SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD OF SUPERVISORS COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

ITEM: 14.1
(ID # 28794)
MEETING DATE:
Tuesday, October 07, 2025

FROM : FLOOD CONTROL DISTRICT

SUBJECT: FLOOD CONTROL DISTRICT: Approve Addendum No. 1 to Plans and Specifications and Contract Documents; Accept Low Bid and Award the Contract for the Perris Valley Channel Lateral B, Stage 4, Project No. 4-0-00009-04, Nothing Further Required Under CEQA, District 1. [$20,503,846 Total Cost - District Funds 100%]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve Addendum No. 1 to the Plans and Specifications and Contract Documents issued prior to the July 24, 2025 bid opening;

2. Accept the low bid submitted by the firm of KEC Engineering for $19,906,647 for the construction of the above-referenced project;

3. Award the contract to KEC Engineering, and authorize the Chair of the Riverside County Flood Control and Water Conservation District's ("District") Board of Supervisors ("Board") to execute the Construction Agreement on behalf of the District; and

4. Direct the Clerk of the Board to return two (2) copies (packets) of the executed Perris Valley Channel Lateral B, Stage 4 ("Project") contract documents to the District (the Clerk of the Board is to keep the book marked 'Board of Supervisor's' for their records).

ACTION:Policy

Jason Uhley, GENERAL MGR-CHF FLD CNTRL ENG 9/23/2025

MINUTES OF THE BOARD OF SUPERVISORS

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

Ayes:	Medina, Spiegel, Washington, Perez, and Gutierrez
Nays:	None
Absent:	None
Date:	October 7, 2025
xc:	Flood

Kimberly A. Rector
Clerk of the Board
By: _____ Deputy

SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost
COST	$9,886,968	$10,616,878	$20,503,846	$0
NET COUNTY COST	$0	$0	$0	$0

SOURCE OF FUNDS: 25140 947460 548200 Zone 4 Infrastructure
25140 947460 523220 Zone 4 License and Permits

Budget Adjustment: No

For Fiscal Year: 25/26-26/27

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

Summary

On June 10, 2025 [Agenda Item 14.8, MT 27791], the District's Board authorized the Clerk of the Board to advertise for construction contract bids for the Project.

The District opened bids for the Project on July 24, 2025. The lowest responsible bid was received from KEC Engineering ("Contractor") for the sum of $19,906,647. Nineteen contractors submitted a bid in response to this call for bids. The bid documents have been reviewed by County Counsel and District staff. The bid was found to be responsive.

On August 11, 2025, a Notice of Intent to Award the contract to the Contractor was posted under Public Notices at www.rcflood.org. Pursuant to Article 3, Section 3.3 of the Instructions to Bidders, bidders are provided five (5) days to submit any protest of the intent to award. No protests were received by the deadline.

The Contractor has executed the construction contract and provided the bonds and insurance documents which meet the requirements of the contract.

The fiscal data listed includes this bid amount, plus the required Western Riverside County Multiple Species Habitat Conservation Plan ("MSHCP") mitigation payment (see Additional Fiscal Information section below).

The District, in partnership with the March Joint Powers Authority ("MJPA") and March Air Reserve Base ("MARB"), is proposing to construct, operate and maintain the Project. The Project consists of an approximately 6,000 lineal foot underground reinforced concrete box storm drain, partially located within the limits of the city of Perris, lands owned by MJPA and MARB, and private properties in southwest Riverside County. The objectives of the Project are to provide flood protection to MARB and the adjacent area by constructing the regional storm drain needed to convey 100-year storm runoff from the Perris Valley Channel ("PVC") Lateral B, Stage 5 facility to the existing PVC Lateral B, Stage 2 facility at Heacock Street, and provide adequate outlet to proposed developments west of the Project within the city of Perris. The Project's general alignment begins at the easterly terminus of Van Buren Boulevard, south of the Target Distribution Center, and continues south and east adjacent to the MARB west perimeter security fence before tying into the PVC Lateral B, Stage 2 facility at Heacock Street.

County Counsel has reviewed the construction contract with exhibits and approved as to form.

California Environmental Quality Act ("CEQA") Compliance

On January 9, 2024 [Agenda Item 11.3, MT 23820], the District's Board of Supervisors determined that impacts associated with construction and maintenance of the Project would be less than significant with mitigation and adopted an Initial Study/Mitigated Negative Declaration. The District's Board also adopted a Mitigation Monitoring and Reporting Program to be implemented as part of the Project, directed the Clerk of the Board to file the Notice of Determination ("NOD") with the County Clerk and the Office of Planning and Research within five days of Project approval, and authorized the District to proceed with the Project. No legal challenges were received during the 30-day NOD statute of limitations period; therefore, nothing further is required under CEQA.

Prev. Agn. Ref.: MT 27791 14.8 of 06/10/25 Advertise
MT 18045 11.1 of 03/08/22 Cooperative Agreement
MT 23820 11.3 of 01/09/24 Resolution/CEQA Exempt

Impact on Residents and Businesses

This Project will provide 100-year storm runoff flood protection to MARB and adjacent areas through constructing a regional storm drain system. This Project is funded by ad valorem property tax revenue and entails no new fees, taxes or bonded indebtedness.

Additional Fiscal Information

Pursuant to the Implementing Agreement for the Western Riverside County MSHCP executed on June 22, 2004, the Financial Data listed is comprised of the bid amount of $19,906,647 for the Contractor, plus up to $597,199 for MSHCP mitigation, for a total of $20,503,846. The MSHCP Implementing Agreement requires the District to make a payment to the Western Riverside County Regional Conservation Authority for up to 3% of the total capital costs as required mitigation for the construction of flood control facilities. The actual mitigation payment that will be made by the District may be reduced based on acquisition of replacement habitat for the benefit of Covered Species, as defined in the Implementing Agreement and the MSHCP.

Contract History and Price Reasonableness

Pursuant to Public Contract Code 21091, invitation of sealed bids was solicited by advertising in print and digital media. The Contractor's bid was reasonable and is approximately 3% below the project engineer's estimate.

ATTACHMENTS:

1. Bid Summary/Abstract
2. Project Location Map
3. Addendum No. 1
4. Contract Documents (Sheets XXV through XXXVI) and Certificate of Liability Insurance - 3 copies

SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

P8/263317
NG:rlp

Aaron Gettis
Aaron Gettis, Chief of Deputy County Counsel 9/24/2025

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BOARD OF SUPERVISORS

SPECIFICATIONS and CONTRACT DOCUMENTS

for the CONSTRUCTION of

PERRIS VALLEY CHANNEL
LATERAL B STAGE 4
4-0-00010-04

RIVERSIDE COUNTY, CALIFORNIA

RIVERSIDE COUNTY FLOOD CONTROL WATER CONSERVATION DISTRICT

FORM APPROVED COUNTY COUNSEL
BY KRISTINE BELL-VALDEZ DATE 5/23/25

JASON E. UHLEY
General Manager-Chief Engineer

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RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

July 9, 2025

ADDENDUM NO. 1
TO
PERRIS VALLEY CHANNEL MDP LATERAL B, STAGE 4

RIVERSIDE COUNTY, CALIFORNIA

Bid Opening Date: Thursday, July 24, 2025 at 2:00 p.m.

PROPOSAL

REPLACE PROPOSAL in its entirety (Pages XV, XVa, XVb and, XVc) to accommodate:

- Change in total cost of Item Extra Directed Work.
- The addition of a signature line on the bottom of Page XVc for acknowledgment of this Addendum.

EXHIBIT

REPLACE EXHIBIT A in its entirety (Pages XXVI, XXVIa and XXVIb) to accommodate:

- Change in total cost of Item Extra Directed Work.
- Add Item Nos. 43 through 48 to match Proposal.

DRAWINGS

REPLACE Sheets 1 through 42 of Drawing No. 4-1170 in its entirety.

RESPONSE TO QUESTIONS

Included with this Addendum is Response to Questions.

AS-BUILT DRAWING NO. 4-1158

Included with this Addendum are as-built plans for Perris Valley Channel MDP Lateral B, Stage 5, Drawing No. 4-1158

MINUTES TO PRE-BID MEETING

Included with this Addendum are Minutes to Pre-Bid Meeting.

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NOTE: Bidders are required to acknowledge receipt of all addenda at the bottom of **Page XVc** of the PROPOSAL. Failure to acknowledge all addenda on the bid form may cause the bid to be considered not responsive to the invitation, which would require rejection of the bid.

for JASON E. UHLEY
General Manager-Chief Engineer

Attachment
rlp

JASON E. UHLEY
General Manager-Chief Engineer

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RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

RESPONSE TO QUESTIONS

Perris Valley Channel Lateral B, Stage 4
Project No. 4-0-00009-04

This document has been prepared to clarify elements of the Contract Documents for the above-referenced project for which the Riverside County Flood Control and Water Conservation District (District) has received questions.

Question 1	What is the engineer's cost estimate for the project?
Answer	***The engineer's cost estimate for Perris Valley MDP Lateral B, Stage 4 project is approximately $20,500,000.***
Question 2	Section 8.02, Insurance – Indemnification/Hold Harmless/Defend section is asking for $2/$4 million Professional liability insurance. Does this have to be carried by the prime contractor if they are not doing any professional services? Can we limit the professional liability to only those providing or performing professional services?
Answer	***Section 8.02.1- Insurance requires the bidding contractor to hold the insurance and pass down insurance requirements to subcontractors. This means that the "Prime", as the bidding contractor, would have to hold the $2/$4 million Professional Liability Insurance. Contractor is defined in the General Provisions in Section 1.01(f) as the entity that enters into the contract with the District. The District will only enter into a contract with the "Prime" (not its sub-contractors).***
Question 3	Section 8.02.1 Insurance - Builder's Risk– is it required since there is not any building construction?
Answer	***Yes, Builder's Risk insurance is required. A Builder's Risk policy is intended to cover the entire structure including earthquake, flood, fire, lightening, hail, wind, theft and vandalism. The District requires the Contractor to obtain a Builder's Risk policy for the full value of the contract. An exception can be made only for earthquake builder's risk insurance to cover 5% of the total contract amount.***
Question 4	Is there a minority participation goal?
Answer	***The District does not have minority participation requirements.***
Question 5	Bid due date: The District has the exact same date and time for this bid as the City of Rialto Baseline Storm Drain which is also a $20 million scope. The City of Riverside also has a storm drain of $10 million bidding on the 21st (Monday prior). CalTrans also has a precast box in Riverside County bidding on July 31st. I recommend that all of you as owners consult with the pipe and box manufacturers to determine the best schedule for bidding that is more conducive to achieving good participation and reasonable production times.
Answer	***Considering there are four different box suppliers in Southern California and each project could be staged differently and have different production needs and schedules, the District does not find rescheduling the bid due date feasible at this time.***

Question 6	This Project has both Cast-in-Place and Precast RCB Items. Would the District consider adding optional bid items for Cast-in-Place in lieu of Precast RCB? This would allow for the District to benefit from potentially substantial cost savings. This option would not add any additional working days to the project.
Answer	***Due to hydraulic, constructability and March Airfield Base (MARB) operational factors, the District does not consider adding optional bid items for alternative types of RCB at this time.***
Question 7	Structure backfill - Will the CIP RCB backfill limits follow RCFC drawing #M815?
Answer	***Yes, cast-in-place RCB backfill limits shall follow RCFC standard drawing M815 and the provisions of Section 14-Earthwork of the Detailed Specifications.***
Question 8	Bid Item 4 Backfill quantities – appears to include the structure backfill of the CIP box culvert initem #10. The backfill specification 14.5 refers you to Greenbook 217-2, which requires the use of SE20 material for trench backfill. Further bid Specification 14.7 states "suitable surplus material" to be placed around reinforced concrete box"... The specifications do not provide soil tests, however the material is classified as silty sand, so it will likely not be SE20. In the absence of this soil data, will the native material be acceptable for Trench/structural backfill of the CIP box culvert or should we expect to import?
Answer	***The native material will be acceptable for cast-in-place RCB structure backfill despite its lower SE which varies between 10 and 13 based on geotechnical exploration lab tests. Jetting will not be allowed. Other factors determined during construction, such as inability of the backfill to achieve required relative compaction, may trigger import of suitable material, which will be paid separately.***
Question 9	Due to unknowns in question #8: 1. We request adding a separate item for structural backfill. 2. We also request a separate item for disposal of excess material.
Answer	***1. Based on the answer to Question 8, a separate item for CIP RCB structure backfill will not be added.*** ***2. Disposal of excess material is included in Item #5 – Excavation. Please refer to Section 14.3-Excavation of the Detailed Specifications – "Included in this item is the sawcutting (where necessary), removal and disposal of all surplus excavated material, asphalt, aggregate base, abandoned pipelines and concrete from within the excavation paylines as specified and as required."***
Question 10	Bid Item 10 – the balance of the CIP alignment can be built as precast RCB. Can Precast be used as a substitute? The exception would be the curved portion of the Double 10x10, which would be built as CIP. Please advise.
Answer	***Due to hydraulic, constructability and March Airfield Base operational factors, the District does not consider adding optional bid items for alternative types of RCB at this time.***
Question 11	What is the proposed contract duration?
Answer	***The Contractor shall diligently prosecute the work to completion before the expiration of 300 working days. Please refer to the project Special Provisions Section 2.3 – Time of Completion.***
Question 12	Which inner diameter dimension to reference for the concrete bulkhead on sheet 8 and RCFC STD DWG M816. Sheet 8 lateral B-8 is a RCB box. The standard drawing M816 referenced in note 35 on sheet 8 is for RCP pipe.
Answer	***96" inner diameter thickness and reinforcement schedule shall be used for the concrete bulkhead of the 8'Wx6'H RCB (Lateral B-8) on Sheet 8.***
Question 13	Are there any Disadvantage Business goals, requirements or good faith efforts required for this project? If so, what are they?
Answer	***There are no Disadvantage Business goals for District projects.***
Question 14	On plan sheet 23 the profile for lateral B-7 notes, **increased concrete coating and strength – see general note 24. However, there is no note 24 in the general notes on plan sheet 1. Please provide or clarify.
Answer	***The note should refer to General Note 15, not 24. The plans will be revised to reflect this correction.***

Question 15	Plan sheets 31 & 32 both indicate removing significant portions of the existing channel. Please provide as-builts and/or additional details so the full extent of the removals can be quantified.
Answer	***<u>Sheet 31</u> - There are no as-built plans available for the existing channel shown on Sheet 31. The existing channel is concrete lined with pieces of broken concrete slab grouted with concrete. For bidding purposes please consider the following channel dimensions: bottom width 25 feet, depth of the lined slope 4 feet, sideslopes 1.5:1 and thickness of the lining 6 inches. A picture of the existing channel is included at the end of the responses.*** ***<u>Sheet 32</u> - The upstream end of the project connects to the existing Stage 5 of Perris Valley Channel Lateral B. Please refer to District DWG No. 4-1158 for as-built plans of Stage 5. Bidders' attention is directed to Sheets 2, 3, 4, 27 and 28 of said as-built plans. DWG No. 4-1158 will be posted along with these responses and available for download. (DWG 4-1158 is referenced on Sheet 18 of the current bid plans).***
Question 16	The plan and profile sheets 2-18 show various easements, proposed TCE, existing property lines, city annexation line, SCE easement, etc. Will the contractor have access to all these areas to construct the project? If not, please clarify the limits.
Answer	***The contractor will be able to use for access and construction only the proposed and/or existing storm drain easements plus the temporary construction easement (TCE) areas.***
Question 17	On plan sheet 34, the detail for the concrete curb under security fence shows a 12" deep x 6" wide curb under the fence. However, the fence post footings (min 4 times post dia.) are shown to extend above grade to the top of curb. Please clarify if this is correct or is the intent that the post footings are 42" completely below grade with the concrete curb running above continuously under the fence.
Answer	***Post footings and fence curb are completely below grade. The grade is at the top of the post footings and fence curb.***
Question 18	Section 20.3 of the Detailed Specifications notes the concrete for the fence posts and curbs is covered in Section 16. Please confirm this concrete is paid under Section 16.18 Class B Concrete, Miscellaneous.
Answer	***Yes, the concrete for the Airforce Base Security Fence Posts and Airforce Base Security Fence Concrete Curb is paid under Section 16.18 - Class "B" Concrete, Miscellaneous and is included in the quantities of Bid Item No. 16 under the same name.***
Question 19	On plan sheet 41, General Note no. 2 states "Contractor shall utilize GPR ground penetrating radar to survey and trace all existing underground utility lines in areas where new trenching is planned. Contractor to submit GPR report to project manager for reviewing prior to trenching." Please clarify if GPR is required in addition to conventional potholing.
Answer	***Plan Sheet 41 is part of the electrical plans related to the relocation of the sluice gate. According to the Special Provisions Section 6.5.2 – Dig Permit, MARB and onsite utility purveyors will mark out known utilities along the construction alignment prior to construction. GPR will not be required for the purpose of this bid.***
Question 20	We respectfully request to revise the scope of Bid Items #10 and #13 by utilizing precast reinforced concrete box culverts in accordance with SPWWC 390-0 or Caltrans D83A/D83D in place of the specified D80/D81 CIP RCBs
Answer	***Due to hydraulic, constructability and MARB operational factors, the District does not consider adding optional bid items for alternative types of RCB at this time.***
Question 21	Due to many projects bidding near and on this day, we respectfully request a postponement to the bid opening by two weeks so that we can prepare a competitive bid.
Answer	***The District does not find rescheduling bid due date feasible at this time.***
Question 22	Sheet 26, detail #30 – Remove and replace fence/bollards in kind ~ 500LF. Please provide details for type of fence, type of bollard and Qty of both.
Answer	***Sheet 26, Construction Note No.30 shall read " Remove Existing 6' Chain Link Fence". Updated Plans will be posted along with the responses to bidders' questions.***
Question 23	Sheet 19, temp access road – Since it is outside of the Temp Fence. Is the temporary road dedicated for use by the government?
Answer	***Yes, the temporary base perimeter road outside of the temporary security fence is dedicated for use only by MARB.***

Question 24	Sheet 13 thru 16 (west of 55+50) - the easement is shown to be 45 to 50' and an additional 40' TCE, north of the existing Cantonment Fence. (I.E the TCE easement is separated from the work area by the fence and the fence is shown to protect in place). Further the TCE is not shown on plan view, so the working area limits are not clear. 1. Is the work area constricted to the 45 to 50' easement? 2. If the additional TCE is available but separated by a fence can the fence be removed and replaced? If so, please provide details and bid items for a Cantonment fence. 3. Or can materials be hoisted over the fence to build the CIP RCB?
Answer	***1. The work area will be constricted to the 45' easement for approximately 215' between the beginning of the 45' easement on Sheet 13 to Sta. 57+76.20 on Sheet 14. Additional 200' TCE within the private property to the south of the 45' easement will be available for the remaining portion of the storm drain alignment within said property. Sheets 13 through 16 will be updated to reflect available TCE. Additional available TCE are added to Sheets 17, 26 and 32.*** ***2. Although 40' TCE within MARB on the north of the cantonment fence is available, temporary security fence is not proposed at this location. This TCE is expected to be used only in exceptional situations in coordination with the engineer and MARB.*** ***3. Please see responses 1 and 2 above.***
Question 25	Similar to question #24 - Sheet 16 approximate Sta 66+75 shows the symbol for temp fence, but the fence is NOT shown on sheets 14 &15. This would make the quantity of item #32 5,632 LF. 1. Is it the intent to have temp fence between 55+50 to 66+75? 2. If the Cantonment fence can be replaced, please provide details and a bid item.
Answer	***1. No, temporary security fencing is not required between Sta 55+50 and 66+75. The temporary security fence shown on Sheet 16 shall extend northerly and will be shown on the updated plan set on Sheets 26 and 32. The length of this portion of the temporary security fence is 542' and is included in the overall quantity of Bid Item 28 – Temporary Security Fencing.*** ***2. Base cantonment fence does not need to be replaced from Sta 55+50 to Sta 66+75.***
Question 26	On sheets 6 & 7 – is it the intent to not replace the fence between 24+84 & 31+00?
Answer	***Yes, do not replace fence between Sta. 24+84 and 31+00. Only removal and disposal.***
Question 27	How does Junction Structure #3 (Sheets #2, #21 and #23) get paid?
Answer	***No separate payment will be made for Junction Structure No. 3. Please see the statement in the Detailed Specification between Sections 16.22 and 16.23***
Question 28	Item 35 – Adjust Manhole to grade. Where are these MH's Located?
Answer	***Manholes and their concrete pads between Sta 28+00 and 52+50 fall within the limits of the replaced asphalt concrete MARB maintenance road.***
Question 29	Where is Note 53 on sheet 22 paid? – Cut and remove interfering portion of existing EMWD Abandoned 12" CML&C Pipe.
Answer	***It is paid under Item 5 – Excavation. Detailed Specifications Section 14.3 – Excavation states: "Included in this item is the sawcutting (where necessary), removal and disposal of all surplus excavated material, asphalt, aggregate base, abandoned pipelines and concrete from within the excavation paylines as specified and as required.***
Question 30	Item 6 - Pavement Removal. Where is this work?
Answer	***Any pavement removal outside of trench limits. Please see Construction Note 5 on Sheet 6.***
Question 31	Can the existing, ungrouted Rip Rap that gets removed on sheet 28, be reused for Item 41?
Answer	***No, for the purpose of this bid, the existing riprap cannot be reused for the construction of the proposed new one. Any reuse of riprap is subject to engineer's approval during construction.***
Question 32	How many feet beyond the removed existing fence and replaced 7' high Airforce Security Fence between Sta. 24+84 and 55+50, is allowed for TCE? Can we use the SCG easement and up to the city annexation line for TCE?

Answer	***There is no available TCE beyond the fence removal and replacement between Sta 24+84 and 55+50. SCG easement and area to the city annexation line cannot be encroached. Private properties are located on the other side of MARB property line between Sta 31+00 and 55+50.***
Question 33	After the ILS Zone Security Fence is installed, are we allowed to enter the Project from the Existing Public Roads at Nandina/Patterson Ave and Van Buren Blvd?
Answer	***Entire temporary security fence, including ILS Zone security fence must be installed in order to access the construction site from the existing public roads***
Question 34	Is an emergency standby bypass pumping system required while working near the 10" force main sewer line that parallels the new Culvert?
Answer	***The intent is to protect the utility in place; therefore, the use of emergency standby bypass pumping system is not required. However, the contractor will still be responsible for accidental damages to all existing utilities.***
Question 35	Is the Contractor allowed to have his laydown area and Inspector/Contractor Field office within the work area, or will we be required to use offsite property?
Answer	***Inspector/Contractor field office is allowed to be within the work area. Location is subject to engineer's approval. Please see additional TCE easements plotted on the updated plans.***
Question 36	Is there a source for construction water on site or do we need to develop water from offsite?
Answer	***It is Contractor's responsibility to deliver water onsite.***
Question 37	Is there a source for Temporary Power onsite or will we need to provide from offsite?
Answer	***It is Contractor's responsibility to deliver power onsite.***
Question 38	Does the District have any available locations / ongoing Projects for disposal of excess dirt spoils?
Answer	***The District does not have available locations/ongoing projects for disposal of excess dirt.***
Question 39	General Provisions, Section VIII, Sub-section 8.02, under Builder's Risk there is the statement "Contractor shall obtain, at Contractor's expense, and keep in effect until final acceptance by the District, Builder's Risk Insurance (including earthquake and flood) covering the real and personal property of others in the care, custody, and control of the Contractor." Can you please advise whether the contractor is required to obtain earthquake and flood peril coverage limits for the entire contract value?
Answer	***Please see response to Question 3.***
Question 40	Will the owner allow a substitute for bid items #10 and #13 with precast per SPWWC 390-0 or Caltrans D83A/D83D in lieu of D80/D81; Approval could allow for better scheduling and reduce site impacts.
Answer	***Due to hydraulic, constructability and MARB operational factors, the District does not consider adding optional bid items for alternative types of RCB at this time.***
Question 41	Will the owner please provide the CAD files showing original contours, proposed contours, and alignments?
Answer	***CAD project files will not be available during bidding process. CAD files will be provided to the successful bidder upon request. A release form shall be signed by the contractor prior to receiving the files.***
Question 42	Since the project is technically within the limits of MARB is EM-385 compliance going to be required?
Answer	***EM-385 compliance will not be required.***
Question 43	The specification references Greenbook Standard Specifications, Caltrans Standard Specifications, United Facilities Specifications and RCFCD specifications., What are the governing specifications for this project?
Answer	***The last paragraph of Section 1.1 – Drawings and Specifications of the Special Provisions provides the answer to this question: "in case of conflict between the referenced specifications and these specifications, the latter shall govern" (District specifications). Furthermore: "In case of conflict between the drawings and the specifications, the drawings shall govern".*** ***In addition, under Instructions to Bidders, Article 2-Bidding Procedures, Article 2.8 – Discrepancies and Omissions states "Discrepancies, omissions, ambiguities, or requirements likely to cause disputes between trades and similar matters shall be promptly brought to the attention of the Engineer".***

Question 44	What are the pay limits for excavation and backfill for the cast in place RCB?
Answer	***Pay limits for cast-in-place RCB can be found in District Standard Drawing No. M815 – Excavation and Backfill Pay Lines.***
Question 45	Does the cast in place RCB require CLSM? If so, what are the CLSM pay lines?
Answer	***Cast-in-place RCB does not require CLSM backfill. Pay limits and specific backfill requirements can be found in District Standard Drawing No. M815 – Excavation and Backfill Pay Lines.***
Question 46	Does the cast in place RCB require 4 in of filter material below the RCB?
Answer	***Filter material is not required for cast-in-place RCB under normal conditions (non-groundwater condition). No groundwater or saturated soil were encountered during the filed geotechnical exploration to the maximum depth of 21.5' below existing ground. Pay limits and specific backfill requirements can be found in District Standard Drawing No. M815 – Excavation and Backfill Pay Lines.***
Question 47	Would it be acceptable to use a highline as a means of temporarily moving the 10" force main away from the excavation area? If yes, can you please provide requirements for that highline and the Force Main that will need to be reinstalled?
Answer	***The intent is to protect the utility in place; therefore, the use of emergency standby bypass pumping system is not required. However, the contractor will still be responsible for accidental damages to all existing utilities.***
Question 48	What is the minimum distance from the gas line in which mechanical excavation is allowed?
Answer	***The Gas Company did not specify minimum distance from the gas line in which mechanical excavation is allowed during their reviews of the proposed project. It is the Contractor's responsibility to protect all existing utilities in place.***
Question 49	What is the thickness of the concrete channel that is to be demolished between station 10+40.6 - 15+04.83?
Answer	***Please see response to Question 15.***
Question 50	What is the thickness of the existing rip rap to be removed?
Answer	***The existing riprap to be removed is specified as ¼ ton per District DWG 4-1158 as-built plans.***
Question 51	Does MARB or Riverside County have a location available to dispose of the excess excavation?
Answer	***Neither MARB nor the District have an available location for disposal of excess excavation.***
Question 52	The last sentence of specification section 20.2 for the 6-foot chain link fence says, "All posts shall be set in commercial plant quality, 4 sack per cubic yard concrete." Will this be paid under Class "B" Concrete Miscellaneous, or under the bid item for 6-foot chain link fence?
Answer	***The concrete for the post footings for the 6-foot chain link fence per District Standard DWG M801-Chain Link Fence Details is paid under the bid item for 6-foot chain link fence.***
Question 53	Since the temporary access road is on the runway side of the new temporary fence could MARB provide a haul route and speed limit information for delivery of the class II base.
Answer	***The temporary access road shall be constructed prior to the construction of the temporary security fence. Personnel and equipment shall enter MARB through their main entrance check point. Haul route and speed limits will be subject to MARB approval prior to beginning of construction and could be subject to change.***
Question 54	Does the temporary access road and fence need to be constructed and removed at night?
Answer	***No, temporary security fence and access road are not to be removed at night. Temporary access road is dedicated for use by MARB during construction in lieu of the removed perimeter maintenance road. The temporary security fence and access road will be in place for the duration of construction until such time the permanent security fence and original MARB perimeter maintenance road are restored.***
Question 55	Regarding "Base Security", after the background check will personnel be issued a DBIDS badge? Will a badge be required for all delivery drivers (fence and aggregate materials)?

Answer	***MARB issues visitor passes limited in time and visiting hours for all persons entering the Base. The Contractor is advised to contact the fence and aggregate vendors and request they contact the Base and procure clearances for their delivery drivers and equipment prior to beginning of construction.***
Question 56	What are the limits of the tubular steel fence remove and replace? Will it be to the limits of the Proposed Storm drain easement shown on sheet 17 of 42?
Answer	***Yes, the limits of the tubular fence removal and replacement are to the limits of the proposed storm drain easement.***
Question 57	Please confirm that the Temporary ILS Zone Security Fencing razor wire that is staked to the ground is made of steel.
Answer	***Yes, the razor wire is made of steel.***
Question 58	What is the spacing of the 2x4 posts for the Temporary ILS Zone Fencing?
Answer	***The spacing for the 2x4 post is 6'-8".***
Question 59	What is the spacing of razor-wire staking for the Temporary ILS Zone Fencing?
Answer	***The recommended spacing between the razor wire stakes is between 6 and 10 feet. The exact spacing will be determined onsite subject to MARB approval.***
Question 60	Please provide details or specs of acceptable non-metallic fasteners for connecting the mesh to the wood frame for the temporary ILS fence
Answer	***The District does not recommend any specific non-metallic fastener for attaching the mesh to the wood frame.***
Question 61	Can nails be used to connect the 2x4s used for the fence frame for the Temporary ILS Fence? If not, please provide acceptable alternatives.
Answer	***Yes, nails can be used to connect the 2x4 frame for the temporary ILS zone fence.***
Question 62	What are the limits of the remove and replace with 7' high fence on sheet 2?
Answer	***The plans have been updated to show the beginning and the end of the removal and replacement of the 7' Airforce Base Security Fence on Sheet 2. Line D grate inlet is moved 4 feet to west in order to avoid a conflict with the fence, please see updated plans Sheets 2, 21 and 25.***
Question 63	Sheet 4 shows note number 12 in the legend, but there does not appear to be any callouts on the plan sheet. Please confirm that there is no 7' fence replacement on this plan sheet.
Answer	***Sheet 4 does not have Construction Note 12 in the legend, but Sheet 6 does. The plans will be amended to remove Construction Note 12 from Sheet 6.***
Question 64	Sheet 7 shows note number 12 in the legend, please confirm the remove and replace starts where the fence removal ends at STA 31+00.
Answer	***Yes, the removal and replacement of 7' MARB Cantonment Fence starts at the end of fence removal at STA 31+00.***
Question 65	Sheet 9 and 10 cutoff the fence line shown for note 12, what are the limits of the remove and replace 7' fence on these pages?
Answer	***MARB 7' Cantonment Fence shall be removed and replaced from Sta 36+00 to 40+00 on Sheet 9 and between Sta 40+00 to 44+00 on Sheet 10.***
Question 66	Which bid item does the pipe sleeves for fence posts over the transition structure get paid under?
Answer	***Pipe sleeves will be paid under Bid Item # 27 – Airforce Base Security Fence.***
Question 67	Please confirm the quantity for bid item 10, the quantity seems to be low.
Answer	***The District confirms the quantity of Bid Item No. 10 (Class "A" Concrete, Reinforced Concrete Box) as 6,810 CY. Please note that the cast-in-place RCB for the project shall be constructed per Caltrans D80/D81-2018 Edition.***
Question 68	Are there Minutes from the Non-Mandatory Pre-Bid meeting of June 17, 2025?
Answer	***Yes, the Pre-Bid Meeting minutes are posted along with these responses.***
Question 69	In the General Provisions, Section 8.02 "Insurance", does the Owner truly need both Builder's Risk and Pollution/Asbestos Liability Insurance Policies for this project?
Answer	***Yes, Builder's Risk and Pollution/Asbestos Liability Insurance Policies are required. Please refer to the response of Question 3 for additional details related to the Builder's Risk insurance requirements.***

Question 70	In the Special Provisions, Section 6.11, does the Owner truly need a Job Site Trailer with all the furnishings listed or can we rent an office space nearby?
Answer	***Yes, the owner requires a job site trailer as described in Section 6.11 of the Special Provisions.***
Question 71	Are Traffic Control Plans required by the City of Perris and RCFCD for this project?
Answer	***There is relatively limited construction proposed in public road R/W limits outside of travel way (please see Sheet 22) and as such, the District did not prepare Traffic Handling Plans. It is responsibility of the Contractor to comply with the requirements of City of Perris related to traffic control.***
Question 72	In the Special Provisions, Section 16.12, can the Contractor lay back the excavation for the Class A Concrete RCB and DBL form it the open trench instead of directly against timber or steel sheeting?
Answer	***Yes, according to the referenced Section 16.12, "The Contractor has an option of forming both sides of the reinforced concrete box walls " and "If the box is constructed from State of California, Department of Transportation Standard Plans, either method of forming noted in the above paragraphs may be used without an alternate box design being submitted".***
Question 73	Can the Contractor use Precast RCB for the entire project even where the plans call out for Class A Concrete RCB (Cast-In-Place RCB)?
Answer	***Due to hydraulic, constructability and MARB operational factors, the District does not consider adding optional bid items for alternative types of RCB at this time.***
Question 74	On the Plan Sheet 30/42 for the detail of the DBL Precast RCB, can the Contractor eliminate the 3" Gap in between the Units and place the Precast RCB Side by Side?
Answer	***No, the 3" gap filled with CLSM between the units cannot be eliminated. Caltrans Standard Drawing D83B was followed in specifying the gap.***
Question 75	Can RCFCD make arrangements with MARB for the Contractor to inspect the project next week?
Answer	***No, arrangements for project inspection inside MARB in such short notice cannot be made.***
Question 76	Contractor is requesting acceptance of precast RCB (SPWWC 390-0 or Caltrans D83A/D83D) in lieu of D80/D81 for Bid Items #10 and #13. This approval would streamline construction and lessen disturbance to the site.
Answer	***Due to hydraulic, constructability and MARB operational factors, the District does not consider adding optional bid items for alternative types of RCB at this time.***
Question 77	Sheet 2 & 3, Protect existing fence Sta 10+43 to ~15+50 – existing fence on southside of channel cannot be protected in place because the new RCB is in the same alignment. Please provide bid item that this removal and replacement should be priced. As well as what temporary fence or other measures will be required.
Answer	***The plans and the typical sections at Sta 11+50 on Sheet 2 and at Sta 13+50 on Sheet 3 indicate the clearance between the RCB and existing fence is between 13' and 14.5'. The contractor will be required to protect existing fence on Sheets 2 and 3 in place.***
Question 78	Sheets 2 thru 17 – please confirm that the cross sections in the upper right corner of each sheet are facing down station.
Answer	***Yes, the typical cross section is cut looking downstream.***

AE:rlp



Question 15: Existing downstream channel to be removed as shown on Sheet 31

SPECIFICATIONS and CONTRACT DOCUMENTS
for the CONSTRUCTION of

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4

PROJECT NO. 4-0-00009-04

These specifications and contract documents have been prepared under the direction of the following Registered Civil Engineers:

Recommended By:

Design Engineer — Date 5/1/25

REGISTERED PROFESSIONAL ENGINEER
KAMYAR GHODS
No. 72196
CIVIL
STATE OF CALIFORNIA

Approved By:

General Manager-Chief Engineer — Date 5/2/2025

REGISTERED PROFESSIONAL ENGINEER
JASON E. UHLEY
No. 59795
CIVIL
STATE OF CALIFORNIA

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NOTICE INVITING BIDS TO CONTRACTORS

Riverside County Flood Control and Water Conservation District hereinafter called "District", invites sealed proposals for construction of:

Perris Valley Channel Lateral B, Stage 4
Project No. 4-0-00009-04
located in the city of Perris
Riverside County, California

On or after **June 10, 2025**, the Specifications and Contract Documents may be examined and obtained through www.bidnetdirect.com. The Specifications and Contract Documents may also be viewed at the District's office at 1995 Market Street, Riverside, California, and purchased from the District for **$60.00** per set if picking up and **$65.00** per set if requesting to be mailed. No refunds.

When appropriate, Addenda will be issued by the District. The Addenda can be obtained through the link to 'Currently Advertised Projects' on the District's website at: https://rcflood.org/Business/Construction-Bid-Opps/. Bidders are required to acknowledge receipt of all Addenda at the bottom of Page XVc of the Proposal. The Addenda will include a signature line for this acknowledgment. Failure to acknowledge all Addenda on the bid form may cause the bid to be considered not responsive to the invitation.

Each proposal must be accompanied by a bid security in the form of a certified check, cashier's check or bid bond equal to ten percent (10%) of the amount bid, payable to the Riverside County Flood Control and Water Conservation District as a guarantee that the Contractor will, if awarded the contract, execute a satisfactory contract and furnish the required bonds and proof of insurance.

Bid Proposals must be placed in a sealed envelope clearly marked "Bid Proposal". Bid Proposals must be in accordance with the instructions and other Contract Documents and filed with the District by **2:00 p.m. on Thursday, July 24, 2025** at 1995 Market Street, Riverside, California, which time and place are fixed for the public opening of bids. A **non-mandatory** pre-bid review will be conducted **at the District on Tuesday, June 17, 2025 at 2:00 p.m.**

Any questions, requests for information and requests for clarification or interpretation of the Specifications must be submitted in writing to the District attention:

Entcho Anguelov
Email: EAnguelo@rivco.org
OR
Hard Copy: Riverside County Flood Control and Water Conservation District
1995 Market Street, Riverside, CA 92501
Attn: Entcho Anguelov

Questions or requests must be received **no later than 5:00 p.m. on Thursday, July 3, 2025**.

Pursuant to Labor Code Section 1771.1, any Contractor bidding and subcontractors to be listed on a Bid Proposal are subject to Public Contract Code Section 4104 and shall not be eligible to bid unless currently registered with the Department of Industrial Relations and qualified to perform public works pursuant to Labor Code Section 1725.5. No Contractor or subcontractor may be awarded a public works project or enter into a Contract without proof of current registration to perform public works.

General prevailing rate of per diem wages and general prevailing rate of per diem wages for holiday and overtime work, including employer payments for health and welfare, pension, vacation, apprentices and similar purposes for each craft, classification or type of workman needed for execution of contracts under the jurisdiction of District have been obtained by the Board of Supervisors of the District from the Director of Industrial Relations of the State of California for the area where the work is to be done. The said determinations are on file in the principal office of the District and will be made available to any interested person upon request and can also be found at http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm.

THIS PROJECT IS SUBJECT TO COMPLIANCE MONITORING AND ENFORCEMENT BY THE DEPARTMENT OF INDUSTRIAL RELATIONS. The awarded prime Contractor shall post job site notices, including a copy of the prevailing rate of per diem wages determinations made by the Director for the Department of Industrial Relations and other notices prescribed by regulations and comply with the provisions of the California Labor Code, including, without limitation, Sections 1771.4, 1773.1, 1773.2, 1774, 1775, 1776, and 1777.5.

Contractor shall furnish the records specified in Labor Code Section 1776, including but limited to the certified payroll records, directly to the Labor Commissioner for the Department of Industrial Relations.

Substitution of securities for any moneys withheld by District shall be permitted as provided for by Section 22300 of the California Public Contract Code.

Contractors submitting proposals for this project shall have an active and in good standing Class "A" Contractor's license from the State of California in order to be considered eligible for the contract award. The license(s) shall remain active and in good standing throughout the entire duration of the project.

With the submittal of the Bid Proposal and other Contract Documents, the Contractor shall submit for approval by the District documented evidence of satisfaction of all of the Bidder Qualifications listed above and in accordance with Articles 1 through 4 of the Instructions to Bidders.

Dated: June 10, 2025

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

KIMBERLY RECTOR
Clerk of the Board

BY _____
Deputy

INSTRUCTIONS TO BIDDERS

ARTICLE 1
GENERAL CONDITIONS

1.1 DEFINITIONS

Capitalized terms used on the Contract Documents shall have the meanings assigned to them in the Construction Agreement, Bonds, other Forms, General Provisions, and Specifications and Contract Documents that are included in the Contract Documents. Capitalized terms not so defined shall have the meanings assigned to them in, or if none is assigned as reasonably interpreted according to the context of, the portion of the Contract Documents where such terms are used.

1.2 QUANTITIES

The amount of work to be done or materials to be furnished under the contract as noted in the proposal, are but estimates and are not to be taken as an expressed or implied statement that the actual amount of work or materials will correspond to the estimate.

The right is reserved to increase or decrease or to entirely eliminate certain items from the work or materials if found desirable or expedient.

The Contractor will be allowed no claims for anticipated profits, loss of profits or for any damages of any sort because of any difference between the estimated and the actual amounts of work done, or materials furnished or used in the completed project.

The Contractor is cautioned against unbalancing of his bid by prorating his overhead into one or two items only when there are a number of items on the schedule. The overhead and indirect charges should be prorated on all items in schedule.

1.3 AGREEMENT OF FIGURES

If the unit prices and the total amounts named by the bidder in the proposal do not agree, the unit prices alone will be considered as representing the bidder's intention.

1.4 "OR EQUAL"

Pursuant to Division 2, Chapter 3, Article 5, commencing at Section 3400 of the Public Contract Code, all specifications shall be deemed to include the words "or equal", provided, however, that permissible exceptions or other requirements shall be specifically noted in the specifications. Any "equal" proposed by the Contractor must be described in the Contractor's Proposal.

1.5 INSPECTION OF SITE

Bidders must examine the site and acquaint themselves with all conditions affecting the work.

Information derived from maps, plans or specifications, or from the Chief Engineer or his assistants, will not relieve the successful bidder from properly carrying out all the terms of the written contract.

By the submitting of a proposal, the bidder will be held to have personally examined the site and the drawings, to have carefully read the specifications and to have satisfied himself as to his ability to meet all the difficulties attending the execution of the proposed contract before the delivery of his proposal and agrees that if he is awarded the contract, he will make no claim against the District and the County of Riverside, (including their respective officers, districts, special districts and departments, their respective directors, officers, Board of Supervisors, elected and appointed officials, employees, agents and representatives) based on ignorance or misunderstanding of the contract provisions.

1.6 QUALIFICATIONS OF BIDDERS

No proposal will be accepted from a Contractor who is not licensed under laws of California, as evidenced by the submittal of the Statement of Licensure. No award will be made to any bidder who cannot give satisfactory assurance to the District as to his own ability to carry out the contract, both from his financial standing and by reason of his previous experience as a Contractor on work of the nature contemplated in the contract. The bidder is required to submit his record of work of similar nature to that proposed under these specifications, and unfamiliarity with the type of work may be sufficient cause for rejection of a proposal.

A bid shall be rejected and a bidder shall be disqualified to bid on a District project if the bidder or any officer, manager, partner or shareholder of the bidder within the eighteen month period prior to the bid date shall have been an officer or employee of the District.

1.7 CONTRACTOR REGISTRATION

In accordance with the Labor Code (especially Sections 1725.5 and 1771.1), prior to submitting a proposal to District, all Contractors and Subcontractors must register as a "Public Works Contractor" with the Department of Industrial Relations (DIR) using the online application. Contractor's and Subcontractor's DIR Registration Number must be listed in the appropriate space on Contractor's Proposal form. This project is subject to compliance monitoring and enforcement by the DIR.

1.8 BALANCE BID

The Contractor is cautioned against unbalancing of its Bid by including its overhead and profit into one or two items only when there are a number of items on the schedule. The overhead and indirect charges should be prorated on all items in the schedule.

1.9 ANTI-DISCRIMINATION

It is the policy of the District that, in connection with all work performed under the Construction Agreement, there be no discrimination against any prospective or active employee engaged in the Work because of race, color, ancestry, national origin, religious creed, sex, age, marital status, or sexual preference. The Contractor agrees to comply with applicable Federal and California laws including, but not limited to, the California Fair Employment Practice Act, beginning with Labor Code Section 1410, and Labor Code Section 1735. In addition, the Contractor agrees to require like compliance by any subcontractors employed on the Work.

1.10 REQUIRED SUBMITTALS

There are a number of forms and other documents required as submittals by the Bidder during the various stages of the project. The following table provides a checklist of submittals required by the Bidder as requested in the Contract Documents. Bidders shall be made aware that the documents listed in the following table do not guarantee a complete submittal package.

	BID DOCUMENT	SUBMITTAL TIMEFRAME
☐	Contractor's Proposal	with Bid Proposal
☐	List of Subcontractors	with Bid Proposal
☐	Experience Statement	with Bid Proposal
☐	Statement of Licensure	with Bid Proposal
☐	Non-Collusion Declaration	with Bid Proposal
☐	Iran Contracting Act Certification	with Bid Proposal
☐	Compliance with Economic Sanctions Certification	with Bid Proposal
☐	Bid Bond (10% of Contract Price)	with Bid Proposal
☐	Construction Agreement	within **7 days** of Notice of Intent to Award
☐	Performance Bond (100% of Contract Price)	within **7 days** of Notice of Intent to Award
☐	Payment Bond (100% of Contract Price)	within **7 days** of Notice of Intent to Award
☐	Workers' Compensation Contractor Certificate	within **7 days** of Notice of Intent to Award
☐	Declaration of Sufficiency of Funds	within **7 days** of Notice of Intent to Award
☐	Certificates of Insurance	within **7 days** of Notice of Intent to Award
☐	Construction Schedule	within **14 days** of Notice of Intent to Award
☐	Schedule of Values	within **14 days** of Notice of Intent to Award
☐	Affirmative Action Compliance Program (for Contractors with 50+ Employees)	within **30 days** of Award of Contract

ARTICLE 2
BIDDING PROCEDURES

2.1 PROPOSAL FORMS

Attention of all bidders is called to all bid proposal forms attached hereto. Bidders are cautioned that all bid proposals submitted must be accompanied by all forms properly executed.

2.2 SUBMISSION OF BID PROPOSALS

All copies of the Contractor's Proposal, Bid Security, and other Bid Proposal Submittals shall be enclosed by the Bidder in a sealed opaque envelope. Said envelope, as well as any other, outer envelope or packaging in which said envelope may have been placed by Bidder or the carrier for delivery, shall be addressed and delivered as provided in the Notice Inviting Bids to Contractors.

2.3 TIMELY RECEIPT

The Bidder assumes full and sole responsibility for timely receipt of its Bid Proposal, including its Bid Security and all other Bid Submittals, at the location designated in the Notice Inviting Bids to Contractors.

2.4 DELIVERY METHOD OF BID PROPOSAL

Submittal of Bid Proposals shall be by hand delivery or mail, only. Oral, telephonic, telegraphic, facsimile or other electronic transmission is not permitted.

2.5 INVALID BID PROPOSALS

Bid Proposals submitted by fax or e-mail and those which fail to reach the place fixed for opening of Bid Proposals prior to the date and hour set for opening same will not be considered.

2.6 BID SECURITY

Bid Security. Each Bid shall be accompanied by a Bid Security in the form of 1) cash, 2) a certified or cashier's check made payable to the Riverside County Flood Control and Water Conservation District, or 3) a Bid Bond (using the form of Bid Bond included in the Bidding Documents) issued by an Admitted Surety, in an amount equal to at least ten percent (10%) of the Bid Amount, as a guarantee that the Bidder, if awarded the Construction Contract, will enter into a Construction Contract with the District and furnish the Performance Bond, Payment Bond and other Post-Award Submittals required by the Bidding Documents. Should the Bidder refuse to enter into the Construction Contract or fail to furnish the Performance Bond, Payment Bond or any other Post-Award Submittals within the required timeframes as applicable, then the Bid Security shall be forfeited to the District in an amount equal to the difference between the amount of Bidder's Bid Amount and the amount for which the District may procure the work from another Bidder plus the costs to the District of redrafting, redrawing and republishing the Bidding Documents.

Retention by District. The District will have the right to retain the Bid Security of any Bidder to whom an Award is being considered until either (1) the Construction Contract has been executed and the Performance Bond, Payment Bond and other Post-Award Submittals have been furnished, or (2) all Bids have been rejected.

Return of Proposal Guarantees. Within ten (10) days after the award of the contract, the District will return the proposal guarantees accompanying such of the proposals as are not considered in making the award. All other proposal guarantees will be held until the contract has been fully executed, after which they will be returned to the respective bidders whose proposal they accompany.

2.7 SUBLETTING AND SUBCONTRACTING

Bidders are required, pursuant to the Subletting and Subcontracting Fair Practices Act (commencing with Section 4100 of the Public Contract Code) to list in their proposal the name and location of place of business of each subcontractor who will perform work or labor or render services in or about the construction of the work or improvement or a subcontractor who specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the Plans and Specifications, in excess of one-half (½) of one percent (1%) of the prime Contractor's total bid. Failure to list a subcontractor for a portion of the work means that the prime Contractor will do that portion of the work. Contractor shall list only one subcontractor for each portion as is defined by the Contractor in the Contractor's Bid Proposal.

2.8 DISCREPANCIES AND OMISSIONS

Discrepancies, omissions, ambiguities, or requirements likely to cause disputes between trades and similar matters shall be promptly brought to the attention of the Engineer. When appropriate, Addenda will be issued by the District. No communication by anyone as to such matters except by an Addendum affects the meaning or requirements of the Contract Documents.

2.9 ADDENDA

Interpretations, corrections, clarifications and changes to the Contract Documents will be made by Addenda. The District reserves the right to issue Addenda to the Contract Documents at any time prior to the time set to open bids.

Addenda will be posted on and available to the public through the link to 'Currently Advertised Projects' on the District's website at: https://rcflood.org/Business/Construction-Bid-Opps/.

Prospective Bidders who obtain the bid package directly from the District's office are requested to provide their name and contact information for the purpose of receiving Addenda. Copies of Addenda will be transmitted directly to those Prospective Bidders electronically or in hard copy based on the information provided at time of picking up the bid package.

To be considered responsive to the invitation for bids, a Contractor's Proposal must acknowledge by signature all issued Addenda. Failure of the Bidder to receive any Addendum shall not relieve the Bidder from any of its obligations under its Contractor's Proposal. The costs of performance by Bidder of all items of Work and other obligations contained in all Addenda issued by the District shall be deemed included in the amount of the Contractor's Proposal.

2.10 RESPONSE TO QUESTIONS

Any questions or requests for information must be submitted in writing to the District attention:

Entcho Anguelov
Email: EAnguelo@rivco.org
OR
Hard Copy: Riverside County Flood Control and Water Conservation District
1995 Market Street, Riverside, CA 92501
Attn: Entcho Anguelov

Questions or requests must be received **no later than 5:00 p.m. on Thursday, July 3, 2025**.

2.11 POSTPONEMENT

The District reserves the right to postpone the time and date for the public opening of bids as specified in the Notice Inviting Bids to Contractors by issuance of an Addendum to the Contract Documents at any time prior to the specified time and date for public opening of bids.

2.12 REJECTION OF BID PROPOSALS CONTAINING ALTERATIONS, ERASURES OR IRREGULARITIES

Bid Proposals may be rejected if they show any alterations of form, additions not called for, conditional Bid Proposals, incomplete Bid Proposals, erasures, or irregularities of any kind. Erasures or interlineations in the Bid Proposal must be explained or noted over the signature of the Bidder. The District may determine as unresponsive any Bid Proposal in which any statement or representation made or incorporated by reference in the Contractor's Proposal, including any Bid submittal comprising the Bid Proposal, is false, incorrect or materially incomplete and misleading.

2.13 DISQUALIFICATION OF BIDDERS

More than one proposal from an individual, a firm or partnership, a corporation or an association under the same or different names will not be considered. Reasonable ground for believing that any bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such bidder is interested. If there is any reason for believing that collusion exists among the bidders, none of the participants in such collusion will be considered in awarding the contract. Proposals in which the prices obviously are unbalanced may be rejected.

2.14 WITHDRAWAL OF PROPOSALS

Any proposal may be withdrawn at any time prior to the hour fixed in the Notice to Contractors for the opening of proposals, provided that a request in writing, executed by the bidder or his duly authorized representative, for the withdrawal of such proposal, is filed with the Chief Engineer. The withdrawal of a proposal shall not prejudice the right of a bidder to file a new proposal.

2.15 IRAN CONTRACTING ACT

In accordance with Public Contract Code Section 2204(a), prior to bidding on, submitting a proposal or executing a contract or renewal for a District contract for goods or services of $1,000,000 or more, a Contractor must either:

a) Certify it 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 Section 2203(b) and 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
b) Demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d).

To comply with this requirement, please insert your Contractor or financial institution name and Federal ID Number (if available) and complete one of the options on Page XX. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of $250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

2.16 ECONOMIC SANCTIONS IN RESPONSE TO RUSSIA'S ACTIONS IN UKRAINE

The Contractor must certify that it is not a target of economic sanctions imposed by the United States government or the State of California in response to Russia's actions in Ukraine. The Contractor is required to comply with the economic sanctions imposed in response to Russia's actions in Ukraine, including with respect to, but not limited to, the federal executive orders identified in California Executive Order N-6-22, located at https://www.gov.ca.gov/wp-content/uploads/2022/03/3.4.22-Russia-Ukraine-Executive-Order.pdf, and the sanctions identified on the United States Department of the Treasury website at https://home.treasury.gov/policy-issues/financial-sanctions/sanctions-programs-and-country-information/ukraine-russia-related-sanctions.

The Contractor is required to comply with all applicable reporting requirements regarding compliance with the economic sanctions, including, but not limited to, those reporting requirements set forth in California Executive Order N-6-22 for all parties with one or more agreements with the State of California, the County of Riverside, or any other local agency, with a value of Five Million Dollars ($5,000,000) or more. Notwithstanding any other provision in these documents, failure to comply with the economic sanctions and all applicable reporting requirements may result in disqualification or termination of the Construction Agreement, if awarded. For Contractors with an agreement value of Five Million Dollars ($5,000,000) or more with the State of California, the County of Riverside, or any other local agency, reporting requirements include, but are not limited to, information related to steps taken in response to Russia's actions in Ukraine, including, but not limited to:

1. Desisting from making any new investments or engaging in financial transactions with Russian institutions or companies that are headquartered or have their principal place of business in Russia;
2. Not transferring technology to Russia or companies that are headquartered or have their principal place of business in Russia; and
3. Direct support to the government and people of Ukraine.

To comply with this requirement, please insert your Contractor name and Federal ID Number (if available) on the Certification Form on Page XXI, execute by a duly authorized representative for the contractor, and return with the bid proposal.

2.17 PUBLIC OPENING OF PROPOSALS

Proposals will be opened and read publicly at the time and place indicated in the Notice Inviting Bids to Contractors. Bidders or their authorized agents are invited to be present.

ARTICLE 3
CONSIDERATION OF BIDS

3.1 BASIS OF AWARD

The award of the Contract, if it be awarded, will be to the lowest responsible and qualified Bidder based upon all Bid items.

3.2 NOTICE OF INTENT TO AWARD

Within thirty (30) days following public opening and reading of Bids, the District will issue a Notice of Intent to Award identifying the name of the Bidder to whom the District intends to Award the Construction Contract. Such notice will be posted under Public Notices at rcflood.org. The District may, in its sole and absolute discretion, elect to extend the time for its issuance of its Notice of Intent to Award.

3.3 BID PROTESTS

Any Bidder submitting a Bid Proposal to the District may file a protest of the District's proposed Award of the Construction Contract provided that each and all of the following are complied with:

1. The bid protest is in writing.

2. The bid protest is both: (1) filed with and received by David Garcia at the following address, 1995 Market Street, Riverside, California, not more than five (5) days following the date of issuance of the Notice of Intent to Award. Failure to timely file and serve the bid protest as afore stated shall constitute grounds for the District's denial of the bid protest without consideration of the grounds stated therein.

3. The written bid protest sets forth, in detail, all grounds for the bid protest, including without limitation all facts, supporting documentation, legal authorities and argument in support of the grounds for the bid protest. Any grounds not set forth in the bid protest shall be deemed waived. All factual contentions must be supported by competent, admissible and credible evidence. Any bid protest not conforming to the foregoing shall be rejected as invalid.

4. Provided that a bid protest is filed in conformity with the foregoing, the General Manager-Chief Engineer, or such individual(s) as may be designated by the General Manager-Chief Engineer in his/her discretion, shall review and evaluate the basis of the bid protest, and shall provide a written decision to the Bidder submitting the bid protest, either concurring with or denying the bid protest. The written decision of the General Manager-Chief Engineer or his/her designee shall be final, unless overturned by the Board of Supervisors.

5. An inadvertent error in listing the California contractor license number or DIR public works contractor registration number for a subcontractor shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive if the corrected number is submitted to the basis of the Engineer's estimate of the quantities of work to be done.

6. District within 24 hours after the bid opening and provided the corrected number corresponds to the submitted name and location for that subcontractor.

ARTICLE 4
POST-NOTICE OF INTENT TO AWARD

4.1 POST-NOTICE OF INTENT TO AWARD SUBMITTALS

Within the time periods set forth below, the successful Bidder identified in the Notice of Intent to Award as the successful Bidder shall submit the following additional Post-Notice of Intent to Award submittals, completed and signed in the manner required by the Contract Documents, to the District at 1995 Market Street, Riverside, California 92501:

4.1.1 Within seven (7) days after issuance by District to Bidder of the Notice of Intent to Award and prior to contract award, such Bidder shall submit to the District the following:

(1) Construction Agreement duly executed by the authorized delegate of the Contractor;
(2) Performance Bond and Payment Bond (issued by Surety), as set forth in Section 4.2 below;
(3) Evidence of Insurance, as specified by the Contract Documents;
(4) Workers' Compensation Certificate, in the form specified by the Contract Documents; and
(5) Declaration of Sufficiency of Funds (required only if the Bidder has not entered into a collective bargaining agreement covering the workers to be employed for performance of the Work), in the form specified by the Contract Documents.

4.1.2 Within fourteen (14) days after issuance by District to Bidder of the Notice of Intent to Award and prior to commencement of the Work, such Bidder shall submit to the District the following:

(1) Construction Schedule, prepared by Bidder in the manner required by Section 2.02 of the General Provisions; and
(2) Schedule of Values, prepared by Bidder in the manner required by the Specifications and Contract Documents.

4.2 CONTRACT SECURITY – PERFORMANCE BOND AND PAYMENT BOND

The Contractor shall furnish two (2) surety bonds, each in quadruplicate, one as a security for the faithful performance of the contract in the amount equal to one hundred percent (100%) of the contract price, and one as security for the payment of all persons performing labor and furnishing materials in connection with the contract in an amount equal to one hundred percent (100%) of the Contract Price. The penal sums of the Performance Bond and Payment Bond shall each be initially in the amount of one hundred percent (100%) of the Contract Price. The penal sum may be required to be increased for Contract Adjustments increasing the Contract Price that are authorized by Change Order.

All bonds must be submitted on forms provided by the District. Bonds submitted in any other form will not be accepted.

Prior to the execution of the Contract, the Contractor shall furnish to the District the required, original, Performance and Payment Bonds, issued by an admitted surety and shall have a A.M. Best's Insurance Rating of A VIII (A:8) or better rated surety company, authorized to do business in the State of California. The Bonds shall be executed by an authorized attorney-in-fact for the Surety company and his/her original or certified copy Power of Attorney must be attached to the Bonds. Premiums for Bonds shall be paid by the Contractor. Notary acknowledgements of the signatures of the Contractor and Surety(ies) is required. The attorney-in-fact who executes the required Performance Bond and Payment Bond on behalf of the Surety shall affix thereto a certified and current copy of the Power of Attorney authorizing such attorney-in-fact to execute same on behalf of such Surety. Should any Surety on the Performance Bond or Payment Bond be deemed unsatisfactory by the District, Contractor shall upon notice promptly substitute new bonds satisfactory to the District.

If the Performance Bond provides for a one-year warranty, a separate Maintenance Bond is not necessary. If the warranty period specified in the contract is for longer than one year, a Maintenance Bond equal to ten percent (10%) of the contract price is required. Bonds shall be duly executed by a responsible corporate surety, authorized to issue such bonds in the State of California and secured through an authorized agent with an office in California.

4.3 FORFEITURE FOR FAILURE TO POST SECURITY AND EXECUTE AGREEMENT

In the event the Bidder, to whom an award will be made, fails or refuses to post the required bonds and provide the required certificates of insurance and fails to return executed copies of the Construction Agreement within seven (7) days after the prescribed forms are presented to it for signature, the District may declare the Bidder's Bid deposit or bond forfeited as damages caused by the failure of the Bidder to post such security and execute such copies of the Construction Agreement and may award the Work to the next lowest responsible Bidder, or may call for new bids.

4.4 AWARD OF CONTRACT

The right is reserved to reject any and all proposals and to waive technical defects as the best interests of the District may require. The award of the Contract, if it be awarded, will be to the lowest responsible bidder whose proposal complies with the requirements prescribed. The award, if made, will be made within sixty (60) days after the opening of the proposals. All proposals will be compared on the basis of the Engineer's estimate of the quantities of work to be done.

CONTRACTOR'S PROPOSAL

TO THE BOARD OF SUPERVISORS OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT:

The undersigned hereby declare(s):

(a) That the only persons or parties interested in this proposal as principals are the following:

Name of Company (and dba if applicable) ("Contractor"): KEC Engineering

SCOTT PFEIFFER - PRESIDENT — CHARLES HICKMAN - V.P. / MANAGER

STEVE STANDALE - SECRETARY/TREASURER

(If the Contractor is a corporation, give the name of the corporation and the name of its president, secretary, treasurer, and manager. If a copartnership, give the name under which the copartnership does business, and the names and addresses of all copartners. If an individual, state the name and address under which the contract is to be drawn.)

(b) That this proposal is made without collusion with any other person, firm or corporation.

(c) That he has carefully examined the location of the proposed work, and has familiarized himself with all of the physical and climatic conditions, and makes his proposal solely upon his own knowledge.

(d) That he has carefully examined the attached specifications as referred to, and the plans, and makes this proposal in accordance therewith.

(e) That, if this proposal is accepted, he will enter into a written contract with the Riverside County Flood Control and Water Conservation District, Riverside, State of California.

(f) That he proposes to enter into such contract and to accept in full payment for the work actually done thereunder the prices shown in the attached schedule. It is understood and agreed that the quantities set forth are but estimates, and that the unit prices will apply to the actual quantities whatever they may be, subject to such adjustments and alterations as elsewhere provided for in the Contract Documents.

As bid security, accompanying this proposal is a certified or cashier's check or bid bond payable to the order of the Riverside County Flood Control and Water Conservation District, Riverside, California, in the sum of

10% of bid price Dollars ($_____)

THE REQUIRED REFERENCES AND OTHER REQUIRED DOCUMENTS MUST BE ATTACHED TO THIS BID PROPOSAL

It is understood and agreed that should the Contractor within seven (7) days after the prescribed forms are presented to him for signature fail to return the contract and furnish acceptable surety bond and insurance, then, at the discretion of the District, the proceeds of said check shall become the property of the District, the Contractor shall be found in default and the project may be awarded to another contractor. The bid bond or check shall be held subject to payment to the District of the difference in money between the amount of the contract with another party to perform the work, together with the cost to the District of redrafting, redrawing and publishing documents and papers necessary to obtain new bids on said work. The bid bond or check shall, in addition, be held subject to all other actual damages suffered by the District. But if the contract is entered into and said bonds and insurance are furnished, or if the proposal is not accepted, then the said check shall be returned to the undersigned.

RECEIVED
JUL 24 2025
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

1:52

PROPOSAL

For the Construction of **Perris Valley Channel Lateral B, Stage4**, located in the city of Perris, Riverside County, consisting of the following estimated quantities:

SECT. NO.	ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
10	1.	Mobilization	L.S.	---	---	100,000.00
11	2.	Water Control	L.S.	---	---	18,000.00
12	3.	Traffic Control	L.S.	---	---	21,000.00
13	4.	Clearing and Miscellaneous Work	L.S.	---	---	12,600.00
14	5.	Excavation	C.Y.	65,630	22.00	1,443,860.00
14	6.	Pavement Removal	C.Y.	31	65.00	2,015.00
14	7.	Backfill	C.Y.	22,450	33.40	749,830.00
14	8.	Controlled Low Strength Material (CLSM)	C.Y.	2,700	186.00	502,200.00
15	9.	Trench Safety System and Falsework	L.S.	---	490,000.00	490,000.00
16	10.	Class "A" Concrete, Reinforced Concrete Box	C.Y.	6,810	911.00	6,203,910.00
16	11.	Class "A: Concrete, Access Shaft	C.Y.	45	1,967.00	88,515.00
16	12.	Class "A" Concrete, Minor Structures	C.Y.	7	2,300.00	16,100.00
16	13.	Class "A" Concrete, Lateral LS Inlet	L.S.	---	115,800.00	115,800.00
16	14.	Class "A" Concrete, Line C Inlet	L.S.	---	59,600.00	59,600.00
16	15.	Class "B" Concrete, Concreted Rock	C.Y.	133	286.50	38,104.50
16	16.	Class "B" Concrete, Miscellaneous	C.Y.	152	950.00	144,400.00
16	17.	Transition Structure No. 2	C.Y.	42	1,183.00	49,686.00
16	18.	Transition Structure No. 4	C.Y.	235	1,100.00	258,500.00
16	19.	Junction Structure No. 1	EACH	1	13,900.00	13,900.00

PROPOSAL contd.

SECT. NO.	ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
16	20.	Junction Structure No. 5	EACH	4	9,225.00	36,900.00
16	21.	Manhole No. 3	EACH	18	1,950.00	35,100.00
17	22.	18" Reinforced Concrete Pipe, Class IV	L.F.	25	165.00	4,125.00
17	23.	54" Reinforced Concrete Pipe, 1600D	L.F.	51	483.00	24,633.00
19	24.	Aggregate Base, Class 2	C.Y.	1,200	109.00	130,800.00
19	25.	Hot Mix Asphalt (HMA)	TONS	830	150.00	124,500.00
20	26.	6-Foot Chain Link Fence	L.F.	60	710.00	42,600.00
20	27.	Airforce Base Security Fence	L.F.	2,960	234.00	692,640.00
20	28.	Temporary Security Fencing	L.F.	3,830	79.00	302,570.00
20	29.	Temporary ILS (Instrument Landing System) Zone Security Fencing	L.F.	1,200	43.00	51,600.00
20	30.	Cable Railing	L.F.	115	128.00	14,720.00
20	31.	Tubular Steel Fence	L.F.	56	500.00	28,000.00
20	32.	Temporary Fencing	L.F.	100	195.00	19,500.00
20	33.	14-Foot Double Drive Gates	EACH	1	7,700.00	7,700.00
21	34.	Miscellaneous Iron and Steel	LBS.	22,180	750	166,350.00
21	35.	Adjust Manhole to Grade	EACH	8	365.00	2,920.00
21	36.	Sloped Protection Barrier	EACH	2	14,240.00	28,480.00
21	37.	Relocate Sluice Gate	L.S.	1	47,700.00	47,700.00
21	38.	Flow Equalizing Window	EACH	5	1,800.00	9,000.00
21	39.	Temporary Access Road Removal	C.Y.	340	23.00	7,820.00
	40.	Extra Directed Work	L.S.	---	---	1,000,000
26	41.	Rock Slope Protection (RSP) Class V	C.Y.	530	24.00	12,720.00
26	42.	Filter Material	C.Y.	740	60.00	44,400.00

PROPOSAL contd.

SECT. NO.	ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
26	43.	Rock Slope Protection (RSP) Fabric	S.Y.	590	6.00	3,540.00
27	44.	Dust Abatement	L.S.	---	350,700.00	350,700.00
28	45.	Hydroseeding	ACRE	17.5	3,747.00	65,572.50
29	46.	Stormwater and Non-Stormwater Pollution Control and Non-Stormwater Discharge or Dewatering	L.S.	---	63,600.00	63,600.00
31	47.	10.5'H x 9'W Precast Reinforced Concrete Box (PRCB)	L.F.	3,152	1,243.00	3,917,936.00
31	48.	10'H x 14'W Precast Reinforced Concrete Box (PRCB)	L.F.	1,180	1,985.00	2,342,300.00

For the Total Bid Proposal of: **TOTAL COST** (State in Figures) $ 19,906,647.00

PROPOSAL contd.

