

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**



ITEM: 13.3
(ID # 26228)

MEETING DATE:
Tuesday, November 05, 2024

FROM : Regional Parks and Open Space District

SUBJECT: REGIONAL PARKS AND OPEN SPACE DISTRICT: Approve Addendums to Plans and Specifications, Accept the Low Bid, and Award the Contract for the Hidden Valley Nature Center Modernization Project; Approve Allocation of American Rescue Plan Act (ARPA) Funds; District 2. [\$4,255,041 Total Project Cost – ARP Act Coronavirus Relief Fund 21735 94%; Park Acq & Dev, District Fund 33100 6%]

RECOMMENDED MOTION: That the Board of Directors:

1. Approve PKARC-278 Addendums No.1, No.2, No.3, No.4, No.5, No.6, and No.7, to the project bid documents issued prior to the Thursday, September 12, 2024, opening;

Continued on Page 2

ACTION:Policy


Kyla R. Brown, General Manager 10/20/2024

MINUTES OF THE BOARD OF DIRECTORS

On motion of Director Jeffries, seconded by Director Gutierrez and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Spiegel, Washington, Perez and Gutierrez
Nays: None
Absent: None
Date: November 5, 2024
xc: Parks

Kimberly A. Rector
Clerk of the Board

By: 
Deputy

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STATE OF CALIFORNIA**

RECOMMENDED MOTION: That the Board of Directors:

2. Waive any and all minor irregularities, and accept the low bid submitted by Wakeco, Inc. in the sum amount of \$3,801,449;
3. Award the contract for the Hidden Valley Nature Center Modernization Project to Wakeco, Inc. of Temecula, California, in the amount of \$3,801,449 and authorize the Chairman of the Board of Directors for the Regional Park and Open-Space District (RivCoParks) to execute the contract documents;
4. Authorize the Purchasing Agent to issue Purchase Orders to Wakeco, Inc. for construction services for the duration of the contract in the amount of \$3,801,449;
5. Authorize the use of \$1,076,147 from the Second District's ARPA allocation for the Hidden Valley Nature Center Modernization Project, which includes administrative costs;
6. Authorize the reallocation of \$345,300 in excess Rancho Jurupa Regional Park Paving Project ARPA Funds;
7. Authorize the reallocation of \$58,594 in excess Santa Ana River Trail (SART) Enhancements Project ARPA Funds;
8. Authorize the attached PKARC-278 Hidden Valley Nature Center Modernization Project Budget in the amount of \$4,255,041;
9. Authorize the General Manager, or their Designee, to approve and execute amendments to the Agreement that have been approved as to form by County Counsel, as required to complete the project that do not change the substantive terms of the agreement, or increase compensation more than ten percent (10%);
10. Approve and direct the Auditor-Controller to make budget adjustments as shown on Schedule A; and
11. Direct the Clerk of the Board to return two (2) executed copies of the Agreement to RivCoParks.

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost
COST	\$ 4,255,041	\$ 0	\$ 4,255,041	\$ 0
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0
SOURCE OF FUNDS: 94% ARPA Act Coronavirus Relief Fund 21735; 6% Park Acq & Dev, District Fund 33100			Budget Adjustment: YES	
			For Fiscal Year: 24/25	

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

Summary

By Minute Order 13.1 on July 9, 2024, the County of Riverside Board of Supervisors authorized the Clerk of the Board to advertise for the Hidden Valley Nature Center Modernization on July 15th and July 22nd, 2024.

Hidden Valley Nature Center and Wildlife Area is located along the Santa Ana River, east of Norco on Arlington Avenue. The Nature Center is set on 1,500 scenic acres. It has access to 25

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miles of hiking and equestrian trails including the Santa Ana River Trail and offers various educational programs on select weekends and by appointment. Programs offered include presentations about the Wetlands, Native Americans, Geology, and the Santa Ana River Watershed. Depending on the program selected, the program can include a hike, hands-on activities, creating crafts, games, and live animal presentations. The project improvements include a renovated ADA-compliant amphitheater, ADA-compliant walkways, new shade structures, a restroom building to accommodate the site and Santa Ana River Trail users, and a pavilion for events.

During the advertisement period, seven addendums were issued to all registered plan holders as a supplement to the plans and specifications. All seven addendums are attached as Addendum No.1, Addendum No.2, Addendum No.3, Addendum No.4, Addendum No.5, Addendum No.6, and Addendum No.7.

The project includes the following schedules for work:

Base Bid Schedule: Hidden Valley Nature Center Modernization

Alternate Bid Schedule 1: Wooden Shade Structure

Alternate Bid Schedule 2: Builders Risk Insurance

RivCoParks received ten bids on Thursday, September 12, 2024. Wakeco, Inc. was selected as the contractor with the lowest most responsive, and responsible base bid at \$3,295,448.43. Following the bid opening RivCoParks received a bid protest from ACT 1 Construction, Inc on September 16, 2024, which was immediately reviewed by legal counsel and RivCoParks staff. Based on RivCoParks' research and analysis of all the issues presented in the bid protest letter, and with the support of legal counsel, it was determined that RivCoParks and Wakeco, Inc. followed all requirements per the bidding documents and determined there was no merit to the bid protest, and therefore no grounds to reject Wakeco's lowest bid price to pay approximately \$820,551.57 more to award to Act 1 Construction.

RivCoParks accepts the bid prices submitted by Wakeco, Inc. for the Base Bid Schedule, Alternate Bid Schedule 1, and Alternate Bid Schedule 2. The Contractor is qualified to perform the work as outlined in the bid, has executed the contract, and has provided bonds and insurance documents.

Impact on Residents and Businesses

Due to the scope of the Project, RivCoParks will require a full closure of Hidden Valley Nature Center until completion of the project. The work is scheduled to begin in December 2024 and is expected to be completed by Summer 2025. This project will initially and temporarily impact Citizens by removing access to the Nature Center and surrounding area, however, the Project will enhance the quality of life for Riverside County residents by improving the Nature Center, amenities for trail users, and maintaining access to clean and safe outdoor recreational activities.

Additional Fiscal Information

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American Rescue Plan Act (ARPA) funds in the amount of \$2,500,000 were allocated to this project on November 28, 2023, by Minute Order 13.2. This project is partially funded by the Second District's ARPA allocation. RivCoParks is requesting an additional allocation of \$1,076,147 from the Second District's ARPA allocation to cover the gap in the overall Project budget, a reallocation of \$345,300 excess ARPA funds on the Rancho Jurupa Regional Park Paving Project approved on May 23, 2023, by Minute Order 13.5, and a second reallocation of \$58,594 excess ARPA funds on the Santa Ana River Trail (SART) Enhancements Project approved on May 23, 2023 by Minute Order 13.5.

Additionally, the Board of Supervisors approved a resolution on August 29, 2017, by Minute Order 13.5, authorizing the submission of a \$275,000 grant application to the State of California, Department of Parks and Recreation Outdoor Environmental Education Facilities Grant Program, which was received.

Overall, this project has an estimated budget of \$4,255,041 which includes costs for PS&E (5%), Administrative Costs (5%), Construction (78%), Allowance (12%), and Inspection (1%). Details on the Project budget can be found in the attached Project Budget Attachment.

Contract History and Price Reasonableness

RivCoParks received ten bids on Thursday, September 12, 2024. The basis of award was determined by the base bids which ranged from \$3,295,448 to \$5,470,000. Wakeco, Inc. was selected as the contractor with the lowest most responsive, and responsible base bid at \$3,295,448.43, this is approximately \$1.2 million (28%) below the engineer's cost estimate. Wakeco, Inc. also submitted a bid for Alternate Schedule 1 for \$365,448.43 and is included in the \$3,295,448 low bid amount. Wakeco, Inc. also submitted a bid for Alternate Schedule 2 for \$6,000 which the District has also accepted. The contract as presented for award includes an Owner Controlled Allowance of \$500,000. Collectively, the Base Bid (\$2,930,000), Alternate Schedule 1 (\$365,449.43), Alternate Schedule 2 (\$6,000), and the Owner Controlled Allowance (\$500,000) result in a total contract award of \$3,801,449.

ATTACHMENTS:

- Project Budget
- PKARC-276 Contract/Bonds/Insurance
- Summary of Bids
- Addendum 1
- Addendum 2
- Addendum 3
- Addendum 4
- Addendum 5
- Addendum 6
- Addendum 7
- Contractors Bid Proposal
- Schedule A

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Melissa Curtis
Melissa Curtis, Deputy Director of Purchasing and Fleet 10/21/2024

Douglas Ordóñez Jr.
Douglas Ordóñez Jr. 10/29/2024

Aaron Gettis
Aaron Gettis, Chief of Deputy County Counsel 10/24/2024

AGREEMENT

This agreement is made and entered into on the date of final signature hereto, by and between the Riverside County Regional Park and Open-Space District ("District") and **Wakeco, Inc.** ("**Contractor**") ("**Agreement**"). The District and the Contractor agree as follows:

The Work: Contractor shall furnish all tools, equipment, apparatus, facilities, labor, and material necessary to perform and complete in a good and workmanlike manner, the work of the following project:

Hidden Valley Nature Center Modernization ("Project" or "Contract" or "Work")

The Work shall be performed and completed as required in the Contract Documents as defined in the General Conditions including, without limitation, the Drawings and Specifications, under the direction and supervision of, and subject to, the approval of the District or its authorized representative.

Classification of Contractor's License: Contractor hereby acknowledges that it currently holds valid Type A,B Contractor's license(s) issued by the State of California, Contractor's State Licensing Board, in accordance with division 3, chapter 9, of the Business and Professions Code and in the classification called for in the Contract Documents.

Time for Completion: It is hereby understood and agreed that the Contractor shall complete the Work within **two hundred sixty-five (265)** consecutive calendar days ("Contract Time") from the date specified in the District's Notice to Proceed. The District shall not approve an early completion schedule by Contractor. A schedule showing the Work completed in less than the Contract Time indicated in the Contract, shall be considered to have Project Float.

Contract Price: In consideration of the foregoing covenants, promises, and agreements, Contractor offers, in the amounts stated below, to perform the Work according to the Contract Documents. District covenants, promises, and agrees that it will pay and cause to be paid to Contractor in full, and as the Contract Price the following amount(s):

Base Contract Amount (Including Alternates 1 & 2):

	3	,	3	0	1	,	4	4	8	.	4	3
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Dollars Cents

+ Allowance 1 Owner Controlled Allowance as per Bid Form, including up to 5 calendar days.

		,	5	0	0	,	0	0	0	.	0	0
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Dollars Cents

= Total Contract Price

	3	,	8	0	1	,	4	4	8	.	4	3
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Dollars Cents

THE ABOVE ALLOWANCES, IF ANY, ARE WITHIN THE CONTRACT PRICE ONLY TO THE EXTENT CONTRACTOR HAS BEEN AUTHORIZED IN WRITING TO PERFORM WORK ENCOMPASSED BY THE ALLOWANCE DESCRIPTION, HAS PERFORMED THE WORK AND HAS APPROPRIATELY INVOICED FOR THAT WORK, AND DISTRICT HAS APPROVED CONTRACTOR'S INVOICE. USE OF ALLOWANCE(S) SHALL FOLLOW THE PROCESS AND THE IDENTICAL STRUCTURE AS A CHANGE ORDER. THE UNUSED PORTION OF ALLOWANCE(S) SHALL BE RETAINED BY THE DISTRICT AND MAY BE CLOSED BY A UNILATERAL CHANGE ORDER.

The Base Contract Price and authorized use of allowances shall be paid in lawful money of the United States pursuant to the payment provisions in the General Conditions.

The Contract Documents: The complete Contract consists of all Contract Documents as defined in the General Conditions and incorporated herein by this reference. All obligations of the District and Contractor are fully set forth and described in the Contract Documents. The Contract Documents are intended to cooperate so that Work called for in one and not mentioned in the other or vice versa is to be performed the same as if mentioned in all Contract Documents.

Interpretation of Contract Documents/Order of Precedence: Questions concerning the intent, precedence, or meaning of the Contract Documents, including the Drawings or Specifications, shall be submitted to the District for interpretation. Inconsistencies in the Contract Documents shall be resolved by giving precedence in the following order:

- (i) District-approved modifications (e.g., Change Orders, Force Account Directives, etc.), beginning with the most recent (if any);
- (ii) Agreement;
- (iii) Special Conditions (if any);
- (iv) Supplemental Conditions (if any);
- (v) General Conditions;
- (vi) Remaining Division 0 documents (Documents beginning with "00");
- (vii) Division 1 Documents (Documents beginning with "01");
- (viii) Division 2 through Division 49 documents (Technical Specifications);
- (ix) Figured dimensions;
- (x) Large-scale drawings;
- (xi) Small-scale drawings.

In case of conflict, the greater quantity and/or higher standard of workmanship shall apply unless the District expressly in writing (e.g., via a Change Order) accepts a lesser quantity or lower quality of workmanship and the Contract Price is adjusted accordingly. The decision of the District in the matter shall be final.

Integration / Modification. The Contract Documents and any documents specifically incorporated by reference are completely integrated as the complete and exclusive statement of the terms of the Agreement. This Agreement supersedes all previous contracts, agreements, and / or communications, both oral and written, and constitutes the entire understanding of the District and Contractor. No extrinsic evidence whatsoever shall be admissible or used to explain or supplement the terms of the Contract, Contract Documents, or any items incorporated by reference. No changes, amendments or alterations shall be effective unless in writing, signed by both Parties, and unless provided otherwise by the Contract Documents.

Completion-Extension of Time: If Contractor fails to complete the Work within the Contract Time, due allowance being made for the contingencies provided for herein, Contractor shall become liable to District for all loss and damage that District may suffer on account thereof. Contractor shall coordinate its Work with the work of all other contractors. The District shall not

be liable for delays resulting from Contractor's failure to coordinate its Work with other contractors in a manner that allows for timely completion of Contractor's Work. Contractor shall be liable for delays to other contractors caused by Contractor's failure to coordinate its Work with the work of other contractors.

Liquidated Damages: Time is of the essence for all Work to be performed. It is hereby understood and agreed that it is and will be difficult and/or impossible to ascertain and determine the actual damage that District will sustain in the event of and by reason of Contractor's delay; therefore, pursuant to Government Code section 53069.85 and Public Contract Code section 7203, Contractor shall forfeit and pay to District the sums as indicated in the Special Conditions ("**Liquidated Damages**").

Use of Unit Prices and Bid Alternates: The District may, at its sole discretion, increase or decrease the Contract Price by unit prices or alternates contained in Contractor's original bid. If the Bid for the Work included proposal(s) for Alternate Bid Item(s), during Contractor's performance of the Work, the District may elect to add any such Alternate Bid Item(s) if the item did not form a basis for award of the Agreement or delete any such Alternate Bid Item(s) if that item formed a basis for award of the Agreement. If the District elects to add or delete an Alternate Bid Item(s) pursuant to the foregoing, the cost or credit for that Alternate Bid Item(s) shall be as set forth in the Contractor's Bid, at the District's discretion. If any Alternate Bid Item is added or deleted from the Work pursuant to the foregoing, the Contract Time shall be adjusted by the number of days allocated for the added or deleted Alternate Bid Item in the Contract Documents; if days are not allocated for any Alternate Bid Item added or deleted pursuant to the foregoing, the Contract Time shall be equitably adjusted.

Insurance and Bonds: Contractor shall provide all required certificates of insurance, and payment and performance bonds.

Performance of Work: If Contractor fails to perform the Work properly or fails to perform any provisions of this Contract, the District, may, pursuant to the General Conditions and without prejudice to any other remedy it may have, cure the deficiencies and deduct the cost thereof from the payment then or thereafter due Contractor.

COVID-19. Contractor is responsible for complying with all applicable and existing federal, state, and/or local statutes, orders, rules, regulations, ordinances, and/or directives relating to construction site safety in connection with COVID-19, and/or any similar virus or derivative strain. Contractor shall ensure it has supervisor employees onsite that are trained and knowledgeable of all of these requirements to ensure full compliance on Project Site(s).

Authority of District, Architect, Project Inspector, and County Permitting Entity:

Contractor hereby acknowledges that the District, Architect(s), the Project Inspector(s), and the County Permitting Entity as applicable to this Project have authority to approve and/or stop Work if Contractor's Work does not comply with the requirements of the Contract Documents, Title 24 of the California Code of Regulations, and all applicable laws. Contractor shall be liable for any delay caused by its non-compliant Work.

Assignment of Contract: Neither the Contract, nor any part thereof, nor any moneys due or to become due thereunder, may be assigned by Contractor without the written approval of District, nor without the written consent of the Surety on Contractor's Performance Bond (the "Surety"), unless the Surety has waived in writing its right to notice of assignment.

Payment of Prevailing Wages: Contractor and all Subcontractors under Contractor shall pay all workers on Work performed pursuant to this Contract not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the

type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code.

Contractor & Subcontractor Registration: Contractor shall comply with the registration and compliance monitoring provisions of Labor Code section 1771.4, including complying with any applicable enforcement by the Department of Industrial Relations.

Authority of Contractor's Representatives: Contractor hereby certifies that the person who executes this Agreement has the authority and power to legally bind the Contractor. Contractor also certifies that the person(s) it employees on the Project at or above the level of project superintendent, each have the authority to legally bind the Contractor.

Severability: If any term, covenant, condition, or provision of the Contract Documents is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remainder of the provisions in the Contract Documents shall remain in full force and effect and shall in no way be affected, impaired, or invalidated thereby.

*Signatures are on the next page.
Balance of page intentionally left blank.*

IN WITNESS WHEREOF, accepted and agreed on the date indicated above:

Wakeco, Inc.	Riverside County Regional Park and Open-Space District
_____ Contractor	_____ District
09/17/2024 _____ Date	October 28, 2024 _____ Date
 _____ Signature	 _____ Signature
Gavin Wakefield _____ Print Name	Kyla Brown _____ Print Name
CFO _____ Print Title	General Manager _____ Print Title

NOTE: If the Contractor is a corporation, Contractor must attach a certified copy of the corporation's by-laws, or of the resolution of the Board of Directors of the corporation, authorizing the above person to execute this Agreement and the bonds required by the Contract Documents.

END OF AGREEMENT

FORM APPROVED COUNTY COUNSEL
BY 
KRISTINE BELL-VALDEZ DATE


KEVIN JEFFRIES

CHAIR, BOARD OF SUPERVISORS

ATTEST:
KIMBERLY A. RECTOR, Clerk

By 
DEPUTY

Project Budget

Riverside County Regional Park and Open-Space District

Project: Hidden Valley Nature Center Modernization Project

Project No.: PKARC-278

	Budget	Percent
PS&E \$	195,093.00	5%
Administrative \$	220,000.00	5%
Construction \$	3,301,448.00	78%
Allowance \$	500,000.00	12%
Inspector \$	38,500.00	1%
TOTAL COSTS \$	4,255,041.00	100%



Project:	Bid No: PKARC-278				
Hidden Valley Nature Center Modernization		Bid Date:	9/12/2024		
Post-Bid Questions/Protest Email:	Parks-Planning@RivCo.org				

COMPANY	Rank: Base + Alt 1	BASE BID	ALTERNATE 1 (Wood shade)	Basis of Low Bidder Base + Alt 1	ALTERNATE 2 (Bldrs Risk)
Wakeco Inc.	1	\$ 2,930,000.00	\$ 365,448.43	\$ 3,295,448.43	\$ 6,000.00
Act 1 Construction, Inc.	2	\$ 3,572,289.00	\$ 543,711.00	\$ 4,116,000.00	\$ 65,000.00
RG General Engineering, Inc.	3	\$ 3,621,984.00	\$ 640,087.00	\$ 4,262,071.00	\$ 10,000.00
Caliba Inc	4	\$ 4,033,000.00	\$ 374,000.00	\$ 4,407,000.00	\$ 30,000.00
Tovey/Shultz Construction, Inc.	5	\$ 3,770,640.00	\$ 767,764.00	\$ 4,538,404.00	\$ 13,228.00
Kashan Group	6	\$ 3,861,000.00	\$ 700,000.00	\$ 4,561,000.00	\$ 40,000.00
Three Peaks Corp.	7	\$ 4,136,402.00	\$ 590,199.00	\$ 4,726,601.00	\$ 16,620.00
Roadway Engineering & Construction Corp.	8	\$ 4,394,400.00	\$ 350,000.00	\$ 4,744,400.00	\$ 21,000.00
Kya Services, LLC	9	\$ 4,515,600.00	\$ 494,400.00	\$ 5,010,000.00	\$ 14,196.00
RT Contractor Corp	10	\$ 5,075,000.00	\$ 395,000.00	\$ 5,470,000.00	\$ 15,000.00



Riverside County Regional Park and Open-Space District

Kyla Brown, Parks Director / General Manager

ADDENDUM #1

Bid No. PKARC-278 HIDDEN VALLEY NATURE CENTER MODERNIZATION

July 15, 2024

Addendum documentation:	1 Page, 1 item
8 1/2" x 11" Addendum Drawings	0 Drawings
30" x 42" Addendum Sheet Drawings	0 Sheets
Specification Sections	None

The following is issued to supplement or revise the Contract Documents. The revisions to the documents are described below. Unless specifically changed by this addendum, the remainder of the drawings, documents, and specifications shall remain in effect as originally issued. It is the obligation of the contractor to make subcontractors aware of this addendum.

General Note: Any dates and times originally published by the Riverside County Board of Supervisors are subject to change. Changes are reflected in the bid documents and any addenda that may be issued thereto.

GENERAL & BID DOCUMENTS:

PROJECT BID DELAY ALERT:

Please note that the project documents will not be available until approximately mid- to late-August.

PLEASE SUBSCRIBE to the Opportunity in SecureBids at this link <https://colbisecurebids.com/o/RivCoParks/278HiddenVNC> so that when bid documents are posted you will be notified.

ALL DATES advertised shall be adjusted by an addendum to provide for close to a 3-week bid period once documents are issued.

Thank you for your interest in this project.

