

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



**ITEM: 3.57**  
(ID # 18012)

**MEETING DATE:**

Tuesday, November 29, 2022

**FROM :** TLMA-TRANSPORTATION:

**SUBJECT:** TRANSPORTATION AND LAND MANAGEMENT AGENCY/TRANSPORTATION:  
Ratify and Approve Amendment No. 1 to the Engineering Services Agreement Between the County of Riverside and NCM Engineering Corp for the Temescal Canyon Road Widening Project - Dawson Canyon Segment, and Amendment No. 1 to the Engineering Services Agreement Between the County of Riverside and NCM Engineering Corp for the Temescal Canyon Road Widening Project - Dos Lagos Segment, in the Temescal Valley Area. District 1. [\$418,391 Total Cost - Local Funds 100%]

**RECOMMENDED MOTION:** That the Board of Supervisors:

1. Ratify and approve Amendment No. 1 to the Engineering Services Agreement between the County of Riverside and NCM Engineering Corp for the Temescal Canyon Road Widening Project - Dawson Canyon Segment in the amount of \$95,227.79, modifying the engineering services as necessary for the design and construction support for utility relocations and right-of-way acquisition, and extending the project completion date to June 30, 2024;
2. Ratify and approve Amendment No. 1 to the Engineering Services Agreement between the County of Riverside and NCM Engineering Corp for the Temescal Canyon Road Widening Project - Dos Lagos Segment in the amount of \$323,163.58, modifying the engineering services as necessary for the design and construction support for utility relocations and right-of-way acquisition, and extending the project completion date to June 30, 2024; and
3. Authorize the Chair of the Board to execute the same on behalf of the County of Riverside.

**ACTION:Policy**

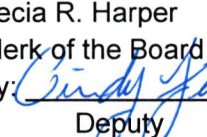
  
Mark Lancaster, Director of Transportation 10/25/2022

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**MINUTES OF THE BOARD OF SUPERVISORS**

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

Ayes: Jeffries, Spiegel, Washington, Hewitt, and Perez  
Nays: None  
Absent: None  
Date: November 29, 2022  
xc: Trans.

Kecia R. Harper  
Clerk of the Board  
By:   
Deputy

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

<b>FINANCIAL DATA</b>	<b>Current Fiscal Year:</b>	<b>Next Fiscal Year:</b>	<b>Total Cost:</b>	<b>Ongoing Cost</b>
<b>COST</b>	\$ 398,391	\$ 20,000	\$ 418,391	\$ 0
<b>NET COUNTY COST</b>	\$ 0	\$ 0	\$ 0	\$ 0
<b>SOURCE OF FUNDS:</b> Gas Tax/HUTA (100%). There are no General Funds used in this project.			<b>Budget Adjustment:</b> No	
			<b>For Fiscal Year:</b> 22/23 - 23/24	

**C.E.O. RECOMMENDATION:** Approve

**BACKGROUND:**

**Summary**

At its meeting on May 24, 2016 by agenda item 3-21, the County Board of Supervisors (Board) approved the Engineering Services Agreement with NCM Engineering Corp (NCM) in the amount of \$955,896.73 for the Temescal Canyon Road Widening Project - Dawson Canyon Segment (Dawson Canyon Project) located from Dawson Canyon Road to 0.7 mile north of Dawson Canyon Road.

At the same meeting under the same agenda item, the Board approved the Engineering Services Agreement with NCM in the amount of \$754,317.59 for the Temescal Canyon Road Widening Project - Dos Lagos Segment (Dos Lagos Project) located from Dos Lagos Drive to Leroy Road.

The Dawson Canyon Project and Dos Lagos Project (the Projects) are both located within the Temescal Valley area and were constructed together under one construction contract. The Board issued a Notice of Completion for the construction of the Projects in 2021.

The Projects required additional design services to be performed by NCM beyond the scope of the original agreement, including managing utility company relocation processes, redesigning improvements around unanticipated utility conflicts, tracking contractor change orders, and other services to support the efficient delivery of the project. Ongoing work consists of support to complete right-of-way acquisition processes, as-built plan preparation, utility company processing, and related tasks.

The additional services for the Dawson Canyon Project are to be authorized through Amendment No. 1 to the NCM Engineering Services Agreement in the amount of \$95,227.79.

The additional services for the Dos Lagos Project are to be authorized through Amendment No. 1 to the NCM Engineering Services Agreement in the amount of \$323,163.58.

The amendments to the agreements have been approved as to form by County Counsel.

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

Dawson Canyon Project No. C5-0072, Contract No. 16-03-004  
Dos Lagos Project No. C6-0066, Contract No. 16-03-005.

**Impact on Residents and Businesses**

The widening of Temescal Canyon Road from a 2-lane rural road to a 4-lane major highway with sidewalks and bike lanes between Dos Lagos Drive and Dawson Canyon Road was a critical project to address congestion on Temescal Canyon Road resulting from increased regional traffic and overflow traffic from Interstate 15. The widened street now operates with increased efficiency for residents, commercial businesses, and emergency responders with enhanced facilities for bicyclists and pedestrians, including pedestrians with disabilities.

**SUPPLEMENTAL:**

**Additional Fiscal Information**

The amended agreements will be funded 100% through Gas Tax/HUTA. No County General Funds are used in this project. When approved by the Board, the amendments will authorize the extension of the contracts through June 30, 2024.

**Contract History and Price Reasonableness**

The consultant's work was monitored by County staff and the consultant's fee is consistent with consultant work performed for other County projects of similar scope and complexity.

**ATTACHMENTS:**

Vicinity Map

Dawson Canyon Project - Amendment No. 1

Dos Lagos Project - Amendment No. 1

  
\_\_\_\_\_  
Jason Farin, Principal Management Analyst 11/22/2022

  
\_\_\_\_\_  
Kristine Bell-Valdez, Supervising Deputy County Counsel 11/15/2022

1                   **AMENDMENT NO. 1 TO THE ENGINEERING SERVICES AGREEMENT**  
2                   **FOR TEMESCAL CANYON ROAD WIDENING – DAWSON CANYON SEGMENT (C5-0072)**  
3                   **BETWEEN COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT**  
4                   **AND NCM ENGINEERING CORP**

5  
6                   This Amendment No. 1 to the Engineering Services Agreement for Temescal Canyon Road Widening  
7                   – Dawson Canyon Segment (C5-0072) (hereinafter "AMENDMENT NO. 1") is made and entered into  
8                   as of this 29 day of November, 2022, by and between the County of Riverside, a  
9                   political subdivision of the State of California, (hereinafter "COUNTY") and NCM Engineering Corp, a  
10                  California corporation, (hereinafter "ENGINEER").

11  
12                   **RECITALS**

- 13                  A. COUNTY and ENGINEER have entered in an agreement entitled "Engineering Services Agreement for  
14                  Temescal Canyon Road Widening – Dawson Canyon Segment (C5-0072) between County of Riverside  
15                  Transportation Department and NCM Engineering Corp" on May 24, 2016 (County of Riverside Board  
16                  of Supervisors Agenda Item 3.21) (hereinafter the "CONTRACT"). The CONTRACT provides the terms  
17                  and conditions, scope of work, schedule and budget for the performance of professional and technical  
18                  services necessary to complete all the phases: 1) Phase I – Preliminary Engineering, 2) Phase II –  
19                  Final Engineering (PS&E), and 3) Phase III – Bid Support and Construction Support for the Project.
- 20                  B. Appendix A of the CONTRACT provides the detailed Scope of Services for performing all the phases.
- 21                  C. Appendix B • Article BI • Introduction of the CONTRACT established the time period for performing the  
22                  scope of Services detailed in Appendix A. The terms and conditions specify that all covenants set forth  
23                  in the CONTRACT shall be completed by December 31, 2021.
- 24                  D. Appendix C • Article CI • Elements of Compensation of the CONTRACT establishes the Elements of  
25                  Compensation. Appendix C • Article CII • Direct Salary Rates, Subsection B provides the Position or  
26                  Classification Maximum Hourly Rates and allows the ENGINEER the opportunity to request rate  
27                  adjustments on an annual basis after the first three (3) years of the CONTRACT. Appendix C • Article  
28                  CV • Cost Proposal contains the total amount of the contract, which is not to exceed **\$955,896.73**.

