COUNTY OF RIVERSIDE

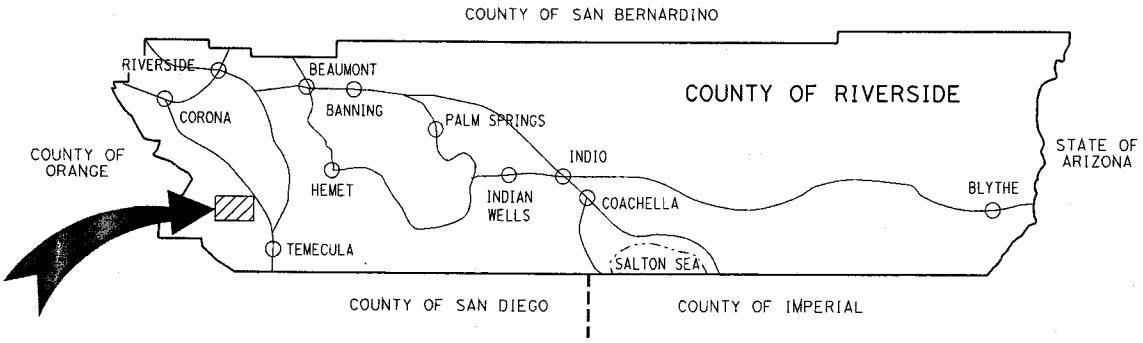
TRANSPORTATION DEPARTMENT

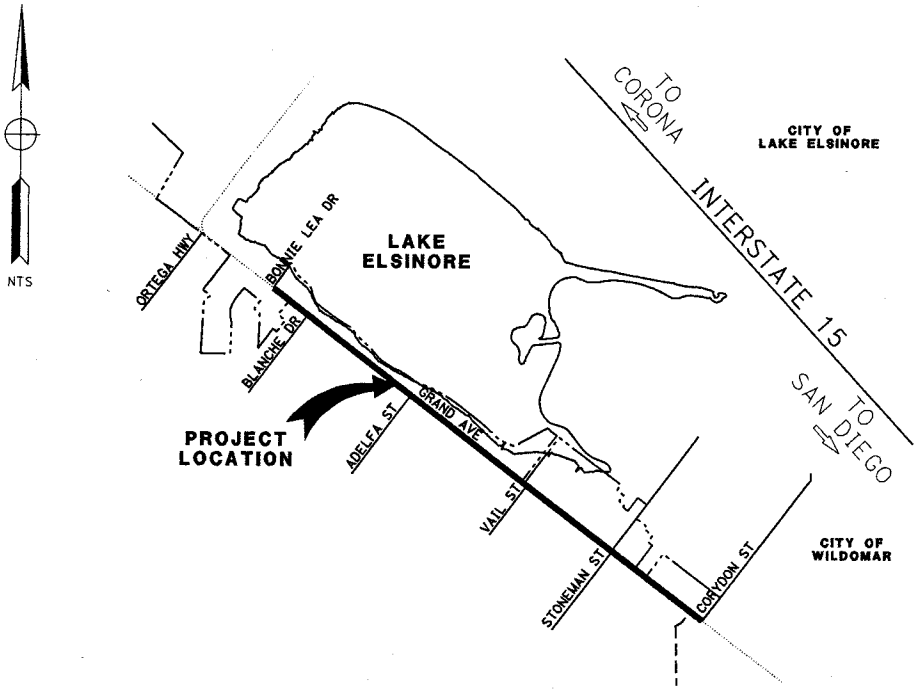
GRAND AVENUE

RESURFACING & WIDENING PROJECT
CORYDON STREET TO BONNIE LEA DRIVE

COMMUNITY OF LAKELAND VILLAGE

PROJECT No. C4-0074





VICINITY MAP

TOWNSHIP 6S RANGE 5W SECTION 13, 14, 24
TOWNSHIP 6S RANGE 4W SECTION 19, 20, 28, 29
COUNTY ROAD BOOK PAGE No. 40, 41, 42A, 72 76

Attachment "A"

Riverside County Transportation Department

CONSTRUCTION CONTRACT AWARD

Project: **GRAND AVE - LAKELAND VILLAGE : RESURFACING AND WIDENING PROJECT**

Project No.(s): **C4-0074**

Expenses as of: 3/17/2015

Project Costs and Budget

Activity		Incurred Costs	Projected Costs	Total Costs	Existing Budget	Proposed Budget
Preliminary Survey		69,014		70,000	10,000	70,000
Environmental		16,724		17,000	15,000	17,000
Design		527,235		528,000	230,000	528,000
Right-of-way						
Utilities						
Construction Contract			**4,523,019**			
Construction Contingency	5%		227,000	4,750,100	3,150,000	4,751,000
Construction Engineering & Inspection	20%	10,193	894,807	905,000	470,000	905,000
Construction Survey	4%	306	175,000	176,000	175,000	176,000
	Totals:	**623,472**	**5,819,826**	**6,446,100**	**4,050,000**	**6,447,000**

Project Funding

Code	Name	Existing Budget	Proposed Budget
332	Redevelopment Excess Bond Proceeds	5,300,000	5,300,000
713	City of Lake Elsinore		130,000
727	City of Wildomar		63,000
396	Elsinore Valley Municipal Water District		35,000
990	GTE (VERIZON)		13,000
990	TIME WARNER		2,000
990	LEVEL 3		2,000
221	Gas Tax / HUTA		902,000
	Totals	**5,300,000**	**6,447,000**

Comments

FUNDING AGREEMENTS WITH CITY OF LAKE ELSINORE, CITY OF WILDOMAR AND UTILITIES ARE PROVIDED.

CITY OF LAKE ELSINORE AND CITY OF WILDOMAR BUDGET INCLUDES 5% FOR CONSTRUCTION CONTINGENCY, 11% FOR CONSTRUCTION ENGINEERING & INSPECTION AND 4% FOR CONSTRUCTION SURVEY.

