



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100

JAMES A. NOYES, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

March 26, 2002

IN REPLY PLEASE
REFER TO FILE: **C-1**

The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, CA 90012

Dear Supervisors:

CHANGES IN WORK FOR PUBLIC WORKS CONTRACTS SUPERVISORIAL DISTRICTS 1, 3, 4, AND 5 3 VOTES

IT IS RECOMMENDED THAT YOUR BOARD:

Find that the requested changes in work have no significant effect on the environment and approve the changes for the following construction contracts:

Project ID No. APT5070879 - Whiteman Airport Sanitary Sewer, vicinity of Pacoima (3), Zondiros Corporation, in amount of \$154,685.48.

Project ID No. FCC0000307 - Vernon Channel - Fieldbrook Debris Basis, unincorporated territory of Rowland Heights (4), K.A.S. Equipment & Rental, Inc., in amount of \$44,120.

Project ID No. FCC0000623 - Live Oak Springs Canyon Drain, Unit 2, City of Santa Clarita (5), Mike Bubalo Construction Co., in amount of \$16,429.20.

Project ID No. FCC0000757 - Temple Avenue Drain, Sunkist Avenue Drain, and Amar Road and Drain, vicinity of La Puente (1), Steve Bubalo Construction Co., Inc., in amount of \$103,541.73.

Project ID No. RDC0011005 - Magic Mountain Parkway, City of Santa Clarita (5), Granite Construction Company, in amount of \$66,895.

The Honorable Board of Supervisors
March 26, 2002
Page 2

Project ID No. RDC0011448 - City Terrace Dr., vicinities of City Terrace and Boyle Heights (1), Madison Paving, Inc., in amount of \$25,700.

Project ID No. RMD1967021 - Rockvale Ave., et al., vicinities of Azusa and West Covina (1 and 5), Gentry Brothers, Inc., in amount of \$27,100.

Project ID No. WWD4000001 - Water Tank Seismic Retrofit HMGP-1008-3157 Group IV, vicinities of Acton, Lancaster, and Lake Los Angeles (5), A. A. Portanova & Sons, Inc., in amount of \$15,860.

Pacoima Dam Facilities Improvements, vicinity of Sylmar (5), Ladd and Associates, in amount of \$302,500.

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

This action is to obtain Board approval for changes in public works contracts in support of the timely completion of the projects while avoiding delays and the potential for claims. The descriptions of the changes, estimated costs, and necessary time extensions are listed in the enclosure for each contract.

The Director of Public Works has been authorized by your Board to order changes in work up to \$10,000 for construction contracts. Enclosed for your authorization are changes in work in excess of my delegated limits which are required to complete Project ID Nos. APT5070879, FCC0000307, FCC0000623, FCC0000757, RDC0011005, RDC0011448, RMD1967021, and WWD4000001; and Pacoima Dam Facilities Improvements.

Implementation of Strategic Plan Goals

Approval of these changes in work, which are necessary to satisfactorily complete the projects, is consistent with the County Strategic Plan Goal of Service Excellence since the improved infrastructure will better serve the public.

FISCAL IMPACT/FINANCING

The estimated change order amounts for these contracts range from \$15,860.00 to \$302,500.00.

If these changes in work are not approved, contract completion will be delayed and increased costs incurred.

Sufficient funds are available in the Board-approved appropriations for each of the respective projects to cover the costs of the requested changes. Detailed cost breakdowns for each of the changes, together with contract cost summaries, are included in the enclosures.

FACTS AND PROVISIONS/LEGAL REQUIREMENTS

Each of the subject contracts for the construction of public works improvements was awarded by your Board to the lowest responsible bidder in accordance with the California Public Contract Code, your Board's directives, and as recommended by the Director of Public Works.

ENVIRONMENTAL DOCUMENTATION

The changes in work as described above and in the enclosures are within the limits of the Board-approved projects and do not change any conditions which resulted in the original environmental findings.

CONTRACTING PROCESS

Each contract provides that the contractor be compensated for changes in the work as a result of changes to the original plans and specifications or changed conditions encountered during the course of construction. The costs of each of the changes are based on contract unit prices, time and materials methods, or negotiated under the provisions of the contract specifications. The methods for arriving at the costs of the changes are included in the enclosures.

IMPACT ON CURRENT SERVICES (OR PROJECTS)

Approval of the requested changes by your Board will ensure the timely completion of work under each of the respective contracts and result in complete and usable facilities.