- 1 E. In order to meet the expedited project delivery schedule, COUNTY requires ENGINEER to perform  
2 additional engineering services not currently set forth in Appendix A of the CONTRACT necessary for  
3 the design and construction support for utility relocations and other items.
- 4 F. This AMENDMENT NO. 1 adds engineering services to the CONTRACT (hereinafter "ADDITIONAL  
5 SERVICES"), including engineering tasks for the final design plans, specifications, and cost estimate  
6 (PS&E) in Phase II and engineering support during the bid process and construction in Phase III in the  
7 amount of **\$146,104.94**.
- 8 G. This AMENDMENT NO. 1 deducts certain engineering services from the CONTRACT (hereinafter  
9 "DEDUCTED SERVICES") in the amount of **\$50,877.15**.
- 10 H. With this AMENDMENT NO. 1, the net increase between the ADDITIONAL SERVICES and the  
11 DEDUCTED SERVICES is **\$95,227.79**, which represents **9.96%** of the original CONTRACT amount of  
12 **\$955,896.73**.

13  
14 **AGREEMENT**

15 NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties agree  
16 as follows:

- 17 1. Appendix A is amended to add the ADDITIONAL SERVICES and deduct the DEDUCTED  
18 SERVICES as set forth in **AMENDMENT NO. 1 - APPENDIX 1A SCOPE OF WORK**, which is  
19 attached hereto and incorporated herein.
- 20 2. The second sentence of Appendix B • Article BI • Introduction is amended to extend the project  
21 completion date from December 31, 2021 to June 30, 2024 as follows: "All Covenants set forth in  
22 this Agreement, as amended, shall be completed by June 30, 2024, unless extended by  
23 supplemental agreement."
- 24 3. Article VI • Compensation and Appendix C • Article CV • Cost Proposal are amended to increase  
25 the contract not to exceed amount by **\$95,227.79** for a total not to exceed amount of **\$1,051,124.52**  
26 in accordance with the attached Fee Proposal entitled "**AMENDMENT NO. 1 - APPENDIX 1B FEE**  
27 **PROPOSAL**" attached hereto and incorporated herein.
- 28 4. Except to the extent specifically modified or amended hereunder, all of the terms, covenants and

Amendment No. 1 -Temescal Canyon Road Widening – Dawson Canyon Segment (C5-0072)

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conditions of the CONTRACT shall remain in full force and effect between the parties hereto.

5. This AMENDMENT NO. 1 to the CONTRACT shall be effective December 31, 2021.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK; SIGNATURE PAGE FOLLOWS]

Amendment No. 1 -Temescal Canyon Road Widening – Dawson Canyon Segment (C5-0072)

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**APPROVALS**

IN WITNESS HEREOF, the parties hereto have caused this AMENDMENT NO. 1 to the CONTRACT to be duly executed this day and year first written above.

**COUNTY Approvals**

RECOMMENDED FOR APPROVAL

Dated: 11-8-22  
Mark Lancaster

MARK LANCASTER, Director of Transportation

APPROVED AS TO FORM:

COUNTY COUNSEL

Dated: 11/11/22  
Danielle Maland

DANIELLE MALAND, Deputy

APPROVAL BY THE BOARD OF SUPERVISORS:

Dated: 11/29/2022  
Jeff Hewitt

JEFF HEWITT, Chair of the Board

ATTEST:

Dated: 11/29/2022  
Cecilia Harper

KECIA HARPER, Clerk of the Board (SEAL)

**ENGINEER Approvals**

NCM ENGINEERING CORP:

Dated: 11/02/2022  
Mohan S. Char

MOHAN S. CHAR, Chief Executive Officer

NCM ENGINEERING CORP:

Dated: 11/02/2022  
Stephen J. Mislinski

STEPHEN J. MISLINSKI, President

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**AMENDMENT NO. 1 – APPENDIX 1A**  
**SCOPE OF WORK**



1 This AMENDMENT NO. 1 addresses the increased level of design effort and bid & construction support  
2 effort as detailed below.

3  
4 **1. ADDITIONAL WORK - FUNDED BY COUNTY PROJECT**

5 **1.1 [NOT USED]**

6 **1.2 PHASE III - BID & CONSTRUCTION SUPPORT**

7 **1.2.1 As-Built Plan Preparation (Additional Revisions)**

8 The additional complexity of the project and numerous additional utilities found during construction  
9 and the associated design revisions will significantly increase the effort to complete the As-Built  
10 plans.

11 **1.2.2 Onsite Engineering Design Support (private properties)**

12 **1.2.2.1 Schock - Curb Modification for Oak Tree Preservation**

13 ENGINEER to coordinate with COUNTY to design a new curb and gutter with a taller, reinforced  
14 curb, to reduce grading impacts next to an existing oak tree in the front yard of the Landscape  
15 Supply Store (i.e. the Schock property).

16 Provide new details to the COUNTY PROJECT MANAGER for review, comments, and corrections.

17 **1.2.2.2 Clendenin - Driveway and Storm Drain Tie-In**

18 ENGINEER to coordinate with COUNTY to obtain a new survey for the recently constructed  
19 Clendenin driveway, storm drains, and parking lot adjacent to Temescal Canyon Road. Complete  
20 a field review to verify any new utility facilities. ENGINEER to design a new driveway tie-in and any  
21 modifications to the storm drainage systems. Provide additional details, plans, and update the  
22 quantities and Engineer's Estimate.

23 **1.2.2.3 Corona Clay - Tree Screening Preservation**

24 ENGINEER to coordinate with COUNTY to meet in the field, measure, and individually select trees  
25 along the golf course driving range to be protected-in-place in order to enhance the visual screening  
26 of the driving range.

27 **1.2.3 Utility Activities - SCE, AT&T, Gas Unknown Conflicts**

28 **1.2.3.1 RFIs - Research, Design and Response**

1 As the complexity and the construction schedule of the project has increased, the number of  
2 Requests for Information (RFIs) is significantly more than originally expected. Many of the RFI's  
3 are the result of unexpected, unknown, utilities requiring new designs for storm drainage systems,  
4 and utility appurtenances (i.e. blow-offs, air-vacuum-release valves, fire hydrants, and water  
5 meters, etc.).

6 1.2.3.2 Permit Application Reviews

7 ENGINEER to complete permit application reviews of utility relocation designs to confirm that the  
8 utility relocation designs will not conflict with other utilities or roadway facilities. Provide comments  
9 to the COUNTY for the issuance of relocation permits.

10 1.2.3.3 Field Meetings

11 ENGINEER to attend additional field meetings as requested by the COUNTY to review newly  
12 discovered utilities and coordinate with COUNTY construction staff and utility owners regarding the  
13 potential utility impacts to the project.

14 1.2.3.4 Storm Drain Design Revisions to Avoid New Utility Conflicts

15 ENGINEER to coordinate with COUNTY to evaluate drainage system designs for newly discovered  
16 utility conflicts including:

- 17 • Drainage Lateral B-3, where AT&T telephone conduits and a vault were inadvertently  
18 relocated in conflict with this drainage lateral. Consider repositioning the drainage lateral  
19 to miss the relocated conduits and vault. COUNTY will provide additional survey data.  
20 Provide new storm drain plans and profiles.
- 21 • Drainage inlet and Lateral F-2, where new locations for the 42" EVMWD waterline, the 14"  
22 TVWD agricultural waterline, and an AT&T duct bank conflict with the drainage inlet and  
23 storm drain lateral. Consider repositioning the inlet and lateral. COUNTY will provide  
24 additional survey data. Provide new storm drain plans and profiles.

25 1.2.3.5 Utility Company Coordination, Scheduling, and Follow Up

26 ENGINEER to continue coordination with the utility companies along the Dawson Canyon Segment  
27 to respond to requests for additional information regarding unknown and unrecorded utilities and  
28 to expedite utility crew scheduling for utility relocations and to reduce impacts to the construction

1 schedule.