Printed: March 25, 2015 BY: Michael O. Mueting

Riverside County Transportation Department
Summary of Bids

PROJECT:
Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

	Company Name	Base Bid Subtotal	Alternate Bid Schedule 1 Subtotal	Alternate Bid Schedule 2 Subtotal	Alternate Bid Schedule 3 Subtotal	Total
	COUNTY'S ESTIMATE	3,999,880.00	131,390.00	74,700.00	105,000.00	**$4,310,970.00**
1	**Griffith Company**	4,310,488.52	107,578.50	52,452.00	52,500.00	**$4,523,019.02**
2	**All American Asphalt**	4,344,602.00	135,577.00	93,400.00	68,250.00	**$4,641,829.00**
3	**R. J. Noble Company**	4,385,594.00	130,540.90	98,968.80	49,875.00	**$4,664,978.70**
4	**Hardy & Harper**	4,646,519.50	135,815.50	87,290.00	79,375.00	**$4,949,000.00**
5	**Pyramid Construction**	4,783,806.55	187,115.00	95,100.00	105,000.00	**$5,171,021.55**
6	**Excel Paving Company**	5,002,343.00	144,240.00	72,090.00	109,830.00	**$5,328,503.00**
	Average Bid Prices	***$4,578,892.26***	***$140,144.48***	***$83,216.80***	***$77,471.67***	***$4,879,725.21***

Riverside County Transportation Department
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Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

Base Bid					COUNTY'S ESTIMATE		1 Griffith Company Montclair, CA 91762	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	UNIT PRICE	ENG ESTIMATE	BID UNIT PRICE	BID ESTIMATE
1	066102	DUST ABATEMENT	LS	1	15,000.00	15,000.00	40,000.00	40,000.00
2	074020	WATER POLLUTION CONTROL	LS	1	25,000.00	25,000.00	20,000.00	20,000.00
3	120100	TRAFFIC CONTROL SYSTEM	LS	1	80,000.00	80,000.00	88,753.52	88,753.52
4	160101	CLEARING AND GRUBBING	LS	1	25,000.00	25,000.00	25,000.00	25,000.00
5	220101	FINISHING ROADWAY	LS	1	18,000.00	18,000.00	10,000.00	10,000.00
6	015602	FUNDING AWARENESS SIGN	EA	2	1,500.00	3,000.00	1,000.00	2,000.00
7	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4	2,500.00	10,000.00	2,950.00	11,800.00
8	066237	REMOVE TREES	EA	11	1,000.00	11,000.00	1,000.00	11,000.00
9	160121	REMOVE TREE STUMP	EA	4	500.00	2,000.00	450.00	1,800.00
10	152438	ADJUST FRAME AND COVER TO GRADE	EA	1	1,290.00	1,290.00	1,000.00	1,000.00
11	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	97,700	1.80	175,860.00	2.40	234,480.00
12	011506	WEDGE PLANE ASPHALT CONCRETE	LF	12,100	2.00	24,200.00	0.15	1,815.00
13	190101	ROADWAY EXCAVATION	CY	3,220	40.00	128,800.00	20.00	64,400.00
14	190185	SHOULDER BACKING	LF	28,300	2.00	56,600.00	0.60	16,980.00
15	260201	CLASS 2 AGGREGATE BASE	CY	1,830	40.00	73,200.00	30.00	54,900.00
16	390130	HOT MIX ASPHALT	TON	18,290	64.00	1,170,560.00	65.00	1,188,850.00
17	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	14,660	67.00	982,220.00	88.00	1,290,080.00
18	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	TON	590	75.00	44,250.00	75.00	44,250.00
19	013903	PLACE ASPHALT CONCRETE DIKE (CRS 212) (6")	LF	1,600	15.00	24,000.00	8.00	12,800.00
20	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	LF	1,250	12.00	15,000.00	8.00	10,000.00
21	013902	ASPHALT CONCRETE OVERSIDE DRAIN (CRS 306)	EA	2	500.00	1,000.00	2,200.00	4,400.00
22	017304	MINOR CONCRETE (CURB AND GUTTER) (CRS 200)	LF	200	15.00	3,000.00	25.00	5,000.00
23	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	1,820	20.00	36,400.00	25.00	45,500.00
24	017310	MINOR CONCRETE (DRIVEWAY APPROACH) (CRS 207)	SQFT	2,400	8.00	19,200.00	6.00	14,400.00
25	017303	MINOR CONCRETE (SPANDREL) (CRS 209)	SQFT	4,800	10.00	48,000.00	11.00	52,800.00
26	017302	MINOR CONCRETE (CROSS-GUTTER) (CRS 209)	SQFT	520	10.00	5,200.00	11.00	5,720.00
27	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	7,200	15.00	108,000.00	8.00	57,600.00
28	731516	MINOR CONCRETE (DRIVEWAY)	SQFT	3,070	15.00	46,050.00	6.00	18,420.00
29	731521	MINOR CONCRETE (SIDEWALK)	SQFT	6,250	8.00	50,000.00	4.00	25,000.00
30	731501	MINOR CONCRETE (MONOLITHIC CURB)	LF	475	12.00	5,700.00	30.00	14,250.00
31	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	10	3,500.00	35,000.00	5,000.00	50,000.00
32	017316	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE B)	EA	12	3,000.00	36,000.00	5,000.00	60,000.00
33	731623	MINOR CONCRETE (CURB RAMP)	EA	8	2,500.00	20,000.00	4,000.00	32,000.00
34	017005	CATCH BASIN (COMBINATION INLET) (CRS 302)	EA	3	4,000.00	12,000.00	7,500.00	22,500.00
35	011503	UNDER SIDEWALK DRAIN CAST IN PLACE (CRS 309)	EA	1	2,000.00	2,000.00	5,200.00	5,200.00

