Additional information regarding AB 52 can be found online at http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf, entitled "Tribal Consultation Under AB 52: Requirements and Best Practices".

The NAHC recommends lead agencies consult with all California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources.

A brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments is also attached.

Please contact me at gayle.totton@nahc.ca.gov or call (916) 373-3710 if you have any questions.

Sincerely,


Gayle Totton, B.S., M.A., Ph.D
Associate Governmental Project Analyst

Attachment

cc: State Clearinghouse

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Pertinent Statutory Information:

Under AB 52:

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a **lead agency** shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice.

A **lead agency** shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project,⁹ and prior to the release of a **negative declaration, mitigated negative declaration or environmental impact report**. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code § 65352.4 (SB 18)."¹⁰

The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- a. Alternatives to the project.
 - b. Recommended mitigation measures.
 - c. Significant effects.¹¹
1. The following topics are discretionary topics of consultation:
- a. Type of environmental review necessary.
 - b. Significance of the tribal cultural resources.
 - c. Significance of the project's impacts on tribal cultural resources.

If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency.¹²

With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code sections 6254 (r) and 6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public.¹³

If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
- b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code section 21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource.¹⁴

Consultation with a tribe shall be considered concluded when either of the following occurs:

- a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
- b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached.¹⁵

Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code section 21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code section 21082.3, subdivision (b), paragraph 2, and shall be fully enforceable.¹⁶

If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code section 21084.3 (b).¹⁷

An environmental impact report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

- a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code sections 21080.3.1 and 21080.3.2 and concluded pursuant to Public Resources Code section 21080.3.2.
- b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

⁹ Pub. Resources Code § 21080.3.1, subds. (d) and (e)

¹⁰ Pub. Resources Code § 21080.3.1 (b)

¹¹ Pub. Resources Code § 21080.3.2 (a)

¹² Pub. Resources Code § 21080.3.2 (a)

¹³ Pub. Resources Code § 21082.3 (c)(1)

¹⁴ Pub. Resources Code § 21082.3 (b)

¹⁵ Pub. Resources Code § 21080.3.2 (b)

¹⁶ Pub. Resources Code § 21082.3 (a)

¹⁷ Pub. Resources Code § 21082.3 (e)

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- c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code section 21080.3.1 (d) and the tribe failed to request consultation within 30 days.¹⁸
This process should be documented in the Tribal Cultural Resources section of your environmental document.

Under SB 18:

Government Code § 65352.3 (a) (1) requires consultation with Native Americans on general plan proposals for the purposes of "preserving or mitigating impacts to places, features, and objects described § 5097.9 and § 5091.993 of the Public Resources Code that are located within the city or county's jurisdiction. Government Code § 65560 (a), (b), and (c) provides for consultation with Native American tribes on the open-space element of a county or city general plan for the purposes of protecting places, features, and objects described in Sections 5097.9 and 5097.993 of the Public Resources Code.

- SB 18 applies to **local governments** and requires them to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf
- **Tribal Consultation:** If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.**¹⁹
- **There is no Statutory Time Limit on Tribal Consultation under the law.**
- **Confidentiality:** Consistent with the guidelines developed and adopted by the Office of Planning and Research,²⁰ the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code sections 5097.9 and 5097.993 that are within the city's or county's jurisdiction.²¹
- **Conclusion Tribal Consultation:** Consultation should be concluded at the point in which:
 - The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation.²²

NAHC Recommendations for Cultural Resources Assessments:

- Contact the NAHC for:
 - A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
 - A Native American Tribal Contact List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
 - The request form can be found at <http://nahc.ca.gov/resources/forms/>.
- Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
 - If part or the entire APE has been previously surveyed for cultural resources.
 - If any known cultural resources have been already been recorded on or adjacent to the APE.
 - If the probability is low, moderate, or high that cultural resources are located in the APE.
 - If a survey is required to determine whether previously unrecorded cultural resources are present.
- If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
 - The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

¹⁸ Pub. Resources Code § 21082.3 (d)

¹⁹ (Gov. Code § 65352.3 (a)(2)).

²⁰ pursuant to Gov. Code section 65040.2.

²¹ (Gov. Code § 65352.3 (b)).

²² (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

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Examples of Mitigation Measures That May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

- o Avoidance and preservation of the resources in place, including, but not limited to:
 - Planning and construction to avoid the resources and protect the cultural and natural context.
 - Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
- o Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - Protecting the cultural character and integrity of the resource.
 - Protecting the traditional use of the resource.
 - Protecting the confidentiality of the resource.
- o Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
- o Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed.²³
- o Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated.²⁴

The lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

- o Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources.²⁵ In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
- o Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
- o Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code section 7050.5, Public Resources Code section 5097.98, and Cal. Code Regs., tit. 14, section 15064.5, subdivisions (d) and (e) (CEQA Guidelines section 15064.5, subs. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

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²³ (Civ. Code § 815.3 (c)).

²⁴ (Pub. Resources Code § 5097.991).

²⁵ per Cal. Code Regs., tit. 14, section 15064.5(i) (CEQA Guidelines section 15064.5(i)).



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
South Coast Region
3883 Ruffin Road
San Diego, CA 92123
(858) 467-4201
www.wildlife.ca.gov

EDMUND G. BROWN JR., Governor
CHARLTON H. BONHAM, Director



December 8, 2016

Mr. Mark Brunette, Environmental Planner
City of San Diego
1222 First Avenue, MS 501
San Diego, CA 92101
DSDEAS@sandiego.gov

Subject: Comments on the Draft Mitigated Negative Declaration and Biological Resources Letter Reports for the Horton Elementary Joint Use/Guymon Street Park/Hallmark Way Reversion to Acreage Project, City of San Diego, San Diego County, California (Project Number 495774/495796, SCH # 2016111028)

Dear Mr. Brunette:

The California Department of Fish and Wildlife (Department) has reviewed the above-referenced draft Mitigated Negative Declaration (MND) and Biological Resources Letter Reports (Helix, 2016a and 2016b) for the Horton Elementary Joint Use/Guymon Street Park/Hallmark Way Reversion to Acreage Project. The following statements and comments have been prepared pursuant to the Department's authority as Trustee Agency with jurisdiction over natural resources affected by the project (California Environmental Quality Act, [CEQA] Guidelines § 15386) and pursuant to our authority as a Responsible Agency under CEQA Guidelines section 15381 over those aspects of the proposed project that come under the purview of the California Endangered Species Act (Fish and Game Code § 2050 *et seq.*) and Fish and Game Code section 1600 *et seq.* The Department also administers the Natural Community Conservation Planning (NCCP) program, a California regional habitat conservation planning program. The City of San Diego (City) participates in the NCCP program by implementing its approved Multiple Species Conservation Program (MSCP) Subarea Plan (SAP).

The proposed project is located on the north side of Guymon Street between 49th Street to the west and the existing Horton Elementary School site at 5050 Guymon Street to the east. The proposed project consists of a site development permit for the development of a 0.86-acre public pocket park including a children's play area, shade structures, barbecues, benches, exercise equipment, synthetic turf, restrooms, a drinking fountain, and security lighting on the southwestern portion of the project site. The project would also include the construction of 1.6-acre of a 3.5-acre facility for joint use by Horton Elementary School and the City of San Diego's Park and Recreation Department, consisting of a natural turf field with 6-foot-wide decomposed granite walking track around the perimeter, on the northeastern portion of the project site adjacent to Horton Elementary School.

The Department offers the following comments and recommendations to assist the City in avoiding, minimizing, and adequately mitigating project-related impacts to biological resources.

The proposed project is being circulated for CEQA review under State Clearinghouse number 2016111028 and includes the Guymon Street Pocket Park and the Horton joint-use projects. The draft MND/Initial Study (IS) indicates a combined impact acreage of 2.46 acres; the 0.86-acre public pocket park and the development of a "...1.6-acre of a 3.5-acre facility for joint use by Horton Elementary School and the City of San Diego..." (City of San Diego, 2016). However,

Conserving California's Wildlife Since 1870

HORTON ELEMENTARY JOINT USE/GUYMON STREET PARK/HALLMARK WAY REVERSION TO ACREAGE MND – RESPONSES TO COMMENTS

California Department of Fish and Wildlife Letter

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1 the nature of the 3.5-acre facility is not described in the draft MND/IS. The aggregate acreage of the pocket park and the 1.6-acre joint-use project does not total the 3.5-acre facility identified by the MND.

2 The draft MND's Mitigation Monitoring and Reporting Program (MMRP) requires less compensatory habitat mitigation than what was indicated in the two separate biological resources reports included in the draft MND/IS. The MMRP mitigates the Guymon Street pocket park and the Horton joint-use facility as one project requiring mitigation for impacts to 0.1 acre of coastal sage scrub (CSS) and no mitigation for impacts to non-native grasslands (NNG) in accordance with the City's Biology Guidelines. However, based on the information provided in the two biological resources reports — one for the Guymon Street pocket park, and another for the Horton joint-use project (collectively, biological reports; Helix, 2016a and 2016b) the Guymon Street pocket park and the Horton joint-use facility identify a combined-total of 0.3 acre of CSS, and approximately 1.2 acre of NNG—more than the 0.1 acre of CSS and 0.94 acre of NNG impacts identified by the draft MND. This is a meaningful distinction since the draft MND relies on the City's Biology Guidelines (page 67) to exempt the project from mitigating impacts to NNG when a project's impacts to NNG are less than 1.0 acre (City of San Diego, 2012). As a result, we recommend that the draft MND be revised to identify the whole of the CEQA action in accordance with CEQA Guidelines section 15378 and include impacts associated with the Guymon Street pocket park, Horton joint-use area, and any other impacts associated with the "3.5 acre facility" (City of San Diego, 2016) as identified in the draft MND. The mitigation proposed in the MND should be evaluated for consistency with existing planning documents (e.g., the City's MSCP Subarea Plan) and comprehensively detail the impacts associated with these facilities and any other reasonably foreseeable or related action.

3 In accordance with City's Biology Guidelines, "Impacts to non-native grasslands totaling less than 1.0 acres which are completely surrounded by existing urban developments are not considered significant and do not require mitigation. Examples may include urban infill lots." As identified in the Initial Study (IS), "[p]roject construction would occur immediately adjacent to additional Tier II and Tier IIIB habitat occurring outside the project area." (City of San Diego, 2016). Based on the analysis in the IS and our review of aerial imagery of the project site, we do not believe the project site meets the criteria of being isolated from adjoining habitat or surrounded by existing urban developments per criteria defined in the City's Biology Guidelines. Mitigation proposed by the MND should not treat the project site as isolated or without biological value.