END OF ADDENDUM 1





Riverside County Regional Park and Open-Space District

Kyla Brown, Parks Director / General Manager

ADDENDUM #2

Bid No. PKARC-278 HIDDEN VALLEY NATURE CENTER MODERNIZATION

August 9, 2024

Addendum documentation:

2 Pages, 5 items

Plus initial issuance of all plans, specifications, project manual, bid documents and reference documents.

The following is issued to supplement or revise the Contract Documents. The revisions to the documents are described below. Unless specifically changed by this addendum, the remainder of the drawings, documents, and specifications shall remain in effect as originally issued. It is the obligation of the contractor to make subcontractors aware of this addendum.

General Note: Any dates and times originally published by the Riverside County Board of Supervisors are subject to change. Changes are reflected in the bid documents and any addenda that may be issued thereto.

GENERAL & BID DOCUMENTS:

1. The project manual including the bid documents, plans, specifications, and reference documents for this Project are hereby issued.

Please note the updated bid schedule in the Project Manual.

2. PLEASE **SUBSCRIBE** TO THE OPPORTUNITY IN SECURE BIDS SO YOU WILL BE NOTIFIED OF ANY FUTURE ADDENDA OR OTHER UPDATES ON THIS PROJECT.

<https://colbisecurebids.com/o/RivCoParks/278HiddenVNC>

3. The Project description has been modified from the original advertisement. It now reads as follows: The Project is generally described as: New prefabricated restroom with septic system, shade structure, concrete raised seating & site work.
4. Alternates: The draft plans contained 2 additional alternates. Just in case a reference to them was missed, this is the status of each:
 - a) Additive Alternate #2: The original Alternate #2 was to add a northwest corner wall. The wall has been removed and is not in contract. We are now using Alternate #2 for Builders Risk.
 - b) Additive Alternate #3: Color match concrete. This scope has been moved into the base bid and is no longer an Alternate.



5. Note that the septic system plans will be modified and those modified plans and specifications will be issued via an addendum soon.

SPECIFICATIONS:

#	Specification Full Reference	Change
1	Initial issuance of specifications except for septic system.	N/A

PLANS:

#	Plan Sheet Full Reference	Change
1	Initial issuance of plans.	N/A

END OF ADDENDUM 2



Riverside County Regional Park and Open-Space District

Kyla Brown, Parks Director / General Manager

ADDENDUM #3

Bid No. PKARC-278 HIDDEN VALLEY NATURE CENTER MODERNIZATION

August 16, 2024

Addendum documentation:	45 total 8.5 x 11 Pages, 2 items
8 1/2" x 11" Addendum Drawings	4 Pages
24" x 36" Addendum Drawings	2 Sheets See Separate file PKARC-278 Hidden Valley Addendum 3 PLANS.pdf
Specification Sections	6 Specs - 39 pages

The following is issued to supplement or revise the Contract Documents. The revisions to the documents are described below. Unless specifically changed by this addendum, the remainder of the drawings, documents, and specifications shall remain in effect as originally issued. It is the obligation of the contractor to make subcontractors aware of this addendum.

General Note: Any dates and times originally published by the Riverside County Board of Supervisors are subject to change. Changes are reflected in the bid documents and any addenda that may be issued thereto.

GENERAL & BID DOCUMENTS:

1. Specifications have been added as shown in the table below titled "Specifications".
2. New drawings and drawing detail revisions have been issued as shown in the table below titled "Plans".

SPECIFICATIONS:

#	Specification Full Reference	Change
1	33 01 32	Add new specification in its entirety
2	33 31 00	Add new specification in its entirety
3	33 34 51	Add new specification in its entirety
4	33 36 13.13	Add new specification in its entirety
5	33 36 13.14	Add new specification in its entirety
6	33 39 00	Add new specification in its entirety



PLANS:

#	Plan Sheet Full Reference	Change
1	SS-2 – Septic System	New drawing sheet outlining new septic system at existing bldg.
2	SP-3 – Civil Site Plan	New drawing sheet detailing septic system at existing bldg.
3	Sheet Revision 1 of 4	Landscape Sheet LC-1 updated area of concrete to be replaced
4	Sheet Revision 2 of 4	Landscape Sheet LC-2 updated Finish Surface Qty.
5	Sheet Revision 3 of 4	Landscape Sheet LD-1 updated area of concrete to be demolished
6	Sheet Revision 4 of 4	Landscape Sheet LD-2 updated concrete qty. to be demolished.

END OF ADDENDUM 3

SECTION 33 01 32

PIPELINE TESTING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Testing Gravity Piping:
 - a. Low-pressure Air Test.
 - b. Infiltration Test.
 - 2. Hydrostatic Testing of Pressure Pipe
 - 3. Deflection Testing Plastic Piping.
- B. Related Sections:
 - 1. Section 33 41 00 – Utility Piping.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM C924 – Standard Practice for Testing Concrete Pipe Sewer Lines by Low-Pressure Air Test Method.
 - 2. ASTM D2122 - Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings.
 - 3. ASTM F1417 – Standard Test Method for Installation Acceptance of Plastic Storm Drain Lines Using Low-Pressure Air.

1.3 SUBMITTALS

- A. Submit the following prior to start of testing:
 - 1. Testing procedures.
 - 2. List of test equipment.
 - 3. Testing sequence schedule.
 - 4. Provisions for disposal of flushing and test water.
 - 5. Certification of test gauge calibration.

- 6. Deflection mandrel drawings and calculations.
- B. Test Reports: Indicate results of piping tests.

PART 2 PRODUCTS

2.1 AIR TEST EQUIPMENT

- A. Air compressor.
- B. Air supply line.
- C. Shut-off valves.
- D. Pressure regulator.
- E. Pressure relief valve.
- F. Stop watch.
- G. Plugs.
- H. Pressure gauge, calibrated to 0.1 psi.

2.2 INFILTRATION TEST EQUIPMENT

- A. Weirs.

2.3 HYDROSTATIC TEST EQUIPMENT

- A. Hydro pump.
- B. Pressure hose.
- C. Water meter.
- D. Test connections.
- E. Pressure relief valve.
- F. Pressure gauge, calibrated to 0.1 psi.

2.4 DEFLECTION TEST EQUIPMENT

- A. Go, No-Go mandrels.
- B. Pull/retrieval ropes.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify piping is ready for testing.
- B. Verify trenches are backfilled.
- C. Verify pressure piping concrete reaction support blocking or mechanical restraint system is installed.

3.2 PIPING PREPARATION

- A. Lamping:
 - 1. Lamp gravity piping after flushing and cleaning.
 - 2. Perform lamping operation by shining light at one end of each pipe section between manholes; observe light at other end; reject pipe not installed with uniform line and grade; remove and reinstall rejected pipe sections; re-clean and lamp until pipe section achieves uniform line and grade.
- B. Plug outlets, wye-branches and laterals; brace plugs to resist test pressures.

3.3 FIELD QUALITY CONTROL

- A. Testing Gravity Piping shall be performed on all gravity piping (sewer and storm drain):
 - 1. Low-pressure Air Test:
 - a. Test each section of gravity piping between manholes.
 - b. Introduce air pressure slowly to approximately 4 psig.

- 1) Determine ground water elevation above spring line of pipe for every foot of ground water above spring line of pipe, increase starting air test pressure by 0.43 psig; do not increase pressure above 10 psig.
- c. Allow pressure to stabilize for at least five minutes. Adjust pressure to 3.5 psig or increased test pressure as determined above when ground water is present. Start test.
- d. Test:
- 1) Determine test duration for pipe section with single pipe size from the following table. Do not make allowance for laterals.

TABLE 2 1 Minimum Specified Time Required for a 0.5 psig Pressure Drop for Size and Length of Pipe Indicated for Q = 0.0015

NOTE-Consult with pipe and appurtenance manufacturer for maximum test pressure for pipe size greater than 30 in. in diameter.

Pipe Diameter, in.	Minimum Time, min : s	Length for Minimum Time, ft	Time for Longer Length, s	Specification Time for Length (L) Shown, min:s								
				100 ft	150 ft	200 ft	250 ft	300 ft	350 ft	400 ft	450 ft	
4	1:53	597	0.190 L	1:53	1:53	1:53	1:53	1:53	1:53	1:53	1:53	1:53
6	2:50	398	0.427 L	2:50	2:50	2:50	2:50	2:50	2:50	2:50	2:51	3:12
8	3:47	298	0.760 L	3:47	3:47	3:47	3:47	3:48	4:26	5:04	5:42	
10	4:43	239	1.187 L	4:43	4:43	4:43	4:57	5:56	6:55	7:54	8:54	
12	5:40	199	1.709 L	5:40	5:40	5:42	7:08	8:33	9:58	11:24	12:50	
15	7:05	159	2.671 L	7:05	7:05	8:54	11:08	13:21	15:35	17:48	20:02	
18	8:30	133	3.846 L	8:30	9:37	12:49	16:01	19:14	22:26	25:38	28:51	
21	9:55	114	5.235 L	9:55	13:05	17:27	21:49	28:11	30:32	34:54	39:16	
24	11:20	99	6.837 L	11:24	17:57	22:48	28:30	34:11	39:53	45:35	51:17	
27	12:45	88	8.653 L	14:25	21:38	28:51	36:04	43:18	50:30	57:42	64:54	
30	14:10	80	10.683 L	17:48	26:43	35:37	44:31	53:25	62:19	71:13	80:07	
33	15:35	72	12.926 L	21:33	32:19	43:56	53:52	64:38	75:24	86:10	96:57	
36	17:00	66	15.384 L	25:39	38:28	51:17	64:06	76:55	89:44	102:34	115:23	

- 2) Record drop in pressure during test period; when air pressure has dropped more than 1.0 psig during test period, piping has failed; when 1.0 psig air pressure drop has not occurred during test period, discontinue test and piping is accepted.
- 3) When piping fails, determine source of air leakage, make corrections and retest; test section in incremental

stages until leaks are isolated; after leaks are repaired, retest entire section between manholes.

2. Infiltration Test:

- a. Use only when gravity piping is submerged in ground water minimum of 4 feet above crown of pipe for entire length being tested.
- b. Maximum Allowable Infiltration: 100 gallons per inch of pipe diameter for each mile per day for section under test, include allowances for leakage from manholes. Perform test with minimum positive head of 2 feet.

B. Deflection Testing of Plastic Pipe:

1. Perform vertical ring deflection testing on PVC piping, after backfilling has been in place for at least 30 days but not longer than 12 months.
2. Allowable maximum deflection for installed plastic pipe limited to 5 percent of original vertical internal diameter.
3. Perform deflection testing using properly sized rigid ball or 'Go, No- Go' mandrel.
4. Furnish rigid ball or mandrel with diameter not less than 95 percent of base or average inside diameter of pipe as determined by ASTM standard to which pipe is manufactured. Measure pipe in compliance with ASTM D2122.
5. Perform test without mechanical pulling devices.
6. Locate, excavate, replace and retest pipe exceeding allowable deflection.

C. Dewater Pipeline After Testing:

1. After completion of testing and acceptance of pipe line – dewater pipeline and leave in a dry condition.

PART 4 MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

A. Pipeline testing shall not be measured for separate payment.

4.2 PAYMENT

A. Full compensation for pipeline testing shall be considered as included in the price paid for the various items of work requiring Pipeline Testing, and no additional compensation will be allowed therefor.

END OF SECTION 33 01 32

SECTION 33 36 13.13

CONCRETE SEPTIC TANKS – EXISTING NATURE CENTER

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Modular precast concrete septic tanks, cover frame, covers, anchorage, and accessories.
 - 2. Concrete Grade Ring.
 - 3. Bedding and cover materials.
 - 4. Septic tank outlet filters

- B. Related Sections:
 - 1. Section 31 23 16 and 31 23 23.13 – Excavation and Backfill
 - 2. Section 33 31 00 – Sanitary Utility Sewerage Piping

1.2 REFERENCES

- A. American Concrete Institute:
 - 1. ACI 530/530.1 - Building Code Requirements for Masonry Structures and Specifications for Masonry Structures.

- B. ASTM International:
 - 1. ASTM A48/A48M - Standard Specification for Gray Iron Castings.
 - 2. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - 3. ASTM C361 - Standard Specification for Reinforced Concrete Low-Head Pressure Pipe.
 - 4. ASTM C913 - Standard Specification for Precast Concrete Water and Wastewater Structures.
 - 5. ASTM C923 - Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes and Laterals.

6. ASTM C990 – Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants
 7. ASTM C1227 – Standard Specification for Precast Concrete Septic Tanks
 8. ASTM D1557 – Standard Test Methods for Laboratory Compaction Characteristics of Soil
- C. This Technical Specification makes references to the Standard Specifications for Public Works Construction (“Greenbook” or SSPWC).

1.3 SUBMITTALS

- A. Shop Drawings: Indicate structure locations, elevations, sizes and elevations of penetrations.
- B. Design Calculations: signed and stamped by a professional engineer licensed in the State of California. Calculations shall show that structure can withstand groundwater and hydrostatic force, seismic forces, and load rating (H-20) for each structure as indicated on the drawings.
- C. Product Data: Submit manhole/riser covers, component construction, features, configuration, and dimensions.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Comply with precast concrete manufacturer’s instructions for unloading, storing and moving precast septic tanks.
- B. Mark each precast structure by indentation or waterproof paint showing date of manufacture, manufacturer, and identifying symbols and numbers shown on Drawings to indicate its intended use.

PART 2 PRODUCTS

2.1 CONCRETE SEPTIC TANKS

- A. The following are the accepted methods for Precast Septic Tanks Sections:
1. Reinforced precast concrete in accordance with ASTM C478 with gaskets in accordance with ASTM C923.
 2. Precast reinforced concrete septic tanks shall conform to American Society for Testing and Materials (ASTM) "Standard Specification for Precast Concrete Septic Tanks C-1227-10a" and with current edition of the UPC and IAPMO certified.
 3. Materials (ASTM) "Standard Specification for Precast Concrete Septic Tanks C-1227-10a"
 4. Precast concrete sections shall be sealed with one inch butyl rubber joint sealant which conforms to ASTM C990.
 - a. Manufacturers:
 - 1) Jensen Precast
 - 2) Procast
 - 3) Oldcastle Precast
 - 4) Or approved equal.
- B. Description:
- 1) Capacity: 1500 gallons.
 - 2) Design: Comply with ASTM C890 for live loading and installation conditions.
 - 3) Fabrication:
 - a) Comply with ASTM C1227.
 - b) Reinforced and air-entrained concrete.
 - c) Watertight.

2.2 FRAMES AND COVERS

- A. Product Description: Solid covers for AASHTO HS-20 rated structures as indicated on the Plans.
- B. Manhole or access riser frames shall have two concentric covers, made of cast-iron in accordance with ASTM A48 Class 30. Covers shall incorporate a "pic-hole" for lifting purposes.

- C. Casting shall be smooth, clean, and free from blisters, blowholes, and shrinkage. Mating surfaces of the frame and cover shall be machined smooth and true to prevent rocking and lateral movement of the lid. Frames and covers shall be match marked in sets before shipping to the site.

2.3 EFFLUENT FILTERS

- A. Product Description: Removable filter that restricts discharge solids to a specified size (1/16”).
- B. Design: An effluent filter rated at 3 times the expected daily flow.
- C. Effluent filters must have a riser to grade and installed so that they are readily accessible for maintenance.
- D. Effluent filters for new tank installations shall be installed as the outlet device inside the last septic tank.
 - a. Manufacturers:
 - 1) Zabel A1800
 - 2) Polylok
 - 3) Or approved equal.

2.4 CONFIGURATION

- A. As indicated on the Plans
- B. Clear Inside Dimensions: As indicated on Drawings.
- C. Design Depth: As indicated on Drawings.
- D. Clear Cover Opening: As indicated on Drawings.
- E. Pipe Entry: Furnish openings as indicated on Drawings.

2.5 BACKFILL

- A. Backfill materials shall be in accordance with SSPWC 300-3.1 and 300-3.5.

2.6 ACCESSORIES

- A. Flexible Pipe Boots: as specified on the Plans, ASTM C923, and in Section 33 41 00.
- B. Flexible Joint Sealants: ASTM C990; rubber.
 - 1. All precast sections shall be bedded in flexible joint sealant.
 - a. Manufacturers:
 - 1) Hamilton Kent, Model Kent Seal #2.
 - 2) Polylock
 - 3) Press Seal
 - 4) Henry, Model RAM-NEK RN103.
 - 5) Or approved equal.
 - a) A double bead shall be used if sealant is 3/4- inch or 1- inch diameter.
 - b) A single bead shall be used if the sealant is 1- 1/4-inch or greater diameter.
 - 2. All joints between precast sections shall be wrapped in a butyl- rubber based tape.
 - a. Manufacturers:
 - 1) Press-Seal Gasket Corporations, Model EZ-WRAP Rubber.
 - 2) Henry, Model RU116 RUBR-NEK External Joint Wrap.
 - 3) Or approved equal.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify items provided by other sections of Work are properly sized and located.
- B. Verify built-in items are in proper location, and ready for roughing into Work.

- C. Verify correct size of structure and excavation.

3.2 PREPARATION

- A. Coordinate placement of inlet pipe or duct sleeves required by other sections.
- B. Do not install structures where site conditions induce loads exceeding structural capacity of structures.
- C. Inspect precast structures immediately prior to placement in excavation to verify manholes and structures are internally clean and free from damage. Remove and replace damaged units.

3.3 INSTALLATION

- A. Refer to the septic tank manufacturer's guidelines for installation instructions.
- B. The excavation shall have enough extra width and length to allow for safe installation and sealing of the components. The bottom of the excavation shall be level graded. The area around the tank must be cleared to a minimum of 2'. The excavation's slope, benching or shoring shall comply with the requirements of OSHA 29 CFR 1926 Subpart P.
- C. Lift precast structures at lifting points designated by manufacturer.
- D. When lowering structures into excavations and joining pipe to units, take precautions to ensure interior of pipeline or structure remains clean.
- E. Excavation and Backfill:
 - 1. Excavate for septic tanks in accordance with Section 31 23 16 in location and to depth shown. Provide clearance around sidewalls of structure for construction operations and backfill.
 - 2. When groundwater is encountered, prevent accumulation of water in excavations. Place structures in a dry trench.
 - 3. Backfill shall be suitable clean material and shall be laid in lifts not exceeding 10" in depth (loose material) and adequately compacted from bottom to top to prevent movement or settling under the pipe or fittings. Only

mechanical backfilling methods can be utilized; water-jetting (liquefaction of backfill dirt) is not acceptable.

- F. Tank and Bedding
 - 1. Hand trim excavation for accurate placement of tank to indicated elevations.
 - 2. Place bedding material level and in continuous layers not exceeding 12 inches of compacted depth.
 - 3. Compact to 95 percent maximum density.
 - 4. Backfill around sides of tank, tamp in place, and compact to 95 percent maximum density.
 - 5. Install septic tank, distribution chamber, and related components on bedding.
- G. Set precast septic tank bearing firmly and fully on compacted crushed stone bedding in accordance with these Special Provisions, and as shown on the Drawings. Plumb and level according to ASTM C891, trim to correct elevations.
- H. The septic tank shall be installed level in all directions (with a maximum tolerance in any direction of +/- one quarter inch). Backfill shall be placed around the septic tank in such a manner as to avoid damage. Backfill shall be free of large stones, stumps, and construction debris.
- I. Place structure backfill per SSPWC 300-3.1 and 300-3.5. No jetting is allowed.
- J. Remove knockouts or cut structure to receive piping without creating openings larger than required to receive pipe.
- K. Inlet and outlet pipe penetrations shall utilize a flexible joint as recommended by the septic tank manufacturer.
- L. Set cover frames and covers level without tipping, to correct elevations.

3.4 CASTINGS INSTALLATION

- A. Set frame and cover as indicated in the Drawings.

3.5 FIELD QUALITY CONTROL

- A. Hydrostatic Testing: Test tanks for watertightness using hydrostatic method according to ASTM C1227.

- B. Vacuum test concrete septic tank according to Section 9.2.1 of ASTM C1227.
1. Septic tanks shall be tested in the presence of the Engineer for acceptance prior to final paving and after all backfilling and compaction is completed. Industry standards suggest that the structures be pretested immediately after assembly and prior to backfilling. Such pretesting is of the Contractor's convenience and need not be in the presence of the inspector.
 2. All testing equipment and labor shall be provided by the Contractor.
 3. All pipes entering the tank shall be plugged, taking care to securely brace the plugs from being drawn into the structure.
 4. Seal the tank and apply a vacuum of 4" of mercury. Hold the vacuum for 5 minutes. During the initial 5 minutes, the vacuum shall not drop more than ½" of mercury, which allows for equipment pressure equalization loss. If the vacuum drops, it shall be brought back up to 4" of mercury and held for additional 5 minutes with no vacuum loss. If the tank fails the test; it shall be repaired and retested.
- C. Water-pressure test concrete septic tank according to Section 9.2.2 of ASTM C1227.
1. Seal the septic tank and fill with water.
 2. Let stand for 24 hours.
 3. Refill the tank.
 4. The tank is approved if the water level is held for 1 hour.
 5. If the tank fails testing repairs or replacement shall be enacted to resolve the leaking condition.

END OF SECTION 33 36 13.13

SECTION 33 36 13.14

CONCRETE SEPTIC TANKS – NEW RESTROOMS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Modular precast concrete septic tanks, cover frame, covers, anchorage, and accessories.
 - 2. Concrete Grade Ring.
 - 3. Bedding and cover materials.
 - 4. Septic tank outlet filters

- B. Related Sections:
 - 1. Section 31 23 16 and 31 23 23.13 – Excavation and Backfill
 - 2. Section 33 31 00 – Sanitary Utility Sewerage Piping

1.2 REFERENCES

- A. American Concrete Institute:
 - 1. ACI 530/530.1 - Building Code Requirements for Masonry Structures and Specifications for Masonry Structures.