Riverside County Transportation Department
Summary of Bids

PROJECT: Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

Base Bid (Continue)					COUNTY'S ESTIMATE		1 Griffith Company Montclair, CA 91762	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	UNIT PRICE	ENG ESTIMATE	BID UNIT PRICE	BID ESTIMATE
36	719530	CURB DRAIN	EA	3	500.00	1,500.00	1,300.00	3,900.00
37	650018	24" REINFORCED CONCRETE PIPE	LF	100	100.00	10,000.00	100.00	10,000.00
38	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	50	30.00	1,500.00	60.00	3,000.00
39	820151	OBJECT MARKER (TYPE L-1)	EA	54	100.00	5,400.00	40.00	2,160.00
40	151281	SALVAGE ROADSIDE SIGN	EA	54	150.00	8,100.00	30.00	1,620.00
41	000003	REPLACE WOOD POST WITH NEW STEEL POST	EA	28	250.00	7,000.00	150.00	4,200.00
42	566011	ROADSIDE SIGN - ONE POST	EA	176	250.00	44,000.00	200.00	35,200.00
43	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	4,700	5.00	23,500.00	3.00	14,100.00
44	840656	PAINT TRAFFIC STRIPE (2-COAT)	LF	68,000	0.75	51,000.00	0.25	17,000.00
45	597401	PAINT CURB RED (2-COAT)	LF	200	3.00	600.00	2.00	400.00
46	850102	PAVEMENT MARKER (REFLECTIVE)	EA	2,700	5.00	13,500.00	3.00	8,100.00
47	860811	DETECTOR LOOP	EA	38	500.00	19,000.00	300.00	11,400.00
48	010602	MISCELLANEOUS WORK (AS DIRECTED)	FA	1	380,000.00	380,000.00	380,000.00	380,000.00
48.1	511123	CONCRETE (RAPID SETTING)	CY	100	300.00	30,000.00	650.00	65,000.00
48.2	510501	MINOR CONCRETE [STAIRS, APWA 640-3, TYPE B]	SQFT	190	50.00	9,500.00	70.00	13,300.00
48.3	510501	MINOR CONCRETE [RAMP & LANDING, APWA 640-3, TYPE B]	SQFT	1,830	10.00	18,300.00	20.00	36,600.00
48.4	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=3', LEVEL]	LF	226	75.00	16,950.00	285.00	64,410.00
48.5	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 2, H=3', SLOPE]	LF	65	100.00	6,500.00	315.00	20,475.00
48.6	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=5', LEVEL]	LF	95	150.00	14,250.00	315.00	29,925.00
48.7	833000	METAL RAILING [APWA 606-3, TYPE A (TWO RAILS)]	LF	500	50.00	25,000.00	80.00	40,000.00
48.8	802520	6' CHAIN LINK GATE (TYPE CL-6)	LF	35	50.00	1,750.00	200.00	7,000.00
Base Bid Sub-Total Items 1-48.8						**3,999,880.00**		**4,310,488.52**

Alternate Bid Schedule 1 (City of Lake Elsinore)					COUNTY'S ESTIMATE		1 Griffith Company Montclair, CA 91762	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	UNIT PRICE	ENG ESTIMATE	BID UNIT PRICE	BID ESTIMATE
49	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	4,600	1.80	8,280.00	1.50	6,900.00
50	011506	WEDGE PLANE ASPHALT CONCRETE	LF	1,590	2.00	3,180.00	0.15	238.50
51	390130	HOT MIX ASPHALT	TON	790	64.00	50,560.00	50.00	39,500.00
52	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	690	67.00	46,230.00	60.00	41,400.00
53	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	107	20.00	2,140.00	20.00	2,140.00
54	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	6	3,500.00	21,000.00	2,900.00	17,400.00
Alt. Bid Sch. 1 Sub-Total Items 49-54						**131,390.00**		**107,578.50**

Riverside County Transportation Department
Summary of Bids

PROJECT: Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
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PROJECT No. C4-0074

Alternate Bid Schedule 2 (City of Wildomar)					COUNTY'S ESTIMATE		1 Griffith Company Montclair, CA 91762	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	UNIT PRICE	ENG ESTIMATE	BID UNIT PRICE	BID ESTIMATE
55	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	9,000	1.80	16,200.00	1.70	15,300.00
56	190101	ROADWAY EXCAVATION	CY	40	40.00	1,600.00	18.80	752.00
57	190185	SHOULDER BACKING	LF	620	2.00	1,240.00	5.00	3,100.00
58	260201	CLASS 2 AGGREGATE BASE	CY	20	40.00	800.00	80.00	1,600.00
59	390130	HOT MIX ASPHALT	TON	200	64.00	12,800.00	50.00	10,000.00
60	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	180	67.00	12,060.00	65.00	11,700.00
61	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	2,000	15.00	30,000.00	5.00	10,000.00
Alt. Bid Sch. 2 Sub-Total Items 55-61						**74,700.00**		**52,452.00**

Alternate Bid Schedule 3 (Utility Adjustments)					COUNTY'S ESTIMATE		1 Griffith Company Montclair, CA 91762	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	UNIT PRICE	ENG ESTIMATE	BID UNIT PRICE	BID ESTIMATE
62	152440	ADJUST MANHOLE TO GRADE (GTE/VERIZON)	EA	26	1,000.00	26,000.00	500.00	13,000.00
63	152440	ADJUST MANHOLE TO GRADE (TIME WARNER TELECOM)	EA	4	1,000.00	4,000.00	500.00	2,000.00
64	152440	ADJUST MANHOLE TO GRADE (LEVEL 3)	EA	4	1,000.00	4,000.00	500.00	2,000.00
65	152440	ADJUST MANHOLE TO GRADE (SEWER)	EA	71	1,000.00	71,000.00	500.00	35,500.00
Alt. Bid Sch. 3 Sub-Total Items 62-65						**105,000.00**		**52,500.00**

Project Total Items 1-65	**4,310,970.00**	**4,523,019.02**

Riverside County Transportation Department
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PROJECT No. C4-0074