2 1.2.4 Other Construction Support

3 1.2.4.1 Bi-Weekly Construction Coordination Meetings

4 As the construction project schedule has extended, ENGINEER to continue attending the bi-weekly  
5 construction coordination meetings. Approximately 20 additional meetings are expected.

6 1.2.4.2 PCC Road Pavement Design at Dawson Canyon Road

7 ENGINEER to coordinate with COUNTY to prepare a construction detail plan sheet showing  
8 concrete pavement and joints (instead of the asphalt concrete pavement) for the northbound to  
9 eastbound free moving right turn at the Dawson Canyon Road intersection. It was observed that  
10 the turning forces from the heavily loaded trucks headed to the landfill would likely warp and  
11 excessively wear the proposed new asphalt concrete pavement.

12 1.2.4.3 Parking Lot Redesign for ADA Compliance – Landscape Supply Store

13 ENGINEER to prepare plans, curb profiles, and details to upgrade the existing parking lot at the  
14 Landscape Supply Store (23125 Temescal Canyon Road) to current ADA standards. Upgrades to  
15 include ADA compliant parking spaces, access route from the parking spaces to the sidewalk at  
16 the edge of the parking lot, and sidewalk to the building's front door. Include striping plans for  
17 modifications to the parking spaces. ENGINEER to coordinate with COUNTY to retain newly  
18 constructed curbs and the aggregate base pavement layer to the extent practicable.

19 1.2.4.4 Review Construction Records for Coordination Efforts for Various Water Agencies

20 ENGINEER to assist the COUNTY and review construction records for waterline coordination  
21 efforts during construction for the following water agencies: City of Corona, Temescal Valley Water  
22 District, Elsinore Valley Municipal Water District, and Santa Ana Watershed Project Authority.  
23 Review construction records and develop a summary allocating the construction hours associated  
24 with the various waterline relocations to the appropriate water agencies.

25 1.2.5 Finishing project - This task involves compiling all the project related data electronically and  
26 furnishing them to the COUNTY.

27 1.2.6 Miscellaneous Work as Directed by the COUNTY

28 This task involves performing miscellaneous support services for the PROJECT as specifically

Amendment No. 1 -Temescal Canyon Road Widening – Dawson Canyon Segment (C5-0072)

1 directed by the COUNTY PROJECT MANAGER. ENGINEER must obtain COUNTY PROJECT  
2 MANAGER approval prior to incurring expenses under this category.

3 **2. EXTRA WORK - WATER FACILITIES**

4 **2.1 PHASE II - PS&E**

5 2.1.1 City of Corona

6 ENGINEER to complete utility plans, details, specifications, and Engineer's Estimates to relocate  
7 the City's 18" waterline at two locations, for storm drain lines "B and C", and "Line D"; and to transfer  
8 water service connections from the City's water pipelines to the TVWD pipelines. Design activities  
9 will include:

- 10 • Preparation of detailed utility conflict maps showing relocations on the utility plans and  
11 drainage plans and profiles.
- 12 • Attend coordination meetings with the City to review identified conflicts and discuss  
13 relocation designs.
- 14 • Attend coordination meetings with the City of Corona and the Temescal Valley Water  
15 District to review identified water service transfers and design requirements. ENGINEER  
16 to continue research with the City water department and field reviews to identify and  
17 locate water services to be transferred.
- 18 • Coordinate with the Doug Mays, the WATERLINE DESIGN ENGINEER, to set up the utility  
19 detail plan sheets, provide profiles for the storm drain pipelines, and CADD files.
- 20 • Review waterline relocation specifications, and coordinate bid items with the COUNTY.
- 21 • Coordinate shut down requirements.
- 22 • Provide assistance to answer bidder's questions.
- 23 • Prepare bid addenda as requested by the COUNTY
- 24 • Coordinate with the COUNTY to reconcile and summarize hours and costs for water  
25 agency design and coordination efforts.

26 2.1.2 Temescal Valley Water District

27 ENGINEER to complete utility plans, details, specifications, and Engineer's Estimates to relocate  
28 TVWD's 20" waterline and 14" agricultural waterline for storm drain lines "B and C", and to transfer

Amendment No. 1 -Temescal Canyon Road Widening – Dawson Canyon Segment (C5-0072)

1 water service connections from the City's water pipelines to the TVWD's pipelines. Design activities  
2 will include:

- 3 • Preparation of detailed utility conflict maps showing relocations on the utility plans and  
4 drainage plans and profiles.
- 5 • Attend coordination meetings with the TVWD to review identified conflicts and discuss  
6 relocation designs.
- 7 • Attend coordination meetings with the City of Corona and TVWD to review identified water  
8 service transfers and design requirements. ENGINEER to continue research with the  
9 City water department and field reviews to identify and locate water services to be  
10 transferred.
- 11 • Coordinate with Doug Mays, the WATERLINE DESIGN ENGINEER, to set up the utility  
12 detail plan sheets, provide profiles for the storm drain pipelines, and CADD files.
- 13 • Review waterline relocation specifications, and coordinate bid items with the COUNTY.
- 14 • Coordinate shut down requirements.
- 15 • Provide assistance to answer bidders' questions.
- 16 • Prepare bid addenda as requested by the COUNTY
- 17 • Coordinate with the COUNTY to reconcile and summarize hours and costs for water  
18 agency design and coordination efforts.

19 2.1.3 Elsinore Valley Municipal Water District

20 ENGINEER to coordinate with EVMWD for the relocation of the EVMWD's 42" waterline for storm  
21 drain lines "B and C". (Please note: this waterline design will be completed by the EVMWD's  
22 Engineer). ENGINEER'S coordination activities will include:

- 23 • Preparation of detailed utility conflict maps showing relocations on the utility plans and  
24 drainage plans and profiles.
- 25 • Attend coordination meetings with the EVMWD to review identified conflicts and discuss  
26 relocation designs.
- 27 • Coordinate with the EVMWD's Engineer to set up the utility detail plan sheets, provide  
28 profiles for the storm drain pipelines, and CADD files.

Amendment No. 1 -Temescal Canyon Road Widening – Dawson Canyon Segment (C5-0072)

- 1           • Review waterline relocation specifications, and coordinate bid items with the COUNTY.
- 2           Add a 42" butterfly valve as an alternative bid item.
- 3           • Coordinate shut down requirements.
- 4           • Provide assistance to answer bidders' questions.
- 5           • Prepare bid addenda as requested by the COUNTY.
- 6           • Coordinate with the COUNTY to reconcile and summarize hours and costs for water
- 7           agency design and coordination efforts.

8           2.1.4 Santa Ana Watershed Project Authority

9           ENGINEER to coordinate with SAWPA and to prepare designs to protect-in-place the SAWPA 24"  
10          Brine Force Main. Coordination and design activities will include:

- 11          • Preparation of detailed utility maps showing the revised designs for storm drain lines "B and
- 12          C" that will avoid the need to relocate the 24" Brine Force Main on the utility plans and
- 13          drainage plans and profiles.
- 14          • Design and develop details and a plan sheet to protect the 24" Brine Force Main and
- 15          coordinate with SAWPA to obtain approval.
- 16          • Coordinate with the COUNTY to reconcile and summarize hours and costs for water agency
- 17          design and coordination efforts.

18          **2.2 PHASE III - BID & CONSTRUCTION SUPPORT**

19          2.2.1 City of Corona

20          ENGINEER to provide construction phase engineering support for the City of Corona's waterline  
21          facilities in the Dawson Canyon Segment including:

- 22          • Review water meters, fire hydrants and other waterline facilities that need to be relocated
- 23          for the new roadway construction, even though the waterline service transfers were deleted
- 24          from the Construction contract.
- 25          • Coordinate with the City to review designs for the 18" waterline relocations for storm drain
- 26          lines "B and C", and "Line D". Coordinate with Doug Mays, the WATERLINE DESIGN
- 27          ENGINEER, to redesign the relocations to take into account that the relocated pipe are
- 28          ductile iron with mechanical joints and that these pipelines will have be extended farther to

1 accommodate the thrust forces created by bends in the relocated pipelines.