- B. ASTM International:
 - 1. ASTM A48/A48M - Standard Specification for Gray Iron Castings.
 - 2. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - 3. ASTM C361 - Standard Specification for Reinforced Concrete Low-Head Pressure Pipe.
 - 4. ASTM C913 - Standard Specification for Precast Concrete Water and Wastewater Structures.
 - 5. ASTM C923 - Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes and Laterals.
 - 6. ASTM C990 – Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants
 - 7. ASTM C1227 – Standard Specification for Precast Concrete Septic Tanks
 - 8. ASTM D1557 – Standard Test Methods for Laboratory Compaction Characteristics of Soil

- C. This Technical Specification makes reference to the Standard Specifications for Public Works Construction (“Greenbook” or SSPWC).

1.3 SUBMITTALS

- A. Shop Drawings: Indicate structure locations, elevations, sizes and elevations of penetrations.
- B. Design Calculations: signed and stamped by a professional engineer licensed in the State of California. Calculations shall show that structure can withstand groundwater and hydrostatic force, seismic forces, and load rating (H-20) for each structure as indicated on the drawings.
- C. Product Data: Submit manhole/riser covers, component construction, features, configuration, and dimensions.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Comply with precast concrete manufacturer's instructions for unloading, storing and moving precast septic tanks.
- B. Mark each precast structure by indentation or waterproof paint showing date of manufacture, manufacturer, and identifying symbols and numbers shown on Drawings to indicate its intended use.

PART 2 PRODUCTS

2.1 CONCRETE SEPTIC TANKS

- A. The following are the accepted methods for Precast Septic Tanks Sections:
 - 1. Reinforced precast concrete in accordance with ASTM C478 with gaskets in accordance with ASTM C923.
 - 2. Precast reinforced concrete septic tanks shall conform to American Society for Testing and Materials (ASTM) "Standard Specification for Precast Concrete Septic Tanks C-1227-10a" and with current edition of the UPC and IAPMO certified.
 - 3. Materials (ASTM) "Standard Specification for Precast Concrete Septic Tanks C-1227-10a"
 - 4. Precast concrete sections shall be sealed with one inch butyl rubber joint sealant which conforms to ASTM C990.
 - a. Manufacturers:
 - 1) Jensen Precast
 - 2) Procast
 - 3) Oldcastle Precast
 - 4) Or approved equal.
 - b. Description:
 - 1) Capacity: 3500 gallons.

- 2) Design: Comply with ASTM C890 for live loading and installation conditions.
- 3) Fabrication:
 - a) Comply with ASTM C1227.
 - b) Reinforced and air-entrained concrete.
 - c) Watertight.

2.2 FRAMES AND COVERS

- A. Product Description: Solid covers for AASHTO HS-20 rated structures as indicated on the Plans.
- B. Manhole or access riser frames shall have two concentric covers, made of cast-iron in accordance with ASTM A48 Class 30. Covers shall incorporate a "pic-hole" for lifting purposes.
- C. Casting shall be smooth, clean, and free from blisters, blowholes, and shrinkage. Mating surfaces of the frame and cover shall be machined smooth and true to prevent rocking and lateral movement of the lid. Frames and covers shall be match marked in sets before shipping to the site.

2.3 EFFLUENT FILTERS

- A. Product Description: Removable filter that restricts discharge solids to a specified size (1/16").
- B. Design: An effluent filter rated at 3 times the expected daily flow.
- C. Effluent filters must have a riser to grade and installed so that they are readily accessible for maintenance.
- D. Effluent filters for new tank installations shall be installed as the outlet device inside the last septic tank.
 - a. Manufacturers:
 - 1) Zabel A1800
 - 2) Polylok
 - 3) Or approved equal.

2.4 CONFIGURATION

- A. As indicated on the Plans
- B. Clear Inside Dimensions: As indicated on Drawings.
- C. Design Depth: As indicated on Drawings.
- D. Clear Cover Opening: As indicated on Drawings.
- E. Pipe Entry: Furnish openings as indicated on Drawings.

2.5 BACKFILL

- A. Backfill materials shall be in accordance with SSPWC 300-3.1 and 300-3.5.

2.6 ACCESSORIES

- A. Flexible Pipe Boots: as specified on the Plans, ASTM C923, and in Section 33 41 00.

- B. Flexible Joint Sealants: ASTM C990; rubber.

- 1. All precast sections shall be bedded in flexible joint sealant.

- a. Manufacturers:

- 1) Hamilton Kent, Model Kent Seal #2.
- 2) Polylock
- 3) Press Seal
- 4) Henry, Model RAM-NEK RN103.
- 5) Or approved equal.

- a) A double bead shall be used if sealant is 3/4- inch or 1- inch diameter.

- b) A single bead shall be used if the sealant is 1- 1/4-inch or greater diameter.

- 2. All joints between precast sections shall be wrapped in butyl- rubber based tape.

- a. Manufacturers:

- 1) Press-Seal Gasket Corporations, Model EZ-WRAP Rubber.
- 2) Henry, Model RU116 RUBR-NEK External JointWrap.
- 3) Or approved equal.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify items provided by other sections of Work are properly sized and located.

- B. Verify built-in items are in proper location, and ready for roughing into Work.

- C. Verify correct size of structure and excavation.

3.2 PREPARATION

- 1. Coordinate placement of inlet pipe or duct sleeves required by other sections.
- B. Do not install structures where site conditions induce loads exceeding structural capacity of structures.
- C. Inspect precast structures immediately prior to placement in excavation to verify manholes and structures are internally clean and free from damage. Remove and replace damaged units.

3.3 INSTALLATION

- A. Refer to the septic tank manufacturer's guidelines for installation instructions.
- B. The excavation shall have enough extra width and length to allow for safe installation and sealing of the components. The bottom of the excavation shall be level graded. The area around the tank must be cleared to a minimum of 2'. The excavation's slope, benching or shoring shall comply with the requirements of OSHA 29 CFR 1926 Subpart P.
- C. Lift precast structures at lifting points designated by manufacturer.
- D. When lowering structures into excavations and joining pipe to units, take precautions to ensure interior of pipeline or structure remains clean.
- E. Excavation and Backfill:
 - 1. Excavate for septic tanks in accordance with Section 31 23 16 in location and to depth shown. Provide clearance around sidewalls of structure for construction operations and backfill.
 - 2. When groundwater is encountered, prevent accumulation of water in excavations. Place structures in a dry trench.
 - 3. Backfill shall be suitable clean material and shall be laid in lifts not exceeding 10" in depth (loose material) and adequately compacted from bottom to top to prevent movement or settling under the pipe or fittings. Only mechanical backfilling methods can be utilized; water-jetting (liquification of backfill dirt) is not acceptable.
- F. Tank and Bedding
 - 1. Hand trim excavation for accurate placement of tank to indicated elevations.
 - 2. Place bedding material level and in continuous layers not exceeding 12 inches of compacted depth.
 - 3. Compact to 95 percent maximum density.

4. Backfill around sides of tank, tamp in place, and compact to 95 percent maximum density.
 5. Install septic tank, distribution chamber, and related components on bedding.
- G. Set precast septic tank bearing firmly and fully on compacted crushed stone bedding in accordance with these Special Provisions, and as shown on the Drawings. Plumb and level according to ASTM C891, trim to correct elevations.
 - H. The septic tank shall be installed level in all directions (with a maximum tolerance in any direction of +/- one quarter inch). Backfill shall be placed around the septic tank in such a manner as to avoid damage. Backfill shall be free of large stones, stumps, and construction debris.
 - I. Place structure backfill per SSPWC 300-3.1 and 300-3.5. No jetting is allowed.
 - J. Remove knockouts or cut structure to receive piping without creating openings larger than required to receive pipe.
 - K. Inlet and outlet pipe penetrations shall utilize a flexible joint as recommended by the septic tank manufacturer.
 - L. Set cover frames and covers level without tipping, to correct elevations.

3.4 CASTINGS INSTALLATION

- A. Set frame and cover as indicated in the Drawings.

3.5 FIELD QUALITY CONTROL

- A. Hydrostatic Testing: Test tanks for watertightness using hydrostatic method according to ASTM C1227.
- B. Vacuum test concrete septic tank according to Section 9.2.1 of ASTM C1227.
 1. Septic tanks shall be tested in the presence of the Engineer for acceptance prior to final paving and after all backfilling and compaction is completed. Industry standards suggest that the structures be pretested immediately after assembly and prior to backfilling. Such pretesting is of the Contractor's convenience and need not be in the presence of the inspector.
 2. All testing equipment and labor shall be provided by the Contractor.
 3. All pipes entering the tank shall be plugged, taking care to securely brace the plugs from being drawn into the structure.
 4. Seal the tank and apply a vacuum of 4" of mercury. Hold the vacuum for 5 minutes. During the initial 5 minutes, the vacuum shall not drop more than 1/2" of mercury, which allows for equipment pressure equalization loss. If the vacuum drops, it shall

be brought back up to 4” of mercury and held for additional 5 minutes with no vacuum loss. If the tank fails the test; it shall be repaired and retested.

C. Water-pressure test concrete septic tank according to Section 9.2.2 of ASTM C1227.

1. Seal the septic tank and fill with water.
2. Let stand for 24 hours.
3. Refill the tank.
4. The tank is approved if the water level is held for 1 hour.
5. If the tank fails testing repairs or replacement shall be enacted to resolve the leaking condition.

PART 4 MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. 3,500 Gallon Septic Tank will not be measured for payment.
- B. Risers/Manhole Frames and Covers (Septic Tank) will not be measured for payment.

4.2 PAYMENT

- A. The Contract lump sum paid for the 3,500 Gallon Septic Tank shall include full compensation for furnishing all labor, materials, equipment, tools, and incidentals, including excavation, shoring, dewatering, installation, backfill, filters, sealant, and vacuum testing, and for doing all the work as shown on the Plans and as specified in these Special Provisions, and no additional compensation will be allowed therefor.
- B. The Contract lump sum paid for Risers/Manhole Frames and Covers (Septic Tank) shall include full compensation for furnishing all labor, materials, equipment, tools, and incidentals, including installation, shoring, dewatering, backfill, adjustments to grade, vacuum testing, and for doing all the work of installing Risers/Manhole Frames and Covers (Septic Tank), complete in place, as shown on the Plans and as specified in these Special Provisions, and additional compensation will be allowed therefor.

END OF SECTION 33 36 13.14

SECTION 33 39 00

PRECAST DISTRIBUTION BOX

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Precast Concrete Distribution Box,
 - 2. Bedding and Cover Materials.
 - 3. Concrete Grade Ring.

- B. Related Sections:
 - 1. Section 31 23 16 and 31 23 23.13 – Excavation and Backfill
 - 2. Section 33 31 00 – Sanitary Utility Sewerage Piping

1.2 REFERENCES

- A. American Concrete Institute:
 - 1. ACI 530/530.1 - Building Code Requirements for Masonry Structures and Specifications for Masonry Structures.

- B. ASTM International:
 - 1. ASTM A48/A48M - Standard Specification for Gray Iron Castings.
 - 2. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - 3. ASTM C361 - Standard Specification for Reinforced Concrete Low-Head Pressure Pipe.
 - 4. ASTM C913 - Standard Specification for Precast Concrete Water and Wastewater Structures.
 - 5. ASTM C923 - Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes and Laterals.
 - 6. ASTM C990 – Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants
 - 7. ASTM D1557 – Standard Test Methods for Laboratory Compaction Characteristics of Soil

- C. This Technical Specification makes references to the Standard Specifications for Public Works Construction (“Greenbook” or SSPWC).

1.3 SUBMITTALS

- A. Shop Drawings: Indicate structure locations, elevations, sizes and elevations of penetrations.
- B. Design Calculations: signed and stamped by a professional engineer licensed in the State of California. Calculations shall show that structure can withstand groundwater and hydrostatic force, seismic forces, and load rating (H-20) for each structure as indicated on the drawings.
- C. Product Data: Submit manhole/riser covers, component construction, features, configuration, and dimensions.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Comply with precast concrete manufacturer’s instructions and ASTM C913 for unloading, storing and moving precast structures.
- B. Mark each precast structure by indentation or waterproof paint showing date of manufacture, manufacturer, and identifying symbols and numbers shown on Drawings to indicate its intended use.

PART 2 PRODUCTS

2.1 PRECAST DISTRIBUTION BOX

- A. The following are the accepted methods for Precast Distribution Box Sections:
 - 1. Reinforced precast concrete in accordance with ASTM C478 with gaskets in accordance with ASTM C923.
 - a. Manufacturers:
 - 1) Jensen Precast
 - 2) Or approved equal.

2.2 FRAMES AND COVERS

- A. Product Description: Solid covers for AASHTO H-20 rated structures as indicated on the Plans.
- B. Manhole or access riser frames shall have two concentric covers, made of cast-iron in accordance with ASTM A48 Class 30. Covers shall incorporate a “pic-hole” for lifting purposes.
- C. Casting shall be smooth, clean, and free from blisters, blowholes, and shrinkage. Mating surfaces of the frame and cover shall be machined smooth and true to prevent rocking and lateral movement of the lid. Frames and covers shall be match marked in sets before shipping to the site.

2.3 CONFIGURATION

- A. As indicated on the Plans
- B. Clear Inside Dimensions: As indicated on Drawings.
- C. Design Depth: As indicated on Drawings.
- D. Clear Cover Opening: As indicated on Drawings.
- E. Pipe Entry: Furnish openings as indicated on Drawings.

2.4 BACKFILL

- A. Backfill materials shall be in accordance with SSPWC 300-3.1 and 300-3.5.

2.5 ACCESSORIES

- A. Flexible Pipe Boots: as specified on the Plans, ASTM C923, and in Section 33 41 00.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify items provided by other sections of Work are properly sized and located.

- B. Verify built-in items are in proper location, and ready for roughing into Work.
- C. Verify correct size of structure and excavation.

3.2 PREPARATION

- A. Coordinate placement of inlet and outlet pipe or duct sleeves required by other sections.
- B. Do not install precast structures where site conditions induce loads exceeding structural capacity of precast structures.
- C. Inspect precast concrete structures immediately prior to placement in excavation to verify structures are internally clean and free from damage. Remove and replace damaged units.

3.3 INSTALLATION

- A. Refer to the distribution box manufacturer’s guidelines for installation instructions.
- B. The excavation shall have enough extra width and length to allow for safe installation and sealing of the components. The bottom of the excavation shall be level graded. The area around the tank must be cleared to a minimum of 2’. The excavation’s slope, benching or shoring shall comply with the requirements of OSHA 29 CFR 1926 Subpart P.
- C. Lift precast structures at lifting points designated by manufacturer.
- D. When lowering structures into excavations and joining pipe to units, take precautions to ensure interior of pipeline or structure remains clean.
- E. Excavation and Backfill:
 - 1. Excavate for the precast structure in accordance with Section 31 23 16 in location and to depth shown. Provide clearance around sidewalls of structure for construction operations, and backfill.
 - 2. When groundwater is encountered, prevent accumulation of water in excavations. Place structures in a dry trench.
 - 3. Backfill shall be suitable clean material and shall be laid in lifts not exceeding 10” (loose material) in depth and adequately compacted from bottom to top to prevent movement or settling under the pipe or

fittings. Only mechanical backfilling methods can be utilized; water-jetting (liquefaction of backfill dirt) is not acceptable.

- F. Bedding
 - 1. Hand trim excavation for accurate placement of structure to indicated elevations.
 - 2. Place bedding material level and in continuous layers not exceeding 12 inches of compacted depth.
 - 3. Compact to 95 percent maximum density.
 - 4. Backfill around sides of structure, tamp in place, and compact to 95 percent maximum density.
 - 5. Install precast structure, and related components on bedding.
- G. Set precast structure bearing firmly and fully on compacted crushed stone bedding in accordance with these Special Provisions, and as shown on the Drawings. Plumb and level according to ASTM C891, trim to correct elevations.
- H. Place structure backfill per SSPWC 300-3.1 and 300-3.5. No jetting is allowed.
- I. Remove knockouts or cut structure to receive piping without creating openings larger than required to receive pipe.
- J. Inlet and outlet pipe penetrations shall utilize a flexible joint as recommended by the distribution box manufacturer.
- K. Set cover frames and covers level without tipping, to correct elevations.

3.4 CASTINGS INSTALLATION

- A. Set frame and cover as indicated in the Drawings.
- B. Set frame and cover as indicated in the Drawings.

PART 4 MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. The Contract lump sum paid for the Distribution Box shall include full compensation for furnishing all labor, materials, equipment, tools, and incidentals and for doing all the work as shown on the Plans and as specified in these Special Provisions.

- B. Concrete Grade Rings will not be measured for payment.

4.2 PAYMENT

- A. The Contract lump sum paid for the Distribution Box shall include full compensation for furnishing all labor, materials, equipment, tools, and incidentals and for doing all the work of the precast distribution box (including lid, access ports, piping connections, bedding, excavation, shoring, and backfilling), as shown on the Plans.

END OF SECTION 33 39 00

SECTION 33 34 51

DRAINAGE FIELD SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Drainage fields connected to septic tanks.

1.2 UNIT PRICES

- A. Pipe and Fittings within Filter Field:
 - 1. Basis of Measurement: By linear foot of field area, measured from the beginning of each leach line to the end of pipe.
 - 2. Basis of Payment: Includes excavating, hand trimming, aggregate bed and cover, pipe and fittings, distribution pipe filter field header, geotextile fabric, and backfilling.

1.3 SUBMITTALS

- A. Product Data: Manufacturer information on piping and geotextile fabric.
- B. Shop Drawings: Plan, location, and inverts of filter field, and inverts and centerlines of connecting piping.
- C. Manufacturer's Certificate: Products meet or exceed specified requirements.
- D. Manufacturer Instructions: Special procedures for drainage field installation.
- E. Field Quality-Control Submittals: Indicate results of Contractor-furnished tests and inspections.
- F. Qualifications Statements:
 - 1. Qualifications for manufacturer and installer.

1.4 SUSTAINABLE DESIGN SUBMITTALS

- A. Manufacturer's Certificate: Products meet or exceed specified sustainable design requirements.
- B. Materials Resources Certificates:

1. Recycled material content for recycled content products.
2. Source for regional materials and distance from Project Site.

C. Product Cost Data:

1. Verify compliance with Project sustainable design requirements.
2. Exclude cost of labor and equipment to install products.
3. Provide cost data for following products:
 - a. Products with recycled material content.
 - b. Regional products.

1.5 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record actual locations of inverts and centerlines of buried pipe, components, and connections.
- B. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

1.6 QUALITY ASSURANCE

- A. Perform Work according to County of Riverside LAMP OWTS guidelines.
- B. Manufacturer: Company specializing in manufacturing products specified in this Section with ten years' experience.
- C. Installer: Company specializing in performing Work of this Section with three years' experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store materials according to manufacturer instructions.
- B. Protection:
 1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.
 2. Provide additional protection according to manufacturer instructions.

1.8 EXISTING CONDITIONS

- A. Field Measurements:
 1. Verify field measurements prior to fabrication.
 2. Indicate field measurements on Shop Drawings.

PART 2 - PRODUCTS

2.1 DRAINAGE FIELD PIPING

- A. Provide perforated pipe at filter field system and unperforated pipe through sleeves and at junction with distribution chamber.
- B. PVC Pipe SDR-35:
 - 1. Comply with ASTM D2729.
 - 2. Nominal Inside Diameter: 4 inches
 - 3. End Connections: capped.
- C. Filter Aggregate:
 - 1. Aggregate Materials: coarse screened gravel ¾-inch to 2-inch, as specified in Section 31 05 16 - Aggregates for Earthwork

2.2 ACCESSORIES

- A. Geotextile Filter Fabric:
 - 1. Comply with AASHTO M288, subsurface drainage.
 - 2. Description: Class **3**, non-biodegradable.
 - 3. Type: Nonwoven
 - 4. Mirafi 140N, as manufactured by Tencate. Or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that septic tank connection, size, location, and invert are as indicated.

3.2 INSTALLATION

- A. Drainage Field Piping:
 - 1. Excavate as specified in Section 31 23 16.13 - Trenching
 - 2. Place 4" SDR-35 field pipe header at constant elevation or sloping down from header inlet at 3 in./100 ft max.
 - 3. Bedding:

- a. Place course screen aggregate bed 36 inches thick, and compact until firm, compact to percent maximum density per geotechnical report.
 - b. Establish slope of bed to accommodate established invert elevations.
- 4. Place pipe sloping away from header at constant elevation or sloping down from header inlet at 3 in./100 ft max. with perforations facing down.
 - 5. Place geotextile fabric over pipe and cover with 2 inches of gravel prior to backfilling, per leach line section.
 - 6. Cover entire field with native material to depths shown on plans, lightly compact, and level.
 - 7. Place subsoil cover as specified in Section 31 23 16.13 – Trenching.

3.3 FIELD QUALITY CONTROL

- A. Request inspection by Design Engineer prior to placing cover over piping.
- B. Compaction Testing:
 - 1. Comply with recommendation given in geotechnical report and on plans.
 - 2. If tests indicate Work does not meet specified requirements, remove Work, replace, and retest.
 - 3. Testing Frequency: as recommended on geotechnical report.

3.4 PROTECTION

- A. Do not permit vehicular traffic over drainage field.

END OF SECTION 33 34 51

SECTION 33 31 00

SANITARY UTILITY

SEWERAGE PIPING

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Pipe and fittings.
2. Accessories
3. Underground pipe markers.
4. Connection to existing manholes.
5. Manholes.
6. Bedding, backfill, and cover materials.

1.2 REFERENCES

A. This Technical Specification makes references to the Standard Specifications for Public Works Construction ("Greenbook" or SSPWC), and to the Riverside County Standard Drawings.

B. American Association of State Highway and Transportation Officials:

1. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457- mm (18-in.) Drop.

