

# City of South Pasadena Agenda Report

*Richard D. Schneider, M.D., Mayor  
Mike Ten, Mayor Pro Tem  
Michael A. Cacciotti, Councilmember  
Philip C. Putnam, Councilmember  
David Sifuentes, Councilmember*

*Sally Kilby, City Clerk  
Victor Robinette, City Treasurer*

COUNCIL AGENDA: March 3, 2010  
TO: Honorable Mayor and City Council  
VIA: John Davidson, City Manager *JD*  
FROM: Matthew Sweeney, P.E., Public Works Director *MS*  
SUBJECT: **Approval of a Change Order to Excel Paving Company for  
the Hanscom Avenue/Peterson Drive Street Improvement  
Project**

## **Recommendation**

It is recommended that the City Council:

1. Approve a change order in the amount of \$167,000 to Excel Paving Company for the construction of a concrete retaining wall supported by caissons along Hanscom Avenue in lieu of a concrete block retaining wall; and
2. Authorize a budget transfer in the following amounts to account 101-9000-9203:  
\$20,000 101-9000-9280 Arroyo Slope Stabilization Project  
\$60,000 100-9000-9355 Oak Hill / Pinecrest Street Improvement Project, and
3. Authorize \$220,000 in budget appropriation from Congestion Relief Funds to account 230-9000-9203

## **Fiscal Impact**

The cost of additional work to construct a ten-foot high reinforced concrete retaining wall supported by ten-foot deep caissons is estimated at \$167,000. Including this proposed change order, the total amount of change orders to date on the project is \$317,000. At this late stage of construction, no other substantial change orders are anticipated, and a small cost savings is also anticipated from reductions in final quantities.

Because the subject change order amount exceeds ten percent of the original contract price, staff is seeking approval from the City Council for the cost of this change order. The funding for both the current change order, plus the previous change orders, is proposed to come from the following sources:

**AGENDA ITEM**

*Emergency  
Item*

Available Funds	Account #	Source
\$20,000	101-9000-9280	Arroyo Slope Stabilization Project surplus funds
\$60,000	101-9000-9355	Oak Hill / Pinecrest Street Improvements surplus funds
\$220,000	Fund 230 Fund Balance	Congestion Relief Funds (currently unbudgeted)

### **Commission Review and Recommendation**

This matter was not reviewed by any Commissions.

### **Background**

One of the components of the Hanscom Avenue/Peterson Drive improvements consists of the construction of retaining walls to accommodate widening of the roadway. The height of a retaining wall is dependent upon the elevation of the adjacent ground surface and the depth of the footing, which is dependent on the depth of the underlying competent soil. The depth of the competent soil typically is estimated during design and the exact depth is established in the field during excavation for the footings. The original contract included prices for retaining walls up to 6.0' in height.

All of the retaining walls for the project have already been constructed with the exception of an 80-foot long segment located just south of the intersection of Illinois Drive and Hanscom Avenue. The proposed wall will be constructed on the east side of Hanscom Avenue on the downhill side, between two existing homes.

During footing excavations on March 1, 2010, the contractor discovered that the native soil in this area is very loose fill. Excavated test pits verified that this loose fill extended further down than anticipated. The contractor and engineer determined that a six-foot high concrete block retaining wall will not work in this area. A ten-foot high reinforced concrete retaining wall, supported by nine ten-foot deep caissons will be required to provide a foundation for the additional roadway widening proposed in the area. Because the original bid did not include a unit price for such a wall, staff requested the general contractor, Excel Paving, to provide an estimated cost for the construction of the modified wall and associated improvements.

### **Analysis**

The conditions requiring the proposed change order were only discovered on March 1, 2010. In addition, the contractor will be forced to demobilize Thursday, March 4, 2010 if he cannot start on the retaining wall. If the contractor demobilizes and must remobilize to complete the retaining wall, additional costs will be incurred. Consequently, staff is requesting emergency consideration of this report..

Staff is presenting three options:

- 1) Approve the change order and construct the caissons as part of this project to maintain a minimum 20-foot wide roadway width as designed.
- 2) Not approve the change order and opt to improve the pavement, curb, and gutter, but to not widen the road. With this option, the existing street width would remain at 12-feet instead of the designed 20-foot width.
- 3) Not approve the change order and opt to construct only the minimal improvements described in number 2 above, and then construct the full improvements at a later date as a separate project. The cost to proceed with this option will be higher due to the administrative costs required to package and bid the stand-alone project. There also will be additional mobilization costs.