Base Bid					2 All American Asphalt Corona, CA 92878		3 R. J. Noble Company Orange, CA 92856	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
1	066102	DUST ABATEMENT	LS	1	10,400.00	10,400.00	35,000.00	35,000.00
2	074020	WATER POLLUTION CONTROL	LS	1	33,200.00	33,200.00	25,000.00	25,000.00
3	120100	TRAFFIC CONTROL SYSTEM	LS	1	153,000.00	153,000.00	155,000.00	155,000.00
4	160101	CLEARING AND GRUBBING	LS	1	9,100.00	9,100.00	35,000.00	35,000.00
5	220101	FINISHING ROADWAY	LS	1	15,280.00	15,280.00	35,000.00	35,000.00
6	015602	FUNDING AWARENESS SIGN	EA	2	3,200.00	6,400.00	884.00	1,768.00
7	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4	3,700.00	14,800.00	3,650.00	14,600.00
8	066237	REMOVE TREES	EA	11	510.00	5,610.00	885.00	9,735.00
9	160121	REMOVE TREE STUMP	EA	4	310.00	1,240.00	405.00	1,620.00
10	152438	ADJUST FRAME AND COVER TO GRADE	EA	1	1,500.00	1,500.00	650.00	650.00
11	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	97,700	1.20	117,240.00	1.55	151,435.00
12	011506	WEDGE PLANE ASPHALT CONCRETE	LF	12,100	1.16	14,036.00	1.30	15,730.00
13	190101	ROADWAY EXCAVATION	CY	3,220	71.70	230,874.00	45.00	144,900.00
14	190185	SHOULDER BACKING	LF	28,300	2.25	63,675.00	1.39	39,337.00
15	260201	CLASS 2 AGGREGATE BASE	CY	1,830	40.00	73,200.00	64.35	117,760.50
16	390130	HOT MIX ASPHALT	TON	18,290	60.00	1,097,400.00	61.00	1,115,690.00
17	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	14,660	74.30	1,089,238.00	71.50	1,048,190.00
18	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	TON	590	157.00	92,630.00	152.00	89,680.00
19	013903	PLACE ASPHALT CONCRETE DIKE (CRS 212) (6")	LF	1,600	5.10	8,160.00	2.50	4,000.00
20	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	LF	1,250	5.10	6,375.00	3.30	4,125.00
21	013902	ASPHALT CONCRETE OVERSIDE DRAIN (CRS 306)	EA	2	2,300.00	4,600.00	1,060.00	2,120.00
22	017304	MINOR CONCRETE (CURB AND GUTTER) (CRS 200)	LF	200	52.00	10,400.00	40.50	8,100.00
23	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	1,820	54.00	98,280.00	42.20	76,804.00
24	017310	MINOR CONCRETE (DRIVEWAY APPROACH) (CRS 207)	SQFT	2,400	11.00	26,400.00	11.25	27,000.00
25	017303	MINOR CONCRETE (SPANDREL) (CRS 209)	SQFT	4,800	17.00	81,600.00	18.25	87,600.00
26	017302	MINOR CONCRETE (CROSS-GUTTER) (CRS 209)	SQFT	520	18.00	9,360.00	19.95	10,374.00
27	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	7,200	20.00	144,000.00	24.00	172,800.00
28	731516	MINOR CONCRETE (DRIVEWAY)	SQFT	3,070	11.00	33,770.00	11.20	34,384.00
29	731521	MINOR CONCRETE (SIDEWALK)	SQFT	6,250	7.50	46,875.00	6.70	41,875.00
30	731501	MINOR CONCRETE (MONOLITHIC CURB)	LF	475	24.00	11,400.00	49.00	23,275.00
31	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	10	3,000.00	30,000.00	3,030.00	30,300.00
32	017316	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE B)	EA	12	3,000.00	36,000.00	3,075.00	36,900.00
33	731623	MINOR CONCRETE (CURB RAMP)	EA	8	3,000.00	24,000.00	1,975.00	15,800.00
34	017005	CATCH BASIN (COMBINATION INLET) (CRS 302)	EA	3	10,100.00	30,300.00	9,165.00	27,495.00
35	011503	UNDER SIDEWALK DRAIN CAST IN PLACE (CRS 309)	EA	1	5,400.00	5,400.00	6,760.00	6,760.00

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PROJECT No. C4-0074

Base Bid (Continue)					2 All American Asphalt Corona, CA 92878		3 R. J. Noble Company Corona, CA 92878	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
36	719530	CURB DRAIN	EA	3	1,400.00	4,200.00	1,560.00	4,680.00
37	650018	24" REINFORCED CONCRETE PIPE	LF	100	209.00	20,900.00	310.00	31,000.00
38	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	50	69.00	3,450.00	101.00	5,050.00
39	820151	OBJECT MARKER (TYPE L-1)	EA	54	51.00	2,754.00	52.00	2,808.00
40	151281	SALVAGE ROADSIDE SIGN	EA	54	51.00	2,754.00	33.25	1,795.50
41	000003	REPLACE WOOD POST WITH NEW STEEL POST	EA	28	168.00	4,704.00	175.00	4,900.00
42	566011	ROADSIDE SIGN - ONE POST	EA	176	255.00	44,880.00	259.00	45,584.00
43	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	4,700	3.26	15,322.00	3.35	15,745.00
44	840656	PAINT TRAFFIC STRIPE (2-COAT)	LF	68,000	0.27	18,360.00	0.27	18,360.00
45	597401	PAINT CURB RED (2-COAT)	LF	200	2.00	400.00	2.08	416.00
46	850102	PAVEMENT MARKER (REFLECTIVE)	EA	2,700	3.00	8,100.00	3.10	8,370.00
47	860811	DETECTOR LOOP	EA	38	205.00	7,790.00	228.00	8,664.00
48	010602	MISCELLANEOUS WORK (AS DIRECTED)	FA	1	380,000.00	380,000.00	380,000.00	380,000.00
48.1	511123	CONCRETE (RAPID SETTING)	CY	100	533.00	53,300.00	710.00	71,000.00
48.2	510501	MINOR CONCRETE [STAIRS, APWA 640-3, TYPE B]	SQFT	190	64.00	12,160.00	67.60	12,844.00
48.3	510501	MINOR CONCRETE [RAMP & LANDING, APWA 640-3, TYPE B]	SQFT	1,830	7.00	12,810.00	10.00	18,300.00
48.4	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=3', LEVEL]	LF	226	150.00	33,900.00	115.00	25,990.00
48.5	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 2, H=3', SLOPE]	LF	65	150.00	9,750.00	120.00	7,800.00
48.6	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=5', LEVEL]	LF	95	224.00	21,280.00	229.00	21,755.00
48.7	833000	METAL RAILING [APWA 606-3, TYPE A (TWO RAILS)]	LF	500	98.00	49,000.00	93.00	46,500.00
48.8	802520	6' CHAIN LINK GATE (TYPE CL-6)	LF	35	87.00	3,045.00	235.00	8,225.00
Base Bid Sub-Total Items 1-48.8						**4,344,602.00**		**4,385,594.00**

Alternate Bid Schedule 1 (City of Lake Elsinore)					2 All American Asphalt Corona, CA 92878		3 R. J. Noble Company Corona, CA 92878	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
49	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	4,600	1.75	8,050.00	1.55	7,130.00
50	011506	WEDGE PLANE ASPHALT CONCRETE	LF	1,590	1.20	1,908.00	1.30	2,067.00
51	390130	HOT MIX ASPHALT	TON	790	63.00	49,770.00	61.00	48,190.00
52	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	690	75.00	51,750.00	71.50	49,335.00
53	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	107	57.00	6,099.00	26.00	2,782.00
54	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	6	3,000.00	18,000.00	3,506.15	21,036.90
Alt. Bid Sch. 1 Sub-Total Items 49-54						**135,577.00**		**130,540.90**