C. ASTM International:

1. ASTM B177 – Standard Test Method for Operating Salt Spray (Fog) Testing.
2. ASTM C14 - Standard Specification for Concrete Sewer, Storm Drain, and Culvert Pipe.
3. ASTM C76 – Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe.
4. ASTM C443 - Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets.
5. ASTM C923 - Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes and Laterals.
6. ASTM C924 – Standard Practice for Testing concrete Pipe Sewer Lines by Low-Pressure Air Test Method.
7. ASTM C 969 – Standard Practice for Infiltration and Exfiltration

8. Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines.
ASTM C1103 – Standard Practice for Joint Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines.
9. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)).
10. ASTM D714 – Standard Test Method for Evaluating Degree of Blistering of Paints.
11. ASTM D1238 – Measuring Flow Rates of Thermoplastics by Extrusion Plastometer.
12. ASTM D1248 –Polyethylene Plastics Molding and Extrusion Materials.
13. ASTM D1505 – Density of Plastics by Density-Gradient Technique.
14. ASTM D1599 – Test for Short Term Rupture Strength of Plastic Pipe, Tubing, and Fitting.
15. ASTM D1693 – Environmental Stress Cracking of Ethylene Plastics.
16. ASTM D1784 – Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
17. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³)).
18. ASTM D1785 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) .
19. Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
20. ASTM D1928 – Preparation of Compression Molded Polyethylene Test Samples.
21. ASTM D2152 – Test Method for Degree of Fusion of Extruded Poly (Vinyl Chloride) (PVC) Pipe and Molded Fittings by Acetone Immersion.
22. ASTM D2241 – Poly (Vinyl Chloride) (PVC) Plastic Pipe (SDR-PR).
23. ASTM D2321 - Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications.
24. ASTM D2564 - Standard Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems.
25. ASTM D2657 – Heat Joining of Thermoplastic Pipe and Fittings.
26. ASTM D2665 – Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings.
27. ASTM D2729 - Standard Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings.
28. ASTM D2837 – Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials.
29. ASTM D2855 - Standard Practice for Making Solvent- Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings.
30. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
31. ASTM D3017 - Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).
32. ASTM D3034 - Standard Specification for Type PSM Poly (Vinyl

- 33. Chloride) (PVC) Sewer Pipe and Fittings.
ASTM D3035 – Polyethylene Plastic Pipe (SDR-PR) Based on Controlled Outside Diameter.
 - 34. ASTM D3212 – Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals.
 - 35. ASTM D3261 – Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing.
 - 36. ASTM F3350 – Polyethylene Plastic Pipe and Fittings Materials.
 - 37. ASTM F477 - Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe.
 - 38. ASTM F585 – Insertion of Flexible Polyethylene Pipe in Existing Sewers.
 - 39. ASTM F679 – Standard Specification for Poly (Vinyl Chloride) (PVC) Large Diameter Plastic Gravity Sewer Pipe and Fittings.
 - 40. ASTM F714 – Standard Specification for Polyethylene Plastic Pipe Based on Outside Diameters.
 - 41. ASTM F1417 – Standard Test Method for Installation Acceptance of Plastic Gravity Sewer Lines Using Low- Pressure Air.
- D. American Water Works Association:
- 1. AWS Standard Qualification Procedure.
- E. American Water Works Association:
- 1. AWWA M23 – AWWA Manual of Supply Practices PVC Pipe – Design and Installation, Second Edition.
 - 2. AWWA C900 – Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4-inch through 48-inch for Water Transmission and Distribution.
- F. National Fire Protection Association:
- 1. NFPA 24 - Installation of Private Fire Service Mains and Their Appurtenances.
 - 2. NFPA 20 – Standard for the Installation of Stationary Pumps for Fire Protection.
- G. National Sanitation Foundation, most recent version:
- 1. NSF-14 – Plastics Piping System Components and Related Materials.
- H. Plastics Pipe Institute, most recent version:
- 1. PPI TR-2 – PVC Range Composition Listing of Qualified Ingredients.
- I. UNI-BELL PVC Pipe Association, most recent version:
- 1. UNI-B-6 – Recommended Practice for Low-Pressure Air Testing of

Installed Sewer Pipe.

2. UNI-PUB-08 – Tapping Guide for PVC Pressure Pipe

1.3 SUBMITTALS

- A. Polyvinyl chloride pipe materials
- B. Precast structure design shop drawings
- C. Pipe penetration seal
- D. Pipe bedding
- E. Pipe Fittings
- F. Cleanouts

1.4 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum three years documented experience.
- B. Installer: Company specializing in performing work of this section with minimum three years documented experience.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. The Contractor shall exercise special care during the unloading, handling, and storage of all pipe to ensure that the pipe is not cut, gouged, scored, or otherwise damaged. Any pipe segment which has cuts in the pipe wall exceeding 10 percent of the wall thickness shall be cut out and removed from the site at the Contractor's expense.
- B. The pipe shall be stored so that it is not deformed axially or circumferentially which may hinder pipe installation. No vertical load shall be placed on pipe during storage. Contractor shall test all pipe for ovality prior to installation. Pipe not meeting specified requirements shall be replaced with new material.
- C. All plastic pipes shall have an ultraviolet inhibitor and shall also be stored in a covered area on blocks, such that no individual pipes weight shall bear on another pipe segment. Pipes shall be supported so as not to allow the pipe to sag along its length between blocks during storage.
- D. Block individual and stockpiled pipe lengths to prevent moving.

1.6 FIELD MEASUREMENTS

- A. Verify field measurements and elevations are as indicated.

1.7 COORDINATION

- A. Coordinate the Work with other trades and operations at the site.

PART 2 PRODUCTS

2.1 POLYVINYL CHLORIDE PIPE (PVC) GRAVITY PIPE

- A. PVC shall conform to SDR 35.

2.13 PIPE CONNECTION TO CONCRETE STRUCTURES

- A. Connections to concrete structures shall be either:
 - 1. Flexible Pipe Boot Style per SSPWC Section 208-6 for sewer manholes
 - 2. Modular Interlocking Synthetic Rubber Link Assembly, Link- Seal Brand as shown on the Plans or approved equal for valve vaults.

Type for each connection made shall be as called out on the Plans and details.

2.14 UNDERGROUND PIPE MARKERS

- A. Manufacturers:
 - 1. Presco – Underground Warning Tape, Detectable.
 - 2. Reef Industries, Inc. – Terra Tape, Detectable
 - 3. or equal.
- B. Furnish materials in accordance with OSHA standards.
- C. Plastic Ribbon Tape: Bright colored green, continuously printed, minimum 6 inches wide by 4-mil thick, manufactured for directburial service.

2.15 BEDDING AND COVER MATERIALS

- A. Bedding: SSPWC Standards.
- B. Cover: SSPWC and as shown on the Plans.
- C. Soil Backfill from Above Pipe to Finish Grade: SSPWC and as shown on the Plans.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify excavation base is ready to receive work and excavations, dimensions, and elevations are as indicated on the Drawings.

3.2 PREPARATION

- A. Remove large stones or other hard matter capable of damaging pipe or impeding consistent backfilling or compaction.
- B. Remove soft or loose soil and over excavate per Section 31 23 16.
- C. Protect and support existing sewer lines, utilities and appurtenances.
- D. Maintain profiles of utilities. Coordinate with other utilities to eliminate interference. Notify the Engineer where crossing conflicts occur.

3.3 BEDDING

- A. Excavate pipe trench in accordance with Section 31 23 16.
- B. Excavate to lines and grades shown on the Plans or required to accommodate installation.
- C. Dewater excavations to maintain dry conditions and preserve final grades at bottom of excavation.
- D. Provide sheeting and shoring in accordance with Section 31 23 16.
- E. Place, level, and compact bedding material at trench bottom per Section 31 23 16.

3.4 INSTALLATION - GENERAL

- A. All pipe installation shall be in accordance with manufacturer's recommendations. Contractor shall immediately notify the Engineer of any conflicts between manufacturer's recommendations and drawings.
- B. For plastic pipe, install pipe, fittings, and accessories in accordance with ASTM D2321 Seal joints watertight.
- C. Lay pipe to slope gradients noted on the Drawings. Begin at
downstream end and progress upstream.

- D. Assemble and handle pipe in accordance with manufacturer's instructions except as modified on the Drawings or by the Engineer.
- E. Keep pipe and fittings clean until work is completed and accepted by the Engineer. Cap open ends during periods of work stoppage.
- F. Connect pipe to new manhole as detailed in this Specification.
- G. Install plastic ribbon tape continuous over top of pipe, buried 6 inches below finish grade. Coordinate with Section 31 23 16.
- H. For plastic pipe, Install pipe, fittings, and accessories in accordance with ASTM D2321. Seal joints watertight.

3.5 BACKFILLING

- A. Backfill around sides and to top of pipe in accordance with Section 31 23 16.

3.6 FIELD QUALITY CONTROL

- A. Sections 33 01 32 –Pipeline Testing

3.7 PROTECTION OF FINISHED WORK

- A. Protect pipe and aggregate cover from damage or displacement.

PART 4 MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

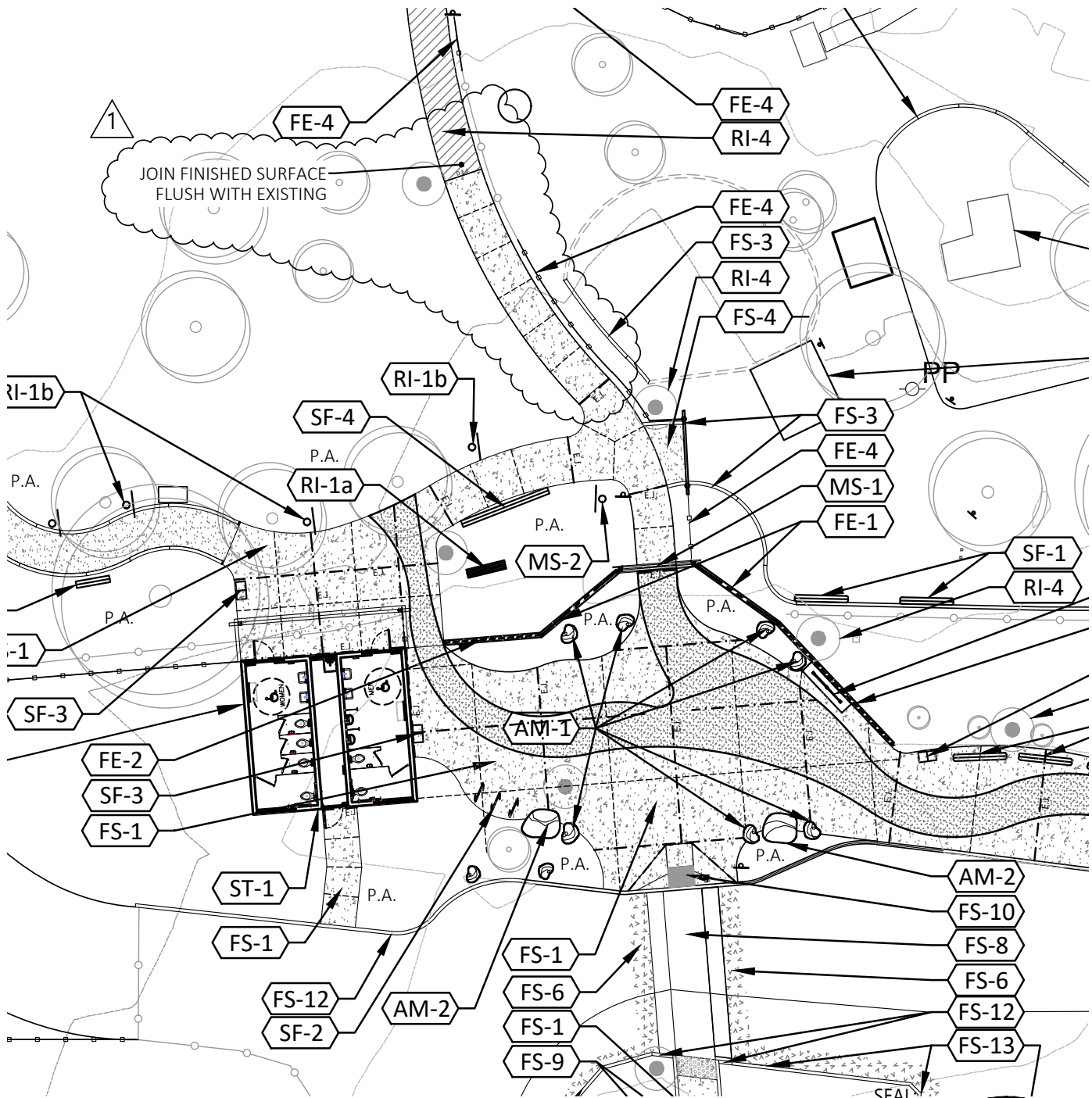
- A. Misc. Piping Spools and Fittings shall not be measured for payment. This item shall include all PVC piping and Fittings.

4.2 PAYMENT

- A. The Contract unit price paid for 4" SDR-35 PVC and Trenching shall include full compensation for furnishing all labor, materials, equipment, tools and incidentals and for doing all the work of installing the PVC gravity piping complete in place, (including; fittings, testing, locating and potholing existing utilities, protection of all utility crossings in place, excavation, trenching, dewatering, trench backfill material in trench zone, pipe embedment material in pipe zone as shown on the Plans and as specified in these Special Provisions and the SSPWC.
- B. The Contract unit price paid for Sewer Cleanout shall include full compensation for furnishing all labor, materials, equipment, tools and incidentals and for doing all

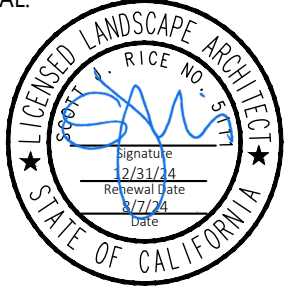
the work of installing the sewer cleanouts, complete in place, including; fittings, testing, locating and potholing existing utilities, protection of all utility crossings in place, excavation, trenching, dewatering, trench backfill material in trench zone, pipe embedment material in pipe zone, as shown on the Plans and as specified in these Special Provisions and the SSPWC.

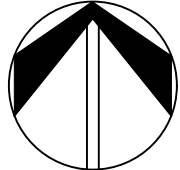

END OF SECTION 33 31 00



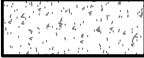





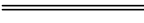
LANDSCAPE SHEET LC-1

Sheet Revision 1 of 4



<p>HIDDEN VALLEY NATURE CENTER</p>	<p>PREPARED FOR: RIVERSIDE COUNTY PARKS</p> <p>DESCRIPTION: ADDENDUM #3 8/15/24 CONCRETE AND SEPTIC</p>	 <p>SCALE:NTS</p>	 <p>7111 INDIANA AVENUE Riverside, CA 92504 (951) 369-0700 Fax (951) 369-4039 www.cwdg.fun</p>
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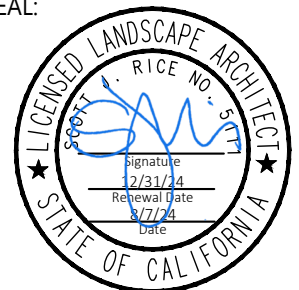
CONSTRUCTION LEGEND:

DESCRIPTION	QTY.	DETAIL
STRUCTURES		
ST-1 CONTRACTOR FURNISHED AND INSTALLED PREFABRICATED RESTROOM BUILDING PER DEFERRED SUBMITTAL (NOT A PART)	1	DETAIL 'A', SHEET LC-3
ST-2 OMITTED		
ST-3 CONTRACTOR FURNISHED AND INSTALLED AMPHITHEATER SHADE STRUCTURE. DEFERRED SUBMITTAL (NOT A PART)	1	DETAIL 'C', SHEET LC-3
ST-4 CONTRACTOR FURNISHED AND INSTALLED TEACHING AREA SHADE STRUCTURE. DEFERRED SUBMITTAL (NOT A PART)	1	DETAIL 'B', SHEET LC-3
ST-5 INSTALL AND CONSTRUCT SEPTIC SYSTEM AND LEACH FIELD, PER CIVIL ENGINEERING PLANS.	1	SEE SHEET LG-2.
ST-6 <i>BID ALTERNATE #1:</i> CONTRACTOR FURNISHED AND INSTALLED FOREVER REDWOOD SHADE STRUCTURE OR APPROVED EQUAL.	1	DETAIL 'G', SHEET LC-4
FINISHED SURFACES		
FS-1 CONSTRUCT 4" NATURAL GRAY CONCRETE FLATWORK WITH MEDIUM BROOM FINISH, UNLESS OTHERWISE NOTED. STAINED CONCRETE PAVING. COLOR TO BE SELECTED TO MATCH EXISTING.	 8,267 S.F.	DETAIL 'A', SHEET LC-5
FS-2 CONSTRUCT 4" THICK CONCRETE FLATWORK. CHROMIX INTEGRAL COLOR C-27 'WESTWOOD BROWN'. STAMP LITHOTEX 'QUARTZITE STRATA' TEXTURE WITH LITHOCHROME A-24 'RUSSET' ANTIQUING RELEASE. AVAILABLE FROM LM SCOFIELD.	 1,375 S.F.	DETAILS 'A' SHEET LC-5
FS-3 CONSTRUCT 6" CONCRETE MOWCURB, NATURAL GRAY MEDIUM BROOM FINISH	 1,250 L.F.	DETAIL 'B', SHEET LC-5
FS-4 PROVIDE AND INSTALL STABILIZED DECOMPOSED GRANITE 3" THICK, COLOR: CALIFORNIA GOLD BLEND WITH EXISTING D.G. PAVING TO CREATE A UNIFORM FINISH SURFACE WHERE OCCURS.	 2,529 S.F.	DETAILS 'B' & 'C', SHEET LC-5
FS-5 PROVIDE AND INSTALL CONCRETE PAVERS; BELGARD AVALON SLATE; 3 PIECE TOSCANA BLEND	 2,358 S.F.	DETAIL 'D', SHEET LC-5
FS-6 PROVIDE AND INSTALL AND COMPACT 6" MIN. DEPTH CLASS II BASE TO MATCH EXISTING PARKING LOT. BLEND TO CREATE A UNIFORM FINISH SURFACE WITH EXISTING. MINIMUM 90% SUBGRADE COMPACTION, MINIMUM 95% CLASS II BASE COMPACTION	 10 C.Y.	
FS-7 OMITTED	-	
FS-8 CONSTRUCT RAISED PEDESTRIAN CROSSING	1	DETAIL 'F', SHEET LC-5
FS-9 CONSTRUCT 6" CONCRETE CURB AT CONCRETE PAVING	 170 L.F.	SHEET LC-5

LANDSCAPE SHEET LC-2

Sheet Revision 2 of 4

SEAL:



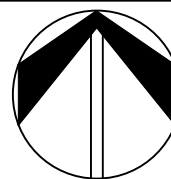
HIDDEN VALLEY
NATURE CENTER

PREPARED FOR:

RIVERSIDE COUNTY
PARKS

DESCRIPTION:

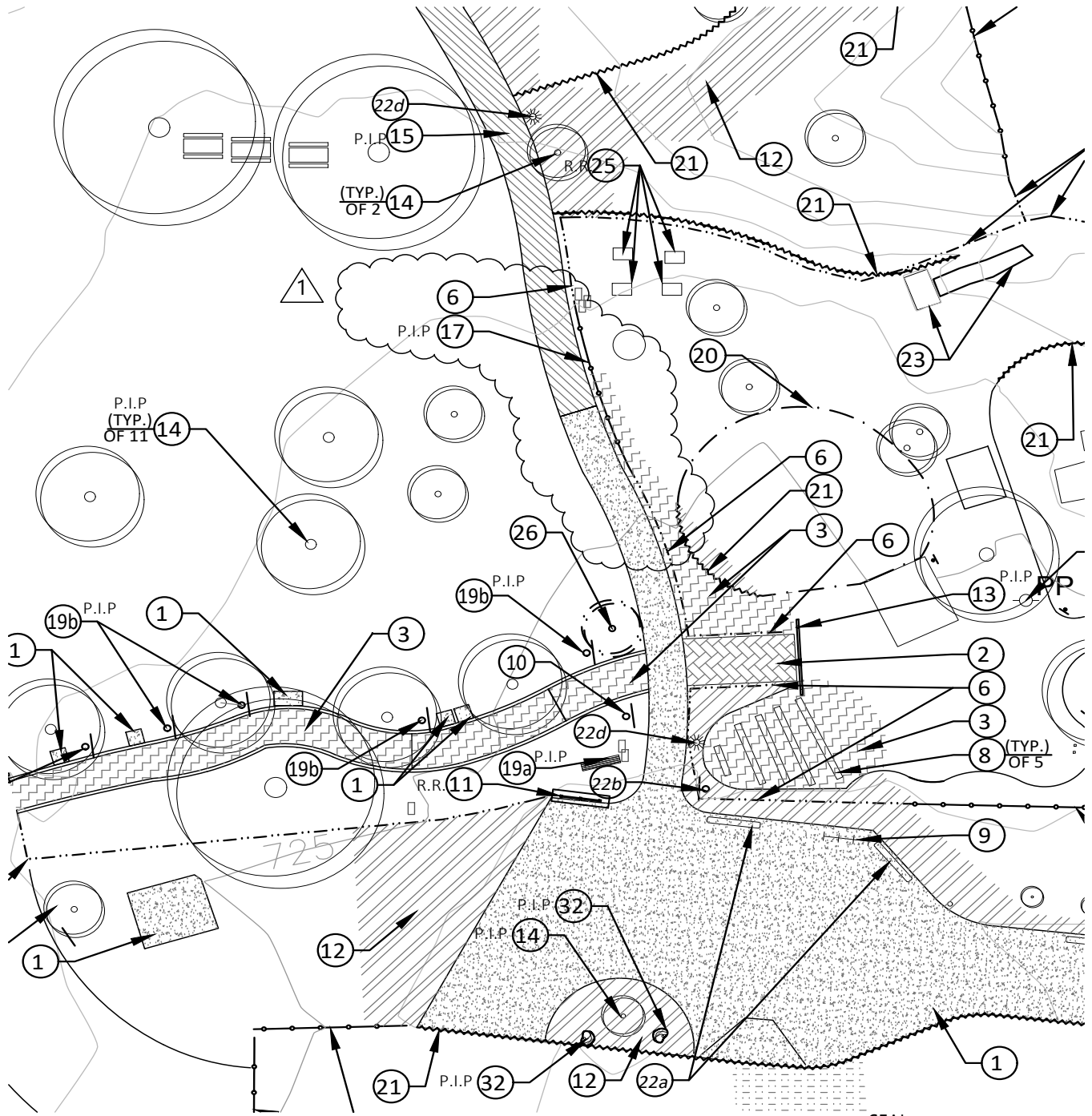
ADDENDUM #3 8/15/24
CONCRETE AND SEPTIC



SCALE:NTS



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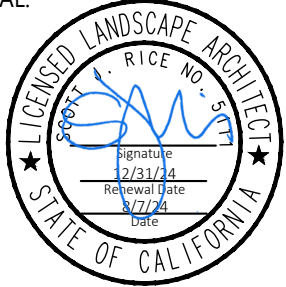


DEMOLITION LEGEND:

DESCRIPTION	QTY.
① EXISTING CONCRETE PAVING SHALL BE SAWCUT, DEMOLISHED, AND REMOVED.	① 7,932 S.F.