Excluding 21 species of bird covered by the City's MSCP "[i]t is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird..." (Fish and Game Code § 3503). The Department recommends measures be taken to avoid impacts to nesting birds. The MND should require that clearing of vegetation, and when biologically warranted construction, occur outside of the peak avian breeding season which generally runs from February 1 through September 1 (as early as January 1 for some raptors). If project construction is necessary during the bird breeding season a qualified biologist with experience in conducting bird breeding surveys should conduct weekly bird surveys for nesting birds, within 3 days prior to the work in the area, and ensure no nesting birds in the project area would be impacted by the project. If an active nest is identified, a buffer shall be established between the construction activities and the nest so that nesting activities are not interrupted. The buffer should be a minimum width of 300 feet (500 feet for raptors), be delineated by temporary fencing, and remain in effect as long as construction is occurring or until the nest is no longer active. No project construction shall occur

HORTON ELEMENTARY JOINT USE/GUYMON STREET PARK/HALLMARK WAY REVERSION TO ACREAGE MND – RESPONSES TO COMMENTS

Response:

1. The 3.5 acre facility refers to the total acreage of the existing Horton Elementary School include both the existing developed portions and the undeveloped portion where the sports field is proposed. The proposed project will not impact the majority of the school site has been developed and does not contain sensitive biological resources. The draft MND and associated biological resources reports evaluated all areas affected by the proposed pocket park and joint use sports field and required appropriate mitigation for any impacts to those areas.
2. The Project Vicinity Maps (Aerial Photographs) included in the draft MND clearly show the existing project site is situated in a relatively small undeveloped area that is surrounded entirely by urban development. The other Tier II and IIIB (Non-native grassland - NNG) habitats outside the construction site (referenced in the IS Checklist) are small areas of habitat (0.2-acre CSS and 0.26-acre of NNG) within this same undeveloped area that is surrounded by urban development, but will not be impacted by the project. Therefore, the MND's characterization of NNG being isolated habitat with little habitat value as stated in the MND is correct and consistent with the City's CEQA Thresholds and Biology Guidelines.

The reference to 0.3 acres of CSS and 1.2 acres in the biology reports of refers to the total amount of existing habitat on and adjacent to the project site, not to the project's actual impact amounts. City of San Diego CEQA Significance Thresholds state that "Impacts to non-native grasslands totaling less than 1.0 acres which are completely surrounded by existing urban developments are not considered significant and do not require mitigation." The project impact to NNG equal 0.94-acre of the 1.2-acre existing NNG habitat on and in the vicinity of the project site, which is less than the City's 1.0 acre impact significance threshold. Therefore impacts are less than significant and don't require mitigation.
3. The City has evaluated the project for consistency with the adopted Multiple Species Conservation Program (MSCP) City of San Diego Subarea Plan and determined that it is consistent with all the requirements of the Subarea Plan, including the habitat loss mitigation ratios required by the MSCP for CSS and NNG.

4 within the fenced nest zone until the young have fledged, are no longer being fed by the parents, have left the nest, and will no longer be impacted by the project. Reductions in the nest buffer distance may be appropriate depending on the avian species involved, ambient levels of human activity, screening vegetation, or possibly other factors. Currently, the IS states that "[t]he project would not result in significant direct and indirect impacts to bird species, including sensitive species such as the yellow warbler and tree nesting raptors, in the event they are found to be nesting on site or within 500 feet of project construction, because the project is required to comply with MBTA [Migratory Bird Treaty Act] and CFG Code [Fish and Game Code § 3503, and 3503.5]". While the IS stops short of requiring specific nesting bird avoidance measures, any discussion of nesting season avoidance or nest buffer criteria is absent from the MMRP. The MMRP should be revised to incorporate a specific and enforceable mitigation measure requiring nesting bird season avoidance or avoidance similar to our recommendations above.

We appreciate the opportunity to comment on this draft MND. Questions regarding this letter and further coordination on these issues should be directed to Eric Weiss at (858-467-4289), or eric.weiss@wildlife.ca.gov.

Sincerely,



Gail K. Sevens
Environmental Program Manager
South Coast Region

cc: State Clearinghouse, Sacramento
Patrick Gower, U.S. Fish and Wildlife Service, Carlsbad

References

City of San Diego. March 1997. Multiple Species Conservation Program, City of San Diego Subarea Plan. City of San Diego Community and Economic Development Department.

City of San Diego. August 1998. Final Regional Plan for the Multiple Species Conservation Program.

City of San Diego. 2012. San Diego Municipal Code Land Development Code—Biology Guidelines. Amended April 23, 2012.

City of San Diego. 2016. Horton Elementary Joint Use/Guymon Street Park/Hallmark Way Reversion to Acreage Mitigated Negative Declaration/Initial Study. November, 2016.

Helix Environmental Planning, 2016a. Biological Resources Letter Report for the Guymon Street Pocket Park Project. June 13, 2016.

Helix Environmental Planning, 2016b. Biological Resources Letter Report for the Horton Joint Use Project. June 13, 2016.

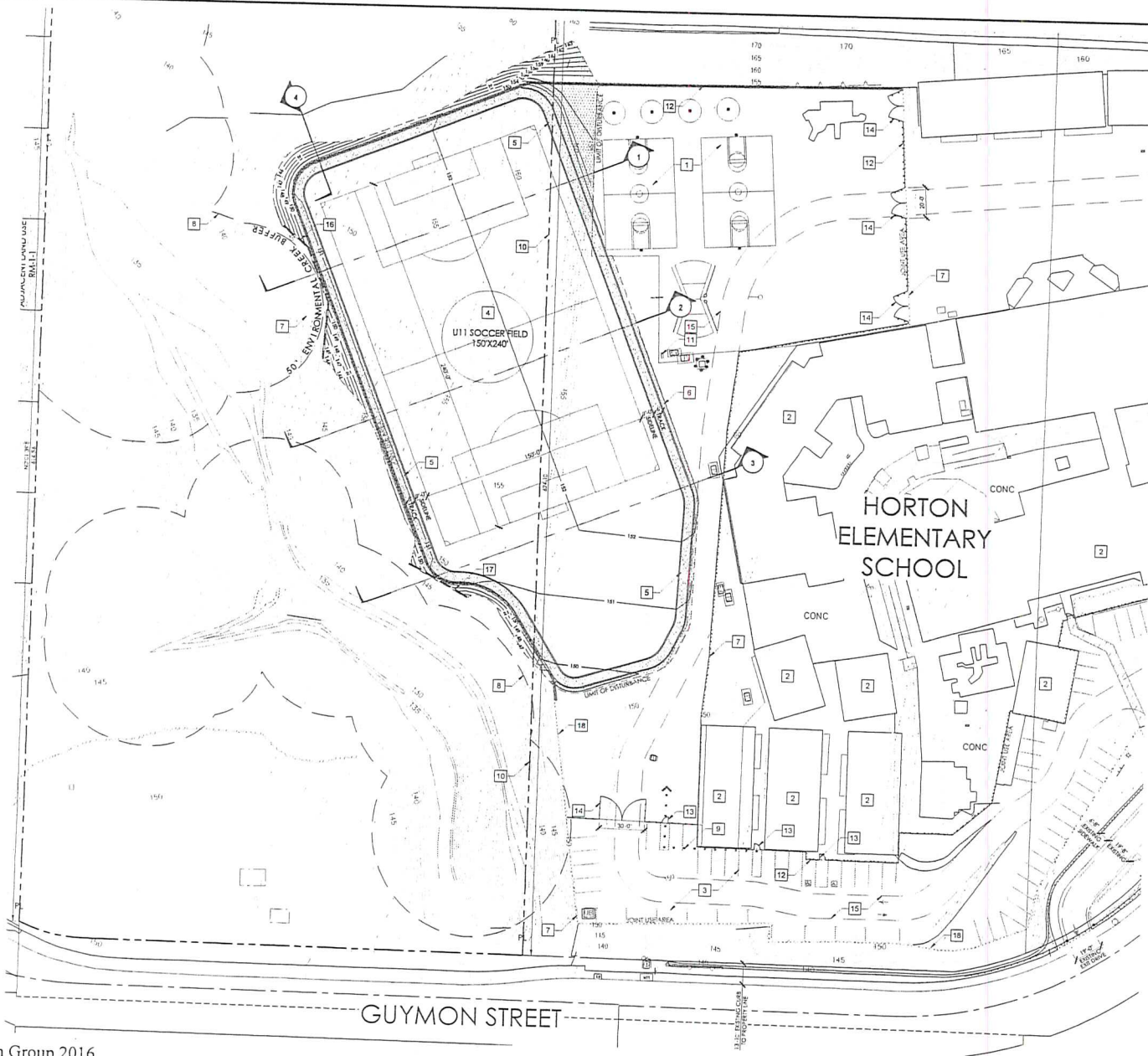
4. As stated in the Initial Study Checklist, since the project is located outside the Multi Habitat Planning Area (MHPA) of the Subarea Plan, no bird avoidance measures are required by the City's adopted MSCP Subarea Plan. However, the project is subject to the nesting bird avoidance measures in the MBTA and the project will comply with these measures through inclusion of an MTBA compliance requirements in the construction documents for the project. However, since the MBTA is not a City of San Diego regulation, and the City of San Diego does not have enforcement authority over a federal or state law, it is not appropriate to include bird avoidance measures in the Mitigation, Monitoring, and Reporting Program (MMRP) of the MND.