The Honorable Board of Supervisors
March 26, 2002
Page 4

CONCLUSION

Please return one approved copy of this letter to Public Works.

Respectfully submitted,

JAMES A. NOYES
Director of Public Works

RKM:pb

C:\TEMP\ciw.wpd

Enc. 9

cc: Chief Administrative Office
County Counsel
Office of Affirmative Action Compliance

CHANGE IN WORK (AUTHORIZE)

March 26, 2002

PROJECT ID NO. APT5070879, WHITEMAN AIRPORT SANITARY SEWER
(in the vicinity of Pacoima), Supervisorial District 3, Contractor: Zondiros Corporation

Project Description:

Construction of a sanitary sewer system.

Changes in Work:

(1) Variations in Bid Quantities	\$ 4,793.48
(2) Various Sewer Improvements	115,922.00
(3) Concrete and Rebar Removal and Disposal	6,500.00
(4) Utility Repair	7,000.00
(5) Delays Due to Utility Interference	14,250.00
(6) Grease Pit Modifications	2,500.00
(7) Slurry Backfill	5,000.00
(8) Exploratory Excavations	3,550.00
(9) Credit for Overtime Inspection	<u>(4,830.00)</u>
Total	<u>\$154,685.48</u>

Description of Changes:

(1) The original contract amount is based upon estimated quantities of the various bid items. The contractor is paid based upon actual quantities used. The increase in contract price reflects the net adjustment due to variations between estimated bid quantities and actual quantities.

(2) To meet the demands of the future expansion of Whiteman Airport, it will be necessary to extend the length of the sewer and provide additional connections. This work is not shown on the plans.

(3) During excavation, the contractor encountered buried concrete footings, reinforcing steel, and concrete blocks. It will be necessary to remove these obstructions prior to placing the sewerline. This work is not shown on the plans.

- (4) It will be necessary to compensate the contractor for repairing several unmarked utilities which were damaged during construction of the sanitary sewer. This work is not shown on the plans.
- (5) It will be necessary to compensate the contractor for delays caused by various underground utilities and a sewage leach field which interfered with the construction of the sanitary sewer. These facilities were not shown on the plans nor identified in the field.
- (6) In order to meet the intent of the design, it will be necessary to relocate the grease pit which is currently in use by the Whiteman Airport Restaurant. This work is not shown on the plans.
- (7) To comply with the City of Los Angeles sewer permit, slurry cement backfill must be used on all public streets. The contractor must be compensated for this extra work, which was not included on the plans.
- (8) To determine the exact location of the underground utilities impacted by the new sewerline construction, it will be necessary to perform exploratory excavations. This work is not shown on the plans.
- (9) The contractor requested 92 hours of overtime inspection, which will result in a credit to the contract in the amount shown.

The costs for Item 1 will be based on contract unit prices. A portion of the cost for Item 2 was negotiated as provided in Subsection 3-2 of the contract specifications. The remaining balance of the cost for Item 2, Items 3 through 7, and a portion of Item 8 will be based on time and materials methods as provided in Subsection 3-3 of the contract specifications. The remaining balances of the costs for Items 8 and 9 are stipulated in the contract specifications.

Forty-seven additional working days will be required because of these changes.

Revised Contract Amount:

Original contract amount	\$252,212.00
Changes in work to be authorized	<u>154,685.48</u>
Revised contract amount	<u>\$406,897.48</u>

LAT:pb

C:\TEMP\ciw.wpd

CHANGE IN WORK (AUTHORIZE)

March 26, 2002

PROJECT ID NO. FCC0000307, VERNON CHANNEL - FIELDBROOK DEBRIS BASIN

(in unincorporated territory of Rowland Heights), Supervisorial District 4,

Contractor: K.A.S. Equipment & Rental, Inc.

Project Description:

Enlargement of a debris basin, including construction of concrete walls, spillway structure, access ramp, and outlet tower.

Changes in Work:

(1) Delay in Placing Sheet Piles	\$ 9,500.00
(2) Remove Overpour	500.00
(3) Remove Rock in Debris Post Hole	800.00
(4) Reinstall Wrought Iron Fence	1,500.00
(5) Fasten Manhole Ring and Cover	500.00
(6) Delay Due to Incorrect Survey	3,500.00
(7) Extend RCB Outlet Wall	3,500.00
(8) Pave Ramp with Concrete in Lieu of Asphalt	8,700.00
(9) Replace Chainlink Fence With Ornamental Fence	<u>15,620.00</u>
Total	<u>\$44,120.00</u>

Description of Changes:

(1) Your Board previously approved a change in work for the delay associated with the additional exploratory potholing and realigning of the piles. The cost for this work will exceed the original estimate by the amount shown.