Excel has submitted an estimated cost of \$167,000 to perform the work on a time-and-material basis. Staff has analyzed the change order cost and has determined it to be reasonable. The time and material work will be monitored in the field for accuracy and applicability. Staff's recommendation is to move forward with the work (option 1).

**Legal Review**

The City Attorney has reviewed this item.

**Public Notification of Agenda Item**

This item was not publicly noticed due to its emergency nature arising after the posting of the City Council agenda.

**Attachments:**

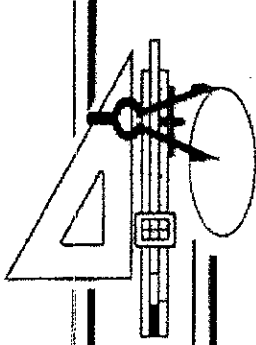
1. Estimated Change Order Costs from Excel Paving Company
2. Exhibits Showing the Proposed Retaining Wall Plan and Cross Sections

**ATTACHMENT 1**  
Estimated Change Order Costs from Excel Paving  
Company

# Excel Paving Company

PALP, Inc. dba Excel Paving Co. • General Engineering • Union Contractor  
 CA License # 688659 • Types: A, C-12, C-31  
 2230 Lemon Ave. • Long Beach • CA • 90806

Ph: (562) 599-5841 • FAX: (562) 591-7485



## Bid Closing Summary

Project Name: Calissons & PCC Wall At Stn 47+50  
 Job Number: 4679  
 Bid As: General Contractor  
 Estimator: Ken Coffy  
 Project Address:  
 Completion Date: 4/9/2010

Customer: City Of South Pasadena  
 Billing Address: 1414 Mission Street  
 South Pasadena, CA 91030 USA  
 Phone:  
 Contact: Sam Talebian

## Bid Cost Summary

	Calculated	Adds/Cuts	Target	Current
Direct Cost	\$140,483.21	\$0.00	\$140,483.21	\$140,483.21
Indirect Cost	\$3,600.00	\$0.00	\$3,600.00	\$3,600.00
Bond	\$1,001.08	\$0.00	\$1,001.08	\$1,001.08
<b>Total Cost</b>	<b>\$145,084.29</b>	<b>\$0.00</b>	<b>\$145,084.29</b>	<b>\$145,084.29</b>

## Markup and Price Summary

	Calculated	Adds/Cuts	Target	Current
Overhead	\$8,705.06	\$0.00	\$8,705.06	\$8,705.06
Profit	\$13,057.59	\$0.00	\$13,057.59	\$13,057.59
<b>Total Markup</b>	<b>\$21,762.64</b>	<b>\$0.00</b>	<b>\$21,762.64</b>	<b>\$21,762.65</b>
<b>Total Price</b>	<b>\$166,846.93</b>	<b>\$0.00</b>	<b>\$166,846.93</b>	<b>\$166,846.94</b>

## Bid Closing Summary

Current Bid Price: \$166,846.94 Target Bid Price: \$166,846.93 Difference: \$0.01 Bid Closing Status: Open Status Changed:

## Pay Items

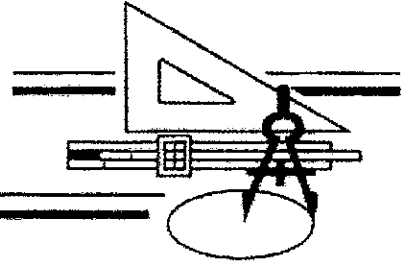
Description	Quantity	UM	Unit Cost	Total Cost	Unit Price	Total Price	MU%
Lock Type: (None)							
<input type="checkbox"/> 1 - Excavation	1.00	LS	\$35,924.42	\$35,924.42	\$41,313.09	\$41,313.09	15.00%
<input type="checkbox"/> 2 - Backfill	1.00	LS	\$9,528.17	\$9,528.17	\$10,957.39	\$10,957.39	15.00%
<input type="checkbox"/> 3 - Install 30" Calissons	9.00	EACH	\$3,378.79	\$30,409.13	\$3,885.61	\$34,970.49	15.00%
<input type="checkbox"/> 4 - Construct Retaining Wall Footing	1.00	LS	\$23,223.68	\$23,223.68	\$26,707.24	\$26,707.24	15.00%
<input type="checkbox"/> 5 - Construct Retaining Wall	1.00	LS	\$45,998.89	\$45,998.89	\$52,898.73	\$52,898.73	15.00%
<b>Totals for Lock Type (None):</b>			<b>\$145,084.29</b>	<b>\$166,846.94</b>			<b>15.00%</b>