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Project Vicinity (Aerial Photograph) with MHPA/

HORTON JOINT USE PROJECT



Source: RRM Design Group 2016

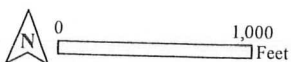
I:\PROJECTS\SSSD\SSDD-23.15_HortonElementary\Map\BLR\Guymon\Fig2_Aerial.mxd RDG-01.06 05/04/16 -RK



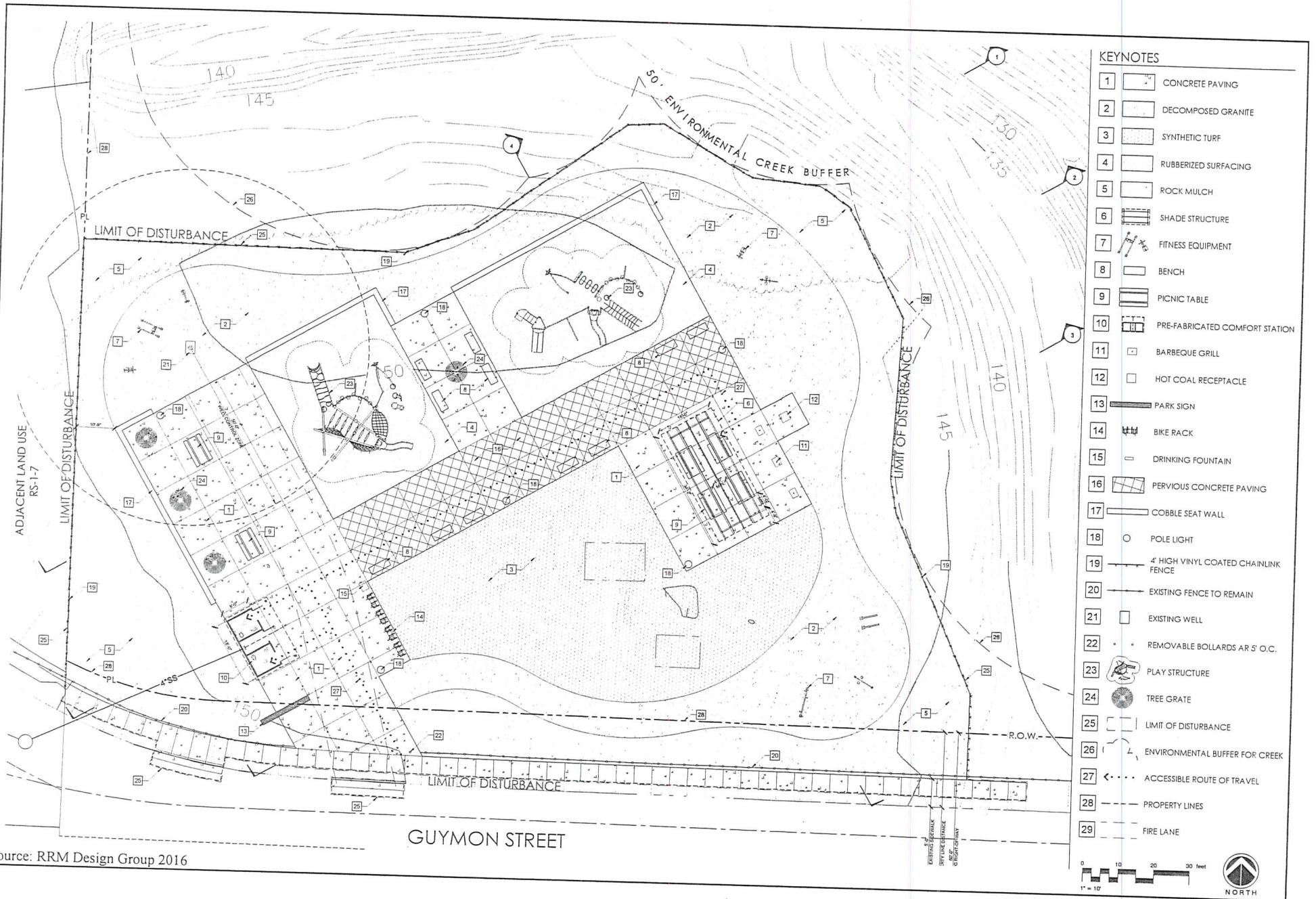
Project Vicinity (Aerial Photograph) with MHPA

GUYMON STREET POCKET PARK

HELIX
Environmental Planning



Source: RRM Design Group 2016



INITIAL STUDY CHECKLIST

1. Project Title/Project Number: **HORTON ELEMENTARY JOINT USE/GUYMON STREET PARK/HALLMARK WAY REVERSION TO ACREAGE PROJECT/PROJECT NOS. 495774 & 495796**

2. Lead agency name and address:

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

3. Contact person and phone number: Mark Brunette/ (619) 446-5379

4. Project location:

The project site is located on the north side of Guymon Street between 49th Street to the west and the existing Horton Elementary School site at 5050 Guymon Street to the east. The project is located within the Encanto Neighborhoods Community Plan area and Council District 4 (See attached location map).

5. Project Applicant/Sponsor's name and address:

City of San Diego Public Works Department – Engineering and Capital Projects, Right of Way Design Division

6. General Plan designation:

Population Based Park and Institutional

7. Zoning:

The proposed project is within the RS-1-1 zones (Residential – Single Unit) and the OP-1-1 zone (Open Space - Park) zone.

8. Description of project (Describe the whole action involved, including but not limited to, later phases of the project, and any secondary, support, or off-site features necessary for its implementation.):

A Site Development Permit for development on Environmentally Sensitive Lands and a Reversion of Acreage for the vacation of the existing unimproved Hallmark Way public right-of-way to allow construction of a proposed public pocket park. The proposed project consists of development of a 0.86-acre public pocket park including children's play area, shade structures, barbeques, benches, exercise equipment, synthetic turf, restrooms, a drinking fountain, and security lighting on the southwestern portion of the project site. The project would also include construction of 1.6-acre of a 3.5 acre facility for joint use by Horton Elementary School and the City of San Diego, consisting of a natural turf field with six-foot wide decomposed granite walking track on its perimeter, on the

northeastern portion of the project site adjacent to Horton Elementary School. **The project site is not included on any Government Code listing of hazardous waste sites.**

9: Surrounding land uses and setting: Briefly describe the project's surroundings:

The project site is currently undeveloped and is covered by partially disturbed vegetated areas with the exception of the easternmost portion of the site which is currently a previously disturbed dirt area that is part of Horton Elementary School. Vegetation on site includes small pockets of Diegan Coastal Sage scrub, and areas of non-native grassland, disturbed habitat, and ornamental vegetation. The western portion of the site is owned by the City of San Diego and administered by the Park and Recreation Department. The eastern portion of the site is owned by the San Diego Unified School District.

A natural drainage extends through the central portion of the project site toward the southeast, which separates the relatively flat proposed pocket park site at the southwest corner of the site from the relatively flat proposed joint use recreation field at the northeast corner of the site.

The project site is bounded to the south by Guymon Street, an improved public street, and paved automobile and bus storage lots on the south side of Guymon Street. Horton Elementary school is situated east of the project site, and existing single family homes are located adjacent to the site to the west and north. The project site is not located within or adjacent to the Multi-Habitat Planning Area preserve of the Multiple Species Conservation Program City of San Diego Subarea Plan.

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.):

Not applicable

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, has consultation begun?

Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

No, a Native American Tribe traditionally and culturally affiliated with the project area has not requested consultation with the City of San Diego for the proposed project pursuant to Public Resources Code section 21082.3 (c).

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | | |
|-------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Greenhouse Gas Emissions | <input type="checkbox"/> Population/Housing |
| <input type="checkbox"/> Agriculture and Forestry Resources | <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Public Services |
| <input type="checkbox"/> Air Quality | <input type="checkbox"/> Hydrology/Water Quality | <input type="checkbox"/> Recreation |
| <input checked="" type="checkbox"/> Biological Resources | <input type="checkbox"/> Land Use/Planning | <input type="checkbox"/> Transportation/Traffic |
| <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Mineral Resources | <input type="checkbox"/> Utilities/Service System |
| <input type="checkbox"/> Geology/Soils | <input type="checkbox"/> Noise | <input type="checkbox"/> Mandatory Findings Significance |

DETERMINATION: (To be completed by Lead Agency)

On the basis of this initial evaluation:

- ☐ The proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☒ Although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- ☐ The proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ The proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (a) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (b) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required.
- ☐ Although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or (MITIGATED) NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or (MITIGATED) NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis.)
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
- 4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from “Earlier Analyses”, as described in (5) below, may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or (mitigated) negative declaration. *Section 15063(c)(3)(D)*. In this case, a brief discussion should identify the following:
 - a. Earlier Analysis Used. Identify and state where they are available for review.
 - b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c. Mitigation Measures. For effects that are “Less Than Significant With Mitigation Measures Incorporated”, describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion. Please note, all reports and documents mentioned in this document are available for public review in the Entitlements Division on the Fifth Floor of 1222 First Avenue, San Diego.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
 - a. The significance criteria or threshold, if any, used to evaluate each question; and
 - b. The mitigation measure identified, if any, to reduce the impact to less than significant.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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I) AESTHETICS – Would the project:

- a) Have a substantial adverse effect on a scenic vista? ☐ ☐ ☐ ☒

The Encanto Neighborhoods Community Plan does not identify public scenic vistas either at the project site or adjacent the project site. Therefore, the proposed project would have no significant impacts to public scenic vistas and no mitigation would be required.

- b) Substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? ☐ ☐ ☐ ☒

See answer to I.a. above. In addition, the project would not damage any existing scenic rock outcroppings, trees, or historic buildings (Refer to V.a.) as none of these features are located within the boundaries of the proposed project. Furthermore, the project site is not located near a state scenic highway.

- c) Substantially degrade the existing visual character or quality of the site and its surroundings? ☐ ☐ ☐ ☒

See answer to I.a and I.b. above. The project proposes a neighborhood park and joint use recreation field on land that is currently undeveloped. This is consistent with the applicable community plan land use designations and would enhance the visual character of the surrounding residential and non-residential land uses.

- d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area? ☐ ☐ ☐ ☒

The project would include security lighting; however, the lighting would be designed to prevent light trespass onto adjacent properties or public roads. In addition, no substantial sources of light would be generated during project construction, as construction activities would occur during daylight hours. The project would also be subject to the City's Outdoor Lighting Regulations per Municipal Code Section 142.0740.

- II) AGRICULTURAL AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. – Would the

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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project:

- a) Converts Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

☐ ☐ ☐ ☒

The project would occur on land that is designated for passive and active recreation uses and not designated for agricultural use or farmland. In addition, agricultural land is not present in the vicinity of the project.

- b) Conflict with existing zoning for agricultural use, or a Williamson Act Contract?

☐ ☐ ☐ ☒

Refer to II.a.

- c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 1220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

☐ ☐ ☐ ☒

The project would occur on land that is designated for passive and active recreation uses and not designated for forest land or timberland. In addition, forest land or timberland is not present in the vicinity of the project.

- d) Result in the loss of forest land or conversion of forest land to non-forest use?

☐ ☐ ☐ ☒

Refer to II.c.

- e) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

☐ ☐ ☐ ☒

The project does not propose a change in land use and would not result in the conversion of Farmland since no Farmland exists within, or in the vicinity, of the project boundaries.

III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied on to make the following determinations - Would the project:

- a) Conflict with or obstruct implementation of the applicable air quality plan?

☐ ☐ ☒ ☐

The proposed park and joint use recreation field are consistent with the community plan

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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and zoning designations and, therefore, are consistent with the air quality impact assumptions of the community plan and would result in a less than significant impact on air quality. Emissions would occur during the construction phase of the project and could increase the amount of harmful pollutants entering the air basin; however, the emissions would be minimal and would only occur temporarily during construction. When appropriate, dust suppression methods would be included in project construction. As such, the project would not conflict with the region's air quality management plan.