Riverside County Transportation Department
Summary of Bids

PROJECT: Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

Alternate Bid Schedule 2 (City of Wildomar)					2 All American Asphalt Corona, CA 92878		3 R. J. Noble Company Corona, CA 92878	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
55	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	9,000	1.74	15,660.00	1.55	13,950.00
56	190101	ROADWAY EXCAVATION	CY	40	149.00	5,960.00	45.00	1,800.00
57	190185	SHOULDER BACKING	LF	620	5.00	3,100.00	1.39	861.80
58	260201	CLASS 2 AGGREGATE BASE	CY	20	112.00	2,240.00	64.35	1,287.00
59	390130	HOT MIX ASPHALT	TON	200	62.30	12,460.00	61.00	12,200.00
60	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	180	75.00	13,500.00	71.50	12,870.00
61	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	2,000	20.24	40,480.00	28.00	56,000.00
Alt. Bid Sch. 2 Sub-Total Items 55-61						**93,400.00**		**98,968.80**

Alternate Bid Schedule 3 (Utility Adjustments)					2 All American Asphalt Corona, CA 92878		3 R. J. Noble Company Corona, CA 92878	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
62	152440	ADJUST MANHOLE TO GRADE (GTE/VERIZON)	EA	26	650.00	16,900.00	475.00	12,350.00
63	152440	ADJUST MANHOLE TO GRADE (TIME WARNER TELECOM)	EA	4	650.00	2,600.00	475.00	1,900.00
64	152440	ADJUST MANHOLE TO GRADE (LEVEL 3)	EA	4	650.00	2,600.00	475.00	1,900.00
65	152440	ADJUST MANHOLE TO GRADE (SEWER)	EA	71	650.00	46,150.00	475.00	33,725.00
Alt. Bid Sch. 3 Sub-Total Items 62-65						**68,250.00**		**49,875.00**

Project Total Items 1-65	**4,641,829.00**	**4,664,978.70**

Riverside County Transportation Department
Summary of Bids

PROJECT: Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

Base Bid					4 Hardy & Harper Santa Ana, CA 92705		5 Pyramid Construction Herber, CA 92249	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
1	066102	DUST ABATEMENT	LS	1	5,115.50	5,115.50	60,000.00	60,000.00
2	074020	WATER POLLUTION CONTROL	LS	1	24,000.00	24,000.00	8,000.00	8,000.00
3	120100	TRAFFIC CONTROL SYSTEM	LS	1	333,000.00	333,000.00	180,000.00	180,000.00
4	160101	CLEARING AND GRUBBING	LS	1	77,000.00	77,000.00	81,000.00	81,000.00
5	220101	FINISHING ROADWAY	LS	1	64,000.00	64,000.00	62,000.00	62,000.00
6	015602	FUNDING AWARENESS SIGN	EA	2	1,000.00	2,000.00	1,500.00	3,000.00
7	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4	1,500.00	6,000.00	3,000.00	12,000.00
8	066237	REMOVE TREES	EA	11	1,000.00	11,000.00	600.00	6,600.00
9	160121	REMOVE TREE STUMP	EA	4	400.00	1,600.00	600.00	2,400.00
10	152438	ADJUST FRAME AND COVER TO GRADE	EA	1	2,500.00	2,500.00	55,000.00	55,000.00
11	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	97,700	2.00	195,400.00	2.25	219,825.00
12	011506	WEDGE PLANE ASPHALT CONCRETE	LF	12,100	1.50	18,150.00	1.50	18,150.00
13	190101	ROADWAY EXCAVATION	CY	3,220	44.50	143,290.00	75.00	241,500.00
14	190185	SHOULDER BACKING	LF	28,300	1.00	28,300.00	2.00	56,600.00
15	260201	CLASS 2 AGGREGATE BASE	CY	1,830	44.50	81,435.00	45.00	82,350.00
16	390130	HOT MIX ASPHALT	TON	18,290	62.50	1,143,125.00	70.00	1,280,300.00
17	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	14,660	75.00	1,099,500.00	79.00	1,158,140.00
18	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	TON	590	100.00	59,000.00	75.00	44,250.00
19	013903	PLACE ASPHALT CONCRETE DIKE (CRS 212) (6")	LF	1,600	4.00	6,400.00	6.00	9,600.00
20	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	LF	1,250	4.00	5,000.00	6.00	7,500.00
21	013902	ASPHALT CONCRETE OVERSIDE DRAIN (CRS 306)	EA	2	1,500.00	3,000.00	2,000.00	4,000.00
22	017304	MINOR CONCRETE (CURB AND GUTTER) (CRS 200)	LF	200	36.50	7,300.00	29.40	5,880.00
23	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	1,820	36.50	66,430.00	27.20	49,504.00
24	017310	MINOR CONCRETE (DRIVEWAY APPROACH) (CRS 207)	SQFT	2,400	8.25	19,800.00	8.50	20,400.00
25	017303	MINOR CONCRETE (SPANDREL) (CRS 209)	SQFT	4,800	13.50	64,800.00	9.84	47,232.00
26	017302	MINOR CONCRETE (CROSS-GUTTER) (CRS 209)	SQFT	520	13.50	7,020.00	13.30	6,916.00
27	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	7,200	20.00	144,000.00	11.61	83,592.00
28	731516	MINOR CONCRETE (DRIVEWAY)	SQFT	3,070	8.25	25,327.50	13.61	41,782.70
29	731521	MINOR CONCRETE (SIDEWALK)	SQFT	6,250	5.67	35,437.50	6.00	37,500.00
30	731501	MINOR CONCRETE (MONOLITHIC CURB)	LF	475	33.00	15,675.00	19.51	9,267.25
31	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	10	3,200.00	32,000.00	6,585.00	65,850.00
32	017316	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE B)	EA	12	3,200.00	38,400.00	3,500.00	42,000.00
33	731623	MINOR CONCRETE (CURB RAMP)	EA	8	3,200.00	25,600.00	2,000.00	16,000.00
34	017005	CATCH BASIN (COMBINATION INLET) (CRS 302)	EA	3	8,000.00	24,000.00	2,500.00	7,500.00
35	011503	UNDER SIDEWALK DRAIN CAST IN PLACE (CRS 309)	EA	1	5,000.00	5,000.00	3,000.00	3,000.00