Description	Quantity UM	Unit Cost	Total Cost	Unit Price	Total Price	MU%
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<b>Pay Items Total:</b>			\$145,084.29		\$166,846.94	15.00%
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# Excel Paving Company

PALP, Inc. dba Excel Paving Co. • General Engineering • Union Contractor  
 CA License # 688859 • Types: A, C-12, C-31  
 2230 Lemon Ave. • Long Beach • CA • 90806



Ph: (562) 599-5841 • FAX: (562) 591-7485

## Cost Detail

<b>Project Name:</b> Calssons & PCC Wall At Stn 47+50	<b>Customer:</b> City Of South Pasadena
<b>Job Number:</b> 4679	<b>Billing Address:</b> 1414 Mission Street
<b>Bid As:</b> General Contractor	South Pasadena, CA 91030
<b>Estimator:</b> Ken Corry	<b>Phone:</b>
<b>Project Address:</b>	<b>Contact:</b> Sam Talebian
<b>Completion Date:</b> 4/9/2010	

## Pay Items

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
<b>D) 1 - Excavation</b>	<b>1.00</b>	<b>LS</b>	<b>\$34,785.14</b>	<b>\$34,785.14</b>
D) Install Temp Shoring	1.00	LS	\$27,329.94	\$27,329.94
D) Labor & Equipment	1.00	CY	\$14,800.80	\$14,800.80
Install Temp Shoring Beams (0.33 LS/DY, 3.00 DY)	1.00	LS	\$14,800.80	\$14,800.80
KC - 3/2/2010 9:51 AM: Temp shoring along existing edge will be required for safety and working space. Install 10 each beams for shoring Crew x 2 days to install and 1 day to remove Total - Crew x 3 days				
Drill Rig	24.00	HR	\$225.00	\$5,400.00
Skiploader	24.00	HR	\$56.00	\$1,344.00
Truck Super 10	24.00	HR	\$77.00	\$1,848.00
Foreman	24.00	HR	\$83.80	\$2,011.20
Operating Engineer	24.00	HR	\$70.10	\$1,682.40
General Laborer [2]	24.00	HR	\$52.40	\$2,515.20
D) Material	1.00	LS	\$12,529.14	\$12,529.14
KC - 3/2/2010 9:55 AM: Use 14 x 120 beams x 30 lf long Total weight is 36,000 lbs Rent is \$0.07/lb for the first month and \$0.035 per month after We will have beams for 2 months so cost is \$0.105/lb Transport is \$450.00 each way = \$900.00 = \$0.025/lb Total for beams is \$0.130/lb				
Sand	157.50	TON	\$16.46	\$2,592.84
Steel Plates (8' X 20')	10.00	EACH	\$480.00	\$4,800.00
Steel Beams	36,000.00	LB	\$0.14	\$5,136.30
D) Structure Excavation	105.00	CY	\$71.00	\$7,455.20
D) Labor & Equipment	105.00	CY	\$71.00	\$7,455.20
Load Dirt Crew - Backhoe (52.50 CY/DY, 2.00 DY)	105.00	CY	\$62.43	\$6,555.20
Backhoe Cat 446	16.00	HR	\$74.00	\$1,184.00
Truck Super 10	16.00	HR	\$77.00	\$1,232.00
Foreman	16.00	HR	\$83.80	\$1,340.80
Operating Engineer	16.00	HR	\$70.10	\$1,121.60