- 2 • Coordinate with the City to continue design reviews of the 18" waterline relocations for storm  
3 drain "Lines B and C" and "Line D". Consider the use of welded steel pipe for the waterline  
4 relocations in order to reduce the potential for leakage at the pipeline joints, simplify  
5 construction, and shorten the relocation time. Coordinate with Doug Mays, the WATERLINE  
6 DESIGN ENGINEER, to redesign the relocations as requested by the City.
- 7 • Provide plans, profiles, and details for routing the lateral piping from the waterlines to the  
8 roadway edge for air vacuum release valves, blow-offs and other appurtenances.
- 9 • Coordinate with the COUNTY to reconcile and summarize hours and costs for water agency  
10 construction support efforts.

11 2.2.2 Temescal Valley Water District

12 ENGINEER to provide construction phase engineering support for the TVWD waterline facilities in  
13 the Dawson Canyon Segment including:

- 14 • Provide plans, profiles, and details for routing the lateral piping from the waterlines to the  
15 roadway edge for air vacuum release valves, blow-offs, and other appurtenances.
- 16 • Coordinate with the COUNTY to reconcile and summarize hours and costs for water agency  
17 construction support efforts.

18 2.2.3 Elsinore Valley Municipal Water District

19 ENGINEER to provide construction phase engineering support for EVMWD's waterline facilities in  
20 the Dawson Canyon Segment including:

- 21 • Coordinate with EVMWD, as needed, for newly discovered utilities located next to  
22 the 42" waterline. COUNTY will provide additional survey data. Plot survey data  
23 and confirm clearances between the 42" waterline and adjacent utilities, and  
24 proposed storm drain lines "B and C".
- 25 • Provide plans, profiles, and details for routing the lateral piping from the waterlines  
26 to the roadway edge for air vacuum release valves, blow-offs, and other  
27 appurtenances.
- 28 • Coordinate with the COUNTY to reconcile and summarize hours and costs for

water agency construction support efforts.

2.2.4 Santa Ana Watershed Project Authority

ENGINEER to provide construction phase engineering support for the Santa Ana Watershed Project Authority's waterline facilities in the Dawson Canyon Segment including:

- Respond SAWPA comments on the concrete encasement details and updated the details for the 24" SAWPA Brine Force Main. Provide structural calculations.
- Coordinate with SAWPA, as needed, for newly discovered utilities located next to the 24" Brine Force Main. COUNTY will provide additional survey data. Plot survey data and confirm clearances between the 24" Brine Force Main and adjacent utilities, and proposed storm drain lines "B and C".
- Design and develop new details to protect the 24" SAWPA Brine Force Main while allowing excavation and relocation (i.e. lowering) the 42" EVMWD waterline.
- Coordinate with the COUNTY to reconcile and summarize hours and costs for water agency construction support efforts.

3. DEDUCT WORK

3.1 PHASE II - PS&E

3.1.1 FIBER OPTIC PLAN

At COUNTY's direction, ENGINEER shall not prepare Fiber Optic Plans consisting of 5 – 22"x34" drawings at 1" = 40" scale showing conduit, pull box, vault installation and fiber assignment detail drawings.

3.1.2 LEGAL DESCRIPTIONS AND PLAT MAPS

At COUNTY's direction, ENGINEER shall not prepare 2 - 8.5" x 11" legal descriptions, plat maps, metes and bounds descriptions or strip descriptions for 16 locations, for a total of 32 legal descriptions and plats not being prepared.

Option deleted - LIN CONSULTING, INC. (Fiber Optic)	(\$12,729.61)
Option deleted - PSOMAS (Legals and Plats)	(\$38,147.54)

TOTALING (\$50,877.15)



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**AMENDMENT NO. 1 – APPENDIX 1B**  
**FEE PROPOSAL**

Amendment No. 1 -Temescal Canyon Road Widening – Dawson Canyon Segment (C5-0072)

**NCM Engineering Corp - Temescal Canyon Road Widening Projects**

Scope of work	Dawson Canyon Segment C5-0072
<b>ORIGINAL CONTRACT</b>	
Board approved contract amount with all optional work	<b>955,896.73</b>
<b>EXTRA WORK</b>	
<b>PHASE II - PS&amp;E</b>	
<b>2.1.1 Water District work</b>	
1) City of Corona	28,704.72
2) TVWD	13,450.50
3) EVMWD	1,897.10
4) SAWPA	2,467.10
<b>PHASE III - Bid &amp; Construction Support</b>	
<b>1.2.1 As-Built Plan Preparation (additional revisions)</b>	7,769.46
<b>1.2.2 Onsite Engineering Design Support (private properties)</b>	13,319.68
1) Schock - curb modification for oak tree preservation	
2) Clendenin - Driveway and Storm Drain Tie-In	
3) Corona Clay - Tree Screening Preservation	
<b>1.2.3 Utility Activities - unknown conflicts (SCE, AT&amp;T, Gas)</b>	12,532.24
1) RFIs - research, design and response	
2) Permit application reviews	
3) Field meetings	
4) Storm drain design revisions to avoid new conflicts	
5) Utility company coordination, scheduling and follow up	
<b>1.2.4 Other construction support</b>	28,150.17
1) Bi-weekly construction coordination meetings	
2) PCC Road Pavement Design at Dawson Canyon Road	
3) Parking Lot Redesign for ADA Compliance – Landscape Supply Store	
4) Review Construction Records for Coordination Efforts for Various Water Agencies	
5) Finishing project	
6) Miscellaneous Work as Directed by the County	
<b>1.2.5 Finishing project</b>	3,453.54
<b>1.2.6 Miscellaneous Work as Directed by the County</b>	13,532.74
<b>2.2.1 Water District work</b>	
1) City of Corona	11,383.26
2) TVWD	385.42
3) EVMWD	1,619.10
4) SAWPA	7,439.91
<b>TOTAL EXTRA WORK</b>	<b>146,104.94</b>
<b>DEDUCT SERVICES</b>	
<b>3.1.1 Fiber Optic Plan (Lin)</b>	(12,729.61)
<b>3.1.2 Legal Descriptions and Plat Maps (Psomas)</b>	(38,147.54)
<b>TOTAL DEDUCT</b>	<b>(50,877.15)</b>
<b>ADJUSTED CONTRACT AMOUNT</b>	
Net adjusted budget under contract Amendment No. 1	<b>1,051,124.52</b>

**AMENDMENT NO. 1 TO THE ENGINEERING SERVICES AGREEMENT  
FOR TEMESCAL CANYON ROAD WIDENING – DOS LAGOS SEGMENT (C6-0066)  
BETWEEN COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT  
AND NCM ENGINEERING CORP**

This Amendment No. 1 to the Engineering Services Agreement for Temescal Canyon Road Widening – Dos Lagos Segment (C6-0066) (hereinafter "AMENDMENT NO. 1") is made and entered into as of this 29<sup>th</sup> day of November, 2022, by and between the County of Riverside, a political subdivision of the State of California, (hereinafter "COUNTY") and NCM Engineering Corp, a California corporation, (hereinafter "ENGINEER").

**RECITALS**

- A. COUNTY and ENGINEER have entered in an agreement entitled "Engineering Services Agreement for Temescal Canyon Road Widening – Dos Lagos Segment (C6-0066) between County of Riverside Transportation Department and NCM Engineering Corp" on May 24, 2016 (County of Riverside Board of Supervisors Agenda Item 3.21) (hereinafter the "CONTRACT"). The CONTRACT provides the terms and conditions, scope of work, schedule and budget for the performance of professional and technical services necessary to complete all the phases: 1) Phase I – Preliminary Engineering, 2) Phase II – Final Engineering (PS&E), and 3) Phase III – Bid Support and Construction Support for the Project.
- B. Appendix A of the CONTRACT provides the detailed Scope of Services for performing all the phases.
- C. Appendix B • Article BI • Introduction of the CONTRACT established the time period for performing the scope of services detailed in Appendix A. The terms and conditions specify that all covenants set forth in the CONTRACT shall be completed by December 31, 2021.
- D. Appendix C • Article CI • Elements of Compensation of the CONTRACT establishes the Elements of Compensation. Appendix C • Article CII • Direct Salary Rates, Subsection B provides the Position or Classification Maximum Hourly Rates and allows the ENGINEER the opportunity to request rate adjustments on an annual basis after the first three (3) years of the CONTRACT. Appendix C • Article CV • Cost Proposal contains the total amount of the contract, which is not to exceed **\$754,317.59**.