ABBREVIATIONS:
 R.R.= REMOVE AND RELOCATE
 O.R.= OWNERS REPRESENTATIVE
 P.I.P.= PROTECT IN PLACE

SEAL:



LANDSCAPE SHEET LD-1

Sheet Revision 3 of 4

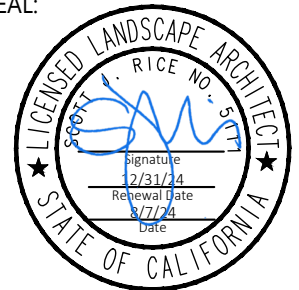
HIDDEN VALLEY NATURE CENTER	PREPARED FOR: RIVERSIDE COUNTY PARKS	 SCALE: NTS	 7111 INDIANA AVENUE Riverside, CA 92504 (951) 369-0700 Fax (951) 369-4039 www.cwdg.fun
	DESCRIPTION: ADDENDUM #3 8/15/24 CONCRETE AND SEPTIC		

DEMOLITION LEGEND:

ABBREVIATIONS:
 R.R.= REMOVE AND RELOCATE
 O.R.= OWNERS REPRESENTATIVE
 P.I.P.= PROTECT IN PLACE

DESCRIPTION	QTY.	
① EXISTING CONCRETE PAVING SHALL BE SAWCUT, DEMOLISHED, AND REMOVED.	7,932 S.F.	
② EXISTING PAVERS SHALL BE DEMOLISHED AND REMOVED.	135 S.F.	
③ EXISTING DECOMPOSED GRANITE SURFACING SHALL BE REMOVED. SAWCUT AND REMOVE CONCRETE EDGING.	1,311 S.F.	
④ R.R. EXISTING AGGREGATE BASE SHALL BE REMOVED TO A DEPTH OF 6". REDISTRIBUTE/ FILLS LOWS- RUTS IN PARKING AREA AS NEEDED	48 C.Y.	
⑤ EXISTING WOOD TIE PARKING EDGING SHALL BE REMOVED. SAVE TO REUSE IF DEEMED APPROPRIATE BY O.R. OTHERWISE HAUL OFF AND DISPOSE OF OFFSITE IN A LEGAL MANNER.		
⑥ EXISTING SPLIT RAIL FENCE SHALL BE REMOVED TO NEAREST SUPPORT POST. PALLETIZE SERVICEABLE RAILS AND POST TO REUSE IF DEEMED APPROPRIATE BY O.R. OTHERWISE HAUL OFF AND DISPOSE OF OFFSITE IN A LEGAL MANNER.	435 L.F.	
⑦ P.I.P. EXISTING AMPHITHEATER SEATING SHALL BE PROTECTED IN PLACE.		
⑧ EXISTING TEACHING AREA BENCHES SHALL BE REMOVED AND RELOCATED. SEE CONSTRUCTION PLAN FOR NEW LOCATION. CONTRACTOR TO REUSE HORIZONTAL WOOD MEMBERS- BASE POST TO BE REPLACED WITH NEW.		
⑨ EXISTING BIKE RACK SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.		
⑩ R.R. EXISTING SIGN; SHALL BE REMOVED AND RELOCATED. SEE CONSTRUCTION PLAN FOR NEW LOCATION		
⑪ R.R. EXISTING INFORMATIONAL KIOSK SHALL BE REMOVED AND RELOCATED. SEE CONSTRUCTION PLAN FOR NEW LOCATION. CONTRACTOR TO VERIFY STRUCTURAL CONDITION. NOTIFY O.R. OF FINAL ASSESSMENT. CONTRACTOR BID TO INCLUDE ANY REPLACEMENT OF STRUCTURE NEEDED TO MOVE AND REINSTALL PER PLAN.		
⑫ CLEAR AND GRUB EXISTING PLANTING AND TURF AREAS. DISPOSE OF OFFSITE IN A LEGAL MANNER. CAP AND REMOVE EXISTING IRRIGATION HEADS. LATERAL LINES SHALL BE ABANDONED IN PLACE WHERE NOT AFFECTED BY CONSTRUCTION ACTIVITIES.	29,704 S.F.	
⑬ P.I.P. EXISTING OVERHEAD STRUCTURE SHALL REMAIN, PROTECT IN PLACE		
⑭ P.I.P. EXISTING TREE & ROOTS SHALL REMAIN, PROTECT IN PLACE. (EXCEPTION: ANY DEAD OR DYING TREES AT TIME OF BID SHALL BE INCLUDED TO BE REMOVED)		
⑮ P.I.P. EXISTING CONCRETE WALK SHALL REMAIN, PROTECT IN PLACE.		
⑯ P.I.P. EXISTING D.G. PATH AND CONCRETE EDGING SHALL REMAIN, PROTECT IN PLACE		
⑰ P.I.P. EXISTING SPLIT-RAIL WOOD FENCE SHALL REMAIN, PROTECT IN PLACE		
⑱ P.I.P. EXISTING AMPHITHEATER RETAINING WALLS SHALL REMAIN, PROTECT IN PLACE		
⑲ P.I.P. EXISTING (a) BENCH; (b) SIGN; SHALL REMAIN, PROTECT IN PLACE		
⑳ P.I.P. EXISTING CONCRETE CURB SHALL REMAIN, PROTECT IN PLACE		

SEAL:



LANDSCAPE SHEET LD-2

Sheet Revision 4 of 4

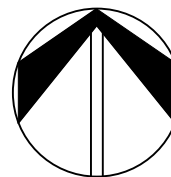
HIDDEN VALLEY
NATURE CENTER

PREPARED FOR:

RIVERSIDE COUNTY
PARKS

DESCRIPTION:

ADDENDUM #3 8/15/24
CONCRETE AND SEPTIC



SCALE:NTS



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Riverside County Regional Park and Open-Space District

Kyla Brown, Parks Director / General Manager

ADDENDUM #4

Bid No. PKARC-278 HIDDEN VALLEY NATURE CENTER MODERNIZATION

August 20, 2024

Addendum documentation:	4 Pages, 6 items
8 ½" x 11" Addendum Drawings	2 Sheets
24" x 36" Addendum Drawings	0 Sheets
Specification Sections	0 Specs

The following is issued to supplement or revise the Contract Documents. The revisions to the documents are described below. Unless specifically changed by this addendum, the remainder of the drawings, documents, and specifications shall remain in effect as originally issued. It is the obligation of the contractor to make subcontractors aware of this addendum.

General Note: Any dates and times originally published by the Riverside County Board of Supervisors are subject to change. Changes are reflected in the bid documents and any addenda that may be issued thereto.

GENERAL & BID DOCUMENTS:

1. Contractors shall not be allowed to pull water from the fire hydrant.
2. Please see reference documents, particularly RefDoc1 to understand the layout of the water tank in association with the area of work and connections.
3. SoCalEdison's work plans are being finalized. The work on those plans are outside of the scope of work of this project. It is anticipated that full completion of their plans shall be done prior to start of work, and the District expects a written confirmation of work schedule for SoCalEdison's work immediately following the finalization of their plans.
4. Site Access: The primary access gate at Arlington Ave. is controlled by District staff. Contractor shall be provided a key. If the Contractor unlocks the gate to enter or exit it shall be relocked after.
5. Hours of work shall be per General Conditions 15.2.
6. Revisions to key details on the Civil sheets are hereby issued. 2 - 8.5" x 11" pages. See chart PLANS below.

SPECIFICATIONS:

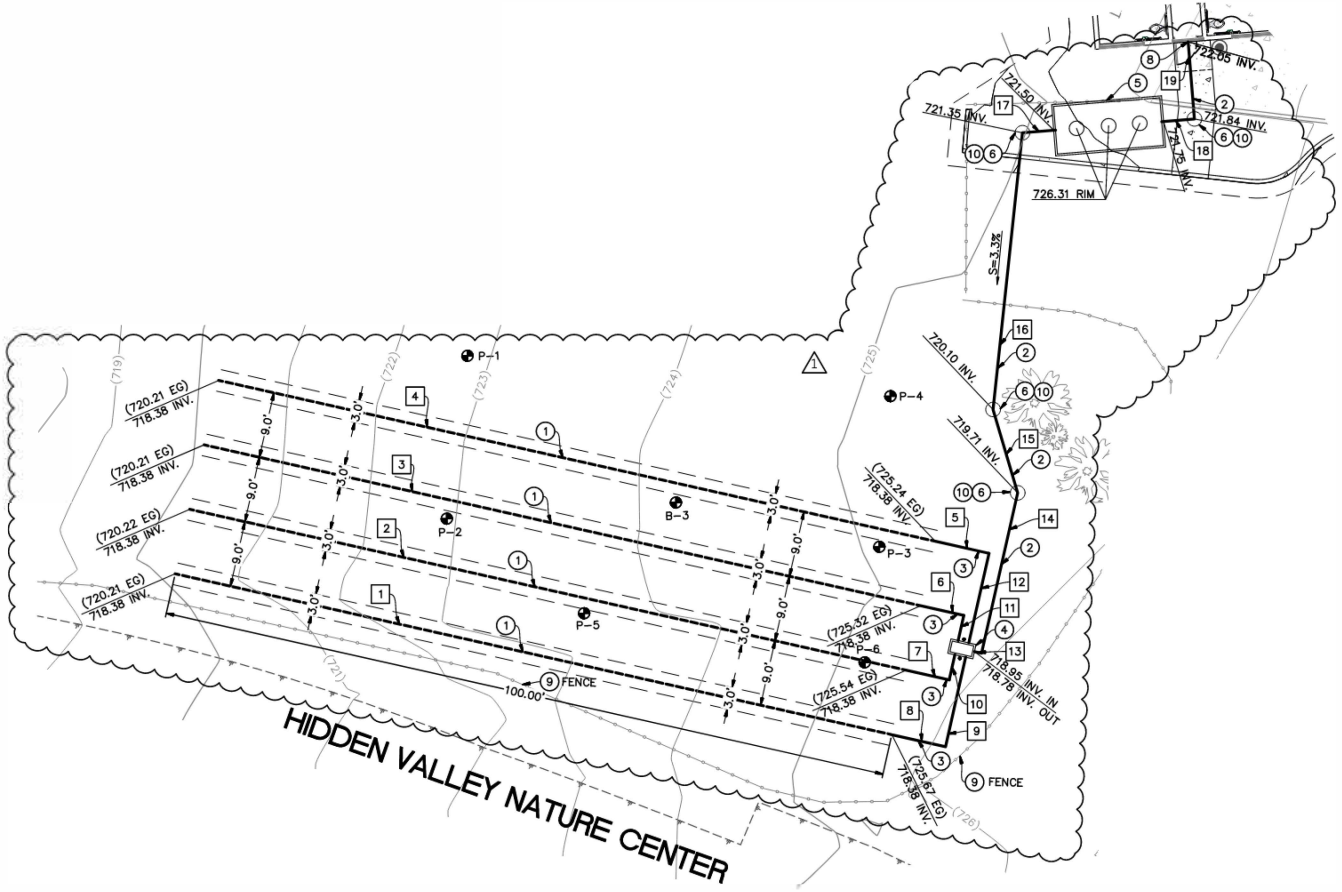
None.



PLANS:

#	Plan Sheet Full Reference	Change
1	SS-1 – Revision to Detail	Issued revised detail and dimensions for the restroom septic leach field
2	GP-3 and GP-4 – Revision to Detail	Issued a single page revision which applies to both sheets to adjust dimensions associated with the sidewalk.

END OF ADDENDUM 4



SEPTIC SYTEM CONSTRUCTION NOTES:

- ① CONSTRUCT LEACH FIELD AS SHOWN ON PLANS AND PER TYPICAL LEACH FIELD CROSS SECTION, SEE SHEET SP-2.
- ② CONSTRUCT 6" SDR-35 PVC PIPE AS SHOWN ON PLANS AND TRENCH BACKFILL DETAIL, SEE SHEET SP-2.
- ③ CONSTRUCT 4" SDR-35 PVC PIPE AS SHOWN ON PLANS AND TRENCH BACKFILL DETAIL, SEE SHEET SP-2.
- ④ CONSTRUCT 11" X 15.5" JENSEN MODEL D5 PRECAST DISTRIBUTION BOX OR APPROVED EQUAL.
- ⑤ CONSTRUCT 15' X 17' OLDCASTLE MODEL CST-3500 PRECAST SEPTIC TANK OR APPROVED EQUAL.
- ⑥ CONSTRUCT 6" SEWER CLEAN OUT AS SHOWN ON PLANS AND PER R.C.T.D. STANDARD NO. 603, SEE SHEET SP-2.
- ⑦ PROTECT IN PLACE EXISTING TREE.
- ⑧ CONNECT TO EXISTING PREMANUFACTURED RESTROOMS SEWER PIPE AS REQUIRED.
- ⑨ PROTECT IN PLACE AS NOTED.
- ⑩ CONSTRUCT 5" THICK LAYER OF 3/8" TO 1/2" CRUSHED ROCK BELOW CONCRETE COLLAR CLEAN OUT.



— APPROXIMATE PERCOLATION (P-#)
AND BORING LOCATION (B-#)



SCALE: N.T.S.

REVISIONS:



**ADDENDUM #4 - 8/20/24
CONCRETE AND SEPTIC**



TKE ENGINEERING, INC.
2305 CHICAGO AVENUE
RIVERSIDE, CA 92507
(951) 680-0440

Terry Renner
TERRY M. RENNER P.E. No. 69984

08/16/2024
DATE

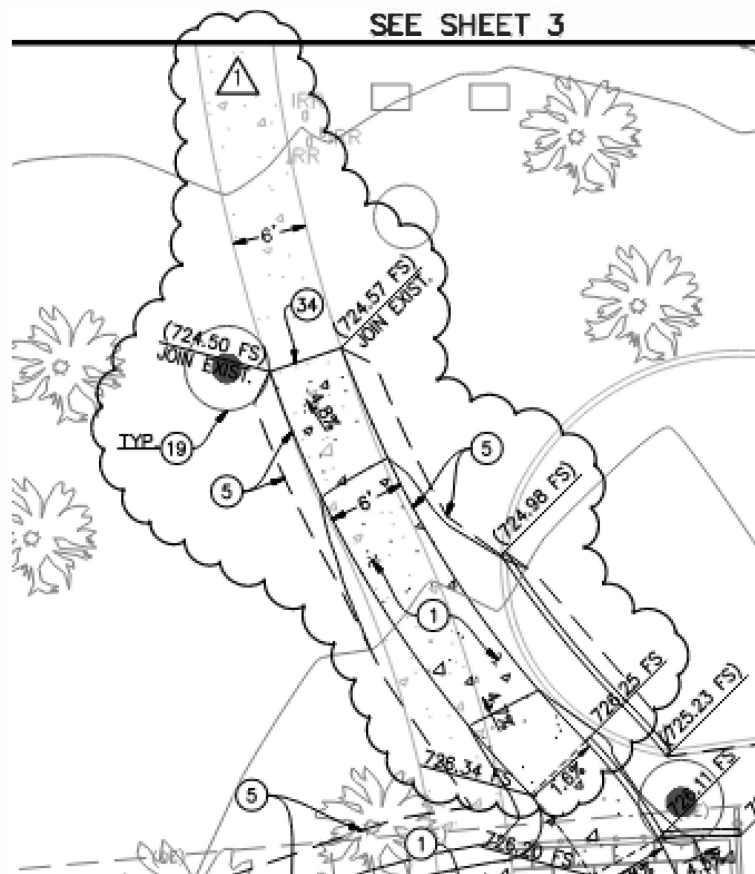


SHEET SS-1

**ADDENDUM 4
ENTRANCE RESTROOM
SEPTIC SYSTEM REVISION**



**SEE SHEET 4
AREA 5**



REVISIONS:

1 ADDENDUM #4 - 8/20/24
CONCRETE AND SEPTIC



SCALE: N.T.S.



TKE ENGINEERING, INC.
2305 CHICAGO AVENUE
RIVERSIDE, CA 92507
(951) 680-0440



SHEET GP-3/GP-4

**ADDENDUM 4
SIDEWALK REVISION**

Terry Renner
TERRY M. RENNER P.E. No. 69984 08/16/2024
DATE



Riverside County Regional Park and Open-Space District

Kyla Brown, Parks Director / General Manager

ADDENDUM #5

Bid No. PKARC-278

HIDDEN VALLEY NATURE CENTER MODERNIZATION

August 27, 2024

Addendum documentation:	3 Page(s), 7 items
8 ½" x 11" Addendum Drawings	0 Sheets
24" x 36" Addendum Drawings	0 Sheets
Specification Sections	0 Specs

The following is issued to supplement or revise the Contract Documents. The revisions to the documents are described below. Unless specifically changed by this addendum, the remainder of the drawings, documents, and specifications shall remain in effect as originally issued. It is the obligation of the contractor to make subcontractors aware of this addendum.

General Note: Any dates and times originally published by the Riverside County Board of Supervisors are subject to change. Changes are reflected in the bid documents and any addenda that may be issued thereto.

GENERAL & BID DOCUMENTS:

- This project does not trigger use and reporting of a Skilled & Trained Workforce** as defined in the Public Contract Code.
- Clarification – Additive Alternate #1:** The alternate for the Wooden Shade Shelter shall include all work associated with the installation of the shelter including the slab, footings, electric and lighting work, complete.
- Special Conditions: Paragraph 3. Deferred Approvals Item 1.** Restroom Building – Basis of Design Romtec shall be appended to include the model number: "ID# 2334".

Note: Please reference the building model ID# and contact the manufacturer for additional information about the building.
- Special Conditions: Paragraph 3. Deferred Approvals Item 3.** Alternate #1 Wooden Shade Shelter – Basis of Design Forever Redwood if awarded shall be appended to include the following additional language about the model:

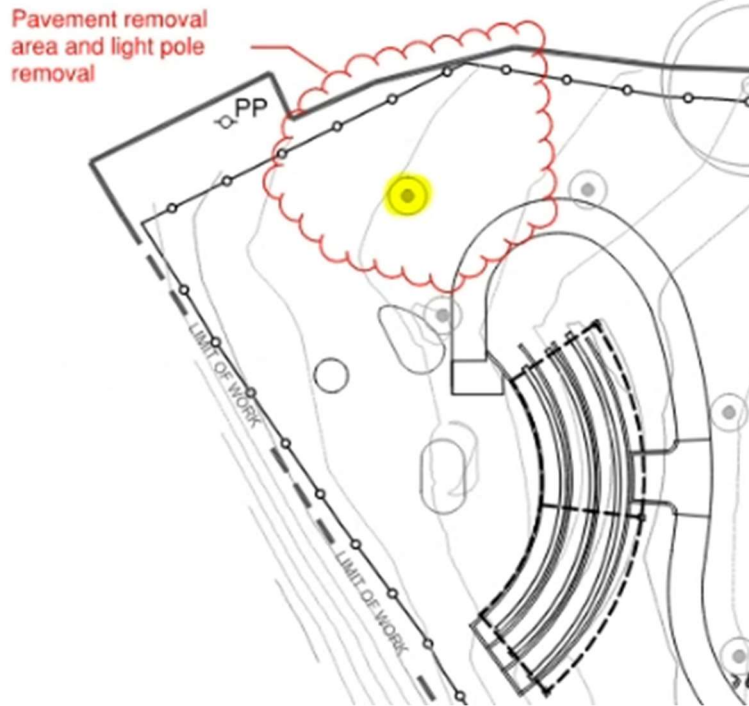
"El Paso Wedding Pavilion: 60x40, Douglas-fir (10 yr Warranty), Metal Roof; Without Skylight; No curtain rods; No ceiling fan base; No Chimney Removable Cutout, no Bahama Shutters, no TV mount base, accessory bases or shelving; Post height 10'; no electrical wiring trim kit or post decorative trim; Bolts Materials Type shall be Zinc Plated hardware (recommended for dry climates); 10-post stainless steel high-wind anchor kit; Transparent Premium Sealant."
- Specification section 12 93 00 Site Furnishings:** Replace paragraph 2.03. item A. in its entirety as follows: "A. Basis of Design ROMTEC ID# 2334."



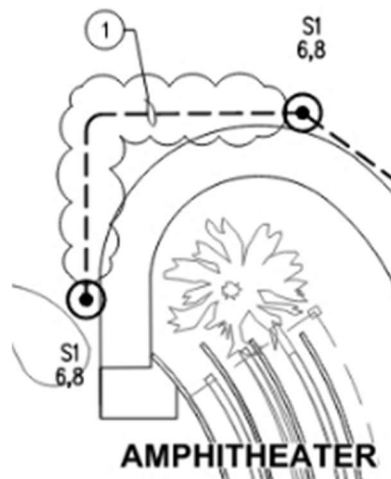
- Scope removed near new pavilion:** The scope of work to add a concrete walk and small gathering area adjacent to the fence line with a new light pole and 2 benches is hereby removed from scope. This includes work associated with this area on all plans inclusive of demolition, electrical, and architectural.

Irrigation shall be revised to generally follow the line of the revised walkway.