KEC Engineering
Name of Contractor

Signature of Contractor's authorized representative

Name: Charles Hickman

Title: Vice President

26320 Lester Circle
Address

330641527
S.S.N. or E.I.N.

Corona, CA 92883
City, State, Zip

701834 - A
Contractor's License No. and Classification

(951) 734-3010 / (951) 735-2041
Telephone Number Fax Number

1000390043
Contractor's DIR Registration No.

Charles@kecengineering.com
Email

If bidder is a corporation, corporate seal and attestation shall be provided below.

Dated: 7/23/25

ADDENDUM NO. 1 ACKNOWLEDGED

Signature Charles Hickman

Attested:
Signature

LIST OF SUBCONTRACTORS

Contractor KEC Engineering

Perris Valley Channel Lateral B, Stage 4
Project No. 4-0-00009-04

Give the name and the location of the place of business of each Subcontractor who will perform work or labor or render service to the General Contractor in or about the construction of the work or improvement, or a Subcontractor who specially fabricates and installs a portion of the work or improvement, in an amount in excess of one-half (½) of one percent (1%) of the General Contractor's total bid. List the bid item numbers of the work each subcontractor will do. If a portion of an item is to be subcontracted, show what percentage of that item is to be subcontracted.

Item No. (s) 10, 11, 12, 13, 14, 17, 18, 19, 20

Name of Subcontractor AMBER STEEL

Address/City/Phone RIALTO, CA (909) 874-2213

License No. 268566 Subcontractor's DIR Registration No. 1000000630

Item No. (s) 25

Name of Subcontractor HARDY + HARPER

Address/City/Phone LAKE FOREST, CA (714) 444-1851

License No. 215752 Subcontractor's DIR Registration No. 1000000076

Item No. (s) 26, 27, 28, 29, 30, 31, 32, 33

Name of Subcontractor ALLGEN FENCE

Address/City/Phone RIVERSIDE, CA (951) 685-5871

License No. 122954 Subcontractor's DIR Registration No. 1000001986

Item No. (s)

Name of Subcontractor

Address/City/Phone

License No. Subcontractor's DIR Registration No.

Item No. (s)

Name of Subcontractor

Address/City/Phone

License No. Subcontractor's DIR Registration No.

EXPERIENCE STATEMENT

Bidder submits, as part of his bid, the following statements as to his experience qualifications. Bidder certifies that all statements and information set forth below are true and accurate. Bidder hereby authorizes the District to make inquiry as appropriate regarding his experience.

Bidder has been engaged in the contracting business under this present business name for 30 years.

Bidder's experience in work of a nature similar in type and magnitude to that set forth in these Specifications extends over a period of 50+ years.

Within the last five years, Bidder has satisfactorily completed the following contracts (minimum 3) covering work similar in nature to that set forth in these Specifications for the following owners (name person, firms, or authorities):

Name and Address of Owner/Agency	Representative and Telephone	Type of Work, Year Completed and Dollar Amount
Prologis 3546 Concours St, Suite 100 Ontario, CA 91764	Eric Nutter (949) 428-1400	DRCB; DW, RW, Shoring 20+, Open Cut, AC, TC, Scraper, 2024, $15.4 Mil
SBCFCD 825 E. 3rd St. San Bernardino	Larry White (909) 387-7924	RCB, Transitions, Outlet, Rip Rap 2024, $2.2 Mil
Heritage Fields El Toro, LLC 2000 FivePoint, 4th Floor, Irvine	Jay Leishman (949) 910-1109	RCB, RR Shoring, open cut excavation, demo 2025, $7.5 Mil

STATEMENT OF LICENSURE

Pursuant to California Public Contract Code §3300, the undersigned does certify as follows:

1. That the pocket license/certificate of licensure I have presented to owner as of this date is my own license, being State of California, Contractors License No. 701834; and

2. That said Contractors License is current and valid; and

3. That said Contractors License is of a classification appropriate to the work to be undertaken for owner, a Class A license.

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

DATED: 7/23/25

Signature

Charles Hickman - Vice President

Title

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 this the _____ day of _____, 20____, before me

_____

the undersigned Notary Public, personally appeared

_____

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 that he/she 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.

_____

Notary's 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 July 23, 2025 before me, Nathan A. Elfring, Notary Public
(insert name and title of the officer)

personally appeared Charles Hickman,
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.

NATHAN A. ELFRING
COMM. #2408203
NOTARY PUBLIC - CALIFORNIA
RIVERSIDE COUNTY
My Comm. Expires June 16, 2026

Signature _____ **(Seal)**

NON-COLLUSION DECLARATION

(Public Contract Code Section 7106)

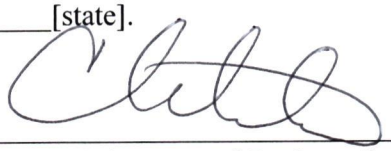
The undersigned declares:

I am the Vice President of KEC Engineering, 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 7/23/25 [date], at Corona [city], CA [state].



[Signature of Declarant]

Charles Hickman

[Printed Name of Person Signing]

KEC Engineering

[Name of Bidder]

Vice President

[Office or Title]

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 July 23, 2025 before me, Nathan A. Elfring, Notary Public
(insert name and title of the officer)

personally appeared Charles Hickman,
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.

NATHAN A. ELFRING
COMM. #2408203
NOTARY PUBLIC - CALIFORNIA
RIVERSIDE COUNTY
My Comm. Expires June 16, 2026

Signature _____ (Seal)

IRAN CONTRACTING ACT CERTIFICATION

In accordance with Public Contract Code Section 2204(a), prior to bidding on, submitting a proposal or executing a contract or renewal for a District contract for goods or services of $1,000,000 or more, a Contractor must either:

a) Certify it 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 Section 2203(b) and 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
b) Demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d).

To comply with this requirement, please insert your Contractor or financial institution name and Federal ID Number (if available) and complete one of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of $250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code Section 2205.)

Option #1 – Certification

I, the official named below, certify I am duly authorized to execute this certification on behalf of the Contractor/financial institution identified below, and the Contractor/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars ($20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor 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.

Contractor Name/Financial Institution (Printed) KEC Engineering	*Federal ID Number (or n/a)* 330641527
By (Authorized Signature)	
Printed Name and Title of Person Signing Charles Hickman	
Date Executed 7/23/25	*Executed in* Corona, CA

Option #2 – Exemption

Pursuant to Public Contract Code Sections 2203(c) and (d), a public entity may permit a Contractor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Contractor Name/Financial Institution (Printed)	*Federal ID Number (or n/a)*
By (Authorized Signature)	
Printed Name and Title of Person Signing	
Date Executed	*Executed in*

COMPLIANCE WITH ECONOMIC SANCTIONS IN RESPONSE TO RUSSIA'S ACTIONS IN UKRAINE

Prior to bidding on, submitting a proposal, or executing a contract, a Contractor must certify: 1) it is not a target of economic sanctions and 2) compliance with economic sanctions imposed by the United States government in response to Russia's actions in Ukraine, as well as any requirements related to the Russian sanctions imposed by the California Governor's Executive Order N-6-22 issued on March 4, 2022, and under state law, if any.

To comply with this requirement, please insert the Contractor name and Federal ID Number (if available), complete the information described below, and execute by an authorized representative of the Contractor.

CERTIFICATION

I, the authorized representative for the Contractor named below, certify I am duly authorized to execute this certification on behalf of the Contractor below, and the Contractor identified below has conducted a good faith review of existing contracts. I attest that the Contractor is not a target of economic sanctions, and the Contractor is in compliance with the economic sanctions imposed by the United States government in response to Russia's actions in Ukraine, as well as any requirements related to the Russian sanctions imposed by the California Governor's Executive Order N-6-22 issued on March 4, 2022, and under state law, if any.

Contractor Name/Financial Institution (Printed) KEC Engineering		*Federal ID Number (or n/a)* 330641527
By (Authorized Signature)		
Printed Name and Title of Person Signing Charles Hickman		
Date Executed 7/23/25	*Executed in* Corona, CA	

BID BOND

Recitals

1. The undersigned KEC Engineering (Contractor), is herewith submitting to the Riverside County Flood Control and Water Conservation District (District), a Bid Proposal ("Proposal") dated July 24 20 25, for the construction of public work for **Perris Valley Channel Lateral B, Stage 4** in accordance with a Notice to Contractors dated **June 10, 2025**

2. Contractor is obligated as a condition of said Bid to submit security in the amount of at least ten percent (10%) of the Bid Amount, which security may be in the form of a Bid Bond issued by an admitted surety insurer pursuant to Code of Civil Procedure Section 995.120 ("Admitted Surety").

3. Liberty Mutual Insurance Company a Massachusetts corporation, hereafter called (Surety), is the surety on this Bid Bond.

Agreement

We, Contractor as principal and Surety as surety, jointly and severally agree and state as follows:

1. The amount of the obligation of this Bond is ten percent (10%) of the amount of the Contractor's Proposal and inures, to the benefit of District.

2. This Bond is exonerated by (1) District rejecting said Proposal or, in the alternate, (2) if said Proposal is accepted, Contractor executes the Construction Agreement and furnishes the Performance Bond, Payment Bond and Insurance as agreed to in its Proposal, otherwise it remains in full force and effect for the recovery of loss, damage and expense of District resulting from failure of Contractor to act as agreed to in its Proposal. Some types of possible loss, damage and expense are specified in the Contractor's Proposal.

3. Surety for value received, stipulates and agrees that its obligations hereunder that no change, any extension of time within which District may accept the Proposal, alteration or addition to the terms of the Contract or the Bidding Documents, or to the work to be performed thereunder, nor any withdrawal of the Proposal in a manner not permitted by the requirements of the Bidding requirements shall in any way impair or affect Surety's obligation under this Bond, and Surety does hereby waive notice of any such changes, extension of time, alterations or additions.

4. This Bond is binding on our heirs, executors, administrators, successors and assigns.

5. In the event any legal proceeding or arbitration is brought upon this Bond by District and judgment or award is entered in favor of District as the prevailing party, Surety shall pay all costs and attorney's fees incurred by the District.

BID BOND

IN WITNESS WHEREOF the undersigned parties have executed this instrument under their several seals this day of July 15, 2025, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Dated: July 15, 2025

KEC Engineering
(Proper name of Contractor)

(Corporate Seal of Contractor, if Corporation)

By: _____
Signature of Contractor's authorized representative

CHARLES HICKMAN, V.P.
Print or type authorized representative's Name and Title

26320 Lester Circle
Print or type Contractor's Address

Corona, CA 92883

(Corporate Seal of Surety)

Seal No. 5747

Surety Liberty Mutual Insurance Company

By: _____
Attorney-in-Fact, Paul A. Bland

(Attach Attorney-in-Fact Certificate and Required Acknowledgments)

GMGS Risk Management & Insurance Services
Name and Address of California Agent of Surety

6201 Oak Canyon, Suite 100

Irvine, CA 92618

(949) 559-6700
Telephone Number of California Agent of Surety

NOTE: Notary acknowledgment of signatures of Contractor and Surety, and Surety's Power of Attorney, must be included or attached.

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 July 23, 2025 before me, Nathan A. Elfring, Notary Public
(insert name and title of the officer)

personally appeared Charles Hickman,
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.

NATHAN A. ELFRING
COMM. #2408203
NOTARY PUBLIC - CALIFORNIA
RIVERSIDE COUNTY
My Comm. Expires June 16, 2026

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 Orange)

On July 15, 2025 before me, Candy A. Dakin, Notary Public
(insert name and title of the officer)

personally appeared Paul A. Bland,
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.

NRO1 CANDY A. DAKIN NRO1
COMM. #2364904
Notary Public - California
Orange County
My Comm. Expires Aug. 3, 2025

Signature Candy A. Dakin (Seal)

Liberty Mutual SURETY

POWER OF ATTORNEY

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8213242-024087**

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Denise Bennett; Paul A. Bland; Candy A. Dakin; Edward W. Griffith II; Steven C. Mosier; Cynthia S. Wozney

all of the city of Irvine state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 28th day of February, 2025.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: _____
Nathan J. Zangerle, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 28th day of February, 2025 before me personally appeared Nathan J. Zangerle, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2029
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.
Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 15TH day of JULY, 2025.

By: _____
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

Liberty Mutual Surety
1001 4th Ave Ste 3800
Seattle, WA 98154
Office: 206-473-3533

As part of its business continuity efforts during the pendency of the COVID-19 pandemic, Liberty Mutual Insurance Company ("LMIC") on behalf of itself and the companies listed below has authorized its Attorneys-in-Fact to affix its corporate seal for surety obligations in a digital format in lieu of its traditional raised seal to any bond issued on its behalf by any such Attorney-in-Fact:

Liberty Mutual Insurance Company
Liberty Mutual Fire Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company
Safeco Insurance Company of America
American States Insurance Company

Please note that the digital seal utilized by our authorized agents will also include their agency specific reference number.

LMIC agrees and affirms on behalf of itself and the other companies listed herein, that the digital corporate seal referenced above has the same binding effect when affixed to a bond or a Power of Attorney document as if it were a raised corporate seal.

Effective this 23rd day of March, 2020.

By: _____
Renee C. Llewellyn, Assistant Secretary

CONSTRUCTION AGREEMENT

THIS CONSTRUCTION AGREEMENT ("Agreement") is made as of October 7, 2025 and is by and between RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, a body politic, (District) and KEC Engineering (Contractor).

IT IS AGREED BY THE PARTIES AS FOLLOWS:

1. The Work. Contractor shall furnish all tools, equipment, apparatus, facilities, labor, supervision, services, transportation, materials and other required items and materials and do all things necessary to perform, accomplish and complete the work for **Project No. 4-0-00009-04, Perris Valley Channel Lateral B, Stage 4** of District, in exact conformity with the Contract Documents (identified below) for the Project, subject to such inspection as District deems appropriate and pursuant to orders and instructions, drawings, etc., issued by District in accordance with the Contract Documents.

2. Contract Documents. The Contract Documents for **Project No. 4-0-00009-04, Perris Valley Channel Lateral B, Stage 4** of District are:

(a) Notice Inviting Bids to Contractors;
(b) Instructions To Bidders;
(c) Contractor's Proposal, including List of Subcontractors, Statement of Licensure, Non-Collusion Declaration, Iran Contracting Act Certification;
(d) Bid Bond
(e) Construction Agreement, including Exhibit A, Workers' Compensation Contractor Certificate, Declaration of Sufficiency of Funds, and Evidence of Insurance;
(f) Performance Bond;
(g) Payment Bond;
(h) General Provisions;
(i) Special Provisions;
(j) Detailed Specifications;
(k) Plans;
(l) Appendices and any other documents included in or incorporated into the Contract Documents;
(m) Orders, Instructions, Drawings and Plans issued by District during the course of the work in accordance with the provisions of the Contract Documents; and
(n) Addenda No. 1.

Each of the above-mentioned documents presently in existence are by this reference incorporated herein and each of said documents not now in existence are incorporated herein as of the time of their issuance.

The Bid Bond is exonerated upon execution and delivery to District in a form satisfactory to District, of the following, duly executed by Contractor and also by its Surety as to the Bonds, Construction Agreement, Certificate of Insurance, Performance Bond, and Payment Bond.

3. Bonds - Insurance. Contractor must deliver to District and District must approve, a fully executed Performance Bond in the amount of 100% of the estimated contract price, a fully executed Payment Bond in the amount of 100% of the estimated contract price, and fully executed certificates of insurance evidencing the existence of the insurance required by Subsection 8.02 of the General Provisions. The Payment Bond and Performance Bond must be on forms furnished by District.

Should any surety on the Performance Bond or Payment Bond be deemed unsatisfactory by the Board of Supervisors of District, Contractor shall upon notice promptly substitute new Bonds in form satisfactory to District.

4. Contract Price - Payment. The District agrees to pay and the Contractor agrees to accept in full consideration for the performance of the Agreement, the sum of the total amount provided in Exhibit A, attached hereto, marked Exhibit A and by this reference made a part hereof, is provision for the Contract Price and its payment, subject to additions and deductions as provided in the Specifications and Contract Documents.

5. Contract Time for Completion. The Work shall be commenced on a date to be specified in a written "Notice To Proceed" to be issued by the District and shall be completed within the duration specified in the Specifications and Contract Documents. It is expressly agreed that except for extensions of time duly granted in the manner and for the reasons specified in the General Provisions, time shall be of the essence.

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

By Karen S. Spiegel
Chair of its Board of Supervisors
KAREN SPIEGEL

ATTEST:

KIMBERLY RECTOR
Clerk of the Board

By _____
Deputy

FORM APPROVED COUNTY COUNSEL
BY _____ 9/16/25
KRISTINE BELL-VALDEZ DATE

(Seal)

KEC Engineering
Contractor

By Charles Hickman

Title Vice President

(If corporation affix corporate seal)

OCT 0 7 2025 14.1

EXHIBIT A

(To Agreement for Riverside County Flood Control and Water Conservation District's Project No. **Project No. 4-0-00009-04, Perris Valley Channel Lateral B, Stage 4,** located in the city of Perris, Riverside County, California.)

Contract Price - Payment - District shall pay Contractor the following sums for the items set forth below in accordance with Contractor's Proposal as accepted by District, which sums shall be paid as provided in the General Provisions and subject to additions and deductions as provided in the Contract Documents.

It is understood that the quantities listed, except for those shown as "Final" or "Lump Sum" are but estimates only and final payment will be based on actual work performed, subject to such adjustments and alterations as elsewhere provided.

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
1.	Mobilization	L.S.	- - -	- - -	$100,000.00
2.	Water Control	L.S.	- - -	- - -	18,000.00
3.	Traffic Control	L.S.	- - -	- - -	21,000.00
4.	Clearing and Miscellaneous Work	L.S.	- - -	- - -	12,800.00
5.	Excavation	C.Y.	65,630	$22.00	1,443,860.00
6.	Pavement Removal	C.Y.	31	$65.00	2,015.00
7.	Backfill	C.Y.	22,450	$33.40	749,830.00
8.	Controlled Low Strength Material (CLSM)	C.Y.	2,700	$186.00	502,200.00
9.	Trench Safety System and Falsework	L.S.	- - -	- - -	490,000.00
10.	Class "A" Concrete, Reinforced Concrete Box	C.Y.	6,810	$911.00	6,203,910.00
11.	Class "A: Concrete, Access Shaft	C.Y.	45	$1,967.00	88,515.00
12.	Class "A" Concrete, Minor Structures	C.Y.	7	$2,300.00	16,100.00
13.	Class "A" Concrete, Lateral LS Inlet	L.S.	- - -	- - -	115,800.00
14.	Class "A" Concrete, Line C Inlet	L.S.	- - -	$59,600.00	59,600.00
15.	Class "B" Concrete, Concreted Rock	C.Y.	133	$286.50	38,104.50

EXHIBIT A contd.

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
16.	Class "B" Concrete, Miscellaneous	C.Y.	152	$950.00	144,400.00
17.	Transition Structure No. 2	C.Y.	42	$1,183.00	49,686.00
18.	Transition Structure No. 4	C.Y.	235	$1,100.00	258,500.00
19.	Junction Structure No. 1	EACH	1	$13,900.00	13,900.00
20.	Junction Structure No. 5	EACH	4	$9,225.00	36,900.00
21.	Manhole No. 3	EACH	18	$1,950.00	35,100.00
22.	18" Reinforced Concrete Pipe, Class IV	L.F.	25	$165.00	4,125.00
23.	54" Reinforced Concrete Pipe, 1600D	L.F.	51	$483.00	24,633.00
24.	Aggregate Base, Class 2	C.Y.	1,200	$109.00	130,800.00
25.	Hot Mix Asphalt (HMA)	TONS	830	$150.00	124,500.00
26.	6-Foot Chain Link Fence	L.F.	60	$710.00	42,600.00
27.	Airforce Base Security Fence	L.F.	2,960	$234.00	692,640.00
28.	Temporary Security Fencing	L.F.	3,830	$79.00	302,570.00
29.	Temporary ILS (Instrument Landing System) Zone Security Fencing	L.F.	1,200	$43.00	51,600.00
30.	Cable Railing	L.F.	115	$128.00	14,720.00
31.	Tubular Steel Fence	L.F.	56	$500.00	28,000.00
32.	Temporary Fencing	L.F.	100	$195.00	19,500.00
33.	14-Foot Double Drive Gates	EACH	1	$7,700.00	7,700.00
34.	Miscellaneous Iron and Steel	LBS.	22,180	$7.50	166,350.00
35.	Adjust Manhole to Grade	EACH	8	$365.00	2,920.00
36.	Sloped Protection Barrier	EACH	2	$14,240.00	28,480.00
37.	Relocate Sluice Gate	L.S.	1	$47,700.00	47,700.00
38.	Flow Equalizing Window	EACH	5	$1,800.00	9,000.00

EXHIBIT A contd.

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
39.	Temporary Access Road Removal	C.Y.	340	$23.00	7,820.00
40.	Extra Directed Work	L.S.	- - -	- - -	1,000,000
41.	Rock Slope Protection (RSP) Class V	C.Y.	530	$24.00	12,720.00
42.	Filter Material	C.Y.	740	$60.00	44,400.00
43.	Rock Slope Protection (RSP) Fabric	S.Y.	590	$6.00	3,540.00
44.	Dust Abatement	L.S.	- - -	$350,700.00	350,700.00
45.	Hydroseeding	ACRE	17.5	$3,747.00	65,572.50
46.	Stormwater and Non-Stormwater Pollution Control and Non-Stormwater Discharge or Dewatering	L.S.	- - -	$63,600.00	63,600.00
47.	10.5'H x 9'W Precast Reinforced Concrete Box (PRCB)	L.F.	3,152	$1,243.00	3,917,936.00
48.	10'H x 14'W Precast Reinforced Concrete Box (PRCB)	L.F.	1,180	$1,985.00	2,342,300.00
TOTAL					19,906,647.00

Issued in Triplicate

Bond Number: 024281310
Premium: $118,755.00
Premium is subject to adjustment based on final contact price

PERFORMANCE BOND

(Public Work – Public Contract Code Section 21091)

WHEREAS, the Riverside County Flood Control and Water Conservation District ("District") on October 7, 2025, has awarded Construction Contract Number: **4-0-00009-04** ("Contract") to the undersigned KEC Engineering, as Principal ("Principal") to perform the work ("Work") for the following project; **Perris Valley Channel Lateral B, Stage 4**, which Contract is by this reference hereby incorporated herein and made a part hereof;

WHEREAS, said Principal is required by the Contract and/or by California Public Contract Code, Section 21091 to furnish a performance bond for the faithful performance of the Contract;

NOW THEREFORE, we, the Principal and Liberty Mutual Insurance Company ("Surety"), an admitted surety insurer pursuant to Code of Civil Procedure, Section 995.120, are held and firmly bound unto District in the penal sum of Nineteen Million Nine Hundred Six Thousand Six Hundred Forty-Seven and No/100--- Dollars ($ 19,906,647.00---), this amount being not less than one hundred percent (100%) of the total sum payable by District under the Contract at the time the Contract is awarded by District to the Principal, lawful money of the United States of America, for the payment of which sum well and truly to be made, we, Principal and Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents, to:

1. Perform all the work required to complete the Project; and

2. Pay to the District all damages the District incurs as a result of the Contractor's failure to perform all the Work required to complete the Project.

THE CONDITION OF THIS OBLIGATION IS SUCH that if Principal, its heirs, executors, administrators, successors or assigns approved by District, shall in all things stand to and abide by and well and truly keep and perform all the undertakings, terms, covenants, conditions and agreements in the Contract, including, without limitation, all obligations during the original term and any extensions thereof as may be granted by District, with or without notice to Surety thereof (including, without limitation, the obligation for Principal to pay liquidated damages), all obligations during the period of any warranties and guarantees required under the Contract and all other obligations otherwise arising under the terms of the Contract (such as, but not limited to, obligations of indemnification), all within the time and in the manner therein designated in all respects according to their true intent and meaning, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect.

As a condition precedent to the satisfactory completion of the Contract, the above obligation shall hold good for a period equal to the warranty and/or guarantee period of the Contract, during which time Surety's obligation shall continue if Contractor shall fail to make full, complete, and satisfactory repair and replacements and totally protect the District from loss or damage resulting from or caused by defective materials or faulty workmanship. The obligations of Surety hereunder shall continue so long as any obligation of Contractor remains. Nothing herein shall limit the District's rights or the Contractor or Surety's obligations under the Contract, law or equity, including, but not limited to, California Code of Civil Procedure section 337.15.

Whenever Principal shall be, and is declared by District to be, in default under the Contract, the Surety shall promptly either remedy the default, or, if the Contract is terminated by District or the Principal's performance of the Work is discontinued, Surety shall promptly complete the Contract through its agents or independent contractors, subject to acceptance of such agents or independent contractors by District as hereinafter set forth, in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract (including, without limitation, all obligations with respect to payment of liquidated damages) less the "Balance of the Contract Price" (as hereinafter defined); subject to the penal amount of this bond as set forth above. The term "Balance of the Contract Price", as used in this paragraph, shall mean the total amount payable to Principal by District under the Contract and any modifications thereto, less the amount previously paid by District to the Principal and less amounts that District is authorized to withhold under the terms of the Contract.

If District determines that completion of the Contract by Surety or its agents or independent contractors must be performed by a lowest responsible bidder selected pursuant to a competitive bidding process, then Surety shall comply with such processes in accordance with the requirements of District and applicable laws. Unless otherwise approved by District, in the exercise of its sole and absolute discretion, Surety shall not utilize Principal in completing performance of the Work.

No right of action shall accrue on this bond to or for the use of any person or entity other than District or its successors or assigns.

In the event any legal proceeding or arbitration is brought upon this bond by District and judgment or award is entered in favor of District as the prevailing party, Surety shall pay all costs and attorney's fees incurred by the District.

Correspondence or claims relating to this bond shall be sent to Surety at the address set forth below.

Surety, for value received, agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to the work to be performed thereunder, shall in any way impair or affect Surety's obligation under this bond, and Surety does hereby waive notice of any such changes, extensions of time, alterations or additions.

Surety's obligations hereunder are independent of the obligations of any other surety for the performance of the Contract, and suit may be brought against Surety and such other sureties, joint and severally, or against any one or more of them or against less than all of them, without impairing District's rights against the others.

PERFORMANCE BOND

KEC Engineering
(Proper name of Principal)

(Corporate Seal of Principal, if Corporation)

By: _____
Signature of Principal's authorized representative

CHARLES HICKMAN, V.P.
Print or type authorized representative's Name and Title

26320 Lester Circle
Print or type Principal's Address

Corona, CA 92883

Dated: August 20, 2025

(Corporate Seal of Surety)

Seal No. 5747

Surety Liberty Mutual Insurance Company

By: _____
Attorney-in-Fact , Paul A. Bland

(Attach Attorney-in-Fact Certificate and Required Acknowledgments)

GMGS Risk Management & Insurance Services
Name and Address of California Agent of Surety

6201 Oak Canyon, Suite 100

Irvine, CA 92618

(949) 559-6700
Telephone Number of California Agent of Surety

NOTE: Notary acknowledgment of signatures of Principal and Surety, and Surety's Power of Attorney, must be included or attached.

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 August 22, 2025 before me, Nathan A. Elfring, Notary Public
(insert name and title of the officer)

personally appeared Charles Hickman,
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.

NATHAN A. ELFRING
COMM. #2408203
NOTARY PUBLIC - CALIFORNIA
RIVERSIDE COUNTY
My Comm. Expires June 16, 2026

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 Orange)

On August 20, 2025 before me, Candy A. Dakin, Notary Public
(insert name and title of the officer)

personally appeared Paul A. Bland,
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.

CANDY A. DAKIN
COMM. #2526594
Notary Public - California
Orange County
My Comm. Expires Aug. 3, 2029

Signature _____ **(Seal)**

POWER OF ATTORNEY

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8213242-024087**

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Denise Bennett; Paul A. Bland; Candy A. Dakin; Edward W. Griffith II; Steven C. Mosier; Cynthia S. Wozney

all of the city of Irvine state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 28th day of February, 2025.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: _____
Nathan J. Zangerle, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 28th day of February, 2025 before me personally appeared Nathan J. Zangerle, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2029
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.
Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 20TH day of AUGUST, 2025.

By: _____
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

Issued in Triplicate

Bond Number: 024281310
Premium included in the
Performance Bond

PAYMENT BOND

(Public Work - Civil Code Sections 9550 et seq.)

WHEREAS, the Riverside County Flood Control and Water Conservation District ("District") by action of the Board of Supervisors on October 7, 2025, has awarded Construction Contract Number: 4-0-00009-04 ("Contract") to the undersigned KEC Engineering, as Principal ("Principal") to perform the work ("Work") for the following project; Perris Valley Channel Lateral B, Stage 4.

WHEREAS, said Principal is required by the Contract and/or by the California Civil Code Section 9550 et seq. to furnish a payment bond in connection with the Contract;

NOW THEREFORE, we, the Principal and Liberty Mutual Insurance Company ("Surety"), an admitted surety insurer pursuant to Code of Civil Procedure, Section 995.120, are held and firmly bound unto District in the penal sum of Nineteen Million Nine Hundred Six Thousand Six Hundred Forty-Seven and No/100 Dollars ($19,906,647.00---), this amount being not less than one hundred percent (100%) of the total sum payable by District under the Contract at the time the Contract is awarded by District to the Principal, lawful money of the United States of America, for the payment of which sum well and truly to be made, we, Principal and Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if Principal, its heirs, executors, administrators, successors, or assigns approved by District, or its subcontractors, of any contracting tier, shall fail to pay any amounts or any person or persons named and described in California Civil Code, Section 9554, then Surety will pay for the same, in or to an amount not exceeding the penal amount hereinabove set forth, and also will pay to the prevailing party if suit is brought upon this bond, reasonable attorney's fees as provided in California Civil Code, Section 9564.

Surety, for value received, agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to the Work to be performed thereunder, nor any rescission or attempted rescission of the Contract or this bond, nor any conditions precedent or subsequent in the bond or Contract attempting to limit the right of recovery of any claimant otherwise entitled to recover under the Contract or this bond shall in any way impair or affect Surety's obligation under this bond, and Surety does hereby waive notice of any such changes, extensions of time, alterations or additions.

Surety is not released from liability to those for whose benefit this bond has been given, by reason of any breach of the Contract by District or Principal.

It is hereby expressly stipulated and agreed that this bond shall inure to the benefit of any and all persons, companies, and corporations entitled to file claims under Section 9100 of the Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond.

PAYMENT BOND

Surety's obligations hereunder are independent of the obligations of any other surety for the performance of the Contract, and suit may be brought against Surety and such other sureties, joint and severally, or against any one or more of them or against less than all of them, without impairing District's rights against the others.

KEC Engineering
(Proper name of Principal)

(Corporate Seal of Principal, if Corporation)

By: _____
Signature of Principal's authorized representative

CHARLES HICKMAN, V.P.
Print or type authorized representative's Name and Title

26320 Lester Circle
Print or type Principal's Address

Corona, CA 92883

Dated: August 20, 2025

(Corporate Seal of Surety)

Seal No. 5747

Surety Liberty Mutual Insurance Company

By: _____
Attorney-in-Fact, Paul A. Bland

(Attach Attorney-in-Fact Certificate and Required Acknowledgments)

GMGS Risk Management & Insurance Services
Name and Address of California Agent of Surety

6201 Oak Canyon, Suite 100

Irvine, CA 92618

(949) 559-6700
Telephone Number of California Agent of Surety

NOTE: Notary acknowledgment of signatures of Principal and Surety, and Surety's Power of Attorney, must be included or attached.

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 August 22, 2025 before me, Nathan A. Elfring, Notary Public
(insert name and title of the officer)

personally appeared Charles Hickman,
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.

NATHAN A. ELFRING
COMM. #2408203
NOTARY PUBLIC - CALIFORNIA
RIVERSIDE COUNTY
My Comm. Expires June 16, 2026

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 Orange)

On August 20, 2025 before me, Candy A. Dakin, Notary Public
(insert name and title of the officer)

personally appeared Paul A. Bland,
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.

CANDY A. DAKIN
COMM. #2526594
Notary Public - California
Orange County
My Comm. Expires Aug. 3, 2029

Signature _____ (Seal)

POWER OF ATTORNEY

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8213242-024087**

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Denise Bennett; Paul A. Bland; Candy A. Dakin; Edward W. Griffith II; Steven C. Mosier; Cynthia S. Wozney

all of the city of Irvine state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 28th day of February, 2025.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: _____
Nathan J. Zangerle, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 28th day of February, 2025 before me personally appeared Nathan J. Zangerle, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2029
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.
Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 20TH day of AUGUST, 2025.

By: _____
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

Liberty Mutual Surety
1001 4th Ave Ste 3800
Seattle, WA 98154
Office: 206-473-3533

As part of its business continuity efforts during the pendency of the COVID-19 pandemic, Liberty Mutual Insurance Company ("LMIC") on behalf of itself and the companies listed below has authorized its Attorneys-in-Fact to affix its corporate seal for surety obligations in a digital format in lieu of its traditional raised seal to any bond issued on its behalf by any such Attorney-in-Fact:

Liberty Mutual Insurance Company
Liberty Mutual Fire Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company
Safeco Insurance Company of America
American States Insurance Company

Please note that the digital seal utilized by our authorized agents will also include their agency specific reference number.

LMIC agrees and affirms on behalf of itself and the other companies listed herein, that the digital corporate seal referenced above has the same binding effect when affixed to a bond or a Power of Attorney document as if it were a raised corporate seal.

Effective this 23rd day of March, 2020.

By: _____
Renee C. Llewellyn, Assistant Secretary

WORKERS' COMPENSATION CONTRACTOR CERTIFICATE

(Labor Code Sections 1860, 1861 & 3700)

In accordance with the provisions of Section 3700 of the Labor Code, every Contractor shall secure compensation in one or more of the following ways:

(a) By being insured against liability to pay compensation by one or more insurers duly authorized to write compensation insurance in this state.

(b) By securing from the Director of Industrial Relations a certificate of consent to self-insure either as an individual employer, or as one employer in a group of employers, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his or her employees.

(c) For any county, city, city and county, municipal corporation, public district, public agency, or any political subdivision of the state, including each member of a pooling arrangement under a joint exercise of powers agreement (but not the state itself), by securing from the Director of Industrial Relations a certificate of consent to self-insure against workers' compensation claims, which certificate may be given upon furnishing proof satisfactory to the director of ability to administer workers' compensation claims properly, and to pay workers' compensation claims that may become due to its employees. On or before March 31, 1979, a political subdivision of the state which, on December 31, 1978, was uninsured for its liability to pay compensation, shall file a properly completed and executed application for a certificate of consent to self-insure against workers' compensation claims. The certificate shall be issued and be subject to the provisions of Section 3702.

Labor Code Section 1861 requires each Contractor to whom a public works Contract is awarded shall sign and file with the District the following certification prior to performing the Work of the public works construction Contract:

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of this Contract.

By signing this certification, the Contractor understands the requirements of and agrees to comply with the aforementioned requirements.

Name of Contractor: KEC Engineering

By: Charles Hickman

Title: Vice President

CERTIFICATE OF REPORTED COMPLIANCE

For all fleet selected for the contract including listed subcontractors.



California Environmental Protection Agency

Air Resources Board

(1) **March 1, 2022**

CERTIFICATE OF REPORTED COMPLIANCE

IN-USE OFF-ROAD DIESEL-FUELED FLEETS

REGULATION is issued to

(2) **TESTING**

This certificate indicates that the fleet listed above has reported off-road diesel vehicles to the California Air Resources Board and has certified they are in compliance with title 13 CCR, section 2449. All applicable vehicles owned by the individual, company, or agency must be reported and located, as specified in Section 2449, with all possible completeness, else this certificate is null and void. **Certificate expires 2/28/2023**

(3)

Off-road Diesel Fleet Identification

(4) 155796

(5) To verify the authenticity of this certificate, enter the number at http://www.arb.ca.gov/doors/compliance_cert1.html

1. Current calendar year's annual reporting deadline.
2. Company name.
3. Certificate expiration date. Certificates are available for download starting March 1 of each year and are valid through February of the following year. Expiration dates will be automatically updated once annual reporting is complete. The new certificate will be available for download starting March 1.
4. Off-road Diesel Fleet Identification (i.e., DOORS ID number).
5. To verify the authenticity of a certificate, enter the DOORS ID number at: http://www.arb.ca.gov/doors/compliance_cert1.html .

California Environmental Protection Agency

Air Resources Board

January 1, 2025

CERTIFICATE OF REPORTED COMPLIANCE
OFF-ROAD DIESEL VEHICLE REGULATION

is issued to

KEC ENGINEERING

This certificate indicates that the fleet listed above has reported off-road diesel vehicles to the California Air Resources Board and has certified they are in compliance with title 13 CCR, section 2449, All applicable vehicles owned by the individual, company, or agency must be reported and labeled, as specified in Section 2449, with all possible completeness, else this certificate is null and void. **Certificate expires 2/28/2026**

Jack Kitowski
Chief, Mobile Source Control Division
California Air Resources Board

Off-road Diesel Fleet Identification

2038

To verify the authenticity of this certificate, enter this number at http://www.arb.ca.gov/doors/compliance_cert1.html

California Environmental Protection Agency

Air Resources Board

January 1, 2025

CERTIFICATE OF REPORTED COMPLIANCE
OFF-ROAD DIESEL VEHICLE REGULATION

is issued to

HARDY & HARPER, INC.

This certificate indicates that the fleet listed above has reported off-road diesel vehicles to the California Air Resources Board and has certified they are in compliance with title 13 CCR, section 2449. All applicable vehicles owned by the individual, company, or agency must be reported and labeled, as specified in Section 2449, with all possible completeness, else this certificate is null and void. **Certificate expires 2/28/2026**

Jack Kitowski
Chief, Mobile Source Control Division
California Air Resources Board

Off-road Diesel Fleet Identification

4333

To verify the authenticity of this certificate, enter this number at
http://www.arb.ca.gov/doors/compliance_cert1.html

CALIFORNIA
AIR RESOURCES BOARD

Certificate of Reported Compliance With:

Truck and Bus Regulation

Issued to: H. Wayne Lewis, Inc. dba Amber Steel
Co/ Amber Steel Co

This certificate confirms that the fleet owner has attested under penalty of perjury that the statements and information they provided to the California Air Resources Board (CARB) are true, accurate, and complete regarding all relevant vehicles in the fleet required to show compliance. CARB hereby finds that the fleet listed has reported compliance with:

Title 13 CCR 2025 (Truck and Bus Regulation)

If CARB subsequently finds that the statements and information that have been provided are not true, accurate, and complete, this certificate shall be effectively revoked and the fleet subject to noncompliance penalties.

This certificate is valid until **December 31, 2025**

Jack Kitowski

Jack Kitowski
Division Chief, Mobile Source Control
Division California Air Resources Board

Printed on 2025-01-13

4 Vehicles

TRUCRS Fleet Identification
18557

To verify the authenticity of this certificate, visit
www.arb.ca.gov/msprog/onrdiesel/tblookup.php

California Environmental Protection Agency

Air Resources Board

January 1, 2025

CERTIFICATE OF REPORTED COMPLIANCE
OFF-ROAD DIESEL VEHICLE REGULATION

is issued to

ALCORN FENCE COMPANY

This certificate indicates that the fleet listed above has reported off-road diesel vehicles to the California Air Resources Board and has certified they are in compliance with title 13 CCR, section 2449. All applicable vehicles owned by the individual, company, or agency must be reported and labeled, as specified in Section 2449, with all possible completeness, else this certificate is null and void. **Certificate expires 2/28/2026**

Jack Kitowski
Chief, Mobile Source Control Division
California Air Resources Board

Off-road Diesel Fleet Identification

4309

To verify the authenticity of this certificate, enter this number at
http://www.arb.ca.gov/doors/compliance_cert1.html

DECLARATION OF SUFFICIENCY OF FUNDS

(California Labor Code Section 2810)

I, the undersigned, an authorized representative of KEC Engineering ("Bidder") with authority to make the statements contained in this Declaration on behalf of Bidder, hereby declare the following:

1. The Bidder's employer identification number for state tax purposes is: CA State Employer ID 40981144, Federal ID 33-0641527.

2. The Bidder's workers' compensation insurance policy number is: UB-7N792894-25-26-G,

and the name, address, and telephone number of the insurance carrier providing said insurance is: Travelers Property Casualty Company of America
One Tower Square
Hartford, CT 06183
949-559-3374.

3. The following information is provided concerning any and all vehicles that are owned by the Bidder and that will be used for transportation in connection with any service provided for the performance of the Work that is the subject of the Bidder's Bid [Insert information requested. Attach additional sheets, if needed.]:

Vehicle	*Vehicle ID #*	*Vehicle. Liability Insurance Policy Number (of policy covering vehicle)*	*Name, Address and Telephone Number of Vehicle Liability Insurance Carrier (issuing policy covering vehicle)*
See attached list of Vehicles		1N90054-810	Travelers Indemnity Co of CT One Tower Square Hartford, CT 06183 949-559-3374

4. The following is the address of any real property that will be used to house workers in connection with the performance of the Work that is the subject of the Bidder's Bid [If no such housing will be provided, enter "none"]: None

No.	Vehicles	Type	VIN / SN
0132	06 GMC Sierra 2500 Crew Cab P/U	Pickup	1GDHC23226F113260
0139	07 GMC Yukon XL Denali	Pickup	1GKFK66897J328434
0144	03 Chevrolet Pickup	Pickup	1GBHC23U13F136731
0145	07 Chevrolet Pickup	Pickup	1GCHC29D17E153737
0146	07 Chevrolet Pickup	Pickup	1GCHC23DX7F133876
0147	07 Chevrolet Pickup	Pickup	1GCHC23D07F133868
0149	13 Chevrolet Pickup	Pickup	1GCRCSEA1DZ269881
0150	14 GMC Sierra 1500	Pickup	1GTR1UEH2EZ298757
0151	14 Chevrolet Silverado 3500	Pickup	1GB4CZC82EF192898
0152	14 Chevrolet Silverado 3500	Pickup	1GB4CZC81EF192889
0153	15 GMC Sierra 2500HD	Pickup	1GT120E89FF520071
0158	16 Chevrolet Silverado 2500	Pickup	1GC1CWE81GF165981
0159	16 Chevrolet Silverado 2500	Pickup	1GC1KWE84GF164181
0161	17 GMC Sierra 2500HD	Pickup	1GT12UEY9HF213767
0162	17 Chevrolet Silverado 3500HD	Pickup	1GB4CYCY5HF172661
0163	19 Chevrolet Silverado 2500	Pickup	2GB2CREG1K1222228
0164	19 Chevrolet Silverado 2500	Pickup	2GB2CREG6K1225030
0165	22 Chevrolet Silverado 1500	Pickup	1GCPWBEK2NZ145949
0166	22 Chevrolet Silverado 1500	Pickup	1GCRWBEK2NZ186087
0168	23 GMC Sierra 2500	Pickup	1GD28LE76PF163098
0169	23 GMC Sierra 2500	Pickup	1GD28LE76PF176046
0170	24 GMC Sierra 2500	Pickup	2GC4YNE7XR1141625
0171	23 Chevrolet Trailblazer	Pickup	KL79MPS27PB217396
0172	16 Chevrolet Silverado 2500	Pickup	1GB2CUE696Z421190
0173	24 Chevrolet Silverado 1500	Pickup	3GCPABEK6RG204389
0174	24 Chevrolet Silverado 2500	Pickup	1GB5WLE7XRF421007
0175	24 Chevrolet Silverado 2500	Pickup	1GB5WLE72RF420207
0254	97 Athey Sweeper	Sweeper	1A9Z24CR6VR059001
0257	17 Peterbilt 567 Fuel/Lube Truck	Truck	1NPCL40X3HD391456
0258	18 Peterbilt 567 Tractor	Tractor	1XPCD40XXJD391978
0259	11 Ford F750 Water Truck	Water Truck	3FRWF7FAXBV587662
0260	13 Ford F750 Water Truck	Water Truck	3FRWF7FA4DV798259
0261	13 Ford F750 Water Truck	Water Truck	3FRWF7FA4DV798260
0262	19 Ford F650 Mechanics Truck	Truck	1FDWF6DC8KDF05081
0263	15 Dodge Ram 5550 Mechanics Truck	Truck	3C7WRMBL4FG578012
0264	15 Freightliner M2 Water Truck	Water Truck	3ALACWDTXFDGS3099
0265	16 Freightliner M2 Water Truck	Water Truck	3ALACWDU6GDFY6451

5. The actual or estimated number of workers that will be employed to perform the Work that is the subject of the Bidder's Bid, the total amount of wages to be paid to said workers, and the dates on which said wages will be paid are as follows [Attach additional sheets, if needed.]:

Total Number of Workers	*Total Amount of Wages*	*Date(s) for Payment of Wages*
16	$2,168,000	11/1/2025 - 12/31/2026

6. Check only one of the following boxes, as applicable:

☐ The statement of number of workers declared in Paragraph 5, above, is a statement of the actual number of workers that will be employed.

☒ The actual number of workers requested in Paragraph 5, above, is unknown and therefore the statement of number of workers declared therein is based on the Bidder's best estimate available at the time of submitting its Bid, rather than the actual number of workers that will be employed and if and when the actual number of workers and the other information requested above is available, it will be reported to the District by Bidder in writing.

7. The actual or estimated total number of persons who will be utilized as independent Contractors to perform the Work of the Project that is the subject of the Bidder's Bid (together with their known, current local, state, and federal Contractor license identification numbers that each is required to have under local, state or federal laws or regulations) are as follows [Attach additional sheets, if needed.]:

List of Independent Contractors	*Current, local, state and federal Contractor license identification number*

DECLARATION OF SUFFICIENCY OF FUNDS

8. Check only one of the following boxes, as applicable:

☐ The statement of number of independent Contractors declared in Paragraph 7, above, is a statement of the actual number of independent Contractors that will be utilized.

☒ The actual number of independent Contractors requested in Paragraph 7, above, is unknown and therefore the statement of number of independent Contractors declared therein is based on the Bidder's best estimate available at the time of submitting its Bid, rather than the actual number of independent Contractors that will be utilized, and if and when the actual number of independent Contractors and the other information requested above is available, it will be reported to the District by Bidder in writing.

I, the undersigned, declare under penalty of perjury that the foregoing statements are within my personal knowledge and are true and correct. Executed on this 20th day of August, in the year 2025 at Corona, California.

(Signature)

Charles Hickman

Type Name of Signer:

KEC Engineering

Type Name of Bidder:

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 8/21/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER GMGS Risk Management & Insurance Services 6201 Oak Canyon, Suite 100 Irvine, CA 92618 www.gmgs.com 0B84519	CONTACT NAME: Charise Ferguson PHONE (A/C, No, Ext): (949)559-3367 FAX (A/C, No): (949)559-6703 E-MAIL ADDRESS: charisef@gmgs.com
INSURED KEC Engineering 26320 Lester Circle Corona CA 92883	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : Travelers Indemnity Co of Connecticut — 25682 INSURER B : Travelers Property Casualty Co of Amer — 25674 INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** 86795722 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	✓ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☑ OCCUR ✓ XCU GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER:			DT22-CO-9323B109-TCT-25	7/1/2025	7/1/2026	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$2,000,000 $300,000 $5,000 $2,000,000 $4,000,000 $4,000,000 $
	AUTOMOBILE LIABILITY ✓ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ✓ HIRED AUTOS ONLY ✓ NON-OWNED AUTOS ONLY			810-1N950054-25-26-G Physical Damage: Comp $1,000/Coll $2,500	7/1/2025	7/1/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$2,000,000 $ $ $ $
	☐ UMBRELLA LIAB ☐ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ☐ RETENTION $						EACH OCCURRENCE AGGREGATE 	$ $ $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		UB-7N792894-25-26-G	7/1/2025	7/1/2026	✓ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Project No. 4-0-00009-04, Perris Valley Channel Lateral B, Stage 4
This certificate may be relied upon only if the certificate addendum referred to herein is attached hereto.

CERTIFICATE HOLDER

Perris Valley Channel Lateral B, Stage 4

Riverside County Flood Control & Water Conservation District
1995 Market Street
Riverside CA 92501

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Paul Bland

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AGENCY CUSTOMER ID: _____

LOC #: _____

ADDITIONAL REMARKS SCHEDULE

Page ____ of ____

AGENCY	NAMED INSURED
GMGS Risk Management & Insurance Services	KEC Engineering 26320 Lester Circle Corona CA 92883
POLICY NUMBER	
CARRIER / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 **FORM TITLE:** Certificate of Liability Insurance (03/16)

HOLDER: Riverside County Flood Control & Water Conservation District

ADDRESS: 1995 Market Street Riverside CA 92501

RE: Project No. 4-0-00009-04, Perris Valley Channel Lateral B, Stage 4

As respects General Liability coverage, Riverside County Flood Control and Water Conservation District, the County of Riverside, the City of Perris, March Joint Powers Authority and March Air Reserve Base are added as Additional Insured per CGD2460419 attached, and this insurance is primary per CGT1000219 attached.

As respects General Liability coverage, 30-day written notice of cancellation (10 days for non-payment of premium) applies, per ILT4050519 attached.

As respects Automobile Liability coverage, Riverside County Flood Control and Water Conservation District, the County of Riverside, the City of Perris, March Joint Powers Authority and March Air Reserve Base are added as Additional Insured per CAT3530215 attached.

As respects Workers' Compensation coverage, a Waiver of Subrogation is hereby included, per WC990376 (A)-001 attached.

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ADDENDUM

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED
(Includes Products-Completed Operations If Required By Contract)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

PROVISIONS

The following is added to **SECTION II – WHO IS AN INSURED**:

Any person or organization that you agree in a written contract or agreement to include as an additional insured on this Coverage Part is an insured, but only:

a. With respect to liability for "bodily injury" or "property damage" that occurs, or for "personal injury" caused by an offense that is committed, subsequent to the signing of that contract or agreement and while that part of the contract or agreement is in effect; and

b. If, and only to the extent that, such injury or damage is caused by acts or omissions of you or your subcontractor in the performance of "your work" to which the written contract or agreement applies. Such person or organization does not qualify as an additional insured with respect to the independent acts or omissions of such person or organization.

The insurance provided to such additional insured is subject to the following provisions:

a. If the Limits of Insurance of this Coverage Part shown in the Declarations exceed the minimum limits required by the written contract or agreement, the insurance provided to the additional insured will be limited to such minimum required limits. For the purposes of determining whether this limitation applies, the minimum limits required by the written contract or agreement will be considered to include the minimum limits of any Umbrella or Excess liability coverage required for the additional insured by that written contract or agreement. This provision will not increase the limits of insurance described in Section III – Limits Of Insurance.

b. The insurance provided to such additional insured does not apply to:

(1) Any "bodily injury", "property damage" or "personal injury" arising out of the providing, or failure to provide, any professional architectural, engineering or surveying services, including:

(a) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders or change orders, or the preparing, approving, or failing to prepare or approve, drawings and specifications; and

(b) Supervisory, inspection, architectural or engineering activities.

(2) Any "bodily injury" or "property damage" caused by "your work" and included in the "products-completed operations hazard" unless the written contract or agreement specifically requires you to provide such coverage for that additional insured during the policy period.

c. The additional insured must comply with the following duties:

(1) Give us written notice as soon as practicable of an "occurrence" or an offense which may result in a claim. To the extent possible, such notice should include:

(a) How, when and where the "occurrence" or offense took place;

(b) The names and addresses of any injured persons and witnesses; and

(c) The nature and location of any injury or damage arising out of the "occurrence" or offense.

(2) If a claim is made or "suit" is brought against the additional insured:

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(a) Immediately record the specifics of the claim or "suit" and the date received; and

(b) Notify us as soon as practicable and see to it that we receive written notice of the claim or "suit" as soon as practicable.

(3) Immediately send us copies of all legal papers received in connection with the claim or "suit", cooperate with us in the investigation or settlement of the claim or defense against the "suit", and otherwise comply with all policy conditions.

(4) Tender the defense and indemnity of any claim or "suit" to any provider of other insurance which would cover such additional insured for a loss we cover. However, this condition does not affect whether the insurance provided to such additional insured is primary to other insurance available to such additional insured which covers that person or organization as a named insured as described in Paragraph **4.**, Other Insurance, of Section **IV** – Commercial General Liability Conditions.

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c. Method Of Sharing

If all of the other insurance permits contribution by equal shares, we will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first.

If any of the other insurance does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

d. Primary And Non-Contributory Insurance If Required By Written Contract

If you specifically agree in a written contract or agreement that the insurance afforded to an insured under this Coverage Part must apply on a primary basis, or a primary and non-contributory basis, this insurance is primary to other insurance that is available to such insured which covers such insured as a named insured, and we will not share with that other insurance, provided that:

(1) The "bodily injury" or "property damage" for which coverage is sought occurs; and

(2) The "personal and advertising injury" for which coverage is sought is caused by an offense that is committed;

subsequent to the signing of that contract or agreement by you.

5. Premium Audit

a. We will compute all premiums for this Coverage Part in accordance with our rules and rates.

b. Premium shown in this Coverage Part as advance premium is a deposit premium only. At the close of each audit period we will compute the earned premium for that period and send notice to the first Named Insured. The due date for audit and retrospective premiums is the date shown as the due date on the bill. If the sum of the advance and audit premiums paid for the policy period is greater than the earned premium, we will return the excess to the first Named Insured.

c. The first Named Insured must keep records of the information we need for premium computation, and send us copies at such times as we may request.

6. Representations

By accepting this policy, you agree:

a. The statements in the Declarations are accurate and complete;

b. Those statements are based upon representations you made to us; and

c. We have issued this policy in reliance upon your representations.

The unintentional omission of, or unintentional error in, any information provided by you which we relied upon in issuing this policy will not prejudice your rights under this insurance. However, this provision does not affect our right to collect additional premium or to exercise our rights of cancellation or nonrenewal in accordance with applicable insurance laws or regulations.

7. Separation Of Insureds

Except with respect to the Limits of Insurance, and any rights or duties specifically assigned in this Coverage Part to the first Named Insured, this insurance applies:

a. As if each Named Insured were the only Named Insured; and

b. Separately to each insured against whom claim is made or "suit" is brought.

8. Transfer Of Rights Of Recovery Against Others To Us

If the insured has rights to recover all or part of any payment we have made under this Coverage Part, those rights are transferred to us. The insured must do nothing after loss to impair them. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them.

9. When We Do Not Renew

If we decide not to renew this Coverage Part, we will mail or deliver to the first Named Insured shown in the Declarations written notice of the nonrenewal not less than 30 days before the expiration date.

If notice is mailed, proof of mailing will be sufficient proof of notice.

SECTION V – DEFINITIONS

1. "Advertisement" means a notice that is broadcast or published to the general public or specific market segments about your goods, products or services for the purpose of attracting customers or supporters. For the purposes of this definition:

a. Notices that are published include material placed on the Internet or on similar electronic means of communication; and

b. Regarding websites, only that part of a website that is about your goods, products or services for the purposes of attracting customers or supporters is considered an advertisement.

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POLICY NUMBER: DT22-CO-9323B109-TCT-25 ISSUE DATE:

KEC Engineering

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED PERSON OR ORGANIZATION – NOTICE OF CANCELLATION PROVIDED BY US

This endorsement modifies insurance provided under the following:

ALL COVERAGE PARTS INCLUDED IN THIS POLICY

SCHEDULE

CANCELLATION: **Number of Days Notice:** 30

PERSON OR ORGANIZATION:

ANY PERSON OR ORGANIZATION TO WHOM YOU HAVE AGREED IN A WRITTEN CONTRACT THAT NOTICE OF CANCELLATION OF THIS POLICY WILL BE GIVEN, BUT ONLY IF:
1. YOU SEND US A WRITTEN REQUEST TO PROVIDE SUCH NOTICE, INCLUDING THE NAME AND ADDRESS OF SUCH PERSON OR ORGANIZATION, AFTER THE FIRST NAMED INSURED RECEIVES NOTICE FROM US OF THE CANCELLATION OF THIS POLICY; AND
2. WE RECEIVE SUCH WRITTEN REQUEST AT LEAST 14 DAYS BEFORE THE BEGINNING OF THE APPLICABLE NUMBER OF DAYS SHOWN IN THIS ENDORSEMENT.

ADDRESS:

THE ADDRESS FOR THAT PERSON OR ORGANIZATION INCLUDED IN SUCH WRITTEN REQUEST FROM YOU TO US.

PROVISIONS

If we cancel this policy for any legally permitted reason other than nonpayment of premium, and a number of days is shown for Cancellation in the Schedule above, we will mail notice of cancellation to the person or organization shown in such Schedule. We will mail such notice to the address shown in the Schedule above at least the number of days shown for Cancellation in such Schedule before the effective date of cancellation.

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BUSINESS AUTO EXTENSION ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

GENERAL DESCRIPTION OF COVERAGE – This endorsement broadens coverage. However, coverage for any injury, damage or medical expenses described in any of the provisions of this endorsement may be excluded or limited by another endorsement to the Coverage Part, and these coverage broadening provisions do not apply to the extent that coverage is excluded or limited by such an endorsement. The following listing is a general coverage description only. Limitations and exclusions may apply to these coverages. Read all the provisions of this endorsement and the rest of your policy carefully to determine rights, duties, and what is and is not covered.

A. BROAD FORM NAMED INSURED

B. BLANKET ADDITIONAL INSURED

C. EMPLOYEE HIRED AUTO

D. EMPLOYEES AS INSURED

E. SUPPLEMENTARY PAYMENTS – INCREASED LIMITS

F. HIRED AUTO – LIMITED WORLDWIDE COVERAGE – INDEMNITY BASIS

G. WAIVER OF DEDUCTIBLE – GLASS

H. HIRED AUTO PHYSICAL DAMAGE – LOSS OF USE – INCREASED LIMIT

I. PHYSICAL DAMAGE – TRANSPORTATION EXPENSES – INCREASED LIMIT

J. PERSONAL PROPERTY

K. AIRBAGS

L. NOTICE AND KNOWLEDGE OF ACCIDENT OR LOSS

M. BLANKET WAIVER OF SUBROGATION

N. UNINTENTIONAL ERRORS OR OMISSIONS

PROVISIONS

A. BROAD FORM NAMED INSURED

The following is added to Paragraph **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE**:

Any organization you newly acquire or form during the policy period over which you maintain 50% or more ownership interest and that is not separately insured for Business Auto Coverage. Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier.

B. BLANKET ADDITIONAL INSURED

The following is added to Paragraph **c.** in **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE**:

Any person or organization who is required under a written contract or agreement between you and that person or organization, that is signed and executed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to be named as an additional insured is an "insured" for Covered Autos Liability Coverage, but only for damages to which this insurance applies and only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Section II.

C. EMPLOYEE HIRED AUTO

1. The following is added to Paragraph **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE**:

   An "employee" of yours is an "insured" while operating an "auto" hired or rented under a contract or agreement in an "employee's" name, with your permission, while performing duties related to the conduct of your business.

2. The following replaces Paragraph **b.** in **B.5., Other Insurance**, of **SECTION IV – BUSINESS AUTO CONDITIONS**:

   b. For Hired Auto Physical Damage Coverage, the following are deemed to be covered "autos" you own:

   (1) Any covered "auto" you lease, hire, rent or borrow; and

   (2) Any covered "auto" hired or rented by your "employee" under a contract in an "employee's" name, with your

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TRAVELERS

WORKERS COMPENSATION AND EMPLOYERS LIABILITY POLICY

ENDORSEMENT WC 99 03 76 (A)

POLICY NUMBER: UB-7N792894-25-26-G

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT CALIFORNIA (BLANKET WAIVER)

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule.

The additional premium for this endorsement shall be 2.0 % of the California workers' compensation premium.

Schedule

Person or Organization	Job Description
ANY PERSON OR ORGANIZATION FOR WHICH THE INSURED HAS AGREED BY WRITTEN CONTRACT EXECUTED PRIOR TO LOSS TO FURNISH THIS WAIVER	

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective 7/1/2025 Policy No. UB-7N792894-25-26-G Endorsement No.

Insured KEC Engineering Premium

Insurance Company Countersigned by

DATE OF ISSUE: - - **ST ASSIGN:**

07/01/2025

JASON E. UHLEY
General Manager-Chief Engineer

1995 MARKET STREET
RIVERSIDE, CA 92501
951.955.1200
951.788.9965 FAX
www.rcflood.org
262687

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

July 9, 2025

ADDENDUM NO. 1
TO
PERRIS VALLEY CHANNEL MDP LATERAL B, STAGE 4

RIVERSIDE COUNTY, CALIFORNIA

Bid Opening Date: Thursday, July 24, 2025 at 2:00 p.m.

ADDENDUM NO. 1

PROPOSAL

REPLACE PROPOSAL in its entirety (Pages XV, XVa, XVb and, XVc) to accommodate:

- Change in total cost of Item Extra Directed Work.
- The addition of a signature line on the bottom of Page XVc for acknowledgment of this Addendum.

EXHIBIT

REPLACE EXHIBIT A in its entirety (Pages XXVI, XXVIa and XXVIb) to accommodate:

- Change in total cost of Item Extra Directed Work.
- Add Item Nos. 43 through 48 to match Proposal.

DRAWINGS

REPLACE Sheets 1 through 42 of Drawing No. 4-1170 in its entirety.

RESPONSE TO QUESTIONS

Included with this Addendum is Response to Questions.

AS-BUILT DRAWING NO. 4-1158

Included with this Addendum are as-built plans for Perris Valley Channel MDP Lateral B, Stage 5, Drawing No. 4-1158

MINUTES TO PRE-BID MEETING

Included with this Addendum are Minutes to Pre-Bid Meeting.

****

NOTE: Bidders are required to acknowledge receipt of all addenda at the bottom of **Page XVc** of the PROPOSAL. Failure to acknowledge all addenda on the bid form may cause the bid to be considered not responsive to the invitation, which would require rejection of the bid.

for JASON E. UHLEY
General Manager-Chief Engineer

Attachment
rlp

PROPOSAL

For the Construction of **Perris Valley Channel Lateral B, Stage4**, located in the city of Perris, Riverside County, consisting of the following estimated quantities:

SECT. NO.	ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
10	1.	Mobilization	L.S.	- - -	- - -	
11	2.	Water Control	L.S.	- - -	- - -	
12	3.	Traffic Control	L.S.	- - -	- - -	
13	4.	Clearing and Miscellaneous Work	L.S.	- - -	- - -	
14	5.	Excavation	C.Y.	65,630		
14	6.	Pavement Removal	C.Y.	31		
14	7.	Backfill	C.Y.	22,450		
14	8.	Controlled Low Strength Material (CLSM)	C.Y.	2,700		
15	9.	Trench Safety System and Falsework	L.S.	- - -		
16	10.	Class "A" Concrete, Reinforced Concrete Box	C.Y.	6,810		
16	11.	Class "A: Concrete, Access Shaft	C.Y.	45		
16	12.	Class "A" Concrete, Minor Structures	C.Y.	7		
16	13.	Class "A" Concrete, Lateral LS Inlet	L.S.	- - -		
16	14.	Class "A" Concrete, Line C Inlet	L.S.	- - -		
16	15.	Class "B" Concrete, Concreted Rock	C.Y.	133		
16	16.	Class "B" Concrete, Miscellaneous	C.Y.	152		
16	17.	Transition Structure No. 2	C.Y.	42		
16	18.	Transition Structure No. 4	C.Y.	235		
16	19.	Junction Structure No. 1	EACH	1		

ADDENDUM NO. 1

PROPOSAL contd.

SECT. NO.	ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
16	20.	Junction Structure No. 5	EACH	4		
16	21.	Manhole No. 3	EACH	18		
17	22.	18" Reinforced Concrete Pipe, Class IV	L.F.	25		
17	23.	54" Reinforced Concrete Pipe, 1600D	L.F.	51		
19	24.	Aggregate Base, Class 2	C.Y.	1,200		
19	25.	Hot Mix Asphalt (HMA)	TONS	830		
20	26.	6-Foot Chain Link Fence	L.F.	60		
20	27.	Airforce Base Security Fence	L.F.	2,960		
20	28.	Temporary Security Fencing	L.F.	3,830		
20	29.	Temporary ILS (Instrument Landing System) Zone Security Fencing	L.F.	1,200		
20	30.	Cable Railing	L.F.	115		
20	31.	Tubular Steel Fence	L.F.	56		
20	32.	Temporary Fencing	L.F.	100		
20	33.	14-Foot Double Drive Gates	EACH	1		
21	34.	Miscellaneous Iron and Steel	LBS.	22,180		
21	35.	Adjust Manhole to Grade	EACH	8		
21	36.	Sloped Protection Barrier	EACH	2		
21	37.	Relocate Sluice Gate	L.S.	1		
21	38.	Flow Equalizing Window	EACH	5		
21	39.	Temporary Access Road Removal	C.Y.	340		
	40.	Extra Directed Work	L.S.	---	---	1,000,000
26	41.	Rock Slope Protection (RSP) Class V	C.Y.	530		
26	42.	Filter Material	C.Y.	740		

ADDENDUM NO. 1

PROPOSAL contd.

SECT. NO.	ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
26	43.	Rock Slope Protection (RSP) Fabric	S.Y.	590		
27	44.	Dust Abatement	L.S.	- - -		
28	45.	Hydroseeding	ACRE	17.5		
29	46.	Stormwater and Non-Stormwater Pollution Control and Non-Stormwater Discharge or Dewatering	L.S.	- - -		
31	47.	10.5'H x 9'W Precast Reinforced Concrete Box (PRCB)	L.F.	3,152		
31	48.	10'H x 14'W Precast Reinforced Concrete Box (PRCB)	L.F.	1,180		

For the Total Bid Proposal of: **TOTAL COST** (State in Figures) $

ADDENDUM NO. 1

PROPOSAL contd.

Name of Contractor	Signature of Contractor's authorized representative
	Name: _____
	Title: _____
Address	S.S.N. or E.I.N.
City, State, Zip	Contractor's License No. and Classification
Telephone Number Fax Number	Contractor's DIR Registration No.
Email	If bidder is a corporation, corporate seal and attestation shall be provided below.
Dated: _____	

ADDENDUM NO. 1 ACKNOWLEDGED

_____
Signature

Attested: _____
Signature

ADDENDUM NO. 1

EXHIBIT A

(To Agreement for Riverside County Flood Control and Water Conservation District's Project No. **Project No. 4-0-00009-04, Perris Vally Channel Lateral B, Stage 4,** located in the city of Perris, Riverside County, California.)

Contract Price - Payment - District shall pay Contractor the following sums for the items set forth below in accordance with Contractor's Proposal as accepted by District, which sums shall be paid as provided in the General Provisions and subject to additions and deductions as provided in the Contract Documents.

It is understood that the quantities listed, except for those shown as "Final" or "Lump Sum" are but estimates only and final payment will be based on actual work performed, subject to such adjustments and alterations as elsewhere provided.

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
1.	Mobilization	L.S.	---	---	
2.	Water Control	L.S.	---	---	
3.	Traffic Control	L.S.	---	---	
4.	Clearing and Miscellaneous Work	L.S.	---	---	
5.	Excavation	C.Y.	65,630		
6.	Pavement Removal	C.Y.	31		
7.	Backfill	C.Y.	22,450		
8.	Controlled Low Strength Material (CLSM)	C.Y.	2,700		
9.	Trench Safety System and Falsework	L.S.	---		
10.	Class "A" Concrete, Reinforced Concrete Box	C.Y.	6,810		
11.	Class "A: Concrete, Access Shaft	C.Y.	45		
12.	Class "A" Concrete, Minor Structures	C.Y.	7		
13.	Class "A" Concrete, Lateral LS Inlet	L.S.	---		
14.	Class "A" Concrete, Line C Inlet	L.S.	---		
15.	Class "B" Concrete, Concreted Rock	C.Y.	133		

ADDENDUM NO. 1

EXHIBIT A contd.