(2) In order to build the footing of the proposed masonry retaining wall on the east side of the spillway, it will be necessary to remove a concrete drainage facility which interferes with the construction.

(3) While drilling holes for the new debris posts, the contractor encountered rocks in two of the ten postholes. In order to reach the required depth, the contractor will have to chip and break the rocks. It will be necessary to compensate the contractor for the costs associated with this extra work.

(4) The project plans require removal of a section of the existing wrought iron fence and replacing it with metal handrailings. However, at the request of the adjacent property owner, the wrought iron fence will be reinstalled instead.

(5) A manhole ring for a manhole located on a slope must be grouted and bolted to properly secure it.

(6) Due to erroneous coordinates on the project plans, a retaining wall and curb were improperly staked when surveyed. As a result, the contractor incurred delay in the grading and forming operations. It will be necessary to compensate the contractor for the costs associated with this delay.

(7) Construction of an access road will require modification of a reinforced concrete box. This work is not shown on the plans.

(8) To provide more reliable access during inclement weather, it will be necessary to pave part of an access ramp with concrete rather than asphalt.

(9) Due to the high visibility of the project, it will be necessary to replace a proposed chainlink fence and gates with an ornamental fence and gates.

The costs for Items 1 through 6 will be based on time and materials methods as provided in Subsection 3-3 of the contract specifications. The costs for Items 7 through 9 were negotiated as provided in Subsection 3-2 of the contract specifications.

Twenty-one additional working days will be required because of these changes.

Revised Contract Amount:

Original contract amount	\$752,752.00
Changes in work previously approved by the Board	19,360.00
Changes in work to be authorized	<u>44,120.00</u>
Revised contract amount	<u>\$816,232.00</u>

LAT/SS:pb

C:\TEMP\ciw.wpd

CHANGE IN WORK (AUTHORIZE)
March 26, 2002

PROJECT ID NO. FCC0000623, LIVE OAK SPRINGS CANYON DRAIN, UNIT 2
(City of Santa Clarita), Supervisorial District 5,
Contractor: Mike Bubalo Construction Co.

Project Description:

Construction of reinforced concrete pipe and box storm drains and a debris basin.

Changes in Work:

(1) Delay Due to Utility Interference	\$ 8,320.37
(2) Construction Delay	4,358.83
(3) Exploratory Excavations	3,000.00
(4) 8" Brickwork Bulkhead	450.00
(5) Stop Bar Detail	<u>300.00</u>
Total	<u>\$16,429.20</u>

Description of Changes:

(1) It will be necessary to compensate the contractor for delays caused by interfering telephone ducts at the intersection of Live Oak Springs Canyon Road and Sand Canyon Road. The ducts are not shown on the plans.

(2) It will be necessary to compensate the contractor for the delays caused while the design of an inlet structure was revised to provide additional structural details.

(3) Your Board previously approved a change in work to perform exploratory excavations to determine the exact locations of underground utilities. The cost of this work will exceed the original estimate by the amount shown.

(4) An existing culvert under a golf cart path currently conveys storm and nuisance flows. Since the culvert will not be needed when the proposed storm drain is completed, it must be sealed with bulkheads at each end. This work was not shown on the plans.

(5) The City of Santa Clarita requested the painting of a stop bar on Live Oak Springs Canyon Road at Sand Canyon Road. It will be necessary to compensate the contractor for this additional work which was not shown on the plans. We will be reimbursed by the City for this work.

The costs for Items 1, 2, and 5 will be based on time and materials methods as provided in Subsection 3-3 of the contract specifications. The cost for Item 3 is stipulated in the contract specifications. The cost for Item 4 was negotiated as provided in Subsection 3-2 of the contract specifications.

No additional working days will be required because of these changes.

Revised Contract Amount:

Original contract amount	\$1,968,600.00
Changes in work previously approved by the Board	52,750.00
Changes in work to be authorized	<u>16,429.20</u>
Revised contract amount	<u>\$2,037,779.20</u>

HH:ssa

C:\TEMP\ciw.wpd

CHANGE IN WORK (AUTHORIZE)

March 26, 2002

PROJECT ID NO. FCC0000757, TEMPLE AVENUE DRAIN, SUNKIST AVENUE DRAIN, AND AMAR ROAD AND DRAIN (in the vicinity of La Puente),
Supervisorial District 1, Contractor: Steve Bubalo Construction Co., Inc.