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| b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Refer to III.b

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| c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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As described above, construction operations could temporarily increase the emissions of dust and other pollutants. However, construction emissions would be temporary and implementation of Best Management Practices would reduce potential impacts related to construction activities to below a level of significance. Therefore, the project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under applicable federal or state ambient air quality standards.

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| d) Expose sensitive receptors to substantial pollutant concentrations? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Construction operations could temporarily increase the emissions of harmful pollutants, which could affect sensitive receptors adjacent to the project. However, construction emissions would be temporary and it is anticipated that implementation of construction BMPs would reduce potential impacts related to construction activities to minimal levels. Therefore, the project would not expose sensitive receptors to substantial pollutant concentrations.

- | | | | | |
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| e) Create objectionable odors affecting a substantial number of people? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|

Operation of construction equipment and vehicles could generate odors associated with fuel combustion. However, these odors would dissipate into the atmosphere upon release and would only remain temporarily in proximity to the construction equipment and vehicles. Therefore, the project would not create odors affecting a substantial number of people.

IV. BIOLOGICAL RESOURCES – Would the project:

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have substantial adverse effects, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Less than significant with mitigation. The information stated under the biological resources section of the Initial Study Checklist is based on the analysis and conclusions of the Biological Resources Letter Reports for the Horton Joint Use and the Guymon Street Pocket Park projects (Helix Environmental Planning, Inc., June 13, 2016).

Sensitive Species

No federally or state listed endangered or threatened species are known to occur or expected to occur within the project site, and none are expected to be impacted by the project. Project development has been specifically targeted to avoid riparian habitat and buffer areas; however, the project would impact two plant species listed as sensitive by the CNPS: western dichondra and ashy spike-moss. The project would impact one patch of western dichondra including 40 leaves (fewer than 40 plants), and approximately nine concentrations of ashy spike-moss, including one larger patch comprising approximately 0.02 acre (825 square feet). These species have a California Rare Plant Rank of 4.1 and 4.2, respectively, for plants of limited distribution, a watch list. Project impacts to western dichondra and ashy spike-moss are not considered significant, as very few individuals would be impacted, both species have low sensitivity ranks, and the on-site populations are not part of a critical population of either species. No other special status plant species, including MSCP narrow endemic species, have a moderate or high potential to occur due to lack of suitable habitat; none are expected to be impacted by the project.

Although no listed threatened or endangered animal species were observed or expected to occur on site, one State Species of Special Concern, yellow warbler, was detected within the riparian woodland to the west of the site. Yellow warbler is not an MSCP-covered species. No impact to riparian habitat supporting this species would occur. In addition, no indirect impacts to yellow warbler are anticipated as development would be set back a minimum of 50 feet from the riparian woodland. However, warblers do have the potential to nest off-site within 500 feet of project construction and avoidance is required, as explained below. The project would not result in significant direct and indirect impacts to bird species, including sensitive species such as the yellow warbler and tree-nesting raptors, in the event they are found to be nesting on site or within 500 feet of project construction, because the project is required to comply with the MBTA and CFG Code.

The coastal California gnatcatcher is not expected to occur on site because the coastal sage scrub habitat on site is limited in size, sparsely vegetated, and dominated by jojoba. The site has been disturbed by anthropogenic activity and is surrounded by urban development. Suitable habitat for this species is not present on or adjacent to the site; therefore, no impacts would occur to coastal California gnatcatcher as a result of the project.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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Impacts to Sensitive Habitat

Impacts to other sensitive animal species with potential to occur would be considered less than significant with the implementation of the habitat-based mitigation described below.

Diegan Coastal Sage Scrub

The project would result in a total of 0.1 acre of permanent, direct impacts to Diegan coastal sage scrub, a Tier II City of San Diego MSCP Subarea Plan upland habitat, outside of MHPA. The impacted Tier II habitat is relatively disturbed and surrounded by non-native grassland. Upland impacts to Tiers I-IIIB habitats totaling less than 0.1 acre are not considered significant and do not require mitigation. The project would impact 1.04-acre of Tier I-IIIB upland habitat, and thus the impact to Diegan coastal sage scrub is considered significant. Impacts must be mitigated at a 1:1 ratio if the mitigation occurs within the MHPA and a 1.5:1 ratio if the mitigation occurs outside of the MHPA. The project applicant will be required to provide payment into the City of San Diego Habitat Acquisition Fund (HAF) for impacts to 0.1-acre of Tier II habitat to reduce potential impacts to a less than significant level.

Non-Native Grassland

The project would result in a total of 0.94-acre of permanent, direct impacts to non-native grassland, a Tier IIIB habitat, outside of MHPA. Impacts to non-native grasslands totaling less than 1.0 acres which are completely surrounded by existing urban developments are not considered significant and do not require mitigation. The project would impact less than 1.0 acre of non-native grassland surrounded by existing urban development, and thus the impact to non-native grassland is not significant and mitigation is not required.

Project construction would occur immediately adjacent to additional Tier II and Tier IIIB habitat occurring outside of the project area. Inadvertent intrusion into this adjacent sensitive habitat by construction vehicles, equipment, and personnel could result in additional impacts. Temporary construction fencing will be installed to mark the limits of project impacts adjacent to Tiers II and IIIB habitats to prevent unauthorized impacts. This project design feature will be incorporated into the project's construction plans.

Conclusion

The project would result in significant impacts to Tier II habitat; however, a combination of avoidance through project design and mitigation measures to fully compensate the loss of habitat would reduce impacts to below a level of significance. Mitigation is proposed at ratios consistent with those required by the City and Wildlife Agencies. With the implementation of the compensatory mitigation measure described above and in Section 5 of this MND, impacts on Tier II habitat would be reduced to a less than significant level.

- b) Have a substantial adverse effect on any riparian ☐ ☒ ☐ ☐

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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habitat or other community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Upland Habitats

Less Than Significant with Mitigation. See response to question IV.a. above.

Wetland Habitats

No Impact. The proposed project would not result in any impacts to federally, state, or City protected wetland habitats since wetlands do not occur in the project site.

- | | | | | |
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| c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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No Impact. The proposed project would not result in any impacts to federally, state, or City protected wetlands since wetlands do not occur in the project site. No mitigation measures are required.

- | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|

Less Than Significant Impact. The project would not impede the movement of any native, resident, or migratory fish or wildlife species or interfere with established native, resident, or migratory wildlife corridors. In addition, the project would not interfere with linkages identified in the MSCP Plan or use of native wildlife nursery sites. The project is surrounded by either residential development or native, undeveloped habitat. Most of the project components will be underground and would not interfere with wildlife movement. Impacts are considered less than significant.

- | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|

Less Than Significant with Mitigation. See response to question IV.a. and b. above.

- | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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Less Than Significant with Mitigation. As stated under question IV.a. above, the project would result in potential significant impacts to Tier II habitat. The project is located within the adopted City MSCP Subarea Plan, outside of MHPA. Implementation of mitigation measure identified under question IV.a. would ensure project consistency with the adopted City MSCP Subarea Plan. No other adopted HCP, Resource Management Plan, Special Area Management Plan, Watershed Plan, or other regional planning efforts are applicable to the project.

V. CULTURAL RESOURCES – Would the project:

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|-------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Cause a substantial adverse change in the significance of an historical resource as defined in §15064.5? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The project would not impact any designated historic structures or resources as the project site is undeveloped and there are no structures present.

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| b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The proposed project is located in an area that is not sensitive for the discovery of archaeological resources according to City of San Diego archaeological sensitivity maps. A qualified City of San Diego archaeologist reviewed these maps and conducted a records search of the CHRIS database. Based on the City archaeologist's review of this information, it has been determined that the project would not impact archaeological resources. Therefore, no mitigation is required.

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| c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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The proposed project would not excavate more than 10 feet below existing grade. Therefore, the project would not exceed the City of San Diego CEQA Significance Determination Thresholds for impacts to paleontological resources. As such, the project would have a less than significant impact on paleontological resources and no mitigation is required.

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| d) Disturb any human remains, including those interred outside of formal cemeteries? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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No cemeteries, formal or informal, have been identified on or adjacent to the project site. While there is a possibility of encountering human remains during subsequent project construction activities, if remains are found monitoring would be required. In addition, per CEQA Section 15064.5(e), the California Public Resources Code (Sec. 5097.98) and State Health and Safety Code (Sec. 7050.5), if human remains are discovered during construction, work would be required to halt in that area and no soil would be exported off-site until a determination could be made regarding the provenance of the human remains via the County Coroner and other authorities as required.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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VI. GEOLOGY AND SOILS – Would the project:

- a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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The Final Report of Geotechnical Investigation Horton Joint Use and Final Report of Geotechnical Investigation Guymon Street Pocket Park (Allied Geotechnical Engineers, Inc., August 17, 2016) conclude that the project site is suitable for the proposed project provided the recommendations of the investigations are followed. City of San Diego staff will ensure that the recommendations are followed through the building and grading permit review, and project inspection processes. In addition, the project would utilize proper engineering design and standard construction practices in order to ensure that potential impacts in this category based on regional geologic hazards would remain less than significant. Therefore risks from rupture of a known earthquake fault would be below a level of significance.

ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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See VI.a.i. above. The project would be required to utilize proper engineering design and standard construction practices to ensure that the potential for impacts from ground shaking would be below a level of significance.

iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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See VI.a.i. above.

iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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See VI.a.i. above.

b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Refer to VI.a. All areas that are disturbed by the proposed project would be covered by either structures, hardscape, or landscaping, which would preclude soil erosion or topsoil loss. Additionally, appropriate Best Management Practices would be utilized during and after project construction to prevent soil erosion. As such, the project would not result in a substantial amount of soil erosion or loss of topsoil.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Refer to VI.a. In addition, the project is located within City of San Diego Geologic Hazard Category 52 which is designated as "other level areas, gently sloping to steep terrain with a favorable geologic structure and low geologic risk. In addition, proper engineering design and utilization of standard construction practices would ensure that the potential impacts would be less than significant.

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| d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Refer to VI.a.

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| e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Refer to VI.a. In addition, no septic or alternative wastewater systems are proposed since the project will be connected to the public sewer system.

VII. GREENHOUSE GAS EMISSIONS – Would the project:

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| a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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In December 2015, the City adopted a Climate Action Plan (CAP) that outlines the actions that City will undertake to achieve its proportional share of State greenhouse gas (GHG) emission reductions. The purpose of the Climate Action Plan Consistency Checklist (Checklist) is to, in conjunction with the CAP, provide a streamlined review process for proposed new development projects that are subject to discretionary review and trigger environmental review pursuant to the California Environmental Quality Act (CEQA).

Analysis of GHG emissions and potential climate change impacts from new development is required under CEQA. The CAP is a plan for the reduction of GHG emissions in accordance with CEQA Guidelines Section 15183.5. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of the CAP.