Riverside County Transportation Department
Summary of Bids

PROJECT: Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

Base Bid (Continue)					4 Hardy & Harper Santa Ana, CA 92705		5 Pyramid Construction Corona, CA 92878	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
36	719530	CURB DRAIN	EA	3	2,000.00	6,000.00	1,000.00	3,000.00
37	650018	24" REINFORCED CONCRETE PIPE	LF	100	370.00	37,000.00	205.00	20,500.00
38	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	50	100.00	5,000.00	120.00	6,000.00
39	820151	OBJECT MARKER (TYPE L-1)	EA	54	55.00	2,970.00	60.00	3,240.00
40	151281	SALVAGE ROADSIDE SIGN	EA	54	37.00	1,998.00	40.00	2,160.00
41	000003	REPLACE WOOD POST WITH NEW STEEL POST	EA	28	177.00	4,956.00	185.00	5,180.00
42	566011	ROADSIDE SIGN - ONE POST	EA	176	255.00	44,880.00	300.00	52,800.00
43	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	4,700	3.30	15,510.00	5.00	23,500.00
44	840656	PAINT TRAFFIC STRIPE (2-COAT)	LF	68,000	0.30	20,400.00	0.32	21,760.00
45	597401	PAINT CURB RED (2-COAT)	LF	200	5.00	1,000.00	3.00	600.00
46	850102	PAVEMENT MARKER (REFLECTIVE)	EA	2,700	4.00	10,800.00	4.00	10,800.00
47	860811	DETECTOR LOOP	EA	38	300.00	11,400.00	500.00	19,000.00
48	010602	MISCELLANEOUS WORK (AS DIRECTED)	FA	1	380,000.00	380,000.00	380,000.00	380,000.00
48.1	511123	CONCRETE (RAPID SETTING)	CY	100	777.00	77,700.00	450.00	45,000.00
48.2	510501	MINOR CONCRETE [STAIRS, APWA 640-3, TYPE B]	SQFT	190	150.00	28,500.00	100.00	19,000.00
48.3	510501	MINOR CONCRETE [RAMP & LANDING, APWA 640-3, TYPE B]	SQFT	1,830	20.00	36,600.00	8.12	14,859.60
48.4	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=3', LEVEL]	LF	226	200.00	45,200.00	178.00	40,228.00
48.5	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 2, H=3', SLOPE]	LF	65	200.00	13,000.00	205.00	13,325.00
48.6	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=5', LEVEL]	LF	95	300.00	28,500.00	242.00	22,990.00
48.7	833000	METAL RAILING [APWA 606-3, TYPE A (TWO RAILS)]	LF	500	90.00	45,000.00	100.00	50,000.00
48.8	802520	6' CHAIN LINK GATE (TYPE CL-6)	LF	35	300.00	10,500.00	35.00	1,225.00
Base Bid Sub-Total Items 1-48.8						**4,646,519.50**		**4,783,806.55**

Alternate Bid Schedule 1 (City of Lake Elsinore)					4 Hardy & Harper Santa Ana, CA 92705		5 Pyramid Construction Corona, CA 92878	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
49	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	4,600	2.00	9,200.00	2.25	10,350.00
50	011506	WEDGE PLANE ASPHALT CONCRETE	LF	1,590	1.50	2,385.00	1.50	2,385.00
51	390130	HOT MIX ASPHALT	TON	790	62.50	49,375.00	90.00	71,100.00
52	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	690	75.00	51,750.00	100.00	69,000.00
53	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	107	36.50	3,905.50	40.00	4,280.00
54	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	6	3,200.00	19,200.00	5,000.00	30,000.00
Alt. Bid Sch. 1 Sub-Total Items 49-54						**135,815.50**		**187,115.00**

Riverside County Transportation Department
Summary of Bids

PROJECT: Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

Alternate Bid Schedule 2 (City of Wildomar)					4 Hardy & Harper Santa Ana, CA 92705		5 Pyramid Construction Corona, CA 92878	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
55	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	9,000	2.00	18,000.00	2.50	22,500.00
56	190101	ROADWAY EXCAVATION	CY	40	44.50	1,780.00	75.00	3,000.00
57	190185	SHOULDER BACKING	LF	620	1.00	620.00	5.00	3,100.00
58	260201	CLASS 2 AGGREGATE BASE	CY	20	44.50	890.00	15.00	300.00
59	390130	HOT MIX ASPHALT	TON	200	62.50	12,500.00	90.00	18,000.00
60	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	180	75.00	13,500.00	90.00	16,200.00
61	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	2,000	20.00	40,000.00	16.00	32,000.00
Alt. Bid Sch. 2 Sub-Total Items 55-61						**87,290.00**		**95,100.00**

Alternate Bid Schedule 3 (Utility Adjustments)					4 Hardy & Harper Santa Ana, CA 92705		5 Pyramid Construction Corona, CA 92878	
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE	BID UNIT PRICE	BID ESTIMATE
62	152440	ADJUST MANHOLE TO GRADE (GTE/VERIZON)	EA	26	925.00	24,050.00	1,000.00	26,000.00
63	152440	ADJUST MANHOLE TO GRADE (TIME WARNER TELECOM)	EA	4	925.00	3,700.00	1,000.00	4,000.00
64	152440	ADJUST MANHOLE TO GRADE (LEVEL 3)	EA	4	925.00	3,700.00	1,000.00	4,000.00
65	152440	ADJUST MANHOLE TO GRADE (SEWER)	EA	71	675.00	47,925.00	1,000.00	71,000.00
Alt. Bid Sch. 3 Sub-Total Items 62-65						**79,375.00**		**105,000.00**