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
16.	Class "B" Concrete, Miscellaneous	C.Y.	152		
17.	Transition Structure No. 2	C.Y.	42		
18.	Transition Structure No. 4	C.Y.	235		
19.	Junction Structure No. 1	EACH	1		
20.	Junction Structure No. 5	EACH	4		
21.	Manhole No. 3	EACH	18		
22.	18" Reinforced Concrete Pipe, Class IV	L.F.	25		
23.	54" Reinforced Concrete Pipe, 1600D	L.F.	51		
24.	Aggregate Base, Class 2	C.Y.	1,200		
25.	Hot Mix Asphalt (HMA)	TONS	830		
26.	6-Foot Chain Link Fence	L.F.	60		
27.	Airforce Base Security Fence	L.F.	2,960		
28.	Temporary Security Fencing	L.F.	3,830		
29.	Temporary ILS (Instrument Landing System) Zone Security Fencing	L.F.	1,200		
30.	Cable Railing	L.F.	115		
31.	Tubular Steel Fence	L.F.	56		
32.	Temporary Fencing	L.F.	100		
33.	14-Foot Double Drive Gates	EACH	1		
34.	Miscellaneous Iron and Steel	LBS.	22,180		
35.	Adjust Manhole to Grade	EACH	8		
36.	Sloped Protection Barrier	EACH	2		
37.	Relocate Sluice Gate	L.S.	1		
38.	Flow Equalizing Window	EACH	5		

ADDENDUM NO. 1

EXHIBIT A contd.

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
39.	Temporary Access Road Removal	C.Y.	340		
40.	Extra Directed Work	L.S.	- - -	- - -	1,000,000
41.	Rock Slope Protection (RSP) Class V	C.Y.	530		
42.	Filter Material	C.Y.	740		
43.	Rock Slope Protection (RSP) Fabric	S.Y.	590		
44.	Dust Abatement	L.S.	- - -		
45.	Hydroseeding	ACRE	17.5		
46.	Stormwater and Non-Stormwater Pollution Control and Non-Stormwater Discharge or Dewatering	L.S.	- - -		
47.	10.5'H x 9'W Precast Reinforced Concrete Box (PRCB)	L.F.	3,152		
48.	10'H x 14'W Precast Reinforced Concrete Box (PRCB)	L.F.	1,180		
				TOTAL	

ADDENDUM NO. 1

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

GENERAL NOTES:

1. EXCAVATION AND BACKFILL PAY LINES ARE SHOWN ON RCFC STANDARD DRAWING M815 UNLESS SHOWN OTHERWISE ON THESE PLANS.
2. ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION.
3. ALL CHANNEL/STORM DRAIN REFERENCES AND CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
4. TOPOGRAPHY BY DIGITAL PHOTOGRAMMETRIC METHODS. AERIAL PHOTOGRAPHS TAKEN AT AN ALTITUDES NOT TO EXCEED A FLYING HEIGHT TO CONTOUR INTERVAL RATIO OF 1800. PHOTOGRAPHY DATED 09/14/2020.
5. THE VERTICAL DATUM IS DERIVED FROM NGVD 29. THE HORIZONTAL DATUM IS DERIVED FROM NAD83(YEAR) EPOCH 2017.5, AND CALIFORNIA STATE PLANE, ZONE 6.
6. STANDARD DRAWINGS CALLED FOR ON THE PLAN & PROFILE SHALL CONFORM TO RCFC&WCD STD. DRAWINGS, OR CALTRANS/CITY/COUNTY STANDARD PLANS.
7. ELEVATIONS AND LOCATIONS OF UTILITIES WERE OBTAINED FROM AVAILABLE INFORMATION AND ARE SHOWN APPROXIMATELY ON THESE PLANS. 48 HOURS BEFORE EXCAVATION CALL UNDERGROUND SERVICE ALERT AT 1-800-227-2600. ALL UTILITIES SHALL BE PROTECTED IN PLACE EXCEPT AS NOTED ON PLANS AND SPECIFICATIONS.
8. THE CONTRACTOR IS REQUIRED TO CONTACT ALL UTILITY AGENCIES REGARDING TEMPORARY SUPPORT AND SHORING REQUIREMENTS FOR THE VARIOUS UTILITY LINES SHOWN ON THESE PLANS.
9. ALL OPENINGS RESULTING FROM CUTTING OR PARTIAL REMOVAL OF EXIST. CULVERTS, PIPES, OR SIMILAR STRUCTURES TO BE ABANDONED, UNLESS BE SEALED AT BOTH ENDS WITH 6" MINIMUM CLASS B CONCRETE OR AS SPECIFIED BY THE ENGINEER.
10. UNLESS OTHERWISE SPECIFIED, MINIMUM STREET RECONSTRUCTION SHALL BE 4" TYPE "B" HOT ASPHALT MIX OVER 6" CLASS 2 AGGREGATE BASE OR AS SPECIFIED BY THE ENGINEER.
11. ALL RECONSTRUCTION, RESURFACING AND PAVEMENT DELINEATION, CURBS, SIDEWALKS AND OTHER IMPROVEMENTS ARE TO BE RECONSTRUCTED IN KIND AT THE SAME LOCATIONS AND ELEVATIONS AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
12. ⊕ INDICATES APPROX. SOIL BORING LOCATIONS PER GEOCON SOILS REPORT DATED 07/07/2022
13. ◉ INDICATES POTHOLE LOCATIONS PER POTHOLE REPORT DATED 06/07/2022
14. ALL JUNCTION STRUCTURES SHALL BE JS NO. 5 PER RCFC STD. JS230, A=90°, UNLESS OTHERWISE NOTED.
15. THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2 INCHES OVER THE REINFORCING AND INCREASED TO A MINIMUM OF 3-1/2 INCHES OVER REINFORCING OF BOX CULVERT, WHEN DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5,000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND F'C=6,000 PSI FOR VELOCITIES EXCEEDING 30 FEET PER SECOND.

SPPWC STANDARD DRAWINGS

STD 382-2 WINDOW DETAILS FOR MULTIPLE RCB STRUCTURES
STD 390-0 PRECAST RCB
STD 360-2 SLOPE PROTECTION BARRIER

CALTRANS STANDARD

D80	CAST-IN-PLACE REINFORCED SINGLE RCB CULVERT
D81	CAST-IN-PLACE REINFORCED DOUBLE RCB CULVERT
D86A	BOX CULVERT WARPED WINGWALLS
G1	PRECAST DRAINAGE INLETS
D77A	GRATE DETAILS NO. 1

M.A.R.B. GENERAL NOTES:

1. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT PRIOR TO ENTERING THE MARB PROPERTY.

UFC 4-022-3 SECURITY FENCES AND GATES CRITERIA

UFC-702 CHAIN LINK SWING GATE AND DETAILS

BENCHMARK

Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

BASIS OF BEARINGS

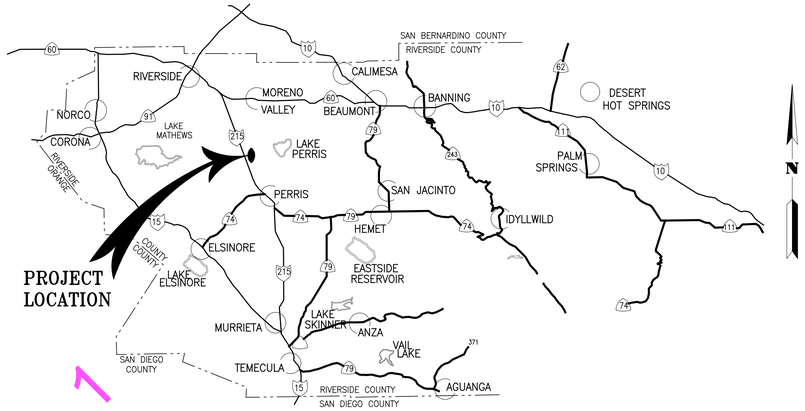
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, NAD 83 (EPOCH 2017.50) AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) AND/OR CONTINUOUS OPERATING REFERENCE STATIONS (CORS) LMHG AND MLFP BEING N 19° 57'42" E AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) AND/OR NATIONAL GEODETIC SURVEY (NGS), RESPECTIVELY. ALL DISTANCES ARE U.S. FEET (GRID). GROUND DISTANCES CAN BE OBTAINED BY DIVIDING THE GRID DISTANCE BY A COMBINATION FACTOR OF 0.99992974.

R.C.F.C. & W.C.D. STANDARD DRAWINGS

JS	226	JUNCTION STRUCTURE NO.1
JS	228	JUNCTION STRUCTURE NO.3
JS	230	JUNCTION STRUCTURE NO.5
CB	103	FRAME AND COVER (MANHOLE)
MH	253	MANHOLE NO.3
MH	257	MANHOLE SHAFT FOR CAST PIPE
MH	259	STANDARD DROP STEP
MH	260	24" MANHOLE FRAME AND COVER
TS	302	TRANSITION STRUCTURE NO. 2
TS	304	TRANSITION STRUCTURE NO. 4
M	814	ABBREVIATIONS AND SYMBOLS
M	815	EXCAVATION AND BACKFILL PAY LINES
M	816	CONCRETE BULKHEAD
M	826	CABLE FENCE DETAIL

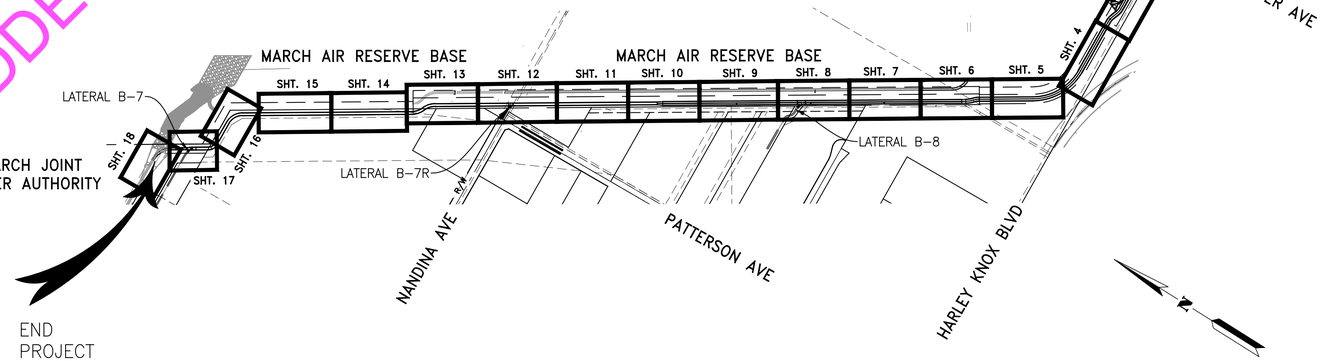
SHEET INDEX

	SHEET NO.
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LATERAL B PLAN & PROFILE	2-18
ACCESS ROAD EXHIBIT	19
ACCESS ROAD CROSS-SECTIONS	20
LATERAL LS, LINE C, D PLAN & PROFILE	21
LATERAL B-8, B-7R PLAN & PROFILE	22
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SLUICE GATE ELECTRICAL PLANS	38-42



VICINITY MAP
T.3S, R.4W, SEC.36
N.T.S.

ADDENDUM NO. 1



INDEX MAP
1" = 400'

1" = 400'
400 0 400

MARB
KURT R. HEINZE, CW, DAF
452 BASE CIVIL ENGINEER
DATE: 11/24/2024

APPROVED BY: MJPA
MJPA CONTRACT ENGINEER
DATE: NOVEMBER 21, 2023

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/16/2023

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS DESCRIPTION	APPR.	DATE
1	LATERAL B-7 STUBOUT EXTENSION - SH. 17&23	E.A.	2/8/24
2	MISC. TCE, CN, FENCE, INLET UPDATES	E.A.	7/8/25

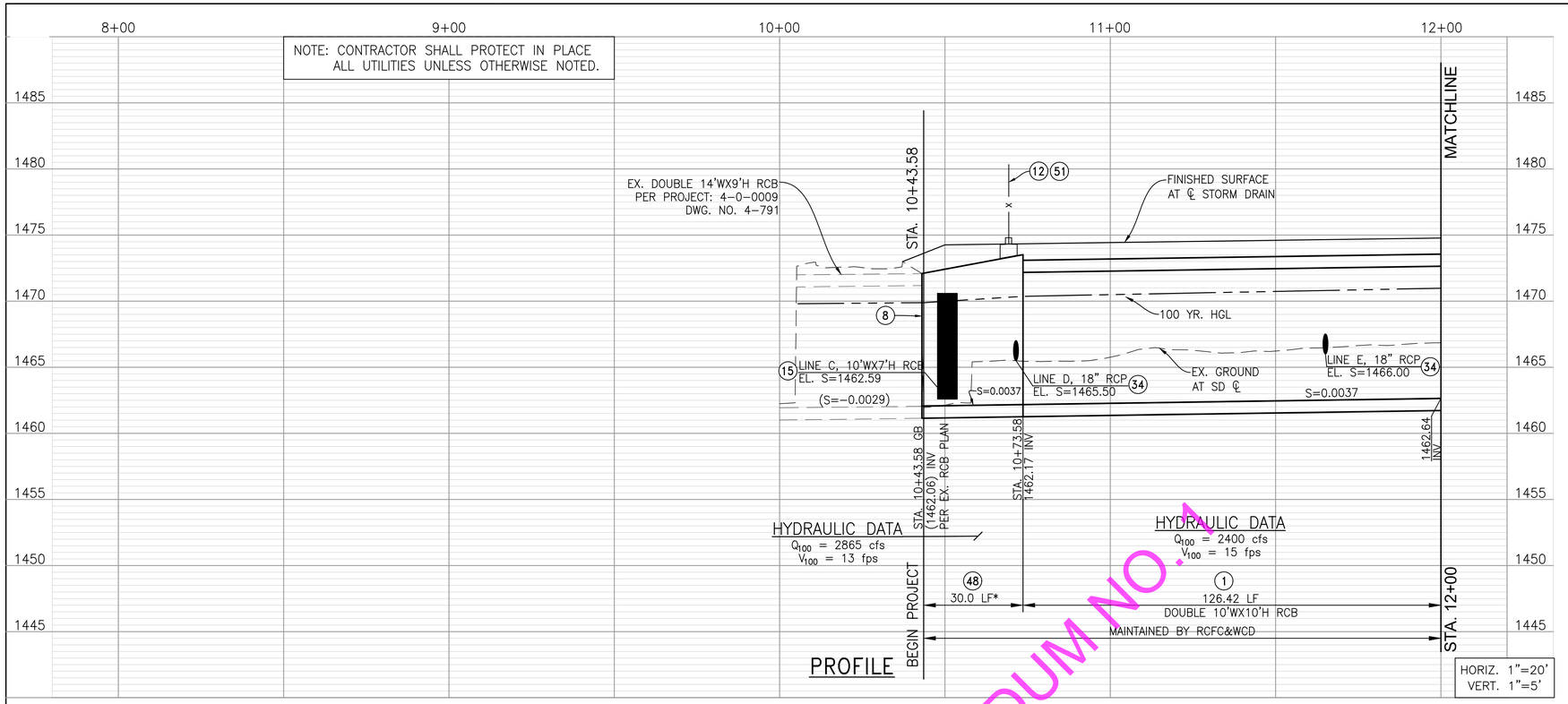
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: CHIEF, DESIGN & CONSTRUCTION DATE: 11/20/23
APPROVED BY: GENERAL MANAGER-CHIEF ENGINEER DATE: 11/16/2023

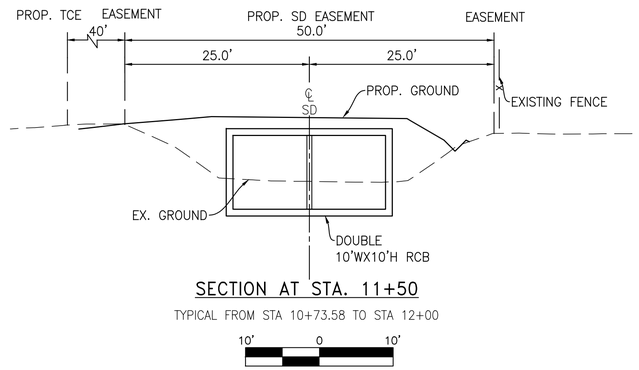
PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
TITLE SHEET

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	1 OF 42

H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B SD PLAN.DWG 11/16/2023 10:40:38 AM

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.





SECTION AT STA. 11+50

TYPICAL FROM STA 10+73.58 TO STA 12+00

10' 0 10'

MANHOLE / JUNCTION STRUCTURE DATA					
LATERAL	℄ STATION	WALL STATION	STRUCTURE	A	C
LINE D	~~10+71.47~~ 10+66.40	10+71.47	JS NO. 3	90°	–
LINE C	10+50.74	10+50.74	JS NO. 5	90°	–

NOTES:

(1) INSTALL DOUBLE 10' W X 10' H RCB PER CALTRANS STD. DWG. D-81 (2018 EDITION)

(8) JOIN EXISTING STRUCTURE WITH TRANSVERSE EXPANSION JOINT DETAIL ON SHEET 30. AND PER RCFC&WCD STD. DWG. CH329 NOTE 6

(9) DEMOLISH EXISTING WINGWALL AND APRON PER DEMOLITION PLAN ON SHEET 31 AND 32

(10) CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

(13) INSTALL FLOW EQUALIZING WINDOW PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION STD. DWG. 382-2

(15) CONSTRUCT JUNCTION STRUCTURE NO. 5 PER RCFC&WCD STD. DWG. NO. JS230 DESIGN CASE AM14P10 – MODIFIED PER DETAIL L ON SHEET 28

(17) REMOVE AND SALVAGE EX. SLUICE GATE AND INSTALL IN LOCATION SHOWN IN SHEET 3

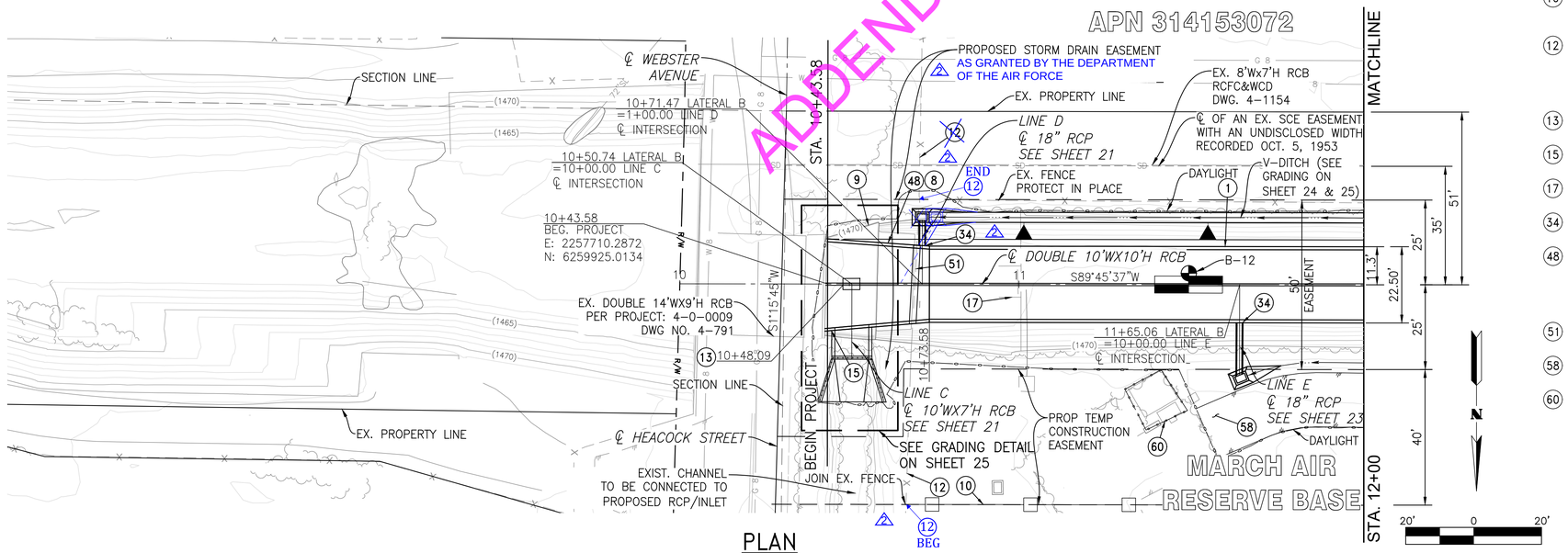
(34) CONSTRUCT JUNCTION STRUCTURE NO. 3 PER RCFC&WCD STD. DWG. NO. JS228

(48) CONSTRUCT TRANSITION STRUCTURE NO. 4 PER RCFC&WCD STD. DWG NO. TS304. CENTER WALL SHALL BE CONTINUOUS WITH STEEL AND WALL THICKNESSES PER CALTRANS STD. DWG. D-81 FOR DOUBLE 14'WX9'H RCB (2018 EDITION)

(51) CONSTRUCT FENCE POLES OVER TRANSITION STRUCTURE PER DETAIL ON SHEET 34

(58) ACCESS ROAD TO RELOCATED SLUICE GATE PER ACCESS ROAD EXHIBIT ON SHEET 33

(60) INSTALL TEMPORARY PANEL FENCE TO PROTECT IN PLACE EXISTING RUNWAY LANDING APPROACH BEACON



PLAN

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE, CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/17/2023
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
PB NUMBER:	238474

Don't Dig...Until You Call: U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
2	FENCE, INLET RELOCATION, EASEMENT DATA	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

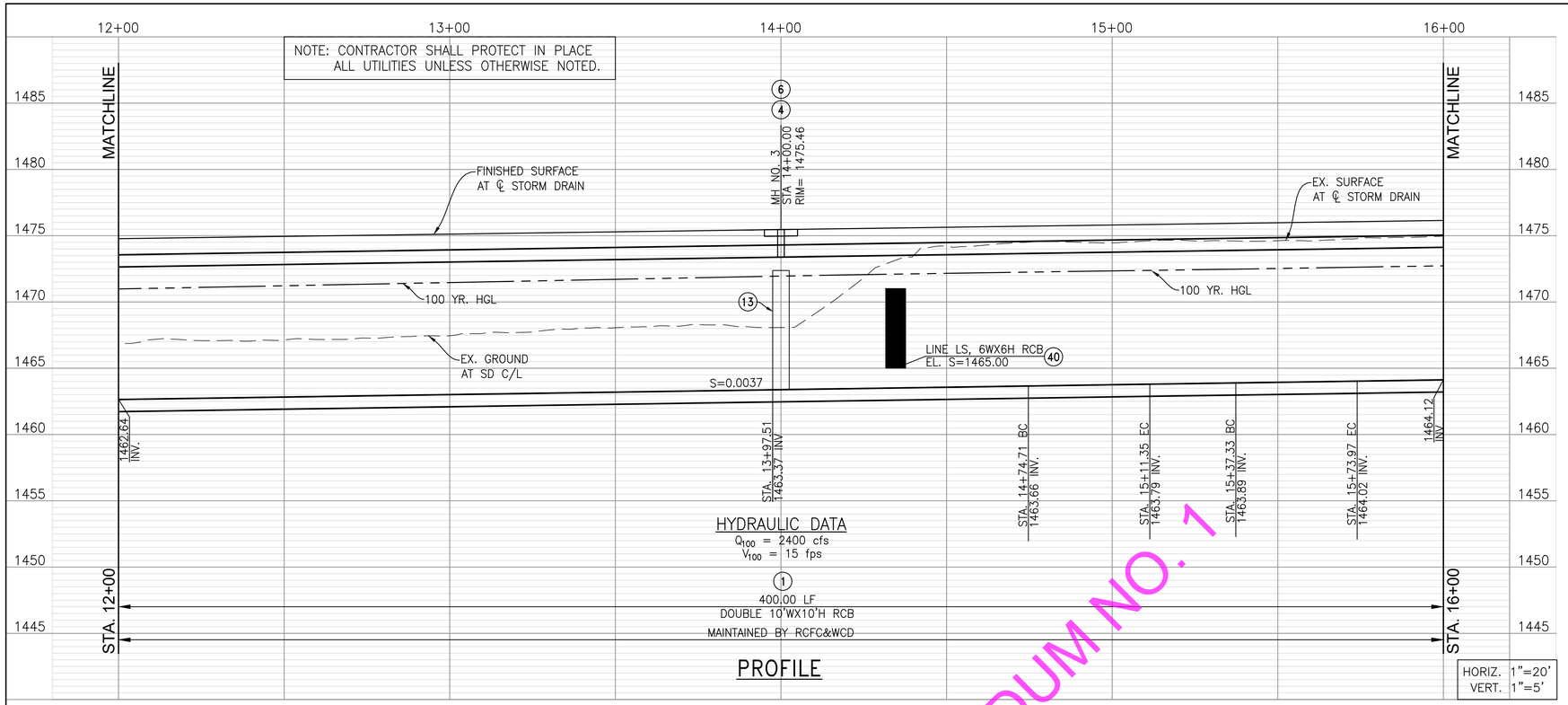
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

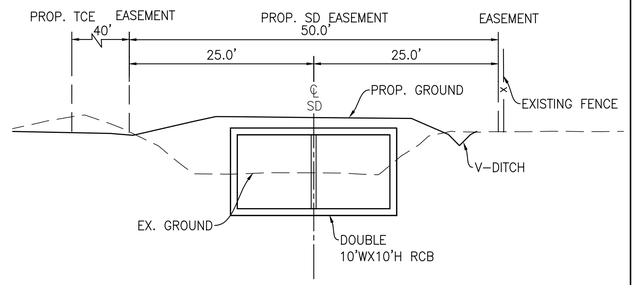
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 10+43.58 TO STA. 12+00.00

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	2 OF 42

H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B SD PLAN.DWG 11/16/2023 10:44:28 AM





SECTION AT STA. 13+50

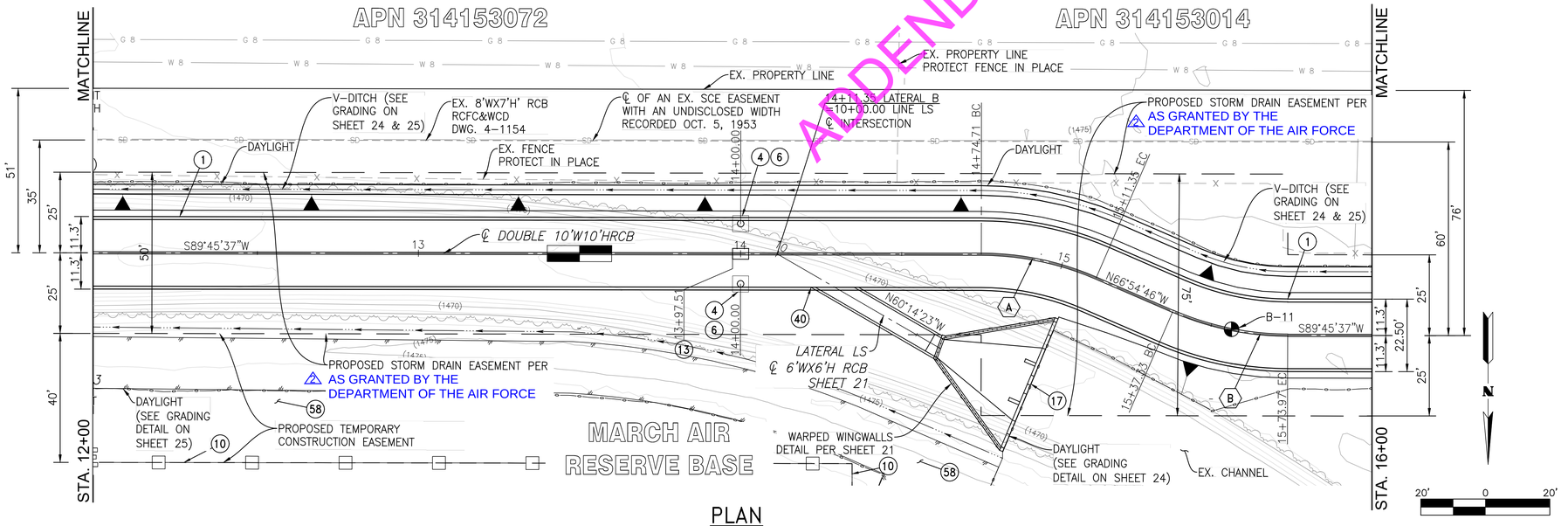
TYPICAL FROM STA 12+00 TO STA 14+00

10' 0 10'

MANHOLE / JUNCTION STRUCTURE DATA					
LATERAL	℄ STATION	WALL STATION	STRUCTURE	A	C
LINE LS	14+11.35	14+29.24	JS NO. 5	30"	–

NOTES:

1. INSTALL DOUBLE 10' W X 10' H RCB PER CALTRANS STD. DWG. D-81 (2018 EDITION)
4. CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253 AND LOCKED WITH SOCKET SET SCREWS LID PER RCFC&WCD STD. DWG. MH260
6. INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE
10. CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)
13. INSTALL FLOW EQUALIZING WINDOW PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION STD. DWG. 382-2
17. REMOVE AND SALVAGE EX. SLUICE GATE AND INSTALL IN LOCATION SHOWN HERE ON. ELECTRICAL PER SEPARATE PLAN.
40. CONSTRUCT JUNCTION STRUCTURE NO. 5 PER RCFC&WCD STD. DWG. NO. JS230 DESIGN CASE AM10P12
58. ACCESS ROAD TO RELOCATED SLUICE GATE PER ACCESS ROAD EXHIBIT ON SHEET 33



PLAN

CURVE DATA		(A)	(B)
R		90.00'	90.00'
Δ		23°19'37"	23°19'37"
L		36.64'	36.64'
T		18.58'	18.58'
BC		STA. 14+74.71	STA. 15+37.33
EC		STA. 15+11.35	STA. 15+73.97
PI	NORTHING	2257708.406	2257733.164
	EASTING	6259475.312	6259417.233

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

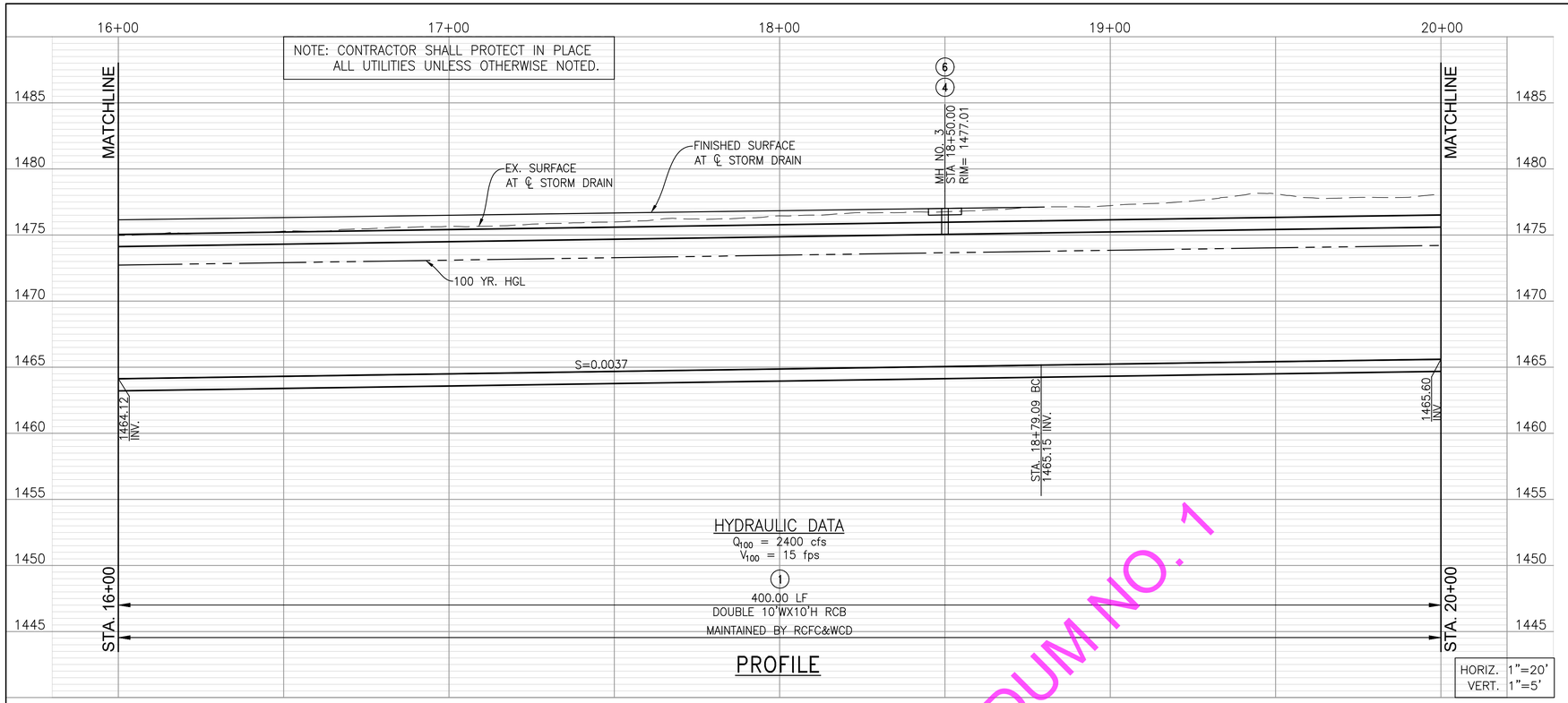
REF.	REVISIONS	APPR.	DATE
2	ADD EASEMENT DATA	E.A.	7/8/25

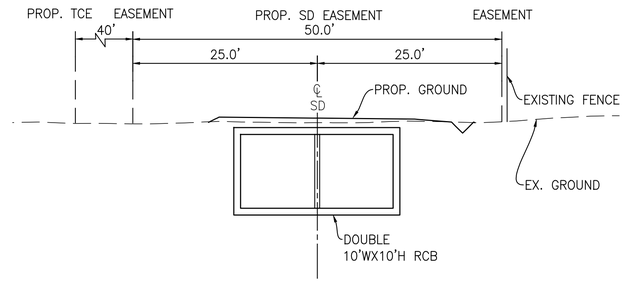
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 12+00.00 TO STA. 16+00.00

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 3 OF 42

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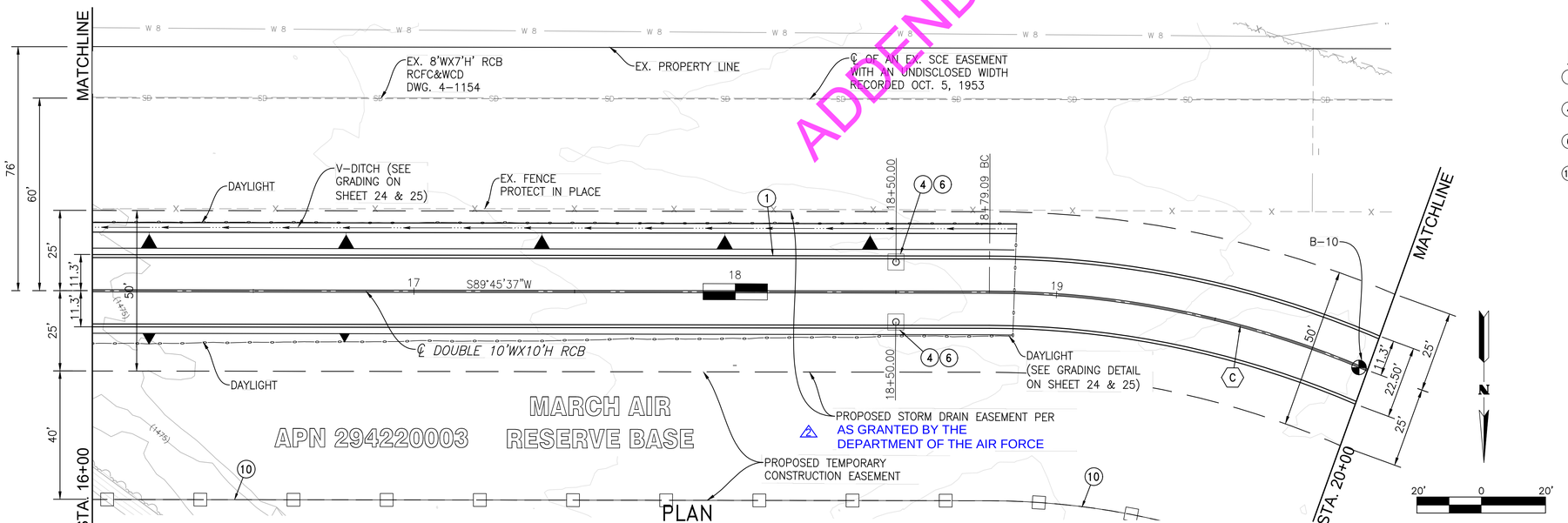


SECTION AT STA. 18+00

TYPICAL FROM STA 18+00 TO STA 20+00

10' 0 10'

ADDENDUM NO. 1



NOTES:

1. INSTALL DOUBLE 10' W X 10' H RCB PER CALTRANS STD. DWG. D-81 (2018 EDITION)
4. CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253 AND LOCKED WITH SOCKET SET SCREWS LID PER RCFC&WCD STD. DWG. MH260
6. INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE
10. CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

CURVE DATA	℄
R	300.00'
Δ	60°07'32"
L	314.82'
T	173.64'
BC	STA. 18+79.09
EC	STA. 21+93.91
PI NORTHING	2257731.084
PI EASTING	6258919.894

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call: U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE
2	ADD EASEMENT DATA	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

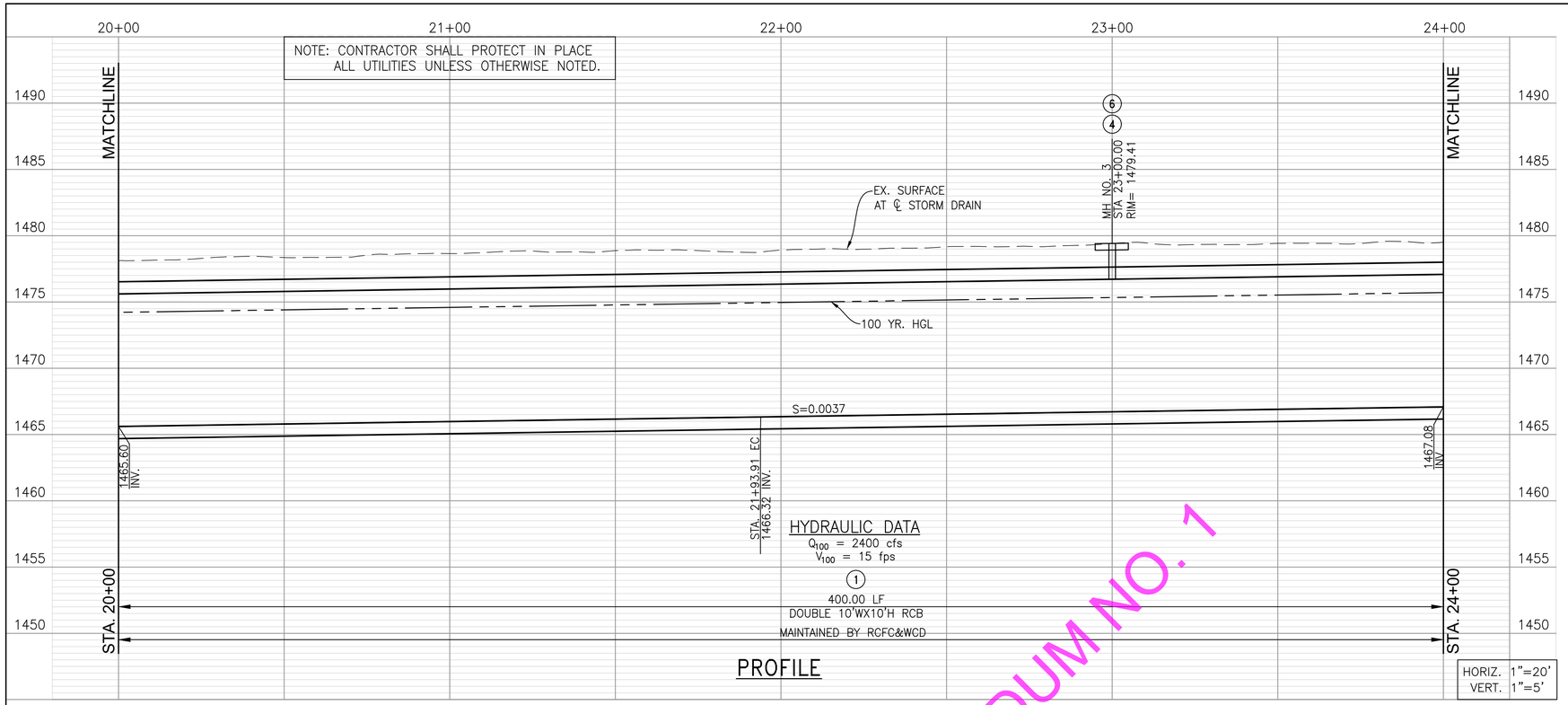
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

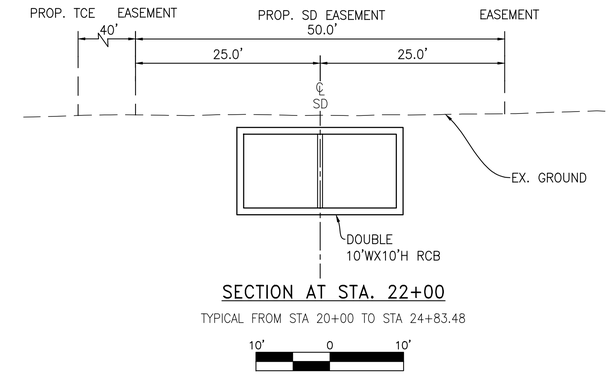
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 16+00.00 TO STA. 20+00.00

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 4 OF 42

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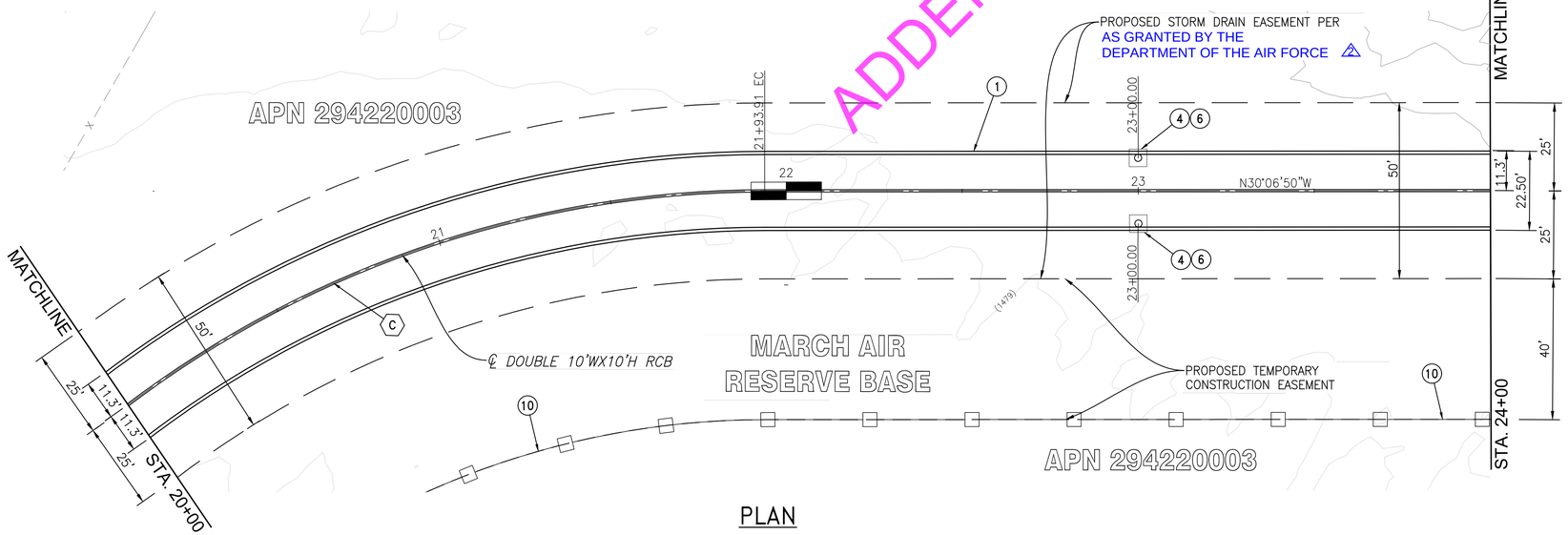




SECTION AT STA. 22+00

TYPICAL FROM STA 20+00 TO STA 24+83.48

10' 0 10'



PLAN

20' 0 20'

NOTES:

1. INSTALL DOUBLE 10' W X 10' H RCB PER CALTRANS STD. DWG. D-81 (2018 EDITION)
4. CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253 AND LOCKED WITH SOCKET SET SCREWS LID PER RCFC&WCD STD. DWG. MH260
6. INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE
10. CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

CURVE DATA	℄
R	300.00'
Δ	60°07'32"
L	314.82'
T	173.64'
BC	STA. 18+79.09
EC	STA. 21+93.91
PI NORTHING	2257731.084
PI EASTING	6258919.894

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P/B NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

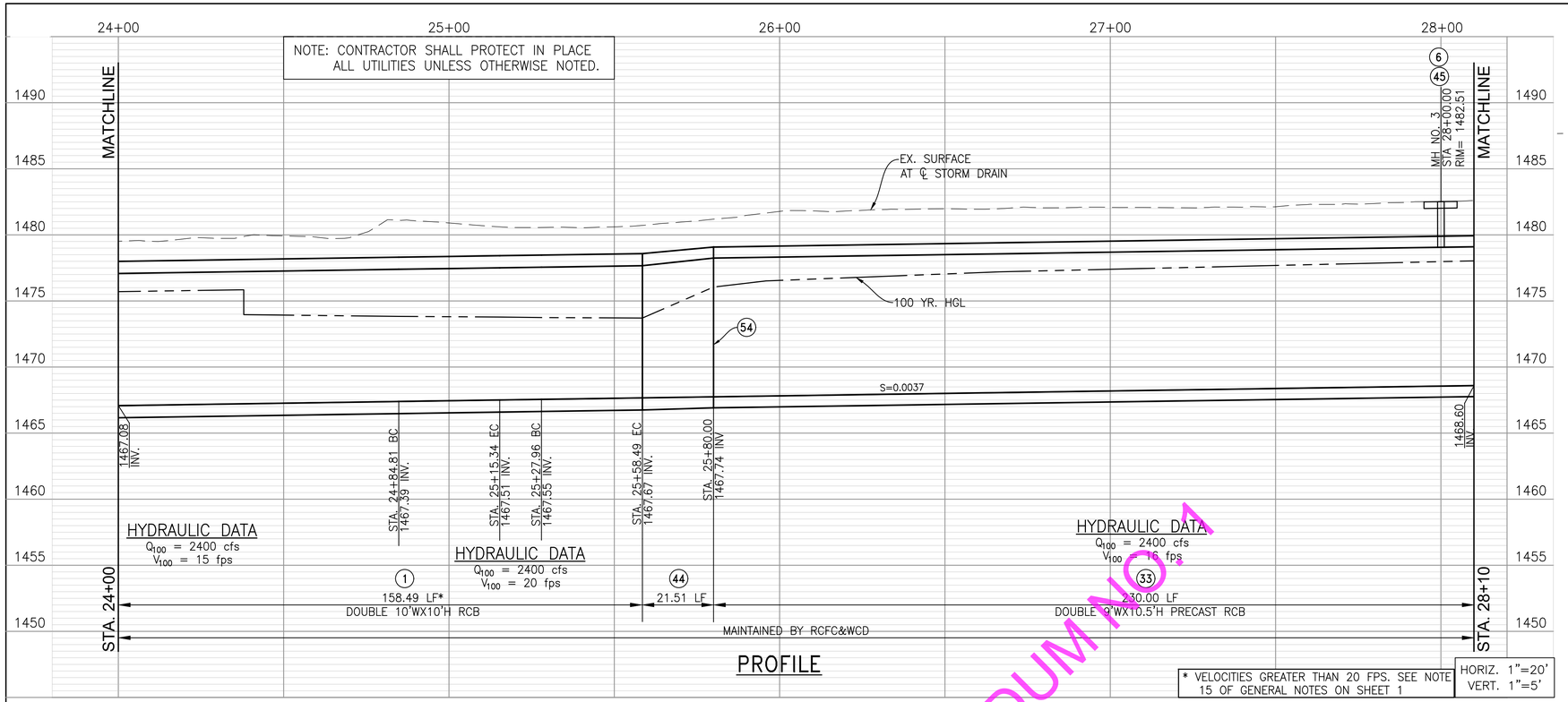
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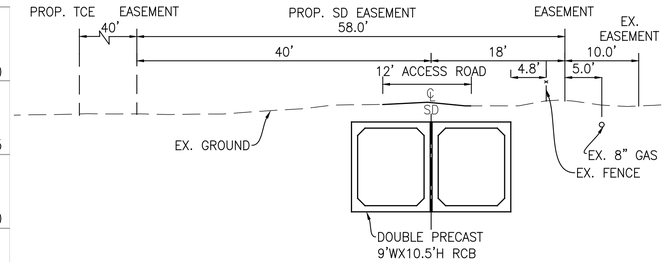
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 20+00.00 TO STA. 24+00.00

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	5 OF 42

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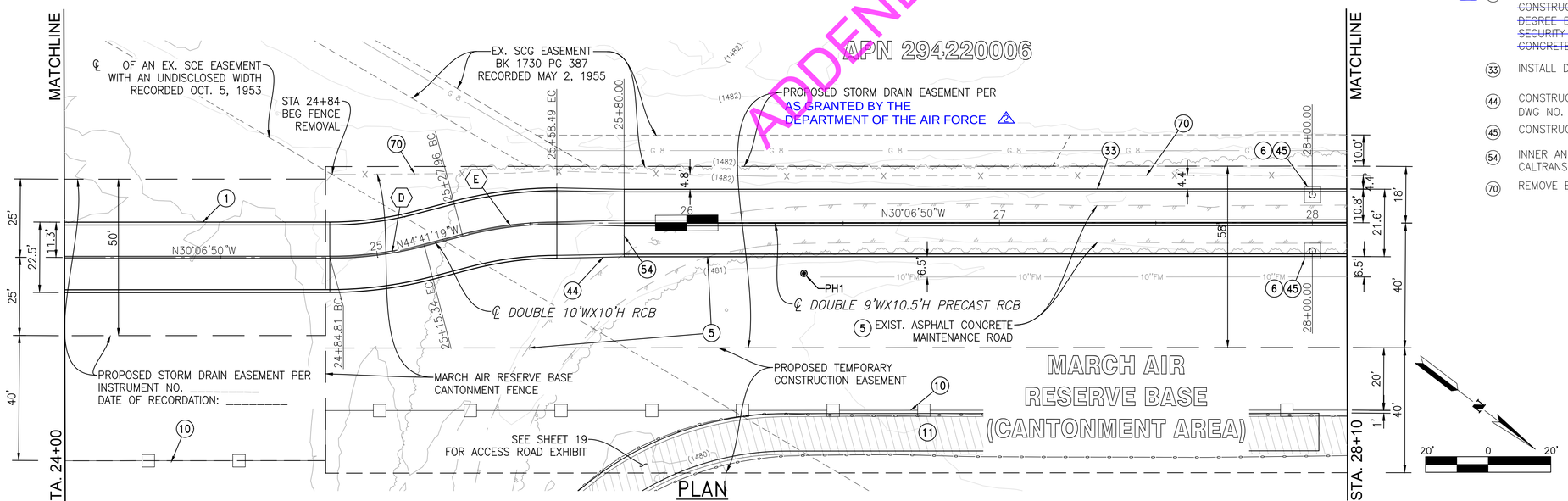
SECTION AT STA. 26+00

TYPICAL FROM STA 24+83.48 TO STA 28+00

10' 0 10'

NOTES:

1. INSTALL DOUBLE 10' W X 10' H RCB PER CALTRANS STD. DWG. D-81 (2018 EDITION)
5. REPLACE EXISTING 12' WIDE ASPHALT CONCRETE ACCESS ROAD IN KIND WITH 3"/6" STRUCTURAL SECTION PER DETAIL ON SHEET 26.
6. INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE
10. CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)
11. CONSTRUCT 12 FEET WIDE 3" THICK CLASS II BASE TEMPORARY MARB ACCESS ROAD, ROAD TO BE REMOVED AND SURFACE RESTORED TO ORIGINAL ELEVATIONS PRIOR TO FINALIZATION OF CONSTRUCTION. SEE SHEET 19 AND 20 FOR ACCESS ROAD EXHIBIT.
2 12. ~~REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC 700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34~~
33. INSTALL DOUBLE 9' W X 10.5' H PRECAST RCB PER DETAIL ON SHEET 30
44. CONSTRUCT MODIFIED TRANSITION STRUCTURE NO. 4 PER RCFC&WCD STD. DWG NO. TS304 (DOUBLE BOX TO DOUBLE BOX), DETAIL ON SHEET 34
45. CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253
54. INNER AND OUTER PRECAST BOX REINFORCEMENT TO BE EXPOSED PER CALTRANS STD. DWG. D83B TO TIE TO CAST-IN-PLACE CONSTRUCTION.
70. REMOVE EXISTING FENCE



CURVE DATA		⑮	⑯
R		120.00'	120.00'
Δ		14°34'29"	14°34'29"
L		30.53'	30.53'
T		15.35'	15.35'
BC		STA. 24+84.81	STA. 25+27.96
EC		STA. 25+15.34	STA. 25+58.49
PI	NORTHING	2258146.207	2258177.002
	EASTING	6258679.120	6258648.658

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/13/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call: U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

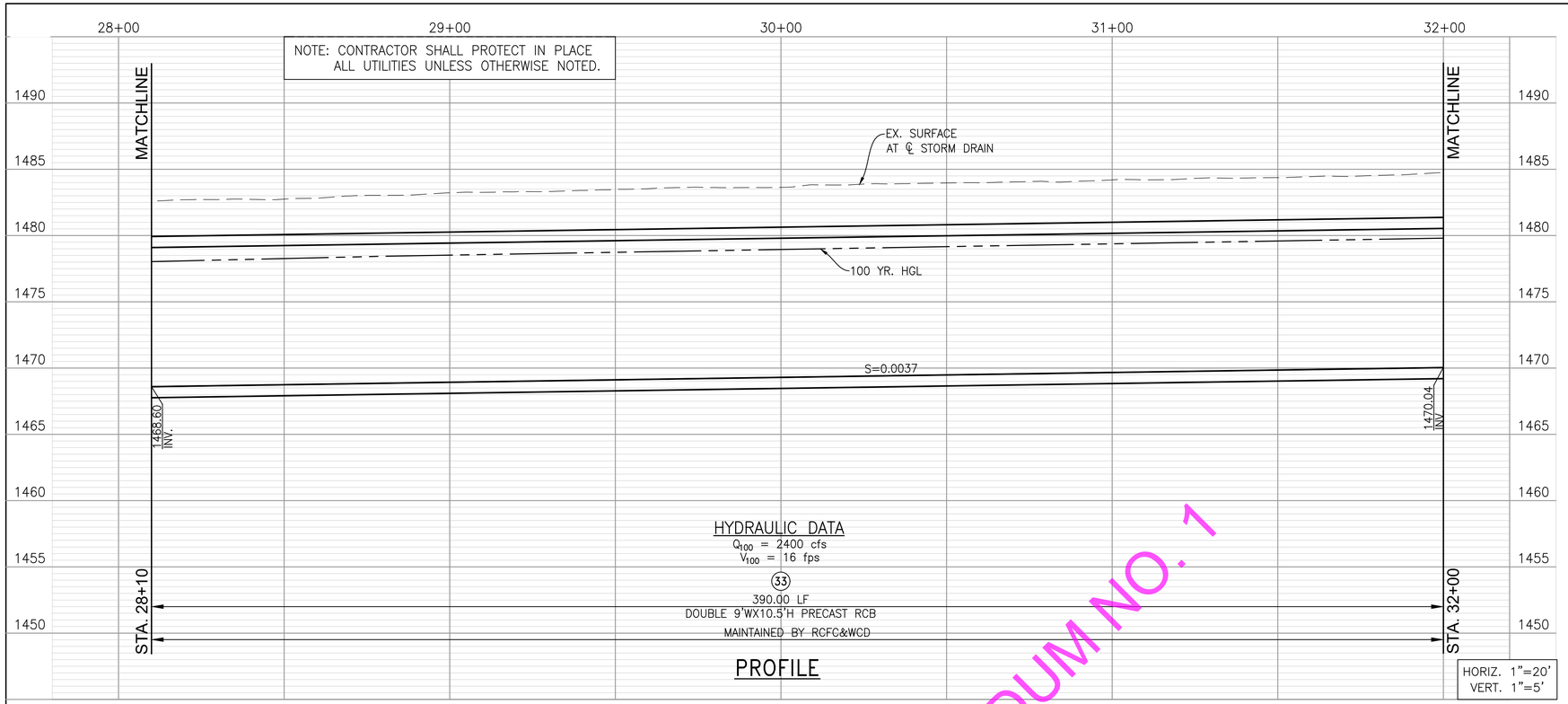
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2	ADD EASEMENT DATA, REMOVE CN 12	E.A.	7/8/25

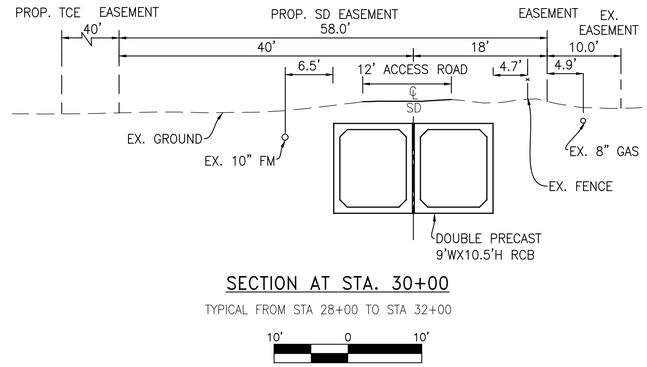
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 24+00.00 TO STA. 28+10.00

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 6 OF 42

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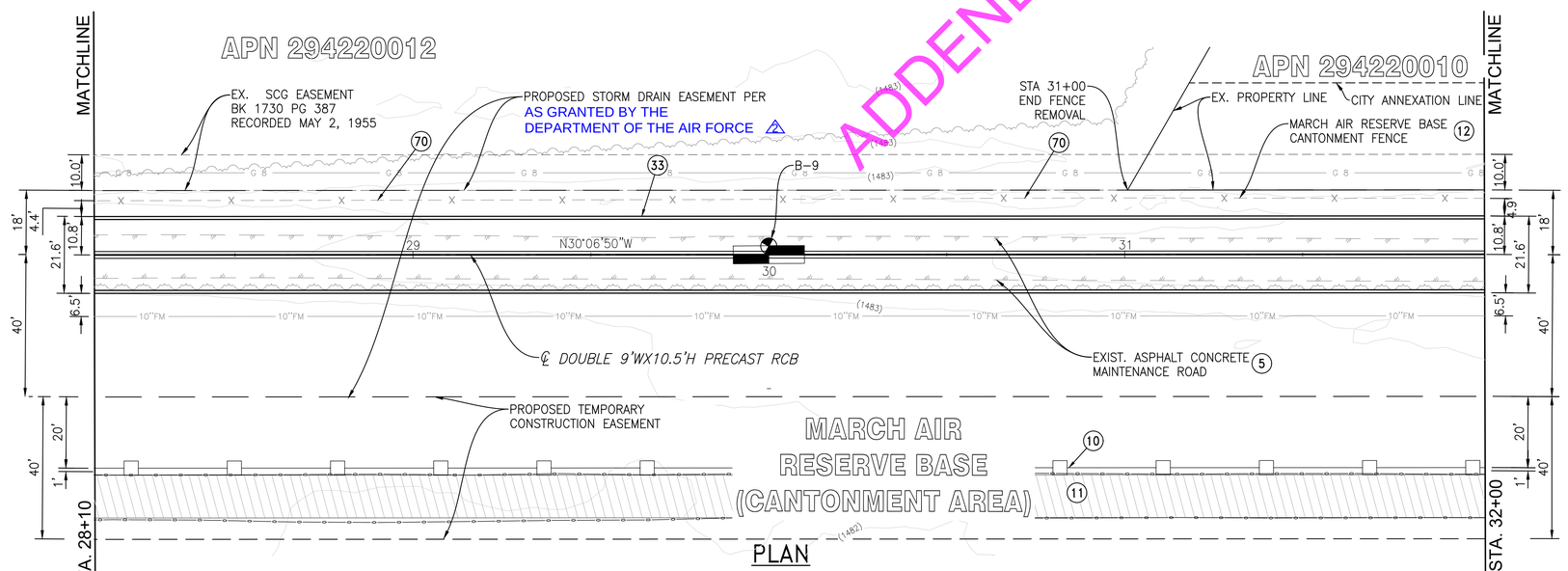




SECTION AT STA. 30+00

TYPICAL FROM STA 28+00 TO STA 32+00

10' 0 10'



ADDENDUM NO. 1

NOTES:

(5) REPLACE EXISTING 12' WIDE ASPHALT CONCRETE ACCESS ROAD IN KIND WITH 3"/6" STRUCTURAL SECTION PER DETAIL ON SHEET 26.

(10) CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

(11) CONSTRUCT 12 FEET WIDE 3" THICK CLASS II BASE TEMPORARY MARB ACCESS ROAD, ROAD TO BE REMOVED AND SURFACE RESTORED TO ORIGINAL ELEVATIONS PRIOR TO FINALIZATION OF CONSTRUCTION. SEE SHEET 19 AND 20 FOR ACCESS ROAD EXHIBIT.

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

(33) INSTALL DOUBLE 9' W X 10.5' H PRECAST RCB PER DETAIL ON SHEET 30

(70) REMOVE EXISTING FENCE

20' 0 20'

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/13/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

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for the location of buried utility lines.
Don't disrupt vital services.
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PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE
(2)	ADD EASEMENT DATA	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

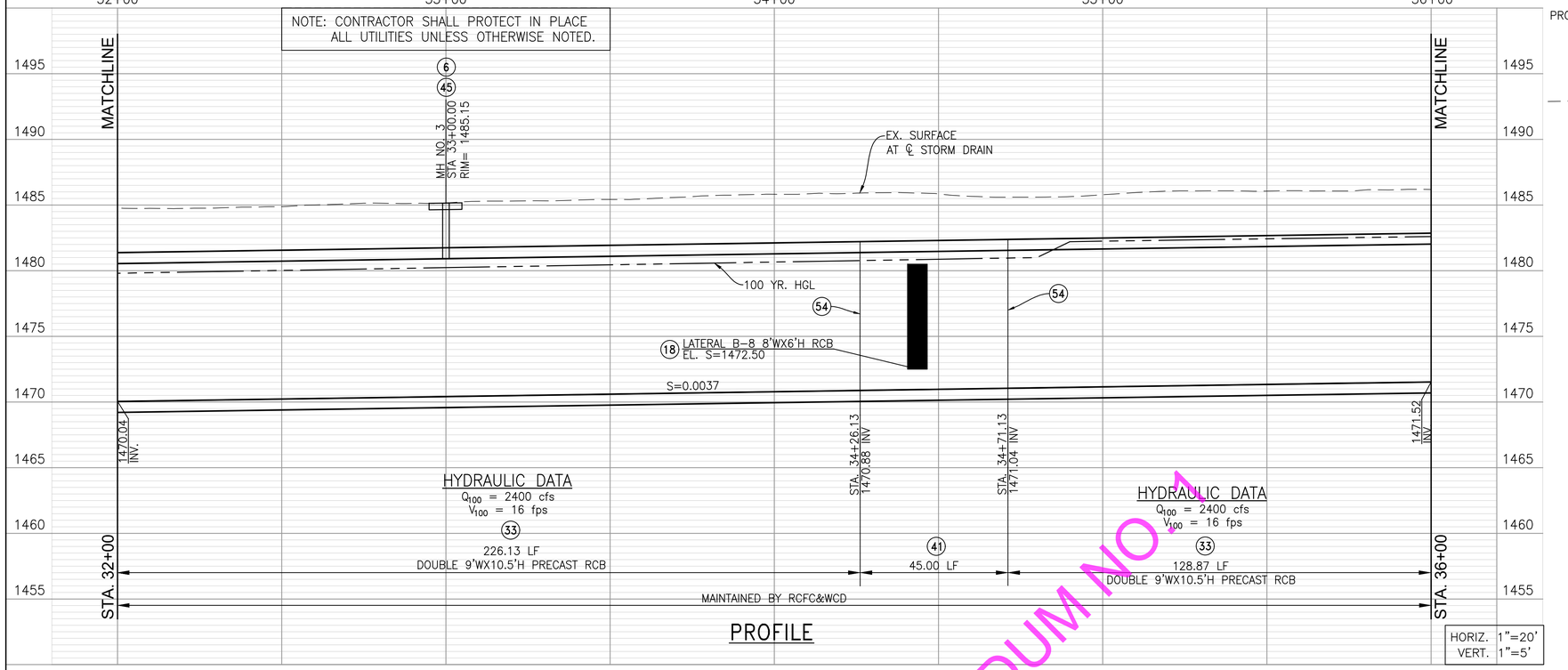
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

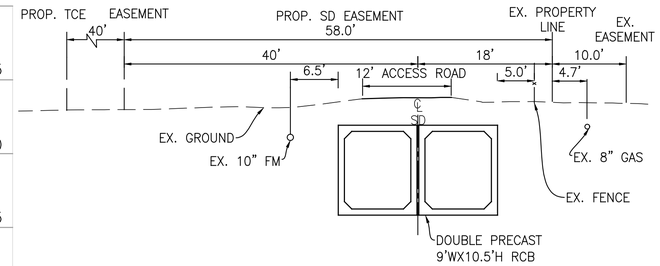
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 28+10.00 TO STA. 32+00.00

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 7 OF 42

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SECTION AT STA. 34+00

TYPICAL FROM STA 32+00 TO STA 36+00

10' 0 10'

MANHOLE / JUNCTION STRUCTURE DATA					
LATERAL	℄ STATION	WALL STATION	STRUCTURE	A	C
LATERAL B-8	34+43.80	34+53.75	JS NO. 5	45°	–

NOTES:

(5) REPLACE EXISTING 12' WIDE ASPHALT CONCRETE ACCESS ROAD IN KIND WITH 3"/6" STRUCTURAL SECTION PER DETAIL ON SHEET 26.

(6) INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE

(10) CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

(11) CONSTRUCT 12 FEET WIDE 3" THICK CLASS II BASE TEMPORARY MARB ACCESS ROAD, ROAD TO BE REMOVED AND SURFACE RESTORED TO ORIGINAL ELEVATIONS PRIOR TO FINALIZATION OF CONSTRUCTION. SEE SHEET 19 AND 20 FOR ACCESS ROAD EXHIBIT.

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

(18) CONSTRUCT JUNCTION STRUCTURE NO. 5 PER RCFC&WCD STD. DWG. NO. JS230 DESIGN CASE BM10P12.

(33) INSTALL DOUBLE 9' W X 10.5' H PRECAST RCB PER DETAIL ON SHEET 30

(35) CONSTRUCT CONCRETE BULKHEAD PER RCFC STD. DWG. M816

(41) CONSTRUCT DOUBLE 9' W X 10.5' H RCB PER CALTRANS STD. DWG. D-81 WITH 1.92' INNER WALL THICKNESS MATCHING PRECAST FACILITIES. REINFORCEMENT AND DIMENSIONS PER DETAIL H ON SHEET 34 (10'HX10'W RCB – 2018 EDITION).