This Checklist is part of the CAP and contains measures that are required to be implemented on a project-by-project basis to ensure that the specified emissions targets identified in the CAP are achieved. Implementation of these measures would ensure that new development is consistent with the CAP's assumptions for relevant CAP strategies toward achieving the

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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identified GHG reduction targets. Projects that are consistent with the CAP as determined through the use of this Checklist may rely on the CAP for the cumulative impacts analysis of GHG emissions. Projects that are not consistent with the CAP must prepare a comprehensive project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions and incorporation of the measures in this Checklist to the extent feasible. Cumulative GHG impacts would be significant for any project that is not consistent with the CAP.

Under Step 1 of the CAP Checklist the proposed project is consistent with the existing General Plan and Community Plan land use designations, and zoning designations for the project site because these designations allow for the construction of a neighborhood park and joint use recreational facility. Therefore, the proposed project is consistent with the growth projections and land use assumptions used in the CAP.

Furthermore, completion of the Step 2 of the CAP Checklist for the project demonstrates that the CAP strategies for reduction in GHG emissions will be incorporated into the project design, and therefore, the proposed project is consistent with the applicable strategies and actions of the CAP.

Therefore, the project has been determined to be consistent with the City of San Diego Climate Action Plan, and as such, would result in a less than significant impact on the environment with respect to Greenhouse Gas Emissions; and further GHG emissions analysis and mitigation would not be required.

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| b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Refer to VII.a.

VIII. HAZARDS AND HAZARDOUS MATERIALS – Would the project:

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| a) Create a significant hazard to the public or the environment through routine transport, use, or disposal of hazardous materials? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Construction of the project may require the use of hazardous materials (e.g. fuels, lubricants, solvents, etc.) which would require proper storage, handling, use and disposal; however, these conditions would not occur during routine construction within the PROW.

Construction specifications would include requirements for the contractor regarding where routine handling or disposal of hazardous materials could occur and what measures to implement in the event of a spill from equipment. Compliance with contract specifications would ensure that potential hazards are minimized to below a level of significance.

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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The project site is not included on any Government Code listing of hazardous waste sites. The project site may be within 1,000 feet of off-site contamination; however, in the event that construction activities encounter underground contamination, the contractor would be required to implement section 803 of the City's "WHITEBOOK" for "Encountering or Releasing Hazardous Substances or Petroleum Products" of the City of San Diego Standard Specifications for Public Works Construction which is included in all construction documents and would ensure the proper handling and disposal of any contaminated soils in accordance with all applicable local, state, and federal regulations. Compliance with these requirements would minimize the risk to the public and the environment; therefore, impacts would remain less than significant.

- c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

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Portions of the project are within one-quarter mile of existing schools and would involve trenching or excavation activities that could result in the release of hazardous emissions if unanticipated contamination is encountered within the PROW. However, section 803 of the City's "WHITEBOOK" to ensure that appropriate protocols are followed pursuant to County DEH requirements should any hazardous conditions be encountered. As such, impacts regarding the handling or discovery of hazardous materials, substances or waste within close proximity of a school would be below a level of significance with implementation of the measures required pursuant to the contract specifications and County DEH oversight.

- d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

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See VIIIa-c above. In addition, the project site is not included on a list of hazardous materials locations.

- e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two mile of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

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The project site is not located within an Airport Influence Area of an Airport Land Use Compatibility Plan. As such, the project would not introduce any new features that would result in a safety hazard for people residing or working in the area, or create a flight hazard.

- f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

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The project site is not within proximity of a private airstrip.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

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Construction of the proposed project would temporarily affect traffic circulation within the project Area of Potential Effect (APE) and its adjoining roads. However, an approved Traffic Control Plan would be implemented during construction which would allow emergency plans to be employed. Therefore, the project would not physically interfere with an adopted emergency response plan or emergency evacuation plan.

- h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

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The project site is surrounded by existing residential and non-residential development and is not located adjacent to a wildland area. Therefore, the project would not expose people or structures to a significant risk of loss, injury or death involving wildland fires.

IX. HYDROLOGY AND WATER QUALITY - Would the project:

- a) Violate any water quality standards or waste discharge requirements?

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The Hydrology Reports and Water Quality Study Reports for the Horton Joint Use and Guymon Park projects (RRM Design Group, June 8, 2016) concluded that the project has been designed to conserve natural areas, soils and vegetation, and that the project footprint has been limited to the extent possible to minimize grading and retaining walls. The reports state the majority of the project site consists of permeable improvements with only a small portion of new impervious surfaces. Furthermore, the reports conclude that the project has been designed in accordance with the City of San Diego Storm Water Standards, January 2016 Edition and the City of San Diego Drainage Design Manual, both of which are consistent with the most recent Municipal Storm Water (MS4) Permit for San Diego county.

Therefore, the proposed project would not violate any existing water quality standards or discharge requirements and no mitigation is required.

- b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

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The project does not use groundwater, nor would it create substantially large new

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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impervious surfaces that would interfere with groundwater recharge.

- c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner, which would result in substantial erosion or siltation on- or off-site?

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Refer to IX.a. and VI.b.

- d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or off-site?

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Refer to IX.a.

- e) Create or contribute runoff water, which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff?

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Refer to IX.a. The project would be required to comply with all local and regional storm water quality standards during and after construction using approved Best Management Practices (BMPs), which would ensure that water quality is not degraded.

- f) Otherwise substantially degrade water quality?

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Refer to IX.a. The project would be required to comply with all local and regional storm water quality standards during and after construction using approved Best Management Practices (BMPs), which would ensure that water quality is not degraded.

- g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

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The project does not propose any housing.

- h) Place within a 100-year flood hazard area, structures that would impede or redirect flood flows?

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The project does not propose any structures that would impede flood flows.

- i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

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Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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The proposed project does not include any features that would increase the risk associated with flooding beyond those of existing conditions.

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| j) Inundation by seiche, tsunami, or mudflow? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The proposed project does not include any features that would increase the risk associated with inundation by seiche, tsunami, or mudflow beyond those of existing conditions.

X. LAND USE AND PLANNING – Would the project:

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|------------------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Physically divide an established community? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The project would involve development of a neighborhood park and joint use sports recreation field and would not introduce new features that could divide an established community.

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| b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The project would involve development of a neighborhood park and joint use sports recreation field and would be consistent with all applicable land use plans, policies, or regulations of an agency with jurisdiction over the project and would not conflict with any land use plans.

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| c) Conflict with any applicable habitat conservation plan or natural community conservation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Refer to IV. The project is not located within or adjacent to the MHPA preserve area of the City of San Diego Multiple Species Conservation Program. Therefore, the project would not result in direct or indirect impacts to the MHPA.

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| d) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The areas around the proposed project are not being used for the recovery of mineral resources and are not designated by the General Plan or other local, state or federal land use plan for mineral resources recovery; therefore, the project would not result in the loss of mineral resources.

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| e) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Refer to X.d.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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XII. NOISE – Would the project result in:

- a) Generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

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The project would not result in the generation of operational noise levels in excess of existing standards or existing ambient noise levels in the vicinity of the project.

- b) Generation of excessive ground borne vibration or ground borne noise levels?

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The project would not result in the generation of operational ground borne vibration or noise levels in excess of existing standards or ambient levels.

- c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

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Refer to XII.a-b

- d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above existing without the project?

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The proposed neighborhood park and joint use sports recreation field would result in construction noise, but would be temporary in nature; in addition, the project is required to comply with the San Diego Municipal Code, Chapter 5, Article 9.5, (§59.5.0404 Construction Noise). This section specifies that it is unlawful for any person, between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on legal holidays (with exception of Columbus Day and Washington's Birthday), or on Sundays, to erect, construct, demolish, excavate for, alter or repair any building or structure in such a manner as to create disturbing, excessive or offensive noise. In addition, the project would be required to conduct any construction activity so as to not cause, at or beyond the property lines of any property zoned residential, an average sound level greater than 75 decibels during the 12-hour period from 7:00 a.m. to 7:00 p.m.

- e) For a project located within an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport would the project expose people residing or working in the area to excessive noise levels?

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The project site is not located within an Airport Influence Area of an Airport Land Use Compatibility Plan. Therefore, people working on the project would not be exposed to excessive airport noise levels. The project, in and of itself, would not generate operational noise in excess of municipal code noise limits.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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| f) | For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The project site is not located within the vicinity of a private airstrip.

XIII. POPULATION AND HOUSING – Would the project:

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| a) | Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project is infill development within an existing developed residential and non-residential community. Therefore, the project would not induce population growth nor require the construction of new infrastructure.

- | | | | | | |
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| b) | Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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No such displacement would result. There is no existing housing within the boundaries of the proposed project.

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|----|----------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| c) | Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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No such displacement would result. There is no existing housing or residents within the boundaries of the project.

XIV. PUBLIC SERVICES

- | | | | | | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) | Would the project result in substantial adverse physical impacts associated with the provisions of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service rations, response times or other performance objectives for any of the public services: | | | | |
| i) | Fire Protection | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

The project would not result in adverse physical impacts of fire facilities or adversely affect existing levels of fire services.

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|-----|-------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| ii) | Police Protection | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The project would not affect existing levels of police protection service and would not require the construction or expansion of a police facility.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
iii) Schools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The project would not affect existing levels of public services and would not require the construction or expansion of a school facility.				
v) Parks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The project would not affect existing levels of public services and would enhance the availability of park and recreation services for the community.				
vi) Other public facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The project would not affect existing levels of public services; therefore, no new or altered government facilities would be required.				

XV. RECREATION -

- a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The project would not adversely affect the availability of and/or need for new or expanded recreational resources because it would provide new park and recreation facilities for the community.

- b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?
- | | | | |
|--------------------------|-------------------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Refer to XV.a. The project proposes new recreation facilities, but these facilities are consistent with the community plan land use and zoning designations. In addition, the project has been designed to reduce potentially significant impacts to biological resources to a less than significant level through the implementation of the mitigation measures identified in this Initial Study Checklist and Section V of the Mitigated Negative Declaration.

XVI. TRANSPORTATION/TRAFFIC - Would the project?

- a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?
- | | | | |
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| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Construction of the proposed project would temporarily affect traffic circulation within the

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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project Area of Potential Effect (APE) and its adjoining roads. However, an approved Traffic Control Plan would be implemented during construction such that traffic circulation would not be substantially impacted. In addition, the proposed project is consistent with the applicable community plan land use designations and is, therefore, consistent with the build-out traffic generation assumptions of the Kearny Mesa Community Plan EIR. As such, the project would not result in any significant permanent increase in traffic generation or level of service.