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
<i>(Item 1 - Excavation continued)</i>				
General Laborer [2]	16.00	HR	\$52.40	\$1,676.80
Dump Fee - Dirt	12.00	LOAD	\$75.00	\$900.00
<b>2 - Backfill</b>	<b>1.00</b>	<b>LS</b>	<b>\$9,226.00</b>	<b>\$9,226.00</b>
Structure Backfill	160.00	CY	\$57.66	\$9,226.00
Labor & Equipment	160.00	CY	\$41.20	\$6,592.00
Hand Work	160.00	CY	\$41.20	\$6,592.00
Backfill Structure Crew - Hand (80.00 CY/DY, 2.00 DY)	160.00	CY	\$41.20	\$6,592.00
Roller Vibratory Walk Behind	16.00	HR	\$15.20	\$243.20
Wacker	16.00	HR	\$12.00	\$192.00
Skiploader	16.00	HR	\$56.00	\$896.00
Foreman	16.00	HR	\$83.80	\$1,340.80
Operating Engineer	16.00	HR	\$70.10	\$1,121.60
General Laborer [2]	16.00	HR	\$52.40	\$1,676.80
Operating Engineer	16.00	HR	\$70.10	\$1,121.60
Materials	160.00	CY	\$16.46	\$2,634.00
Structure Backfill SE 20	16.00	LOAD	\$164.63	\$2,634.00
<b>3 - Install 30" Caissons</b>	<b>9.00</b>	<b>EACH</b>	<b>\$3,271.64</b>	<b>\$29,444.76</b>
Install 9 Each 30" Diam Caissons	9.00	EACH	\$2,621.64	\$23,594.76
Labor & Equipment	9.00	EACH	\$2,044.53	\$18,400.80
Install Caissons (3.00 EACH/DY, 3.00 DY)	9.00	EACH	\$2,044.53	\$18,400.80
KC - 3/2/2010 9:47 AM: Owing to size and spacing of caissons we will only be able to get 3 per day Crew x 3 days				
Drill Rig	24.00	HR	\$225.00	\$5,400.00
Skiploader	24.00	HR	\$56.00	\$1,344.00
Truck Super 10	24.00	HR	\$77.00	\$1,848.00
Foreman	24.00	HR	\$83.80	\$2,011.20
Operating Engineer	24.00	HR	\$70.10	\$1,682.40
General Laborer [2]	24.00	HR	\$52.40	\$2,515.20
Concrete Pump - 28 Meter	24.00	HR	\$150.00	\$3,600.00
Material	9.00	EACH	\$577.11	\$5,193.96
Minor Structures Concrete	33.75	CY	\$90.00	\$3,037.33
Lumber	9.00	LS	\$82.31	\$740.81
Miscellaneous Materials - Each	9.00	EACH	\$82.31	\$740.81
Dump Fee - Solids	9.00	LOAD	\$75.00	\$675.00
Rebar Subcontractor	9.00	EACH	\$650.00	\$5,850.00
<b>4 - Construct Retaining Wall Footing</b>	<b>1.00</b>	<b>LS</b>	<b>\$22,487.19</b>	<b>\$22,487.19</b>
Construct Retaining Wall Footing	1.00	LS	\$15,987.19	\$15,987.19
Labor & Equipment	1.00	LS	\$12,338.00	\$12,338.00