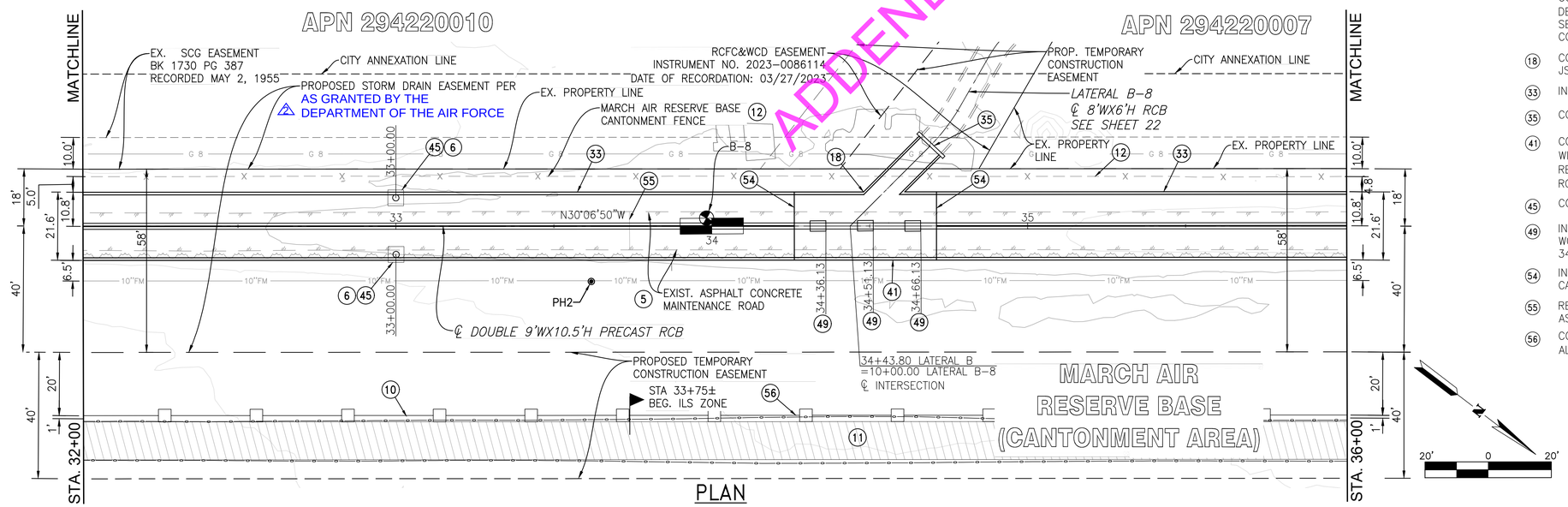
(45) CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253

(49) INSTALL FLOW EQUALIZING WINDOW PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION STD. DWG. 382-2 MODIFIED PER DETAIL ON SHEET 34

(54) INNER AND OUTER PRECAST BOX REINFORCEMENT TO BE EXPOSED PER CALTRANS STD. DWG. D83B TO TIE TO CAST-IN-PLACE CONSTRUCTION.

(55) REPAINT 6" WHITE LINE AT INSTRUMENT LANDING SYSTEM (ILS) BOUNDARY AS DIRECTED BY ENGINEER

(56) CONSTRUCT TEMPORARY NON-METALLIC FENCE PER DETAIL ON SHEET 37 ALONG INSTRUMENT LANDING SYSTEM (ILS) BOUNDARY



PLAN

ADDENDUM NO. 1

REVISIONS			
2 ADD EASEMENT DATA	E.A.	7/8/25	
REF.	DESCRIPTION	APPR.	DATE

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256

JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call: U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines. Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

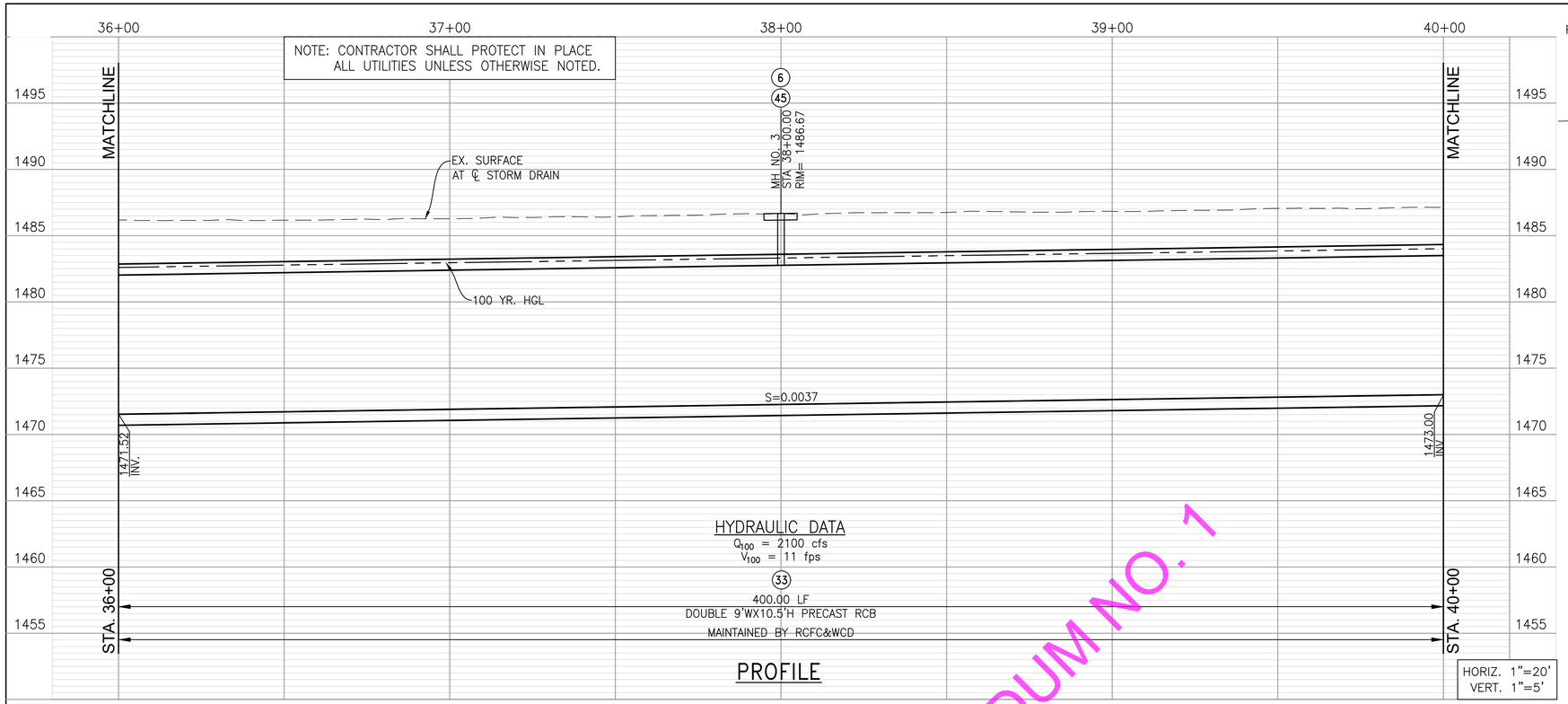
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 32+00.00 TO STA. 36+00.00

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 8 OF 42

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NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.



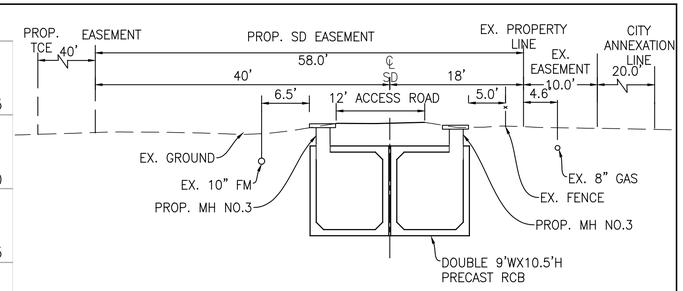
HYDRAULIC DATA

Q_{100} = 2100 cfs
V_{100} = 11 fps

(33) 400.00 LF DOUBLE 9'WX10.5'H PRECAST RCB MAINTAINED BY RCFC&WCD

PROFILE

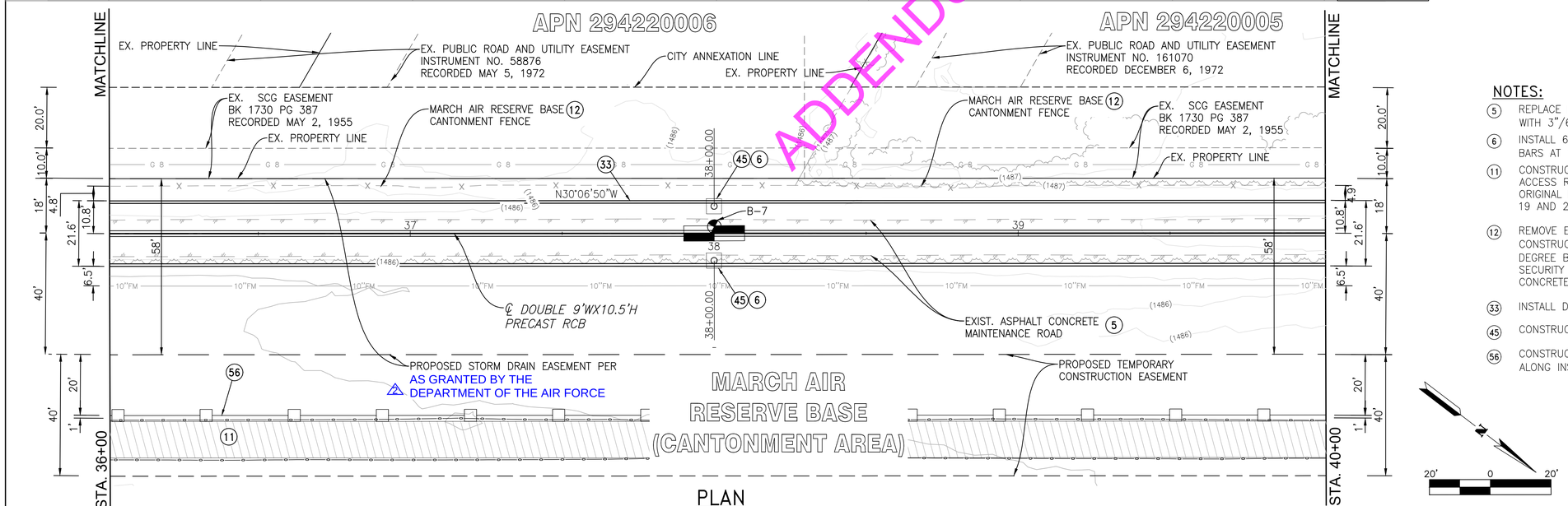
HORIZ. 1"=20'
VERT. 1"=5'



SECTION AT STA. 38+00

TYPICAL FROM STA 36+00 TO STA 40+00

10' 0 10'



PLAN

ADDENDUM NO. 1

NOTES:

(5) REPLACE EXISTING 12' WIDE ASPHALT CONCRETE ACCESS ROAD IN KIND WITH 3"/6" STRUCTURAL SECTION PER DETAIL ON SHEET 26.

(6) INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE

(11) CONSTRUCT 12 FEET WIDE 3" THICK CLASS II BASE TEMPORARY MARB ACCESS ROAD, ROAD TO BE REMOVED AND SURFACE RESTORED TO ORIGINAL ELEVATIONS PRIOR TO FINALIZATION OF CONSTRUCTION. SEE SHEET 19 AND 20 FOR ACCESS ROAD EXHIBIT.

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

(33) INSTALL DOUBLE 9' W X 10.5' H PRECAST RCB PER DETAIL ON SHEET 30

(45) CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253

(56) CONSTRUCT TEMPORARY NON-METALLIC FENCE PER DETAIL ON SHEET 37 ALONG INSTRUMENT LANDING SYSTEM (ILS) BOUNDARY

20' 0 20'

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call: U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE
2	ADD EASEMENT DATA	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

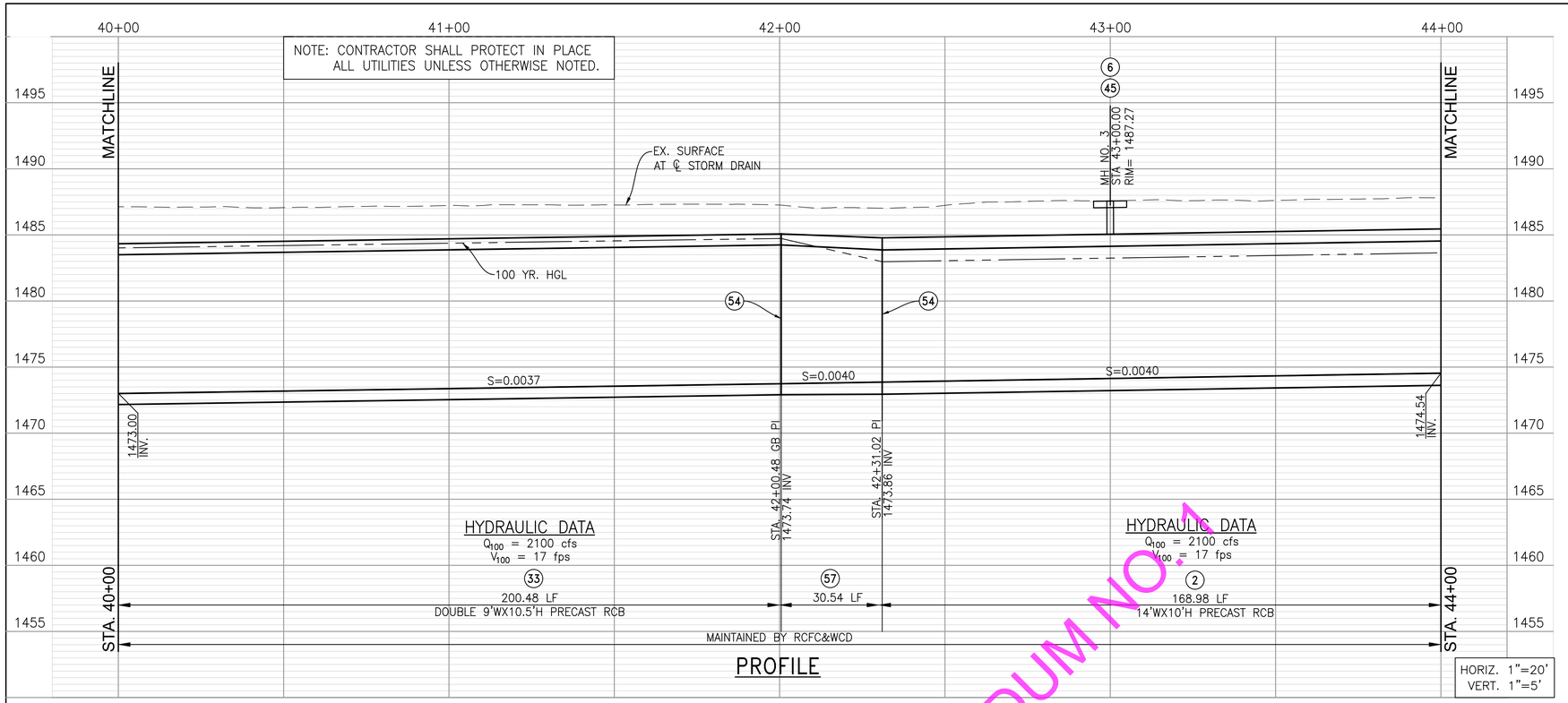
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

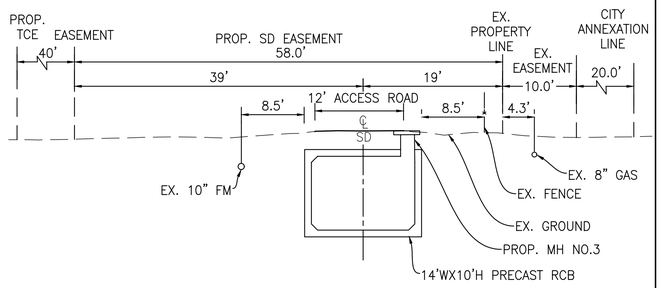
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 36+00.00 TO STA. 40+00.00

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 9 OF 42

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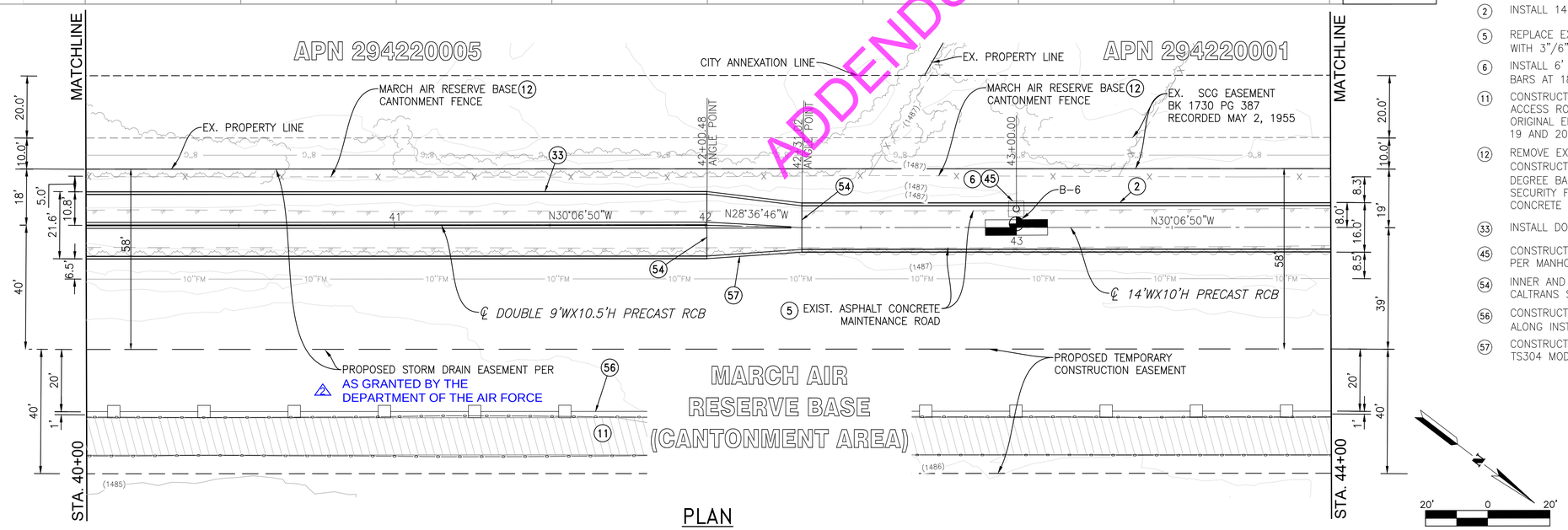




SECTION AT STA. 43+00

TYPICAL FROM STA 40+00 TO STA 44+00

10' 0 10'



PLAN

NOTES:

2. INSTALL 14' W X 10' H PRECAST RCB PER DETAIL ON SHEET 30
5. REPLACE EXISTING 12' WIDE ASPHALT CONCRETE ACCESS ROAD IN KIND WITH 3"/6" STRUCTURAL SECTION PER DETAIL ON SHEET 26.
6. INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE
11. CONSTRUCT 12 FEET WIDE 3" THICK CLASS II BASE TEMPORARY MARB ACCESS ROAD, ROAD TO BE REMOVED AND SURFACE RESTORED TO ORIGINAL ELEVATIONS PRIOR TO FINALIZATION OF CONSTRUCTION. SEE SHEET 19 AND 20 FOR ACCESS ROAD EXHIBIT.
12. REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34
33. INSTALL DOUBLE 9' W X 10.5' H PRECAST RCB PER DETAIL ON SHEET 30
45. CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253 MODIFIED PER MANHOLE OPENING DETAIL ON SHEET 30
54. INNER AND OUTER PRECAST BOX REINFORCEMENT TO BE EXPOSED PER CALTRANS STD. DWG. D83B TO TIE TO CAST-IN-PLACE CONSTRUCTION.
56. CONSTRUCT TEMPORARY NON-METALLIC FENCE PER DETAIL ON SHEET 37 ALONG INSTRUMENT LANDING SYSTEM (ILS) BOUNDARY
57. CONSTRUCT TRANSITION STRUCTURE NO. 4 PER RCFC&WCD STD. DWG NO. TS304 MODIFIED PER DETAIL ON SHEET 34.

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE
2	ADD EASEMENT DATA	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

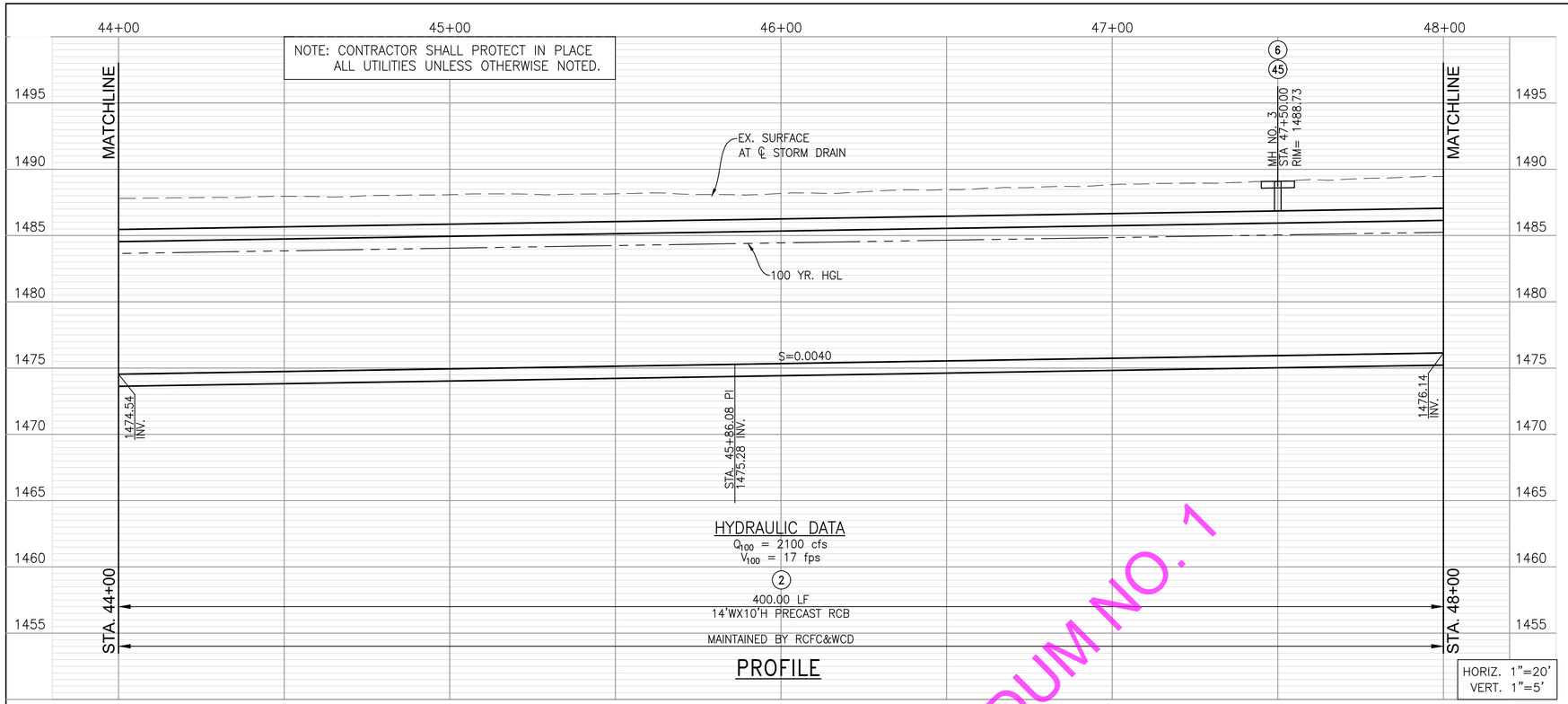
APPROVED BY: DATE: 11/20/23

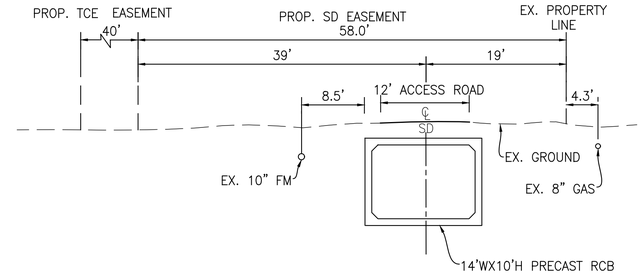
PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 40+00.00 TO STA. 44+00.00

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	10 OF 42

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NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.

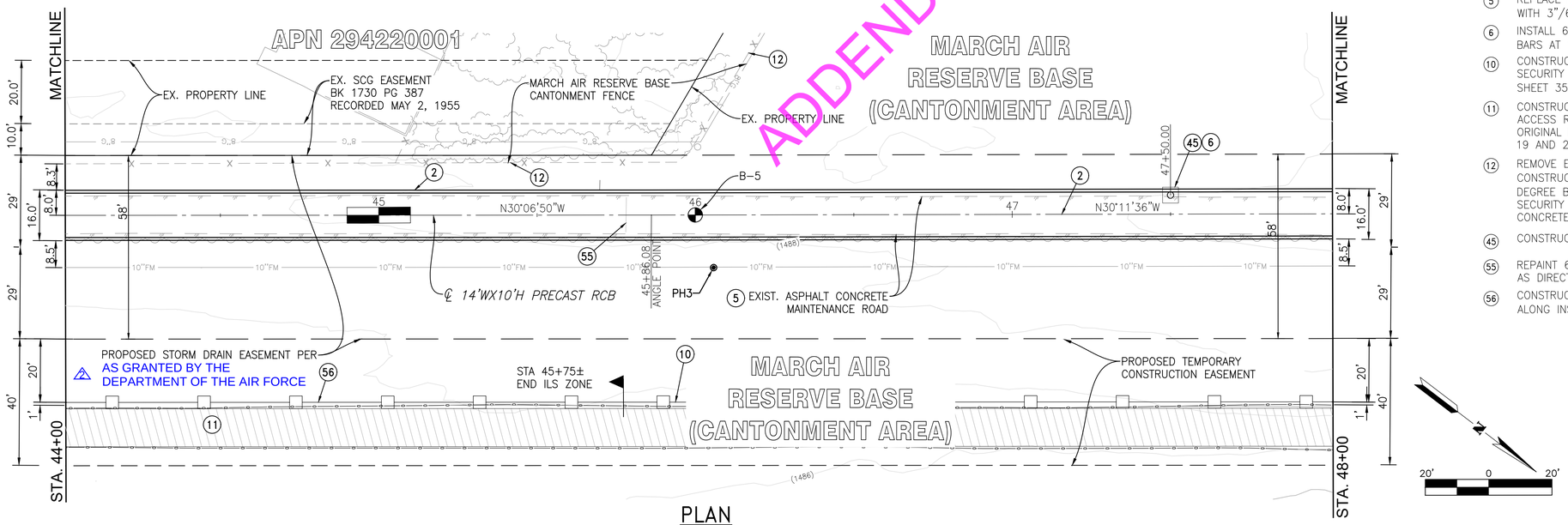




SECTION AT STA. 45+00

TYPICAL FROM STA 44+00 TO STA 45+86.08

10' 0 10'



PLAN

20' 0 20'

NOTES:

(2) INSTALL 14' W X 10' H PRECAST RCB PER DETAIL ON SHEET 30

(5) REPLACE EXISTING 12' WIDE ASPHALT CONCRETE ACCESS ROAD IN KIND WITH 3"/6" STRUCTURAL SECTION PER DETAIL ON SHEET 26.

(6) INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE

(10) CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

(11) CONSTRUCT 12 FEET WIDE 3" THICK CLASS II BASE TEMPORARY MARB ACCESS ROAD, ROAD TO BE REMOVED AND SURFACE RESTORED TO ORIGINAL ELEVATIONS PRIOR TO FINALIZATION OF CONSTRUCTION. SEE SHEET 19 AND 20 FOR ACCESS ROAD EXHIBIT.

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

(45) CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253

(55) REPAINT 6" WHITE LINE AT INSTRUMENT LANDING SYSTEM (ILS) BOUNDARY AS DIRECTED BY ENGINEER

(56) CONSTRUCT TEMPORARY NON-METALLIC FENCE PER DETAIL ON SHEET 37 ALONG INSTRUMENT LANDING SYSTEM (ILS) BOUNDARY

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P/B NUMBER:	238474

Don't Dig...Until You Call: U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE
2	ADD EASEMENT DATA	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

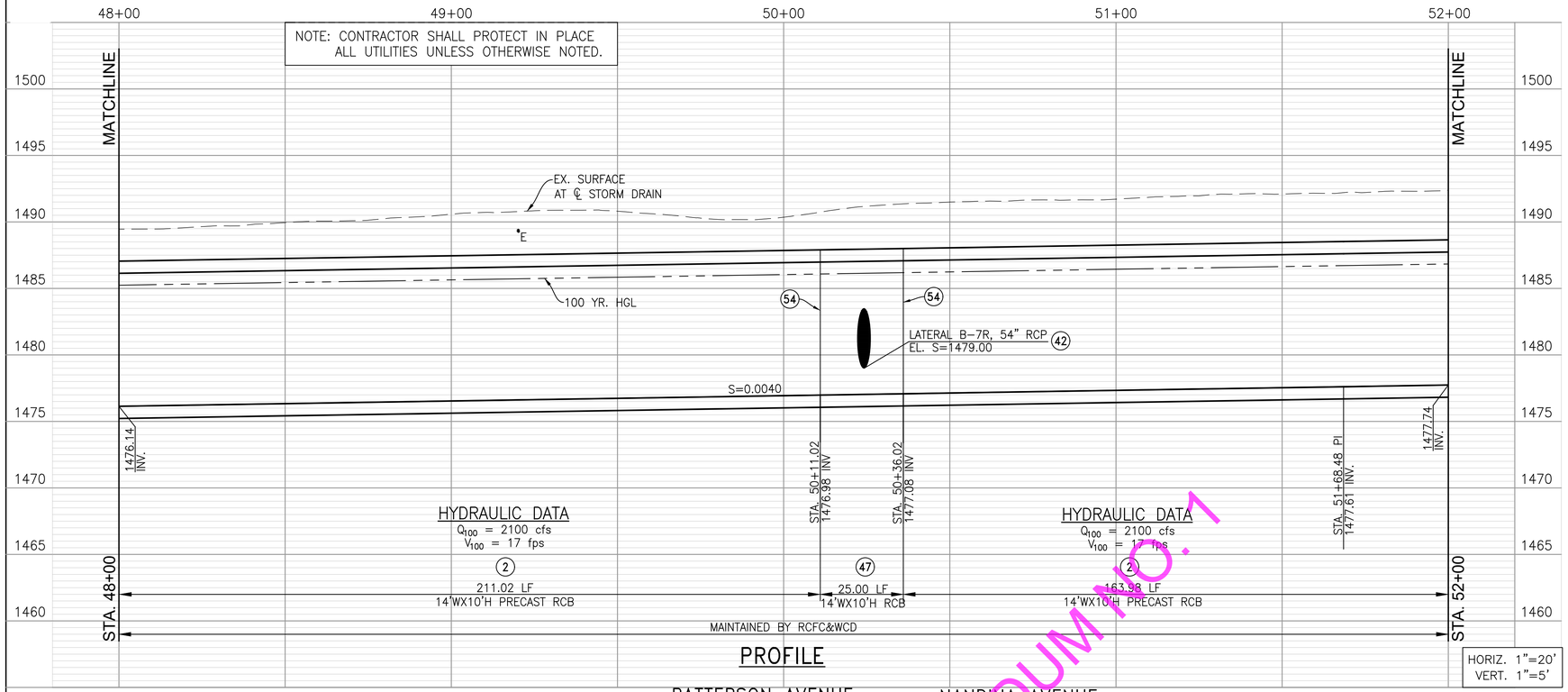
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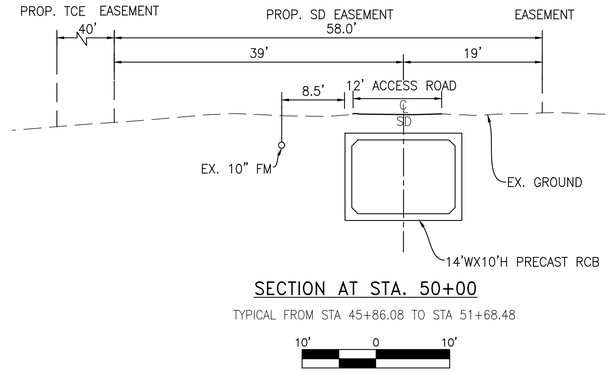
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 44+00.00 TO STA. 48+00.00

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	11 OF 42

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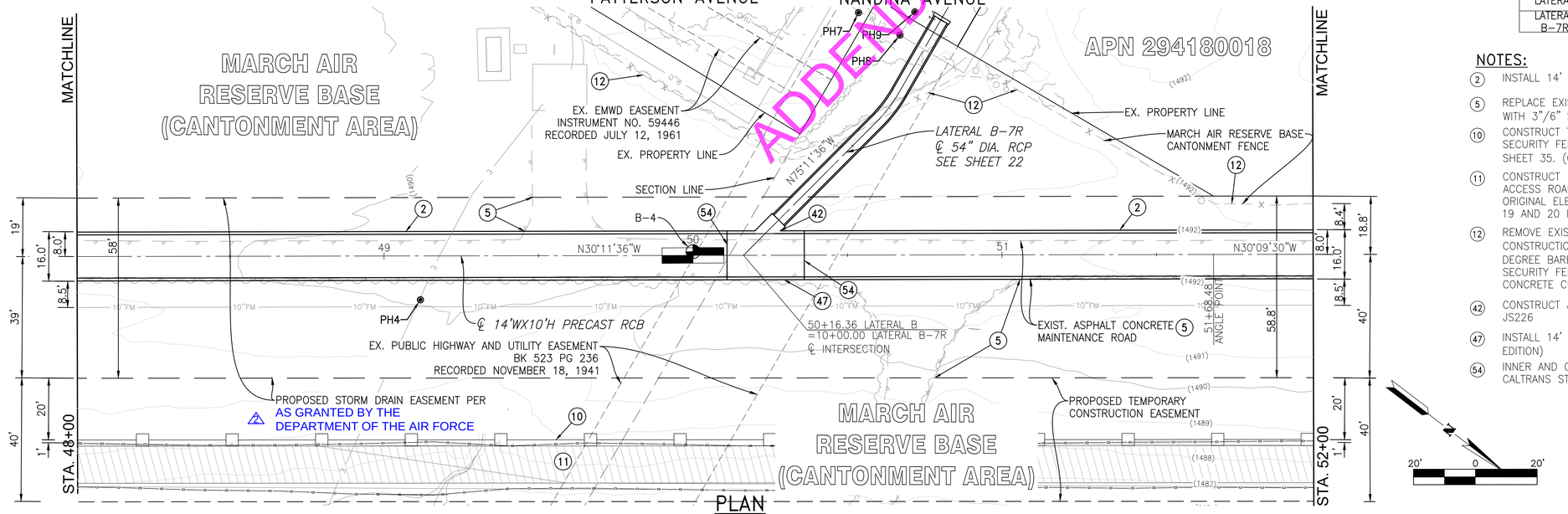


SECTION AT STA. 50+00

TYPICAL FROM STA 45+86.08 TO STA 51+68.48

10' 0 10'

MANHOLE / JUNCTION STRUCTURE DATA					
LATERAL	℄ STATION	WALL STATION	STRUCTURE	A	C
LATERAL B-7R	50+16.36	50+23.36	JS NO. 1	45°	16.2'



PLAN

ADDENDUM NO. 1

NOTES:

(2) INSTALL 14' W X 10' H PRECAST RCB PER DETAIL ON SHEET 30

(5) REPLACE EXISTING 12' WIDE ASPHALT CONCRETE ACCESS ROAD IN KIND WITH 3"/6" STRUCTURAL SECTION PER DETAIL ON SHEET 26.

(10) CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

(11) CONSTRUCT 12 FEET WIDE 3" THICK CLASS II BASE TEMPORARY MARB ACCESS ROAD, ROAD TO BE REMOVED AND SURFACE RESTORED TO ORIGINAL ELEVATIONS PRIOR TO FINALIZATION OF CONSTRUCTION. SEE SHEET 19 AND 20 FOR ACCESS ROAD EXHIBIT.

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

(42) CONSTRUCT JUNCTION STRUCTURE NO. 1 PER RCFC&WCD STD. DWG. NO. JS226

(47) INSTALL 14' W X 10' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

(54) INNER AND OUTER PRECAST BOX REINFORCEMENT TO BE EXPOSED PER CALTRANS STD. DWG. D83B TO TIE TO CAST-IN-PLACE CONSTRUCTION.

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE, CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
PB NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free:
1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
2	ADD EASEMENT DATA	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

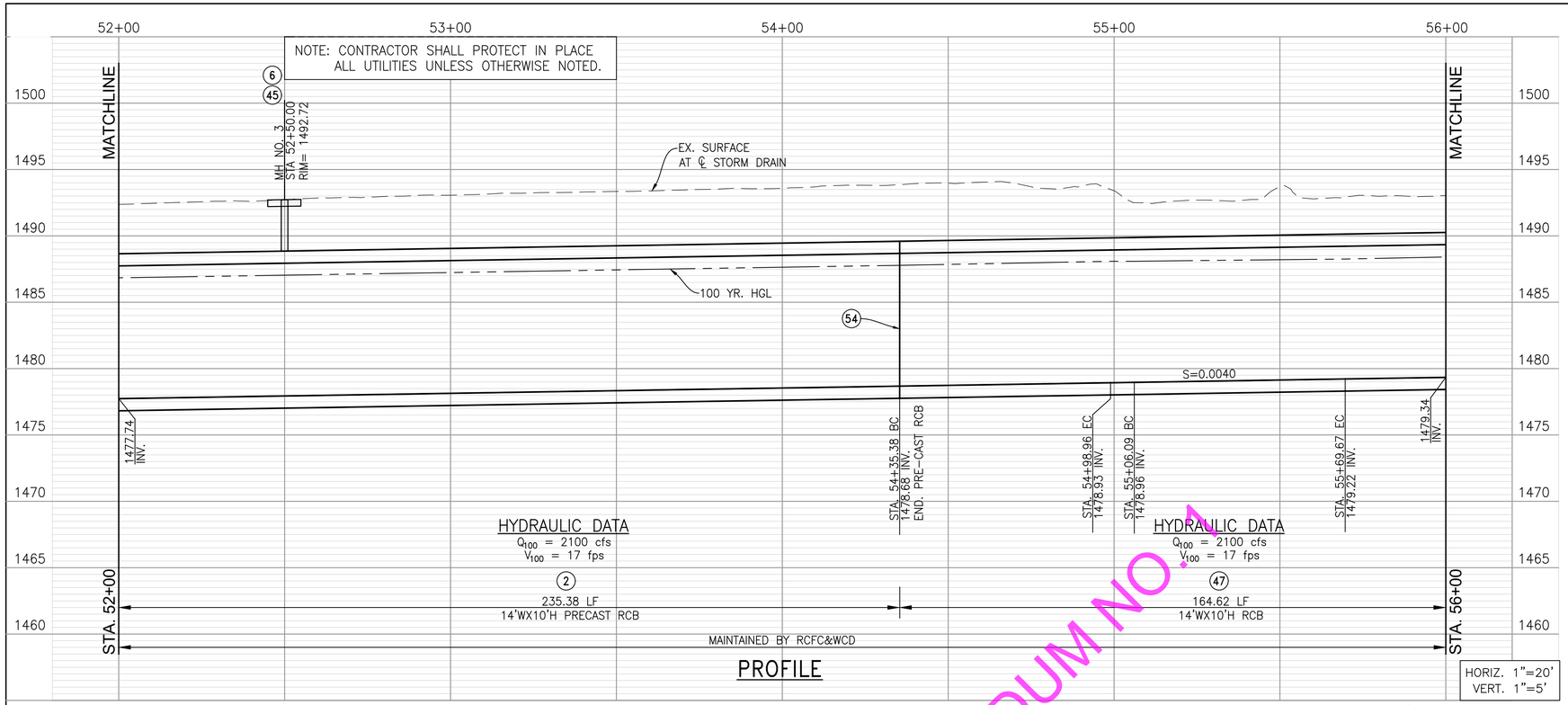
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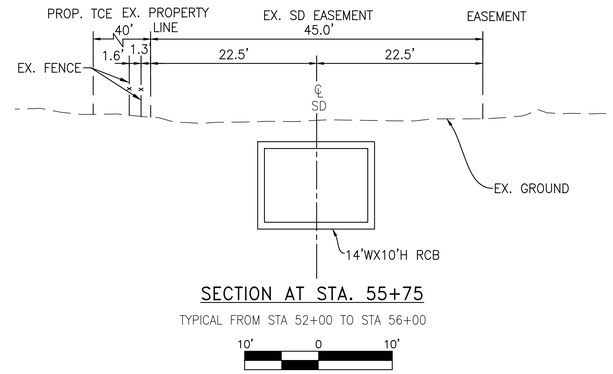
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 48+00.00 TO STA. 52+00.00

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	12 OF 42

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SECTION AT STA. 55+75

TYPICAL FROM STA 52+00 TO STA 56+00

10' 0 10'

NOTES:

(2) INSTALL 14' W X 10' H PRECAST RCB PER DETAIL ON SHEET 30

(5) REPLACE EXISTING 12' WIDE ASPHALT CONCRETE ACCESS ROAD IN KIND WITH 3"/6" STRUCTURAL SECTION PER DETAIL ON SHEET 26.

(6) INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE

(10) CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

(11) CONSTRUCT 12 FEET WIDE 3" THICK CLASS II BASE TEMPORARY MARB ACCESS ROAD, ROAD TO BE REMOVED AND SURFACE RESTORED TO ORIGINAL ELEVATIONS PRIOR TO FINALIZATION OF CONSTRUCTION. SEE SHEET 19 AND 20 FOR ACCESS ROAD EXHIBIT.

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

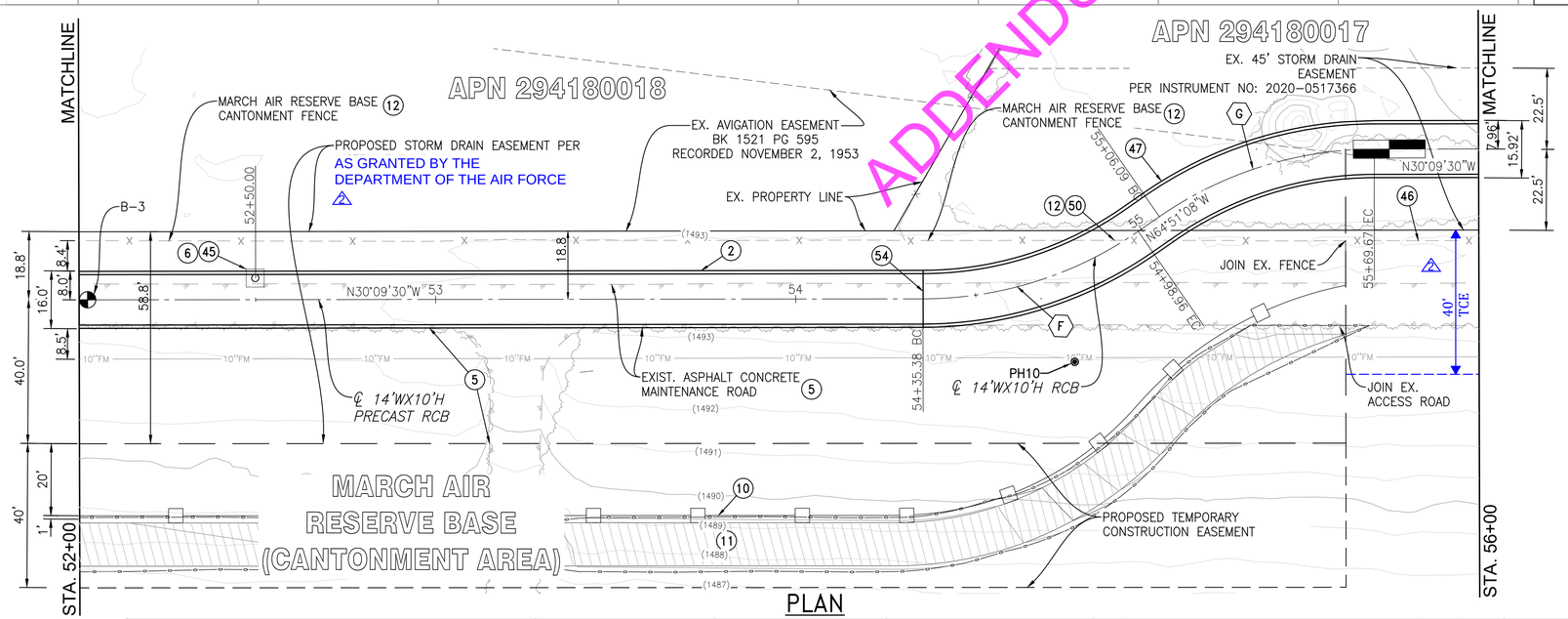
(45) CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253

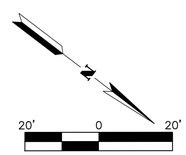
(46) EXISTING FENCE TO BE PROTECTED IN PLACE

(47) INSTALL 14' W X 10' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

(50) AIRFORCE SECURITY FENCE POLES OVER THE BOX PER DETAIL ON SHEET 34

(54) INNER AND OUTER PRECAST BOX REINFORCEMENT TO BE EXPOSED PER CALTRANS STD. DWG. D83B TO TIE TO CAST-IN-PLACE CONSTRUCTION.





CURVE DATA		(F)	(G)
R		105.00'	105.00'
Δ		34°41'38"	34°41'38"
L		63.58'	63.58'
T		32.80'	32.80'
BC		STA. 54+35.38	STA. 55+06.09
EC		STA. 54+98.96	STA. 55+69.67
PI	NORTHING	2260707.111	2260738.020
	EASTING	6257180.905	6257115.064

PLAN

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call: U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	DESCRIPTION	APPR.	DATE
2	ADD TCE, EASEMENT DATA	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL: DATE: 11/20/23

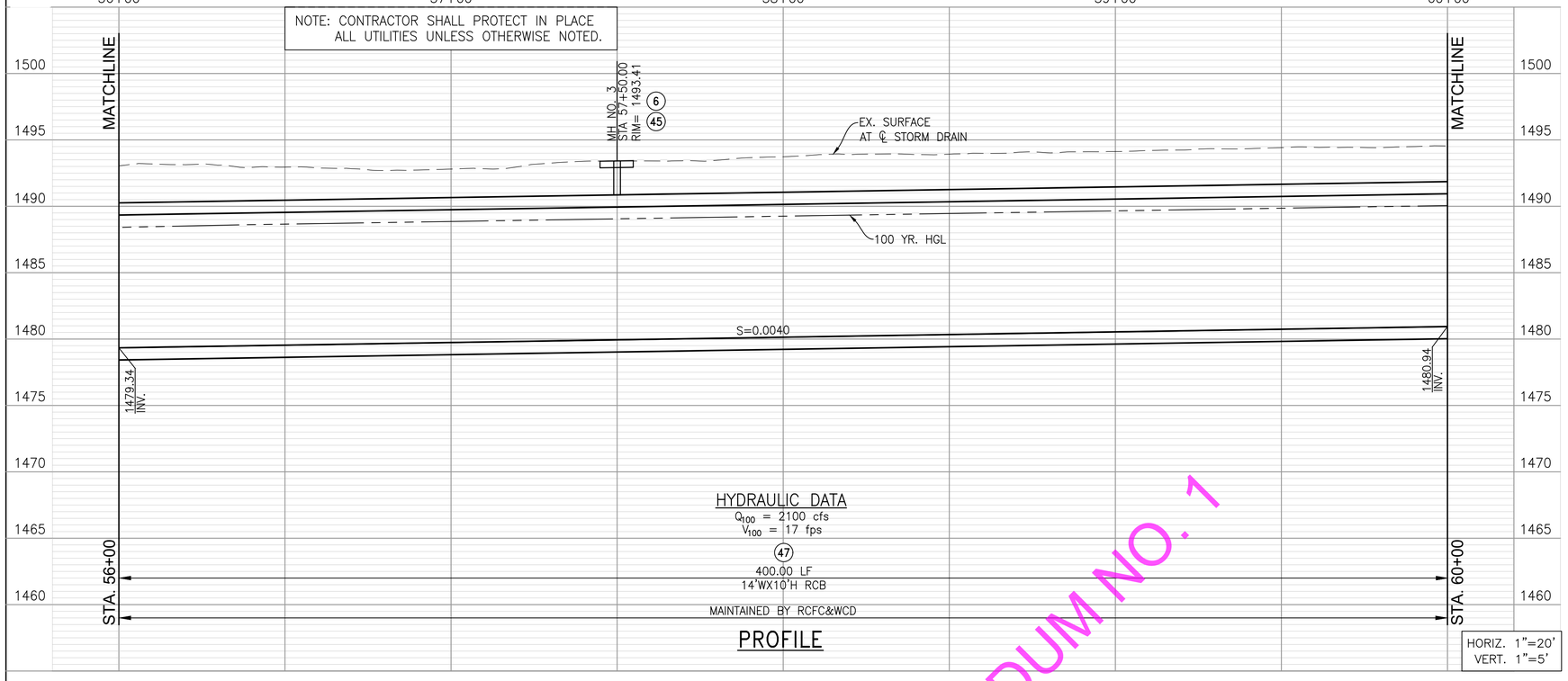
APPROVED BY: DATE: 11/20/23

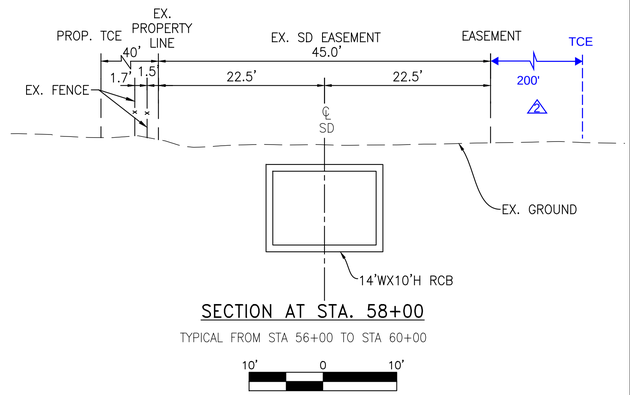
PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 52+00.00 TO STA. 56+00.00

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 13 OF 42

H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B SD PLAN 10-18.DWG 11/8/2023 10:56:51 AM

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.

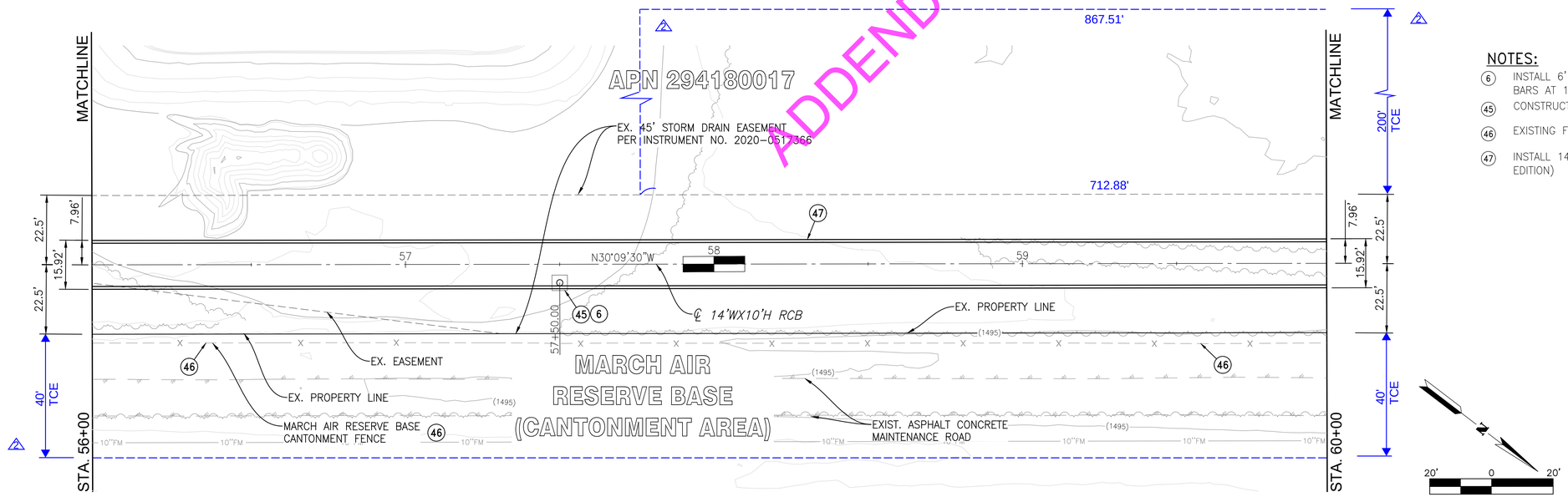




SECTION AT STA. 58+00

TYPICAL FROM STA 56+00 TO STA 60+00

10' 0 10'



PLAN

NOTES:

6. INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE
45. CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253
46. EXISTING FENCE TO BE PROTECTED IN PLACE
47. INSTALL 14' W X 10' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE
2	ADD TCE	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

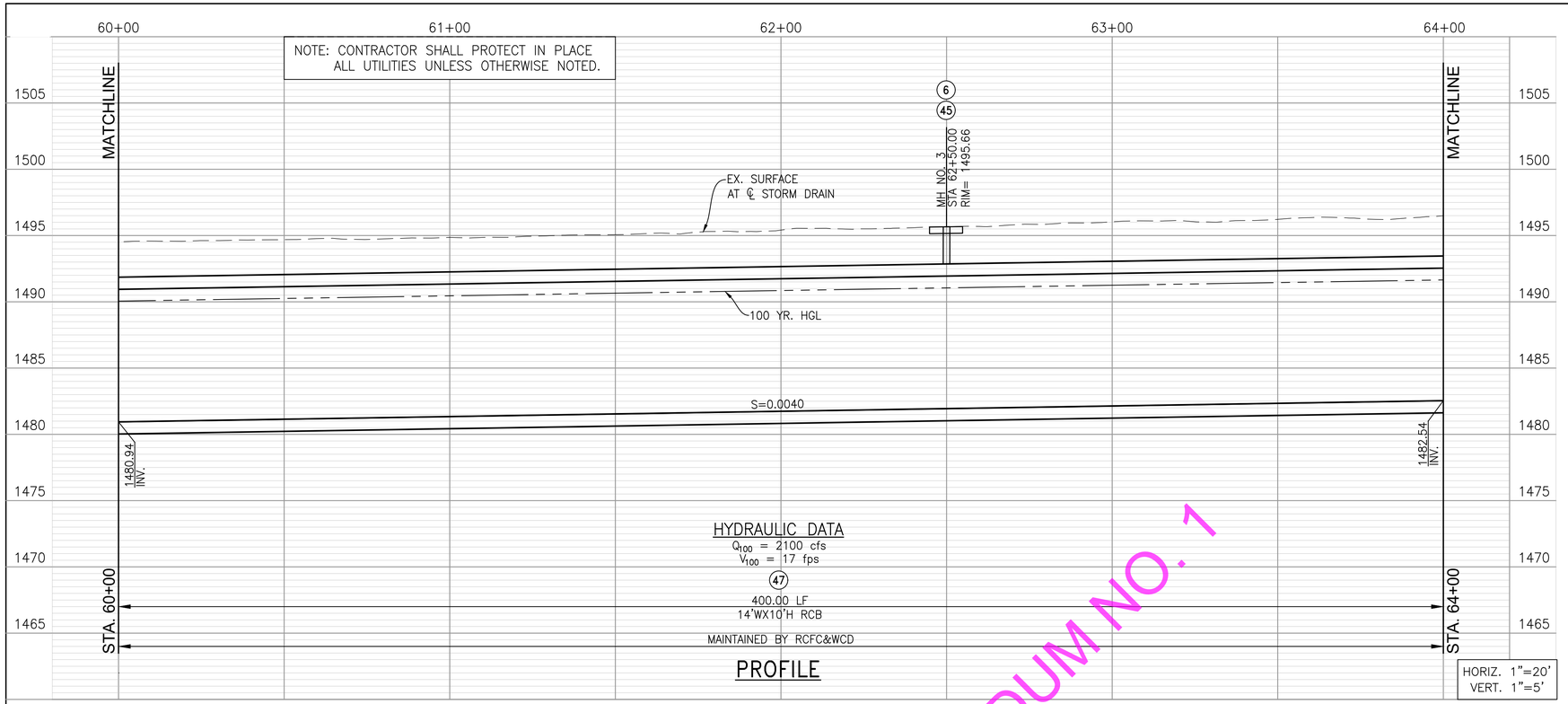
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 56+00.00 TO STA. 60+00.00

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	14 OF 42

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NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.

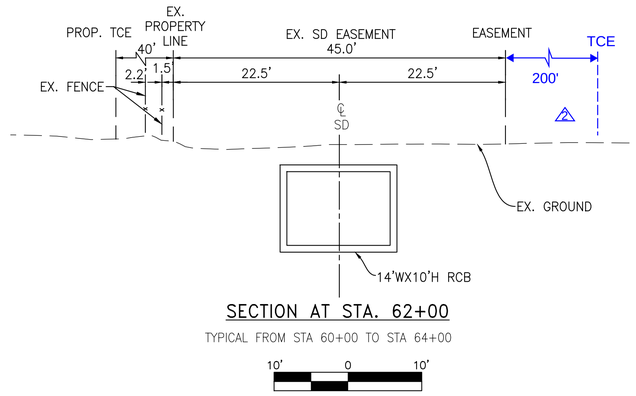


HYDRAULIC DATA

Q_{100} = 2100 cfs
V_{100} = 17 fps

PROFILE

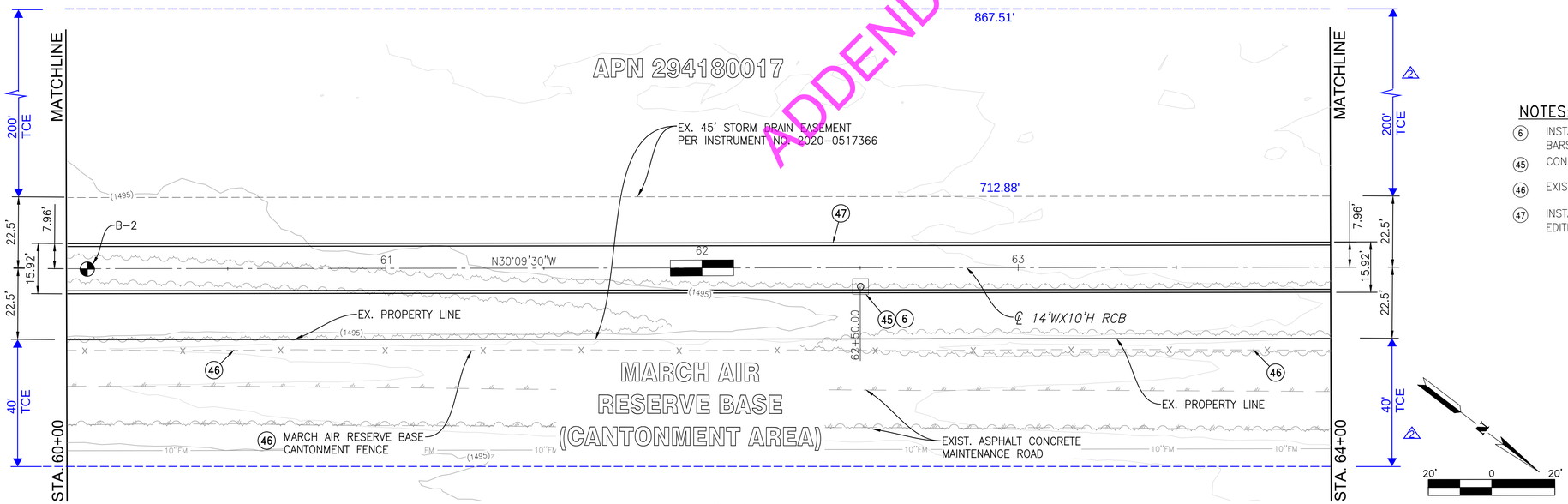
HORIZ. 1"=20'
VERT. 1"=5'



SECTION AT STA. 62+00

TYPICAL FROM STA 60+00 TO STA 64+00

10' 0 10'



PLAN

ADDENDUM NO. 1

NOTES:

(6) INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE

(45) CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253

(46) EXISTING FENCE TO BE PROTECTED IN PLACE

(47) INSTALL 14' W X 10' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P/B NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE
2	ADD TCE	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

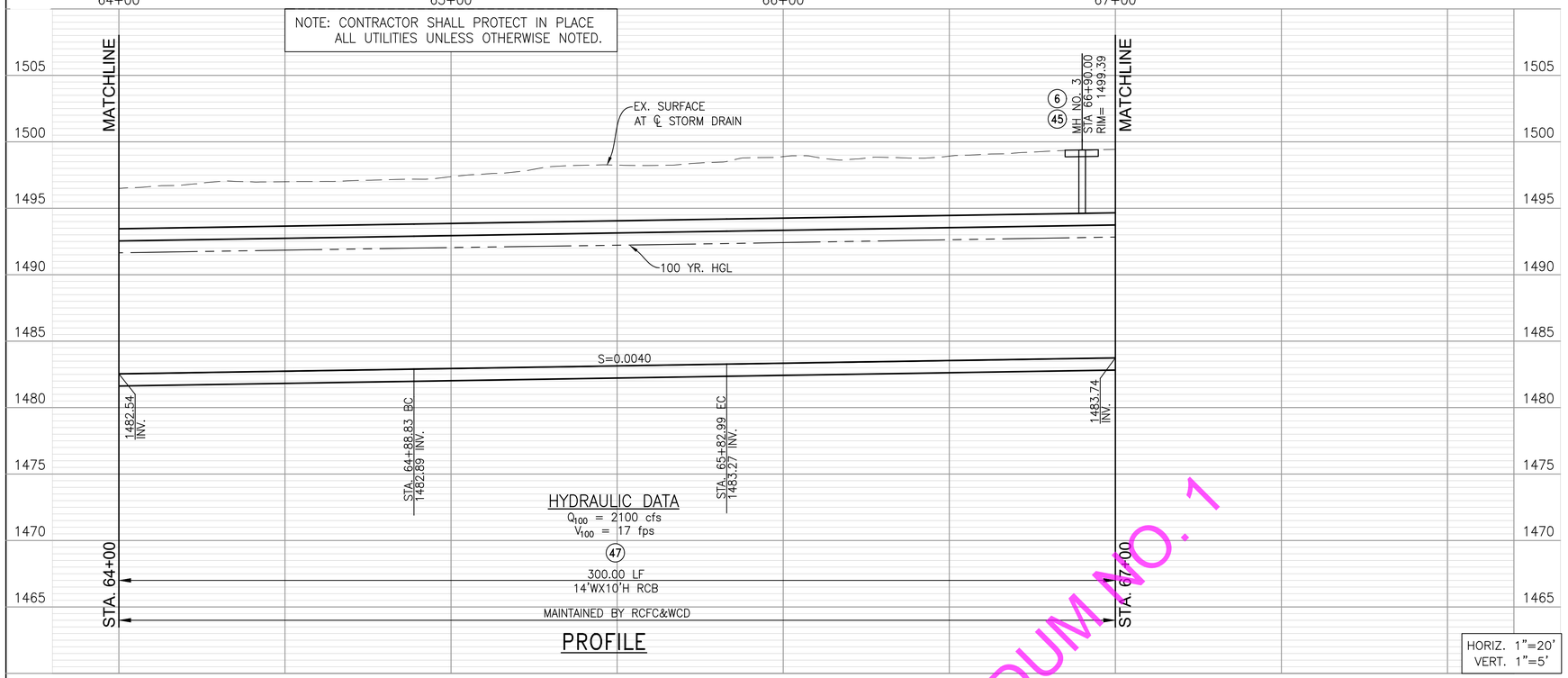
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 60+00.00 TO STA. 64+00.00

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	15 OF 42

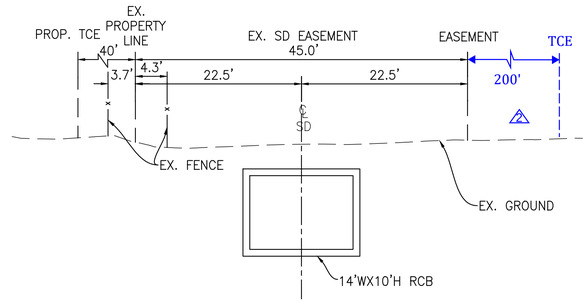
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NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.