The area shall now be constructed per this revised walkway approach:



Site Electrical Plan E-4 is hereby revised as follows and no new pole and light is required:



7. **Site Electrical Plan E-4 Construction Notes 6 and 7** are hereby replaced in their entirety with the revised wording below:

- ⑥ POWER UTILITY SECONDARY CONDUIT. PROVIDE (1) 3" CONDUIT AS SPECIFIED BY UTILITY COMPANY. VERIFY SIZE AND QUANTITY OF CONDUITS REQUIRED WITH UTILITY COMPANY PRIOR TO BID. ALL WORK TO BE DONE FROM UTILITY CO. APPROVED PLANS AND APPROVED BY THE UNDERGROUND INSPECTOR.
- ⑦ POINT OF CONNECTION TO POWER UTILITY COMPANY AT UTILITY POLE. VERIFY EXACT LOCATION WITH UTILITY SERVICE PLANNER AND APPROVED UTILITY PLANS.

SPECIFICATIONS & PLANS – None issued.

END OF ADDENDUM 5



Riverside County Regional Park and Open-Space District

Kyla Brown, Parks Director / General Manager

ADDENDUM #6

Bid No. PKARC-278 HIDDEN VALLEY NATURE CENTER MODERNIZATION

August 30, 2024

Addendum documentation:	2 Pages, 11 items
8 1/2" x 11" Addendum Drawings	8 Pages (Attached)
24" x 36" Addendum Drawings	0 Sheets
Specification Sections	0 Specs

The following is issued to supplement or revise the Contract Documents. The revisions to the documents are described below. Unless specifically changed by this addendum, the remainder of the drawings, documents, and specifications shall remain in effect as originally issued. It is the obligation of the contractor to make subcontractors aware of this addendum.

General Note: Any dates and times originally published by the Riverside County Board of Supervisors are subject to change. Changes are reflected in the bid documents and any addenda that may be issued thereto.

GENERAL & BID DOCUMENTS:

1. Clarification: Irrigation

Q: What model ball valve or gate valve is needed for irrigation?

A: For 1.5" and under the Nibco T-585 -70 shall be used, for 2" and above a F-619-rws-son shall be installed.

2. Clarification: Irrigation

Q: What model QCV on the irrigation plan?

A: 44-LRC 1", 1-inch QCV keys shall be included.

3. Clarification: Irrigation

Q: What model & size for the backflow and enclosure?

A: Backflow shall be 2.5" LF860-FS with a Strongbox SBBC-75CR.

4. Revise key detail on Sheet LA-1 Accessibility with an updated Accessibility path of Travel area.

5. Revise key detail on Sheet LD-1 Demolition to incorporate a modification to the Demolition Legend for the concrete quantity to be demolished.

6. Revise key detail on Sheet LD-2 Demolition to incorporate a modification to the concrete quantity to be demolished and area.



7. **Revise Sheet GP-1 Civil Site Grading Plan** to address revised area of work.
8. **Revise Sheet LC-2 Construciton Plan** to address revised area of work and Finish Surface Quantity.
9. **Revise Sheet LI-2 Irrigation Plan** to update irrigation.
10. **Revise Sheet LP-1 Planing Plan** Planting Legend for plant and reseed quantities.
11. **Revise Sheet LP-2 Planing Plan** to revise plant and reseed quantity.

**See attached 8.5 x 11 pages for details on items 4-11,
incorporated herewith by reference.**

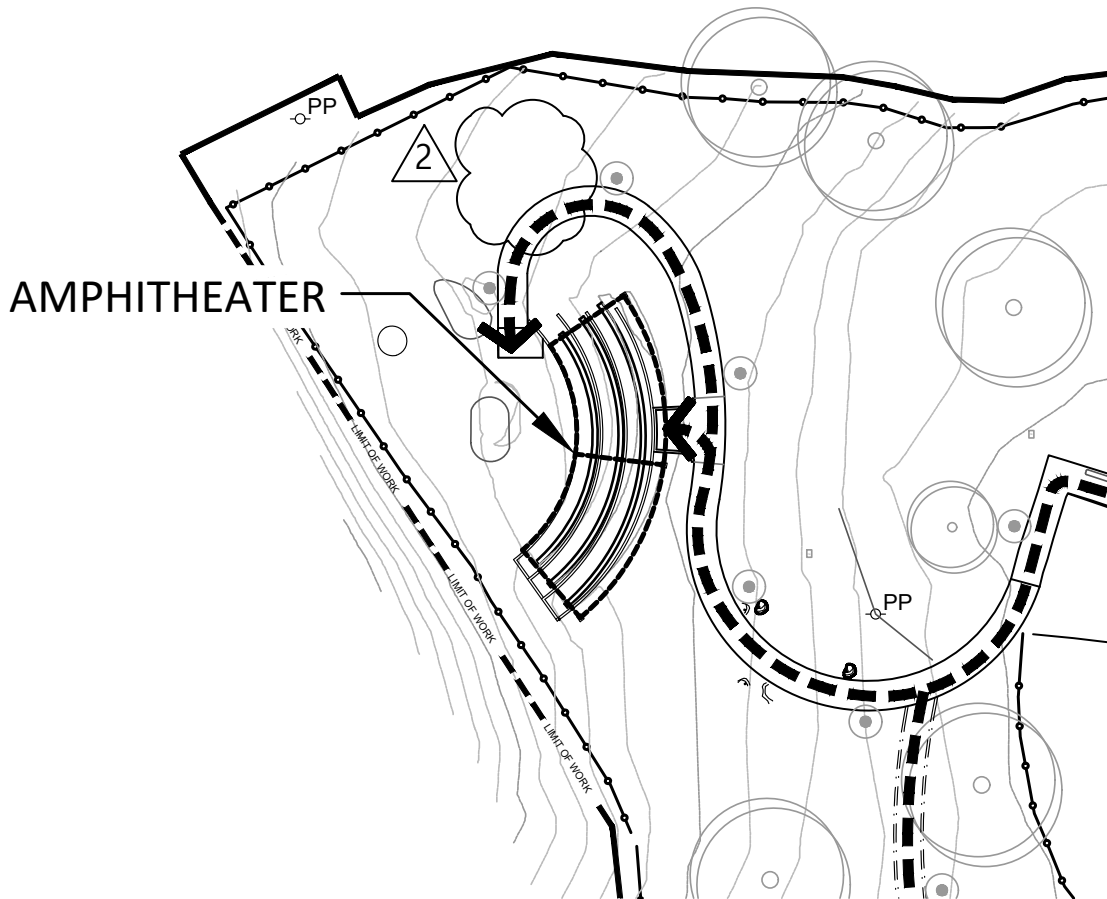
SPECIFICATIONS:

None.

PLANS – FULL SIZE:

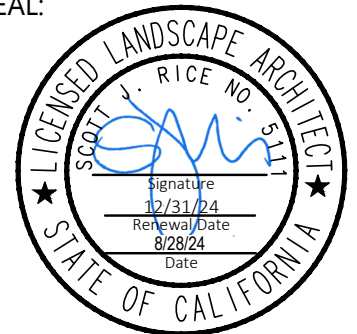
None

END OF ADDENDUM #6



AMPHITHEATER

SEAL:

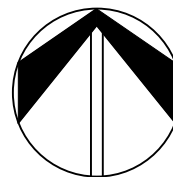


LANDSCAPE SHEET LA-1

HIDDEN VALLEY
NATURE CENTER

PREPARED FOR:
RIVERSIDE COUNTY
PARKS

DESCRIPTION:
ADDENDUM NO.6
PCC REMOVAL



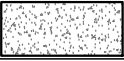

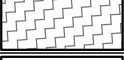
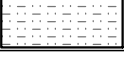

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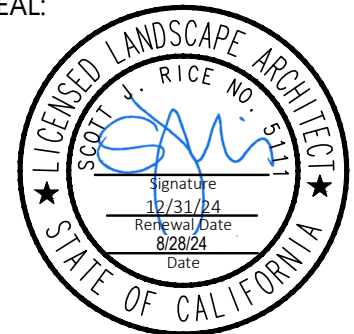
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(951) 369-0700
Fax (951) 369-4039
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DEMOLITION LEGEND:

ABBREVIATIONS:
 R.R.= REMOVE AND RELOCATE
 O.R.= OWNERS REPRESENTATIVE
 P.I.P.= PROTECT IN PLACE

	DESCRIPTION	QTY.	
①	EXISTING CONCRETE PAVING SHALL BE SAWCUT, DEMOLISHED, AND REMOVED.	7,932 S.F.	
②	EXISTING PAVERS SHALL BE DEMOLISHED AND REMOVED.	135 S.F.	
③	EXISTING DECOMPOSED GRANITE SURFACING SHALL BE REMOVED. SAWCUT AND REMOVE CONCRETE EDGING.	1,311 S.F.	
④ R.R.	EXISTING AGGREGATE BASE SHALL BE REMOVED TO A DEPTH OF 6". REDISTRIBUTE/ FILLS LOWS- RUTS IN PARKING AREA AS NEEDED	48 C.Y.	
⑤	EXISTING WOOD TIE PARKING EDGING SHALL BE REMOVED. SAVE TO REUSE IF DEEMED APPROPRIATE BY O.R. OTHERWISE HAUL OFF AND DISPOSE OF OFFSITE IN A LEGAL MANNER.		--- x ---
⑥	EXISTING SPLIT RAIL FENCE SHALL BE REMOVED TO NEAREST SUPPORT POST. PALLETIZE SERVICEABLE RAILS AND POST TO REUSE IF DEEMED APPROPRIATE BY O.R. OTHERWISE HAUL OFF AND DISPOSE OF OFFSITE IN A LEGAL MANNER.	435 L.F.	- - - - -
⑦ P.I.P	EXISTING AMPHITHEATER SEATING SHALL BE PROTECTED IN PLACE.		
⑧	EXISTING TEACHING AREA BENCHES SHALL BE REMOVED AND RELOCATED. SEE CONSTRUCTION PLAN FOR NEW LOCATION. CONTRACTOR TO REUSE HORIZONTAL WOOD MEMBERS- BASE POST TO BE REPLACED WITH NEW.		
⑨	EXISTING BIKE RACK SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.		
⑩ R.R.	EXISTING SIGN; SHALL BE REMOVED AND RELOCATED. SEE CONSTRUCTION PLAN FOR NEW LOCATION		
⑪ R.R.	EXISTING INFORMATIONAL KIOSK SHALL BE REMOVED AND RELOCATED. SEE CONSTRUCTION PLAN FOR NEW LOCATION. CONTRACTOR TO VERIFY STRUCTURAL CONDITION. NOTIFY O.R. OF FINAL ASSESSMENT. CONTRACTOR BID TO INCLUDE ANY REPLACEMENT OF STRUCTURE NEEDED TO MOVE AND REINSTALL PER PLAN.		
⑫	CLEAR AND GRUB EXISTING PLANTING AND TURF AREAS. DISPOSE OF OFFSITE IN A LEGAL MANNER. CAP AND REMOVE EXISTING IRRIGATION HEADS. LATERAL LINES SHALL BE ABANDONED IN PLACE WHERE NOT AFFECTED BY CONSTRUCTION ACTIVITIES.	28,874 S.F.	

SEAL:



LANDSCAPE SHEET LD-1

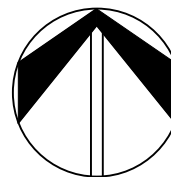
HIDDEN VALLEY
NATURE CENTER

PREPARED FOR:

RIVERSIDE COUNTY
PARKS

DESCRIPTION:

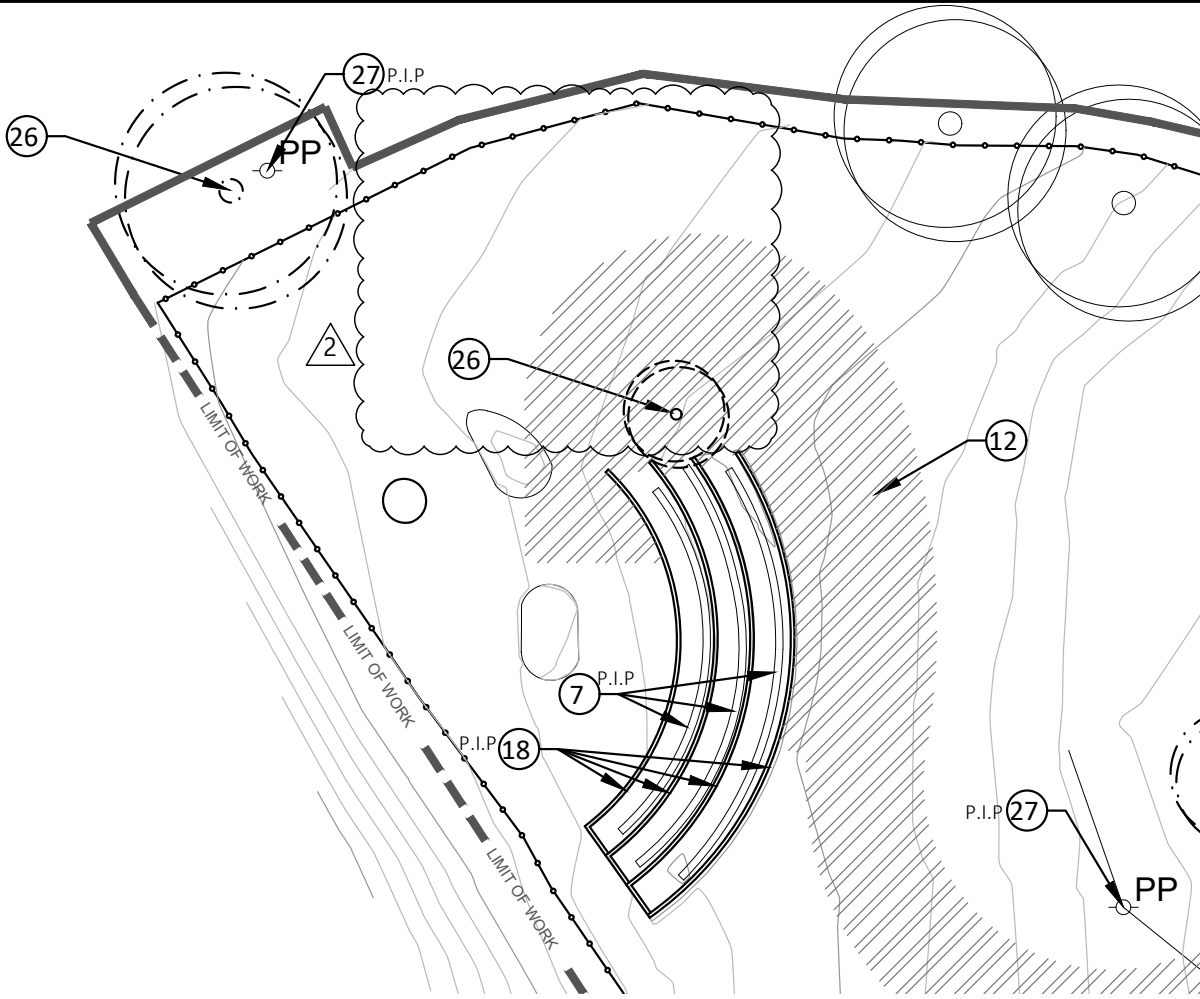
ADDENDUM NO.6
PCC REMOVAL



SCALE:NTS



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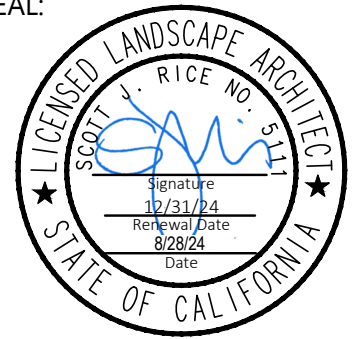


DEMOLITION LEGEND:

ABBREVIATIONS:
 R.R.= REMOVE AND RELOCATE
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 P.I.P= PROTECT IN PLACE

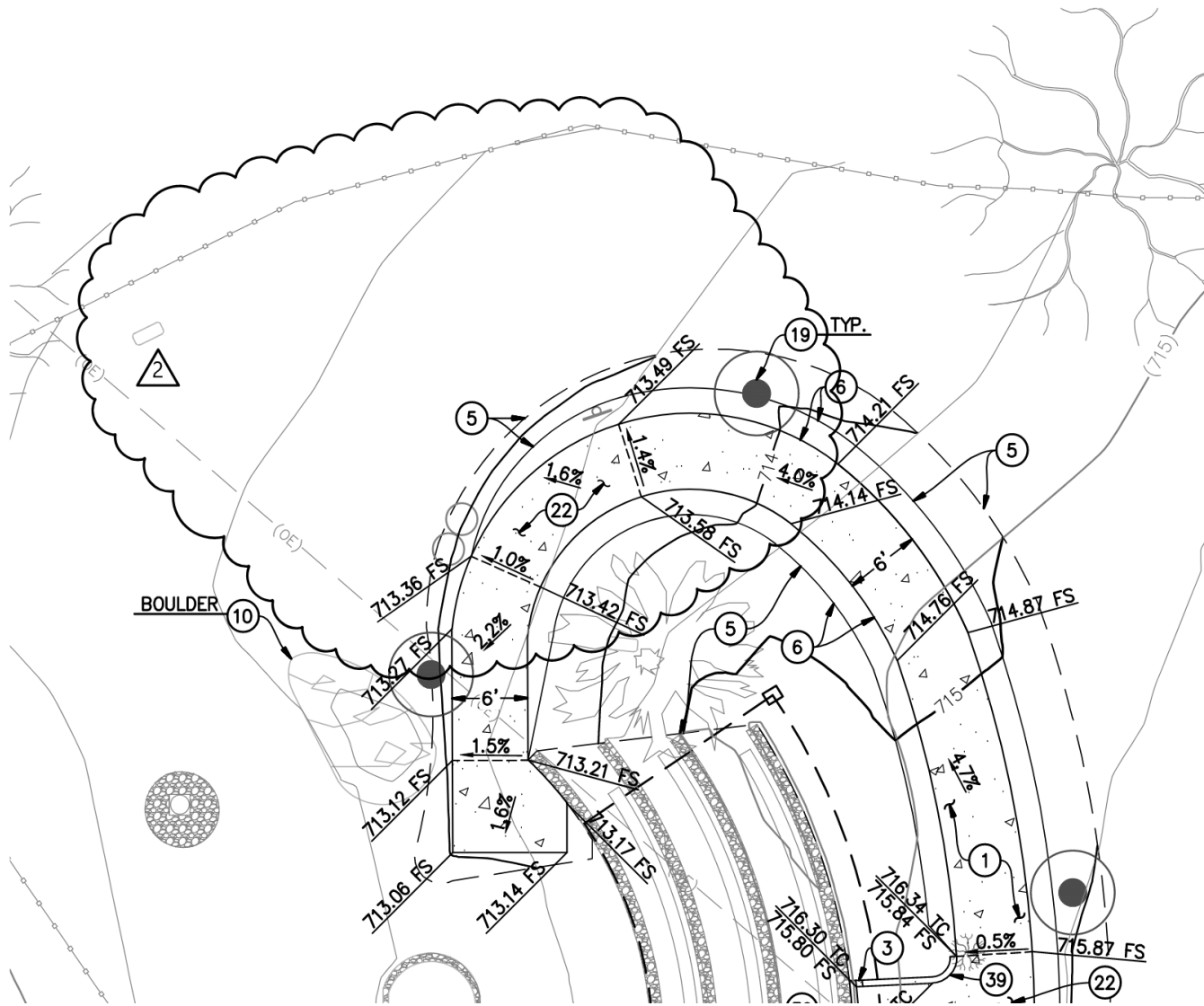
DESCRIPTION	QTY.
① EXISTING CONCRETE PAVING SHALL BE SAWCUT, DEMOLISHED, AND REMOVED.	△ 7,932 S.F.
② EXISTING PAVERS SHALL BE DEMOLISHED AND REMOVED.	135 S.F.
③ EXISTING DECOMPOSED GRANITE SURFACING SHALL BE REMOVED. SAWCUT AND REMOVE CONCRETE EDGING.	1,311 S.F.
④ R.R. EXISTING AGGREGATE BASE SHALL BE REMOVED TO A DEPTH OF 6". REDISTRIBUTE/ FILLS LOWS- RUTS IN PARKING AREA AS NEEDED	48 C.Y.

SEAL:



LANDSCAPE SHEET LD-2

HIDDEN VALLEY NATURE CENTER	PREPARED FOR: RIVERSIDE COUNTY PARKS	<p>SCALE:NTS</p>	
	DESCRIPTION: ADDENDUM NO.6 PCC REMOVAL		



REVISIONS:

2 ADDENDUM #6 - 8/23/24
PAVING REMOVAL



SCALE: N.T.S.