Project Description:

Construction of reinforced concrete pipe storm drain systems on Temple Avenue, Sunkist Avenue, and Amar Road; and resurfacing and reconstruction of Amar Road.

Changes in Work:

(1) Variations in Bid Quantities	\$ 3,600.00
(2) Realign the Storm Drain	13,500.00
(3) Support Water Mains	3,000.00
(4) Blanket Protection for Sewer Connection	500.00
(5) Extend Limits of Asphalt	33,575.00
(6) Support for Telephone Conduits	2000.00
(7) Remove Culvert and Reconstruct Curb, Road, and Sidewalk	17,230.00
(8) Exploratory Excavations	600.00
(9) Adjust Storm Drain Alignment	13,694.98
(10) Manual Excavation	<u>15,841.75</u>
Total	<u>\$103,541.73</u>

Description of Changes:

(1) The original contract amount is based upon estimated quantities of the various bid items. The contractor is paid based upon actual quantities used. The increase in contract price reflects the net adjustment due to variations between estimated bid quantities and actual quantities.

(2) Due to varying field conditions, it will be necessary for the contractor to adjust the alignment of the storm drain in order to connect it to the existing storm drain system.

(3) It will be necessary to support two water mains that cross the storm drain trench and would be vulnerable to breakage without the support.

(4) Due to the close proximity of a sewer connection to the new storm drain, it will be necessary to construct a concrete blanket to protect the sewerline. This work is not shown on the plans.

(5) Your Board previously approved a change in work to remove and replace additional asphalt pavement and concrete curb and gutter to reconstruct 11 cross gutters to the proper grade. The cost for this work will exceed the original estimate by the amount shown.

(6) It will be necessary to support telephone conduits which cross the storm drain trench. These conduits are not shown on the plans.

(7) An existing culvert under the sidewalk is no longer needed and will be removed. This will also require reconstruction of curb, sidewalk, and adjacent pavement in the vicinity of the culvert.

(8) In order to verify the location of telephone conduits that were not shown on the plans, it will be necessary for the contractor to perform exploratory excavations.

(9) Due to an interfering waterline that was not shown on the plans, it will be necessary to adjust the alignment of the storm drain.

(10) Telephone conduits that were shown incorrectly on the plans interfere with the storm drain installation. It will be necessary for the contractor to manually dig around the conduits and backfill the trench with slurry.

The costs for Items 1 and 4 will be based on contract unit prices. The costs for Items 2 and 10 will be based on time and materials methods as provided in Subsection 3-3 of the contract specifications. The costs for Items 3 and 6 were negotiated as provided in Subsection 3-2 of the contract specifications. The costs for Items 5 and 7 will be partially paid based on contract unit prices and partially based on time and materials methods. The cost for Item 8 is stipulated in the contract specifications. The cost for Item 9 will be partially based on contract unit prices, partially based on time and materials methods, and partially negotiated.

Six additional working days will be required because of these changes.

Revised Contract Amount:

Original contract amount	\$2,979,000.00
Changes in work previously approved by the Board	105,767.00
Changes in work to be authorized	<u>103,541.73</u>
Revised contract amount	<u>\$3,188,308.73</u>

JE/JFG:en

C:\TEMP\ciw.wpd

CHANGE IN WORK (AUTHORIZE)
March 26, 2002

PROJECT ID NO. RDC0011005, MAGIC MOUNTAIN PARKWAY (City of Santa Clarita),
Supervisorial District 5, Contractor: Granite Construction Company

Project Description:

Widening and reconstruction of roadway pavement.

Changes in Work:

(1) Remove Existing Concrete	\$60,000.00
(2) Install Metal Beam Guardrail	15,315.00
(3) Remove Asphalt	<u>(8,420.00)</u>
Total	<u>\$66,895.00</u>

Description of Changes:

(1) While removing the existing asphalt along Magic Mountain Parkway, the contractor encountered a 7" thick concrete slab below the existing pavement. In order to construct the new pavement per the intent of the plans and specifications, it will be necessary to remove and dispose of the concrete. This work is not shown on the project plans.

(2) In order to meet Federal Highway and Safety Standards, it will be necessary to install additional metal beam guardrail on the north side of Magic Mountain Parkway. This work is not shown on the project plans.