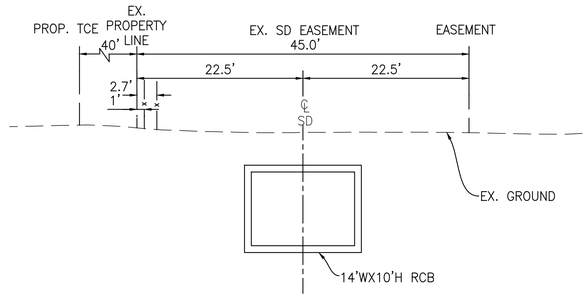
PROFILE

HORIZ. 1"=20'
VERT. 1"=5'



SECTION AT STA. 64+50

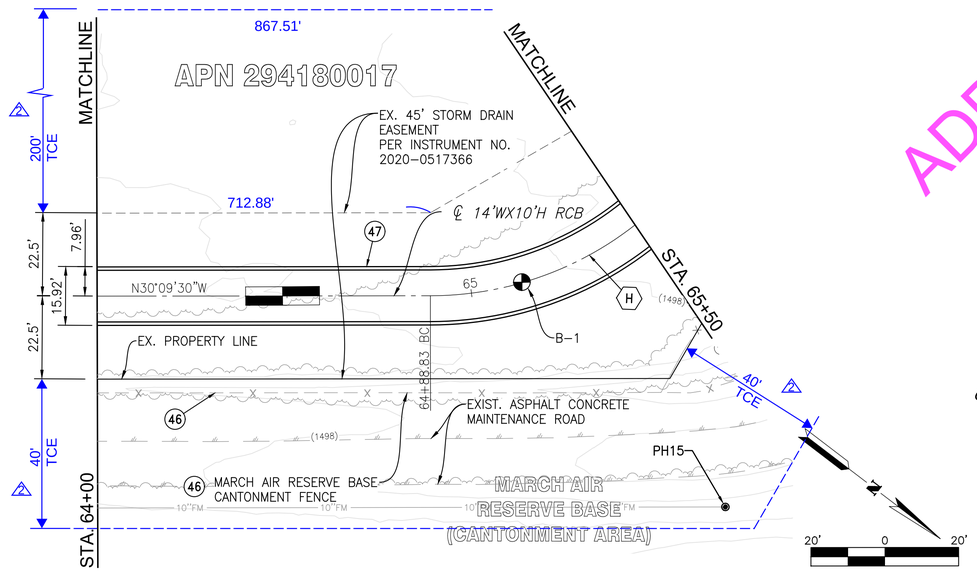
TYPICAL FROM STA 64+00 TO STA 65+50

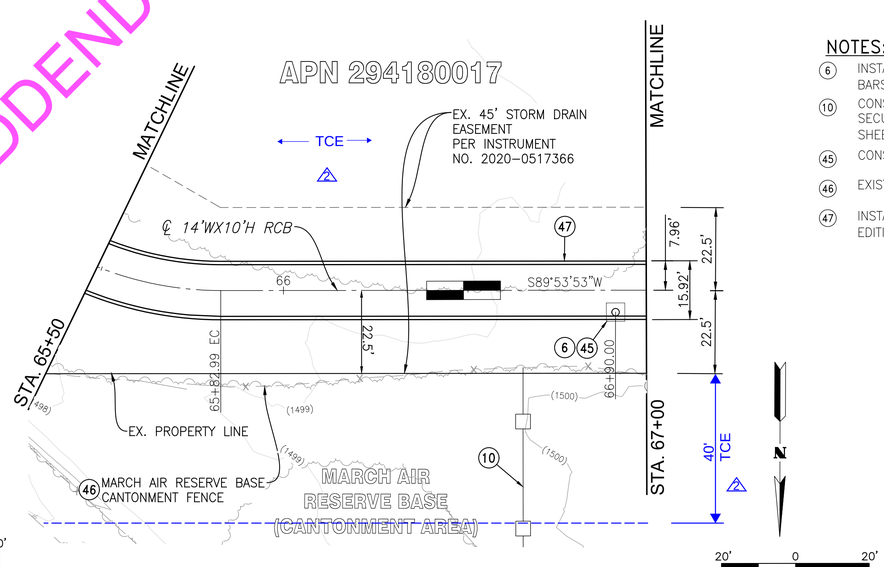


SECTION AT STA. 66+50

TYPICAL FROM STA 65+50 TO STA 67+00

10' 0 10'





PLAN

ADDENDUM NO. 1

NOTES:

(6) INSTALL 6' X 6' X 0.5' THICK CONCRETE PAD REINFORCED WITH NO. 4 BARS AT 18" EACH WAY CENTERED ON MANHOLE

(10) CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

(45) CONSTRUCT MANHOLE NO. 3 PER RCFCWCD STD. DWG. MH253

(46) EXISTING FENCE TO BE PROTECTED IN PLACE

(47) INSTALL 14' W X 10' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

CURVE DATA	(H)
R	90.00'
Δ	59°56'37"
L	94.16'
T	51.90'
BC	STA. 64+88.83
EC	STA. 65+82.99
PI NORTHING	2261605.997
PI EASTING	6256610.731

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P/B NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	DESCRIPTION	APPR.	DATE
2	ADD TCE	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

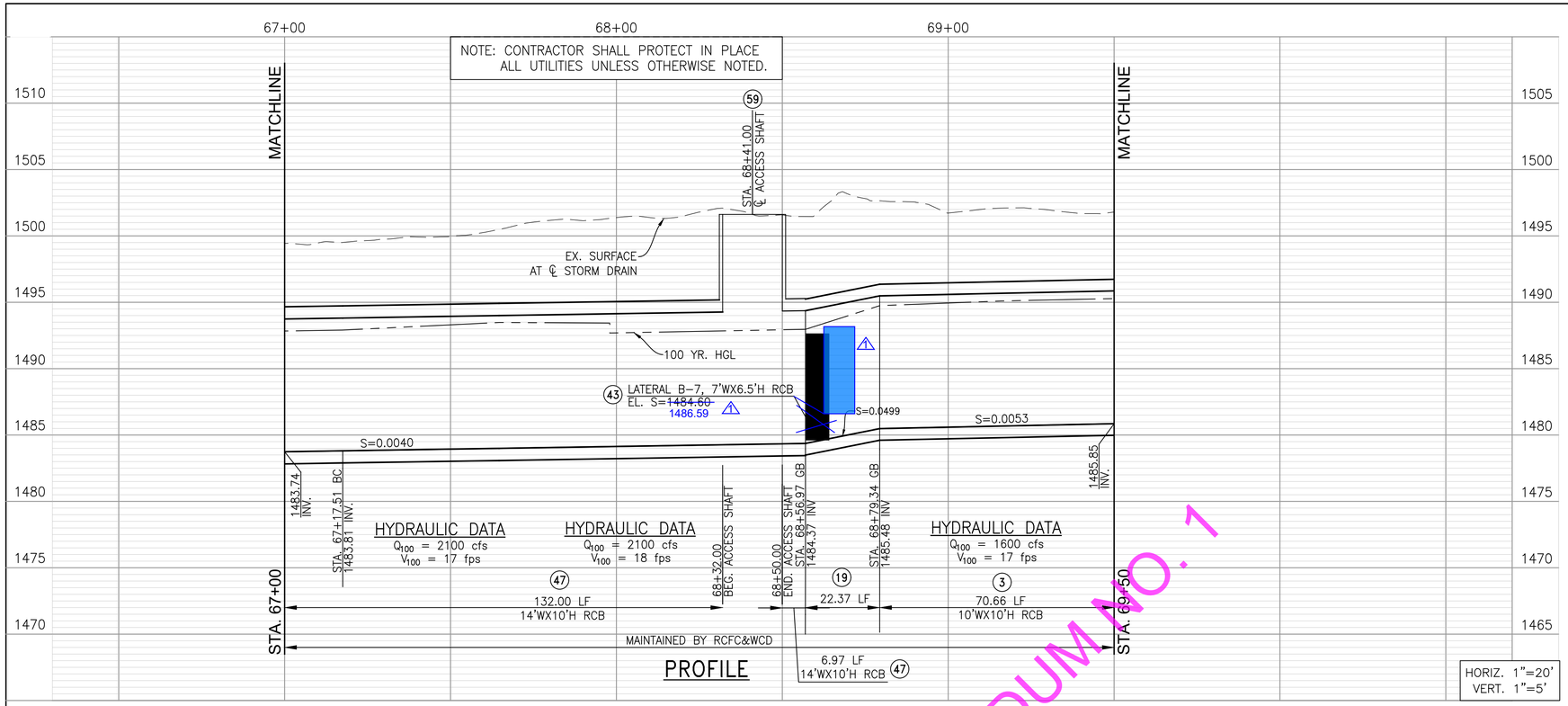
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

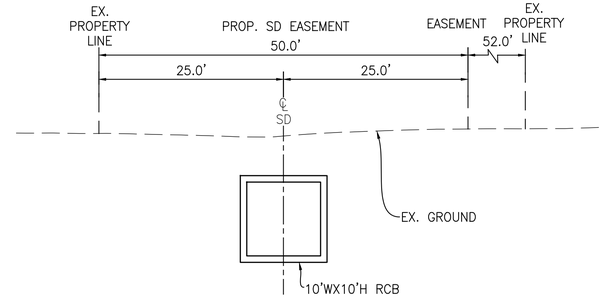
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 64+00.00 TO STA. 67+00.00

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 16 OF 42

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SECTION AT STA. 69+00

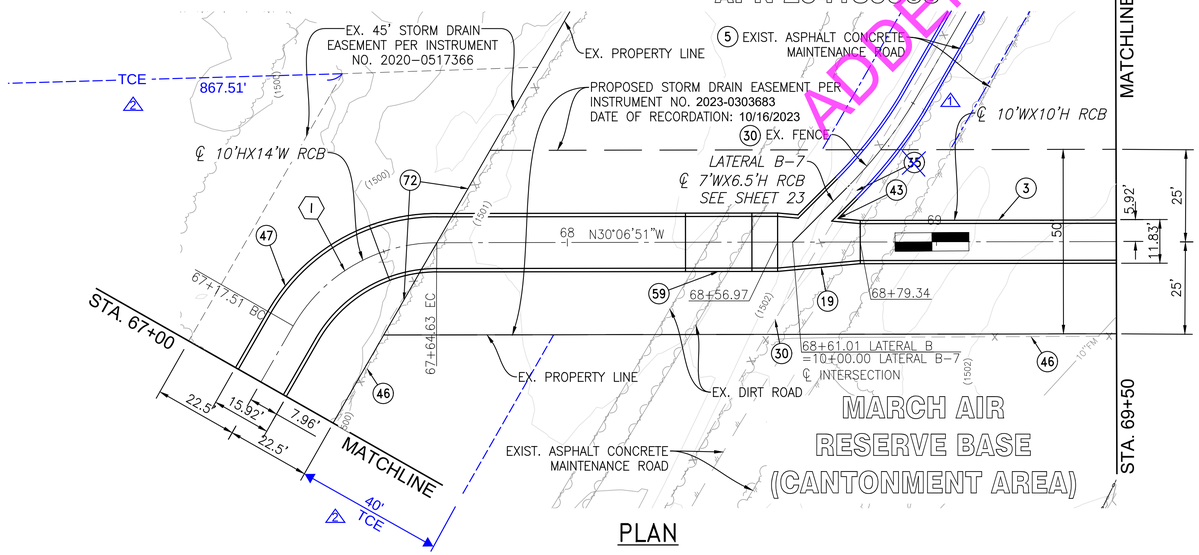
TYPICAL FROM STA 67+50 TO STA 69+50

10' 0 10'

MANHOLE / JUNCTION STRUCTURE DATA					
LATERAL	℄ STATION	WALL STATION	STRUCTURE	A	C
LATERAL B-7	68+61.01	68+67.11	JS NO. 5	45°	–

NOTES:

3. INSTALL 10' W X 10' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)
5. REPLACE EXISTING 12' WIDE ASPHALT CONCRETE ACCESS ROAD IN KIND WITH 3"/6" STRUCTURAL SECTION PER DETAIL ON SHEET 26.
19. CONSTRUCT TRANSITION STRUCTURE NO. 2 PER RCFC&WCD STD. DWG NO. TS302 (SINGLE BOX TO SINGLE BOX).
30. REMOVE AND REPLACE EXISTING FENCE AND BOLLARDS IN KIND
35. CONSTRUCT CONCRETE BULKHEAD PER RCFC STD. DWG. M816
43. CONSTRUCT JUNCTION STRUCTURE NO. 5 PER RCFC&WCD STD. DWG. NO. JS230 DESIGN CASE BM14P10
46. EXISTING FENCE TO BE PROTECTED IN PLACE
47. INSTALL 14' W X 10' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)
59. CONSTRUCT ACCESS SHAFT PER STRUCTURAL DETAILS ON SHEET 36 AND 37. TOP OF ACCESS MANHOLE ELEV.=1501.62'
72. REMOVE AND REPLACE TUBULAR STEEL FENCE IN KIND WITHIN EASEMENT



PLAN

CURVE DATA	①
R	45.00'
Δ	59°59'17"
L	47.11'
T	25.97'
BC	STA. 67+17.51
EC	STA. 67+64.63
PI NORTHING	2261605.619
PI EASTING	6256398.337

MJPA

MJPA CONTRACT ENGINEER — DATE: NOVEMBER 21, 2023

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P/B NUMBER:	238474

Don't Dig...Until You Call: U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK: Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	DESCRIPTION	APPR.	DATE
1	LATERAL B-7 STUBOUT EXTENSION - SH. 17&23	E.A.	2/8/24
2	ADD TCE	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

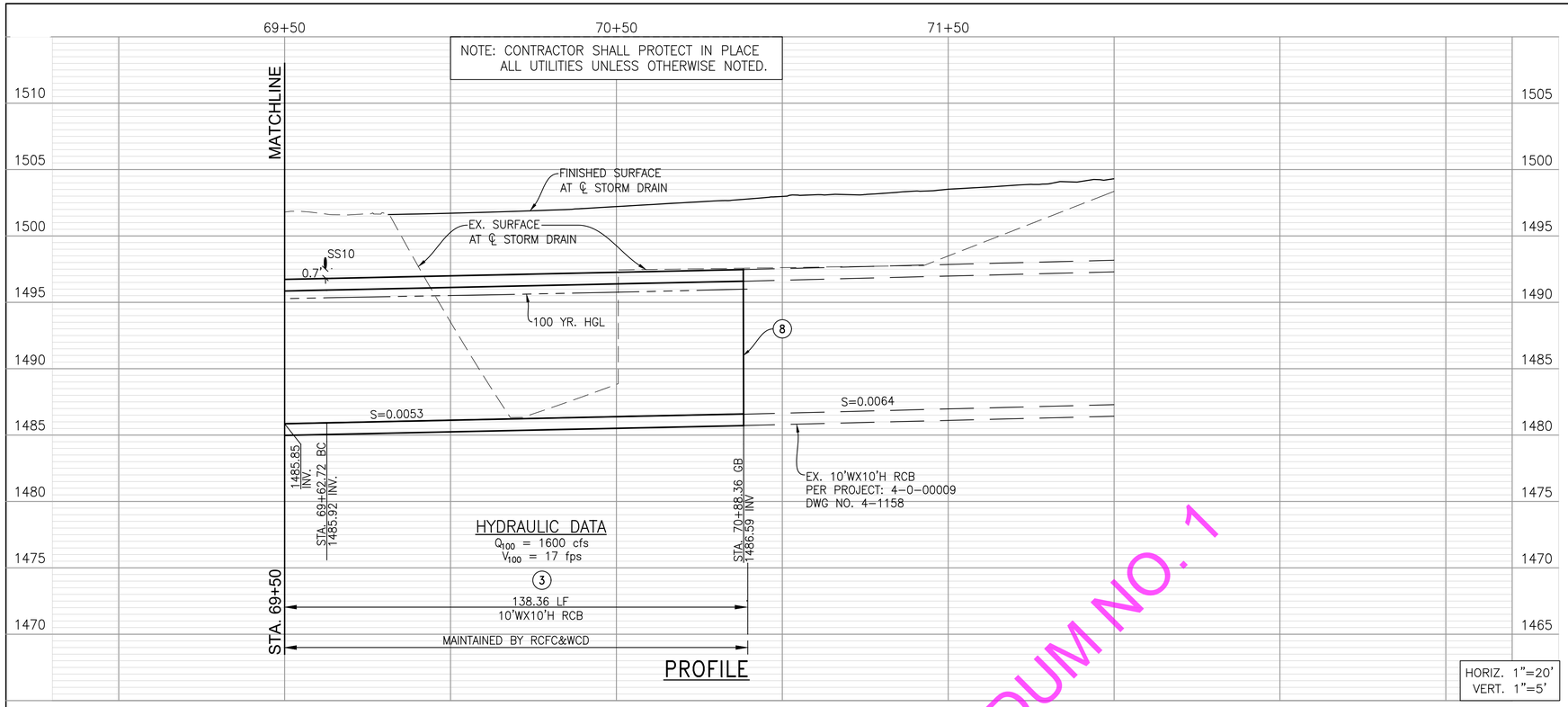
APPROVED BY: DATE: 11/20/23

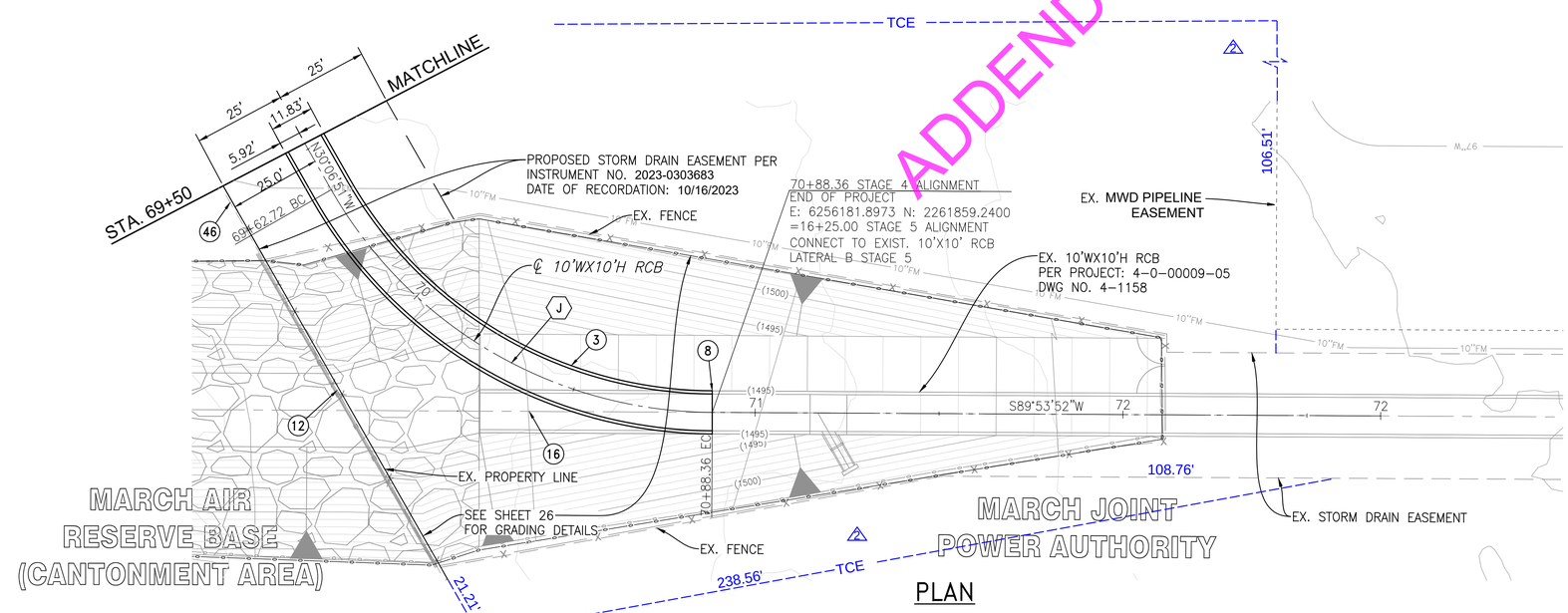
PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 67+00.00 TO STA. 69+50.00

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	17 OF 42

ADDENDUM NO. 1

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NOTES:

(3) INSTALL 10' W X 10' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

(8) JOIN EXISTING STRUCTURE WITH TRANSVERSE EXPANSION JOINT DETAIL ON SHEET 30. AND PER RCFC&WCD STD. DWG. CH329 NOTE 6

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

(16) REMOVE EXISTING CALTRANS LATERAL B STAGE 5 10' W X 10' H RCB

(46) EXISTING FENCE TO BE PROTECTED IN PLACE

CURVE DATA	(J)
R	120.00'
Δ	59°59'18"
L	125.64'
T	69.27'
BC	STA. 69+62.72
EC	STA. 70+88.36
PI NORTHING	2261859.364
PI EASTING	6256251.163

N

20' 0 20'

MJPA

MJPA CONTRACT ENGINEER — DATE: NOVEMBER 21, 2023

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P/B NUMBER:	238474

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for the location of buried utility lines.
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PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	DESCRIPTION	APPR.	DATE
2	ADD TCE	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

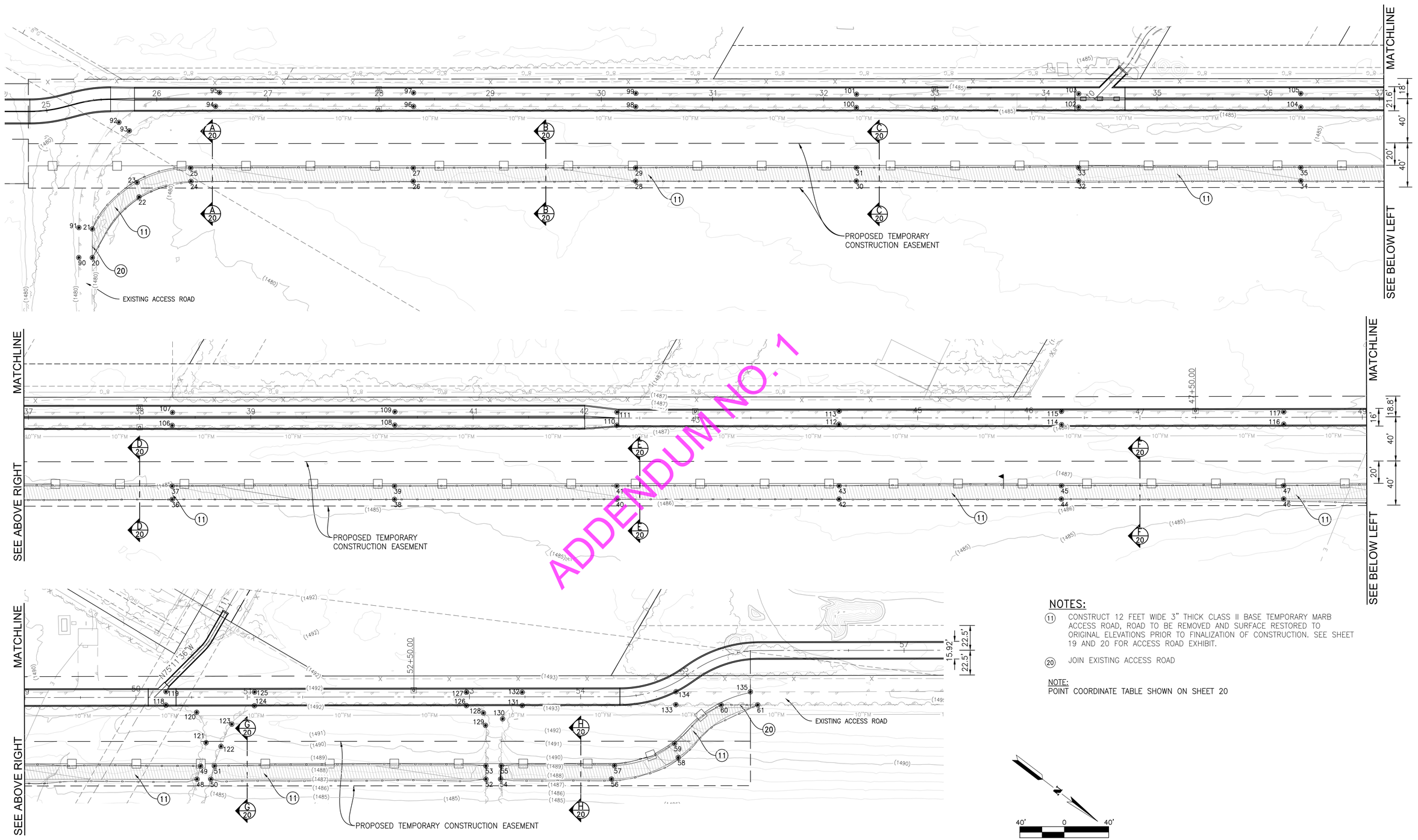
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
PLAN AND PROFILE
STA. 69+50.00 TO STA. 70+89.79

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 18 OF 42

H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B SD PLAN 10-18.DWG 11/8/2023 10:56:51 AM



NOTES:

(11) CONSTRUCT 12 FEET WIDE 3" THICK CLASS II BASE TEMPORARY MARB ACCESS ROAD, ROAD TO BE REMOVED AND SURFACE RESTORED TO ORIGINAL ELEVATIONS PRIOR TO FINALIZATION OF CONSTRUCTION. SEE SHEET 19 AND 20 FOR ACCESS ROAD EXHIBIT.

(20) JOIN EXISTING ACCESS ROAD

NOTE:
POINT COORDINATE TABLE SHOWN ON SHEET 20

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
PB NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

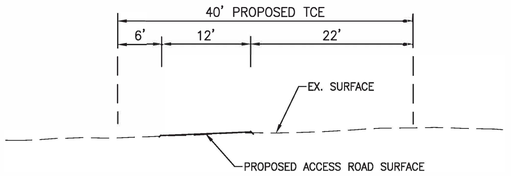
REF.	REVISIONS	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
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PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
MARB TEMPORARY ACCESS ROAD EXHIBIT

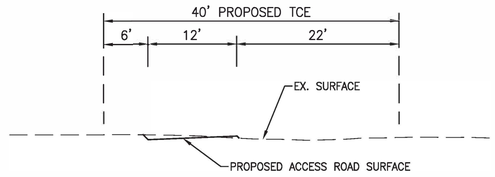
PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	19 OF 42

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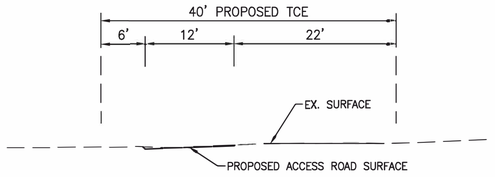
SECTION A–A
STA. 26+50.00

10' 0 10'



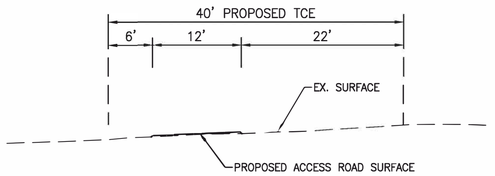
SECTION B–B

10' 0 10'



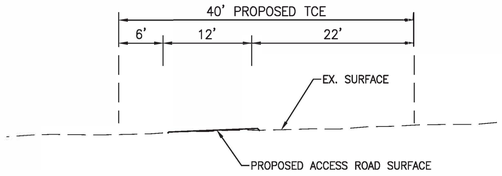
SECTION C–C

10' 0 10'



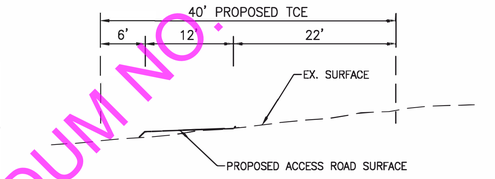
SECTION D–D

10' 0 10'



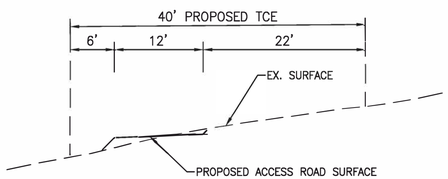
SECTION E–E

10' 0 10'



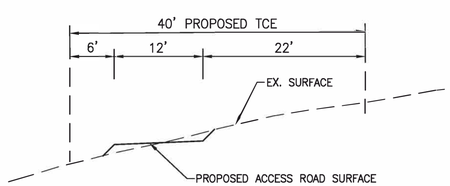
SECTION F–F

10' 0 10'



SECTION G–G

10' 0 10'



SECTION H–H

10' 0 10'

ADDENDUM NO. 1

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
20	2258247.49	6258772.54	TEMP. ACCESS ROAD
21	2258234.59	6258750.20	TEMP. ACCESS ROAD
22	2258256.46	6258704.15	TEMP. ACCESS ROAD
23	2258248.46	6258693.83	TEMP. ACCESS ROAD
24	2258289.81	6258668.67	TEMP. ACCESS ROAD
25	2258283.65	6258658.39	TEMP. ACCESS ROAD
26	2258462.81	6258568.30	TEMP. ACCESS ROAD
27	2258456.85	6258557.89	TEMP. ACCESS ROAD
28	2258635.95	6258467.90	TEMP. ACCESS ROAD
29	2258629.97	6258457.49	TEMP. ACCESS ROAD
30	2258807.67	6258368.29	TEMP. ACCESS ROAD
31	2258801.66	6258357.91	TEMP. ACCESS ROAD
32	2258980.68	6258267.95	TEMP. ACCESS ROAD
33	2258974.62	6258257.59	TEMP. ACCESS ROAD
34	2259153.61	6258167.67	TEMP. ACCESS ROAD
35	2259147.58	6258157.29	TEMP. ACCESS ROAD
36	2259326.62	6258067.32	TEMP. ACCESS ROAD
37	2259320.57	6258056.96	TEMP. ACCESS ROAD
38	2259499.62	6257966.98	TEMP. ACCESS ROAD
39	2259493.61	6257956.59	TEMP. ACCESS ROAD
40	2259672.63	6257866.64	TEMP. ACCESS ROAD
41	2259666.61	6257856.26	TEMP. ACCESS ROAD
42	2259845.63	6257766.29	TEMP. ACCESS ROAD
43	2259839.62	6257755.91	TEMP. ACCESS ROAD
44	2260018.64	6257665.95	TEMP. ACCESS ROAD
45	2260012.65	6257655.56	TEMP. ACCESS ROAD
46	2260191.65	6257565.60	TEMP. ACCESS ROAD
47	2260185.64	6257555.22	TEMP. ACCESS ROAD
48	2260386.81	6257452.39	TEMP. ACCESS ROAD
49	2260383.64	6257440.56	TEMP. ACCESS ROAD
50	2260397.52	6257446.20	TEMP. ACCESS ROAD
51	2260394.34	6257434.16	TEMP. ACCESS ROAD
52	2260611.63	6257322.01	TEMP. ACCESS ROAD
53	2260605.64	6257311.61	TEMP. ACCESS ROAD
54	2260622.98	6257315.42	TEMP. ACCESS ROAD
55	2260617.47	6257304.75	TEMP. ACCESS ROAD
56	2260709.34	6257265.34	TEMP. ACCESS ROAD
57	2260705.66	6257253.55	TEMP. ACCESS ROAD
58	2260751.57	6257218.46	TEMP. ACCESS ROAD
59	2260742.44	6257209.21	TEMP. ACCESS ROAD
60	2260761.22	6257158.12	TEMP. ACCESS ROAD
61	2260789.74	6257141.65	TEMP. ACCESS ROAD
90	2258236.92	6258778.53	EX. ACCESS ROAD
91	2258223.48	6258755.19	EX. ACCESS ROAD
92	2258207.14	6258655.15	EX. ACCESS ROAD

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
93	2258219.09	6258657.11	EX. ACCESS ROAD
94	2258275.17	6258599.08	EX. ACCESS ROAD
95	2258272.02	6258586.56	EX. ACCESS ROAD
96	2258429.24	6258509.85	EX. ACCESS ROAD
97	2258423.23	6258499.29	EX. ACCESS ROAD
98	2258602.43	6258409.91	EX. ACCESS ROAD
99	2258596.46	6258399.43	EX. ACCESS ROAD
100	2258774.63	6258311.02	EX. ACCESS ROAD
101	2258768.72	6258300.60	EX. ACCESS ROAD
102	2258947.37	6258210.51	EX. ACCESS ROAD
103	2258941.43	6258200.07	EX. ACCESS ROAD
104	2259120.37	6258110.26	EX. ACCESS ROAD
105	2259114.24	6258099.68	EX. ACCESS ROAD
106	2259293.25	6258009.68	EX. ACCESS ROAD
107	2259287.62	6257999.40	EX. ACCESS ROAD
108	2259466.38	6257909.05	EX. ACCESS ROAD
109	2259460.41	6257898.58	EX. ACCESS ROAD
110	2259639.27	6257808.94	EX. ACCESS ROAD
111	2259633.42	6257798.65	EX. ACCESS ROAD
112	2259811.77	6257708.00	EX. ACCESS ROAD
113	2259805.89	6257697.69	EX. ACCESS ROAD
114	2259985.22	6257607.89	EX. ACCESS ROAD
115	2259979.24	6257597.58	EX. ACCESS ROAD
116	2260157.93	6257507.33	EX. ACCESS ROAD
117	2260152.45	6257497.76	EX. ACCESS ROAD
118	2260329.11	6257408.71	EX. ACCESS ROAD
119	2260323.12	6257398.25	EX. ACCESS ROAD
120	2260356.28	6257400.49	EX. ACCESS ROAD
121	2260377.32	6257419.98	EX. ACCESS ROAD
122	2260390.64	6257416.03	EX. ACCESS ROAD
123	2260389.01	6257393.90	EX. ACCESS ROAD
124	2260398.33	6257369.34	EX. ACCESS ROAD
125	2260392.25	6257358.56	EX. ACCESS ROAD
126	2260563.28	6257273.60	EX. ACCESS ROAD
127	2260557.21	6257263.19	EX. ACCESS ROAD
128	2260579.80	6257271.61	EX. ACCESS ROAD
129	2260587.07	6257280.37	EX. ACCESS ROAD
130	2260597.45	6257267.58	EX. ACCESS ROAD
131	2260606.68	6257248.36	EX. ACCESS ROAD
132	2260600.68	6257237.99	EX. ACCESS ROAD
133	2260725.88	6257178.40	EX. ACCESS ROAD
134	2260720.18	6257168.18	EX. ACCESS ROAD
135	2260778.10	6257134.74	EX. ACCESS ROAD

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FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
PB NUMBER:	238474

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DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM–NGVD 29

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

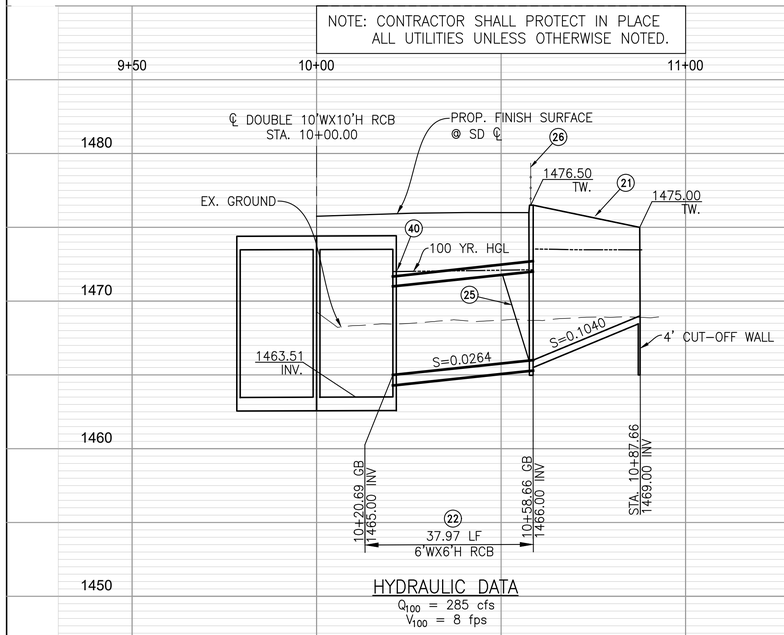
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
ACCESS ROAD CROSS–SECTIONS

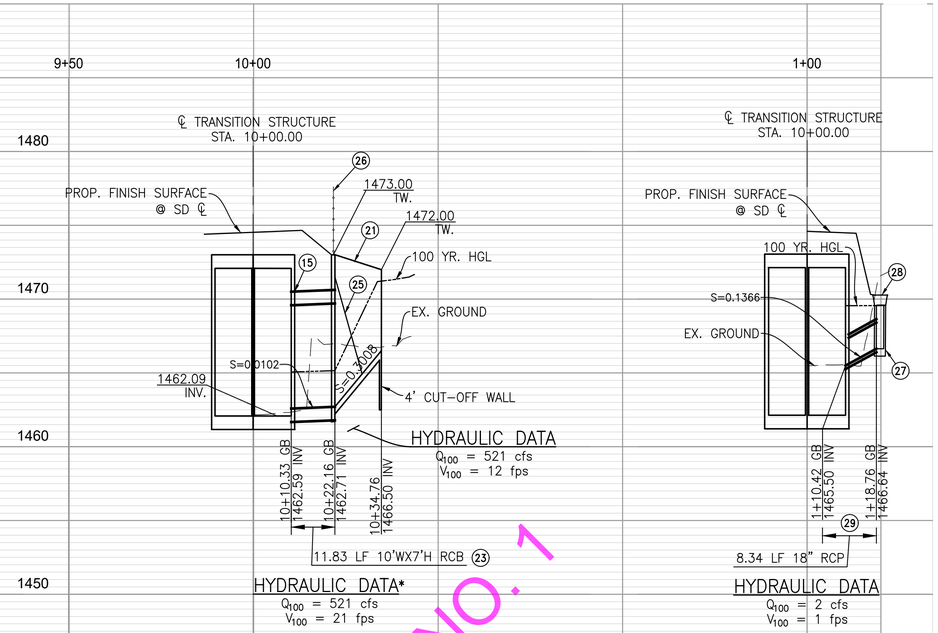
PROJECT NO. 4–0–00009
DRAWING NO. 4–1170
SHEET NO. 20 OF 42

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NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.



LATERAL LS
(MAINTAINED BY MARB)



LINE C
(MAINTAINED BY RCFC&WCD)

LINE D
(MAINTAINED BY MARB)

PROFILE

HYDRAULIC DATA*
Q_{100} = 521 cfs
V_{100} = 21 fps

* VELOCITIES GREATER THAN 20 FPS. SEE NOTE 14 OF GENERAL NOTES ON SHEET 1

HORIZ. 1"=20'
VERT. 1"=5'

ADDENDUM NO. 1

NOTES:

15 CONSTRUCT JUNCTION STRUCTURE NO. 5 PER RCFC&WCD STD. DWG. NO. JS230 DESIGN CASE AM14P10

21 CONSTRUCT RCB CULVERT HEADWALLS, ENDWALLS, AND WARPED WINGWALLS PER CALTRANS STD. PLAN D86A AND DETAIL ON SHEET 27

22 INSTALL 6' W X 6' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

23 INSTALL 7' W X 10' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

25 CONSTRUCT SLOPED PROTECTION BARRIER PER STANDARD PLANS FOR PUBLIC WORK CONSTRUCTION 360-2

26 INSTALL CABLE FENCE PER RCFC STD. DWG. M826

27 CONSTRUCT TYPE G1 DRAINAGE INLET PER CALTRANS STD. PLAN D 73 AND GRATE TYPE 24-9 PER CALTRANS STD. PLAN D77A AND DETAIL HEREON

28 CONSTRUCT 3" THICK. DRAINAGE APRON PER DETAIL HEREON

29 INSTALL 18" RCP (CLASS IV)

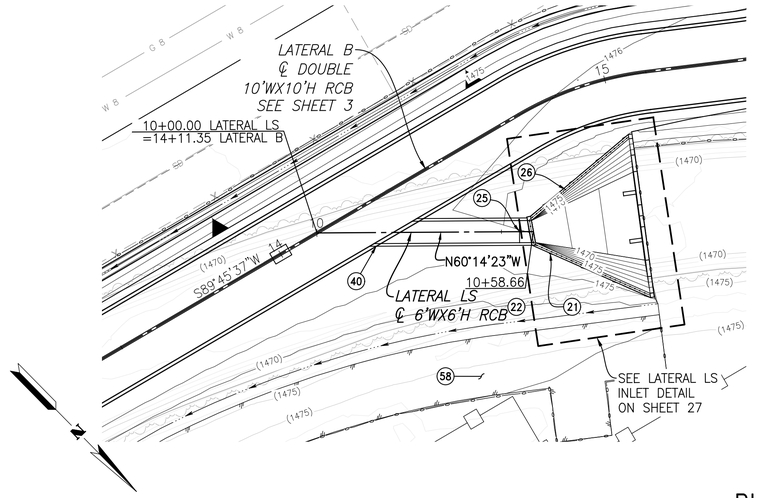
31 CONSTRCT CONCRETE V-DITCH PER DETAIL A ON SHEET 28

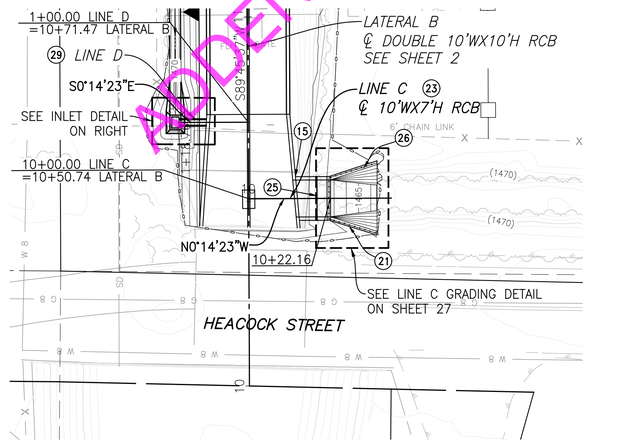
34 CONSTRUCT JUNCTION STRUCTURE NO. 3 PER RCFC&WCD STD. DWG. NO. JS228

40 CONSTRUCT JUNCTION STRUCTURE NO. 5 PER RCFC&WCD STD. DWG. NO. JS230 DESIGN CASE AM10P12

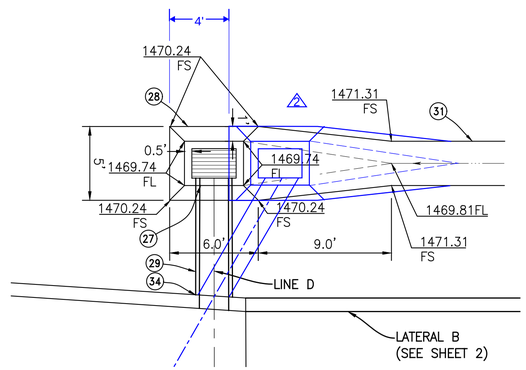
MANHOLE / JUNCTION STRUCTURE DATA

LATERAL	℄ STATION	WALL STATION	STRUCTURE	A	C
LINE D	~~10+71.47~~ 10+66.40 △2	10+71.47	JS NO. 3	90°	–
LINE C	10+50.74	10+50.74	JS NO. 5	90°	–

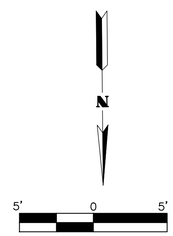




PLAN



INLET DETAIL



DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

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Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE
△2	INLET RELOCATION	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
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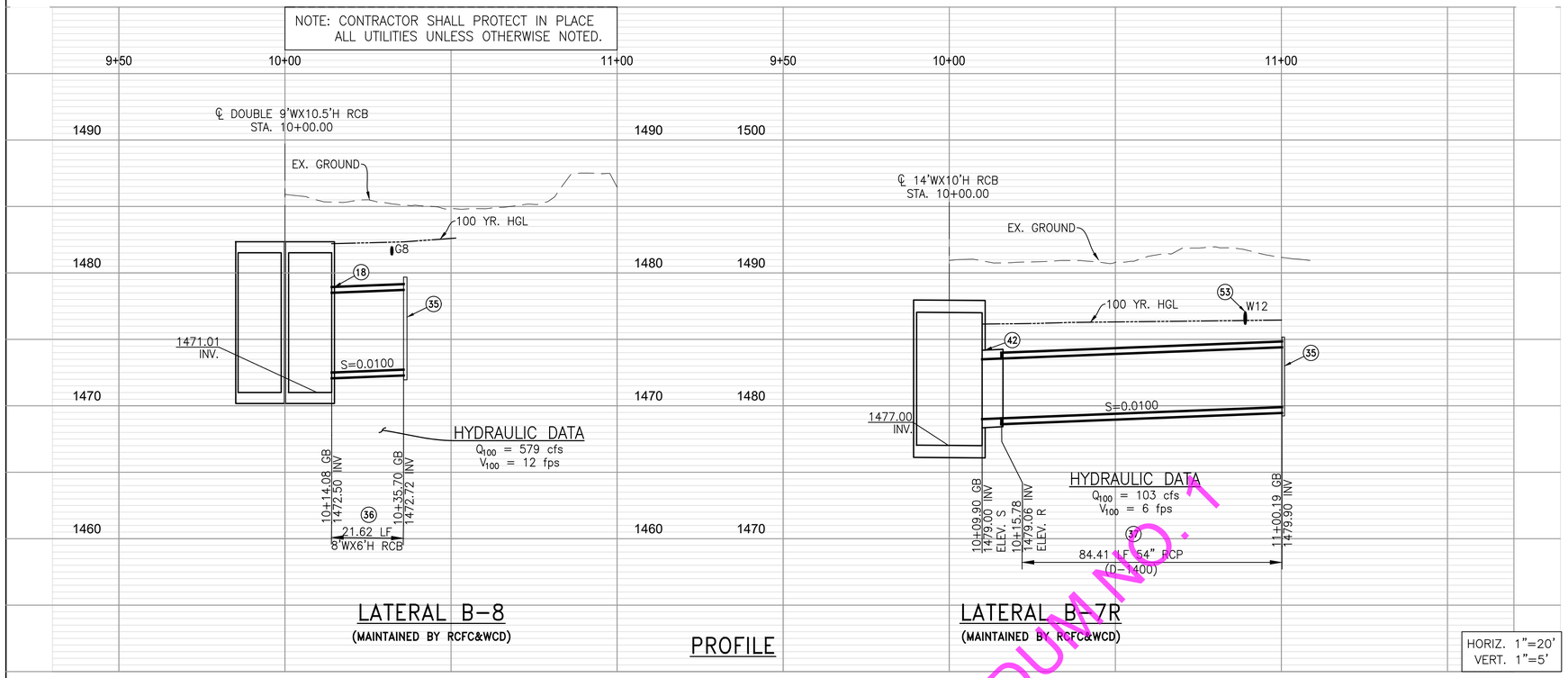
PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
LATERAL LS, LINE C, LINE D
PLAN AND PROFILE

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 21 OF 42

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
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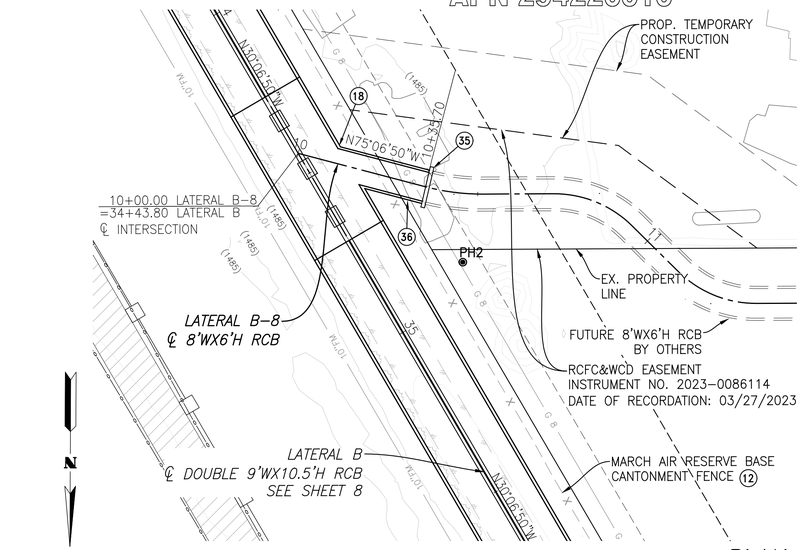
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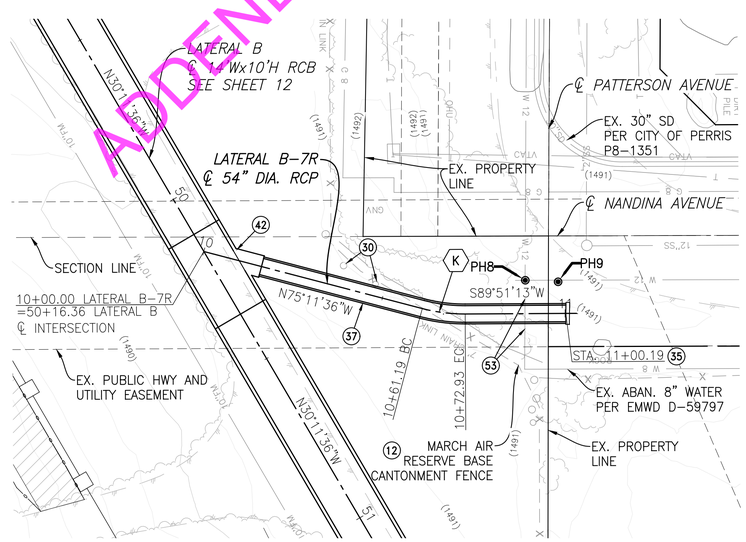
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MANHOLE / JUNCTION STRUCTURE DATA					
LATERAL	℄ STATION	WALL STATION	STRUCTURE	A	C
LATERAL B-8	34+43.80	34+53.75	JS NO. 5	45°	–
LATERAL B-7R	50+16.36	50+23.36	JS NO. 1	45°	16.2'

APN 294220010





PLAN

ADDENDUM NO. 1

CURVE DATA	K
R	45.00'
Δ	14°57'12"
L	11.74'
T	5.91'
BC	STA. 10+61.19
EC	STA. 10+72.93
PI NORTHING	2260333.648
PI EASTING	6257343.107

NOTES:

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

(18) CONSTRUCT JUNCTION STRUCTURE NO. 5 PER RCFC&WCD STD. DWG. NO. JS230 DESIGN CASE BM10P12.

(30) REMOVE AND REPLACE EXISTING FENCE AND BOLLARDS IN KIND

(35) CONSTRUCT CONCRETE BULKHEAD PER RCFC STD. DWG. M816

(36) INSTALL 8' W X 6' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

(37) INSTALL 54" DIA. RCP

(42) CONSTRUCT JUNCTION STRUCTURE NO. 1 PER RCFC&WCD STD. DWG. NO. JS226

(53) CUT ABANDONED 12" CML&C (EMWD AS-BUILT DWG. NO. D-59797) AND REMOVE INTERFERING PORTION

ALBERT A. WEBB ASSOCIATES
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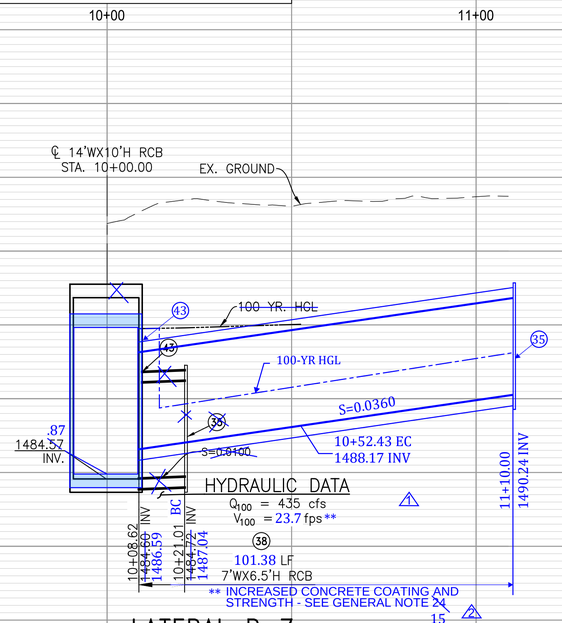
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PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
LINE B-8, B-7R
PLAN AND PROFILE

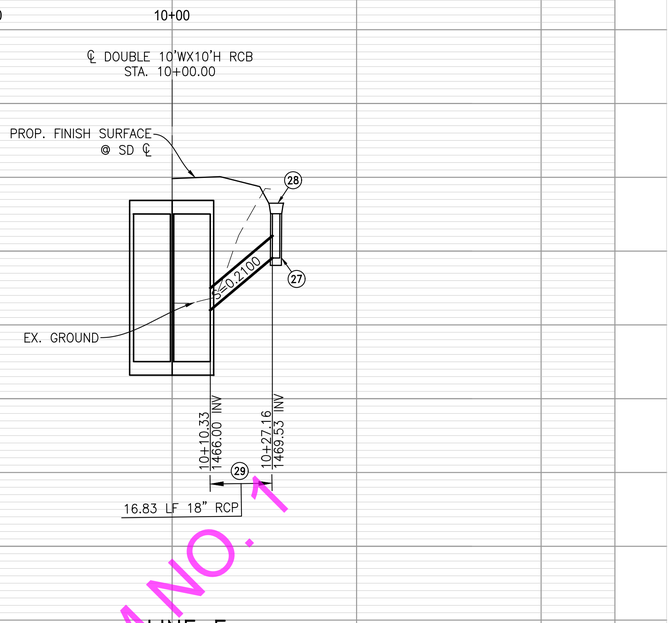
PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 22 OF 42

H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B SD PLAN LATERAL SHEETS.DWG 11/8/2023 10:59:00 AM

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.



PROFILE



HORIZ. 1"=20'
VERT. 1"=5'

CURVE DATA	⟨L⟩
R	120.00'
∆	15°00'05"
L	31.42'
T	15.80'
BC	STA. 10+21.01
EC	STA. 10+52.43
PI NORTHING	2261720.938
PI EASTING	6256301.392

NOTES:

(27) CONSTRUCT TYPE G1 DRAINAGE INLET PER CALTRANS STD. PLAN D 73 AND GRATE TYPE 24-9 PER CALTRANS STD. PLAN D77A AND DETAIL HEREON

(28) CONSTRUCT 3" THICK. DRAINAGE APRON PER DETAIL HEREON

(29) INSTALL 18" RCP (CLASS IV)

(34) CONSTRUCT JUNCTION STRUCTURE NO. 3 PER RCFC&WCD STD. DWG. NO. JS228

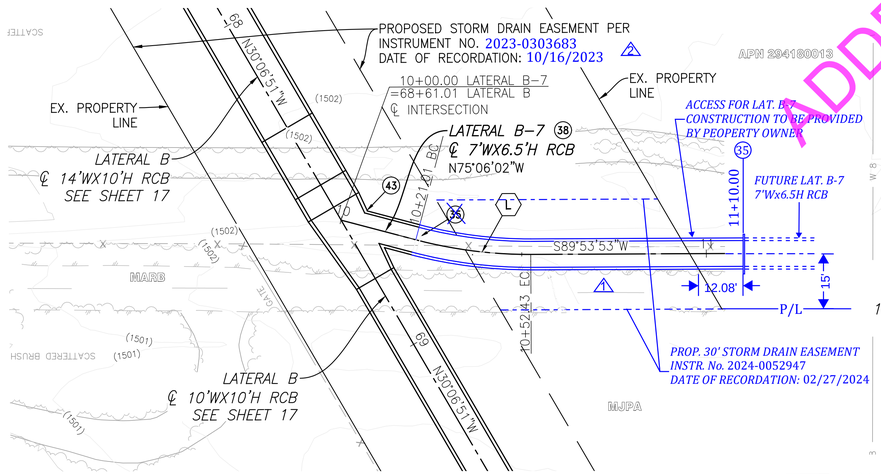
(35) CONSTRUCT CONCRETE BULKHEAD PER RCFC STD. DWG. M816

(38) INSTALL 7' W X 6.5' H RCB PER CALTRANS STD. DWG. D-80 (2018 EDITION)

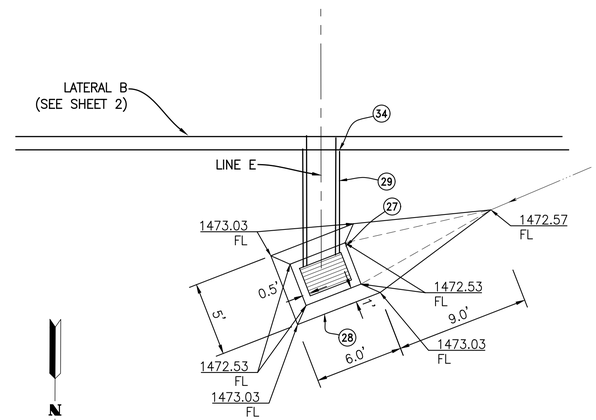
(43) CONSTRUCT JUNCTION STRUCTURE NO. 5 PER RCFC&WCD STD. DWG. NO. JS230 DESIGN CASE BM14P10

(58) ACCESS ROAD TO RELOCATED SLUICE GATE PER ACCESS ROAD EXHIBIT ON SHEET 33

ADDENDUM NO. 1



PLAN



INLET DETAIL

20' 0 20'

20' 0 20'

5' 0 5'

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE
1	LATERAL B-7 STUBOUT EXTENSION - SH. 17&23	E.A.	2/8/24
2	ADD EASEMENT DATA, NOTE UPDATE	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

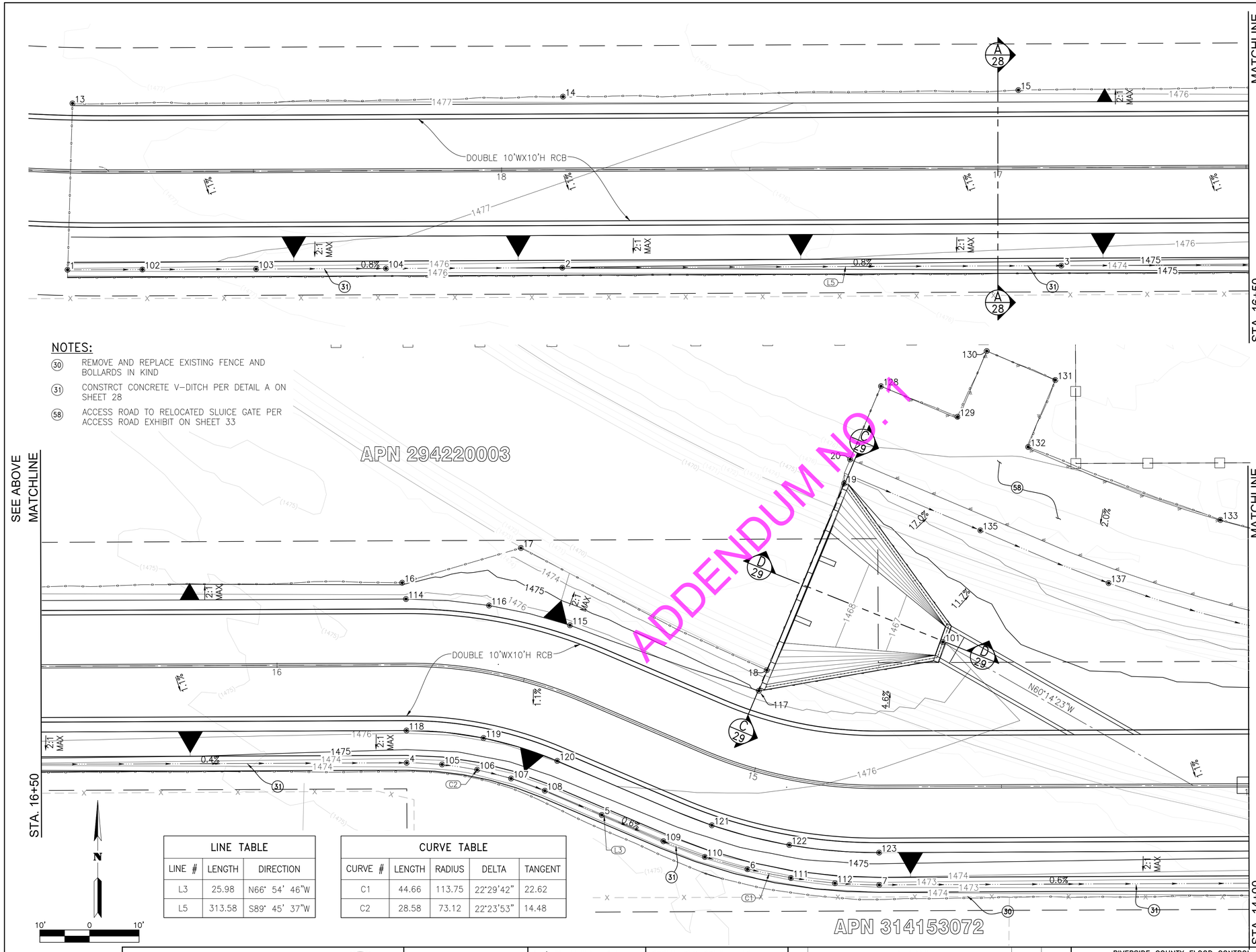
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
LINE B-7
PLAN AND PROFILE

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	23 OF 42

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NOTES:

(30) REMOVE AND REPLACE EXISTING FENCE AND BOLLARDS IN KIND

(31) CONSTRCT CONCRETE V-DITCH PER DETAIL A ON SHEET 28

(58) ACCESS ROAD TO RELOCATED SLUICE GATE PER ACCESS ROAD EXHIBIT ON SHEET 33

LINE TABLE		
LINE #	LENGTH	DIRECTION
L3	25.98	N66° 54' 46"W
L5	313.58	S89° 45' 37"W

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	44.66	113.75	22°29'42"	22.62
C2	28.58	73.12	22°23'53"	14.48

10' 0 10'

COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	1475.75	2257712.02	6259085.16	V-DITCH FLOWLINE
2	1474.92	2257712.44	6259184.87	V-DITCH FLOWLINE
3	1474.09	2257712.86	6259285.42	V-DITCH FLOWLINE
4	1473.15	2257713.33	6259398.74	V-DITCH FLOWLINE
5	1472.84	2257702.82	6259438.06	V-DITCH FLOWLINE
6	1472.65	2257691.88	6259467.41	V-DITCH FLOWLINE
7	1472.49	2257688.73	6259493.97	V-DITCH FLOWLINE
13	1477.28	2257745.56	6259086.15	DAYLIGHT
14	1476.42	2257746.92	6259185.00	DAYLIGHT
15	1475.64	2257748.24	6259276.76	DAYLIGHT
16	1474.79	2257749.62	6259397.84	DAYLIGHT
17	1473.44	2257756.63	6259421.77	DAYLIGHT
18	1473.42	2257731.99	6259471.31	DAYLIGHT
19	1475.00	2257769.64	6259486.91	TOP OF WALL
20	1473.93	2257774.48	6259488.11	DAYLIGHT
101	1476.50	2257737.67	6259506.78	TOP OF WALL
102	1475.62	2257712.09	6259100.25	V-DITCH FLOWLINE GB
103	1475.43	2257712.18	6259123.16	V-DITCH FLOWLINE GB
104	1475.22	2257712.29	6259149.33	V-DITCH FLOWLINE GB
105	1473.09	2257713.00	6259405.88	V-DITCH FLOWLINE GB
106	1473.03	2257711.94	6259412.95	V-DITCH FLOWLINE GB
107	1473.00	2257710.16	6259419.78	V-DITCH FLOWLINE GB
108	1472.91	2257707.71	6259426.58	V-DITCH FLOWLINE GB
109	1472.76	2257697.52	6259450.48	V-DITCH FLOWLINE GB
110	1472.70	2257694.36	6259458.83	V-DITCH FLOWLINE GB
111	1472.60	2257690.11	6259476.17	V-DITCH FLOWLINE GB
112	1472.54	2257689.06	6259485.04	V-DITCH FLOWLINE GB
114	1476.29	2257746.34	6259398.60	TOP OF SLOPE
115	1476.18	2257741.05	6259431.66	TOP OF SLOPE
116	1476.23	2257745.04	6259415.35	TOP OF SLOPE
117	1475.00	2257727.85	6259469.71	TOP OF WALL
118	1476.02	2257719.84	6259398.71	TOP OF SLOPE
119	1475.95	2257718.32	6259414.23	TOP OF SLOPE
120	1475.89	2257713.70	6259429.09	TOP OF SLOPE
121	1475.76	2257700.74	6259460.24	TOP OF SLOPE
122	1475.71	2257696.77	6259475.85	TOP OF SLOPE
123	1475.65	2257695.23	6259493.95	TOP OF SLOPE
128	1474.25	2257789.22	6259494.32	DAYLIGHT
129	1474.12	2257783.07	6259509.73	DAYLIGHT
130	1474.14	2257796.32	6259515.63	DAYLIGHT
131	1474.10	2257790.48	6259529.45	DAYLIGHT
132	1474.10	2257776.98	6259523.97	DAYLIGHT
133	1473.92	2257762.29	6259562.71	DAYLIGHT
135	1473.47	2257760.17	6259514.34	FLOWLINE
137	1473.40	2257749.55	6259540.18	FLOWLINE

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

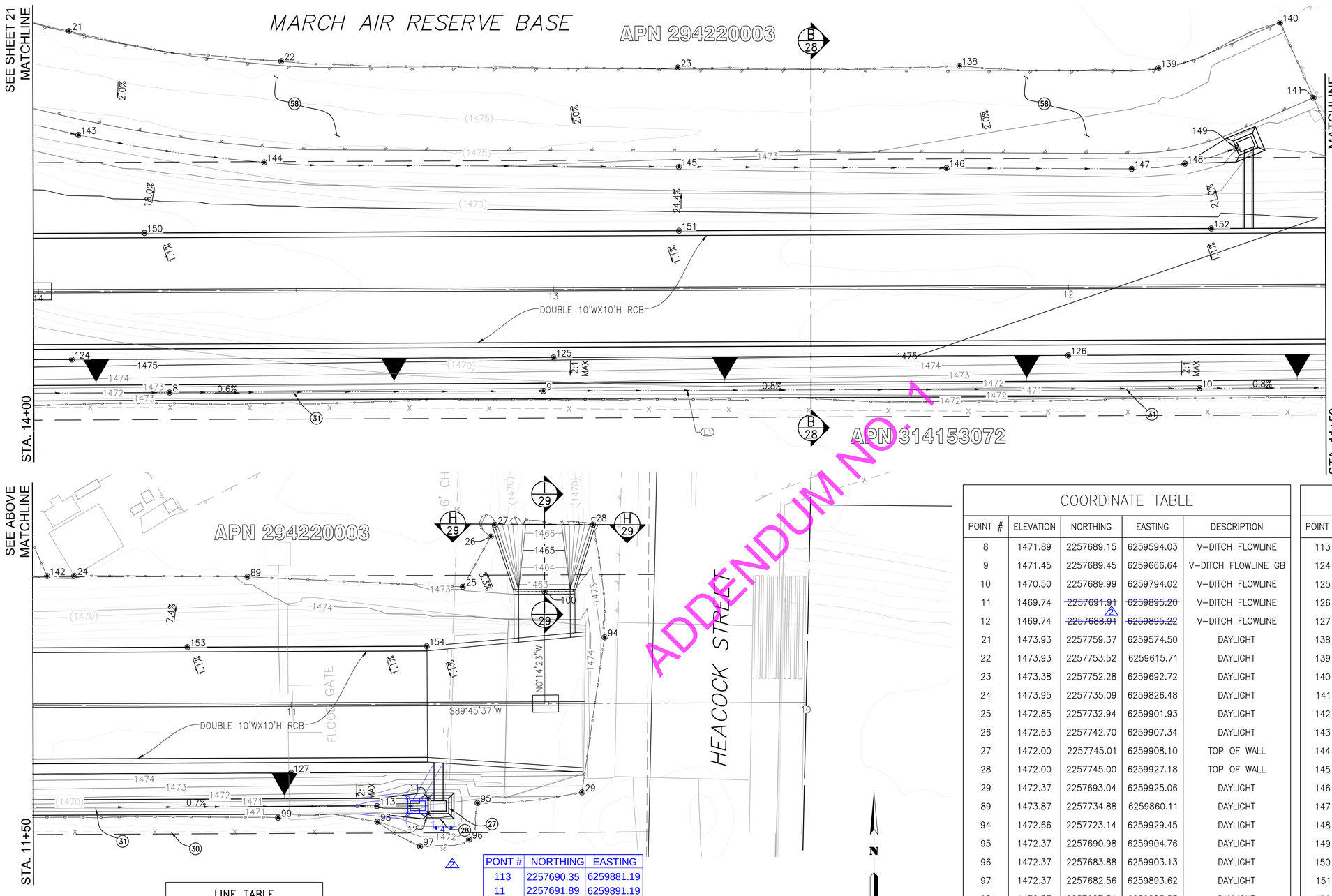
REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
DOWNSTREAM GRADING DETAILS

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 24 OF 42

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NOTES:

(27) CONSTRUCT TYPE G1 DRAINAGE INLET PER CALTRANS STD. PLAN D 73 AND GRATE TYPE 24-9 PER CALTRANS STD. PLAN D77A AND DETAIL HEREON

(28) CONSTRUCT 3" THICK. DRAINAGE APRON PER DETAIL HEREON

(30) REMOVE AND REPLACE EXISTING FENCE AND BOLLARDS IN KIND

(31) CONSTRCT CONCRETE V-DITCH PER DETAIL A ON SHEET 28

(58) ACCESS ROAD TO RELOCATED SLUICE GATE PER ACCESS ROAD EXHIBIT ON SHEET 33

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	401.23	S89° 45' 37"W

PONT #	NORTHING	EASTING
113	2257690.35	6259881.19
11	2257691.89	6259891.19
12	2257688.89	6259891.21

10' 0 10'

COORDINATE TABLE

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
8	1471.89	2257689.15	6259594.03	V-DITCH FLOWLINE
9	1471.45	2257689.45	6259666.64	V-DITCH FLOWLINE GB
10	1470.50	2257689.99	6259794.02	V-DITCH FLOWLINE
11	1469.74	~~2257691.91~~	~~6259895.20~~	V-DITCH FLOWLINE
12	1469.74	~~2257688.91~~	~~6259895.22~~	V-DITCH FLOWLINE
21	1473.93	2257759.37	6259574.50	DAYLIGHT
22	1473.93	2257753.52	6259615.71	DAYLIGHT
23	1473.38	2257752.28	6259692.72	DAYLIGHT
24	1473.95	2257735.09	6259826.48	DAYLIGHT
25	1472.85	2257732.94	6259901.93	DAYLIGHT
26	1472.63	2257742.70	6259907.34	DAYLIGHT
27	1472.00	2257745.01	6259908.10	TOP OF WALL
28	1472.00	2257745.00	6259927.18	TOP OF WALL
29	1472.37	2257693.04	6259925.06	DAYLIGHT
89	1473.87	2257734.88	6259860.11	DAYLIGHT
94	1472.66	2257723.14	6259929.45	DAYLIGHT
95	1472.37	2257690.98	6259904.76	DAYLIGHT
96	1472.37	2257683.88	6259903.13	DAYLIGHT
97	1472.37	2257682.56	6259893.62	DAYLIGHT
98	1472.37	2257687.34	6259885.33	DAYLIGHT
99	1473.06	2257688.11	6259866.06	DAYLIGHT
100	1473.00	2257732.01	6259917.79	TOP OF WALL

COORDINATE TABLE

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
113	1469.81	~~2257690.37~~	~~6259885.27~~	V-DITCH FLOWLINE GB
124	1475.35	2257695.57	6259575.07	TOP OF SLOPE
125	1475.01	2257695.96	6259668.59	TOP OF SLOPE
126	1474.64	2257696.38	6259768.56	TOP OF SLOPE
127	1474.27	2257696.80	6259868.58	TOP OF SLOPE
138	1473.48	2257752.61	6259747.39	DAYLIGHT
139	1473.20	2257752.17	6259786.06	DAYLIGHT
140	1473.04	2257761.02	6259809.67	DAYLIGHT
141	1473.04	2257746.38	6259816.17	DAYLIGHT
142	1473.04	2257735.03	6259821.21	DAYLIGHT
143	1473.29	2257739.16	6259576.32	FLOWLINE
144	1473.18	2257733.84	6259612.43	FLOWLINE
145	1472.88	2257732.99	6259692.93	FLOWLINE
146	1472.70	2257732.75	6259744.92	FLOWLINE
147	1472.58	2257732.59	6259780.86	FLOWLINE
148	1472.57	2257733.60	6259791.21	FLOWLINE
149	1472.53	2257736.62	6259801.16	FLOWLINE
150	1462.06	2257720.13	6259589.17	EDGE OF BOX
151	1462.06	2257720.57	6259692.96	EDGE OF BOX
152	1462.06	2257721.00	6259796.31	EDGE OF BOX
153	1462.06	2257721.22	6259848.46	EDGE OF BOX
154	1462.06	2257721.41	6259894.92	EDGE OF BOX

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
PB NUMBER:	238474

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TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
2	INLET RELOCATION	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
DOWNSTREAM GRADING DETAILS

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 25 OF 42

H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B GRADING SHEETS.DWG 11/9/2023 8:35:31 AM

NOTES:

(12) REMOVE EXISTING FENCE & REPLACE WITH 7' HIGH (MATCH EXISTING AFTER CONSTRUCTION OF STAGE 4) AIRFORCE SECURITY FENCE WITH SINGLE 45 DEGREE BARBED WIRE ARM (BARBS AWAY FROM MARB) PER UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS & DWG. NO. UFC-700. MODIFIED CONCRETE CURB PER DETAIL ON SHEET 34

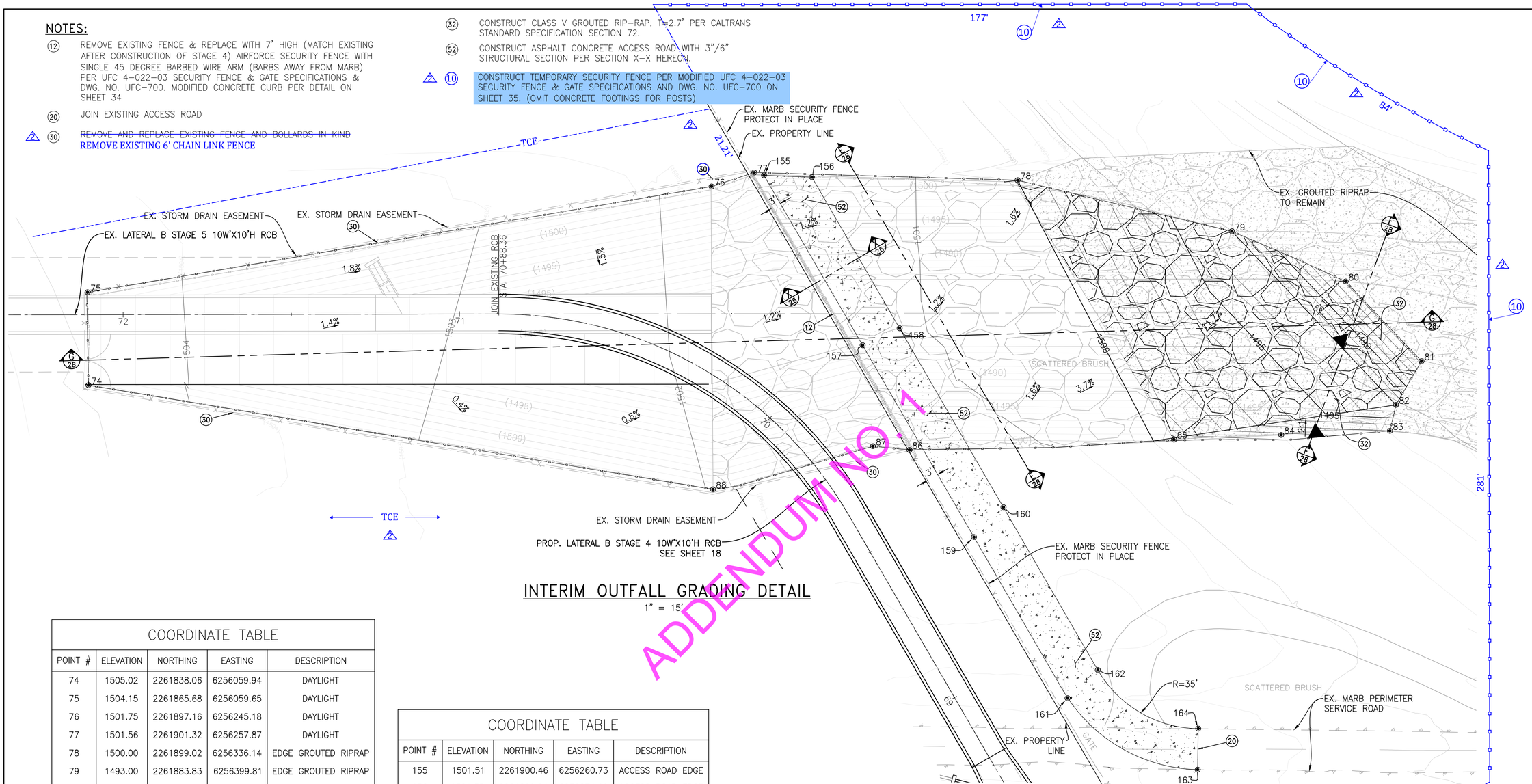
(20) JOIN EXISTING ACCESS ROAD

(2) (30) ~~REMOVE AND REPLACE EXISTING FENCE AND DOLLARDS IN KIND~~
REMOVE EXISTING 6' CHAIN LINK FENCE

(32) CONSTRUCT CLASS V GROUTED RIP-RAP, T=2.7' PER CALTRANS STANDARD SPECIFICATION SECTION 72.