Form, Pour & Strip Footing (0.20 LS/DY, 5.00 DY)	1.00	LS	\$12,338.00	\$12,338.00
KC - 3/2/2010 9:21 AM: Form footing for concrete - Crew x 3 days Pour footing - 1 day strip, clean, etc... - 1 day Total - Crew x 5 days				
Foreman	40.00	HR	\$83.80	\$3,352.00
General Laborer	40.00	HR	\$52.40	\$2,096.00
Carpenter [2]	40.00	HR	\$58.00	\$4,640.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
<b>(Item 4 - Construct Retaining Wall Footing continued)</b>				
Forklift 8000 Lbs	5.00	DY	\$300.00	\$1,500.00
Concrete Pump - 28 Meter [0.125]	40.00	HR	\$150.00	\$750.00
Material	1.00	LS	\$3,649.19	\$3,649.19
Minor Structures Concrete	37.50	CY	\$90.00	\$3,374.81
Lumber	1.00	LS	\$274.38	\$274.38
Miscellaneous Materials - Each	0.00	EACH	\$0.00	\$0.00
Rebar Subcontractor	1.00	LS	\$6,500.00	\$6,500.00
<b>QJ 5 - Construct Retaining Wall</b>	<b>1.00</b>	<b>LS</b>	<b>\$44,540.12</b>	<b>\$44,540.12</b>
Construct Retaining Wall	1.00	LS	\$37,040.12	\$37,040.12
Labor & Equipment	1.00	LS	\$29,475.60	\$29,475.60
Sandblast Footing For Rebar (2.00 LS/DY, 0.50 DY)	1.00	LS	\$607.60	\$607.60
Compressor With Attachments	4.00	HR	\$15.70	\$62.80
Foreman	4.00	HR	\$83.80	\$335.20
General Laborer	4.00	HR	\$52.40	\$209.60
Form, Pour & Strip Wall (0.10 LS/DY, 10.00 DY)	1.00	LS	\$28,868.00	\$28,868.00
<p> KC - 3/2/2010 7:04 AM:            Build wall forms - Crew x 2 days            Set panels for concrete - Crew x 3 days            Pour - 1 day            Strip - 2 days            Sack, patch &amp; clean - 1 day            Demob wall forms - 1 day            Total - Crew x 10 days</p> <p>KC - 3/2/2010 7:06 AM:</p>				
Foreman	80.00	HR	\$83.80	\$6,704.00
General Laborer [2]	80.00	HR	\$52.40	\$8,384.00
Concrete Pump - 28 Meter [0.125]	80.00	HR	\$150.00	\$1,500.00
Forklift 8000 Lbs	10.00	DY	\$300.00	\$3,000.00
Carpenter [2]	80.00	HR	\$58.00	\$9,280.00
Material	1.00	LS	\$7,564.52	\$7,564.52
Minor Structures Concrete	41.25	CY	\$90.00	\$3,712.29
Lumber 2" X 4"	1,200.00	BF	\$0.66	\$790.20
Lumber Plywood 5/8"	1,700.00	SF	\$1.32	\$2,238.90
Miscellaneous Materials - Each	10.00	EACH	\$82.31	\$823.13
Rebar Subcontractor	1.00	LS	\$7,500.00	\$7,500.00