- b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?
- | | | | |
|--------------------------|--------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|-------------------------------------|--------------------------|

Refer to XVI.a. In addition, construction of the proposed project would temporarily affect traffic circulation within the project Area of Potential Effect (APE) and its adjoining roads. However, an approved Traffic Control Plan would be implemented during construction so that existing cumulative or individual levels of service are minimally impacted. Therefore, the project would not result in any significant permanent increase in traffic generation or permanent reduction in level of service.

- c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

Refer to XVI.a. In addition, the project would not result in safety risks or a change to air traffic patterns in that the project site is not located near any air traffic patterns.

- d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project would not create a permanent increase in hazards resulting from design features and would reduce temporary hazards due to construction to a less than significant level through a Traffic Control Plan. The project does not propose any change in land use that would affect existing land uses in the area.

- e) Result in inadequate emergency access?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

Construction of the proposed project would temporarily affect traffic circulation within the project Area of Potential Effect (APE) and its adjoining roads. However, an approved Traffic Control Plan would be implemented during construction such that emergency access would not be substantially impacted. Therefore, the project would not result in inadequate emergency access.

- f) Conflict with adopted policies, plans, or programs
- | | | | |
|--------------------------|--------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|-------------------------------------|--------------------------|

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
-------	--------------------------------------	----------------------------------------------------------------	------------------------------------	-----------

regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

The project would temporarily impact circulation during construction activities relative to traffic, pedestrians, public transit and bicycles. However, the preparation of a Traffic Control Plan would ensure that any disruption to these services would not be significant.

XVII. TRIBAL CULTURAL RESOURCES- Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or

☐ ☐ ☐ ☒

No tribal cultural resources as defined by Public Resources Code section 21074 have been identified on the project site. Furthermore, the project site was not determined to be eligible for listing on either the State or local register of historical resources.

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

☐ ☐ ☐ ☒

No significant resources pursuant to subdivision (c) of Public Resources Code Section 5024.1 have been identified on the project site.

~~XVII~~XVIII. UTILITIES AND SERVICE SYSTEMS – Would the project:

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

☐ ☐ ☒ ☐

Refer to IX.a through f. Storm water runoff from the proposed neighborhood park and sports recreation field would be treated to remove storm water pollutants prior to flowing into the City's storm water drainage system consistent with the most current Municipal Storm Water (MS4) Permit requirements. Therefore, the project would not exceed the requirements of the Regional Water Quality Control Board.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

Refer to IX.a through f. The proposed project has been designed to meet the most current local and regional drainage and storm water standards. It would not result a substantial increase in the demand for water or the generation of wastewater and would, therefore, not result in a significant impact on the environment.

- c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?
- | | | | |
|--------------------------|--------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|-------------------------------------|--------------------------|

Refer to IX.a through f. The proposed project has been designed to meet the most current local and regional drainage and storm water standards. It would not result a substantial increase in storm water drainage. Therefore, the project would not require the construction of new storm water drainage facilities or expansion of existing facilities.

- d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?
- | | | | |
|--------------------------|--------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|-------------------------------------|--------------------------|

The project does not include any of the uses identified as high water uses by Senate Bills 610 and 221 which are intended to conserve water. In addition, the project's landscaping and irrigation has been designed to maximize water conservation and meet the most recent water conservation requirements adopted by the State of California. Therefore, there will be adequate water supply available to serve the proposed project without new or expanded water entitlements, and the project would result in a less than significant impact on the environment.

- e) Result in a determination by the wastewater treatment provided which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

Refer to XVII.b and c

- f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?
- | | | | |
|--------------------------|--------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|-------------------------------------|--------------------------|

Construction of the project would likely generate minimal waste as there would be no waste material to remove from the undeveloped project site. Project waste would be disposed of in accordance with all applicable local and state regulations pertaining to solid waste including the permitted capacity of the landfill serving the project area. Demolition or

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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construction materials which can be recycled shall comply with the City's Construction and Demolition Debris Ordinance. Operation of the project would generate relatively minor waste through use of the park and recreation facilities and, therefore, would not affect the permitted capacity of the landfill serving the project area.

- | | | | | |
|------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| g) Comply with federal, state, and local statutes and regulation related to solid waste? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|

Refer to XVII.f. Any solid waste generated during construction related activities would be recycled or disposed of in accordance with all applicable local, state and federal regulations.

~~XVIII~~XIX. MANDATORY FINDINGS OF SIGNIFICANCE -

- | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|

As demonstrated by the biological survey reports prepared for the project, the proposed project has been re-designed to reduce potentially significant impacts to biological resources to a less than significant level by implementing the mitigation measures identified in Section V of the MND. In addition, the project is not located within or adjacent to the Multi Habitat Planning Area (MHPA) of the MSCP. With respect to cultural resources, the project has been determined to have less than significant impacts on archaeological and paleontological resources as stated in the Initial Study. Historical built-environment resources would not be significantly impacted by the project as stated in the Initial Study.

- | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable futures projects)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|

The City of San Diego MSCP Subarea Plan addresses cumulative impacts on biological resources throughout San Diego. Since the project mitigation measures identified in Section V of the MND are consistent with the requirements of the Subarea Plan, the proposed project would be consistent with the Subarea Plan. As a result, project implementation would not result in any individually limited, but cumulatively significant impacts to these resources. Based on the project's consistency with the Climate Action Plan it would not result in cumulatively considerable environmental impacts relative to greenhouse gas emissions.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- c) Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?

☐
☐
☒
☐

In addition, as evidenced by the Initial Study Checklist, no other substantial adverse effects on human beings, either indirectly or directly, would occur as a result of project implementation.

INITIAL STUDY CHECKLIST

REFERENCES

I. AESTHETICS / NEIGHBORHOOD CHARACTER

- ☒ City of San Diego General Plan; City of San Diego Land Development Municipal Code
- ☒ Community Plan.
- ☐ Local Coastal Plan.

II. AGRICULTURAL RESOURCES & FOREST RESOURCES

- ☒ City of San Diego General Plan.
- ☒ U.S. Department of Agriculture, Soil Survey - San Diego Area, California, Part I and II, 1973.
- ☐ California Agricultural Land Evaluation and Site Assessment Model (1997)
- ☐ Site Specific Report:

III. AIR QUALITY

- ☐ California Clean Air Act Guidelines (Indirect Source Control Programs) 1990.
- ☒ Regional Air Quality Strategies (RAQS) - APCD.
- ☐ Site Specific Report:

IV. BIOLOGY

- ☒ City of San Diego, Multiple Species Conservation Program (MSCP), Subarea Plan, 1997
- ☒ City of San Diego, MSCP, "Vegetation Communities with Sensitive Species and Vernal Pools" Maps, 1996.
- ☒ City of San Diego, MSCP, "Multiple Habitat Planning Area" maps, 1997.
- ☐ Community Plan - Resource Element.
- ☐ California Department of Fish and Game, California Natural Diversity Database, "State and Federally-listed Endangered, Threatened, and Rare Plants of California," January 2001.
- ☐ California Department of Fish & Game, California Natural Diversity Database, "State and Federally-listed Endangered and Threatened Animals of California," January 2001.
- ☒ City of San Diego Land Development Code Biology Guidelines.
- ☒ Site Specific Report: Biological Resources Letter Reports for the Guymon Street Pocket Park and Horton Joint Use Projects by Helix Environmental Planning, dated June 13, 2016.

V. CULTURAL RESOURCES (INCLUDES HISTORICAL RESOURCES)

☒ City of San Diego Historical Resources Guidelines.

☒ City of San Diego Archaeology Library.

☒ Historical Resources Board List.

☐ Community Historical Survey:

☐ Site Specific Reports:

VI. GEOLOGY/SOILS

☒ City of San Diego Seismic Safety Study.

☐ U.S. Department of Agriculture Soil Survey - San Diego Area, California, Part I and II, December 1973 and Part III, 1975.

☒ Site Specific Report(s): Final Reports of Geotechnical Investigation Guymon Street Pocket Park and Horton Joint Use Projects by Allied Geotechnical Engineers, Inc., dated August 17, 2016.

VII. GREENHOUSE GAS EMISSIONS

☒ City of San Diego Climate Action Plan, Adopted 2015

VIII. HAZARDS AND HAZARDOUS MATERIALS

☒ San Diego County Hazardous Materials Environmental Assessment Listing,

☐ San Diego County Hazardous Materials Management Division

☐ FAA Determination

☒ State Assessment and Mitigation, Unauthorized Release Listing, Public Use Authorized.

☒ Airport Land Use Compatibility Plan.

☐ Site Specific Report:

IX. HYDROLOGY/WATER QUALITY

☒ Flood Insurance Rate Map (FIRM).

☒ Federal Emergency Management Agency (FEMA), National Flood Insurance Program - Flood Boundary and Floodway Map.

☐ Clean Water Act Section 303(b) list, http://www.swrcb.ca.gov/tmdl/303d_lists.html).

☒ Site Specific Reports: Hydrology Reports and Water Quality Study BMP Reports for the Guymon Park and Horton Joint Use Projects by RRM Design Group, dated June 8, 2016.

X. LAND USE AND PLANNING

- ☒ City of San Diego General Plan.
- ☒ Community Plan.
- ☒ Airport Land Use Compatibility Plan
- ☒ City of San Diego Zoning Maps
- ☐ FAA Determination

XI. MINERAL RESOURCES

- ☐ California Department of Conservation - Division of Mines and Geology, Mineral Land Classification.
- ☐ Division of Mines and Geology, Special Report 153 - Significant Resources Maps.
- ☐ Site Specific Report:

XII. NOISE

- ☒ Community Plan
- ☐ San Diego International Airport - Lindbergh Field CNEL Maps.
- ☐ Brown Field Airport Master Plan CNEL Maps.
- ☒ Montgomery Field CNEL Maps.
- ☐ San Diego Association of Governments - San Diego Regional Average Weekday Traffic Volumes.
- ☒ San Diego Metropolitan Area Average Weekday Traffic Volume Maps, SANDAG.
- ☒ City of San Diego General Plan.
- ☐ Site Specific Report:

XIII. PALEONTOLOGICAL RESOURCES

- ☒ City of San Diego Paleontological Guidelines.
- ☐ Deméré, Thomas A., and Stephen L. Walsh, "Paleontological Resources City of San Diego," Department of Paleontology San Diego Natural History Museum, 1996.
- ☒ Kennedy, Michael P., and Gary L. Peterson, "Geology of the San Diego Metropolitan Area, California. Del Mar, La Jolla, Point Loma, La Mesa, Poway, and SW 1/4 Escondido 7 1/2 Minute Quadrangles," California Division of Mines and Geology Bulletin 200, Sacramento, 1975.