(52) CONSTRUCT ASPHALT CONCRETE ACCESS ROAD WITH 3"/6" STRUCTURAL SECTION PER SECTION X-X HEREON.

(2) (10) CONSTRUCT TEMPORARY SECURITY FENCE PER MODIFIED UFC 4-022-03 SECURITY FENCE & GATE SPECIFICATIONS AND DWG. NO. UFC-700 ON SHEET 35. (OMIT CONCRETE FOOTINGS FOR POSTS)

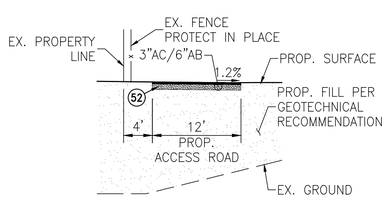


INTERIM OUTFALL GRADING DETAIL

1" = 15'

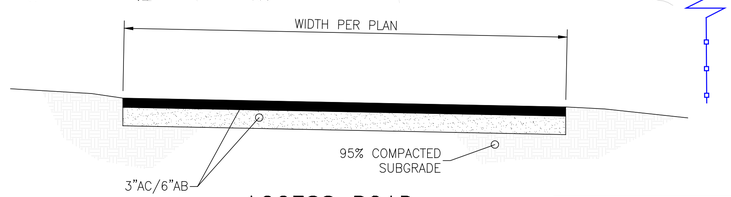
COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
74	1505.02	2261838.06	6256059.94	DAYLIGHT
75	1504.15	2261865.68	6256059.65	DAYLIGHT
76	1501.75	2261897.16	6256245.18	DAYLIGHT
77	1501.56	2261901.32	6256257.87	DAYLIGHT
78	1500.00	2261899.02	6256336.14	EDGE GROUTED RIPRAP
79	1493.00	2261883.83	6256399.81	EDGE GROUTED RIPRAP
80	1485.83	2261868.91	6256433.65	EDGE GROUTED RIPRAP
81	1485.78	2261845.20	6256456.22	EDGE GROUTED RIPRAP
82	1493.00	2261832.21	6256448.62	EDGE GROUTED RIPRAP
83	1496.97	2261824.49	6256446.83	EDGE GROUTED RIPRAP
84	1499.00	2261823.26	6256414.50	EDGE GROUTED RIPRAP
85	1499.67	2261821.89	6256382.63	EDGE GROUTED RIPRAP
86	1501.61	2261818.80	6256303.96	DAYLIGHT
87	1501.42	2261819.92	6256293.10	DAYLIGHT
88	1501.99	2261807.08	6256245.60	DAYLIGHT

COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
155	1501.51	2261900.46	6256260.73	ACCESS ROAD EDGE
156	1501.35	2261899.94	6256274.99	ACCESS ROAD EDGE
157	1501.34	2261849.93	6256290.07	ACCESS ROAD EDGE
158	1501.39	2261854.98	6256301.06	ACCESS ROAD EDGE
159	1501.57	2261792.90	6256323.17	ACCESS ROAD EDGE
160	1501.80	2261801.76	6256331.93	ACCESS ROAD EDGE
161	1502.00	2261745.00	6256350.98	ACCESS ROAD EDGE
162	1501.72	2261753.37	6256360.00	ACCESS ROAD EDGE
163	1501.57	2261723.74	6256389.69	ACCESS ROAD EDGE
164	1501.63	2261735.94	6256389.84	ACCESS ROAD EDGE



SECTION X-X

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'



ACCESS ROAD STRUCTURAL SECTION DETAIL

N.T.S.

MJPA
MJPA CONTRACT ENGINEER
NOVEMBER 21, 2023
DATE:

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE RCE 67239 DATE: 11/13/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

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PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

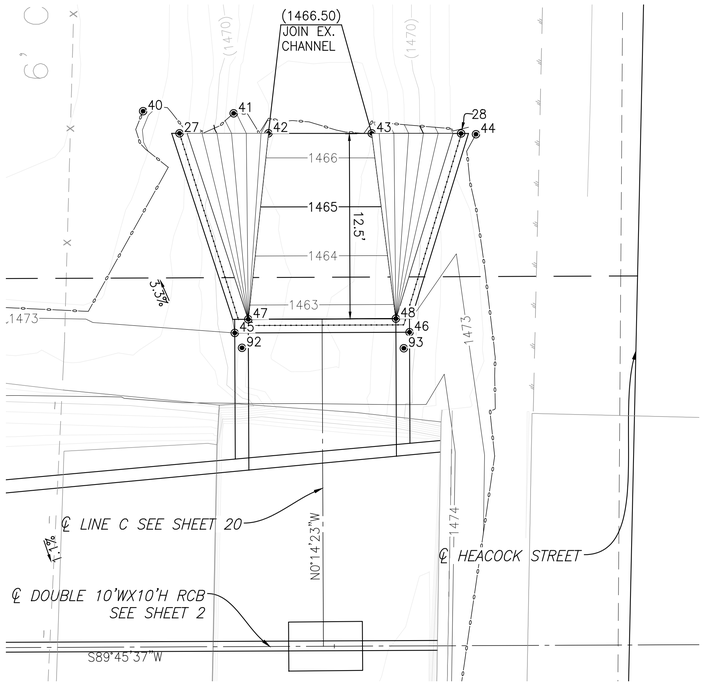
REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
2	ADD TCE, TEMP. FENCE, CONSTR. NOTES	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
UPSTREAM GRADING DETAILS

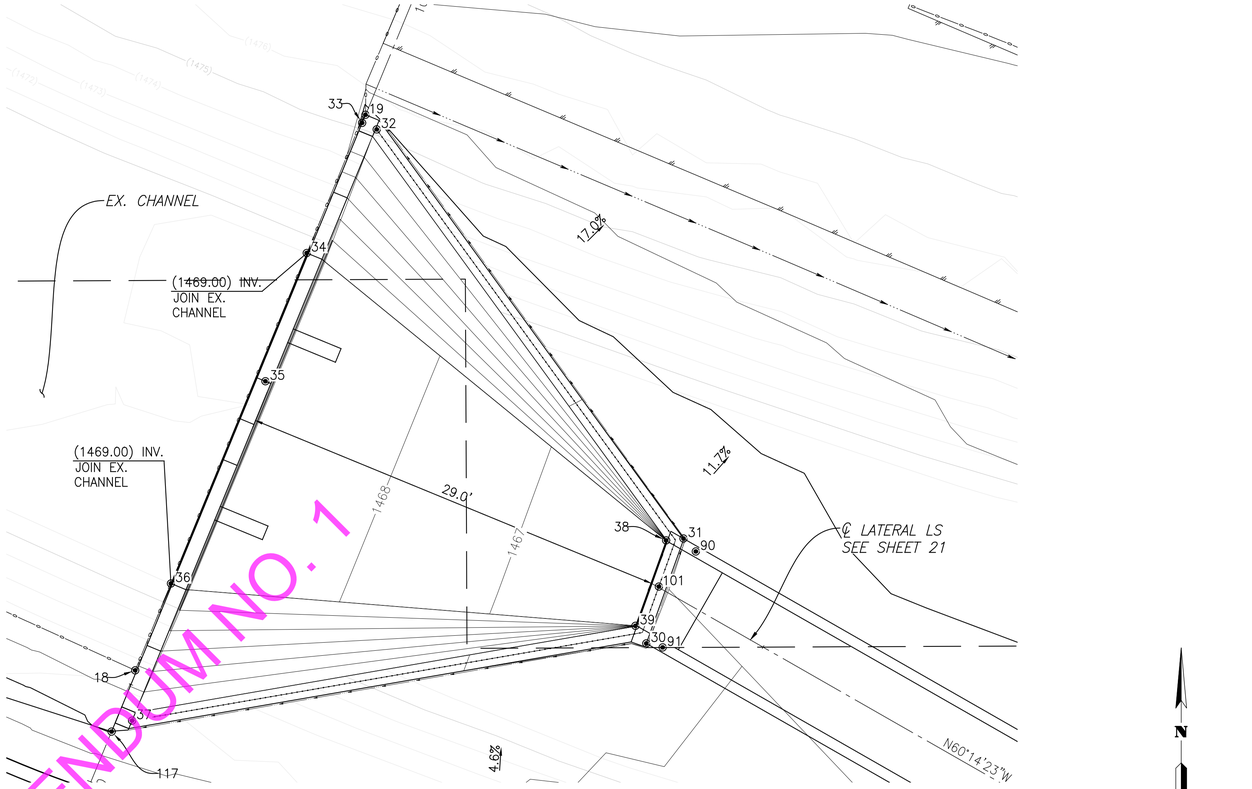
PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 26 OF 42

H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B GRADING SHEETS.DWG 11/13/2023 5:05:32 PM



LINE C INLET DETAIL

1" = 5'



LATERAL LS INLET DETAIL

1" = 5'

ADDENDUM NO. 1

COORDINATE TABLE

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
18	1473.42	2257731.99	6259471.31	DAYLIGHT
19	1475.00	2257769.64	6259486.91	TOP OF WALL
27	1472.00	2257745.01	6259908.10	TOP OF WALL
28	1472.00	2257745.00	6259927.18	TOP OF WALL
30	1476.50	2257733.82	6259505.93	TOP OF WALL
31	1476.50	2257740.93	6259508.45	TOP OF WALL
32	1475.00	2257768.64	6259487.66	TOP OF WALL
33	1475.00	2257769.09	6259486.68	TOP OF WALL
34	1469.00	2257760.27	6259482.93	FLOWLINE
35	1472.00	2257751.58	6259480.13	TOP OF WALL
36	1469.00	2257737.88	6259473.73	FLOWLINE
37	1475.00	2257728.59	6259471.09	TOP OF WALL
38	1466.00	2257740.80	6259507.27	FLOWLINE
39	1466.00	2257735.01	6259505.19	FLOWLINE
40	1473.23	2257746.51	6259905.64	DAYLIGHT

COORDINATE TABLE

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
41	1472.63	2257746.36	6259911.77	DAYLIGHT
42	1466.50	2257745.00	6259914.13	FLOWLINE
43	1466.50	2257745.00	6259921.13	FLOWLINE
44	1472.66	2257744.95	6259928.18	DAYLIGHT
45	1473.00	2257731.48	6259911.84	TOP OF WALL
46	1473.00	2257731.53	6259923.68	TOP OF WALL
47	1462.71	2257732.41	6259912.76	FLOWLINE
48	1462.71	2257732.45	6259922.76	FLOWLINE
90	1475.92	2257740.05	6259509.29	PROP. FG
91	1475.92	2257733.55	6259507.04	PROP. FG
92	1473.21	2257730.47	6259912.33	TOP OF WALL
93	1473.22	2257730.45	6259923.30	TOP OF WALL
101	1476.50	2257737.67	6259506.78	TOP OF WALL
117	1475.00	2257727.85	6259469.71	TOP OF WALL

ALBERT A. WEBB ASSOCIATES
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3788 McCRAY STREET
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FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23

REGISTERED PROFESSIONAL ENGINEER — JOSEPH C. CALDWELL — NO. C67239 — CIVIL — STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

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1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

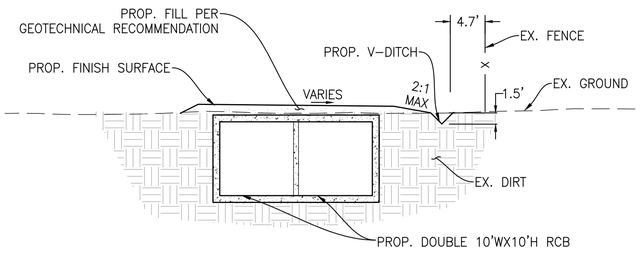
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APPROVED BY: DATE: 11/20/23

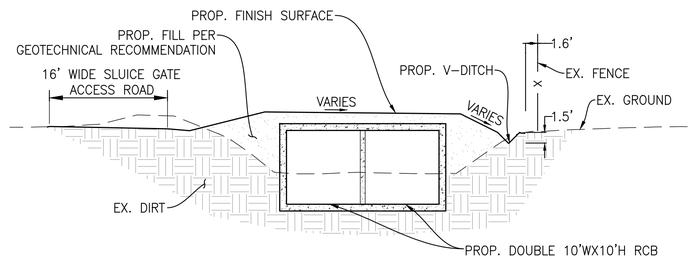
PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
LATERAL GRADING DETAILS

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 27 OF 42

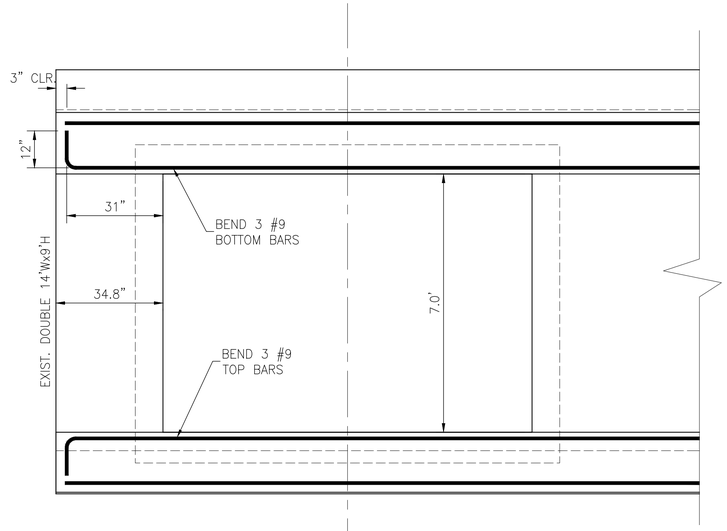
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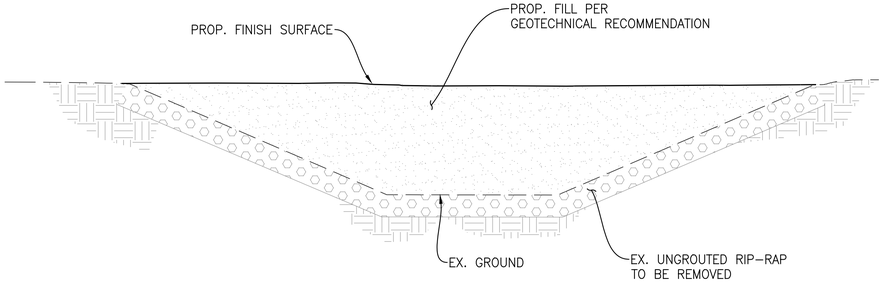
SECTION A–A
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'
SEE SHEET 24



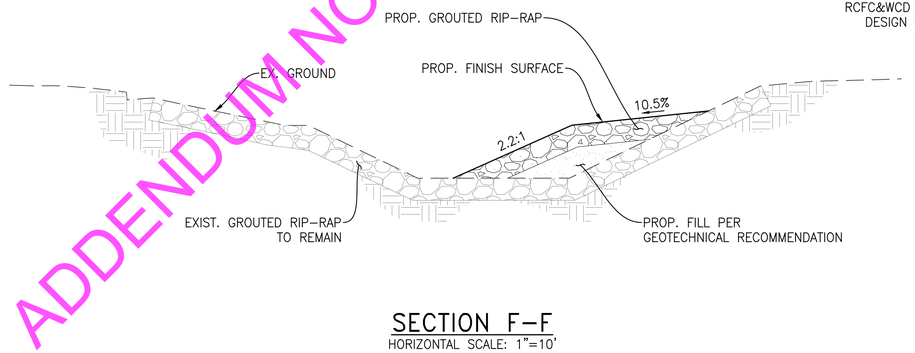
SECTION B–B
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'
SEE SHEET 25



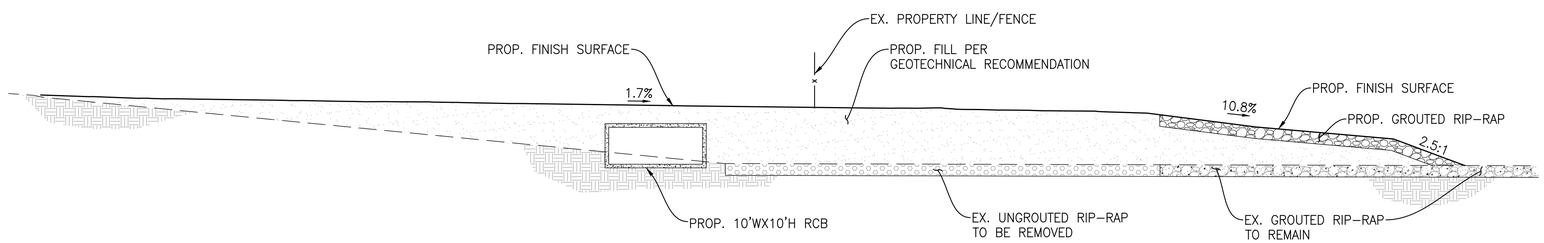
SECTION M–M
SCALE: 1"=2'
NOTE: ALL OTHER REINFORCEMENT PER
RCFC&WCD STD. JS230–JS#5
DESIGN CASE AM14P10



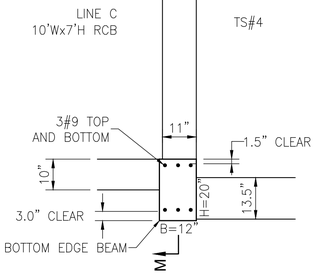
SECTION E–E
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'
SEE SHEET 26



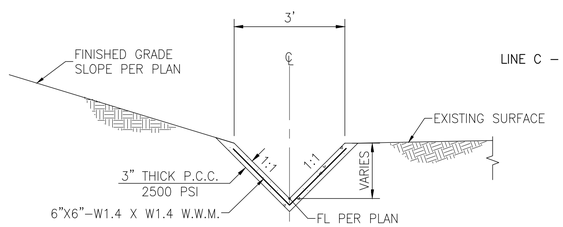
SECTION F–F
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'
SEE SHEET 26



SECTION G–G
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=20'
SEE SHEET 26



DETAIL L
LINE C – JS#5 DEVELOPMENT STEEL DETAIL
DESIGN CASE AM14P10
SCALE: 1"=2'



DETAIL A
HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=2'
(MAINTAINED BY MARB)

ADDENDUM NO. 1

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DESIGNED BY:	JCC
DRAWN BY:	EX
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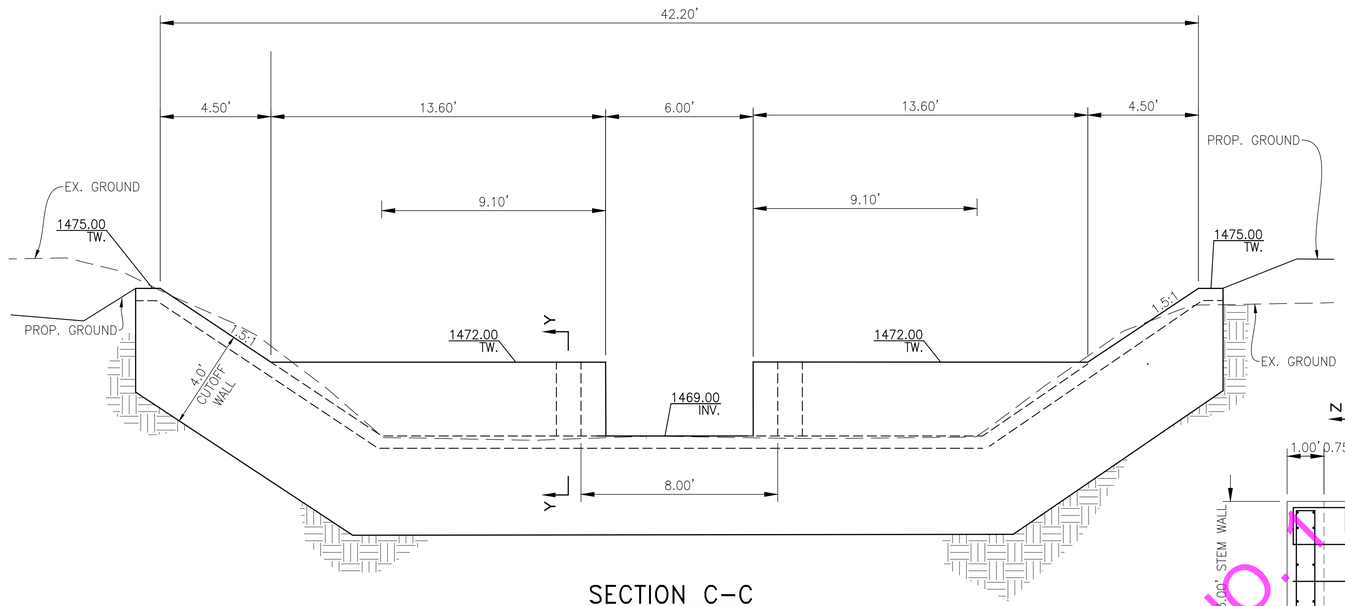
REF.	DESCRIPTION	APPR.	DATE
	REVISIONS		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
CROSS SECTIONS

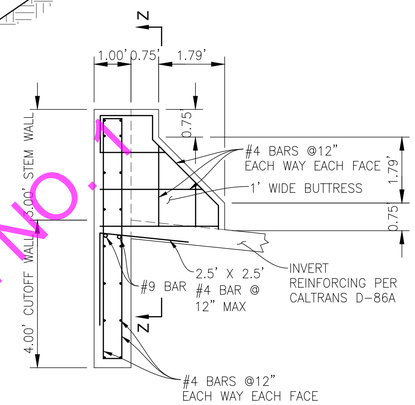
PROJECT NO. 4–0–00009
DRAWING NO. 4–1170
SHEET NO. 28 OF 42

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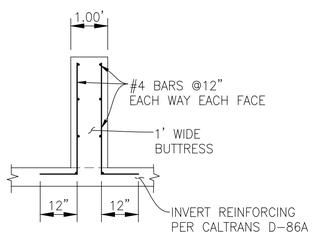
SECTION C–C

HORIZONTAL SCALE: 1"=3'
VERTICAL SCALE: 1"=3'
SEE SHEET 24



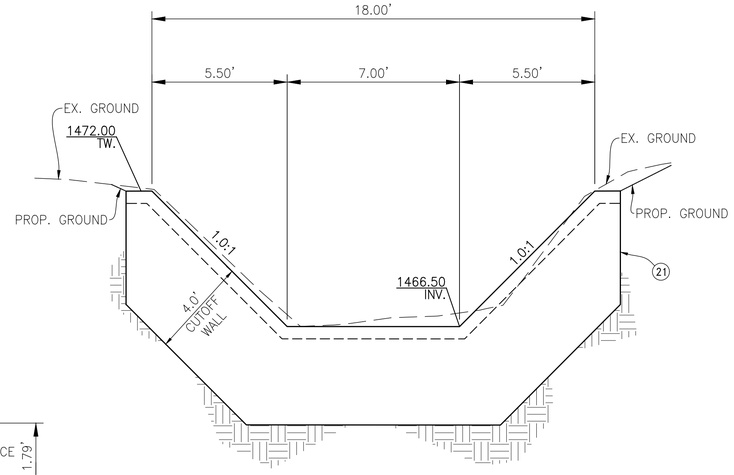
Y–Y

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=2'



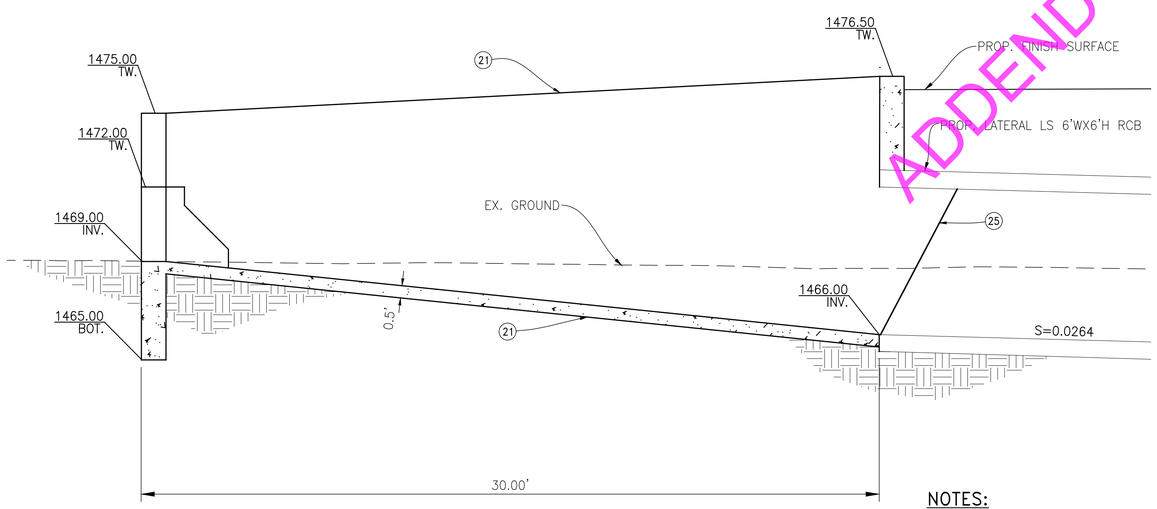
Z–Z

HORIZONTAL SCALE: 1"=2'
VERTICAL SCALE: 1"=2'



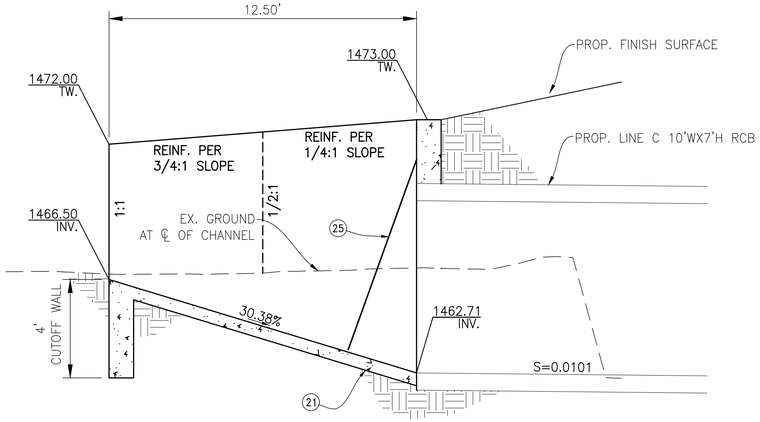
SECTION H–H

HORIZONTAL SCALE: 1"=3'
VERTICAL SCALE: 1"=3'
SEE SHEET 25



SECTION D–D

HORIZONTAL SCALE: 1"=3'
VERTICAL SCALE: 1"=3'
SEE SHEET 24



SECTION I–I

HORIZONTAL SCALE: 1"=3'
VERTICAL SCALE: 1"=3'
SEE SHEET 25

NOTES:

(21) CONSTRUCT RCB CULVERT HEADWALLS, ENDWALLS, AND WARPED WINGWALLS PER CALTRANS STD. PLAN D86A AND DETAIL ON SHEET 27

(24) CONSTRUCT 4' CUT–OFF WALL 6" THICK. WITH #4 BARS 18" ON CENTER

(25) CONSTRUCT SLOPED PROTECTION BARRIER PER STANDARD PLANS FOR PUBLIC WORK CONSTRUCTION 360–2

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JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23

REGISTERED PROFESSIONAL ENGINEER — JOSEPH C. CALDWELL — NO. C67239 — CIVIL — STATE OF CALIFORNIA

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RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

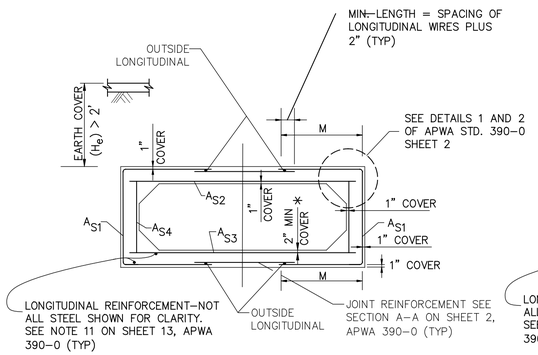
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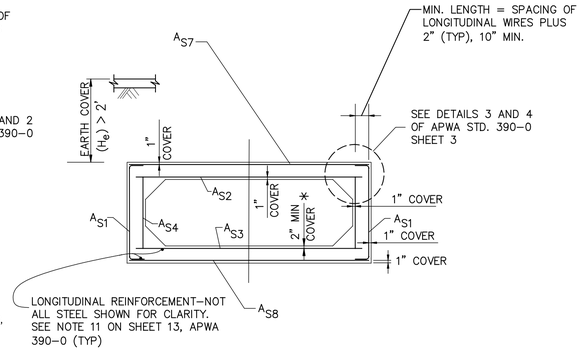
PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
CROSS SECTIONS

PROJECT NO.	4–0–00009
DRAWING NO.	4–1170
SHEET NO.	29 OF 42

H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B GRADING SHEETS.DWG 11/9/2023 8:35:31 AM



PRECAST BOX DETAILS
PER APWA STD. 390–0
NTS



PRECAST BOX ALTERNATIVE STEEL DETAIL
PER APWA STD. 390–0
NTS

PRECAST BOX GEOMETRY			
SPAN x RISE		9'x10.5'	14'x10'
TOP SLAB THICKNESS	Tt	10 IN.	12 IN.
SIDE WALLS THICKNESS	Tw	10 IN.	12 IN.
BOTTOM SLAB THICKNESS	Tb	10 IN.	12 IN.
HAUNCH HORIZONTAL DIMENSION	Hh	12 IN.	12 IN.
HAUNCH VERTICAL DIMENSION	Hv	12 IN.	12 IN.

PRECAST BOX CONCRETE COVER OVER STEEL	EARTH COVER > 2'
TOP SLAB – OUTSIDE FACE	1 IN.
BOTTOM SLAB – OUTSIDE FACE	1 IN.
SIDE WALLS – OUTSIDE FACE	1 IN.
TOP SLAB – INSIDE FACE	1 IN.
BOTTOM SLAB – INSIDE FACE	2 IN.
SIDE WALLS – INSIDE FACE	1 IN.

RCB SIZE	9' S x 10.5' R	14' S x 10' R
FROM STA.	25+80.00	42+30.00
TO STA.	42+00.48	68+56.97
EARTH COVER	2'<He<3'	2'<He<5.5'
REINFORCING DATA – TRANSVERSE	IN.²/FT.	IN.²/FT.
SIDE WALLS – OUTSIDE FACE As1	0.346	0.913
TOP SLAB – INSIDE FACE As2	0.807	1.337
BOTTOM SLAB – INSIDE FACE As3	0.911	1.576
SIDE WALLS – INSIDE FACE As4	0.240	0.288
TOP SLAB – OUTSIDE FACE* As7	0.240	0.288
BOTTOM SLAB – OUTSIDE FACE* As8	0.240	0.288
REINFORCING DATA – DISTRIBUTION		
TOP SLAB – INSIDE FACE As5	N/A	N/A
TOP SLAB – OUTSIDE FACE As6	N/A	N/A
REINFORCING DATA – STIRRUPS		
REQUIRED	NO	NO
DISTANCE "M" (NOTE 1) EARTH COVER GREATER THAN 2'		
ALT1 TOP SLAB – OUTSIDE FACE	10 in.	45 in.
ALT1 BOTTOM SLAB – OUTSIDE FACE	61 in.	44 in.
ALT2 TOP SLAB – OUTSIDE FACE	10 in.	10 in.
ALT2 BOTTOM SLAB – OUTSIDE FACE	10 in.	10 in.

EXTENSION OF AS1 REINFORCEMENT

*NOTE 1: TWO ALTERNATIVES ARE ALLOWABLE FOR RCB FABRICATION. FOR ALTERNATIVE 1 SIDEWALL OUTSIDE FACE STEEL (AS1) SHALL BE BENT AT THE CORNER AND EXTENDED INTO THE TOP/BOTTOM SLAB FOR A DISTANCE OF "M" – WHICH INCLUDES THE DISTANCE TO THE POINT OF ZERO MOMENT PLUS DEVELOPMENT LENGTHS FOR THE AS1 REINFORCING PAST THE LOCATION OF ZERO MOMENT. FOR THIS ALTERNATIVE AS7 AND AS8 MAY BE ELIMINATED

FOR ALTERNATIVE 2 SIDEWALL OUTSIDE FACE STEEL (AS1) SHALL BE BENT AT THE CORNER AND EXTENDED INTO THE TOP/BOTTOM SLAB AS SHOWN ON ALTERNATIVE STEEL DETAIL HEREON. FOR THIS ALTERNATIVE AS7 AND AS8 SHALL BE INCLUDED.

PRIOR TO FABRICATION, SHOP DRAWINGS SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER, SHALL BE SUBMITTED TO AND APPROVED BY THE DISTRICT. STEEL AREA SHALL EQUAL OR EXCEED AREAS SHOWN ON DESIGN TABLE.

PRECAST BOX REINFORCEMENT DATA
WELDED DEFORMED WIRE REINFORCEMENT

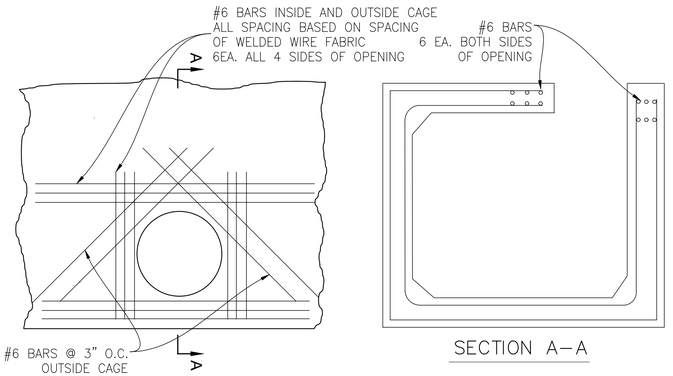
DESIGN NOTES

DESIGN SPECIFICATIONS:
AASHTO LFRD

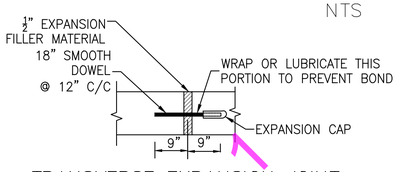
LOADING:
LIVE LOAD – HS–20

EARTH LOAD:
VERTICAL EARTH
PRESSURE: 130 pcf

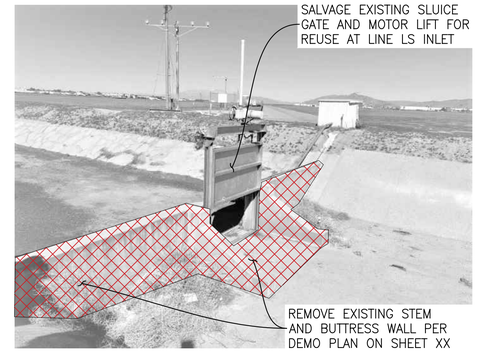
UNIT STRESSES:
f'c = 5,000 psi
fy = 65,000 psi

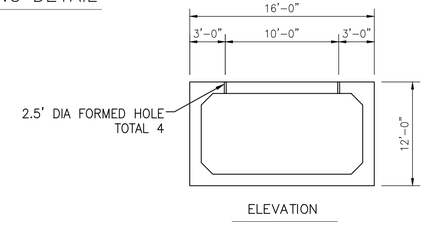


PRECAST RCB MANHOLE OPENING DETAIL
NTS



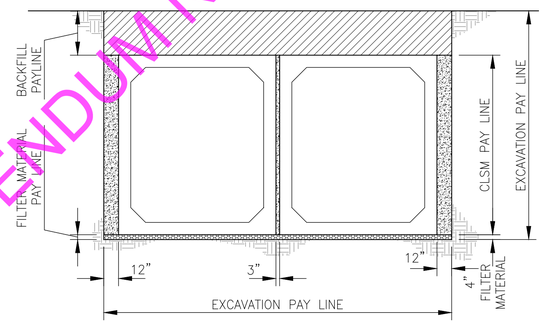
TRANSVERSE EXPANSION JOINT



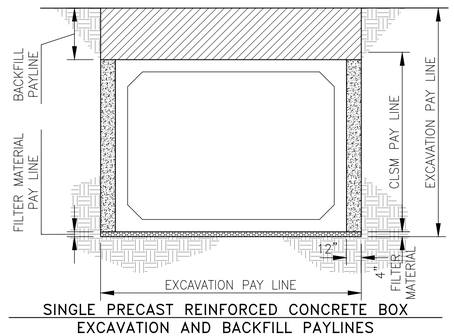


NOTES
1.) LIFTING CABLE MAX.BATTER 4 VERTICAL 1 HORIZONTAL
2.) AREA OF BEARING ON INSIDE SURFACE OF RCB AT A PICK LOCATION SHALL NOT BE LESS THAN 13.6 SQ.IN

PRECAST RCB LIFTING DETAIL
NTS

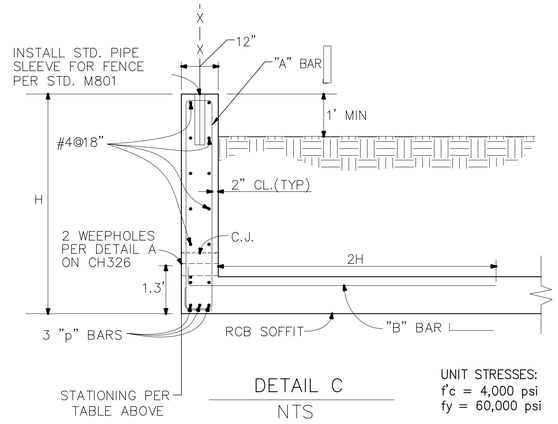


DOUBLE PRECAST REINFORCED CONCRETE BOX
EXCAVATION AND BACKFILL PAYLINES



SINGLE PRECAST REINFORCED CONCRETE BOX
EXCAVATION AND BACKFILL PAYLINES

PARAPET WALL REINFORCEMENT					
CROSSING	"A" BAR	"B" BAR	"p" BAR	H	SPAN
LINE C STA 10+21.25	#5 @ 12"	#5 @ 12"	#5	3.3'	10.0'
LINE LS STA 10+57.67	#5 @ 12"	#5 @ 12"	#4	4.4'	6.1'



DETAIL C
NTS

UNIT STRESSES:
f'c = 4,000 psi
fy = 60,000 psi

ADDENDUM NO. 1

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JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23

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REF.	DESCRIPTION	APPR.	DATE

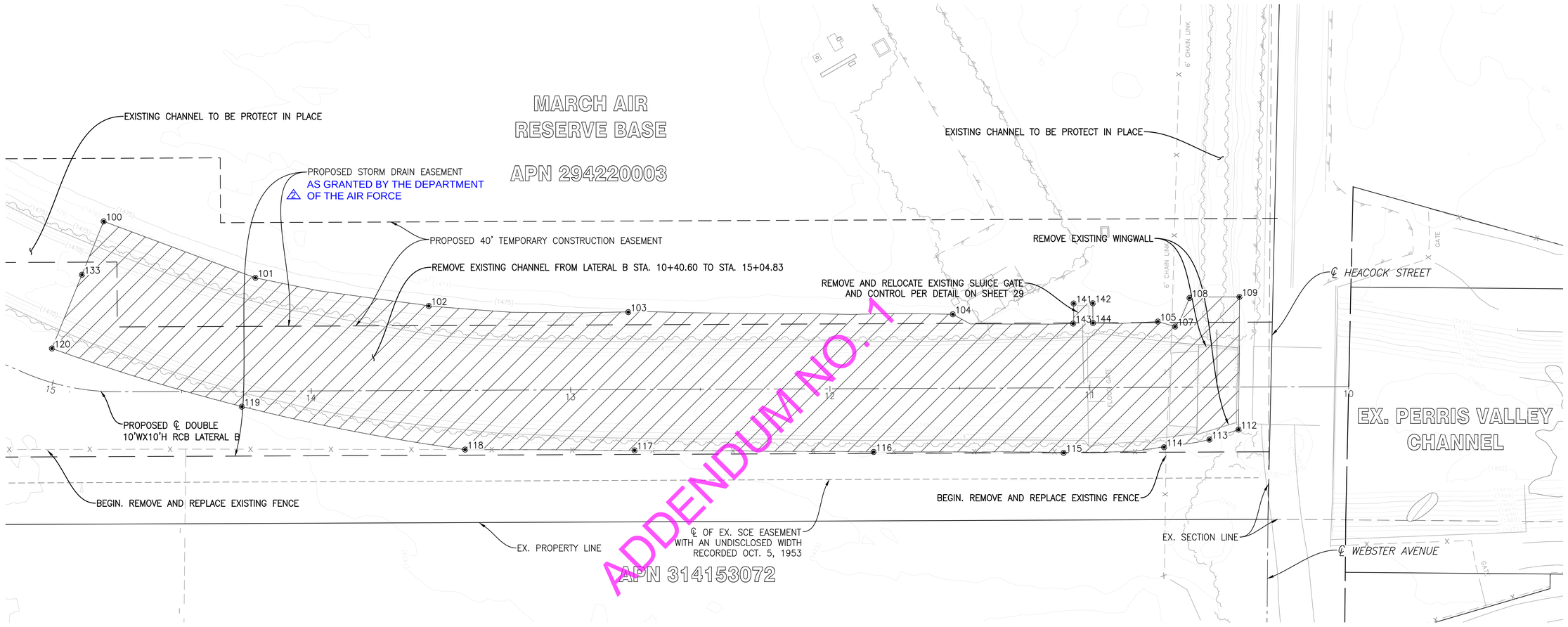
~~RIVERSIDE COUNTY FLOOD~~ CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
STRUCTURAL DETAILS

PROJECT NO.	4–0–00009
DRAWING NO.	4–1170
SHEET NO.	30 OF 42

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COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
100	1476.21	2257774.17	6259488.56	DEMOLITION LIMIT
101	1475.83	2257752.41	6259547.08	DEMOLITION LIMIT
102	1475.70	2257741.55	6259613.93	DEMOLITION LIMIT
103	1475.04	2257739.18	6259690.82	DEMOLITION LIMIT
104	1474.08	2257738.35	6259815.95	DEMOLITION LIMIT
105	1473.26	2257735.53	6259894.99	DEMOLITION LIMIT
107	1473.06	2257733.63	6259901.67	DEMOLITION LIMIT
108	1472.78	2257744.63	6259907.22	DEMOLITION LIMIT
109	1472.01	2257745.06	6259926.48	DEMOLITION LIMIT
112	1472.41	2257693.91	6259926.13	DEMOLITION LIMIT

COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
113	1471.63	2257690.04	6259914.89	DEMOLITION LIMIT
114	1472.00	2257687.09	6259897.41	DEMOLITION LIMIT
115	1472.68	2257684.94	6259858.68	DEMOLITION LIMIT
116	1473.00	2257685.27	6259785.43	DEMOLITION LIMIT
117	1473.03	2257685.87	6259693.25	DEMOLITION LIMIT
118	1473.52	2257686.18	6259627.90	DEMOLITION LIMIT
119	1473.92	2257702.73	6259541.84	DEMOLITION LIMIT
120	1474.40	2257725.18	6259468.61	DEMOLITION LIMIT
133	1468.86	2257753.60	6259480.19	DEMOLITION LIMIT
141	1473.31	2257742.50	6259862.54	DEMOLITION LIMIT

COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
142	1473.21	2257742.59	6259869.91	DEMOLITION LIMIT
143	1473.73	2257734.77	6259862.33	DEMOLITION LIMIT
144	1473.56	2257734.99	6259870.00	DEMOLITION LIMIT

N

20' 0 20'

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/2023
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free: 1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

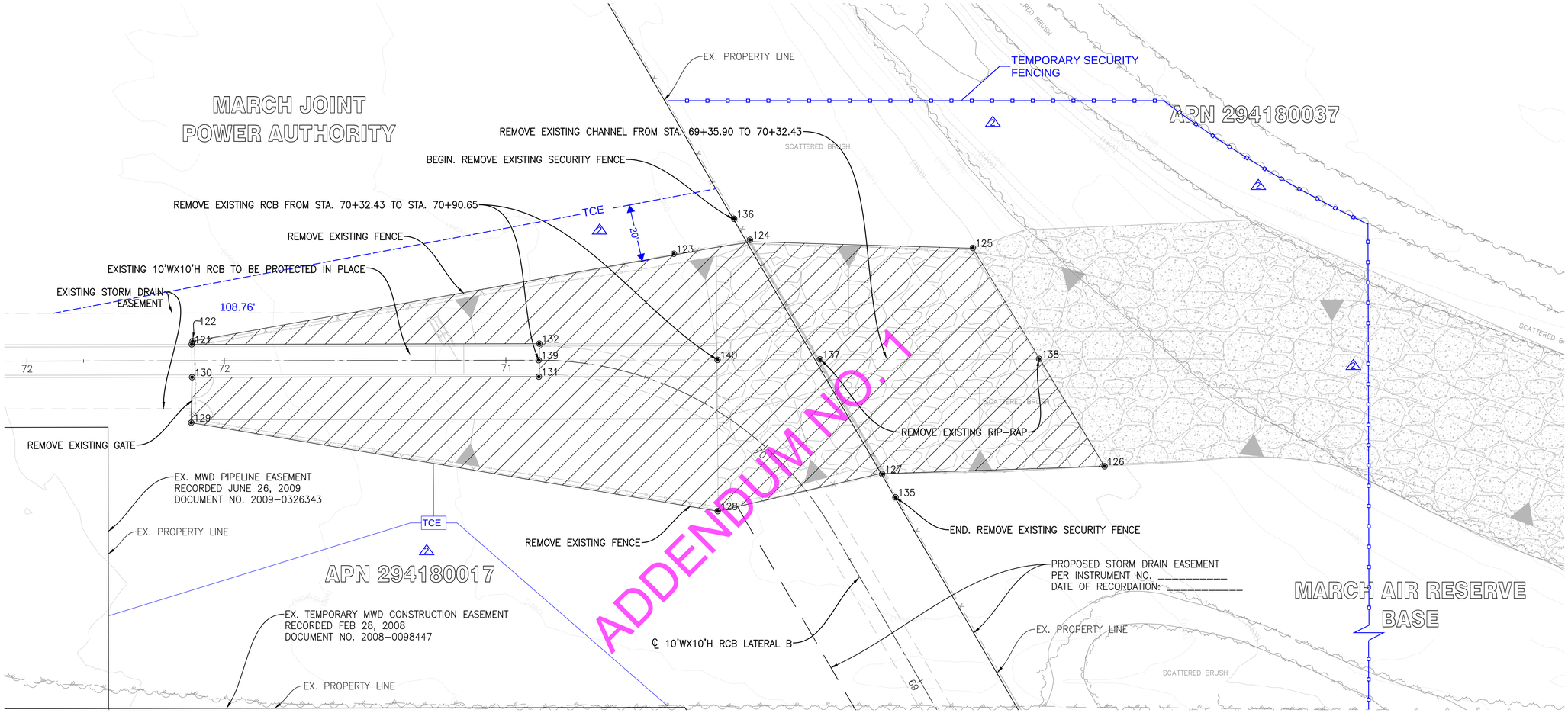
REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
2	ADD EASEMENT DATA	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
DOWNSTREAM DEMOLITION PLAN

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 31 OF 42

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COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
121	1504.08	2261864.85	6256058.67	DEMOLITION LIMIT
122	1504.08	2261865.99	6256059.01	DEMOLITION LIMIT
123	1502.10	2261897.06	6256229.89	DEMOLITION LIMIT
124	1501.69	2261902.02	6256256.94	DEMOLITION LIMIT
125	1500.09	2261899.14	6256336.08	DEMOLITION LIMIT
126	1500.17	2261821.53	6256382.85	DEMOLITION LIMIT
127	1501.53	2261818.81	6256303.87	DEMOLITION LIMIT
128	1502.23	2261805.61	6256245.51	DEMOLITION LIMIT
129	1504.68	2261837.02	6256058.50	DEMOLITION LIMIT
130	1504.27	2261853.19	6256058.81	DEMOLITION LIMIT

COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
131	1502.52	2261853.37	6256181.96	DEMOLITION LIMIT
132	1502.83	2261865.12	6256182.08	DEMOLITION LIMIT
135	1501.58	2261810.53	6256308.61	DEMOLITION LIMIT
136	1501.73	2261909.48	6256251.29	DEMOLITION LIMIT
137	1501.43	2261859.56	6256281.80	DEMOLITION LIMIT
138	1500.37	2261859.70	6256359.64	DEMOLITION LIMIT
139	1502.66	2261859.24	6256181.90	DEMOLITION LIMIT
140	1501.80	2261859.35	6256245.40	DEMOLITION LIMIT

N

20' 0 20'

MJPA

MJPA CONTRACT ENGINEER

NOVEMBER 21, 2023
DATE:

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256

JOSEPH C. CALDWELL, RCE 67239 DATE: 11/13/23

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

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1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
2	ADD TCE, TEMP. FENCE	E.A.	7/8/25

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

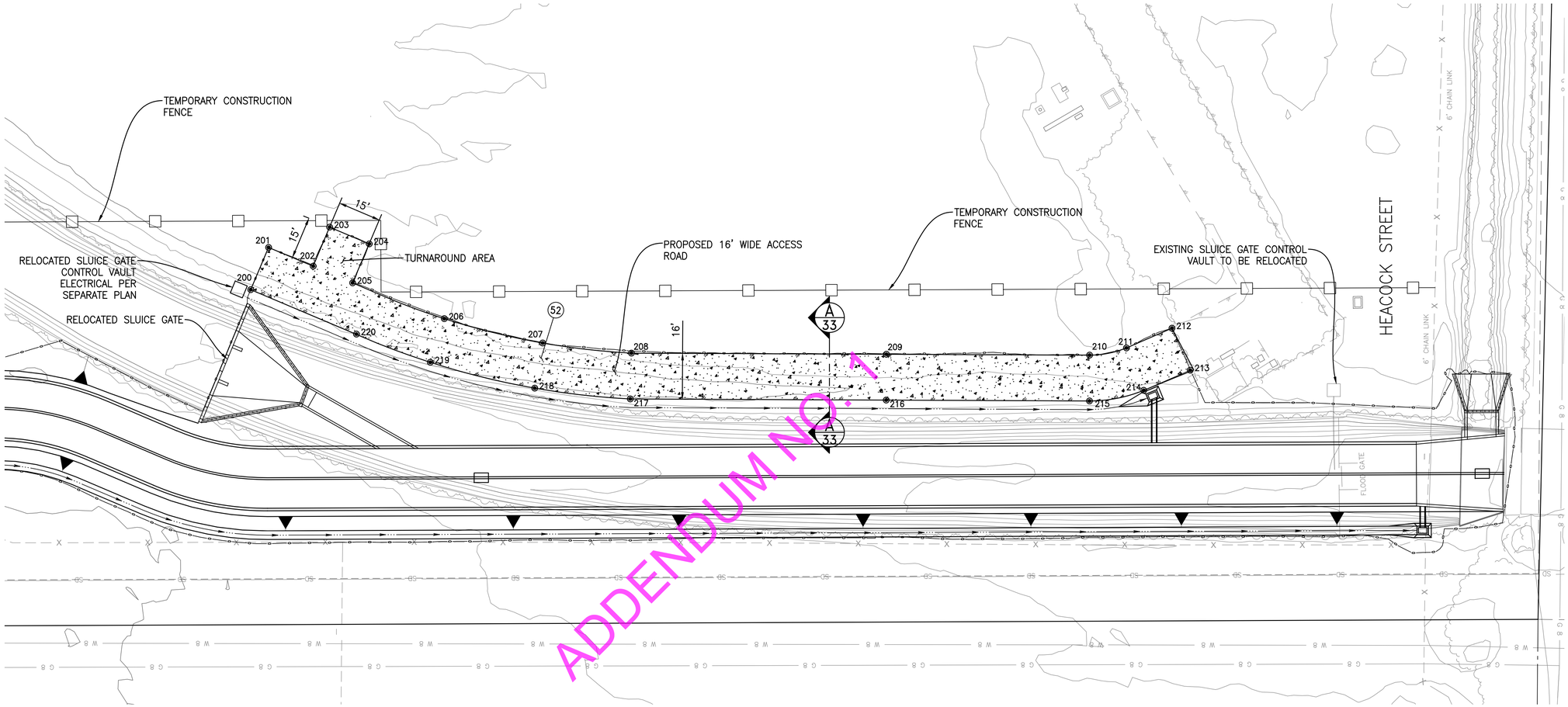
RECOMMENDED FOR APPROVAL BY: _____ DATE: 11/20/23

APPROVED BY: _____ DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
UPSTREAM DEMOLITION PLAN

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 32 OF 42

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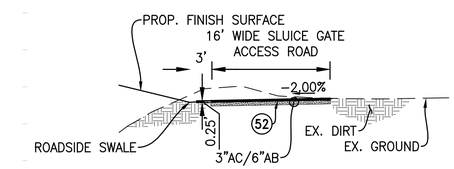
ADDENDUM NO. 1

COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
200	1474.59	2257774.48	6259488.09	ACCESS ROAD
201	1474.25	2257789.22	6259494.33	ACCESS ROAD
202	1474.19	2257782.66	6259509.89	ACCESS ROAD
203	1474.14	2257796.32	6259515.63	ACCESS ROAD
204	1474.10	2257790.45	6259529.46	ACCESS ROAD
205	1474.04	2257776.85	6259523.66	ACCESS ROAD
206	1473.92	2257764.34	6259555.66	ACCESS ROAD
207	1473.80	2257755.85	6259590.00	ACCESS ROAD
208	1473.70	2257752.31	6259620.98	ACCESS ROAD
209	1473.39	2257751.91	6259710.00	ACCESS ROAD
210	1473.15	2257751.59	6259780.91	ACCESS ROAD

COORDINATE TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
211	1473.10	2257754.12	6259793.76	ACCESS ROAD
212	1473.04	2257761.02	6259809.67	ACCESS ROAD
213	1472.72	2257746.35	6259816.04	ACCESS ROAD
214	1472.78	2257739.30	6259799.81	ACCESS ROAD
215	1472.83	2257735.59	6259780.87	ACCESS ROAD
216	1473.07	2257735.91	6259709.93	ACCESS ROAD
217	1473.38	2257736.31	6259620.60	ACCESS ROAD
218	1473.48	2257740.09	6259587.23	ACCESS ROAD
219	1473.60	2257749.10	6259550.77	ACCESS ROAD
220	1473.69	2257758.93	6259525.00	ACCESS ROAD

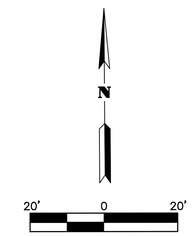
CONSTRUCTION NOTES

(52) CONSTRUCT ASPHALT CONCRETE ACCESS ROAD WITH 3"/6" STRUCTURAL SECTION PER DETAILS ON SHEET 26.



SECTION A-A

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'



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FAX (951) 788-1256

JOSEPH C. CALDWELL, RCE 67239 DATE: 11/13/23

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/2023
CHECKED BY:	ETH/SZ
P8 NUMBER:	238474

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DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	DESCRIPTION	APPR.	DATE
	REVISIONS		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

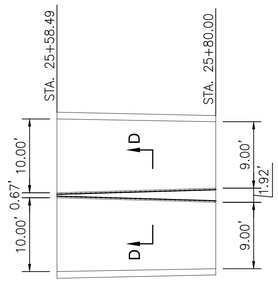
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
ACCESS ROAD EXHIBIT

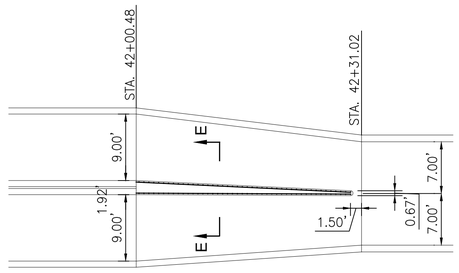
PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	33 OF 42

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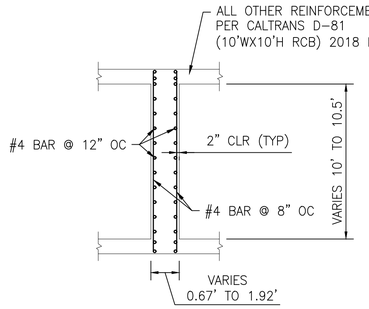
MODIFIED TRANSITION STRUCTURE #4 PIER DETAIL

DOUBLE 10'WX10'H CIP RCB TO DOUBLE 9'WX10.5'H PRECAST RCB
SEE SHEET 6
SCALE: 1"=10'



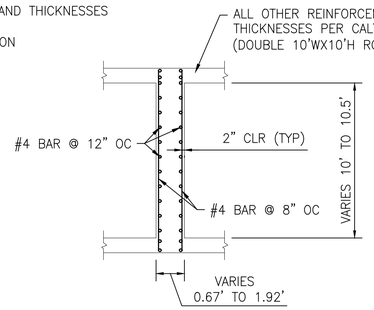
MODIFIED TRANSITION STRUCTURE #4 PIER DETAIL

DOUBLE 9'WX10.5'H PRECAST RCB TO 14'WX10'H PRECAST RCB
SEE SHEET 10
SCALE: 1"=10'



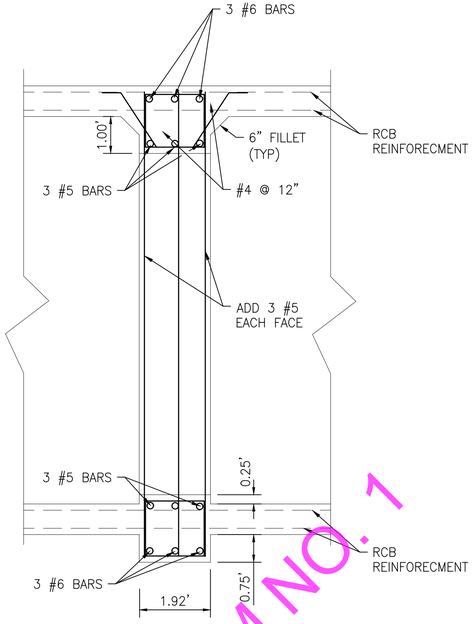
D–D

SCALE: 1"=5'



E–E

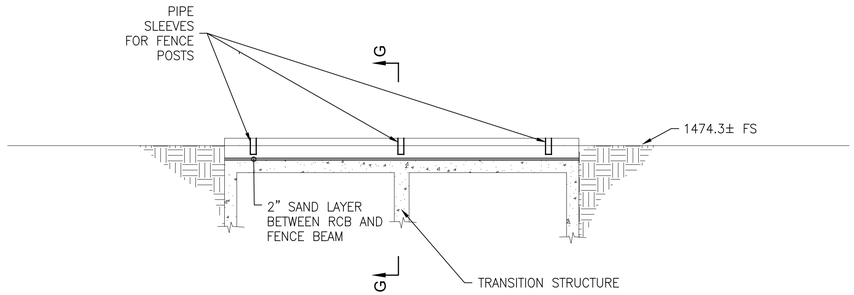
SCALE: 1"=5'



MODIFIED SPPWC STD DWG 382-2
SECTION A–A – ALL OTHER DIMENSIONS AND REINFORCEMENT PER STANDARD PLAN

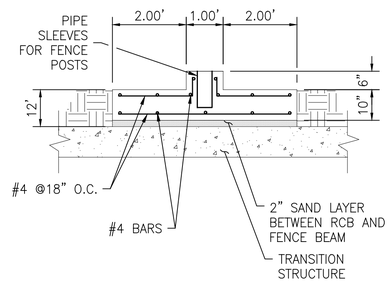
MODIFIED FLOW EQUALIZING WINDOW DETAIL

SCALE: 1"=2'



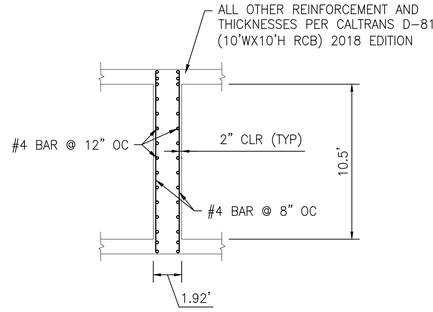
FENCE POLES OVER TRANSITION STRUCTURE DETAIL

SEE SHEET 2
SCALE: 1"=5'



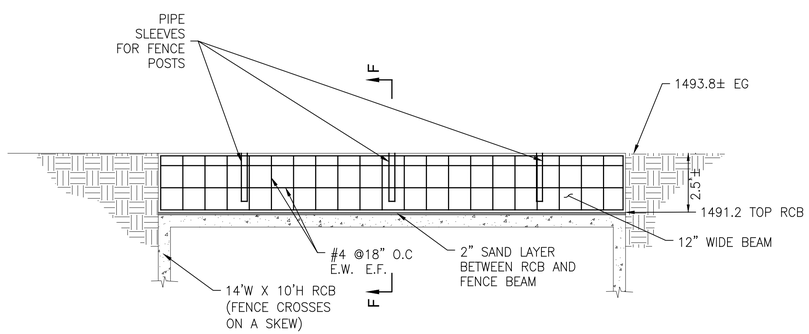
G–G

SCALE: 1"=2'



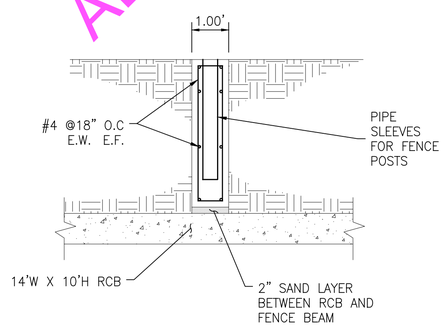
DETAIL H

SEE CONSTRUCTION NOTE 41 ON SHEET 8 FOR LATERAL B-8 JUNCTION
SCALE: 1"=5'



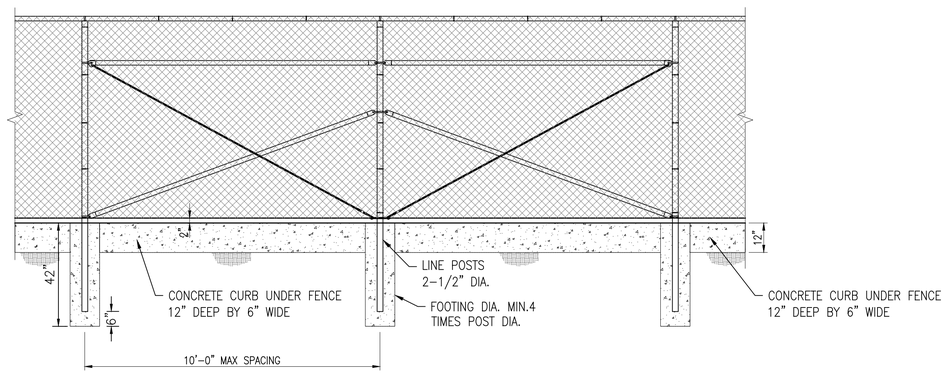
AIRFORCE FENCE POSTS DETAIL

SEE CONSTRUCTION NOTE 50 ON SHEET 13
SCALE: 1"=5'



F–F

SCALE: 1"=2'



CONCRETE CURB UNDER SECURITY FENCE

SCALE: 1"=2/3'

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
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3788 McCRAY STREET
RIVERSIDE CA. 92506
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FAX (951) 788-1256
JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23

REGISTERED PROFESSIONAL ENGINEER — JOSEPH C. CALDWELL — NO. C67239 — CIVIL — STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
P/B NUMBER:	238474

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DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REF.	REVISIONS	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: _____ DATE: 11/20/23

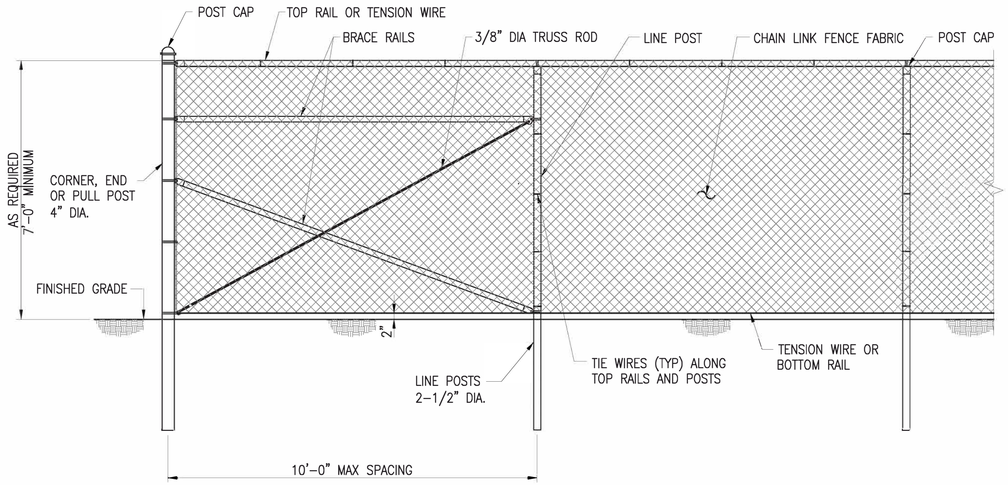
APPROVED BY: _____ DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
ADDTIONAL DETAILS

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	34 OF 42

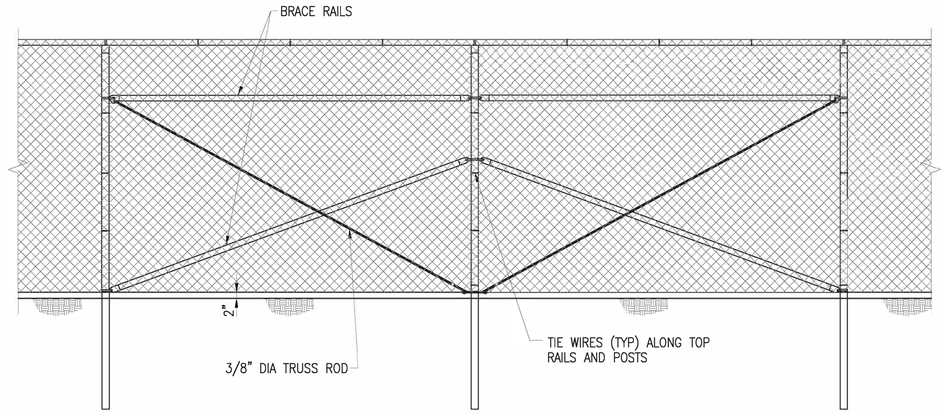
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AIRFORCE BASE SECURITY FENCE PER USC-700 AND 701 - CHAIN LINK FENCE AND DETAILS



TYPICAL FENCE AND CORNER PANEL ELEVATION

SCALE: 1" = 1'-0"

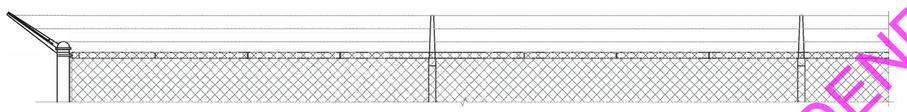


TYPICAL FENCE AND BRACED PANEL ELEVATION

SCALE: 1" = 1'-0"

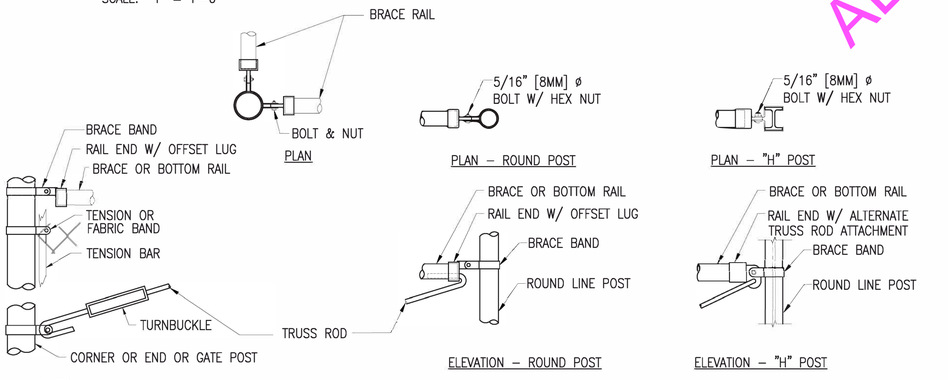
NOTE (1): A BOTTOM RAIL CAN BE ADDED FOR SECURITY, IT SHALL BE INSTALLED APPROX 3" ABOVE GRADE (A MINIMUM OF 2" AND A MAXIMUM OF 4"). HARDWARE SHALL BE WELDED OR SHOT NAILED TO POSTS AND RAILS IN ORDER TO SECURE IN PLACE. ATTACH FABRIC TO NEW BOTTOM RAIL TO ELIMINATE POSSIBILITY OF PEELING UP FABRIC.