TKE ENGINEERING, INC.
2305 CHICAGO AVENUE
RIVERSIDE, CA 92507
(951) 680-0440

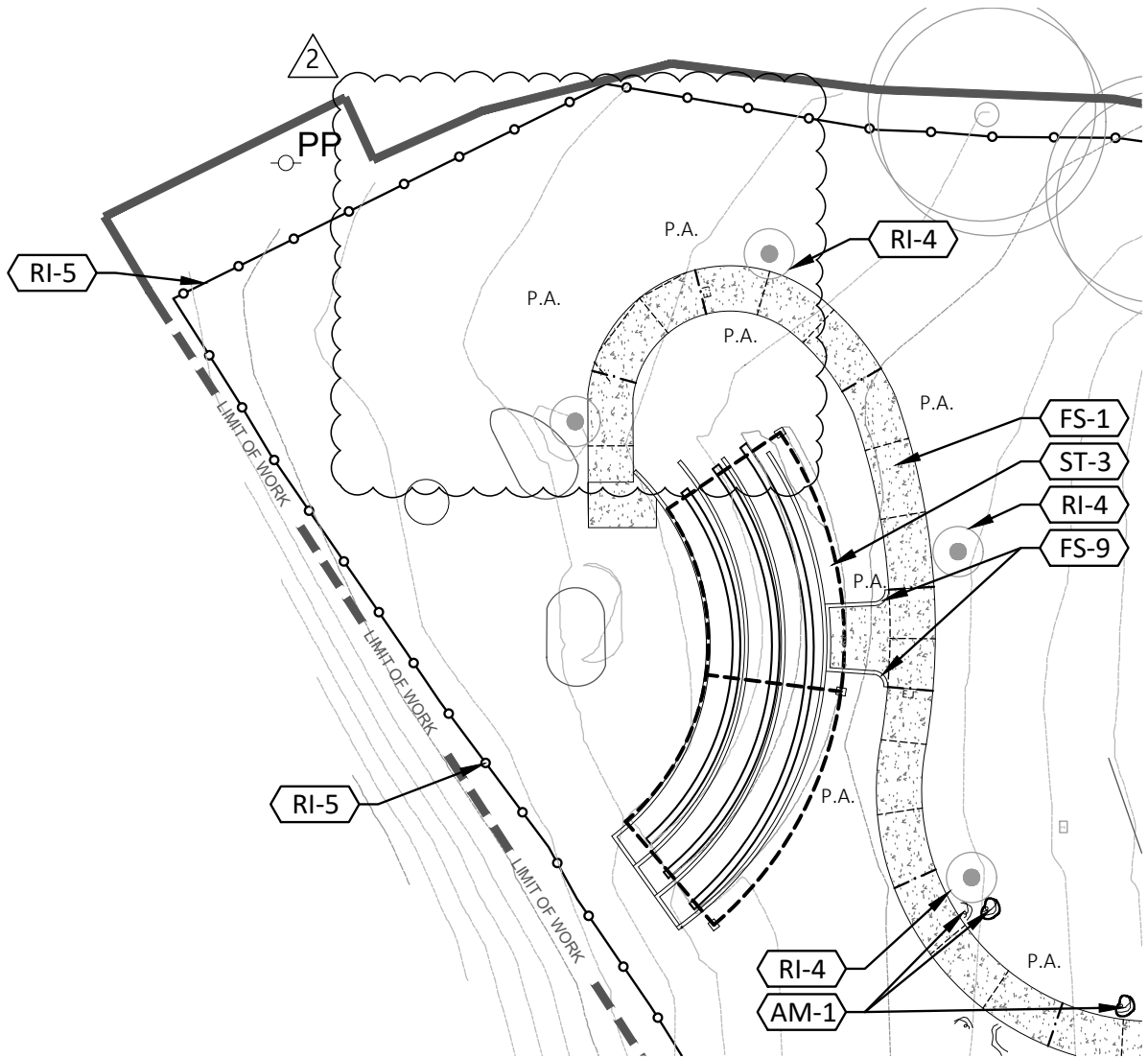
Terry Renner
TERRY M. RENNER P.E. No. 69984

08/23/2024
DATE



SHEET GP-1

**ADDENDUM 6
PROPOSED PCC
PAD REMOVAL**



FINISHED SURFACES

	CONSTRUCT 4" NATURAL GRAY CONCRETE FLATWORK WITH MEDIUM BROOM FINISH, UNLESS OTHERWISE NOTED. STAINED CONCRETE PAVING. COLOR TO BE SELECTED TO MATCH EXISTING.		 7,654 S.F.	DETAIL 'A', SHEET LC-5
	CONSTRUCT 4" THICK CONCRETE FLATWORK. CHROMIX INTEGRAL COLOR C-27 'WESTWOOD BROWN'. STAMP LITHOTEX 'QUARTZITE STRATA' TEXTURE WITH LITHOCHROME A-24 'RUSSET' ANTIQUING RELEASE. AVAILABLE FROM LM SCOFIELD.		1,375 S.F.	DETAILS 'A' SHEET LC-5

SEAL:

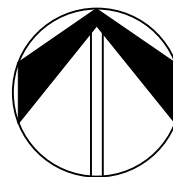


LANDSCAPE SHEET LC-2

HIDDEN VALLEY
NATURE CENTER

PREPARED FOR:
**RIVERSIDE COUNTY
PARKS**

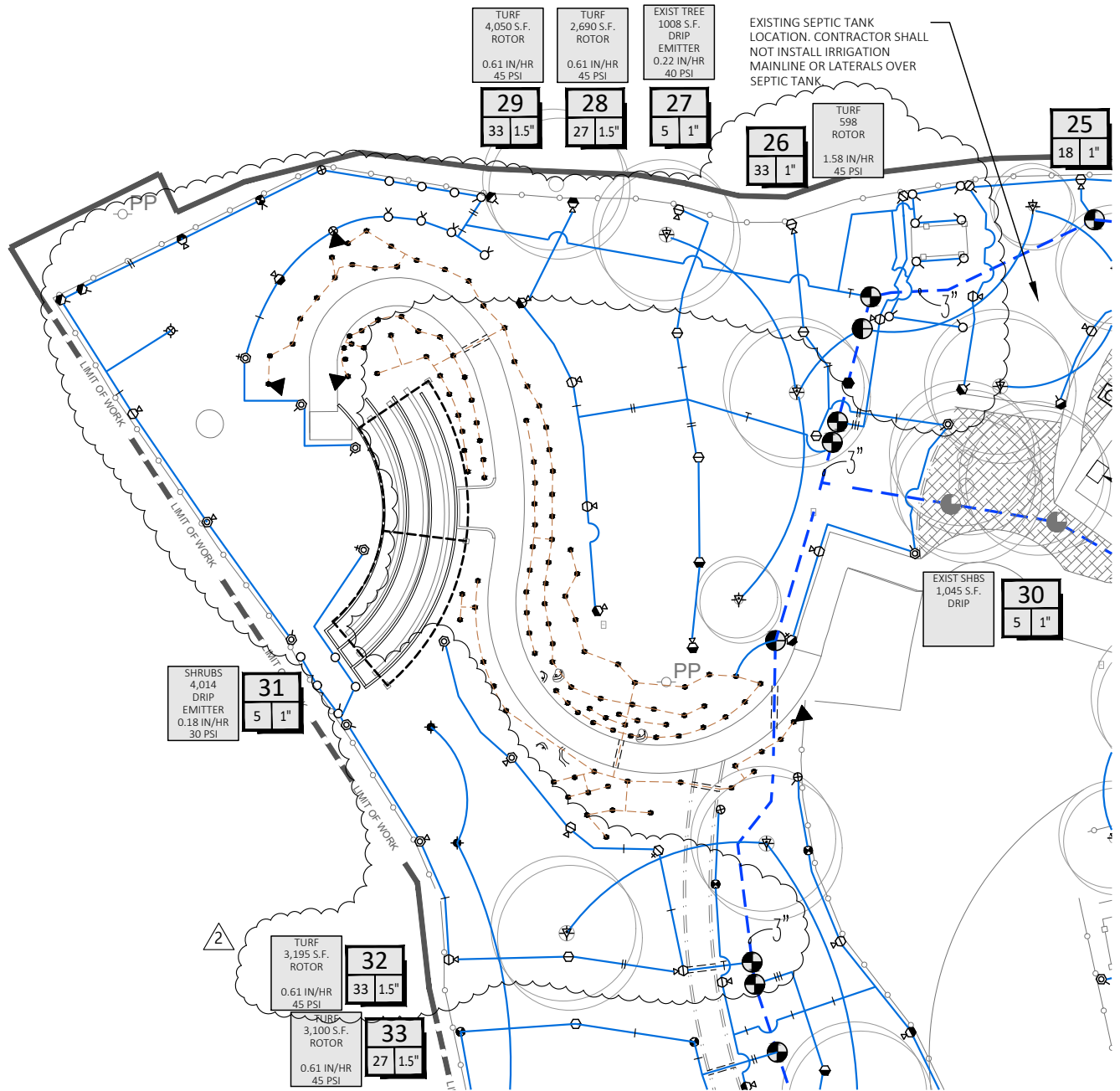
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**ADDENDUM NO.6
PCC REMOVAL**



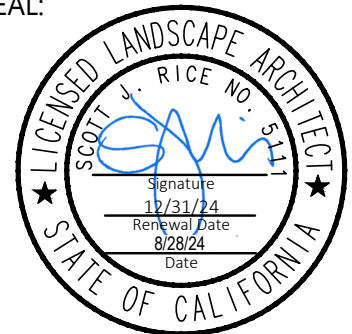
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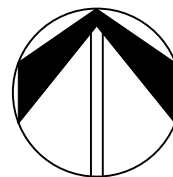


LANDSCAPE SHEET LI-2

HIDDEN VALLEY
NATURE CENTER

PREPARED FOR:
RIVERSIDE COUNTY
PARKS

DESCRIPTION:
ADDENDUM NO.6
PCC REMOVAL



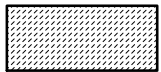
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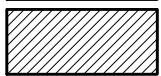
7111 INDIANA AVENUE
Riverside, CA 92504
(951) 369-0700
Fax (951) 369-4039
www.cwdg.fun

PLANTING LEGEND:

SHRUBS / VINES	BOTANICAL NAME	COMMON NAME	SIZE / SPACING	QTY.	WUCOLS	DETAIL
	<i>Abutilon palmeri</i>	PALMER'S INDIAN MALLOW	1 GAL.	18	LOW	'C', LP-3
	<i>Baccharis sarothroides</i>	BROOM BACCHARIS	1 GAL.	3	LOW	'C', LP-3
	<i>Ceanothus cuneatus</i>	WEDGELEAF CEANOTHUS	5 GAL.	7	LOW	'C', LP-3
	<i>Diplacus longiflorus</i>	SOUTHERN MONKEY FLOWER	1 GAL.	21	LOW	'C', LP-3
	<i>Encelia farinosa</i>	BRITTLEBUSH	1 GAL.	26	V. LOW	'C', LP-3
	<i>Epilobium canum</i>	CALIFORNIA FUCHSIA	5 GAL.	40	LOW	'C', LP-3
	<i>Eriogonum fasciculatum</i>	CALIFORNIA BUCKWHEAT	1 GAL.	45	LOW	'C', LP-3
	<i>Eriophyllum confertiflorum</i>	GOLDEN YARROW	1 GAL.	132	V. LOW	'C', LP-3
	<i>Heteromeles arbutifolia</i>	TOYON	5 GAL.	3	LOW	'C', LP-3
	<i>Isomeris arborea</i>	BLADDERPOD	5 GAL.	53	V. LOW	'C', LP-3
	<i>Juncus patens 'Elk Blue'</i>	ELK BLUE CA. GRAY RUSH	1 GAL.	19	LOW	'C', LP-3
	<i>Leymus condensatus 'Canyon Prince'</i>	CANYON PRINCE RYE GRASS	1 GAL.	56	LOW	'C', LP-3
	<i>Muhlenbergia capillaris</i>	REGAL MIST	1 GAL.	2 133	LOW	'C', LP-3
	<i>Penstemon spectabilis</i>	SHOWY PENSTEMON	1 GAL.	35	LOW	'C', LP-3
	<i>Salvia apiana</i>	WHITE SAGE	1 GAL.	23	LOW	'C', LP-3
	<i>Sphaeralcea ambigua 'Louis Hamilton'</i>	'LOUIS HAMILTON' DESERT GLOBE MALLOW	1 GAL.	30	LOW	'C', LP-3



3" WOOD MULCH
APPROX. 5,966 S.F.

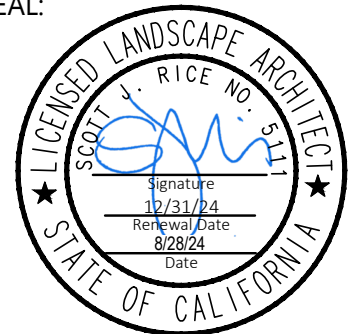


RESEED TURF PER COUNTY
APPROX. 69,310 S.F.
ACCOUNT FOR SEED TYPE, METHOD
OF INSTALLATION, AND APPLICATION
RATE

NOTES:

- ALL TREES WITHIN 6' OF HARDSCAPE TO RECEIVE ROOTBARRIER SEE DETAIL 'B', SHEET LP-3
- ALL PLANTER AREAS TO RECEIVE A 3" MINIMUM DEPTH LAYER OF SHREDDED WOOD BARK MULCH, FOREST FLOOR BY AGUINAGA OR EQUAL
- PLANT WATER USE VALUES ARE PER WUCOLS IV PLANT LIST

SEAL:



LANDSCAPE SHEET LP-1

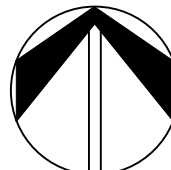
HIDDEN VALLEY
NATURE CENTER

PREPARED FOR:

RIVERSIDE COUNTY
PARKS

DESCRIPTION:

ADDENDUM NO.6
PCC REMOVAL



SCALE:NTS



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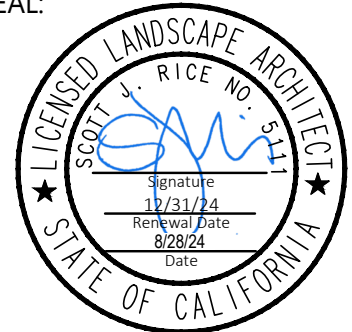
	<i>Muhlenbergia capillaris</i>	REGAL MIST	1 GAL.	133	LOW	'C', LP-3
	<i>Penstemon spectabilis</i>	SHOWY PENSTEMON	1 GAL.	35	LOW	'C', LP-3
	<i>Salvia apiana</i>	WHITE SAGE	1 GAL.	23	LOW	'C', LP-3
	<i>Sphaeralcea ambigua</i> 'Louis Hamilton'	'LOUIS HAMILTON' DESERT GLOBE MALLOW	1 GAL.	30	LOW	'C', LP-3

3" WOOD MULCH
APPROX. 5,966 S.F.

RESEED TURF PER COUNTY
APPROX. 69,310 S.F.
ACCOUNT FOR SEED TYPE, METHOD
OF INSTALLATION, AND APPLICATION
RATE

- NOTES:**
- ALL TREES WITHIN 6' OF HARDSCAPE TO RECEIVE ROOTBARRIER SEE DETAIL 'B', SHEET LP-3
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 - PLANT WATER USE VALUES ARE PER WUCOLS IV PLANT LIST

SEAL:

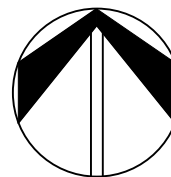


LANDSCAPE SHEET LP-2

HIDDEN VALLEY
NATURE CENTER

PREPARED FOR:
**RIVERSIDE COUNTY
PARKS**

DESCRIPTION:
**ADDENDUM NO.6
PCC REMOVAL**



SCALE:NTS



7111 INDIANA AVENUE
Riverside, CA 92504
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Riverside County Regional Park and Open-Space District

Kyla Brown, Parks Director / General Manager

ADDENDUM #7

Bid No. PKARC-278 HIDDEN VALLEY NATURE CENTER MODERNIZATION

September 5, 2024

Addendum documentation:	2 Pages, 1 item
8 1/2" x 11" Addendum Drawings	1 Pages (Attached)
24" x 36" Addendum Drawings	0 Sheets
Specification Sections	0 Specs

The following is issued to supplement or revise the Contract Documents. The revisions to the documents are described below. Unless specifically changed by this addendum, the remainder of the drawings, documents, and specifications shall remain in effect as originally issued. It is the obligation of the contractor to make subcontractors aware of this addendum.

General Note: Any dates and times originally published by the Riverside County Board of Supervisors are subject to change. Changes are reflected in the bid documents and any addenda that may be issued thereto.

GENERAL & BID DOCUMENTS:

1. **Revised Sheet T-1 Title Sheet** to replace in its entirety the sheet index.

See attached 8.5 x 11 pages for updated sheet index incorporated herewith by reference.

SPECIFICATIONS:

None

PLANS – FULL SIZE:

None

END OF ADDENDUM #7

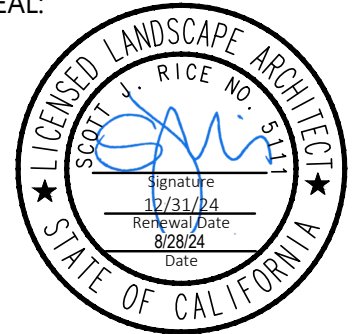


SHEET INDEX:

- T-1 TITLE SHEET
- LA-1 ACCESSIBILITY PLAN
- LD-1 DEMOLITION PLAN
- LD-2 DEMOLITION PLAN
- TI-1 CIVIL SITE GRADING PLAN INDEX
- GP-1 CIVIL SITE GRADING PLAN
- GP-2 CIVIL SITE GRADING PLAN
- GP-3 CIVIL SITE GRADING PLAN
- SS-1 SEPTIC SYSTEM PLAN
- SS-2 SEPTIC SYSTEM PLAN
- SP-1 CIVIL SITE GRADING PLAN STANDARDS
- SP-2 CIVIL SITE GRADING PLAN STANDARDS
- SP-3 CIVIL SITE GRADING PLAN STANDARDS
- LC-1 CONSTRUCTION PLAN
- LC-2 CONSTRUCTION PLAN
- LC-3 CONSTRUCTION DETAILS
- LC-4 CONSTRUCTION DETAILS
- LC-5 CONSTRUCTION DETAILS
- LC-6 CONSTRUCTION DETAILS
- LC-7 CONSTRUCTION DETAILS
- LC-8 CONSTRUCTION DETAILS
- LC-9 CONSTRUCTION DETAILS
- LI-1 IRRIGATION PLAN
- LI-2 IRRIGATION PLAN
- LI-3 IRRIGATION DETAILS
- LI-4 IRRIGATION DETAILS
- LI-5 IRRIGATION DETAILS
- LI-6 IRRIGATION DETAILS
- LP-1 PLANTING PLAN
- LP-2 PLANTING PLAN
- LP-3 PLANTING DETAILS
- E-1 ELECTRICAL LEGENDS & NOTES
- E-2 LUMINAIR SCHEDULE
- E-3 SINGLE LINE DIAGRAM
- E-4 SITE ELECTRICAL PLAN
- E-5 SITE PHOTOMETRIC PLAN
- E-6 ELECTRICAL DETAILS
- E-7 COMPLIAN FORMS
- S-1 STRUCTURAL NOTE AND DETAILS
- S-001 STRUCTURAL NOTES
- S-002 INSPECTION TABLES & NOTES
- S-500 STANDARD CONCRETE DETAILS
- S-501 STANDARD CMU DETAILS
- S-502 STRUCTURAL DETAILS
- 1S-001 STRUCTURAL NOTES
- 1S-002 STRUCTURAL NOTES
- 1S-003 STRUCTURAL NOTES
- 1S-110 FOUNDATION PLAN
- 1S-130 ROOF FRAMING PLAN
- 1S-200 STRUCTURAL ELEVATIONS
- 1S-500 FOUNDATION DETAILS
- 1S-530 ROOF FRAMING DETAILS
- 1S-531 DIAPHRAGM DETAILS

T-1 TITLE SHEET

SEAL:



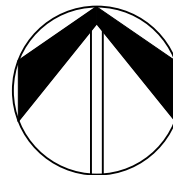
HIDDEN VALLEY
NATURE CENTER

PREPARED FOR:

RIVERSIDE COUNTY
PARKS

DESCRIPTION:

ADDENDUM NO.7



SCALE:NTS



7111 INDIANA AVENUE
Riverside, CA 92504
(951) 369-0700
Fax (951) 369-4039
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BID FORM - REQUIRED AT TIME OF BID

To: Governing Board of Riverside County Regional Park and Open-Space District ("District")

From: Wakeco, Inc.
(Proper Name of Bidder)

No.: 1000865957 L# 1086958 Exp: 02/28/2026
Bidder's DIR Registration No. Contractor's CA License No.

The undersigned declares that the Contract Documents including, without limitation, the Invitation to Bid, the Instructions to Bidders, and the Special Conditions have been read, and agrees and proposes to furnish all necessary labor, materials, and equipment to perform and furnish all work in accordance with the terms and conditions of the Contract Documents, including, without limitation, the Drawings and Specifications for the following project:

Hidden Valley Nature Center Modernization ("Project" or "Contract")

and will accept in full payment for that Work the following total lump sum amount, all taxes included:

BASE BID (In Dollars\$ - PRINT CLEARLY - 1 DIGIT IN EACH BOX):

	2	,		9	3	0	,		0	0	0	.		0	0		
													Dollars				Cents

NOTE: IF THERE ARE ALTERNATES OR ALLOWANCES IDENTIFIED IN THIS BID FORM, DO NOT INCLUDE ANY ALTERNATES OR ALLOWANCE(S) AMOUNTS IN THE BASE BID AMOUNT.

Additive/Deductive Alternates:

Additive Alternate #1: Add wooden shade shelter near the overlook – basis of design Forever Redwood.

		,		3	6	5	,		4	4	8	.		4	3		
													Dollars				Cents

Additive Alternate #2: Provide Builders Risk Insurance for this Project.

This alternate shall not be included in the basis of determining the low bidder. If not awarded at time of contracting, the District reserves the right to add this insurance post-award via a change vehicle. This price shall be held for no longer than 15 days post-award. If past that time, repricing will be considered.

		,				,				.		
			6				0	0	0			
Dollars									Cents			

Unit Price(s)

The Bidder's Base Bid includes the following unit price(s), which the Bidder must provide and the District may, at its discretion, utilize in valuing additive and/or deductive change orders:

None

Allowance(s)

The Bidder's Base Bid shall **NOT** include the following potential Allowance(s). The District will add some or all of the following Allowance(s) amount(s) to the successful bidder's Contract at the District's discretion.

Potential allowances are as follows:

Allowance #1: This allowance shall be used for, but not limited to, the following: Unforeseen or unforeseeable conditions, owner-requested changes, environmental hazards, unforeseen delays, or other similar project costs.