____ Kennedy, Michael P., and Siang S. Tan, "Geology of National City, Imperial Beach and Otay Mesa Quadrangles, Southern San Diego Metropolitan Area, California," Map Sheet 29, 1977.

____ Site Specific Report:

XIV. POPULATION / HOUSING

 X City of San Diego General Plan.

 X Community Plan.

____ Series 11 Population Forecasts, SANDAG.

____ Other:

XV. PUBLIC SERVICES

 X City of San Diego General Plan.

 X Community Plan.

XVI. RECREATIONAL RESOURCES

 X City of San Diego General Plan.

 X Community Plan.

 X Department of Park and Recreation

____ City of San Diego - San Diego Regional Bicycling Map

____ Additional Resources:

XVII. TRANSPORTATION / CIRCULATION

 X City of San Diego General Plan.

 X Community Plan.

____ San Diego Metropolitan Area Average Weekday Traffic Volume Maps, SANDAG.

____ San Diego Region Weekday Traffic Volumes, SANDAG.

____ Site Specific Report:

XVIII. UTILITIES

 X City of San Diego General Plan.

X Community Plan.

XIX. WATER CONSERVATION

X City of San Diego General Plan.

X Community Plan.

— Sunset Magazine, New Western Garden Book. Rev. ed. Menlo Park, CA: Sunset Magazine.

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
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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.

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 9 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

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.

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
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).

**Larry Gardner
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 (EXHIBIT A) Hydrant Meter

(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>	<u>T.B.</u>	<u>G.B. (CITY USE)</u>
Specific Use of Water:		
Any Return to Sewer or Storm Drain, If so, explain:		
Estimated Duration of Meter Use: <input type="text"/>	<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:	
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			

Fire Hydrant Meter Removal Request	Requested Removal Date:
<input type="checkbox"/>	
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

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123		Contractor's Name:	
Project Name:		Contractor's Address:	
Work Order No or Job Order No.			
City Purchase Order No.		Contractor's Phone #:	Invoice No.
Resident Engineer (RE):		Contractor's fax #:	Invoice Date:
RE Phone#:	Fax#:	Contact Name:	Billing Period: (to

Item #	Item Description	Contract Authorization				Previous Totals To Date		This Estimate		Totals to Date	
		Unit	Price	Qty	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
1					\$ -		\$ -		\$ -	0.00%	\$ -
2					\$ -		\$ -		\$ -	0.00%	\$ -
3					\$ -		\$ -		\$ -	0.00%	\$ -
4					\$ -		\$ -		\$ -	0.00%	\$ -
5					\$ -		\$ -		\$ -	0.00%	\$ -
6					\$ -		\$ -		\$ -	0.00%	\$ -
7					\$ -		\$ -		\$ -	0.00%	\$ -
8					\$ -		\$ -		\$ -	0.00%	\$ -
9					\$ -		\$ -		\$ -	0.00%	\$ -
10					\$ -		\$ -		\$ -	0.00%	\$ -
11					\$ -		\$ -		\$ -	0.00%	\$ -
12					\$ -		\$ -		\$ -	0.00%	\$ -
13					\$ -		\$ -		\$ -	0.00%	\$ -
14					\$ -		\$ -		\$ -	0.00%	\$ -
15					\$ -		\$ -		\$ -	0.00%	\$ -
16					\$ -		\$ -		\$ -	0.00%	\$ -
17	Field Orders				\$ -		\$ -		\$ -	0.00%	\$ -
18					\$ -		\$ -		\$ -	0.00%	\$ -
CHANGE ORDER No.					\$ -		\$ -		\$ -	0.00%	\$ -
					\$ -		\$ -		\$ -	0.00%	\$ -
Total Authorized Amount (including approved Change Order)					\$ -		\$ -		\$ -	Total Billed	\$ -

SUMMARY

A. Original Contract Amount	\$ -	I certify that the materials have been received by me in the quality and quantity specified Resident Engineer Construction Engineer
B. Approved Change Order #00 Thru #00	\$ -	
C. Total Authorized Amount (A+B)	\$ -	
D. Total Billed to Date	\$ -	
E. Less Total Retention (5% of D)	\$ -	
F. Less Total Previous Payments	\$ -	
G. Payment Due Less Retention	\$0.00	
H. Remaining Authorized Amount	\$0.00	

Retention and/or Escrow Payment Schedule

Total Retention Required as of this billing (Item E)	\$0.00
Previous Retention Withheld in PO or in Escrow	\$0.00
Add'l Amt to Withhold in PO/Transfer in Escrow:	\$0.00
Amt to Release to Contractor from PO/Escrow:	

Contractor Signature and Date: _____

APPENDIX E
LOCATION MAP

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SanGIS. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.

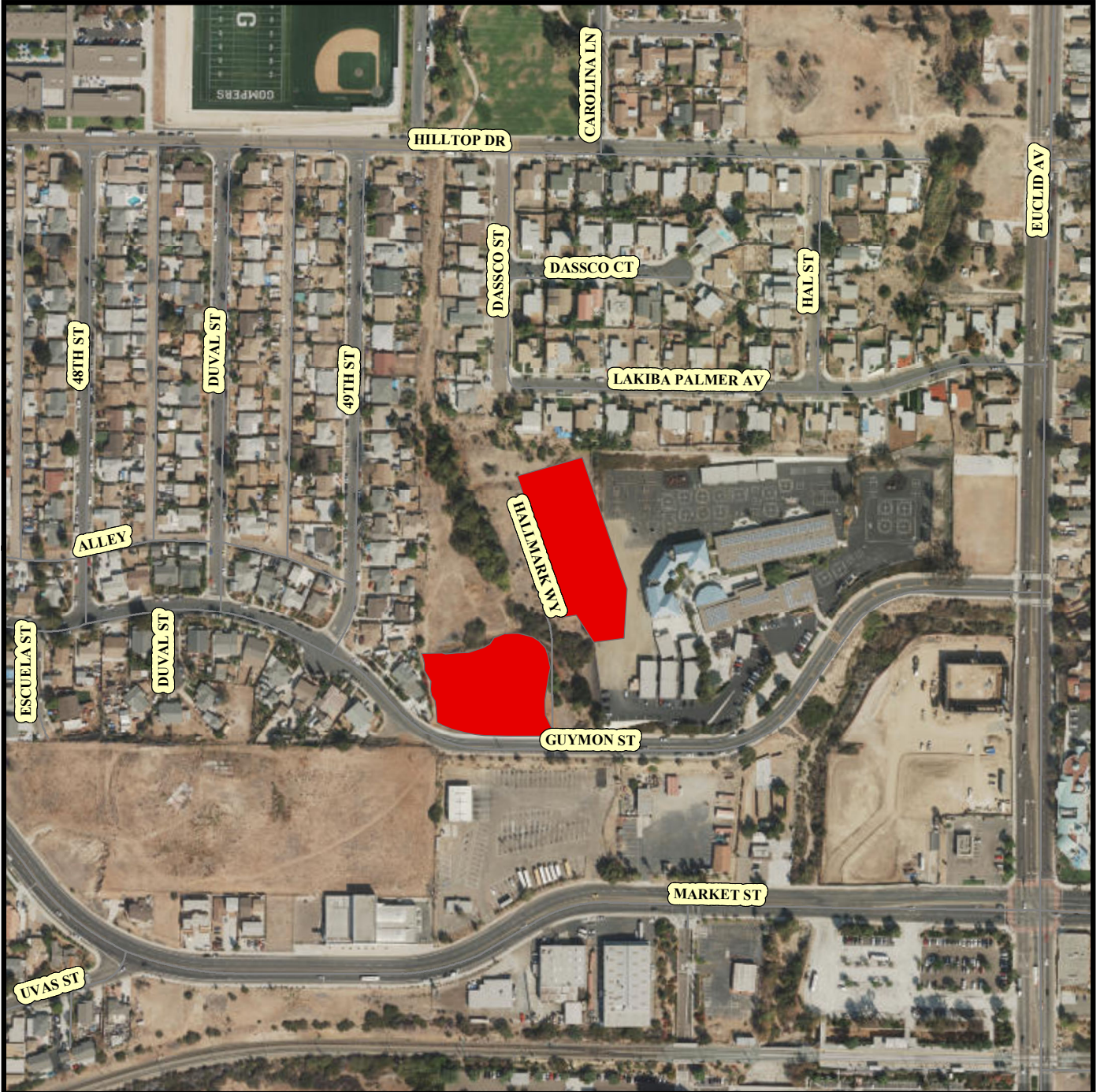
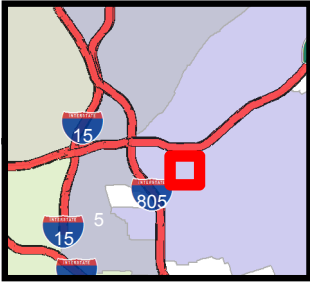
Guymon Neighborhood Park & Horton ES Joints Use Development