NOTE (2): SOME LOCATIONS MAY REQUIRE 8' OF FABRIC.



TYPICAL 3 STRAND BARBED WIRE AND SINGLE EXTENSION ARM CONFIGURATION

SCALE: 1" = 1'-0"



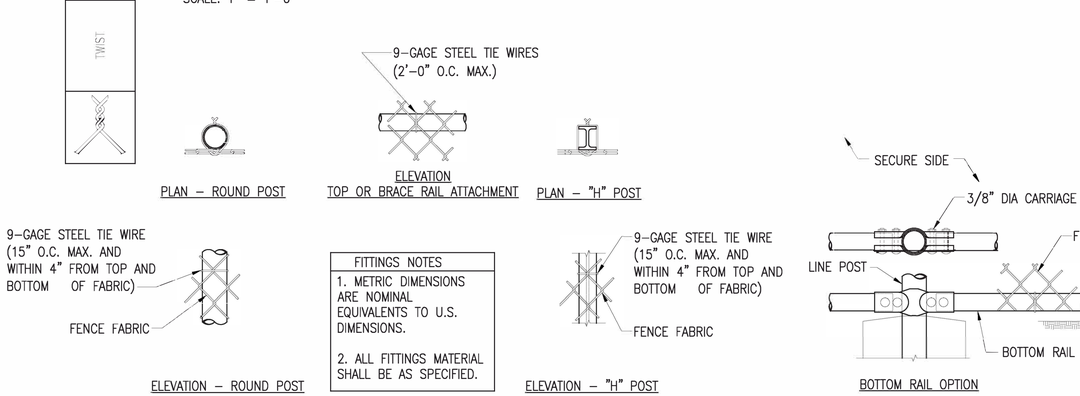
CORNER OR END POSTS

SCALE: 1 1/2" = 1'-0"

LINE POST DETAILS

SCALE: 1 1/2" = 1'-0"

T & B SELVAGE
TWIST



FITTINGS NOTES
1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
2. ALL FITTINGS MATERIAL SHALL BE AS SPECIFIED.

TYPICAL 6 STRAND BARBED WIRE AND DOUBLE EXTENSION ARM CONFIGURATION

SCALE: 1" = 1'-0"

ADDENDUM NO. 1

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JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23
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DESIGNED BY:	JCC
DRAWN BY:	EX
CONSTR. SET:	11/8/23
CHECKED BY:	ETH/SZ
PB NUMBER:	238474

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DN. 0.35'
ELEV. 1471.34
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REF.	REVISIONS	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

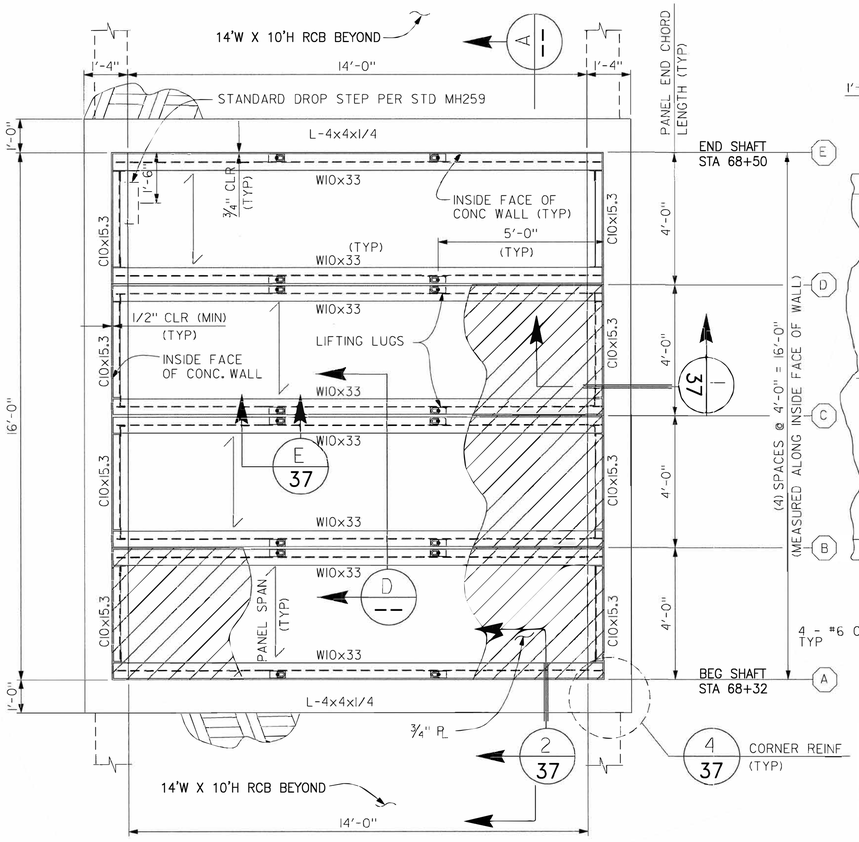
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
AIRFORCE BASE SECURITY FENCE DETAILS

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	35 OF 42

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ACCESS OPENING - PLAN

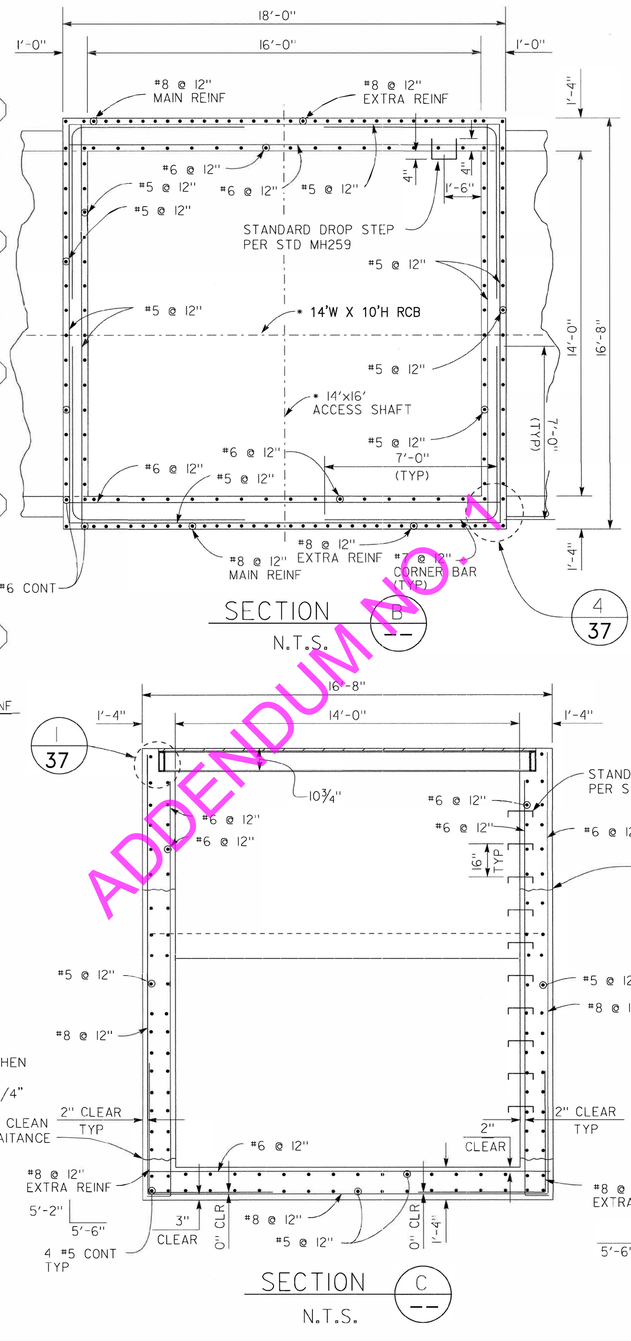
N.T.S.

NOTES:

1. ALL STEEL AND CONNECTIONS TO BE GALVANIZED.

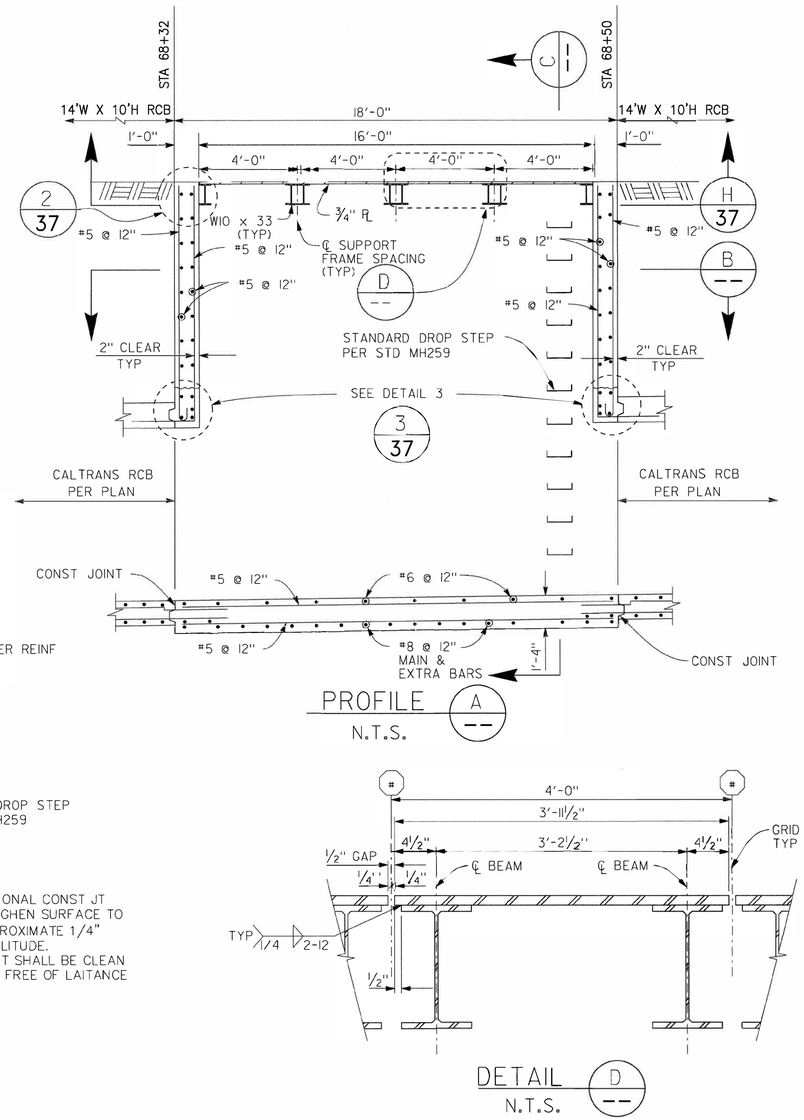
LEGEND

(#) GRID LINE



SECTION B

N.T.S.



PROFILE A

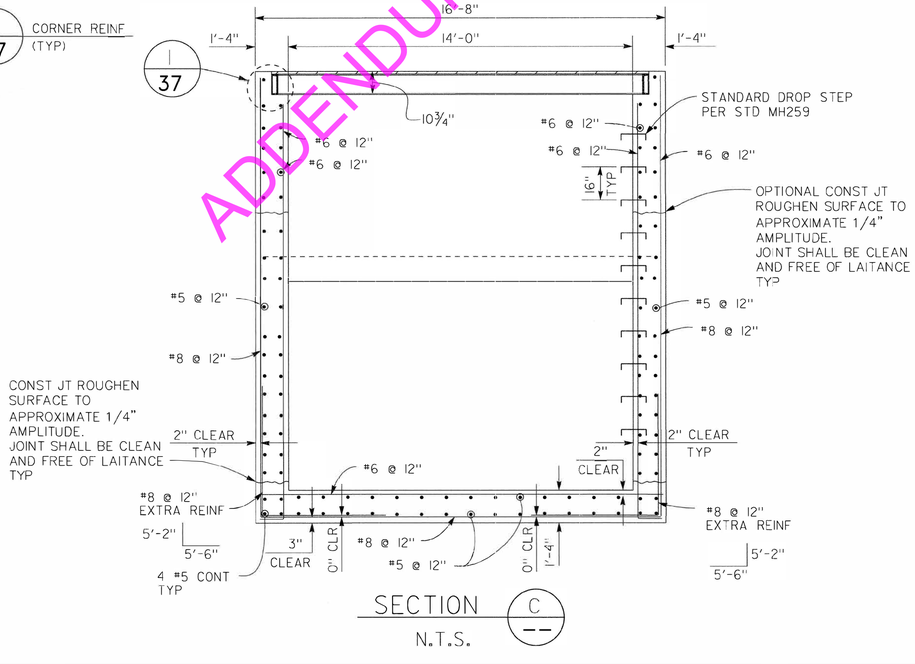
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DETAIL D

N.T.S.

NOTES

1. FOR MANHOLE ELEVATIONS, STATIONS AND WALL HEIGHTS SEE PLAN AND PROFILE.



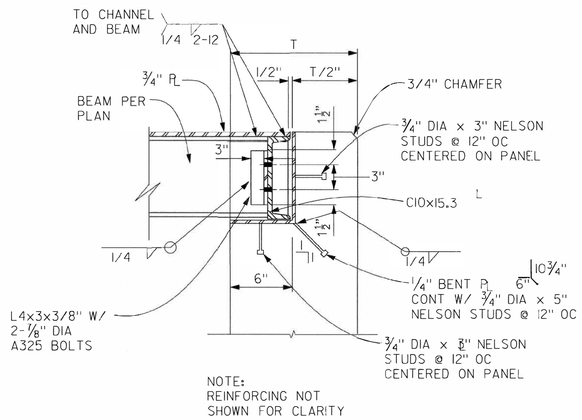
SECTION C

N.T.S.

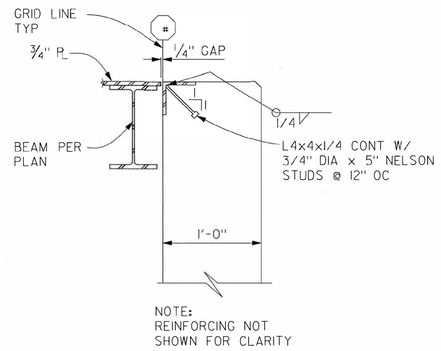
ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES ENGINEERING CONSULTANTS 3788 McCRAY STREET RIVERSIDE CA. 92506 PH. (951) 686-1070 FAX (951) 788-1256 JOSEPH C. CALDWELL, RCE 67239 DATE: 11/8/23	DESIGNED BY: JCC DRAWN BY: JCC CONSTR. SET: 11/8/23 CHECK'D BY: ETH/SZ PB NUMBER: 2753474	Don't Dig...Until You Call: U.S.A. Toll Free: 1-800-422-4133 for the location of buried utility lines. Do't disrupt vita l services TWO WORKING DAYS BEFORE YOU DIG	PERMANENT BENCH MARK: Z17500 1/2" IRON ROD W/RCFC TRI STA CAP DN. 0.35' ELEV. 14:71.34 VERTICAL DATUM-NGVD 29	REVISIONS REF. DESCRIPTION APPR. DATE	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23 APPROVED BY: DATE: 11/20/23	PERRIS VALLEY CHANNEL LATERAL B, STAGE 4 ACCESS SHAFT DETAIL	PROJECT NO. 4-0-00009 DRAWING NO. 4-1170 SHEET NO. 36 OF 42

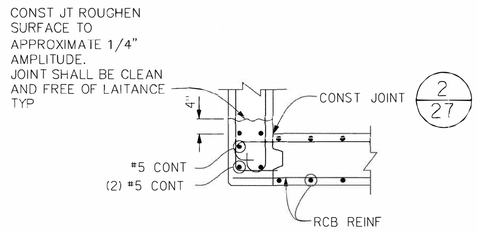
H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B ADDITIONAL DETAILS.DWG 11/8/2023 11:07:14 AM



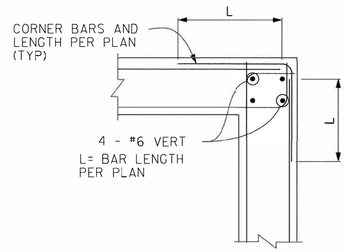
DETAIL 1 / N.T.S.



DETAIL 2 / N.T.S.

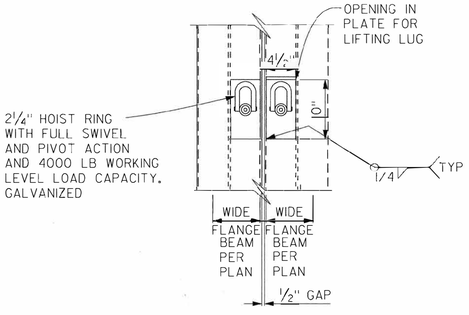


DETAIL 3 / N.T.S.

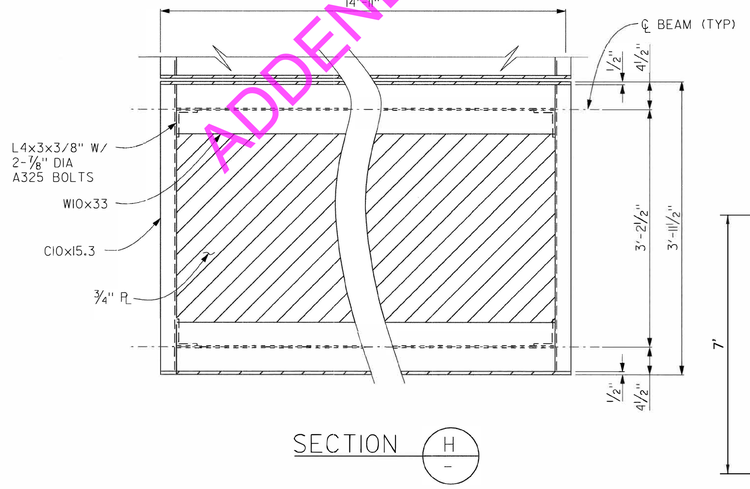


CORNER REINF 4 / N.T.S.

SECTION E / N.T.S.



PARTIAL PLAN F / N.T.S.



SECTION H / -

ILS ZONE FENCE DETAIL
SCALE: N.T.S.

ADDENDUM NO. 1

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256
JOSEPH C. CALDWELL, LRCE 67239 DATE: 11/8/23
REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	JCC
DRAWN BY:	JCC
CONSTR. SET:	11/8/23
CHECK'D BY:	ETH/SZ
PB NUMBER:	238474

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PERMANENT BENCH MARK:
Z17500
1/2" IRON ROD W/RCFC TRI STA CAP
DN. 0.35'
ELEV. 1471.34
VERTICAL DATUM-NGVD 29

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
ACCESS SHAFT DETAIL

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	37 OF 42

H:\2021\21-0137\DRAWINGS\PLAN SHEETS\21-0137 LAT B ADDITIONAL DETAILS.DWG 11/8/2023 11:07:14 AM

ELECTRICAL LEGENDS AND SYMBOLS

SYMBOL	DESCRIPTION
	CONDUIT, (MIN. 3/4") WITH- #12 CONDUCTORS, NUMBER INDICATED EXCLUDING REQUIRED GROUND WIRE.
CRT.#	CONDUIT, (MIN. 3/4") WITH- #12 CONDUCTORS, NUMBER INDICATED EXCLUDING REQUIRED GROUND, TO LP, CRT. NUMBER AS SHOWN.
	CONDUITS, (MIN. 3/4") RUN EXPOSED, UNLESS NOTED OTHERWISE.
	CONDUITS, (MIN. 3/4") RUN CONCEALED. UNDERGROUND, UNDER CONCRETE OR IN CONCRETE, UNLESS NOTED OTHERWISE.
E	ELECTRICAL DUCT BANK
	DISCONNECT SWITCH (NON-FUSED)
	FUSED DISCONNECT SWITCH
225AF 100AT 3P	THERMAL MAGNETIC BREAKER, 225 INDICATES FRAME SIZE, 100 INDICATES TRIP SIZE, 3 POLES UNLESS NOTED OTHERWISE
MCP	MOTOR CIRCUIT PROTECTOR SIZE BY MANUFACTURER BASED ON MOTOR FURNISHED
	TRANSFORMER
2	FULL VOLTAGE NON-REVERSING COMBINATION MOTOR STARTER, WITH MOTOR CIRCUIT PROTECTOR AND AIR CONTRACTORS. SIZE O MINIMUM WITH ELECTRONIC OVERLOADS AND AUXILIARY CONTACTS (MINIMUM ONE N.C. AND ONE N.O.) OR AS REQUIRED FOR CONTROL, WITH ONE SPARE N.O. AND ONE SPARE N.C. SUBSCRIPT INDICATES NEMA SIZE
VFD CT	VARIABLE FREQUENCY DRIVE, VARIABLE TORQUE UNLESS NOTED "CT" FOR CONSTANT TORQUE, WITH CIRCUIT BREAKER OR MCP PER MANUFACTURE RECOMMENDATIONS, AND IN LINE FUSES. REFER TO SPECIFICATIONS FOR TEMPERATURE RATING, BYPASS CONTACTS, HARMONIC DISTORTION EQUIPMENT, ETC..
SS	REDUCED VOLTAGE SOLID STATE MOTOR CONTROLLER WITH SHUNTING CONTACTORS AND SOLID STATE OVERLOAD PROTECTION UNO.
	THERMAL OVERLOAD RELAY
M 2	MOTOR (NUMBER INDICATES HORSEPOWER)
	GROUND WELL
J	JUNCTION BOX, CROUSE-HINDS, APPLETON OR EQUAL CAST CONDULET DEVICE BOX SURFACE MOUNTED ON WALL OR CEILING OR UNISTRUT FLOOR MOUNTED AND WATERPROOF OUT OF DOORS. MIN. TWO GANG SIZE WITH SOLID COVER. PROVIDE LARGER IF NECESSARY FOR SPLICING.
JX	EXPLOSION PROOF NEMA 7 JUNCTION BOX. SIZE AS SPECIFIED OR AS REQUIRED FOR CONDUCTORS INSTALLED.
J	JUNCTION BOX, MINIMUM 4"x4"x3". PROVIDE LARGER SIZE WHERE SPECIFIED OR REQUIRED FOR CONDUCTOR SIZE. NEMA 4X STAINLESS STEEL INDOORS AND OUT OF DOORS.
T1	COOLING TYPE LINE VOLTAGE THERMOSTAT., 120V WITH CONTACTS RATED MIN. 7 AMP AND 2° DIFFERENTIAL, DAYTON HEAVY DUTY WITH ON-OFF SWITCH AND JUNCTION BOX WALL MOUNTED AT 5'-6" ABOVE FINISH FLOOR
T2	LINE VOLTAGE THERMOSTAT MOUNTED IN MCC OR DISTRIBUTION PANEL. COOLING TYPE FOR EXHAUST OR SUPPLY FAN WITH 15° F. DIFFERENTIAL DAYTON, CHROMALOX, OR EQUAL. HEATING TYPE FOR STRIP HEATER WITH 3° TO 10° F. DIFFERENTIAL DAYTON, CHROMALOX, OR EQUAL.
T3	TWO STAGE COOLING LINE VOLTAGE THERMOSTAT WITH MIN. 5 AMP CONTACTS, HIGH AND LOW SET POINTS FOR WALL MOUNT JUNCTION **BOX.**
T4	AIR CONDITIONER SYSTEM THERMOSTAT.
T	TIMER, LINE VOLTAGE TYPE, 24 HOUR WITH 15 MIN. INTERVALS ON-OFF SWITCH AND MANUAL START SWITCH WATERPROOF LOCK-OUT-STOP, HEAVY DUTY, NEMA 4 TYPE WITH LOCK OUT IN STOP POSITION.
LOS	LOCK-OUT STOP NEMA 4X ENCL. (STAINLESS STEEL).
ES	SUBMERSIBLE EMERGENCY STOP MOMENTARY CONTACT PUSH BUTTON STATION NEMA TYPE 6 OR IP 67.
F	DEVICE BOX WITH DUPLEX CONVENIENCE RECEPTACLE, 1 POLE (UNLESS NOTED OTHERWISE), 120 VOLTS AC MTG HT 18" ABOVE FLOOR UNLESS NOTED OTHERWISE. (F- INDICATES FLOOR MOUNTED, H- HAZARDOUS AREA EXPLOSION PROOF, WP- OUTDOOR WEATHER PROOF, GFI- GROUND FAULT INTERRUPTER). RECESS INTO STUD WALLS, SURFACE MOUNT ON MASONRY OR CONCRETE WALL, AND PROVIDE WATERPROOF IF OUT OF DOORS.

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST CODE OF FEDERAL REGULATIONS (CFR), NATIONAL ELECTRICAL CODE EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
2. ALL WORK IS NEW UNLESS NOTED OTHERWISE.
3. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE TO UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.
4. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
5. WHERE EXISTING CIRCUITS OR DEVICES ARE DEMOLISHED, MODIFIED, OR REUSED, ENSURE ALL EXISTING ELECTRICAL UTILIZATION DEVICES TO REMAIN ARE ENERGIZED UPON COMPLETION OF WORK.
6. CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
7. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
8. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
9. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL COMPLY WITH N.E.C. REQUIREMENTS.
10. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE, NEMA 3R.
11. DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY.
12. ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
13. ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB's, SWITCHES, CONTACTORS, ETC.), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:

    a. 100A OR LESS : 60°C OR MORE;
    b. MORE THAN 100A : 75°C OR MORE.
14. ANY ERRORS, OMISSIONS, OR DESIGN DISCREPANCIES ON PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION PRIOR TO CONSTRUCTION AND PREPARATION OF SUBMITTAL PACKAGES.
15. CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC.(UL) LISTED, 600 VOLT INSULATION OF TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS. CONDUCTORS SHALL BE COPPER AND LISTED FOR 90 DEGREE APPLICATIONS.

    1. BRANCH CIRCUITS - POWER.
    a. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN-2, THHW(THHN FOR DRY LOCATION ONLY).
    b. #8 AWG TO #2 AWG, STRANDED TYPE THW OR THHN/THHW.
    c. #1 AWG AND LARGER, STRANDED TYPE XHHW-2.

    2. FEEDERS : TYPE THW OR THHN/THWN-2, OR XHHW-2.
16. PROVIDE GREEN INSULATED GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, WIREMOLD. SIZE OF GROUNDING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 250.
17. WIRING METHOD SHALL BE PVC COATED RGS CONDUIT ABOVE GROUND AND MOUNTED IN CONCEALED SPACES AND SCHEDULE-40 PVC FOR UNDERGROUND INSTALLATION. USE RIGID WHEN ENCASED IN CONCRETE OR SUSCEPTIBLE TO DAMAGE.
18. UNLESS OTHERWISE INDICATED, SHARING OF NEUTRAL/GROUNDED CONDUCTORS AMONG SINGLE PHASE BRANCH CIRCUITS OF DIFFERENT PHASES INSTALLED IN THE SAME RACEWAY IS NOT PERMITTED. PROVIDE DEDICATED NEUTRAL/GROUNDED CONDUCTOR FOR EACH INDIVIDUAL BRANCH CIRCUIT.
19. BASIS OF ELECTRICAL DESIGN LIMITS VOLTAGE DROP TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS. ANY CHANGES MADE IN THE FIELD SHALL LIMIT VOLTAGE DROP TO THESE PERCENTAGES.
20. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUITS REQUIRED FOR ALL BRANCH CIRCUITS AND FEEDERS. FOR CIRCUIT SIZES NOT SHOWN, REFER TO PANEL SCHEDULES FOR CONDUCTOR AND CONDUIT SIZES.

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET TITLE
E-1	ELECTRICAL LEGENDS AND NOTES
E-2	SINGLE LINE DIAGRAM
E-3	ELECTRICAL DEMOLITION SITE PLAN
E-4	ELECTRICAL REMODEL SITE PLAN
E-5	ELECTRICAL DETAILS

ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME RATING (CIRCUIT BREAKER)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFU	AMPERE FUSE RATING (FUSE)
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMPERE SWITCH RATING (FUSE)
AT	AMPERE TRIP RATING (CIRCUIT BREAKER)
AWG	AMERICAN WIRE GAUGE
BKBD	BACKBOARD
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CFSD	COMBINATION FIRE SMOKE DAMPER
CO	CONDUIT ONLY
CONC	CONCRETE
CT	CURRENT TRANSFORMER
CU	COPPER
CL	CENTERLINE
DISC	DISCONNECT
DSBN	DISTRIBUTION SECTION
DN	DOWN
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EXIST, (E)	EXISTING
EXO	EXTERNAL OPERABLE DISCONNECT
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FF	FINISHED FLOOR
FG	FINISHED GRADE
FLA	FULL LOAD CURRENT
FLUOR	FLUORESCENT
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HV	HIGH VOLTAGE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED/INSULATED GROUND
INCAND	INCANDESCENT
ISC	SHORT CIRCUIT CURRENT AVAILABLE IN RMS SYMMETRICAL AMPERES
J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATT
KV	KILO VOLT
KVA	KILO VOLT-AMPERE
LDC	LOCAL DISTRIBUTION CABINET
LDF	LOCAL DISTRIBUTION FRAME
LCL	LONG CONTINUOUS LOAD
LTG	LIGHTING
LV	LOW VOLTAGE
MFR	MANUFACTURER
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MH	MANHOLE / METAL HALIDE
M/M	METER AND MAIN SECTION
MULTI	MULTI-METER SECTION
MV	MEDIUM VOLTAGE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NEW (N)	NEW, TO BE FURNISHED AND INSTALLED BY CONTRACTOR
NF	NON-FUSED
NIC	NOT IN CONTRACT
N/L	NIGHT LIGHT
NL	NEW LOCATION
NO	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PB	PULL BOX
PF	POWER FACTOR
PNL	PANEL
POC	POINT OF CONNECTION
PP	POWER POLE
PWR	POWER
PVC	POLYVINYL CHLORIDE
QUAD	QUADRUPLEX
QTY	QUANTITY
REQD	REQUIRED
REQMT	REQUIREMENT
RGS	RIGID GALVANIZED STEEL
RL	RELOCATE
RMC	RIGID METALLIC CONDUIT
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
SHT	SHEET
SN	SOLID NEUTRAL
SPEC	SPECIFICATIONS
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TEL	TELEPHONE
TERM	TERMINAL
TP	TEMPORARY POLE
TYP	TYPICAL
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VA	VOLT-AMPERE
VFC	VARIABLE FREQUENCY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WH	WATT-HOUR
WP	WEATHERPROOF
WT	WEATHERTIGHT
WW	WIREWAY
XP	EXPLOSION PROOF
Z	IMPEDANCE
4W	FOUR-WIRE
3W	THREE-WIRE
5S	JUNCTION BOX (4 11/16" SQUARED X2 1/8" DEEP)
Ø	DIAMETER, PHASE
#	NUMBER
°C	DEGREE CELSIUS
(E)	EXISTING DEVICE TO REMAIN
(R)	REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE
(RL)	REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN
(NL)	NEW LOCATION OF RELOCATED DEVICE

ADDENDUM NO 1

412 E. Vanderbilt Way
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
Email: cadd@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

LEONARD P. MAYA, RPE E19480 DATE: 01/16/23

REGISTERED PROFESSIONAL ENGINEER LEONARD P. MAYA No. E19480 SIGNED: 10/03/2023 ELECTRICAL STATE OF CALIFORNIA

DESIGNED BY:	AJ
DRAWN BY:	ST
CONSTR. SET:	11/8/23
CHECKED BY:	LM
PB NUMBER:	238474

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Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:

REF.	DESCRIPTION	APPR.	DATE
	REVISIONS		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: _____ DATE: 11/20/23

APPROVED BY: _____ DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
ELECTRICAL LEGENDS AND NOTES

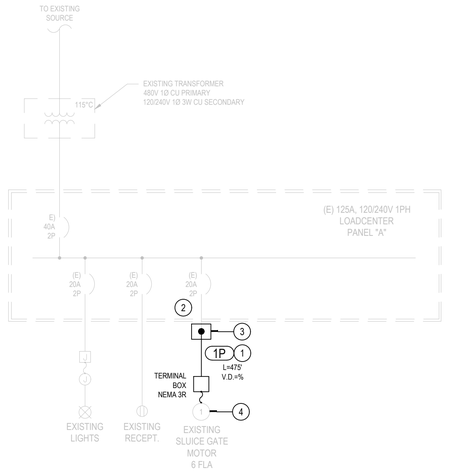
PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 38 OF 42

22-465

R:_PROJECT\22\22-465 RCFC AND WCD PERRIS VALLEY CHANNEL LATERAL B STAGE 4 SLUICE GATE\22-465 E-FRNTSHT.DWG 10/3/2023 9:35:15 AM

CONSTRUCTION NOTES

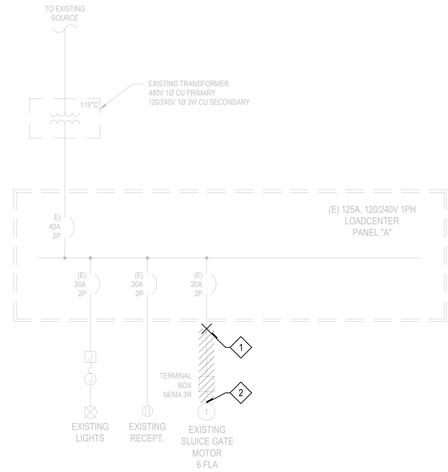
1. EXTEND NEW CONDUIT AND CONDUCTORS FROM EXISTING CIRCUIT TO NEW LOCATION OF GATE MOTOR. REFER TO SITE PLAN FOR EXACT LOCATION.
2. PROVIDE EXISTING CIRCUIT BREAKER WITH LOCK-OFF DEVICE.
3. INTERCEPT AND PROVIDE NEW PULL BOX FOR NEW CONDUIT AND FEEDERS.
4. MOUNT AND RECONNECT MOTOR PER MANUFACTURER SPECIFICATIONS. PROVIDE TESTING AFTER RECONNECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO MOTOR DURING THE RELOCATION PROCESS.



SINGLE LINE DIAGRAM - REMODEL

DEMOLITION NOTES

1. DISCONNECT FROM EXISTING GATE MOTOR TO BE RELOCATED AND REMOVE ALL EXISTING RELATED CONDUIT AND CONDUCTORS BACK TO INTERCEPT POINT.
2. SAFE-OFF, DISCONNECT AND REMOVE EXISTING MOTOR FOR RELOCATION.



SINGLE LINE DIAGRAM - DEMOLITION

ADDENDUM NO. 1

ELECTRICAL POWER FEEDER CHART

PLAN SYMBOL	CONDUIT QTY.	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR QTY. & SIZE	CONDUCTOR INSULATION	LOCATION FROM	LOCATION TO	REMARKS
1P	1	1 1/2"	UG PVC SCHED. 40 EXP PVC RGS	(2) #8, (1) #10 GRD. - 100% COPPER (THWN)		INTERCEPT POINT	RELOCATED SLUICE GATE MOTOR	PROVIDE (1) 2" SPARE CONDUIT WITH PULL STRING. PROVIDE CONDUCTOR PIN ADAPTER AS NECESSARY FOR MOTOR RECONNECTION.

CONDUIT TYPE NOTE: CONDUIT TYPE INDICATED IN SCHEDULE REPRESENTS HORIZONTAL UNDERGROUND RUNS. ALL CONDUIT RISERS UP INTO FREE STANDING ELECTRICAL ENCLOSURES SHALL BE PVC SCHEDULE 80. ALL OTHER RISERS SHALL BE MADE WITH PVC COATED RGS.

412 E. Vanderbilt Way
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
Email: cadd@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

LEONARD P. MAYA, RPE E19480 DATE: 01/16/23

REGISTERED PROFESSIONAL ENGINEER — LEONARD PAUL MAYA — No. E19480 — SIGNED:10/03/2023 — ELECTRICAL — STATE OF CALIFORNIA

DESIGNED BY:	AJ
DRAWN BY:	ST
CONSTR. SET:	11/8/23
CHECKED BY:	LM
P8 NUMBER:	238474

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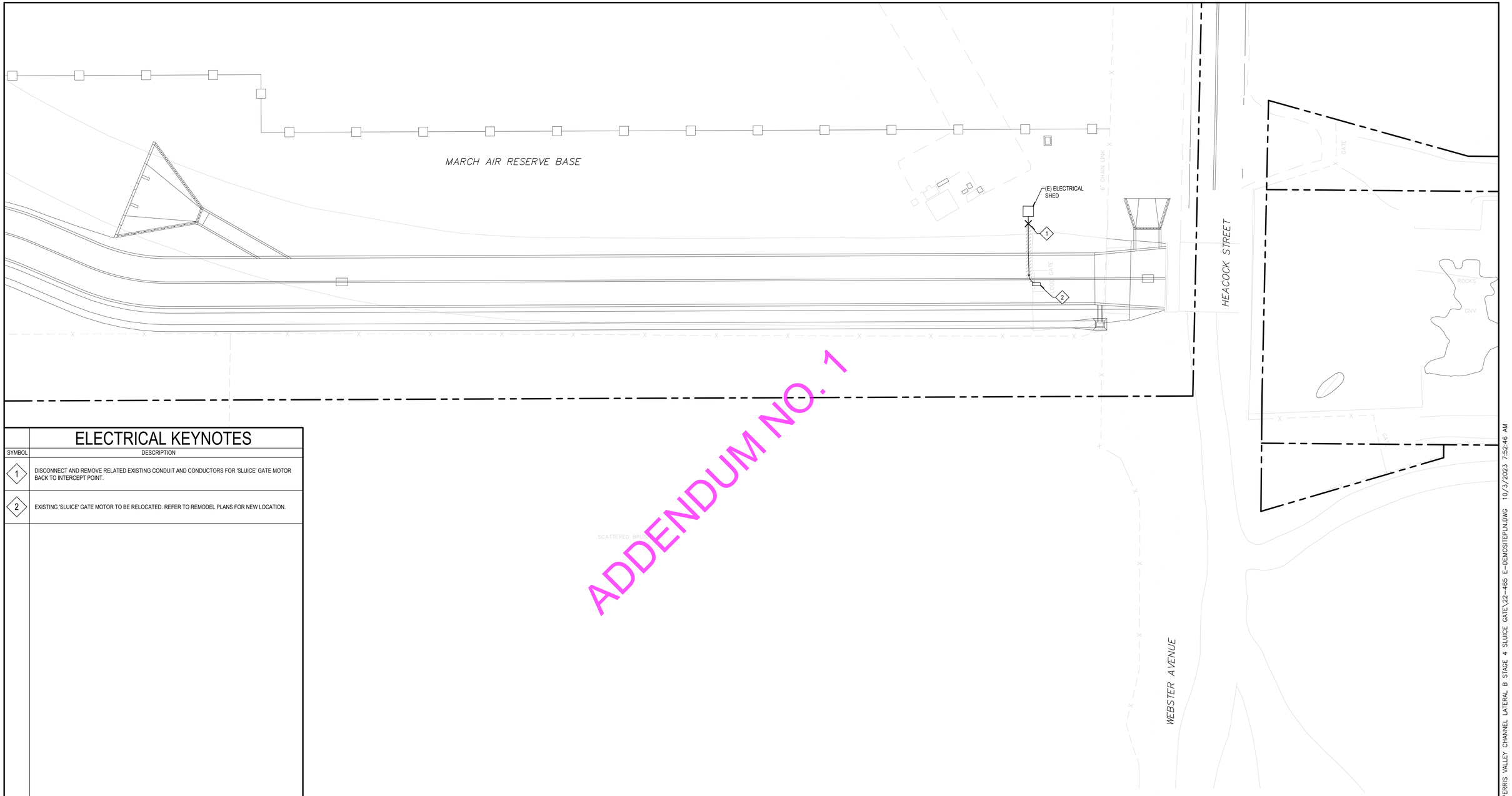
APPROVED BY: _____ DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
SINGLE LINE DIAGRAM

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	39 OF 42

22-465

R:_PROJECT\2022\22-465 RCFC AND WCD PERRIS VALLEY CHANNEL LATERAL B STAGE 4 SLUICE GATE\22-465 E-SLD.DWG 10/3/2023 11:04:45 AM



ELECTRICAL KEYNOTES

SYMBOL	DESCRIPTION
1	DISCONNECT AND REMOVE RELATED EXISTING CONDUIT AND CONDUCTORS FOR 'SLUICE' GATE MOTOR BACK TO INTERCEPT POINT.
2	EXISTING 'SLUICE' GATE MOTOR TO BE RELOCATED. REFER TO REMODEL PLANS FOR NEW LOCATION.

ADDENDUM NO. 1

412 E. Vanderbilt Way
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
Email: cadd@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

REGISTERED PROFESSIONAL ENGINEER
LEONARD P. MAYA
No. E19480
SIGNED: 10/03/2023
ELECTRICAL
STATE OF CALIFORNIA

LEONARD P. MAYA, RPE E19480 DATE: 01/16/23

DESIGNED BY:	AJ
DRAWN BY:	ST
CONSTR. SET:	11/8/23
CHECKED BY:	LM
PB NUMBER:	238474

Don't Dig...Until You Call:
U.S.A. Toll Free:
1-800-422-4133
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:

REF.	DESCRIPTION	APPR.	DATE
	REVISIONS		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL: DATE: 11/20/23

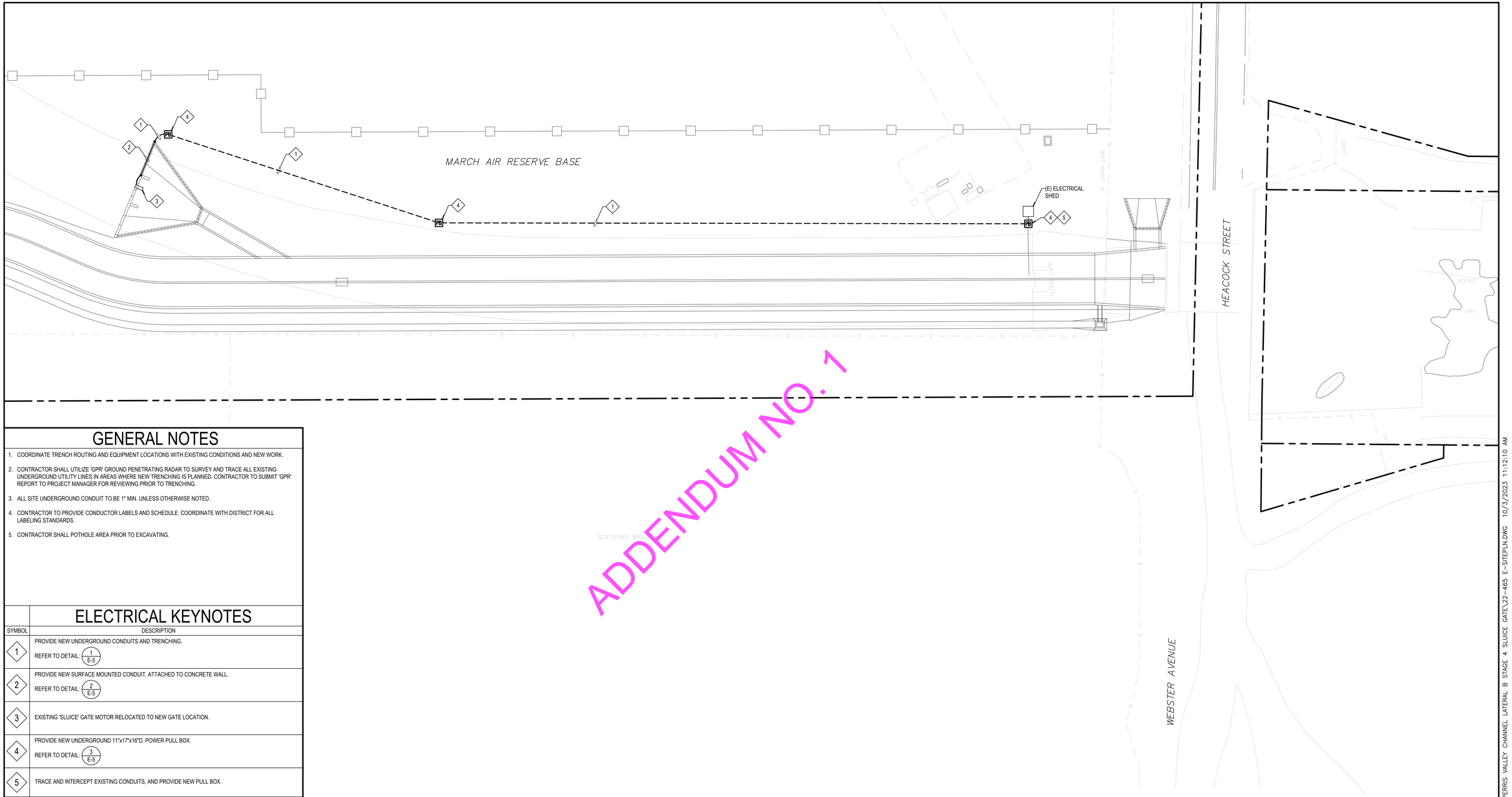
APPROVED BY: DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
ELECTRICAL DEMOLITION SITE PLAN

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 40 OF 42

22-465

R:_PROJECT\2022\22-465 RCFC AND WCD PERRIS VALLEY CHANNEL LATERAL B STAGE 4 SLUICE GATE\22-465 E-DEMOSITEPLN.DWG 10/3/2023 7:52:46 AM



ADDENDUM NO. 1

GENERAL NOTES

1. COORDINATE TRENCH ROUTING AND EQUIPMENT LOCATIONS WITH EXISTING CONDITIONS AND NEW WORK.
2. CONTRACTOR SHALL UTILIZE 'GPR' GROUND PENETRATING RADAR TO SURVEY AND TRACE ALL EXISTING UNDERGROUND UTILITY LINES IN AREAS WHERE NEW TRENCHING IS PLANNED. CONTRACTOR TO SUBMIT 'GPR' REPORT TO PROJECT MANAGER FOR REVIEWING PRIOR TO TRENCHING.
3. ALL SITE UNDERGROUND CONDUIT TO BE 1" MIN. UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO PROVIDE CONDUCTOR LABELS AND SCHEDULE. COORDINATE WITH DISTRICT FOR ALL LABELING STANDARDS.
5. CONTRACTOR SHALL POTHOLE AREA PRIOR TO EXCAVATING.

ELECTRICAL KEYNOTES

SYMBOL	DESCRIPTION
1	PROVIDE NEW UNDERGROUND CONDUITS AND TRENCHING. REFER TO DETAIL: 1/E-5
2	PROVIDE NEW SURFACE MOUNTED CONDUIT, ATTACHED TO CONCRETE WALL. REFER TO DETAIL: 2/E-5
3	EXISTING 'SLUICE' GATE MOTOR RELOCATED TO NEW GATE LOCATION.
4	PROVIDE NEW UNDERGROUND 11"x17"x16"D. POWER PULL BOX. REFER TO DETAIL: 3/E-5
5	TRACE AND INTERCEPT EXISTING CONDUITS, AND PROVIDE NEW PULL BOX.

412 E. Vanderbilt Way
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
Email: cadd@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

LEONARD P. MAYA, RPE E19480 DATE: 01/16/23

REGISTERED PROFESSIONAL ENGINEER LEONARD PAUL MAYA No. E19480 SIGNED: 10/03/2023 ELECTRICAL STATE OF CALIFORNIA

DESIGNED BY:	AJ
DRAWN BY:	ST
CONSTR. SET:	11/8/23
CHECKED BY:	LM
PB NUMBER:	238474

Don't Dig...Until You Call:
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Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PERMANENT BENCH MARK:

REF.	REVISIONS	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 11/20/23

APPROVED BY: DATE: 11/20/23

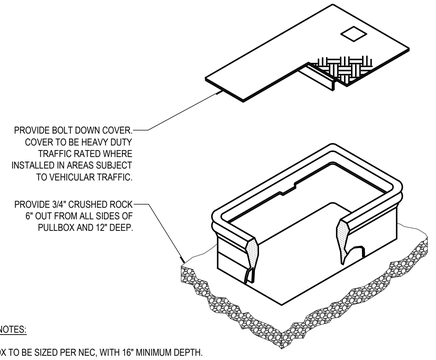
PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
ELECTRICAL REMODEL SITE PLAN

PROJECT NO. 4-0-00009
DRAWING NO. 4-1170
SHEET NO. 41 OF 42

22-465

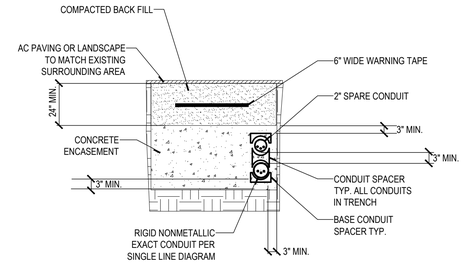
R:_PROJECT\2022\22-465 RCFC AND WCD PERRIS VALLEY CHANNEL LATERAL B STAGE 4 SLUICE GATE\22-465 E-SITEPLN.DWG 10/3/2023 11:12:10 AM

-	8	-	5	PULLBOX INSTALLATION	3	CONDUIT DUCT BANK SECTION	1
-	9	-	6	-	4	CO. SUPPORT ON CONCRETE WALL	2
-	10	-	7				

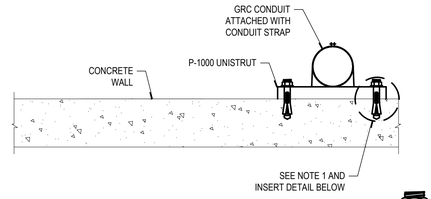


GENERAL NOTES:

1. PULLBOX TO BE SIZED PER NEC, WITH 16" MINIMUM DEPTH.
2. PROVIDE COVER LABELED WITH "POWER" DESIGNATION.
3. PROVIDE LOCKABLE COVER.

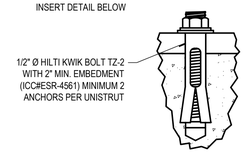


NOTE: MINIMUM TRENCH WIDTH TO BE 12".



GENERAL NOTES:

1. FOR SUPPORT IN CONCRETE, USE SWIVEL CONCRETE INSERTS, AS SHOWN. ANCHORS TO BE PLACED AT CENTER OF METAL DECK FLUTES ONLY.



CONCRETE EXPANSION ANCHOR

ADDENDUM NO. 1

412 E. Vanderbilt Way
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
Email: cadd@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

LEONARD P. MAYA, RPE E19480 DATE: 01/16/23

REGISTERED PROFESSIONAL ENGINEER — LEONARD PHILLIP MAYA — No. E19480 — SIGNED: 10/03/2023 — ELECTRICAL — STATE OF CALIFORNIA

DESIGNED BY:	AJ
DRAWN BY:	ST
CONSTR. SET:	11/8/23
CHECKED BY:	LM
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PERMANENT BENCH MARK:

REF.	DESCRIPTION	APPR.	DATE
	REVISIONS		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: _____ DATE: 11/20/23

APPROVED BY: _____ DATE: 11/20/23

PERRIS VALLEY CHANNEL
LATERAL B, STAGE 4
ELECTRICAL DETAILS

PROJECT NO.	4-0-00009
DRAWING NO.	4-1170
SHEET NO.	42 OF 42

22-465

R:_PROJECT\2022\22-465 RCFC AND WCD PERRIS VALLEY CHANNEL LATERAL B STAGE 4 SLUICE GATE\22-465 E-DETAILS.DWG 10/3/2023 11:14:19 AM

Riverside County Flood Control & Water Conservation District

1995 Market St. Riverside, CA 92501 Phone: 951.955.1200 Fax: 951.788.9965

Bid Summary

Project Name: **PERRIS VALLEY CHANNEL LATERAL B, STAGE 4**

Project Number: 4-0-00009-04

Bid Open Date: 7/24/2025

Total	*Contractor Name*		*Phone*
$19,906,647.00	KEC ENGINEERING	26320 Lester Circle Corona CA 92883	951.734.3010
$19,918,802.00	RIVERSIDE CONST. CO. INC.	Post Office Box 1146 Riverside CA 92502	951.682.8308
$21,122,222.00	H&H GENERAL CONTS., INC.	PO Box 536 or 7919 Palm Avenue Highland CA 92346	909.425.3907
$22,888,888.00	MAMCO, INC. dba ALABBASI	764 W. Ramona Expressway, Suite C Perris CA 92571	951.776.9300
$23,480,922.38	BOSCO CONSTRUCTORS INC.	21353 Mayall Street Chatsworth CA 91311	818.700.0304
$24,183,191.00	SUKUT CONST. INC.	4010 W. Chandler Avenue Santa Ana CA 92704	714.540.5351
$24,631,423.00	ORTIZ ENTERPRISES INC.	6 Cushing, Suite 200 Irvine CA 92618	949.753.1414
$24,698,140.00	BEADOR CONST. CO., INC.	26320 Lester Circle Corona CA 92883	951.674.7352
$26,016,930.00	STEVE P. RADOS, INC.	2002 E. McFadden Avenue, Suite 200 Santa Ana CA 92705	714.835.4612
$26,209,080.00	AMES CONSTRUCTION INC.	391 N. Main Street, Suite 302 Corona CA 92880	951.356.1275
$27,146,803.53	CT&T CONCRETE PAVING INC.	324 S. Diamond Bar Boulevard PMB275 Diamond Bar CA 91765	909-629-8000
$28,845,849.00	MOUNTAIN CASCADE, INC.	555 Exchange Court Livermore CA 94550	925-373-8370
$29,306,025.00	BOUDREAU PIPELINE CORP.	463 N. Smith Avenue Corona CA 92880	951.493.6780
$29,408,200.00	MIKE BUBALO CONST. CO. INC.	5102 Gayhurst Avenue Baldwin Park CA 91706	626.960.7787
$29,647,793.00	J/K EXCAVATION & GRADING CO. INC.	541 W. Rialto Avenue Rialto CA 92376	909.357.1800 x121
$30,330,880.51	GRIFFITH COMPANY	3050 E. Birch Street Brea CA 92821	714.984.5500
$31,948,000.00	LOS ANGELES ENGINEERING, INC.	633 N. Barranca Avenue Covina CA 91723	626.454.5222
$34,816,729.00	NORSTAR PLUMBING & ENG. INC.	8780 19th Street #310 Alta Loma CA 91701	909.481.9488
$35,011,367.00	TC CONSTRUCTION CO. INC.	10540 Prospect Avenue Santee CA 92071	619.448.4560
$20,522,994.00	RCFC Engineer's Estimate		

Riverside County Flood Control & Water Conservation District

1995 Market St. Riverside, CA 92501 Phone: 951.955.1200 Fax: 951.788.9965

Bid Abstract

Project Name: **PERRIS VALLEY CHANNEL LATERAL B, STAGE 4**

Project Number: 4-0-00009-04

Bid Open Date: 7/24/2025

				RCFC Engineer's Estimate		KEC ENGINEERING		RIVERSIDE CONST. CO. INC.		H&H GENERAL CONTS., INC.	
No.	Item Description	Unit	Quantity	Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal
1	MOBILIZATION	L.S.	1	$ 300,000.00	$ 300,000.00	$ 100,000.00	$ 100,000.00	$ 611,000.00	$ 611,000.00	$ 1,141,597.00	$ 1,141,597.00
2	WATER CONTROL	L.S.	1	$ 50,000.00	$ 50,000.00	$ 18,000.00	$ 18,000.00	$ 75,000.00	$ 75,000.00	$ 69,000.00	$ 69,000.00
3	TRAFFIC CONTROL	L.S.	1	$ 15,000.00	$ 15,000.00	$ 21,000.00	$ 21,000.00	$ 25,000.00	$ 25,000.00	$ 17,000.00	$ 17,000.00
4	CLEARING AND MISCELLANEOUS WORK	L.S.	1	$ 120,000.00	$ 120,000.00	$ 12,800.00	$ 12,800.00	$ 350,000.00	$ 350,000.00	$ 229,000.00	$ 229,000.00
5	EXCAVATION	C.Y.	65630	$ 16.00	$ 1,050,080.00	$ 22.00	$ 1,443,860.00	$ 10.00	$ 656,300.00	$ 19.00	$ 1,246,970.00
6	PAVEMENT REMOVAL	C.Y.	31	$ 31.00	$ 961.00	$ 65.00	$ 2,015.00	$ 900.00	$ 27,900.00	$ 272.00	$ 8,432.00
7	BACKFILL	C.Y.	22450	$ 13.00	$ 291,850.00	$ 33.40	$ 749,830.00	$ 45.00	$ 1,010,250.00	$ 44.50	$ 999,025.00
8	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	C.Y.	2700	$ 275.00	$ 742,500.00	$ 186.00	$ 502,200.00	$ 385.00	$ 1,039,500.00	$ 166.00	$ 448,200.00
9	TRENCH SAFETY SYSTEM AND FALSEWORK	L.S.	1	$ 20,000.00	$ 20,000.00	$ 490,000.00	$ 490,000.00	$ 350,000.00	$ 350,000.00	$ 365,000.00	$ 365,000.00
10	CLASS "A" CONCRETE, REINFORCED CONCRETE BOX	C.Y.	6810	$ 1,000.00	$ 6,810,000.00	$ 911.00	$ 6,203,910.00	$ 955.00	$ 6,503,550.00	$ 950.00	$ 6,469,500.00
11	CLASS "A" CONCRETE, ACCESS SHAFT	C.Y.	45	$ 1,200.00	$ 54,000.00	$ 1,967.00	$ 88,515.00	$ 1,650.00	$ 74,250.00	$ 1,986.00	$ 89,370.00
12	CLASS "A" CONCRETE, MINOR STRUCTURES	C.Y.	7	$ 1,200.00	$ 8,400.00	$ 2,300.00	$ 16,100.00	$ 3,800.00	$ 26,600.00	$ 2,186.00	$ 15,302.00
13	CLASS "A" CONCRETE, LATERAL LS INLET	L.S.	1	$ 30,000.00	$ 30,000.00	$ 115,800.00	$ 115,800.00	$ 52,800.00	$ 52,800.00	$ 109,000.00	$ 109,000.00
14	CLASS "A" CONCRETE, LINE C INLET	L.S.	1	$ 10,000.00	$ 10,000.00	$ 59,600.00	$ 59,600.00	$ 70,500.00	$ 70,500.00	$ 61,000.00	$ 61,000.00
15	CLASS "B" CONCRETE, CONCRETED ROCK	C.Y.	133	$ 265.00	$ 35,245.00	$ 286.50	$ 38,104.50	$ 330.00	$ 43,890.00	$ 318.00	$ 42,294.00
16	CLASS "B" CONCRETE, MISCELLANEOUS	C.Y.	152	$ 600.00	$ 91,200.00	$ 950.00	$ 144,400.00	$ 750.00	$ 114,000.00	$ 2,296.00	$ 348,992.00
17	TRANSITION STRUCTURE NO. 2	C.Y.	42	$ 1,000.00	$ 42,000.00	$ 1,183.00	$ 49,686.00	$ 2,100.00	$ 88,200.00	$ 1,434.00	$ 60,228.00
18	TRANSITION STRUCTURE NO. 4	C.Y.	235	$ 1,000.00	$ 235,000.00	$ 1,100.00	$ 258,500.00	$ 1,400.00	$ 329,000.00	$ 931.00	$ 218,785.00
19	JUNCTION STRUCTURE NO. 1	EACH	1	$ 7,500.00	$ 7,500.00	$ 13,900.00	$ 13,900.00	$ 9,200.00	$ 9,200.00	$ 8,662.00	$ 8,662.00
20	JUNCTION STRUCTURE NO. 5	EACH	4	$ 8,000.00	$ 32,000.00	$ 9,225.00	$ 36,900.00	$ 7,200.00	$ 28,800.00	$ 4,865.00	$ 19,460.00
21	MANHOLE NO. 3	EACH	18	$ 4,000.00	$ 72,000.00	$ 1,950.00	$ 35,100.00	$ 3,000.00	$ 54,000.00	$ 2,282.00	$ 41,076.00
22	18" REINFORCED CONCRETE PIPE, CLASS IV	L.F.	25	$ 326.00	$ 8,150.00	$ 165.00	$ 4,125.00	$ 400.00	$ 10,000.00	$ 248.00	$ 6,200.00
23	54" REINFORCED CONCRETE PIPE, 1600D	L.F.	51	$ 713.00	$ 36,363.00	$ 483.00	$ 24,633.00	$ 400.00	$ 20,400.00	$ 442.00	$ 22,542.00
24	AGGREGATE BASE, CLASS 2	C.Y.	1200	$ 150.00	$ 180,000.00	$ 109.00	$ 130,800.00	$ 85.00	$ 102,000.00	$ 119.00	$ 142,800.00
25	HOT MIX ASPHALT (HMA)	TONS	830	$ 280.00	$ 232,400.00	$ 150.00	$ 124,500.00	$ 128.00	$ 106,240.00	$ 171.00	$ 141,930.00
26	6-FOOT CHAIN LINK FENCE	L.F.	60	$ 50.00	$ 3,000.00	$ 710.00	$ 42,600.00	$ 65.00	$ 3,900.00	$ 360.00	$ 21,600.00
27	AIRFORCE BASE SECURITY FENCE	L.F.	2960	$ 70.00	$ 207,200.00	$ 234.00	$ 692,640.00	$ 117.25	$ 347,060.00	$ 133.00	$ 393,680.00
28	TEMPORARY SECURITY FENCING	L.F.	3830	$ 66.00	$ 252,780.00	$ 79.00	$ 302,570.00	$ 65.00	$ 248,950.00	$ 78.00	$ 298,740.00
29	TEMPORARY ILS (Instrument Landing System) ZONE SECURITY FENCING	L.F.	1200	$ 65.00	$ 78,000.00	$ 43.00	$ 51,600.00	$ 52.00	$ 62,400.00	$ 169.00	$ 202,800.00
30	CABLE RAILING	L.F.	115	$ 55.00	$ 6,325.00	$ 128.00	$ 14,720.00	$ 105.00	$ 12,075.00	$ 157.00	$ 18,055.00
31	TUBULAR STEEL FENCE	L.F.	56	$ 100.00	$ 5,600.00	$ 500.00	$ 28,000.00	$ 412.00	$ 23,072.00	$ 851.00	$ 47,656.00
32	TEMPORARY FENCING	L.F.	100	$ 55.00	$ 5,500.00	$ 195.00	$ 19,500.00	$ 60.00	$ 6,000.00	$ 213.00	$ 21,300.00
33	14-FOOT DOUBLE DRIVE GATES	EACH	1	$ 2,500.00	$ 2,500.00	$ 7,700.00	$ 7,700.00	$ 12,420.00	$ 12,420.00	$ 18,563.00	$ 18,563.00
34	MISCELLANEOUS IRON AND STEEL	LBS.	22180	$ 3.00	$ 66,540.00	$ 7.50	$ 166,350.00	$ 5.00	$ 110,900.00	$ 4.50	$ 99,810.00
35	ADJUST MANHOLE TO GRADE	EACH	8	$ 500.00	$ 4,000.00	$ 365.00	$ 2,920.00	$ 1,050.00	$ 8,400.00	$ 2,025.00	$ 16,200.00
36	SLOPED PROTECTION BARRIER	EACH	2	$ 4,500.00	$ 9,000.00	$ 14,240.00	$ 28,480.00	$ 23,850.00	$ 47,700.00	$ 13,973.00	$ 27,946.00
37	RELOCATE SLUICE GATE	L.S.	1	$ 12,000.00	$ 12,000.00	$ 47,700.00	$ 47,700.00	$ 80,000.00	$ 80,000.00	$ 103,600.00	$ 103,600.00
38	FLOW EQUALIZING WINDOW	EACH	5	$ 4,000.00	$ 20,000.00	$ 1,800.00	$ 9,000.00	$ 900.00	$ 4,500.00	$ 6,244.00	$ 31,220.00
39	TEMPORARY ACCESS ROAD REMOVAL	C.Y.	340	$ 14.50	$ 4,930.00	$ 23.00	$ 7,820.00	$ 65.00	$ 22,100.00	$ 66.00	$ 22,440.00
40	EXTRA DIRECTED WORK	L.S.	1	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00
41	ROCK SLOPE PROTECTION (RSP) CLASS V	C.Y.	530	$ 155.00	$ 82,150.00	$ 24.00	$ 12,720.00	$ 40.00	$ 21,200.00	$ 167.00	$ 88,510.00
42	FILTER MATERIAL	C.Y.	740	$ 100.00	$ 74,000.00	$ 60.00	$ 44,400.00	$ 160.50	$ 118,770.00	$ 77.00	$ 56,980.00
43	ROCK SLOPE PROTECTION (RSP) FABRIC	S.Y.	590	$ 50.00	$ 29,500.00	$ 6.00	$ 3,540.00	$ 4.85	$ 2,861.50	$ 5.00	$ 2,950.00
44	DUST ABATEMENT	L.S.	1	$ 15,000.00	$ 15,000.00	$ 350,700.00	$ 350,700.00	$ 350,000.00	$ 350,000.00	$ 56,300.00	$ 56,300.00
45	HYDROSEEDING	ACRE	17.5	$ 3,200.00	$ 56,000.00	$ 3,747.00	$ 65,572.50	$ 3,225.00	$ 56,437.50	$ 3,858.00	$ 67,515.00
46	STORMWATER AND NON-STORMWATER POLLUTION CONTROL AND NON-S1	L.S.	1	$ 50,000.00	$ 50,000.00	$ 63,600.00	$ 63,600.00	$ 95,000.00	$ 95,000.00	$ 71,000.00	$ 71,000.00
47	10.5'H X 9'W PRECAST REINFORCED CONCRETE BOX (PRCB)	L.F.	3152	$ 1,660.00	$ 5,232,320.00	$ 1,243.00	$ 3,917,936.00	$ 1,108.00	$ 3,492,416.00	$ 1,246.00	$ 3,927,392.00
48	10'H X 14'W PRECAST REINFORCED CONCRETE BOX (PRCB)	L.F.	1180	$ 2,400.00	$ 2,832,000.00	$ 1,985.00	$ 2,342,300.00	$ 1,707.00	$ 2,014,260.00	$ 1,870.00	$ 2,206,600.00
	TOTAL COST				$ 20,522,994.00		$ 19,906,647.00		$ 19,918,802.00		$ 21,122,222.00