### Indirect Items

Description	Quantity	UM	Unit Indirect Cost	Total Indirect Cost
<b>QJ 1014 - Superintendent - Tim Timble</b>	<b>5.00</b>	<b>DY</b>	<b>\$720.00</b>	<b>\$3,600.00</b>

### Direct Cost Totals

	Amount	Percent of Direct Cost
Labor:	\$56,818.40	40.44%
Equipment Owned:	\$5,074.00	3.61%
Equipment Rented:	\$26,270.00	18.70%
Materials Owned:	\$0.00	0.00%
Materials Purchased:	\$26,095.81	18.58%
Subcontracted:	\$19,850.00	14.13%
Trucking Owned:	\$0.00	0.00%
Trucking Hired:	\$0.00	0.00%
Miscellaneous:	\$6,375.00	4.54%
Plug:	\$0.00	0.00%
<b>Direct Cost:</b>	<b>\$140,483.21</b>	

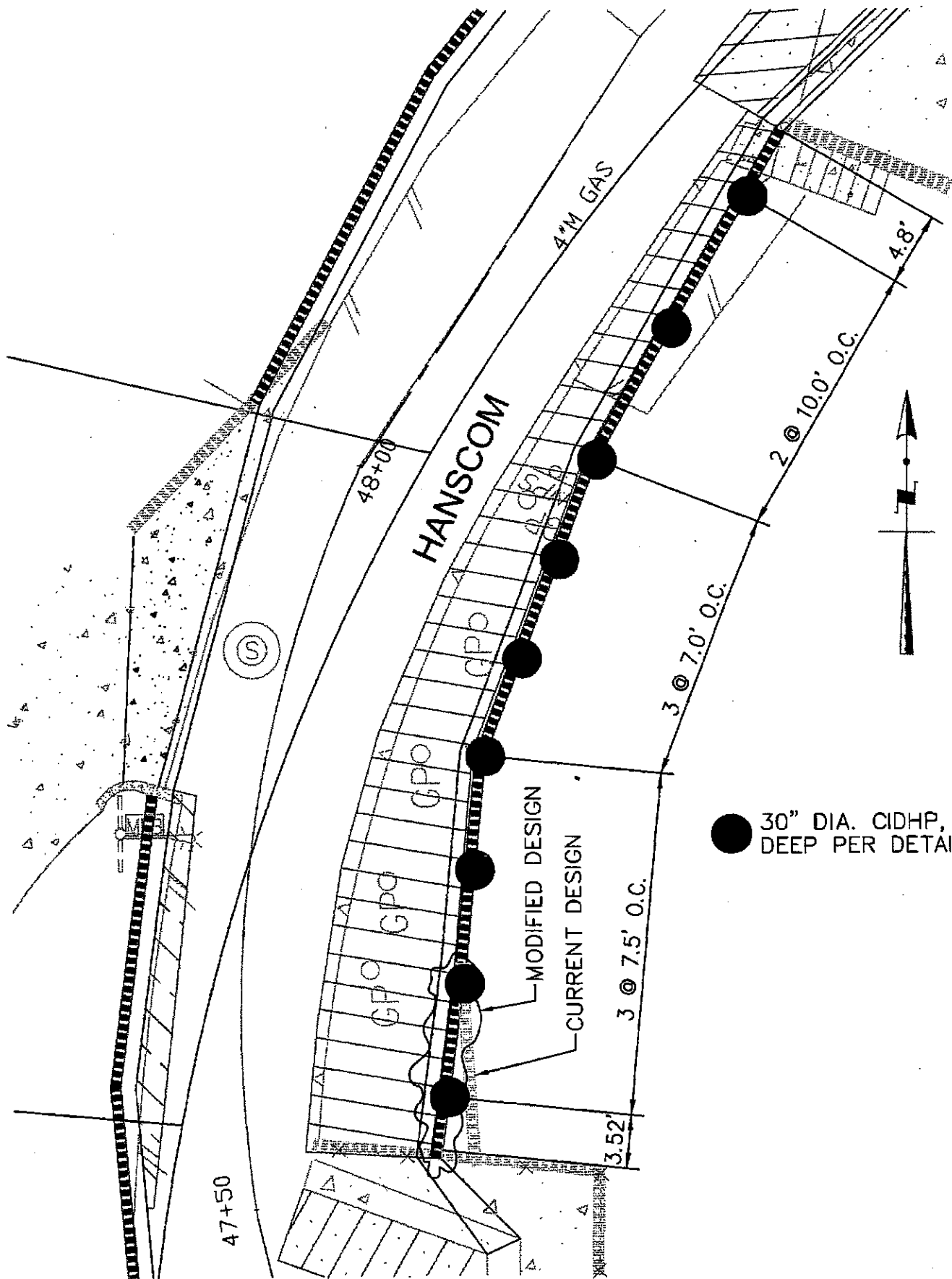
### Indirect Cost Totals

	Amount	Percent of Indirect Cost
Labor:	\$3,200.00	88.89%
Equipment Owned:	\$400.00	11.11%
Equipment Rented:	\$0.00	0.00%
Materials Owned:	\$0.00	0.00%
Materials Purchased:	\$0.00	0.00%
Subcontracted:	\$0.00	0.00%
Trucking Owned:	\$0.00	0.00%
Trucking Hired:	\$0.00	0.00%
Miscellaneous:	\$0.00	0.00%
Plug:	\$0.00	0.00%
<b>Indirect Cost:</b>	<b>\$3,600.00</b>	

### Pay Item Summary

	Amount	Percent of Takeoff Price
Total Direct Cost:	\$140,483.21	84.20%
Total DC Adds/Cuts:	\$0.00	0.00%
Total Indirect Cost:	\$3,600.00	2.16%
Total Bond:	\$1,001.08	0.60%
<b>Total Overall Cost:</b>	<b>\$145,084.29</b>	<b>86.96%</b>
Total Overhead:	\$8,705.06	5.22%
Total Profit:	\$13,057.59	7.83%
Total Margin:	\$21,762.65	13.04%
<b>Total Takeoff Price:</b>	<b>\$166,846.94</b>	