(3) The project plans show the existing pavement on the south side of Magic Mountain Parkway to be 6" thick with 4" of base material. The existing pavement is actually 21" thick with no base material. Because of this changed condition, the contractor will be paid on a time and materials basis. Since the asphalt pavement can be recycled and reused on the project, a credit to the contract in the amount shown will be realized.

The cost for Item 1 and portions of the costs for Items 2 and 3 will be based on time and materials methods as provided in Subsection 3-3 of the contract specifications. The balance of the costs for Items 2 and 3 will be based on contract unit prices.

One additional working day will be required because of these changes.

Revised Contract Amount:

Original contract amount	\$1,565,355.00
Changes in work previously approved by the Board	37,000.00
Changes in work to be authorized	<u>66,895.00</u>
Revised contract amount	<u>\$1,669,250.00</u>

IA:rb

C:\TEMP\ciw.wpd

CHANGE IN WORK (AUTHORIZE)
March 26, 2002

PROJECT ID NO. RDC0011448, CITY TERRACE DRIVE (in the vicinities of City Terrace and Boyle Heights), Supervisorial District 1, Contractor: Madison Paving, Inc.

Project Description:

Installation of an irrigation system; planting of shrubs and trees; resurfacing of existing roadway pavement; reconstruction of medians, sidewalks, driveways, curbs, and gutters; construction of cross gutters, curb ramps, and bus pads; installation of a smart pedestrian crosswalk; and modification of traffic signals.

Changes in Work:

(1) Additional Traffic Signal Work	\$13,100.00
(2) Additional Striping	9,200.00
(3) LED Signs	<u>3,400.00</u>
Total	<u>\$25,700.00</u>

Description of Changes:

(1) Due to the construction of bulb-outs at the intersections of Pomeroy Street and Marengo Street at City Terrace Drive, portions of the traffic signal systems which control pedestrian movements must be modified. It will also be necessary to install a loop stub-out and a pull box at the intersection of Marengo Street and City Terrace Drive. This work is not shown on the plans.

(2) It will be necessary to place additional striping at the intersections of Alma Avenue, Pomeroy Street, Ramboz Drive, and Marengo Street at City Terrace Drive, where bulb-outs were constructed. This work is not shown on the plans.

(3) In order to enhance pedestrian safety at the intersection of Hicks Avenue and City Terrace Drive, a flashing pedestrian LED sign will be installed. This work is not shown on the plans.

The costs for Items 1 and 3 and a portion of the cost for Item 2 will be based on time and materials methods as provided in Subsection 3-3 of the contract specifications. A portion of the cost for Item 2 was negotiated as provided in Subsection 3-2 of the contract specifications. The remainder of the cost for Item 2 will be based on contract unit prices.

Nine additional working days will be required because of these changes.

Revised Contract Amount:

Original contract amount	\$1,009,940.72
Changes in work previously approved by the Board	269,454.27
Changes in work to be authorized	<u>25,700.00</u>
Revised contract amount	<u>\$1,305,094.99</u>

HH:ssa

C:\TEMP\ciw.wpd

CHANGE IN WORK (AUTHORIZE)
March 26, 2002

PROJECT ID NO. RMD1967021, ROCKVALE AVENUE, ET AL. (in the vicinities of Azusa and West Covina), Supervisorial Districts 1 and 5,
Contractor: Gentry Brothers, Inc.

Project Description:

Resurfacing of roadway pavement and reconstruction of cross gutter.

Changes in Work:

(1) Remove Excess Asphalt	\$15,000.00
(2) Variations in Bid Quantities	3,400.00
(3) Perform Weekend Work	<u>8,700.00</u>
Total	<u>\$27,100.00</u>

Description of Changes:

(1) In order to provide an acceptable cross-slope on the street, it will be necessary to remove asphalt placed during previous resurfacing projects. This work is not shown on the plans.

(2) The original contract amount is based upon estimated quantities of the various bid items. The contractor is paid based upon actual quantities used. The increase in the contract unit price reflects the net adjustment due to variations between estimated bid quantities and actual quantities.

(3) Removal and replacement of the existing cross gutters and pavement in front of Gladstone High School and Roxburgh Elementary school must be done when both schools are closed. It will be necessary to compensate the contractor for this weekend work.

The costs for Items 1 and 2 will be based on contract unit prices. The cost for Item 3 will be based on time and materials methods as provided in Subsection 3-3 of the contract specifications.

No additional working days will be required because of these changes.