Project Total Items 1-65	**4,949,000.00**	**5,171,021.55**

Riverside County Transportation Department
Summary of Bids

PROJECT: Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

Base Bid					6 Excel Paving Company Long Beach, CA 90806			
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE		
1	066102	DUST ABATEMENT	LS	1	25,000.00	25,000.00		
2	074020	WATER POLLUTION CONTROL	LS	1	20,000.00	20,000.00		
3	120100	TRAFFIC CONTROL SYSTEM	LS	1	150,000.00	150,000.00		
4	160101	CLEARING AND GRUBBING	LS	1	50,000.00	50,000.00		
5	220101	FINISHING ROADWAY	LS	1	30,000.00	30,000.00		
6	015602	FUNDING AWARENESS SIGN	EA	2	1,300.00	2,600.00		
7	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4	5,500.00	22,000.00		
8	066237	REMOVE TREES	EA	11	960.00	10,560.00		
9	160121	REMOVE TREE STUMP	EA	4	450.00	1,800.00		
10	152438	ADJUST FRAME AND COVER TO GRADE	EA	1	1,200.00	1,200.00		
11	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	97,700	2.10	205,170.00		
12	011506	WEDGE PLANE ASPHALT CONCRETE	LF	12,100	1.40	16,940.00		
13	190101	ROADWAY EXCAVATION	CY	3,220	78.00	251,160.00		
14	190185	SHOULDER BACKING	LF	28,300	2.90	82,070.00		
15	260201	CLASS 2 AGGREGATE BASE	CY	1,830	68.00	124,440.00		
16	390130	HOT MIX ASPHALT	TON	18,290	71.70	1,311,393.00		
17	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	14,660	78.70	1,153,742.00		
18	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	TON	590	178.00	105,020.00		
19	013903	PLACE ASPHALT CONCRETE DIKE (CRS 212) (6")	LF	1,600	12.00	19,200.00		
20	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	LF	1,250	13.00	16,250.00		
21	013902	ASPHALT CONCRETE OVERSIDE DRAIN (CRS 306)	EA	2	4,000.00	8,000.00		
22	017304	MINOR CONCRETE (CURB AND GUTTER) (CRS 200)	LF	200	46.00	9,200.00		
23	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	1,820	44.00	80,080.00		
24	017310	MINOR CONCRETE (DRIVEWAY APPROACH) (CRS 207)	SQFT	2,400	11.00	26,400.00		
25	017303	MINOR CONCRETE (SPANDREL) (CRS 209)	SQFT	4,800	20.40	97,920.00		
26	017302	MINOR CONCRETE (CROSS-GUTTER) (CRS 209)	SQFT	520	20.00	10,400.00		
27	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	7,200	14.80	106,560.00		
28	731516	MINOR CONCRETE (DRIVEWAY)	SQFT	3,070	10.80	33,156.00		
29	731521	MINOR CONCRETE (SIDEWALK)	SQFT	6,250	6.50	40,625.00		
30	731501	MINOR CONCRETE (MONOLITHIC CURB)	LF	475	24.00	11,400.00		
31	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	10	3,600.00	36,000.00		
32	017316	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE B)	EA	12	3,500.00	42,000.00		
33	731623	MINOR CONCRETE (CURB RAMP)	EA	8	3,600.00	28,800.00		
34	017005	CATCH BASIN (COMBINATION INLET) (CRS 302)	EA	3	10,000.00	30,000.00		
35	011503	UNDER SIDEWALK DRAIN CAST IN PLACE (CRS 309)	EA	1	3,000.00	3,000.00		

Riverside County Transportation Department
Summary of Bids

PROJECT: Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

Base Bid (Continue)

					6 Excel Paving Company Long Beach, CA 90806			
ITEM NO.	**ITEM CODE**	**CONTRACT ITEM**	**UNITS**	**QUANTITY**	**BID UNIT PRICE**	**BID ESTIMATE**		
36	719530	CURB DRAIN	EA	3	2,000.00	6,000.00		
37	650018	24" REINFORCED CONCRETE PIPE	LF	100	236.00	23,600.00		
38	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	50	55.00	2,750.00		
39	820151	OBJECT MARKER (TYPE L-1)	EA	54	57.00	3,078.00		
40	151281	SALVAGE ROADSIDE SIGN	EA	54	36.00	1,944.00		
41	000003	REPLACE WOOD POST WITH NEW STEEL POST	EA	28	190.00	5,320.00		
42	566011	ROADSIDE SIGN - ONE POST	EA	176	280.00	49,280.00		
43	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	4,700	3.60	16,920.00		
44	840656	PAINT TRAFFIC STRIPE (2-COAT)	LF	68,000	0.30	20,400.00		
45	597401	PAINT CURB RED (2-COAT)	LF	200	2.30	460.00		
46	850102	PAVEMENT MARKER (REFLECTIVE)	EA	2,700	3.40	9,180.00		
47	860811	DETECTOR LOOP	EA	38	255.00	9,690.00		
48	010602	MISCELLANEOUS WORK (AS DIRECTED)	FA	1	380,000.00	380,000.00		
48.1	511123	CONCRETE (RAPID SETTING)	CY	100	1,200.00	120,000.00		
48.2	510501	MINOR CONCRETE [STAIRS, APWA 640-3, TYPE B]	SQFT	190	76.00	14,440.00		
48.3	510501	MINOR CONCRETE [RAMP & LANDING, APWA 640-3, TYPE B]	SQFT	1,830	20.00	36,600.00		
48.4	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=3', LEVEL]	LF	226	160.00	36,160.00		
48.5	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 2, H=3', SLOPE]	LF	65	170.00	11,050.00		
48.6	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=5', LEVEL]	LF	95	323.00	30,685.00		
48.7	833000	METAL RAILING [APWA 606-3, TYPE A (TWO RAILS)]	LF	500	110.00	55,000.00		
48.8	802520	6' CHAIN LINK GATE (TYPE CL-6)	LF	35	220.00	7,700.00		
Base Bid Sub-Total Items 1-48.8						**5,002,343.00**		

Alternate Bid Schedule 1 (City of Lake Elsinore)

					6 Excel Paving Company Long Beach, CA 90806			
ITEM NO.	**ITEM CODE**	**CONTRACT ITEM**	**UNITS**	**QUANTITY**	**BID UNIT PRICE**	**BID ESTIMATE**		
49	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	4,600	2.20	10,120.00		
50	011506	WEDGE PLANE ASPHALT CONCRETE	LF	1,590	1.40	2,226.00		
51	390130	HOT MIX ASPHALT	TON	790	67.00	52,930.00		
52	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	690	86.00	59,340.00		
53	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	107	32.00	3,424.00		
54	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	6	2,700.00	16,200.00		
Alt. Bid Sch. 1 Sub-Total Items 49-54						**144,240.00**		