NOV 29 2022 3:57

Amendment No. 1 -Temescal Canyon Road Widening - Dos Lagos Segment (C6-0066)

- 1 E. In order to meet the expedited project delivery schedule, COUNTY requires ENGINEER to perform  
2 additional engineering services not currently set forth in Appendix A of the CONTRACT necessary for  
3 the design and construction support for utility relocations and other items.
- 4 F. This AMENDMENT NO. 1 adds engineering services to the CONTRACT (hereinafter "ADDITIONAL  
5 SERVICES"), including engineering tasks for the final design plans, specifications, and cost estimate  
6 (PS&E) in Phase II and engineering support during the bid process and construction in Phase III in the  
7 amount of **\$385,782.34**.
- 8 G. This AMENDMENT NO. 1 deducts certain engineering services from the CONTRACT (hereinafter  
9 "DEDUCTED SERVICES") in the amount of **\$62,618.76**.
- 10 H. With this AMENDMENT NO. 1, the net increase between the ADDITIONAL SERVICES and the  
11 DEDUCTED SERVICES is **\$323,163.58** which represents **42.84%** of the original CONTRACT amount  
12 of **\$754,317.59**.

13  
14 **AGREEMENT**

15 NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties agree  
16 as follows:

- 17 1. Appendix A is amended to add the ADDITIONAL SERVICES and deduct the DEDUCTED  
18 SERVICES as set forth in **AMENDMENT NO. 1 - APPENDIX 1A SCOPE OF WORK**, which is  
19 attached hereto and incorporated herein.
- 20 2. The second sentence of Appendix B • Article BI • Introduction is amended to extend the project  
21 completion date from December 31, 2021 to June 30, 2024 as follows: "All Covenants set forth in  
22 this Agreement, as amended, shall be completed by June 30, 2024, unless extended by  
23 supplemental agreement."
- 24 3. Article VI • Compensation and Appendix C • Article CV • Cost Proposal are amended to increase  
25 the contract not to exceed amount by **\$323,163.58** for a total not to exceed amount of **\$1,077,481.17**  
26 in accordance with the attached Fee Proposal entitled "**AMENDMENT NO. 1 - APPENDIX 1B FEE**  
27 **PROPOSAL**" attached hereto and incorporated herein.
- 28 4. Except to the extent specifically modified or amended hereunder, all of the terms, covenants and

Amendment No. 1 -Temescal Canyon Road Widening - Dos Lagos Segment (C6-0066)

1 conditions of the CONTRACT shall remain in full force and effect between the parties hereto.

2 5. This AMENDMENT NO. 1 to the CONTRACT shall be effective December 31, 2021.

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4 [REMAINDER OF PAGE INTENTIONALLY LEFT BLANK; SIGNATURE PAGE FOLLOWS]

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Amendment No. 1 -Temescal Canyon Road Widening - Dos Lagos Segment (C6-0066)

**APPROVALS**

IN WITNESS HEREOF, the parties hereto have caused this AMENDMENT NO. 1 to the CONTRACT to be duly executed this day and year first written above.

**COUNTY Approvals**

RECOMMENDED FOR APPROVAL

Dated: 11-0-22  
Mark Lancaster

MARK LANCASTER, Director of Transportation

**ENGINEER Approvals**

NCM ENGINEERING CORP:

Dated: 11/02/2022  
Mohan S. Char

MOHAN S. CHAR, Chief Executive Officer

APPROVED AS TO FORM:

COUNTY COUNSEL

Dated: 11/29/22  
Danielle Maland

DANIELLE MALAND, Deputy

NCM ENGINEERING CORP:

Dated: 11/02/2022  
Stephen J. Mislinski

STEPHEN J. MISLINSKI, President

APPROVAL BY THE BOARD OF SUPERVISORS:

Dated: 11/29/22  
Jeff Hewitt

JEFF HEWITT, Chair of the Board

ATTEST:

Dated: 11/29/22  
Kecia Harper

KECIA HARPER, Clerk of the Board (SEAL)

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**AMENDMENT NO. 1 – APPENDIX 1A**  
**SCOPE OF WORK**

1 The amended work addresses the increased level of design effort and bid & construction support effort  
2 detailed below.

3  
4 **1. ADDITIONAL WORK - FUNDED BY COUNTY PROJECT**

5 **1.1 PHASE II - PS&E**

6 **1.1.1 Construction Staging Plans**

7 ENGINEER will provide construction staging plans (14 sheets) for the Dos Lagos Segment to be  
8 included into the construction contract documents. These plans will address the following special  
9 construction requirements:

- 10 • Maintaining traffic and construction staging for the entire Dos Lagos Segment and the Leroy  
11 Road, Foster Road, and Dos Lagos Drive intersections with Temescal Canyon Road.
- 12 • Maintaining traffic and construction staging for Foster Road and Dial Way Court.
- 13 • Maintaining access to all property driveways unless shown otherwise on the plans.
- 14 • Provide details for construction of the retaining wall from Sta. 150+13.92 to Sta. 153+90.00  
15 and the existing nearby power poles to remain while the retaining wall is constructed. Provide  
16 notes for temporary shoring if needed to protect the existing power poles.
- 17 • Provide details for temporary hot mix asphalt (HMA) as needed to facilitate maintaining traffic  
18 through the various stages of construction.
- 19 • Provide Temporary Railing (Type K) to separate traffic from the contractor's work zones.  
20 Provide openings for access to adjacent driveways and temporary signs to direct motorists.

21 **1.1.2 Tree Surveys and Removal Plans**

22 ENGINEER will complete a tree removal exhibit to be included as Contractor's information in the  
23 bidding documents. This task includes:

- 24 • Field reviews to examine site conditions, approximate limits of grading, and to obtain an  
25 approximate number of trees to be removed.
- 26 • Field reviews and coordination with the existing oak tree survey to identify oak trees to be  
27 removed and oak trees to be retained. Summarize oak trees to be removed by their tree rating  
28 (i.e. dead, hazard, poor, fair, good, and excellent).



Amendment No. 1 -Temescal Canyon Road Widening - Dos Lagos Segment (C6-0066)

- Coordinate the tree removal exhibit with the street improvement plans for consistency.

1.1.3 Pavement Structure Plans

ENGINEER will prepare Pavement Structure Plans (3 sheets) to indicate the presence of concrete beneath the existing AC pavement. Evaluate the new roadway pavement design to identify locations where the new roadway structural section will extend lower (beneath) the existing pavement surface.

ENGINEER will coordinate with the COUNTY MATERIALS ENGINEER to complete up to 6 pavement cores to investigate the depth to concrete beneath the existing AC pavement. This data will be summarized in the Pavement Structure Plans.

ENGINEER will coordinate with the COUNTY'S PROJECT MANAGER to establish a bid item, approximate quantity, unit price, and total cost for removing concrete below the existing AC pavement.

The Pavement Structure plans will also show the area of the existing roadway pavement to be removed along with the existing AC pavement thicknesses obtained from utility potholes, geotechnical borings, and pavement cores.

1.1.4 Full Trash Capture Device Plans, Details, and Specifications

ENGINEER will prepare additional drainage details and a plan sheet to incorporate full trash capture devices into the drainage inlets along the Dos Lagos Segment, including plans, dimensions, details, and specifications.