**ATTACHMENT 2**  
**Exhibits Showing the Proposed Retaining Wall and**  
**Caissons – Plan and Cross Sections**



● 30" DIA. CIDHP, 10' DEEP PER DETAIL

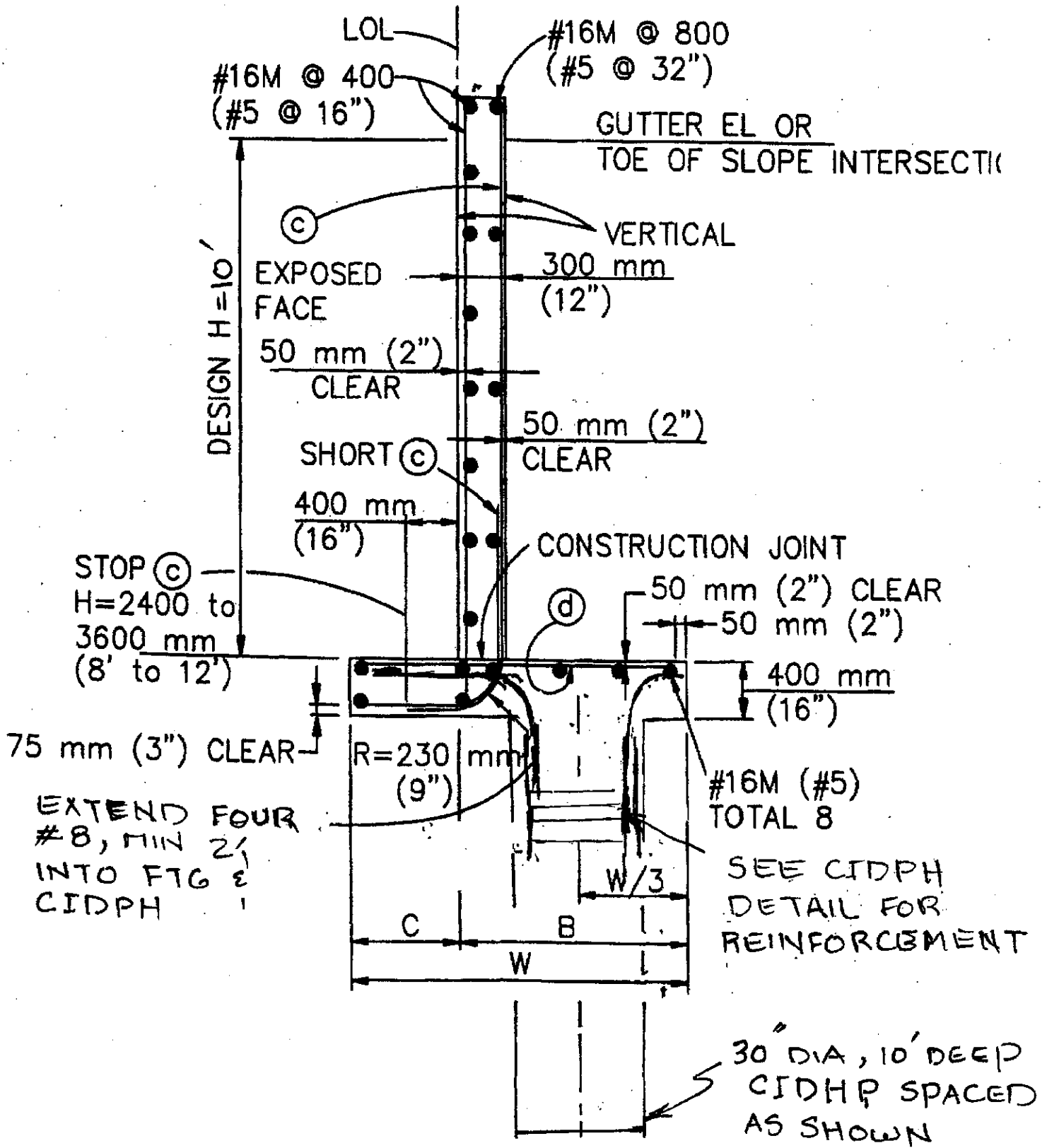
— MODIFIED DESIGN  
 — CURRENT DESIGN

3 @ 7.5' O.C.

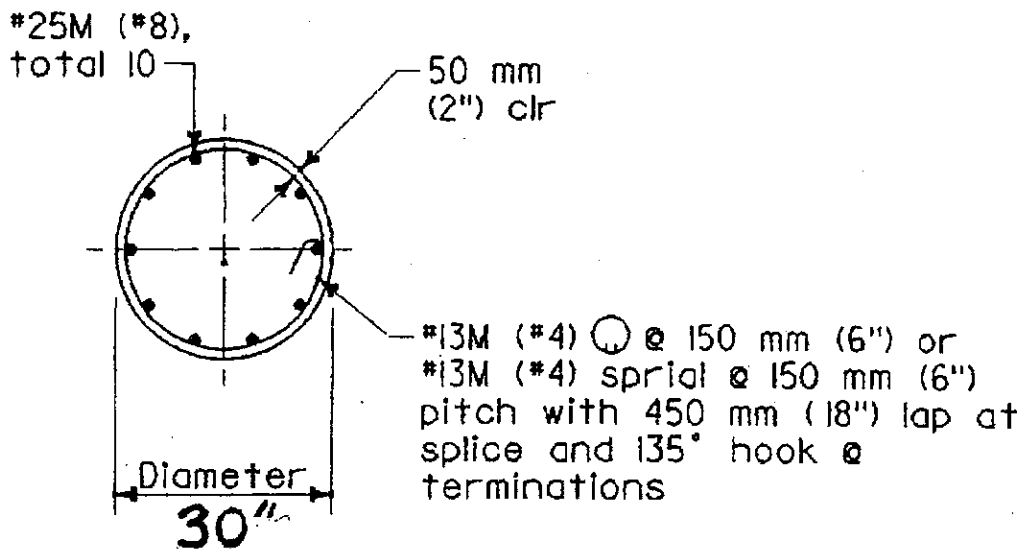
3 @ 7.0' O.C.