Revised Contract Amount:

Original contract amount	\$1,930,770.00
Changes in work to be authorized	<u>27,100.00</u>
Revised contract amount	<u>\$1,957,870.00</u>

JE:en

C:\TEMP\ciw.wpd

CHANGE IN WORK (AUTHORIZE)
March 26, 2002

PROJECT ID NO. WWD4000001, WATER TANK SEISMIC RETROFIT
HMGP-1008-3157 GROUP IV (in the vicinities of Acton, Lancaster, and Lake Los Angeles), Supervisorial District 5, Contractor: A. A. Portanova & Sons, Inc.

Project Description:

Seismic retrofitting of 11 water tanks.

Changes in Work:

(1) Hand Excavation and Additional Fittings at City Ranch Site	\$15,000.00
(2) Hand Excavation and Additional Fittings at Fort Tejon Site	2,000.00
(3) Change Davit Arm	460.00
(4) Credit For Tank Transportation	(500.00)
(5) Delete Annular Space Caulking	<u>(1,100.00)</u>
Total	<u>\$15,860.00</u>

Description of Change:

(1) While excavating to construct the tank and the required pipes at the City Ranch site, the contractor encountered utilities that interfered with the work. In order to avoid damage to the utilities, it will be necessary to excavate manually and use modified fittings. It will be necessary to compensate the contractor for this additional work.

(2) Your Board previously approved a change in work to excavate manually around utilities and use additional fittings at the Fort Tejon site. The cost of this work will exceed the original estimate by the amount shown.

(3) The project plans call for a davit arm made from steel; however, the standard plans call for a stainless steel davit arm. It will be necessary to reimburse the contractor for the additional cost to fabricate a stainless steel davit arm.

(4) The project plans call for a temporary tank to be transported from the Division Street Yard to the Fox Field Tank site. However, the tank was transported by the contractor under a different contract, resulting in a credit to this contract in the amount shown.

(5) The project specifications call for the contractor to caulk the annular space between the tank's interior roof and the tank wall. However, prior to the start of construction, it was determined that caulking is not necessary. Therefore, this work was deleted from the contract, which will result in a credit to the contract in the amount shown.

The costs for Items 1 and 2 will be based on time and materials methods as provided in Subsection 3-3 of the contract specifications. The costs for Items 3 through 5 were negotiated as provided in Subsection 3-2 of the contract specifications.

Four additional working days will be required because of these changes.

Revised Contract Amount:

Original contract amount	\$481,840.00
Changes in work previously approved by the Board	20,000.00
Changes in work to be authorized	<u>15,860.00</u>
Revised contract amount	<u>\$517,700.00</u>

IA:ssa

C:\TEMP\ciw.wpd

CHANGE IN WORK (AUTHORIZE)
March 26, 2002

PACOIMA DAM FACILITIES IMPROVEMENTS (in the vicinity of Sylmar),
Supervisorial District 5, Contractor: Ladd and Associates

Project Description:

Construct dam control house and helistop, upgrade valve controls and electric and mechanical systems, and enlarge dam spillway.

Changes in Work:

(1) Variations in Bid Quantities - Rock Dowels	\$ 12,500.00
(2) Resurface Left Abutment Decking Area and Install Tendon Vault Covers	120,000.00
(3) Install Pathway Lighting System	<u>170,000.00</u>
Total	<u>\$302,500.00</u>

Description of Changes:

(1) The original contract amount is based upon estimated bid quantities of the various bid items. The contractor is paid based upon actual bid quantities used. The increase in the contract unit price reflects the net adjustment due to variations between estimated bid quantities and actual quantities.

(2) To prevent water from leaking into the vaults for the dam's anchor system and to rehabilitate a concrete deck which is in poor condition, it will be necessary to resurface the lower concrete deck area near the left abutment and install 17 new watertight tendon vault covers and frames. This work is not shown on the plans.

(3) For the safety of the dam operators and maintenance crews, it will be necessary to install a lighting system along the trail to the top of the dam. This work is shown on the plans.

The costs for Item 1 will be based on contract unit prices. The costs for Items 2 and 3 will be based on time and materials methods as provided in Subsection 3-3 of the contract specifications.

Twenty-two additional calendar days will be required because of these changes.

Revised Contract Amount:

Original contract amount	\$10,317,015.00
Changes in work previously approved by the Board	1,314,908.00
Changes in work to be authorized	<u>302,500.00</u>
Revised contract amount	<u>\$11,934,423.00</u>

ANU:rb

C:\TEMP\ciw.wpd