1.1.5 Reference Standard Plan Sheets

ENGINEER will prepare Reference Standard Plans (12 sheets) containing the standard plans referenced within the Dos Lagos Segment plan set including: the Standard Plans for Public Works Construction, The Riverside County Flood Control & Water Conservation District, the City of Corona, the Temescal Valley Water District, and the Riverside County Transportation Department.

1.1.6 RIGHT-OF-WAY ENGINEERING SUPPORT (DURING NEGOTIATIONS)

ENGINEER to coordinate with COUNTY and provide additional engineering support services during the COUNTY'S right-of-way negotiations with the property owners. Provide written answers to questions, attend meetings, prepare exhibits depicting the future constructed roadway conditions, including truck turning exhibits, etc. as requested by the COUNTY

1 1.1.7 UTILITY ACTIVITIES - ADDITIONAL

2 1.1.7.1 Potholing Contractor

3 Based upon initial potholing results, the COUNTY has authorized the ENGINEER to contract with Bess  
4 Test Labs to complete 30 supplemental potholes for the Dos Lagos Segment.

5 1.1.7.2 Potholing Data Processing

6 Upon receipt of the supplemental potholing results and COUNTY survey data, ENGINEER will  
7 evaluate the roadway and drainage system designs for any adjustments that could reduce utility  
8 impacts. Incorporate the supplemental potholing results into the utility and drainage plans and profiles.  
9 Coordinate with the COUNTY and utility owners as needed.

10 1.1.7.3 Storm Drain Revisions to Avoid Utility Conflicts

11 ENGINEER to review and evaluate existing storm drain system designs for opportunities to reduce  
12 utility impacts. ENGINEER to consider the following:

- 13 • Storm drain Lateral B-1, for the first segment of this lateral crossing Temescal Canyon Road,  
14 consider: raising the pipe connection at the entrance inlet, increasing the pipe slope, and  
15 decreasing the pipe diameter to avoid relocating the following: 1) 24" Temescal Valley Water  
16 District (TVWD) waterline, 2) Centurylink fiber optic duct bank, and 3) 8"high-pressure gas  
17 pipeline.
- 18 • Storm drain Lateral B-1, for the segment adjacent to the easterly curb of Temescal Canyon  
19 Road, consider moving the storm drain pipeline easterly to increase the clearance to the  
20 parallel 8" high-pressure gas pipeline to avoid relocating this gas pipeline.
- 21 • Storm drain Lateral C-1, for the first segment of the lateral after the headwall and pipeline  
22 entrance, consider raising this portion of the drainage system to avoid the need to relocate  
23 a 4" medium-pressure gas pipeline.

24 1.1.7.4 Utility Company Coordination

25 Twelve utility companies are involved with this segment of the Temescal Canyon Road Project  
26 including: 1) AT&T, 2) Charter, 3) Crown Castle Fiber, 4) Centurylink, 5) Southern California Edison,  
27 6) Elsinore Valley Municipal Water District, 7) Temescal Valley Water District, 8) Santa Ana Watershed  
28 Project Authority, 9) City of Corona, 10) USA Waste, 11) Southern California Gas, and 12) Frontier.

1 ENGINEER to continue utility coordination efforts with the above utilities with regular meetings, phone  
2 calls, e-mails, exhibits etc. ENGINEER to identify existing utility facilities, confirm utility conflicts, and  
3 obtain construction requirements (i.e. advance utility notifications, site preparation requirements, and  
4 working day windows for utility relocations). These requirements will be incorporated into the Special  
5 Provisions.

6 **1.2 PHASE III - BID & CONSTRUCTION SUPPORT**

7 1.2.1 As-Built Plan Preparation (Additional Revisions)

8 The additional complexity of the project and numerous additional utilities found during construction  
9 and the associated design revisions will significantly increase the effort to complete the As-Built plans.

10 1.2.2 Onsite Engineering Design Support (Private Properties)

11 1.2.2.1 Rockefellas - Onsite Concrete Design, Added Stairs

12 ENGINEER will prepare new details for reconstructing the front patio and parking areas for Rockefellas  
13 Bar. Revise the concrete patio limits to include the entire front patio area up to the existing building,  
14 and add a new entrance stairway that connects to the sidewalk along Temescal Canyon Road.  
15 Provide details for the new entrance stairway connection to the already constructed masonry block  
16 wall. Please note, a portion of this block wall will have to be removed. Update concrete pavement  
17 and asphalt concrete pavement surface elevations and slopes to be ADA compliant. Update surface  
18 drainage as needed. Develop layouts for concrete pavement joints and consider additional reinforcing  
19 in an effort to control cracks.

20 Provide new details to the COUNTY PROJECT MANAGER for review, comments, and corrections.

21 ENGINEER and COUNTY REPRESENTATIVES will meet with the Rockefellas owner to present and  
22 discuss the new details. After the owners review, make revisions to the details as requested by the  
23 COUNTY.

24 1.2.2.2 Ferraro - Turnaround Driveway Design

25 ENGINEER to coordinate with COUNTY to develop new details for construction of a turnaround for  
26 the Ferraro driveway. Consider existing nearby trees to be protected, and consider concrete  
27 pavement joints and additional reinforcing in an effort to control cracks.

28 1.2.2.3 Vander Molen - Useable Area, Fill Calculations

Amendment No. 1 -Temescal Canyon Road Widening - Dos Lagos Segment (C6-0066)

1 ENGINEER to coordinate with COUNTY to develop two alternatives to reduce grading impacts to the  
2 Vander Molen properties (APN 282-122-001 and 282-122-002). Prepare exhibits, plans, driveway  
3 profiles, and cross sections. Determine quantities and prepare Engineer's Estimates. Include a new  
4 driveway for parcel 282-122-002.

5 Provide alternatives to the COUNTY PROJECT MANAGER for review, comments, and corrections.

6 Provide up to four updates to the alternatives in support of the COUNTY'S negotiations with the  
7 property owner.

8 1.2.2.4 Nexstar - Retaining Wall Design

9 ENGINEER to coordinate with COUNTY to develop a retaining wall alternative to reduce grading  
10 impacts to the Nexstar property located at the southeast corner of Temescal Canyon Road and Foster  
11 Road. Develop a preliminary retaining wall design as an alternative to the 2:1 graded slope currently  
12 shown on the plans. Determine quantities and prepare an Engineer's Estimate.

13 Provide alternative to the COUNTY PROJECT MANAGER for review, comments, and corrections.

14 Provide up to four updates to the alternative in support of the COUNTY'S negotiations with the property  
15 owner.

16 1.2.2.5 Mendoza Driveway

17 ENGINEER to coordinate with COUNTY to develop alternative driveway layouts, profiles, and cross  
18 sections to reduce the grade of the driveway. COUNTY will provide additional survey data, if needed.

19 ENGINEER to consider adjacent grading, drainage, and TCE limits. Driveway profile will be checked  
20 for large trucks that could be needed to remove 40' long shipping (storage) containers located on-site.

21 Provide alternatives to the COUNTY PROJECT MANAGER for review, comments, and corrections.

22 Provide up to four updates to the alternatives in support of the COUNTY'S negotiations with the  
23 property owner.

24 1.2.2.6 Steele - Driveway Drains

25 ENGINEER to provide additional construction driveway plans and profiles to increase the cover over  
26 the proposed drainage pipelines under the two driveways for the Steel Property on Foster Road.

27 1.2.3 Utility Activities - SCE, AT&T, Gas Unknown Conflicts

28 1.2.3.1 RFIs - research, design and response

Amendment No. 1 -Temescal Canyon Road Widening - Dos Lagos Segment (C6-0066)

1 As the complexity and the construction schedule of the project has increased, the number of Requests  
2 for Information (RFIs) is significantly more than originally expected. Many of the RFI's are the result  
3 of unexpected, unknown, utilities requiring new designs for storm drainage systems, and utility  
4 appurtenances (i.e. blow-offs, air-vacuum-release valves, fire hydrants, and water meters, etc.).

5 1.2.3.2 Permit Application Reviews

6 ENGINEER to complete permit application reviews of utility relocation designs to confirm that the utility  
7 relocation designs will not conflict with other utilities or roadway facilities. Provide comments to the  
8 COUNTY for the issuance of relocation permits.