2 @ 10.0' O.C.

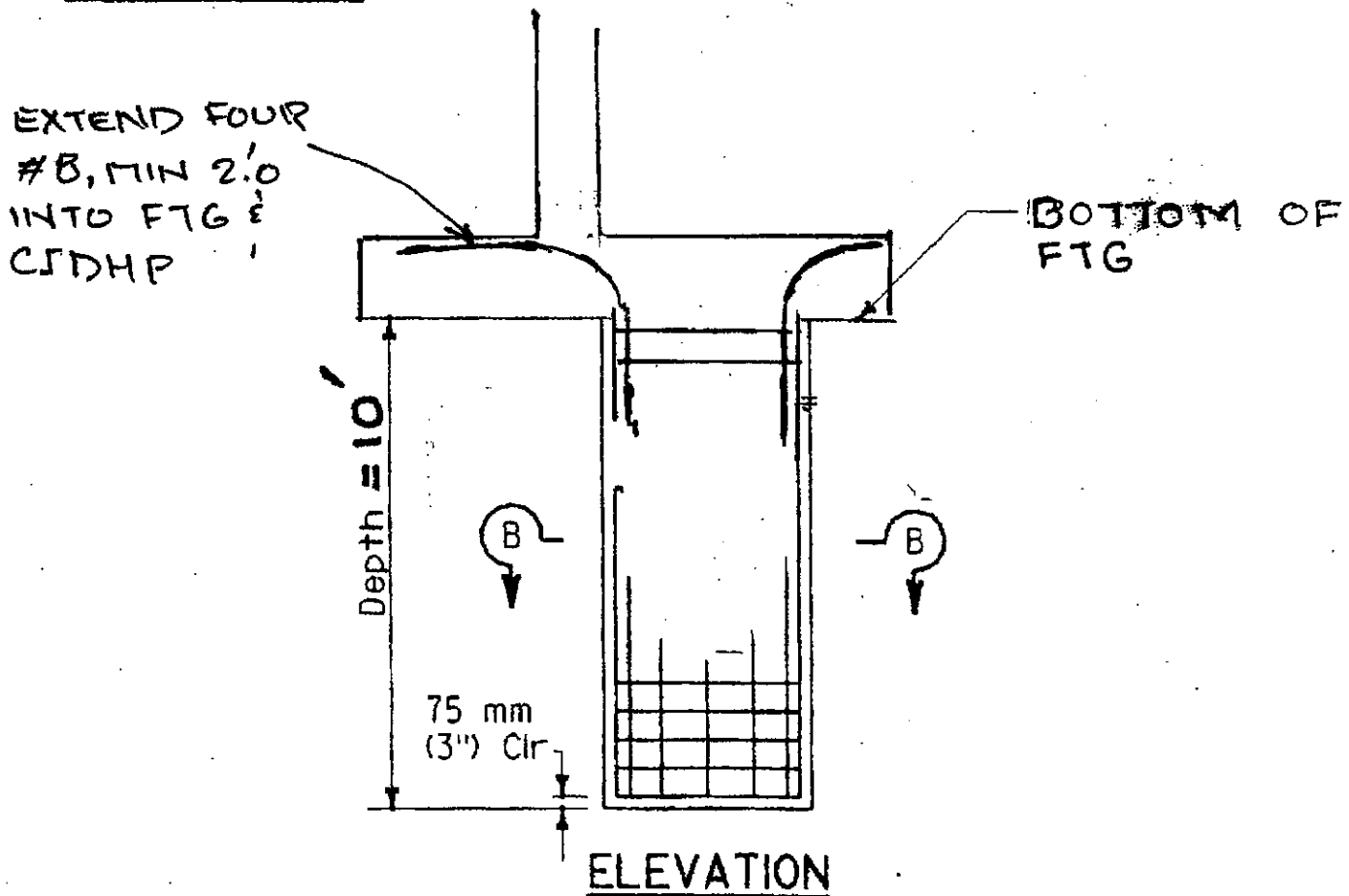




**MODIFIED**  
**REINFORCED CONCRETE**  
**RETAINING WALL TYPE 1 - 610-7.**



**SECTION B-B**



**CAST-IN-DRILLED HOLE PILE FOUNDATION**

Reinforced Pile

PER CALTRANS STD DWG ES-7N  
AS MODIFIED FOR DEPTH & HEIGHT