Riverside County Flood Control & Water Conservation District

1995 Market St. Riverside, CA 92501 Phone: 951.955.1200 Fax: 951.788.9965

Bid Abstract

Project Name: **PERRIS VALLEY CHANNEL LATERAL B, STAGE 4**

Project Number: 4-0-00009-04

Bid Open Date: 7/24/2025

No.	Item Description	Unit	Quantity	MAMCO, INC. dba ALABBASI		BOSCO CONSTRUCTORS INC.		SUKUT CONST. INC.		ORTIZ ENTERPRISES INC.	
				Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal
1	MOBILIZATION	L.S.	1	$ 1,100,000.00	$ 1,100,000.00	$ 999,000.00	$ 999,000.00	$ 1,500,000.00	$ 1,500,000.00	$ 1,200,000.00	$ 1,200,000.00
2	WATER CONTROL	L.S.	1	$ 40,000.00	$ 40,000.00	$ 306,652.65	$ 306,652.65	$ 150,000.00	$ 150,000.00	$ 170,000.00	$ 170,000.00
3	TRAFFIC CONTROL	L.S.	1	$ 12,000.00	$ 12,000.00	$ 106,957.58	$ 106,957.58	$ 20,000.00	$ 20,000.00	$ 45,000.00	$ 45,000.00
4	CLEARING AND MISCI	L.S.	1	$ 225,718.00	$ 225,718.00	$ 176,139.85	$ 176,139.85	$ 250,000.00	$ 250,000.00	$ 200,000.00	$ 200,000.00
5	EXCAVATION	C.Y.	65630	$ 24.00	$ 1,575,120.00	$ 22.00	$ 1,443,860.00	$ 22.00	$ 1,443,860.00	$ 48.00	$ 3,150,240.00
6	PAVEMENT REMOVAL	C.Y.	31	$ 100.00	$ 3,100.00	$ 394.36	$ 12,225.16	$ 100.00	$ 3,100.00	$ 90.00	$ 2,790.00
7	BACKFILL	C.Y.	22450	$ 22.00	$ 493,900.00	$ 29.35	$ 658,907.50	$ 24.00	$ 538,800.00	$ 56.00	$ 1,257,200.00
8	CONTROLLED LOW S	C.Y.	2700	$ 200.00	$ 540,000.00	$ 386.38	$ 1,043,226.00	$ 221.00	$ 596,700.00	$ 410.00	$ 1,107,000.00
9	TRENCH SAFETY SYST	L.S.	1	$ 220,000.00	$ 220,000.00	$ 1,200,000.00	$ 1,200,000.00	$ 1,750,000.00	$ 1,750,000.00	$ 810,000.00	$ 810,000.00
10	CLASS "A" CONCRETE	C.Y.	6810	$ 1,100.00	$ 7,491,000.00	$ 709.47	$ 4,831,490.70	$ 975.00	$ 6,639,750.00	$ 817.00	$ 5,563,770.00
11	CLASS "A" CONCRETE	C.Y.	45	$ 1,600.00	$ 72,000.00	$ 4,057.67	$ 182,595.15	$ 2,050.00	$ 92,250.00	$ 3,000.00	$ 135,000.00
12	CLASS "A" CONCRETE	C.Y.	7	$ 3,250.00	$ 22,750.00	$ 3,467.33	$ 24,271.31	$ 4,500.00	$ 31,500.00	$ 2,000.00	$ 14,000.00
13	CLASS "A" CONCRETE	L.S.	1	$ 50,000.00	$ 50,000.00	$ 172,022.16	$ 172,022.16	$ 52,000.00	$ 52,000.00	$ 165,000.00	$ 165,000.00
14	CLASS "A" CONCRETE	L.S.	1	$ 30,000.00	$ 30,000.00	$ 133,075.48	$ 133,075.48	$ 21,000.00	$ 21,000.00	$ 70,000.00	$ 70,000.00
15	CLASS "B" CONCRETE	C.Y.	133	$ 285.00	$ 37,905.00	$ 446.11	$ 59,332.63	$ 330.00	$ 43,890.00	$ 320.00	$ 42,560.00
16	CLASS "B" CONCRETE	C.Y.	152	$ 720.00	$ 109,440.00	$ 1,256.27	$ 190,953.04	$ 1,250.00	$ 190,000.00	$ 1,900.00	$ 288,800.00
17	TRANSITION STRUCTU	C.Y.	42	$ 1,000.00	$ 42,000.00	$ 2,123.39	$ 89,182.38	$ 1,700.00	$ 71,400.00	$ 2,000.00	$ 84,000.00
18	TRANSITION STRUCTU	C.Y.	235	$ 1,200.00	$ 282,000.00	$ 1,700.00	$ 399,500.00	$ 980.00	$ 230,300.00	$ 1,700.00	$ 399,500.00
19	JUNCTION STRUCTUR	EACH	1	$ 11,000.00	$ 11,000.00	$ 39,990.16	$ 39,990.16	$ 10,200.00	$ 10,200.00	$ 8,800.00	$ 8,800.00
20	JUNCTION STRUCTUR	EACH	4	$ 11,000.00	$ 44,000.00	$ 39,450.52	$ 157,802.08	$ 17,000.00	$ 68,000.00	$ 13,000.00	$ 52,000.00
21	MANHOLE NO. 3	EACH	18	$ 4,000.00	$ 72,000.00	$ 25,422.25	$ 457,600.50	$ 2,500.00	$ 45,000.00	$ 3,500.00	$ 63,000.00
22	18" REINFORCED COI	L.F.	25	$ 270.00	$ 6,750.00	$ 684.20	$ 17,105.00	$ 345.00	$ 8,625.00	$ 400.00	$ 10,000.00
23	54" REINFORCED COI	L.F.	51	$ 560.00	$ 28,560.00	$ 1,269.46	$ 64,742.46	$ 500.00	$ 25,500.00	$ 700.00	$ 35,700.00
24	AGGREGATE BASE, CL	C.Y.	1200	$ 80.00	$ 96,000.00	$ 130.02	$ 156,024.00	$ 67.00	$ 80,400.00	$ 130.00	$ 156,000.00
25	HOT MIX ASPHALT (HI	TONS	830	$ 190.00	$ 157,700.00	$ 447.57	$ 371,483.10	$ 140.00	$ 116,200.00	$ 150.00	$ 124,500.00
26	6-FOOT CHAIN LINK F	L.F.	60	$ 72.00	$ 4,320.00	$ 90.00	$ 5,400.00	$ 500.00	$ 30,000.00	$ 510.00	$ 30,600.00
27	AIRFORCE BASE SECU	L.F.	2960	$ 130.00	$ 384,800.00	$ 180.00	$ 532,800.00	$ 66.00	$ 195,360.00	$ 180.00	$ 532,800.00
28	TEMPORARY SECURIT	L.F.	3830	$ 72.00	$ 275,760.00	$ 80.00	$ 306,400.00	$ 48.00	$ 183,840.00	$ 80.00	$ 306,400.00
29	TEMPORARY ILS (Instr	L.F.	1200	$ 66.00	$ 79,200.00	$ 150.00	$ 180,000.00	$ 71.00	$ 85,200.00	$ 150.00	$ 180,000.00
30	CABLE RAILING	L.F.	115	$ 117.00	$ 13,455.00	$ 110.00	$ 12,650.00	$ 180.00	$ 20,700.00	$ 145.00	$ 16,675.00
31	TUBULAR STEEL FENC	L.F.	56	$ 460.00	$ 25,760.00	$ 420.00	$ 23,520.00	$ 495.00	$ 27,720.00	$ 780.00	$ 43,680.00
32	TEMPORARY FENCIN(	L.F.	100	$ 67.00	$ 6,700.00	$ 80.00	$ 8,000.00	$ 15.00	$ 1,500.00	$ 200.00	$ 20,000.00
33	14-FOOT DOUBLE DR	EACH	1	$ 13,800.00	$ 13,800.00	$ 15,000.00	$ 15,000.00	$ 5,750.00	$ 5,750.00	$ 18,000.00	$ 18,000.00
34	MISCELLANEOUS IRO	LBS.	22180	$ 3.00	$ 66,540.00	$ 13.68	$ 303,422.40	$ 4.70	$ 104,246.00	$ 3.00	$ 66,540.00
35	ADJUST MANHOLE TO	EACH	8	$ 1,500.00	$ 12,000.00	$ 2,071.63	$ 16,573.04	$ 1,800.00	$ 14,400.00	$ 1,200.00	$ 9,600.00
36	SLOPED PROTECTION	EACH	2	$ 20,000.00	$ 40,000.00	$ 12,665.09	$ 25,330.18	$ 25,700.00	$ 51,400.00	$ 7,600.00	$ 15,200.00
37	RELOCATE SLUICE GA	L.S.	1	$ 38,000.00	$ 38,000.00	$ 283,961.89	$ 283,961.89	$ 56,000.00	$ 56,000.00	$ 40,000.00	$ 40,000.00
38	FLOW EQUALIZING W	EACH	5	$ 2,000.00	$ 10,000.00	$ 15,529.57	$ 77,647.85	$ 1,950.00	$ 9,750.00	$ 15,000.00	$ 75,000.00
39	TEMPORARY ACCESS	C.Y.	340	$ 40.00	$ 13,600.00	$ 67.52	$ 22,956.80	$ 70.00	$ 23,800.00	$ 110.00	$ 37,400.00
40	EXTRA DIRECTED WO	L.S.	1	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00
41	ROCK SLOPE PROTEC	C.Y.	530	$ 134.00	$ 71,020.00	$ 481.40	$ 255,142.00	$ 151.00	$ 80,030.00	$ 155.00	$ 82,150.00
42	FILTER MATERIAL	C.Y.	740	$ 68.00	$ 50,320.00	$ 391.10	$ 289,414.00	$ 59.00	$ 43,660.00	$ 270.00	$ 199,800.00
43	ROCK SLOPE PROTEC	S.Y.	590	$ 13.00	$ 7,670.00	$ 27.68	$ 16,331.20	$ 5.00	$ 2,950.00	$ 11.00	$ 6,490.00
44	DUST ABATEMENT	L.S.	1	$ 435,000.00	$ 435,000.00	$ 276,984.83	$ 276,984.83	$ 15,700.00	$ 15,700.00	$ 85,000.00	$ 85,000.00
45	HYDROSEEDING	ACRE	17.5	$ 3,600.00	$ 63,000.00	$ 5,115.14	$ 89,514.95	$ 3,500.00	$ 61,250.00	$ 3,400.00	$ 59,500.00
46	STORMWATER AND N	L.S.	1	$ 73,000.00	$ 73,000.00	$ 32,174.23	$ 32,174.23	$ 100,000.00	$ 100,000.00	$ 150,000.00	$ 150,000.00
47	10.5'H X 9'W PRECAS	L.F.	3152	$ 1,500.00	$ 4,728,000.00	$ 1,276.71	$ 4,024,189.92	$ 1,660.00	$ 5,232,320.00	$ 1,314.00	$ 4,141,728.00
48	10'H X 14'W PRECAST	L.F.	1180	$ 2,300.00	$ 2,714,000.00	$ 2,024.89	$ 2,389,370.20	$ 2,423.00	$ 2,859,140.00	$ 2,000.00	$ 2,360,000.00
					$ 22,888,888.00		$ 23,480,922.38		$ 24,183,191.00		$ 24,631,423.00

Riverside County Flood Control & Water Conservation District
1995 Market St. Riverside, CA 92501 Phone: 951.955.1200 Fax: 951

Bid Abstract

Project Name: **PERRIS VALLEY CHANNEL LATERAL B, STAGE 4**
Project Number: 4-0-00009-04
Bid Open Date: 7/24/2025

				BEADOR CONST. CO., INC.		STEVE P. RADOS, INC.		AMES CONSTRUCTION INC.		CT&T CONCRETE PAVING INC.	
No.	Item Description	Unit	Quantity	Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal
1	MOBILIZATION	L.S.	1	$ 2,115,330.00	$ 2,115,330.00	$ 2,000,000.00	$ 2,000,000.00	$ 140,000.00	$ 140,000.00	$ 745,277.93	$ 745,277.93
2	WATER CONTROL	L.S.	1	$ 125,000.00	$ 125,000.00	$ 45,000.00	$ 45,000.00	$ 75,000.00	$ 75,000.00	$ 190,000.00	$ 190,000.00
3	TRAFFIC CONTROL	L.S.	1	$ 125,000.00	$ 125,000.00	$ 40,000.00	$ 40,000.00	$ 25,000.00	$ 25,000.00	$ 143,138.26	$ 143,138.26
4	CLEARING AND MISCI	L.S.	1	$ 500,000.00	$ 500,000.00	$ 300,000.00	$ 300,000.00	$ 450,000.00	$ 450,000.00	$ 529,365.08	$ 529,365.08
5	EXCAVATION	C.Y.	65630	$ 22.00	$ 1,443,860.00	$ 22.00	$ 1,443,860.00	$ 20.00	$ 1,312,600.00	$ 28.80	$ 1,890,144.00
6	PAVEMENT REMOVAL	C.Y.	31	$ 420.00	$ 13,020.00	$ 250.00	$ 7,750.00	$ 600.00	$ 18,600.00	$ 118.34	$ 3,668.54
7	BACKFILL	C.Y.	22450	$ 100.00	$ 2,245,000.00	$ 22.00	$ 493,900.00	$ 13.00	$ 291,850.00	$ 23.16	$ 519,942.00
8	CONTROLLED LOW S	C.Y.	2700	$ 305.00	$ 823,500.00	$ 220.00	$ 594,000.00	$ 345.00	$ 931,500.00	$ 292.46	$ 789,642.00
9	TRENCH SAFETY SYST	L.S.	1	$ 500,000.00	$ 500,000.00	$ 1,500,000.00	$ 1,500,000.00	$ 1,500,000.00	$ 1,500,000.00	$ 3,266,511.41	$ 3,266,511.41
10	CLASS "A" CONCRETE	C.Y.	6810	$ 920.00	$ 6,265,200.00	$ 1,213.00	$ 8,260,530.00	$ 1,512.00	$ 10,296,720.00	$ 1,095.00	$ 7,456,950.00
11	CLASS "A" CONCRETE	C.Y.	45	$ 2,135.00	$ 96,075.00	$ 2,500.00	$ 112,500.00	$ 2,700.00	$ 121,500.00	$ 2,944.00	$ 132,480.00
12	CLASS "A" CONCRETE	C.Y.	7	$ 2,250.00	$ 15,750.00	$ 1,000.00	$ 7,000.00	$ 1,700.00	$ 11,900.00	$ 5,121.53	$ 35,850.71
13	CLASS "A" CONCRETE	L.S.	1	$ 65,000.00	$ 65,000.00	$ 90,000.00	$ 90,000.00	$ 175,000.00	$ 175,000.00	$ 72,600.00	$ 72,600.00
14	CLASS "A" CONCRETE	L.S.	1	$ 37,500.00	$ 37,500.00	$ 60,000.00	$ 60,000.00	$ 85,000.00	$ 85,000.00	$ 38,900.00	$ 38,900.00
15	CLASS "B" CONCRETE	C.Y.	133	$ 695.00	$ 92,435.00	$ 300.00	$ 39,900.00	$ 450.00	$ 59,850.00	$ 524.23	$ 69,722.59
16	CLASS "B" CONCRETE	C.Y.	152	$ 1,035.00	$ 157,320.00	$ 2,200.00	$ 334,400.00	$ 1,200.00	$ 182,400.00	$ 1,728.30	$ 262,701.60
17	TRANSITION STRUCTU	C.Y.	42	$ 1,875.00	$ 78,750.00	$ 2,200.00	$ 92,400.00	$ 3,000.00	$ 126,000.00	$ 2,035.00	$ 85,470.00
18	TRANSITION STRUCTU	C.Y.	235	$ 890.00	$ 209,150.00	$ 2,000.00	$ 470,000.00	$ 2,400.00	$ 564,000.00	$ 977.71	$ 229,761.85
19	JUNCTION STRUCTUR	EACH	1	$ 85,000.00	$ 85,000.00	$ 20,000.00	$ 20,000.00	$ 25,000.00	$ 25,000.00	$ 97,350.00	$ 97,350.00
20	JUNCTION STRUCTUR	EACH	4	$ 6,560.00	$ 26,240.00	$ 40,000.00	$ 160,000.00	$ 22,000.00	$ 88,000.00	$ 28,875.00	$ 115,500.00
21	MANHOLE NO. 3	EACH	18	$ 4,200.00	$ 75,600.00	$ 4,000.00	$ 72,000.00	$ 2,500.00	$ 45,000.00	$ 8,686.36	$ 156,354.48
22	18" REINFORCED COI	L.F.	25	$ 445.00	$ 11,125.00	$ 300.00	$ 7,500.00	$ 400.00	$ 10,000.00	$ 798.46	$ 19,961.50
23	54" REINFORCED COI	L.F.	51	$ 930.00	$ 47,430.00	$ 350.00	$ 17,850.00	$ 650.00	$ 33,150.00	$ 469.23	$ 23,930.73
24	AGGREGATE BASE, CL	C.Y.	1200	$ 80.00	$ 96,000.00	$ 220.00	$ 264,000.00	$ 90.00	$ 108,000.00	$ 94.75	$ 113,700.00
25	HOT MIX ASPHALT (HI	TONS	830	$ 125.00	$ 103,750.00	$ 135.00	$ 112,050.00	$ 180.00	$ 149,400.00	$ 141.24	$ 117,229.20
26	6-FOOT CHAIN LINK F	L.F.	60	$ 260.00	$ 15,600.00	$ 260.00	$ 15,600.00	$ 332.00	$ 19,920.00	$ 612.87	$ 36,772.20
27	AIRFORCE BASE SECU	L.F.	2960	$ 115.00	$ 340,400.00	$ 220.00	$ 651,200.00	$ 80.00	$ 236,800.00	$ 158.90	$ 470,344.00
28	TEMPORARY SECURIT	L.F.	3830	$ 85.00	$ 325,550.00	$ 110.00	$ 421,300.00	$ 53.00	$ 202,990.00	$ 88.28	$ 338,112.40
29	TEMPORARY ILS (Instr	L.F.	1200	$ 100.00	$ 120,000.00	$ 100.00	$ 120,000.00	$ 95.00	$ 114,000.00	$ 48.20	$ 57,840.00
30	CABLE RAILING	L.F.	115	$ 135.00	$ 15,525.00	$ 190.00	$ 21,850.00	$ 178.00	$ 20,470.00	$ 316.86	$ 36,438.90
31	TUBULAR STEEL FENC	L.F.	56	$ 375.00	$ 21,000.00	$ 800.00	$ 44,800.00	$ 500.00	$ 28,000.00	$ 441.48	$ 24,722.88
32	TEMPORARY FENCIN(	L.F.	100	$ 95.00	$ 9,500.00	$ 100.00	$ 10,000.00	$ 150.00	$ 15,000.00	$ 137.55	$ 13,755.00
33	14-FOOT DOUBLE DR	EACH	1	$ 4,200.00	$ 4,200.00	$ 15,250.00	$ 15,250.00	$ 5,700.00	$ 5,700.00	$ 6,699.00	$ 6,699.00
34	MISCELLANEOUS IRO	LBS.	22180	$ 11.50	$ 255,070.00	$ 8.00	$ 177,440.00	$ 8.00	$ 177,440.00	$ 4.73	$ 104,911.40
35	ADJUST MANHOLE TO	EACH	8	$ 3,030.00	$ 24,240.00	$ 1,500.00	$ 12,000.00	$ 1,300.00	$ 10,400.00	$ 1,575.00	$ 12,600.00
36	SLOPED PROTECTION	EACH	2	$ 50,000.00	$ 100,000.00	$ 10,000.00	$ 20,000.00	$ 15,000.00	$ 30,000.00	$ 27,946.80	$ 55,893.60
37	RELOCATE SLUICE GA	L.S.	1	$ 325,000.00	$ 325,000.00	$ 110,000.00	$ 110,000.00	$ 205,000.00	$ 205,000.00	$ 223,619.25	$ 223,619.25
38	FLOW EQUALIZING W	EACH	5	$ 3,150.00	$ 15,750.00	$ 500.00	$ 2,500.00	$ 4,600.00	$ 23,000.00	$ 3,850.00	$ 19,250.00
39	TEMPORARY ACCESS	C.Y.	340	$ 105.00	$ 35,700.00	$ 40.00	$ 13,600.00	$ 80.00	$ 27,200.00	$ 67.29	$ 22,878.60
40	EXTRA DIRECTED WO	L.S.	1	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00
41	ROCK SLOPE PROTEC	C.Y.	530	$ 220.00	$ 116,600.00	$ 150.00	$ 79,500.00	$ 140.00	$ 74,200.00	$ 227.41	$ 120,527.30
42	FILTER MATERIAL	C.Y.	740	$ 155.00	$ 114,700.00	$ 60.00	$ 44,400.00	$ 180.00	$ 133,200.00	$ 231.77	$ 171,509.80
43	ROCK SLOPE PROTEC	S.Y.	590	$ 18.00	$ 10,620.00	$ 40.00	$ 23,600.00	$ 6.00	$ 3,540.00	$ 36.56	$ 21,570.40
44	DUST ABATEMENT	L.S.	1	$ 125,000.00	$ 125,000.00	$ 100,000.00	$ 100,000.00	$ 59,000.00	$ 59,000.00	$ 198,051.00	$ 198,051.00
45	HYDROSEEDING	ACRE	17.5	$ 5,500.00	$ 96,250.00	$ 5,100.00	$ 89,250.00	$ 3,300.00	$ 57,750.00	$ 5,415.30	$ 94,767.75
46	STORMWATER AND N	L.S.	1	$ 250,000.00	$ 250,000.00	$ 200,000.00	$ 200,000.00	$ 270,000.00	$ 270,000.00	$ 165,311.29	$ 165,311.29
47	10.5'H X 9'W PRECAS	L.F.	3152	$ 1,200.00	$ 3,782,400.00	$ 1,250.00	$ 3,940,000.00	$ 1,300.00	$ 4,097,600.00	$ 1,336.19	$ 4,211,670.88
48	10'H X 14'W PRECAST	L.F.	1180	$ 1,900.00	$ 2,242,000.00	$ 2,000.00	$ 2,360,000.00	$ 2,180.00	$ 2,572,400.00	$ 2,231.70	$ 2,633,406.00
					$ 24,698,140.00		$ 26,016,930.00		$ 26,209,080.00		$ 27,146,803.53

Riverside County Flood Control & Water Conservation District

1995 Market St. Riverside, CA 92501 Phone: 951.955.1200 Fax: 951.788.9965

Bid Abstract

Project Name: **PERRIS VALLEY CHANNEL LATERAL B, STAGE 4**

Project Number: 4-0-00009-04

Bid Open Date: 7/24/2025

No.	Item Description	Unit	Quantity	MOUNTAIN CASCADE, INC.		BOUDREAU PIPELINE CORP.		MIKE BUBALO CONST. CO. INC.		J/K EXCAVATION & GRADING CO. INC.	
				Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal
1	MOBILIZATION	L.S.	1	$ 900,000.00	$ 900,000.00	$ 743,000.00	$ 743,000.00	$ 1,610,000.00	$ 1,610,000.00	$ 1,244,500.00	$ 1,244,500.00
2	WATER CONTROL	L.S.	1	$ 130,000.00	$ 130,000.00	$ 189,000.00	$ 189,000.00	$ 100,000.00	$ 100,000.00	$ 104,800.00	$ 104,800.00
3	TRAFFIC CONTROL	L.S.	1	$ 200,000.00	$ 200,000.00	$ 372,000.00	$ 372,000.00	$ 75,000.00	$ 75,000.00	$ 67,500.00	$ 67,500.00
4	CLEARING AND MISCI	L.S.	1	$ 240,000.00	$ 240,000.00	$ 335,000.00	$ 335,000.00	$ 300,000.00	$ 300,000.00	$ 737,460.00	$ 737,460.00
5	EXCAVATION	C.Y.	65630	$ 35.00	$ 2,297,050.00	$ 46.00	$ 3,018,980.00	$ 50.00	$ 3,281,500.00	$ 19.70	$ 1,292,911.00
6	PAVEMENT REMOVAL	C.Y.	31	$ 81.00	$ 2,511.00	$ 257.00	$ 7,967.00	$ 600.00	$ 18,600.00	$ 190.00	$ 5,890.00
7	BACKFILL	C.Y.	22450	$ 27.00	$ 606,150.00	$ 33.00	$ 740,850.00	$ 25.00	$ 561,250.00	$ 53.50	$ 1,201,075.00
8	CONTROLLED LOW S	C.Y.	2700	$ 320.00	$ 864,000.00	$ 229.00	$ 618,300.00	$ 125.00	$ 337,500.00	$ 214.00	$ 577,800.00
9	TRENCH SAFETY SYST	L.S.	1	$ 950,000.00	$ 950,000.00	$ 2,040,000.00	$ 2,040,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 3,299,150.00	$ 3,299,150.00
10	CLASS "A" CONCRETE	C.Y.	6810	$ 1,618.00	$ 11,018,580.00	$ 1,013.00	$ 6,898,530.00	$ 1,500.00	$ 10,215,000.00	$ 1,123.00	$ 7,647,630.00
11	CLASS "A" CONCRETE	C.Y.	45	$ 4,000.00	$ 180,000.00	$ 3,144.00	$ 141,480.00	$ 2,500.00	$ 112,500.00	$ 4,200.00	$ 189,000.00
12	CLASS "A" CONCRETE	C.Y.	7	$ 3,800.00	$ 26,600.00	$ 2,180.00	$ 15,260.00	$ 2,000.00	$ 14,000.00	$ 4,480.00	$ 31,360.00
13	CLASS "A" CONCRETE	L.S.	1	$ 130,000.00	$ 130,000.00	$ 157,000.00	$ 157,000.00	$ 60,000.00	$ 60,000.00	$ 69,300.00	$ 69,300.00
14	CLASS "A" CONCRETE	L.S.	1	$ 30,000.00	$ 30,000.00	$ 86,000.00	$ 86,000.00	$ 50,000.00	$ 50,000.00	$ 36,960.00	$ 36,960.00
15	CLASS "B" CONCRETE	C.Y.	133	$ 300.00	$ 39,900.00	$ 284.00	$ 37,772.00	$ 900.00	$ 119,700.00	$ 372.00	$ 49,476.00
16	CLASS "B" CONCRETE	C.Y.	152	$ 500.00	$ 76,000.00	$ 288.00	$ 43,776.00	$ 600.00	$ 91,200.00	$ 1,418.00	$ 215,536.00
17	TRANSITION STRUCTU	C.Y.	42	$ 1,700.00	$ 71,400.00	$ 1,427.00	$ 59,934.00	$ 2,000.00	$ 84,000.00	$ 1,945.00	$ 81,690.00
18	TRANSITION STRUCTU	C.Y.	235	$ 1,600.00	$ 376,000.00	$ 1,467.00	$ 344,745.00	$ 800.00	$ 188,000.00	$ 943.00	$ 221,605.00
19	JUNCTION STRUCTUR	EACH	1	$ 94,000.00	$ 94,000.00	$ 20,196.00	$ 20,196.00	$ 15,000.00	$ 15,000.00	$ 92,990.00	$ 92,990.00
20	JUNCTION STRUCTUR	EACH	4	$ 77,000.00	$ 308,000.00	$ 26,860.00	$ 107,440.00	$ 25,000.00	$ 100,000.00	$ 6,570.00	$ 26,280.00
21	MANHOLE NO. 3	EACH	18	$ 6,000.00	$ 108,000.00	$ 12,400.00	$ 223,200.00	$ 15,000.00	$ 270,000.00	$ 6,450.00	$ 116,100.00
22	18" REINFORCED COI	L.F.	25	$ 280.00	$ 7,000.00	$ 571.00	$ 14,275.00	$ 800.00	$ 20,000.00	$ 1,310.00	$ 32,750.00
23	54" REINFORCED COI	L.F.	51	$ 500.00	$ 25,500.00	$ 737.00	$ 37,587.00	$ 900.00	$ 45,900.00	$ 1,460.00	$ 74,460.00
24	AGGREGATE BASE, CL	C.Y.	1200	$ 200.00	$ 240,000.00	$ 119.00	$ 142,800.00	$ 200.00	$ 240,000.00	$ 84.50	$ 101,400.00
25	HOT MIX ASPHALT (HI	TONS	830	$ 190.00	$ 157,700.00	$ 216.00	$ 179,280.00	$ 135.00	$ 112,050.00	$ 139.00	$ 115,370.00
26	6-FOOT CHAIN LINK F	L.F.	60	$ 2,000.00	$ 120,000.00	$ 293.00	$ 17,580.00	$ 70.00	$ 4,200.00	$ 131.00	$ 7,860.00
27	AIRFORCE BASE SECU	L.F.	2960	$ 90.00	$ 266,400.00	$ 248.00	$ 734,080.00	$ 125.00	$ 370,000.00	$ 317.00	$ 938,320.00
28	TEMPORARY SECURIT	L.F.	3830	$ 50.00	$ 191,500.00	$ 124.00	$ 474,920.00	$ 200.00	$ 766,000.00	$ 403.50	$ 1,545,405.00
29	TEMPORARY ILS (Instr	L.F.	1200	$ 40.00	$ 48,000.00	$ 85.00	$ 102,000.00	$ 50.00	$ 60,000.00	$ 135.50	$ 162,600.00
30	CABLE RAILING	L.F.	115	$ 190.00	$ 21,850.00	$ 212.00	$ 24,380.00	$ 120.00	$ 13,800.00	$ 131.00	$ 15,065.00
31	TUBULAR STEEL FENC	L.F.	56	$ 500.00	$ 28,000.00	$ 902.00	$ 50,512.00	$ 500.00	$ 28,000.00	$ 317.50	$ 17,780.00
32	TEMPORARY FENCIN(	L.F.	100	$ 64.00	$ 6,400.00	$ 117.00	$ 11,700.00	$ 75.00	$ 7,500.00	$ 134.50	$ 13,450.00
33	14-FOOT DOUBLE DR	EACH	1	$ 6,000.00	$ 6,000.00	$ 17,200.00	$ 17,200.00	$ 15,000.00	$ 15,000.00	$ 4,675.00	$ 4,675.00
34	MISCELLANEOUS IRO	LBS.	22180	$ 8.00	$ 177,440.00	$ 7.00	$ 155,260.00	$ 10.00	$ 221,800.00	$ 5.00	$ 110,900.00
35	ADJUST MANHOLE TO	EACH	8	$ 2,700.00	$ 21,600.00	$ 1,703.00	$ 13,624.00	$ 2,000.00	$ 16,000.00	$ 3,480.00	$ 27,840.00
36	SLOPED PROTECTION	EACH	2	$ 73,000.00	$ 146,000.00	$ 23,700.00	$ 47,400.00	$ 8,000.00	$ 16,000.00	$ 14,200.00	$ 28,400.00
37	RELOCATE SLUICE GA	L.S.	1	$ 260,000.00	$ 260,000.00	$ 266,000.00	$ 266,000.00	$ 50,000.00	$ 50,000.00	$ 78,750.00	$ 78,750.00
38	FLOW EQUALIZING W	EACH	5	$ 8,500.00	$ 42,500.00	$ 8,500.00	$ 42,500.00	$ 5,000.00	$ 25,000.00	$ 3,675.00	$ 18,375.00
39	TEMPORARY ACCESS	C.Y.	340	$ 230.00	$ 78,200.00	$ 55.00	$ 18,700.00	$ 300.00	$ 102,000.00	$ 55.00	$ 18,700.00
40	EXTRA DIRECTED WO	L.S.	1	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00
41	ROCK SLOPE PROTEC	C.Y.	530	$ 280.00	$ 148,400.00	$ 216.00	$ 114,480.00	$ 450.00	$ 238,500.00	$ 181.00	$ 95,930.00
42	FILTER MATERIAL	C.Y.	740	$ 74.00	$ 54,760.00	$ 124.00	$ 91,760.00	$ 200.00	$ 148,000.00	$ 180.00	$ 133,200.00
43	ROCK SLOPE PROTEC	S.Y.	590	$ 60.00	$ 35,400.00	$ 40.00	$ 23,600.00	$ 30.00	$ 17,700.00	$ 10.50	$ 6,195.00
44	DUST ABATEMENT	L.S.	1	$ 151,496.00	$ 151,496.00	$ 109,000.00	$ 109,000.00	$ 80,000.00	$ 80,000.00	$ 183,100.00	$ 183,100.00
45	HYDROSEEDING	ACRE	17.5	$ 5,600.00	$ 98,000.00	$ 5,662.00	$ 99,085.00	$ 5,000.00	$ 87,500.00	$ 5,170.00	$ 90,475.00
46	STORMWATER AND N	L.S.	1	$ 26,000.00	$ 26,000.00	$ 188,000.00	$ 188,000.00	$ 150,000.00	$ 150,000.00	$ 360,900.00	$ 360,900.00
47	10.5'H X 9'W PRECAS	L.F.	3152	$ 1,371.00	$ 4,321,392.00	$ 1,736.00	$ 5,471,872.00	$ 1,500.00	$ 4,728,000.00	$ 1,435.00	$ 4,523,120.00
48	10'H X 14'W PRECAST	L.F.	1180	$ 2,134.00	$ 2,518,120.00	$ 3,100.00	$ 3,658,000.00	$ 1,900.00	$ 2,242,000.00	$ 2,232.00	$ 2,633,760.00
					$ 28,845,849.00		$ 29,306,025.00		$ 29,408,200.00		$ 29,647,793.00

Riverside County Flood Control & Water Conservation District

1995 Market St. Riverside, CA 92501 Phone: 951.955.1200 Fax: 951.788.9965

Bid Abstract

Project Name: **PERRIS VALLEY CHANNEL LATERAL B, STAGE 4**

Project Number: 4-0-00009-04

Bid Open Date: 7/24/2025

No.	Item Description	Unit	Quantity	GRIFFITH COMPANY		LOS ANGELES ENGINEERING, INC.		NORSTAR PLUMBING & ENG. INC.		TC CONSTRUCTION CO. INC.	
				Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal	Unit Cost	SubTotal
1	MOBILIZATION	L.S.	1	$ 3,024,143.00	$ 3,024,143.00	$ 1,900,000.00	$ 1,900,000.00	$ 500,000.00	$ 500,000.00	$ 1,000,000.00	$ 1,000,000.00
2	WATER CONTROL	L.S.	1	$ 54,000.00	$ 54,000.00	$ 250,000.00	$ 250,000.00	$ 25,000.00	$ 25,000.00	$ 130,000.00	$ 130,000.00
3	TRAFFIC CONTROL	L.S.	1	$ 150,000.00	$ 150,000.00	$ 200,000.00	$ 200,000.00	$ 25,000.00	$ 25,000.00	$ 65,000.00	$ 65,000.00
4	CLEARING AND MISCL	L.S.	1	$ 475,000.00	$ 475,000.00	$ 950,000.00	$ 950,000.00	$ 600,000.00	$ 600,000.00	$ 1,325,000.00	$ 1,325,000.00
5	EXCAVATION	C.Y.	65630	$ 44.50	$ 2,920,535.00	$ 24.00	$ 1,575,120.00	$ 25.00	$ 1,640,750.00	$ 54.00	$ 3,544,020.00
6	PAVEMENT REMOVAL	C.Y.	31	$ 61.00	$ 1,891.00	$ 150.00	$ 4,650.00	$ 200.00	$ 6,200.00	$ 277.00	$ 8,587.00
7	BACKFILL	C.Y.	22450	$ 55.50	$ 1,245,975.00	$ 32.00	$ 718,400.00	$ 35.00	$ 785,750.00	$ 28.00	$ 628,600.00
8	CONTROLLED LOW S	C.Y.	2700	$ 373.00	$ 1,007,100.00	$ 260.00	$ 702,000.00	$ 235.00	$ 634,500.00	$ 450.00	$ 1,215,000.00
9	TRENCH SAFETY SYST	L.S.	1	$ 408,000.00	$ 408,000.00	$ 5,681,055.00	$ 5,681,055.00	$ 5,300,000.00	$ 5,300,000.00	$ 1,000,000.00	$ 1,000,000.00
10	CLASS "A" CONCRETE	C.Y.	6810	$ 1,390.00	$ 9,465,900.00	$ 1,350.00	$ 9,193,500.00	$ 1,287.00	$ 8,764,470.00	$ 1,816.00	$ 12,366,960.00
11	CLASS "A" CONCRETE	C.Y.	45	$ 2,999.00	$ 134,955.00	$ 4,010.00	$ 180,450.00	$ 3,600.00	$ 162,000.00	$ 4,900.00	$ 220,500.00
12	CLASS "A" CONCRETE	C.Y.	7	$ 3,999.00	$ 27,993.00	$ 3,500.00	$ 24,500.00	$ 3,500.00	$ 24,500.00	$ 7,200.00	$ 50,400.00
13	CLASS "A" CONCRETE	L.S.	1	$ 328,800.00	$ 328,800.00	$ 150,000.00	$ 150,000.00	$ 48,000.00	$ 48,000.00	$ 150,000.00	$ 150,000.00
14	CLASS "A" CONCRETE	L.S.	1	$ 180,000.00	$ 180,000.00	$ 85,000.00	$ 85,000.00	$ 48,000.00	$ 48,000.00	$ 73,000.00	$ 73,000.00
15	CLASS "B" CONCRETE	C.Y.	133	$ 337.00	$ 44,821.00	$ 260.00	$ 34,580.00	$ 1,900.00	$ 252,700.00	$ 560.00	$ 74,480.00
16	CLASS "B" CONCRETE	C.Y.	152	$ 1,414.00	$ 214,928.00	$ 1,000.00	$ 152,000.00	$ 1,650.00	$ 250,800.00	$ 2,300.00	$ 349,600.00
17	TRANSITION STRUCTU	C.Y.	42	$ 2,777.00	$ 116,634.00	$ 1,800.00	$ 75,600.00	$ 1,800.00	$ 75,600.00	$ 2,500.00	$ 105,000.00
18	TRANSITION STRUCTU	C.Y.	235	$ 1,730.00	$ 406,550.00	$ 1,500.00	$ 352,500.00	$ 1,750.00	$ 411,250.00	$ 2,200.00	$ 517,000.00
19	JUNCTION STRUCTUR	EACH	1	$ 8,850.00	$ 8,850.00	$ 15,000.00	$ 15,000.00	$ 8,500.00	$ 8,500.00	$ 19,000.00	$ 19,000.00
20	JUNCTION STRUCTUR	EACH	4	$ 31,100.00	$ 124,400.00	$ 7,000.00	$ 28,000.00	$ 15,000.00	$ 60,000.00	$ 22,000.00	$ 88,000.00
21	MANHOLE NO. 3	EACH	18	$ 1,818.00	$ 32,724.00	$ 4,500.00	$ 81,000.00	$ 4,600.00	$ 82,800.00	$ 2,400.00	$ 43,200.00
22	18" REINFORCED COI	L.F.	25	$ 240.00	$ 6,000.00	$ 625.00	$ 15,625.00	$ 800.00	$ 20,000.00	$ 950.00	$ 23,750.00
23	54" REINFORCED COI	L.F.	51	$ 295.00	$ 15,045.00	$ 650.00	$ 33,150.00	$ 900.00	$ 45,900.00	$ 350.00	$ 17,850.00
24	AGGREGATE BASE, CL	C.Y.	1200	$ 117.00	$ 140,400.00	$ 85.00	$ 102,000.00	$ 140.00	$ 168,000.00	$ 100.00	$ 120,000.00
25	HOT MIX ASPHALT (H	TONS	830	$ 177.00	$ 146,910.00	$ 130.00	$ 107,900.00	$ 190.00	$ 157,700.00	$ 192.00	$ 159,360.00
26	6-FOOT CHAIN LINK F	L.F.	60	$ 70.00	$ 4,200.00	$ 650.00	$ 39,000.00	$ 4,800.00	$ 288,000.00	$ 139.00	$ 8,340.00
27	AIRFORCE BASE SECU	L.F.	2960	$ 120.00	$ 355,200.00	$ 210.00	$ 621,600.00	$ 80.00	$ 236,800.00	$ 139.00	$ 411,440.00
28	TEMPORARY SECURIT	L.F.	3830	$ 77.00	$ 294,910.00	$ 90.00	$ 344,700.00	$ 58.00	$ 222,140.00	$ 140.00	$ 536,200.00
29	TEMPORARY ILS (Instr	L.F.	1200	$ 96.50	$ 115,800.00	$ 90.00	$ 108,000.00	$ 125.00	$ 150,000.00	$ 199.00	$ 238,800.00
30	CABLE RAILING	L.F.	115	$ 113.07	$ 13,003.05	$ 330.00	$ 37,950.00	$ 389.00	$ 44,735.00	$ 124.00	$ 14,260.00
31	TUBULAR STEEL FENC	L.F.	56	$ 443.65	$ 24,844.40	$ 450.00	$ 25,200.00	$ 754.00	$ 42,224.00	$ 480.00	$ 26,880.00
32	TEMPORARY FENCIN(	L.F.	100	$ 71.00	$ 7,100.00	$ 150.00	$ 15,000.00	$ 180.00	$ 18,000.00	$ 135.00	$ 13,500.00
33	14-FOOT DOUBLE DR	EACH	1	$ 13,374.06	$ 13,374.06	$ 7,200.00	$ 7,200.00	$ 12,000.00	$ 12,000.00	$ 12,000.00	$ 12,000.00
34	MISCELLANEOUS IRO	LBS.	22180	$ 6.15	$ 136,407.00	$ 4.00	$ 88,720.00	$ 7.00	$ 155,260.00	$ 2.00	$ 44,360.00
35	ADJUST MANHOLE TO	EACH	8	$ 1,121.00	$ 8,968.00	$ 600.00	$ 4,800.00	$ 2,500.00	$ 20,000.00	$ 1,400.00	$ 11,200.00
36	SLOPED PROTECTION	EACH	2	$ 31,015.00	$ 62,030.00	$ 5,000.00	$ 10,000.00	$ 22,000.00	$ 44,000.00	$ 25,000.00	$ 50,000.00
37	RELOCATE SLUICE GA	L.S.	1	$ 100,000.00	$ 100,000.00	$ 85,000.00	$ 85,000.00	$ 75,000.00	$ 75,000.00	$ 216,000.00	$ 216,000.00
38	FLOW EQUALIZING W	EACH	5	$ 2,386.00	$ 11,930.00	$ 6,000.00	$ 30,000.00	$ 3,500.00	$ 17,500.00	$ 8,500.00	$ 42,500.00
39	TEMPORARY ACCESS	C.Y.	340	$ 29.00	$ 9,860.00	$ 100.00	$ 34,000.00	$ 105.00	$ 35,700.00	$ 58.00	$ 19,720.00
40	EXTRA DIRECTED WO	L.S.	1	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00
41	ROCK SLOPE PROTEC	C.Y.	530	$ 179.00	$ 94,870.00	$ 260.00	$ 137,800.00	$ 130.00	$ 68,900.00	$ 115.00	$ 60,950.00
42	FILTER MATERIAL	C.Y.	740	$ 280.00	$ 207,200.00	$ 140.00	$ 103,600.00	$ 160.00	$ 118,400.00	$ 188.00	$ 139,120.00
43	ROCK SLOPE PROTEC	S.Y.	590	$ 13.00	$ 7,670.00	$ 10.00	$ 5,900.00	$ 40.00	$ 23,600.00	$ 26.00	$ 15,340.00
44	DUST ABATEMENT	L.S.	1		$ -	$ 150,000.00	$ 150,000.00	$ 100,000.00	$ 100,000.00	$ 590,000.00	$ 590,000.00
45	HYDROSEEDING	ACRE	17.5	$ 6,400.00	$ 112,000.00	$ 5,000.00	$ 87,500.00	$ 7,500.00	$ 131,250.00	$ 8,300.00	$ 145,250.00
46	STORMWATER AND N	L.S.	1	$ 195,000.00	$ 195,000.00	$ 100,000.00	$ 100,000.00	$ 125,000.00	$ 125,000.00	$ 600,000.00	$ 600,000.00
47	10.5'H X 9'W PRECAS	L.F.	3152	$ 1,380.00	$ 4,349,760.00	$ 1,250.00	$ 3,940,000.00	$ 2,700.00	$ 8,510,400.00	$ 1,600.00	$ 5,043,200.00
48	10'H X 14'W PRECAST	L.F.	1180	$ 2,140.00	$ 2,525,200.00	$ 2,000.00	$ 2,360,000.00	$ 2,780.00	$ 3,280,400.00	$ 2,100.00	$ 2,478,000.00
					$ 30,330,880.51		$ 31,948,000.00		$ 34,816,729.00		$ 35,011,367.00

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 8/21/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER GMGS Risk Management & Insurance Services 6201 Oak Canyon, Suite 100 Irvine, CA 92618 www.gmgs.com 0B84519	**CONTACT NAME:** Charise Ferguson **PHONE (A/C, No, Ext):** (949)559-3367 **FAX (A/C, No):** (949)559-6703 **E-MAIL ADDRESS:** charisef@gmgs.com
INSURED KEC Engineering 26320 Lester Circle Corona CA 92883	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** Travelers Indemnity Co of Connecticut — 25682 **INSURER B :** Travelers Property Casualty Co of Amer — 25674 **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 86795722 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	✓ **COMMERCIAL GENERAL LIABILITY** ☐ CLAIMS-MADE ☑ OCCUR ✓ XCU GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER:			DT22-CO-9323B109-TCT-25	7/1/2025	7/1/2026	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$2,000,000 $300,000 $5,000 $2,000,000 $4,000,000 $4,000,000
A	**AUTOMOBILE LIABILITY** ✓ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ✓ HIRED AUTOS ONLY ✓ NON-OWNED AUTOS ONLY Physical Damage: Comp $1,000/Coll $2,500			810-1N950054-25-26-G	7/1/2025	7/1/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$2,000,000 $ $ $
	☐ **UMBRELLA LIAB** ☐ OCCUR ☐ **EXCESS LIAB** ☐ CLAIMS-MADE ☐ DED ☐ RETENTION $						EACH OCCURRENCE AGGREGATE	$ $
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N: N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		UB-7N792894-25-26-G	7/1/2025	7/1/2026	✓ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Project No. 4-0-00009-04, Perris Valley Channel Lateral B, Stage 4
This certificate may be relied upon only if the certificate addendum referred to herein is attached hereto.

CERTIFICATE HOLDER

Perris Valley Channel Lateral B, Stage 4

Riverside County Flood Control & Water Conservation District
1995 Market Street
Riverside CA 92501

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Paul Bland

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AGENCY CUSTOMER ID: _____

LOC #: _____

ADDITIONAL REMARKS SCHEDULE

AGENCY	NAMED INSURED
GMGS Risk Management & Insurance Services	KEC Engineering 26320 Lester Circle Corona CA 92883
POLICY NUMBER	
CARRIER / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 **FORM TITLE:** Certificate of Liability Insurance (03/16)

HOLDER: Riverside County Flood Control & Water Conservation District

ADDRESS: 1995 Market Street Riverside CA 92501

RE: Project No. 4-0-00009-04, Perris Valley Channel Lateral B, Stage 4

As respects General Liability coverage, Riverside County Flood Control and Water Conservation District, the County of Riverside, the City of Perris, March Joint Powers Authority and March Air Reserve Base are added as Additional Insured per CGD2460419 attached, and this insurance is primary per CGT1000219 attached.

As respects General Liability coverage, 30-day written notice of cancellation (10 days for non-payment of premium) applies, per ILT4050519 attached.

As respects Automobile Liability coverage, Riverside County Flood Control and Water Conservation District, the County of Riverside, the City of Perris, March Joint Powers Authority and March Air Reserve Base are added as Additional Insured per CAT3530215 attached.

As respects Workers' Compensation coverage, a Waiver of Subrogation is hereby included, per WC990376 (A)-001 attached.

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ADDENDUM

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED
(Includes Products-Completed Operations If Required By Contract)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

PROVISIONS

The following is added to **SECTION II – WHO IS AN INSURED:**

Any person or organization that you agree in a written contract or agreement to include as an additional insured on this Coverage Part is an insured, but only:

a. With respect to liability for "bodily injury" or "property damage" that occurs, or for "personal injury" caused by an offense that is committed, subsequent to the signing of that contract or agreement and while that part of the contract or agreement is in effect; and

b. If, and only to the extent that, such injury or damage is caused by acts or omissions of you or your subcontractor in the performance of "your work" to which the written contract or agreement applies. Such person or organization does not qualify as an additional insured with respect to the independent acts or omissions of such person or organization.

The insurance provided to such additional insured is subject to the following provisions:

a. If the Limits of Insurance of this Coverage Part shown in the Declarations exceed the minimum limits required by the written contract or agreement, the insurance provided to the additional insured will be limited to such minimum required limits. For the purposes of determining whether this limitation applies, the minimum limits required by the written contract or agreement will be considered to include the minimum limits of any Umbrella or Excess liability coverage required for the additional insured by that written contract or agreement. This provision will not increase the limits of insurance described in Section III – Limits Of Insurance.

b. The insurance provided to such additional insured does not apply to:

(1) Any "bodily injury", "property damage" or "personal injury" arising out of the providing, or failure to provide, any professional architectural, engineering or surveying services, including:

(a) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders or change orders, or the preparing, approving, or failing to prepare or approve, drawings and specifications; and

(b) Supervisory, inspection, architectural or engineering activities.

(2) Any "bodily injury" or "property damage" caused by "your work" and included in the "products-completed operations hazard" unless the written contract or agreement specifically requires you to provide such coverage for that additional insured during the policy period.

c. The additional insured must comply with the following duties:

(1) Give us written notice as soon as practicable of an "occurrence" or an offense which may result in a claim. To the extent possible, such notice should include:

(a) How, when and where the "occurrence" or offense took place;

(b) The names and addresses of any injured persons and witnesses; and

(c) The nature and location of any injury or damage arising out of the "occurrence" or offense.

(2) If a claim is made or "suit" is brought against the additional insured:

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(a) Immediately record the specifics of the claim or "suit" and the date received; and

(b) Notify us as soon as practicable and see to it that we receive written notice of the claim or "suit" as soon as practicable.

(3) Immediately send us copies of all legal papers received in connection with the claim or "suit", cooperate with us in the investigation or settlement of the claim or defense against the "suit", and otherwise comply with all policy conditions.

(4) Tender the defense and indemnity of any claim or "suit" to any provider of other insurance which would cover such additional insured for a loss we cover. However, this condition does not affect whether the insurance provided to such additional insured is primary to other insurance available to such additional insured which covers that person or organization as a named insured as described in Paragraph 4., Other Insurance, of Section IV – Commercial General Liability Conditions.

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c. Method Of Sharing

If all of the other insurance permits contribution by equal shares, we will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first.

If any of the other insurance does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

d. Primary And Non-Contributory Insurance If Required By Written Contract

If you specifically agree in a written contract or agreement that the insurance afforded to an insured under this Coverage Part must apply on a primary basis, or a primary and non-contributory basis, this insurance is primary to other insurance that is available to such insured which covers such insured as a named insured, and we will not share with that other insurance, provided that:

(1) The "bodily injury" or "property damage" for which coverage is sought occurs; and

(2) The "personal and advertising injury" for which coverage is sought is caused by an offense that is committed;

subsequent to the signing of that contract or agreement by you.

5. Premium Audit

a. We will compute all premiums for this Coverage Part in accordance with our rules and rates.

b. Premium shown in this Coverage Part as advance premium is a deposit premium only. At the close of each audit period we will compute the earned premium for that period and send notice to the first Named Insured. The due date for audit and retrospective premiums is the date shown as the due date on the bill. If the sum of the advance and audit premiums paid for the policy period is greater than the earned premium, we will return the excess to the first Named Insured.

c. The first Named Insured must keep records of the information we need for premium computation, and send us copies at such times as we may request.

6. Representations

By accepting this policy, you agree:

a. The statements in the Declarations are accurate and complete;

b. Those statements are based upon representations you made to us; and

c. We have issued this policy in reliance upon your representations.

The unintentional omission of, or unintentional error in, any information provided by you which we relied upon in issuing this policy will not prejudice your rights under this insurance. However, this provision does not affect our right to collect additional premium or to exercise our rights of cancellation or nonrenewal in accordance with applicable insurance laws or regulations.

7. Separation Of Insureds

Except with respect to the Limits of Insurance, and any rights or duties specifically assigned in this Coverage Part to the first Named Insured, this insurance applies:

a. As if each Named Insured were the only Named Insured; and

b. Separately to each insured against whom claim is made or "suit" is brought.

8. Transfer Of Rights Of Recovery Against Others To Us

If the insured has rights to recover all or part of any payment we have made under this Coverage Part, those rights are transferred to us. The insured must do nothing after loss to impair them. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them.

9. When We Do Not Renew

If we decide not to renew this Coverage Part, we will mail or deliver to the first Named Insured shown in the Declarations written notice of the nonrenewal not less than 30 days before the expiration date.

If notice is mailed, proof of mailing will be sufficient proof of notice.

SECTION V – DEFINITIONS

1. "Advertisement" means a notice that is broadcast or published to the general public or specific market segments about your goods, products or services for the purpose of attracting customers or supporters. For the purposes of this definition:

a. Notices that are published include material placed on the Internet or on similar electronic means of communication; and

b. Regarding websites, only that part of a website that is about your goods, products or services for the purposes of attracting customers or supporters is considered an advertisement.

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POLICY NUMBER: DT22-CO-9323B109-TCT-25 ISSUE DATE:

KEC Engineering

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED PERSON OR ORGANIZATION – NOTICE OF CANCELLATION PROVIDED BY US

This endorsement modifies insurance provided under the following:

ALL COVERAGE PARTS INCLUDED IN THIS POLICY

SCHEDULE

CANCELLATION: **Number of Days Notice:** 30

PERSON OR ORGANIZATION:

ANY PERSON OR ORGANIZATION TO WHOM YOU HAVE AGREED IN A WRITTEN CONTRACT THAT NOTICE OF CANCELLATION OF THIS POLICY WILL BE GIVEN, BUT ONLY IF:
1. YOU SEND US A WRITTEN REQUEST TO PROVIDE SUCH NOTICE, INCLUDING THE NAME AND ADDRESS OF SUCH PERSON OR ORGANIZATION, AFTER THE FIRST NAMED INSURED RECEIVES NOTICE FROM US OF THE CANCELLATION OF THIS POLICY; AND
2. WE RECEIVE SUCH WRITTEN REQUEST AT LEAST 14 DAYS BEFORE THE BEGINNING OF THE APPLICABLE NUMBER OF DAYS SHOWN IN THIS ENDORSEMENT.

ADDRESS:

THE ADDRESS FOR THAT PERSON OR ORGANIZATION INCLUDED IN SUCH WRITTEN REQUEST FROM YOU TO US.

PROVISIONS

If we cancel this policy for any legally permitted reason other than nonpayment of premium, and a number of days is shown for Cancellation in the Schedule above, we will mail notice of cancellation to the person or organization shown in such Schedule. We will mail such notice to the address shown in the Schedule above at least the number of days shown for Cancellation in such Schedule before the effective date of cancellation.

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BUSINESS AUTO EXTENSION ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

GENERAL DESCRIPTION OF COVERAGE – This endorsement broadens coverage. However, coverage for any injury, damage or medical expenses described in any of the provisions of this endorsement may be excluded or limited by another endorsement to the Coverage Part, and these coverage broadening provisions do not apply to the extent that coverage is excluded or limited by such an endorsement. The following listing is a general coverage description only. Limitations and exclusions may apply to these coverages. Read all the provisions of this endorsement and the rest of your policy carefully to determine rights, duties, and what is and is not covered.

A. **BROAD FORM NAMED INSURED**
B. **BLANKET ADDITIONAL INSURED**
C. **EMPLOYEE HIRED AUTO**
D. **EMPLOYEES AS INSURED**
E. **SUPPLEMENTARY PAYMENTS – INCREASED LIMITS**
F. **HIRED AUTO – LIMITED WORLDWIDE COVERAGE – INDEMNITY BASIS**
G. **WAIVER OF DEDUCTIBLE – GLASS**
H. **HIRED AUTO PHYSICAL DAMAGE – LOSS OF USE – INCREASED LIMIT**
I. **PHYSICAL DAMAGE – TRANSPORTATION EXPENSES – INCREASED LIMIT**
J. **PERSONAL PROPERTY**
K. **AIRBAGS**
L. **NOTICE AND KNOWLEDGE OF ACCIDENT OR LOSS**
M. **BLANKET WAIVER OF SUBROGATION**
N. **UNINTENTIONAL ERRORS OR OMISSIONS**

PROVISIONS

A. BROAD FORM NAMED INSURED

The following is added to Paragraph **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE**:

Any organization you newly acquire or form during the policy period over which you maintain 50% or more ownership interest and that is not separately insured for Business Auto Coverage. Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier.

B. BLANKET ADDITIONAL INSURED

The following is added to Paragraph **c.** in **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE**:

Any person or organization who is required under a written contract or agreement between you and that person or organization, that is signed and executed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to be named as an additional insured is an "insured" for Covered Autos Liability Coverage, but only for damages to which this insurance applies and only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Section II.

C. EMPLOYEE HIRED AUTO

1. The following is added to Paragraph **A.1., Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE**:

   An "employee" of yours is an "insured" while operating an "auto" hired or rented under a contract or agreement in an "employee's" name, with your permission, while performing duties related to the conduct of your business.

2. The following replaces Paragraph **b.** in **B.5., Other Insurance**, of **SECTION IV – BUSINESS AUTO CONDITIONS**:

   b. For Hired Auto Physical Damage Coverage, the following are deemed to be covered "autos" you own:

      (1) Any covered "auto" you lease, hire, rent or borrow; and

      (2) Any covered "auto" hired or rented by your "employee" under a contract in an "employee's" name, with your

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TRAVELERS

WORKERS COMPENSATION AND EMPLOYERS LIABILITY POLICY

ENDORSEMENT WC 99 03 76 (A)

POLICY NUMBER: UB-7N792894-25-26-G

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT CALIFORNIA (BLANKET WAIVER)

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule.

The additional premium for this endorsement shall be 2.0 % of the California workers' compensation premium.

Schedule

Person or Organization	Job Description
ANY PERSON OR ORGANIZATION FOR WHICH THE INSURED HAS AGREED BY WRITTEN CONTRACT EXECUTED PRIOR TO LOSS TO FURNISH THIS WAIVER	

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective 7/1/2025 Policy No. UB-7N792894-25-26-G Endorsement No.

Insured KEC Engineering Premium

Insurance Company Countersigned by

DATE OF ISSUE: - - **ST ASSIGN:**

07/01/2025

EVIDENCE OF PROPERTY INSURANCE

DATE (MM/DD/YYYY): 8/26/2025

THIS EVIDENCE OF PROPERTY INSURANCE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE ADDITIONAL INTEREST NAMED BELOW. THIS EVIDENCE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS EVIDENCE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE ADDITIONAL INTEREST.

AGENCY	PHONE (A/C, No, Ext): (949)559-3367
GMGS Risk Management & Insurance Services 6201 Oak Canyon, Suite 100 Irvine, CA 92618	
0B84519 www.gmgs.com	
FAX (A/C, No): (949)559-6703	E-MAIL ADDRESS: charisef@gmgs.com
CODE:	SUB CODE:
AGENCY CUSTOMER ID #:	

COMPANY
Atlantic Specialty Insurance Company 605 Highway 169 North, Suite 800 Plymouth MN 55441

INSURED	LOAN NUMBER	POLICY NUMBER
KEC Engineering 26320 Lester Circle Corona CA 92883		790042525-0000

EFFECTIVE DATE	EXPIRATION DATE	CONTINUED UNTIL TERMINATED IF CHECKED
11/1/2025	1/26/2027	☐

THIS REPLACES PRIOR EVIDENCE DATED:

PROPERTY INFORMATION

LOCATION/DESCRIPTION

Perris Valley Channel Lateral B, Stage 4
Location: 215 FWY & Harley Knox Blvd, Perris, CA 92571

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS EVIDENCE OF PROPERTY INSURANCE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

COVERAGE INFORMATION

PERILS INSURED ☐ BASIC ☐ BROAD ✓ SPECIAL ☐

COVERAGE / PERILS / FORMS	AMOUNT OF INSURANCE	DEDUCTIBLE
Builders Risk - Occurrence Limit of Insurance Replacement Cost, No Coinsurance	$19,900,000	$10,000
Flood	$1,000,000	$250,000
Earthquake	$1,000,000	$250,000
Construction Property at Temporary Locations	$500,000	$10,000
Construction Property In Transit	$500,000	$10,000

REMARKS (Including Special Conditions)

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

ADDITIONAL INTEREST

NAME AND ADDRESS

Riverside County Flood Control & Water Conservation District
1995 Market Street
Riverside CA 92501

☐ ADDITIONAL INSURED ☐ LENDER'S LOSS PAYABLE ☐ LOSS PAYEE
☐ MORTGAGEE ☐

LOAN #

AUTHORIZED REPRESENTATIVE

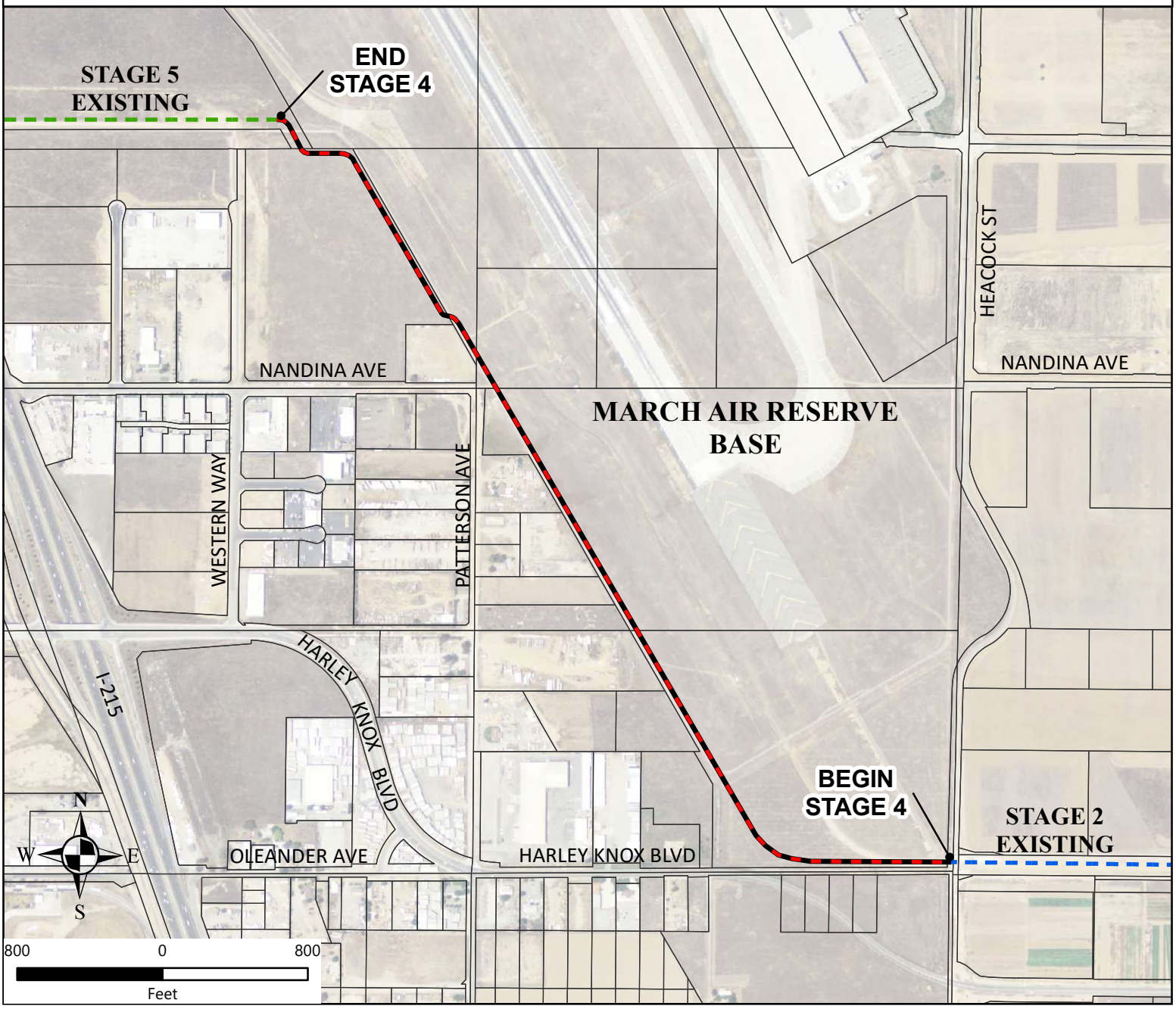
Paul Bland

ACORD 27 (2016/03)

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PERRIS VALLEY CHANNEL LATERAL B, STAGE 4
PROJECT No. 4-0-00009-04



Perris Valley Channel Lateral B, stage 4 Project is a District-led storm drain improvement project of approximately 6,000 linear feet of underground reinforced concrete box that will reduce flooding to the March Air Reserve Base (MARB) and enable future storm drain extensions and flood protection to adjacent properties west of the Base.

The Project is located along the west perimeter of MARB and East of I215NB on or adjacent to property within the MARB, City of Perris , the March Joint Powers Authority (MJPA) and private properties within recently recorded District easements.

The project will collect 100-year runoff from the existing Perris Valley Channel Lateral B, Stage 5 storm drain, and will convey the flows south-east to the existing Perris Valley Channel Lateral B, Stage 2 at Heacock Street. The District will be responsible for the operation and maintenance of the facility once constructed.