SENIOR ENGINEER
Samir Mahmalji
(619) 533-5301

PROJECT MANAGER
Jennifer Scott
(619) 533-5414

PROJECT ENGINEER
Rawsan Salha
(619) 533-5132

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



Legend

 S16045

Hawk Pocket Park Improvements (Formerly Guymon Park) Appendix E - Location Map



236 | Page

COMMUNITY NAME: Encanto Neighborhoods, Southeastern

Date: July 21, 2016

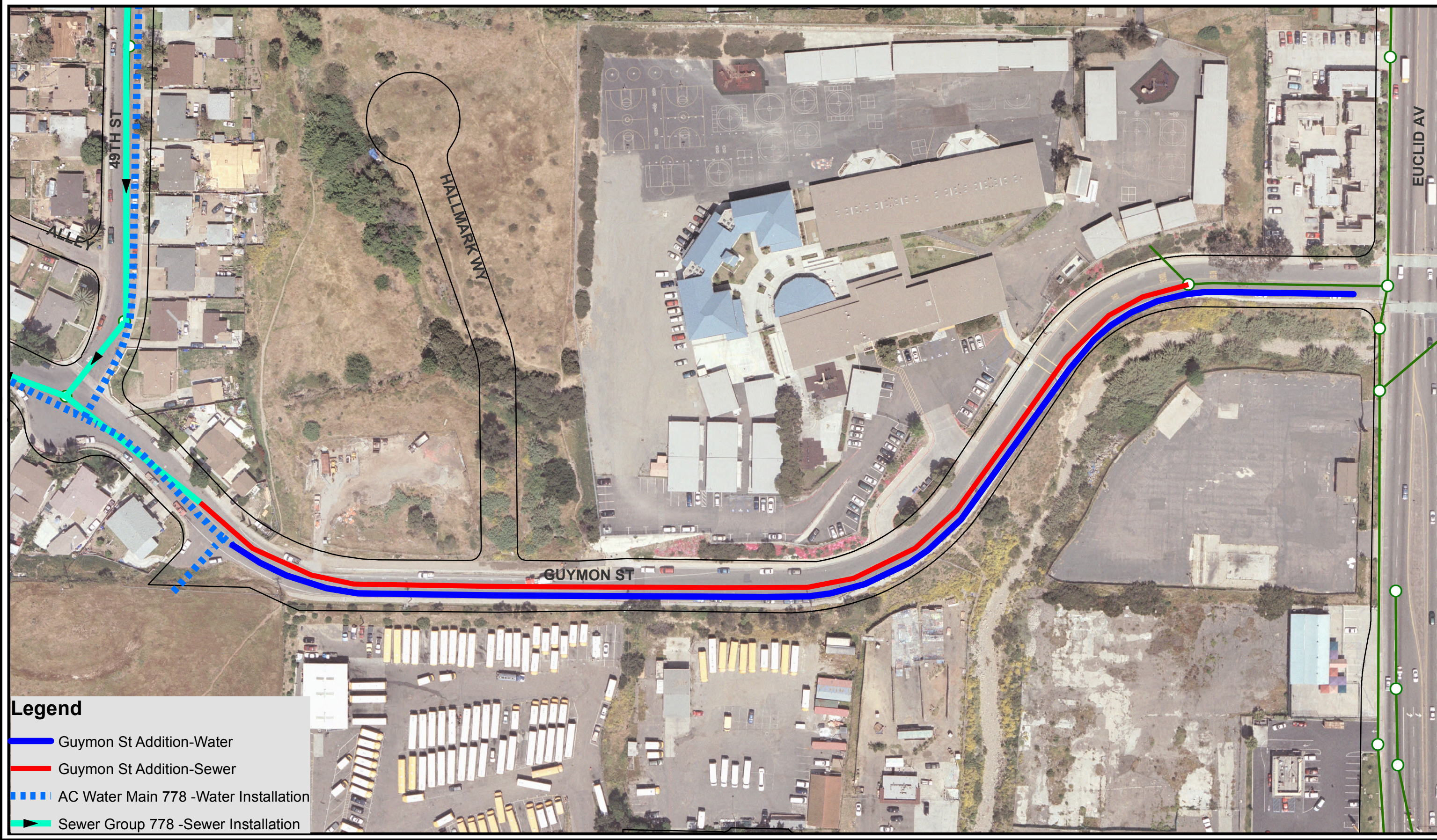
COUNCIL DISTRICT: 4



SAP ID: S16045

APPENDIX F
ADJACENT PROJECTS

Sewer & Water GJ 778 - Location Map



Legend

- Guymon St Addition-Water
- Guymon St Addition-Sewer
- AC Water Main 778 -Water Installation
- Sewer Group 778 -Sewer Installation



The City of
SAN DIEGO Public Works
Market St-47th to Euclid Ave Improvements
PRELIMINARY LOCATION MAP



Legend:

 **Market St - 47th to Euclid Ave Improvements**

PRELIMINARY
SENIOR ENGINEER
JOSEPH DIAB
(619) 533-4615

PRELIMINARY
PROJECT MANAGER
NAZIE MANSURY
(619) 533-3754

PRELIMINARY
PROJECT ENGINEER
RHEA VIDA
(619) 533-4645

PRELIMINARY
DRAFTER
MAAN KYESO
(619) 533-5086



APPENDIX G

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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- 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

APPENDIX H

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



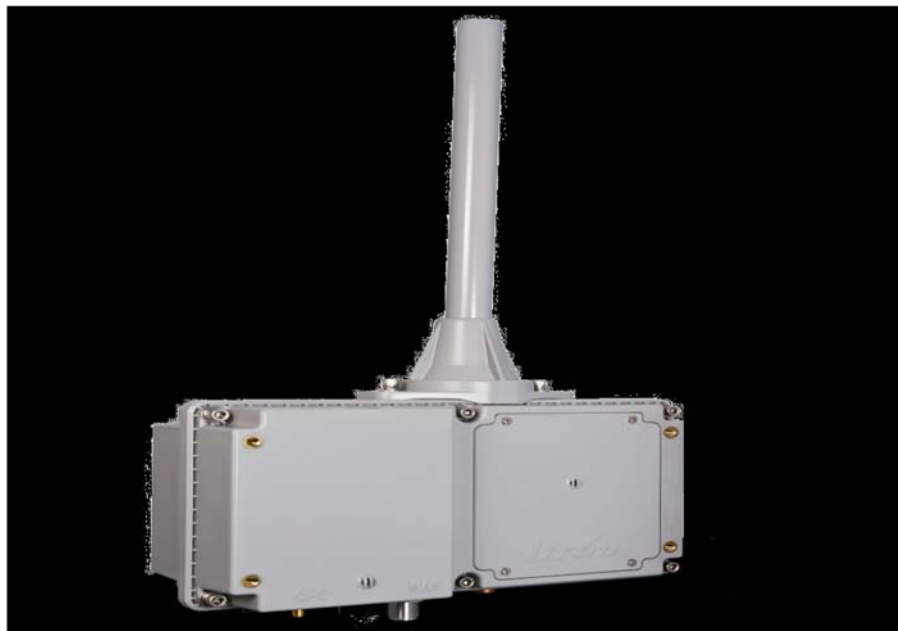
- B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:

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

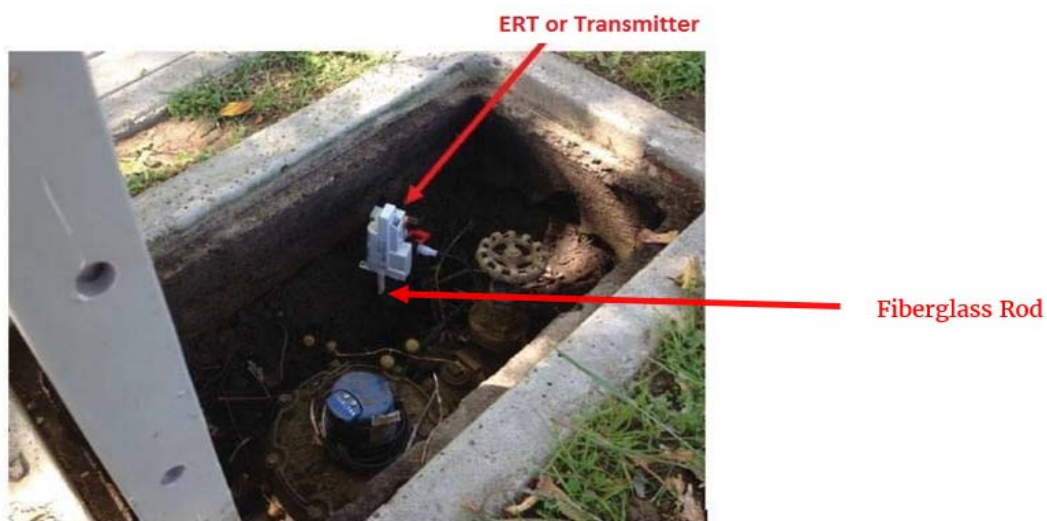


Photo 6 below is an example of disturbance that shall be avoided:

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.

ATTACHMENT F

INTENTIONALLY LEFT BLANK

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 _____, herein called "Contractor" for construction of **Guymon Neighborhood Park Improvements (Formerly Guymon Park)**; Bid No.**K-17-1531-DBB-3**; in the amount of _____ (\$ _____), which is comprised of the Base Bid plus/minus Additive/Deductive Alternates _____.

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 **Guymon Neighborhood Park Improvements (Formerly Guymon Park)**, on file in the office of the Public Works Department as Document No. **S-16045**, 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 **Guymon Neighborhood Park Improvements (Formerly Guymon Park)**; Bid No.**K-17-1531-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 Resolution No. R - _____ or _____ Municipal Code _____ authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

Mara W. Elliott, City Attorney

By _____

By _____

Print Name: _____
Mayor or designee

Print Name: _____
Deputy City Attorney

Date: _____

Date: _____

CONTRACTOR

By _____

Print Name: _____

Title: _____

Date: _____

City of San Diego License No.: _____

State Contractor's License No.: _____

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: _____

CERTIFICATIONS AND FORMS

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 certifications, forms and affidavits submitted as part of this bid 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 whose subcontracts are greater than \$50,000 in value 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.

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:

Guymon Neighborhood Park Improvements (Formerly Guymon Park)

(Name of Project or Task)

as particularly described in said contract and identified as Bid No. **K-17-1531-DBB-3**; SAP No. (WBS/IO/CC) **S-16045**; 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

COMPANY LETTERHEAD
CERTIFICATE OF COMPLIANCE

Materials and Workmanship Compliance

For Contract or Task _____

I certify that the material listed below complies with the materials and workmanship requirements of the Caltrans Contract Plans, Special Provisions, Standard Specifications, and Standard Plans for the contract listed above.

I also certify that I am an official representative for _____, the manufacturer of the material listed above. Furthermore, I certify that where California test methods, physical or chemical test requirements are part of the specifications, that the manufacturer has performed the necessary quality control to substantiate this certification.

Material Description:

Manufacturer: _____
Model: _____
Serial Number (if applicable) _____
Quantity to be supplied: _____
Remarks: _____

Signed by: _____

Printed Name: _____

Title: _____

Company: _____

Date: _____

City of San Diego
Public Works Department, Field Division

NOTICE OF MATERIALS TO BE USED

To: _____
Resident Engineer

Date: _____, 20____

You are hereby notified that the materials required for use under Contract No. _____
for construction of _____
_____ in the City of San Diego, will be obtained from sources herein designated.

CONTRACT ITEM NO. (Bid Item)	KIND OF MATERIAL (Category)	NAME AND ADDRESS WHERE MATERIAL CAN BE INSPECTED (At Source)

It is requested that you arrange for a sampling, testing, and inspection of the materials prior to delivery, in accordance with Section 4-1.11 of the WHITEBOOK, where it is practicable, and in accordance with your policy. It is understood that source inspection does not relieve the Contractor of full responsibility for incorporating in the work, materials that comply in all respects with the contract plans and specifications, nor does it preclude subsequent rejection of materials found to be undesirable or unsuitable.

Distribution:

Supplier

Signature of Supplier

Address

LIST OF SUBCONTRACTORS

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	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 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

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	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)

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACT OR 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 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.

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 _____ as Principal, and
_____ 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

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 _____ day of _____, 20____

(Principal) (SEAL)

(Surety) (SEAL)

By: _____
(Signature)

By: _____
(Signature)

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

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

Contractor Name: _____

Certified By _____ Title _____
Name

Signature Date _____

USE ADDITIONAL FORMS AS NECESSARY