9 1.2.3.3 Field Meetings

10 ENGINEER to attend additional field meetings as requested by the COUNTY to review newly  
11 discovered utilities and coordinate with COUNTY construction staff and utility owners regarding the  
12 potential utility impacts to the project.

13 1.2.3.4 Utility Company Coordination, Scheduling, and Follow Up

14 ENGINEER to continue coordination with the utility companies along the Dos Lagos Segment to  
15 respond to requests for additional information regarding unknown and unrecorded utilities and to  
16 expedite utility crew scheduling for utility relocations and to reduce impacts to the construction  
17 schedule.

18 1.2.4 Other Construction Support

19 1.2.4.1 Bi-Weekly Construction Coordination Meetings

20 As the construction project schedule has extended, ENGINEER to continue attending the bi-weekly  
21 construction coordination meetings. Approximately 20 additional meetings are expected.

22 1.2.4.2 "Stagecoach" Form Liner Engineering Support

23 ENGINEER to provide construction phase engineering support for the "Stagecoach" form liner to be  
24 incorporated into the retaining wall. Review shop drawings and coordinate with the "Stagecoach"  
25 ARCHITECT and provide comments, make inspections to review fabrication of the form liners, and  
26 provide engineering assistance to position construction joints, and other engineering services and  
27 requested by COUNTY.

28 1.2.4.3 Storm Drain Lateral C-1 Headwall

Amendment No. 1 -Temescal Canyon Road Widening - Dos Lagos Segment (C6-0066)

1 ENGINEER to provide additional construction details to add a wing wall to the Lateral C-1 headwall  
2 next to the Ferraro driveway. Consider construction excavation requirements and access impacts to  
3 the nearby driveway.

4 1.2.4.4 Sportsman's Bar

5 Engineer to coordinate with COUNTY to evaluate the concrete paving placed at the entrance to the  
6 Sportsman's Bar to determine compliance with ADA requirements. COUNTY will provide additional  
7 survey data, if needed.

8 1.2.4.5 SCE Power Line Anchor at Sta. 168+60

9 ENGINEER to provide a revised curb and gutter alignment and profile to adjust the curb and gutter as  
10 needed to avoid a guy wire anchor that was found to be closer to the new roadway than previously  
11 surveyed.

12 1.2.4.6 Buried Concrete Slab beneath the Existing AC Pavement

13 ENGINEER to coordinate with COUNTY to revise the roadway design from Sta.167+00 to Sta. 168+85  
14 near the Dos Lagos Road intersection due to a newly discovered concrete slab under the existing AC  
15 pavement. COUNTY will provide additional survey data, if needed. Review existing utility records  
16 and new information obtained during construction to determine, if possible, if the concrete slab is  
17 protecting any existing utilities. Consider if the slab can partially or completely removed. Consider  
18 the roadway alignment, profile, cross slopes for the left turn pocket, northbound through lanes and the  
19 adjacent bike lane. Consider existing utility surface features, and new paving limits. Develop up to  
20 three alternatives.

21 Provide alternatives to the COUNTY PROJECT MANAGER for review, comments, and corrections.

22 1.2.4.7 Adjust SAWPA Manhole to Grade

23 ENGINEER to coordinate with COUNTY to develop two alternatives to adjust the SAWPA manhole  
24 located at Sta. 145+50 to grade including: 1) remove the manhole frame and cover and the precast  
25 concrete vault cover; and cast-in-place thinner replacement vault cover, and 2) remove the manhole  
26 frame and cover and the precast concrete vault cover, horizontally cut the existing precast concrete  
27 vault walls to reduce the height of the vault, and reseal the existing precast vault cover in place.  
28

1 ENGINEER to coordinate with SAWPA for approvals to modify the vault. ENGINEER to provide details  
2 to the COUNTY.

3 1.2.5 Finishing project – This task involves compiling all the project related data electronically and  
4 furnishing them to the COUNTY.

5 1.2.6 Miscellaneous Work as Directed by the COUNTY

6 This task involves performing miscellaneous support services for the PROJECT as specifically  
7 directed by the COUNTY PROJECT MANAGER. ENGINEER must obtain COUNTY PROJECT  
8 MANAGER approval prior to incurring expenses under this category.

9 **2. EXTRA WORK - WATER FACILITIES**

10 **2.1 PHASE II - PS&E**

11 2.1.1 City of Corona

12 ENGINEER to complete utility plans, details, specifications, and Engineer's Estimates to transfer water  
13 service connections from the City's water pipelines to the TVWD pipelines, and to design two above  
14 ground pressure regulating stations. Design activities will include:

- 15 • Attend coordination meetings with the City of Corona and the Temescal Valley Water District  
16 to review identified water service transfers and design requirements. ENGINEER to  
17 continue research with the City water department and field reviews to identify and locate  
18 water services to be transferred.
- 19 • Coordinate with the Doug Mays, the WATERLINE DESIGN ENGINEER, to set up the utility  
20 detail plan sheets and CADD files.
- 21 • Review water service transfer and pressure regulating station specifications, and coordinate  
22 bid items with the COUNTY.
- 23 • Coordinate shut down requirements.
- 24 • Provide assistance to answer bidders questions.
- 25 • Prepare bid addenda as requested by the COUNTY.
- 26 • Coordinate with the COUNTY to reconcile and summarize hours and costs for water agency  
27 design and coordination efforts.

28 2.1.2 Temescal Valley Water District

1 ENGINEER to complete utility plans, details, specifications, and Engineer's Estimates to transfer water  
2 service connections from the City's water pipelines to the TVWD pipelines, and to design two above  
3 ground pressure regulating stations. Design activities will include:

- 4 • Attend coordination meetings with the City of Corona and the Temescal Valley Water District  
5 to review identified water service transfers and design requirements. ENGINEER to  
6 continue research with the City water department and field reviews to identify and locate  
7 water services to be transferred.
- 8 • Coordinate with the Doug Mays, the WATERLINE DESIGN ENGINEER, to set up the utility  
9 detail plan sheets and CADD files.
- 10 • Review water service transfer and pressure regulating station specifications, and coordinate  
11 bid items with the COUNTY.
- 12 • Coordinate shut down requirements.
- 13 • Provide assistance to answer bidders questions.
- 14 • Prepare bid addenda as requested by the COUNTY.
- 15 • Coordinate with the COUNTY to reconcile and summarize hours and costs for water agency  
16 design and coordination efforts.

17 **2.2 PHASE III - BID & CONSTRUCTION SUPPORT**

18 2.2.1 City of Corona

19 ENGINEER to provide construction phase engineering support for the City of Corona's waterline  
20 facilities in the Dos Lagos Segment including:

- 21 • Review and respond to City comments on the roadway and water service transfer and pressure  
22 regulating station plans as needed to obtain an Encroachment Permit from the City for widening  
23 Temescal Canyon Road within the City's jurisdiction.
- 24 • Review water meters, fire hydrants and other waterline facilities that need to be relocated for  
25 the new roadway construction, even though the waterline service transfers were deleted from  
26 the Construction contract.
- 27 • Complete waterline relocation designs, plans, specifications for a newly discovered conflict of  
28 the City's 18" waterline with storm drain Lateral C-1. COUNTY will provide survey data for the



existing 18" waterline. Coordinate with the City to define and refine the waterline design criteria. Consider the use of welded steel pipe for the waterline relocation in order to reduce the potential for leakage at the pipeline joints, simplify construction, and shorten the relocation time. Prepare preliminary pipeline relocation alignments and coordinate with Doug Mays, the WATERLINE DESIGN ENGINEER. Provide layouts and CADD files.

- Coordinate with the City and prepare construction details to relocate a 6" waterline and fire hydrant at the northeast corner of Foster Road and Temescal Canyon Road. Provide details to the City for review and comments, and make revisions as needed.
- Coordinate with the COUNTY to reconcile and summarize hours and costs for water agency construction support efforts.