Allowance value: \$500,000

Allowance calendar days: 5

Bid Acknowledgements

1. **Contract Review.** The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this bid, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its bid, if accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.
2. **Requests for Clarification.** The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.
3. **Contract Time.** The undersigned agrees to commence work under this Contract on the date established in the Contract Documents and to complete all work within the time specified in the Contract Documents.
4. **Contractual Provisions.** The undersigned hereby acknowledges and agrees to be bound by following provisions and all provisions in the Contract Documents:
 - The liquidated damages clause of the General Conditions, the Special Conditions and Agreement.
 - The “Changes in the Work” provisions in the General Conditions that limit the permitted charges and mark-ups on change orders and on the amount of home office overhead that the successful bidder can receive from the District.
 - The “Claims” provisions in the General Conditions that delineate the required process to submit and process disputes and claims.
 - The “COVID-19” provisions in the Contract Documents related to the Contractor’s staffing requirements and its compliance with all applicable and existing federal, state, and/or local statutes, orders, rules, regulations, ordinances, and/or directives relating to construction site safety in connection with COVID-19, and/or any similar virus or derivative strain.
5. **Bid Open Period.** It is understood that the District reserves the right to reject this bid and that the bid shall remain open to acceptance and is irrevocable as per the Bid Hold period identified in the Special Conditions.
6. **Attachments.** The following documents are attached hereto:
 - The Bid Bond on the District's form or other security
 - The Designated Subcontractors List
 - The Noncollusion Declaration
 - Iran Contracting Act Certification
7. **Bidder’s License.**
 - Bidder acknowledges that the license required for performance of the Work is as stated in the Invitation to Bid.
 - Bidder certifies that it is, at the time of bidding, and shall be throughout the period of the contract, licensed by the State of California to do the type of work required under

the terms of the Contract Documents. Bidder further certifies that it is regularly engaged in the general class and type of work called for in the Contract Documents.

- 8. **Labor Harmony.** The undersigned hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.
- 9. **DIR Registration.** Bidder shall ensure that it and its Subcontractors comply with the registration and compliance monitoring provisions of Labor Code section 1771.4, including furnishing its CPRs to the Labor Commissioner, and are registered pursuant to Labor Code section 1725.5.
- 10. **Prequalification.** If the Special Conditions requires prequalification of prime Bidder, the Bidder confirms that it has been prequalified by the District at a rate at or above that stated in the Invitation to Bid. In addition, If the Special Conditions requires Subcontractor prequalification, then the Bidder confirms that, if the Project has electrical, mechanical, or plumbing components that will be performed by first-tier subcontractor with the following license classifications, then those subcontractors have also been prequalified by the District: C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, and/or C-46.
- 11. **SWPPP QSP.** Bidder specifically acknowledges and understands that if it is awarded the Contract and a Stormwater Pollution Prevention Plan is included in the scope of the Project, it shall perform the Work of the Project related to being the District's Qualified SWPPP (Storm Water Pollution Prevention Plan) Practitioner ("QSP") and that the Bidder is certified to be the District's QSP, as required by the current California State Water Board's Construction General Permit.
- 12. **General Acknowledgement.** The Bidder represents that it is competent, knowledgeable, and has special skills with respect to the nature, extent, and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work that may create, during the Work, unusual or peculiar unsafe conditions hazardous to persons and property. Bidder expressly acknowledges that it is aware of such peculiar risks and that it has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Work with respect to such hazards.
- 13. **False Claims Act.** Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms "claim" and "knowingly" are defined in the California False Claims Act, Cal. Gov. Code, §12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.
- 14. **Basis of Award:** The Bidder acknowledges its understanding that the District shall award the Contract, if it awards it at all, to the lowest responsive responsible bidder based on:

District to Select Only One (1):	Basis of Award
N/A	The base bid amount only
X	The base bid amount plus the following alternates: 1

District to Select Only One (1):	Basis of Award
N/A	Up to a total Project fund amount as stated during the bid opening prior to opening bids, including the additive alternates or deductive alternates needed, in the stated order, to be equal to or less than that amount: <hr/>
N/A	Blind Bid: Based on a process that, when alternates are being considered, conceals the identity of bidders from the District until the bids and any alternates have been ranked and the low bid amount and scope identified.


Bid Form continues on next page.

15. Addenda Acknowledgement. By signature hereto, Bidder hereby acknowledges receipt of all addenda issued. Addendums 1-7

Furthermore, Bidder hereby certifies to the District that all representations, certifications, and statements made by Bidder, as set forth in this bid form, are true and correct and are made under penalty of perjury.

09/10/2024

Date (Month, Day, Year)



Signature

Wakeco, Inc.

Proper Name of Bidder/Firm

Gavin Wakefield, CFO

Print Name / Title

42020 Winchester Rd.

Street Address

Corporation

Type of Organization

Temecula, CA 92590

City, State Zip

84-4562317

Taxpayer's Identification Number

951-200-5758

Phone
(For communication about this bid)

estimating@wakecoin.com

Email
(For communication about this bid)

951-200-5758

General/Main Phone

www.wakecoinc.com

Web Page

If Bidder is a corporation, provide the following:

Name of Corporation: Wakeco, Inc.

END OF BID FORM

BID BOND (SECURITY) - REQUIRED AT TIME OF BID

(Note: If Bidder is providing a bid bond as its bid security, Bidder must use this form, NOT a surety company form.)

The undersigned, Wakeco, Inc. as Principal ("Principal");

and Developers Surety and Indemnity Company as Surety ("Surety"; a corporation organized and existing under and by virtue of the laws of the State of California and authorized to do business as a surety in the State of California) are held and firmly bound unto the Riverside County Regional Park and Open-Space

District ("District") as Obligee, in the sum of \$ 10% of bid amount **Dollars**, lawful money of the United States, for the payment of which to the District will and truly to be made pursuant to the provisions herein. Principal and Surety each of us, bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has submitted a bid to the District for all Work specifically described in the accompanying bid and if the District awards the contract to the Principal and, within the time and manner required under the Contract Documents, after the prescribed forms are presented to Principal for signature, the Principal enters into a written contract, in the prescribed form in accordance with the bid, and files two bonds (one guaranteeing faithful performance and the other guaranteeing payment for labor and materials as required by law), and meets all other conditions to the contract between the Principal and the Obligee becoming effective, or if the Principal shall fully reimburse and save harmless the Obligee from any damage sustained by the Obligee through failure of the Principal to enter into the written contract and to file the required performance and labor and material bonds, and to meet all other conditions to the Contract between the Principal and the Obligee becoming effective, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect and the Surety shall immediately issue full payment of the sum stated above to the Obligee upon notification from the Obligee that the Principal has not taken all steps to nullify or void this obligation.

Surety agrees that no change, extension of time, alteration or addition to the terms of the call for bids, or to the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the call for bids, or to the work, or to the specifications.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in that suit, including a reasonable attorneys' fee to be fixed by the Court.

If the District awards the bid, the security of unsuccessful bidder(s) shall be returned within sixty (60) days from the time the award is made. Unless otherwise required by law, no bidder may withdraw its bid for ninety (90) days after the date of the bid opening.

IN WITNESS WHEREOF, this instrument has been duly executed by the Principal and Surety above named, on the


Dated: September 10th, 2024
Month Day Year

Hidden Valley Nature Center Modernization

PKARC-278

Wakeco, Inc.

Principal

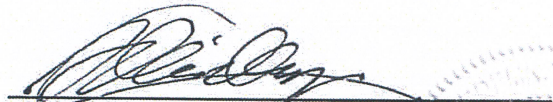

Signature of Person with Authority

(Affix Corporate Seal)

By (Print Name/Title): Gavin Wakefield, CEO

Developers Surety and Indemnity Company

Surety


Signature of Person with Authority

(Affix Corporate Seal)

By (Print Name/Title): Allison Ocampo, Attorney-In-Fact

KPS Insurance Services, Inc. / Michael R. Strahan
Name of California Agent of Surety

555 West Beech St. Ste. 503, San Diego, CA 92101
Address of California Agent of Surety

CA Agent Surety Phone: (858) 538-8822

Bidder must attach Power of Attorney and Certificate of Authority for Surety and a Notarial Acknowledgment for all Surety's signatures. The California Department of Insurance must authorize the Surety to be an admitted Surety Insurer.

END OF BID BOND

STATE OF CALIFORNIA
DEPARTMENT OF INSURANCE
SAN FRANCISCO

Amended
Certificate of Authority

THIS IS TO CERTIFY *that, pursuant to the Insurance Code of the State of California,*

Developers Surety and Indemnity Company

of California, organized under the laws of California, subject to its Articles of Incorporation or other fundamental organizational documents, is hereby authorized to transact within this State, subject to all provisions of this Certificate, the following classes of insurance:

Fire, Marine, Surety, Disability, Plate Glass, Liability, Workers' Compensation,

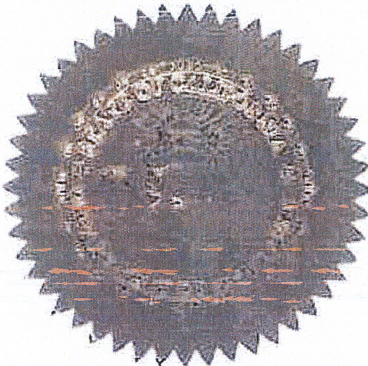
Common Carrier Liability, Boiler and Machinery, Burglary, Credit,

Sprinkler, Team and Vehicle, Automobile, Aircraft, Legal, and Miscellaneous

as such classes are now or may hereafter be defined in the Insurance Laws of the State of California.

THIS CERTIFICATE is expressly conditioned upon the holder hereof now and hereafter being in full compliance with all, and not in violation of any, of the applicable laws and lawful requirements made under authority of the laws of the State of California as long as such laws or requirements are in effect and applicable, and as such laws and requirements now are, or may hereafter be changed or amended.

IN WITNESS WHEREOF, *effective as of the 1st day of November, 2017, I have set my hand and caused my official seal to be affixed this 1st day of November, 2017.*



Dave Jones
Insurance Commissioner

By

Valerie Sarfaty
for Joel Laucher
Chief Deputy

NOTICE:

Qualification with the Secretary of State must be accomplished as required by the California Corporations Code promptly after issuance of this Certificate of Authority. Failure to do so will be a violation of Insurance Code section 701 and will be grounds for revoking this Certificate of Authority pursuant to the covenants made in the application therefor and the conditions contained herein.

POWER OF ATTORNEY FOR
COREPOINTE INSURANCE COMPANY
DEVELOPERS SURETY AND INDEMNITY COMPANY
59 Maiden Lane, 43rd Floor, New York, NY 10038
(212) 220-7120

KNOW ALL BY THESE PRESENTS that, except as expressly limited herein, COREPOINTE INSURANCE COMPANY and DEVELOPERS SURETY AND INDEMNITY COMPANY, do hereby make, constitute and appoint:

Michael R. Strahan, E.B. Strahan and Allison Ocampo, of San Diego, CA

as its true and lawful Attorney-in-Fact, to make, execute, deliver and acknowledge, for and on behalf of said companies, as sureties, bonds, undertakings and contracts of suretyship giving and granting unto said Attorney-in-Fact full power and authority to do and to perform every act necessary, requisite or proper to be done in connection therewith as each of said company could do, but reserving to each of said company full power of substitution and revocation, and all of the acts of said Attorney-in-Fact, pursuant to these presents, are hereby ratified and confirmed. This Power of Attorney is effective February 2, 2023 and shall expire on December 31, 2025.

This Power of Attorney is granted and is signed under and by authority of the following resolutions adopted by the Board of Directors of COREPOINTE INSURANCE COMPANY and DEVELOPERS SURETY AND INDEMNITY COMPANY (collectively, "Company") on February 10, 2023.

RESOLVED, that Sam Zaza, President, Surety Underwriting, James Bell, Vice President, Surety Underwriting, and Craig Dawson, Executive Underwriter, Surety, each an employee of AmTrust North America, Inc., an affiliate of the Company (the "Authorized Signors"), are hereby authorized to execute a Power of Attorney, qualifying attorney(s)-in-fact named in the Power of Attorney to execute, on behalf of the Company, bonds, undertakings and contracts of suretyship, or other suretyship obligations; and that the Secretary or any Assistant Secretary of the Company be, and each of them hereby is, authorized to attest the execution of any such Power of Attorney.

RESOLVED, that the signature of any one of the Authorized Signors and the Secretary or any Assistant Secretary of the Company, and the seal of the Company must be affixed to any such Power of Attorney, and any such signature or seal may be affixed by facsimile, and such Power of Attorney shall be valid and binding upon the Company when so affixed and in the future with respect to any bond, undertaking or contract of suretyship to which it is attached.

IN WITNESS WHEREOF, COREPOINTE INSURANCE COMPANY and DEVELOPERS SURETY AND INDEMNITY COMPANY have caused these presents to be signed by the Authorized Signor and attested by their Secretary or Assistant Secretary this March 27, 2023.

By: [Signature]
Printed Name: Sam Zaza
Title: President, Surety Underwriting



ACKNOWLEDGEMENT:

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

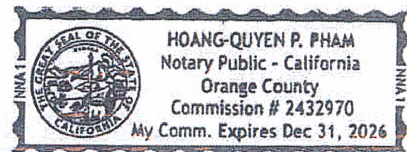
STATE OF California COUNTY OF Orange

On this 27 day of March, 2023, before me, Hoang-Quyen Phu Pham, personally appeared Sam Zaza who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within the instrument and acknowledged to me that they executed the same in their authorized capacity, and that by the signature on the instrument the entities upon behalf which the person acted, executed this instrument.

I certify, under penalty of perjury, under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]



CORPORATE CERTIFICATION

The undersigned, the Secretary or Assistant Secretary of COREPOINTE INSURANCE COMPANY and DEVELOPERS SURETY AND INDEMNITY COMPANY, does hereby certify that the provisions of the resolutions of the respective Boards of Directors of said corporations set forth in this Power of Attorney are in force as of the date of this Certification.

This Certification is executed in the City of Cleveland, Ohio, this March 19, 2023.

DocuSigned by:
By: Barry W. Moses Barry W. Moses, Assistant Secretary

POA No. N/A

DocuSignEnvelopeID:3352BFD6-5E9D-4796-837E-C1E455E6530F

ACKNOWLEDGMENT

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

State of California
County of San Diego)

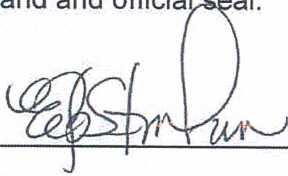
On 9/10/2024 before me, E.B. Strahan, Notary Public

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

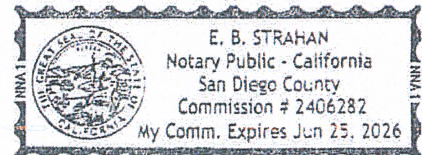
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____



(Seal)



ACKNOWLEDGMENT

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

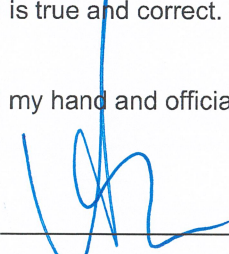
State of California
County of Riverside)

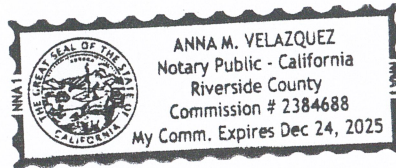
On 09/11/2024 before me, Anna M. Velazquez, Notary Public
(insert name and title of the officer)

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

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

WITNESS my hand and official seal.

Signature  (Seal)



DESIGNATED SUBCONTRACTORS LIST - REQUIRED AT TIME OF BID

Hidden Valley Nature Center Modernization (“Project” or “Contract”)

Listed. Bidder must list hereinafter the name and location of each subcontractor who will be employed, and the scope of Work that each will perform if the Contract is awarded to the Bidder. Bidder acknowledges and agrees that under Public Contract Code section 4100, et seq., it must clearly identify the name and location of each subcontractor who will perform work or labor or render service to the Bidder in or about the construction of the Work in an amount in excess of one-half of one percent (1/2 of 1%) of Bidder’s total Bid.

CSLB Number. Bidder must provide the Contactor State License Board number (“**CSLB No.**”) for all listed subcontractors.

DIR Number. Bidder must provide the Department of Industrial Relations registration number (“**DIR No.**”) for all listed subcontractors.

Same Scope. If more than one subcontractor is named for the same scope of Work, state with specificity the particular scope or portion that each subcontractor will perform.

No Vendors or Suppliers. Bidder need not list entities that are only vendors or suppliers of materials.

Not Listed. As to any Work that Bidder fails to list that is in excess of one-half of one percent (1/2 of 1%) of Bidder’s total Bid, Bidder agrees that it is qualified to perform that scope of Work and will perform that scope of Work, or be subjected to penalty under applicable law.

Alternate Work. If alternate bids are called for and Bidder intends to use Subcontractors different from or in addition to those Subcontractors listed for work under the base Bid, Bidder must list Subcontractors that will perform Work in an amount in excess of one half of one percent (1/2 of 1%) of Bidder’s total Bid, including alternates.

Prequalification. If the Project requires prequalification of subcontractors performing electrical, mechanical, or plumbing components under the following license classification(s) – See Special Conditions, then each of those subcontractors must also have been prequalified by the District: C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, and/or C-46.

DVBEs. Bidder must indicate which, if any, of its subcontractors are disabled veteran business enterprises (DVBE) and the estimated percentage of the Work those subcontractor(s) will perform.

Bidders may correct inadvertent error(s) in listing subcontractors’ CSLB Nos. or DIR Nos. according to the rules of the Department of Industrial Relations and no later than SEVEN (7) calendar days after the bid date.

Additional Sheets. If further space is required for the list of proposed subcontractors, the Subcontractor Listing Chart page may be copied as many times as necessary and made a part of this document and submitted with this form.

I certify and declare under penalty of perjury under the laws of the State of California that all the information listed on the following page(s) is complete, true, and correct.

09/10/2024

Date (Month, Day, Year)

Signed

Wakeco, Inc.

Proper Name of Bidder/Firm

Gavin Wakefield, CFO

Print Name / Title

Designated Subcontractor List Chart - (Copy as needed to provide a complete list)Proper Name of Bidder: Wakeco, Inc.

Portion of Work	DV BE X	Subcontractor Name (%DVBE if Appl.)	City/State	CA License #	DIR Reg #
Wood Fencing & Wood Railing		EVERFENCE CORPORATION	SANTA FE SPRINGS, CA	1063022	1000708605
Pavers		ELGUEZ INC DBA PRECISE PAVERS	CAMPO, CA	984744	1000438302
Plumbing		INTEGRITY PLUMBING	MORENO VALLEY, CA	419068	1000054912
Restroom Building & Install		GOLDEN EMPIRE CONCRETE PRODUCTS INC dba STRUCTURE CAST	BAKERSFIELD, CA	774870	1000000308
Landscape & Irrigation		ZUNIGASCAPES INC	MORENO VALLEY, CA	994916	2000001042
Concrete, Rebar, and Grading		KGG Concrete Construction	Temecula, CA	1107284	1001125892
Signage		BRAVO SIGN & DESIGN INC	ANAHEIM, CA	641391	1000006083

Designated Subcontractor List Chart - (Copy as needed to provide a complete list)Proper Name of Bidder: Wakeco, Inc.

Portion of Work	DV BE X	Subcontractor Name (%DVBE if Appl.)	City/State	CA License #	DIR Reg #
Shade Structure & Install Timber Truss Shelter & Install		WESTERN STATE BUILDERS INC	ESCONDIDO, CA	1069677	1000706410
Masonry		NEWHOUSE CONSTRUCTION SERVICES INC dba MASONRY SOLUTIONS	RIVERSIDE, CA	648103	1000548424
Survey		On Point Land Surveying, Inc.	Redlands, CA	LS8133	10000003100
Electrical		F E C ELECTRIC INC	Redlands, CA	743507	1000004480
Site Utilities		KERNS INC A CALIFORNIA CORPORATION	HESPERIA, CA	986739	1000006137
SWPPP		J C TUCKMAR INC dba VOLK ENVIRONMENTAL SOLUTIONS	TEMECULA, CA	919494	1000008953

Designated Subcontractor List Chart - (Copy as needed to provide a complete list)

Proper Name of Bidder: Wakeco, Inc.

Portion of Work	DV BE X	Subcontractor Name (%DVBE if Appl.)	City/State	CA License #	DIR Reg #

NONCOLLUSION DECLARATION - REQUIRED AT TIME OF BID

Public Contract Code § 7106

The undersigned declares: I am the CFO
Print your Title

of Wakeco, Inc.
Print Firm Name, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. 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.

All statements contained in the bid are true. 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, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on the following date:

09/10/2024
Date (Month, Day, Year)


Signed

Wakeco, Inc.
Proper Name of Bidder/Firm

Gavin Wakefield, CFO
Print Name / Title

Temecula, CA
City/State

END OF NONCOLLUSION DECLARATON

IRAN CONTRACTING ACT CERTIFICATION - REQUIRED AT TIME OF BID

Public Contract Code § 2204

Hidden Valley Nature Center Modernization (“Project” or “Contract”)

Pursuant to Public Contract Code (PCC) section 2204, an Iran Contracting Act certification is required for solicitations of goods or services of one million dollars (\$1,000,000) or more.

Bidder **MUST CHECK ONLY ONE** of the following three options.

1. Bidder’s Total Base Bid is less than one million dollars (\$1,000,000).

OR

2. Bidder’s Total Base Bid is one million dollars (\$1,000,000) or more, but Bidder is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to Public Contract Code § 2203(b), and Bidder is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

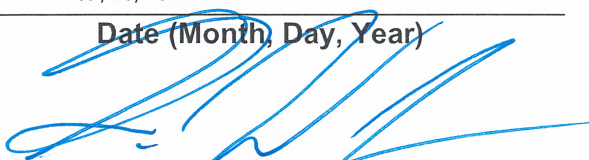
OR

3. Bidder’s Total Base Bid is one million dollars (\$1,000,000) or more, but the District has given prior written permission to Bidder to submit a proposal pursuant to PCC 2203(c) or (d). **A copy of the written permission from the District is attached to this certification and provided with this Bid.**

I certify that I am duly authorized to legally bind the Bidder to this certification, that the contents of this certification are true, and that this certification is made under the laws of the State of California.

09/10/2024

Date (Month, Day, Year)



Signed

Wakeco, Inc.

Proper Name of Bidder/Firm

Gavin Wakefield, CFO

Print Name / Title

END OF CERTIFICATION

Click or tap here to enter text.

SCHEDULE A

REGIONAL PARK AND OPEN-SPACE DISTRICT: Approval of Neighborhood Revitalization Projects; District 2. [\$1,076,147
Total Cost - ARP Act Coronavirus Act Fund 21735 100%]

FY24-25

Increase Appropriations:

21735	931105	542120	Improvements-Infrastructure	\$	1,076,147
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Increase Estimated Revenue:

21735	931105	763520	Fed-American Rescue Plan Act	\$	1,076,147
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