**3. DEDUCT WORK**

**3.1 PHASE II - PS&E**

**3.1.1 FIBER OPTIC PLAN**

At COUNTY's direction, ENGINEER shall not prepare Fiber Optic Plans consisting of 5 – 22" x34" drawings at 1" = 40" scale showing conduit, pull box, vault installation and fiber assignment detail drawings.

**3.1.2 LEGAL DESCRIPTIONS AND PLAT MAPS**

At COUNTY's direction, ENGINEER shall not prepare 2 - 8.5"x 11" Legal Descriptions, Plat Maps, metes and bounds descriptions or strip descriptions for 21 locations, for a total of 42 legal descriptions and plats not being prepared.

Option deleted – LIN CONSULTING, INC. (Fiber Optic)	(11,972.00)
Option deleted - PSOMAS (Legals and Plats)	(50,646.76)

TOTALING (\$62,618.76)

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**AMENDMENT NO. 1 – APPENDIX 1B**  
**FEE PROPOSAL**

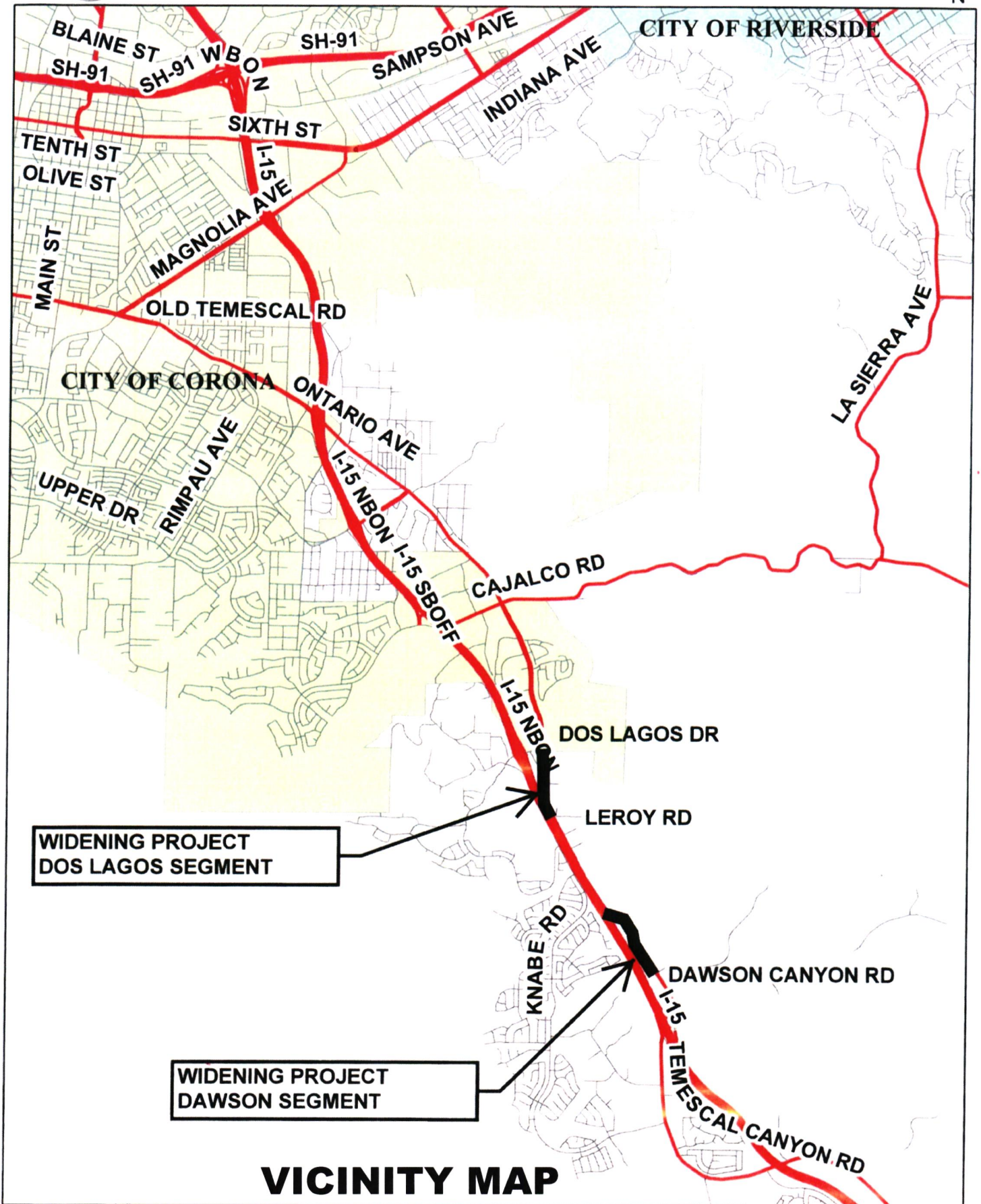
Amendment No. 1 -Temescal Canyon Road Widening - Dos Lagos Segment (C6-0066)

**NCM Engineering Corp - Temescal Canyon Road Widening Project**

Scope of work	Dos Lagos Segment C6-0066
<b>ORIGINAL CONTRACT</b>	
Board approved contract amount with all optional work	<u>754,317.59</u>
<b>EXTRA WORK</b>	
<b>PHASE II - PS&amp;E</b>	
1.1.1 Construction Staging Plans	36,459.28
1.1.2 Tree Surveys and Removal Plans	12,256.15
1.1.3 Pavement Structure Plans	1,114.26
1.1.4 Full Trash Capture Device Plans, Details And Specs	7,593.42
1.1.5 Reference Standard Plan Sheets	493.22
1.1.6 Right-of-Way Engineering Support (during negotiations)	1,094.74
1.1.7 Utility Activities - additional	6,698.52
1) Potholing contractor	
2) Potholing data processing	
3) Storm drain revisions to avoid utility conflicts	
4) Utility company coordination	
2.1.1 Water District work	
1) City of Corona	28,704.72
2) TVWD	13,450.50
<b>PHASE III - Bid &amp; Construction Support</b>	
1.2.1 As-Built Plan Preparation (additional revisions)	9,742.34
1.2.2 Onsite Engineering Design Support (private properties)	44,574.68
1) Rockefelleras - onsite concrete design, added stairs	
2) Ferraro - turnaround driveway design	
3) Vander Molen - useable area, fill calculations	
4) Nexstar - retaining wall design	
5) Mendoza - driveway	
6) Steele - driveway drains	
1.2.3 Utility Activities - unknown conflicts (SCE, AT&T, Gas)	72,177.21
1) RFIs - research, design and response	
2) Permit application reviews	
3) Field meetings	
4) Utility company coordination, scheduling and follow up	
1.2.4 Other construction support	21,077.78
1) Bi-weekly construction coordination meetings	
2) Form liner shop inspections	
3) Storm Drain Lateral C-1 Headwall	
4) Sportsman's Bar	
5) SCE Power Line Anchor at Sta. 168+60	
6) Buried Concrete Slab beneath the Existing AC Pavement	
7) Adjust SAWPA Manhole to Grade	
1.2.5 Finishing project	3,453.54
1.2.6 Miscellaneous Work as Directed by the County	115,000.00
2.2.1 Water District work	
1) City of Corona	11,891.98
<b>TOTAL EXTRA WORK</b>	<u><b>385,782.34</b></u>
<b>DEDUCT SERVICES</b>	
3.1.1 Fiber Optic Plan (Lin)	(11,972.00)
3.1.2 Legal Descriptions and Plat Maps (Psomas)	(50,646.76)
<b>TOTAL DEDUCT</b>	<u><b>(62,618.76)</b></u>
<b>ADJUSTED CONTRACT AMOUNT</b>	
Net adjusted budget under contract Amendment No. 1	<u><b>1,077,481.17</b></u>



# TEMESCAL CANYON WIDENING PROJECTS DAWSON AND DOS LAGOS SEGMENTS



WIDENING PROJECT  
DOS LAGOS SEGMENT

WIDENING PROJECT  
DAWSON SEGMENT

## VICINITY MAP