Riverside County Transportation Department
Summary of Bids

PROJECT: Grand Ave Resurfacing and Widening Project, Corydon Road to Bonnie Lea Drive, Community of Lakeland Village

Advertised: January 6, 2015 (Agenda Item: 3-42)
Addenda: 1 (1/22/2015), 2 (1/29/2015)
Bids Open: 2 pm Date: Wednesday, February 4, 2015

PROJECT No. C4-0074

Alternate Bid Schedule 2 (City of Wildomar)					6 Excel Paving Company Long Beach, CA 90806			
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE		
55	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	9,000	2.15	19,350.00		
56	190101	ROADWAY EXCAVATION	CY	40	92.00	3,680.00		
57	190185	SHOULDER BACKING	LF	620	3.00	1,860.00		
58	260201	CLASS 2 AGGREGATE BASE	CY	20	85.00	1,700.00		
59	390130	HOT MIX ASPHALT	TON	200	66.00	13,200.00		
60	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	180	85.00	15,300.00		
61	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	2,000	8.50	17,000.00		
Alt. Bid Sch. 2 Sub-Total Items 55-61						**72,090.00**		

Alternate Bid Schedule 3 (Utility Adjustments)					6 Excel Paving Company Long Beach, CA 90806			
ITEM NO.	ITEM CODE	CONTRACT ITEM	UNITS	QUANTITY	BID UNIT PRICE	BID ESTIMATE		
62	152440	ADJUST MANHOLE TO GRADE (GTE/VERIZON)	EA	26	1,000.00	26,000.00		
63	152440	ADJUST MANHOLE TO GRADE (TIME WARNER TELECOM)	EA	4	4,000.00	16,000.00		
64	152440	ADJUST MANHOLE TO GRADE (LEVEL 3)	EA	4	4,000.00	16,000.00		
65	152440	ADJUST MANHOLE TO GRADE (SEWER)	EA	71	730.00	51,830.00		
Alt. Bid Sch. 3 Sub-Total Items 62-65						**109,830.00**		

Project Total Items 1-65	**5,328,503.00**

Juan C. Perez, P.E., T.E.
Director of Transportation and Land Management

COUNTY OF RIVERSIDE
TRANSPORTATION AND LAND MANAGEMENT AGENCY
Transportation Department

Patricia Romo, P.E.
Assistant Director of Transportation

ADDENDUM NUMBER 1
Dated January 22, 2015
to the
Specifications and Contract Documents
for the construction of

Grand Avenue
Resurfacing and Widening Project
Corydon Road to Bonnie Lea Drive
Community of Lakeland Village

Project No. C4-0074

Bids Due: **(REVISED)**
Wednesday, February 4, 2015; 2:00 p.m.
14th Street Transportation Annex
3525 14th Street; Riverside, CA 92501
(951) 955-6780

This Addendum is issued pursuant to the Instructions to Bidders, Item No. 8, of the Contract Documents for the reference project. This Addendum is issued as a supplement to the specification and special provisions for the referenced project. The revisions to the specifications shall become a part of the Contract Documents, and each bidder shall acknowledge receipt thereof on the Contractor's Proposal. Bidders are directed to sign this addendum as acknowledged, and attach the signed addendum to the contractor's submitted proposal.

Note: During the advertisement period of this project, this document and attachments (if any) are available upon request at the office of the Transportation Department, and are available as a free download at the Transportation Department's website:

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

MODIFICATIONS / CLARIFICATIONS TO SPECIAL PROVISIONS:

Item 1: The new designated date and time for the receipt and opening of bids is revised as follows:

Wednesday, February 4, 2015; 2:00 p.m.
14th Street Transportation Annex
3525 14th Street; Riverside, CA 92501
(951) 955-6780

Prepared by: _____ 1/22/15
Joel Jimenez, PE; Senior Civil Engineer; Contracts/Bidding Unit

Acknowledged: _____ Date: _____
(Contractor)

JRJ:jrj

Juan C. Perez, P.E., T.E.
Director of Transportation and Land Management

COUNTY OF RIVERSIDE
TRANSPORTATION AND LAND MANAGEMENT AGENCY

Transportation Department

Patricia Romo, P.E.
Assistant Director of Transportation

ADDENDUM NUMBER 2
Dated January 29, 2015

to the
Specifications and Contract Documents
for the construction of

Grand Avenue
Resurfacing and Widening Project
Corydon Road to Bonnie Lea Drive
Community of Lakeland Village

Project No. C4-0074

Bids Due: **Wednesday, February 4, 2015; 2:00 p.m.**
14th Street Transportation Annex
3525 14th Street; Riverside, CA 92501
(951) 955-6780

This Addendum is issued pursuant to Section 8 of Instructions to Bidders of the Contract Documents for the reference project. This Addendum is issued as a supplement to the specification and special provisions for the referenced project. The revisions to the plans and specifications shall become a part of the Contract Documents, and each bidder shall acknowledge receipt thereof on the Contractor's Bid. Bidders are directed to sign this addendum as acknowledged, and attach the signed addendum to the contractor's submitted Bid.

Note: During the advertisement period of this project, this document and attachments (if any) are available upon request at the office of the Transportation Department, and are available as a free download at the Transportation Department's website:

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

MODIFICATIONS / CLARIFICATIONS TO SPECIAL PROVISIONS:

Item 1: **Public Works Contractor Registration Program**
All bidding contractors and subcontractors are being advised that no contractor or subcontractor may be awarded a contract for public works on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to labor Code section 1725.5.

Item 2: **Notice to Bidders**
Refer to "Notice to Bidders" page "iv" of the Special Provisions. Delete the Engineering Estimate range for Base Bid and replace with the following:
Engineering Estimate: $4,000,000 - $4,500,000 (Base Bid)

Item 3: Revised Proposal

Refer to "Proposal" page B2-B4 of the Special Provisions. Delete and replace "PROPOSAL" (page B2 through B4) with revised "Proposal" attached herewith as **Attachment "A".** The following revisions have been made to the bid Proposal:

a. ESTIMATED QUANTITY" is revised for the following bid items:

- Item 13, "ROADWAY EXCAVATION"
- Item 15, "CLASS 2 AGGREGATE BASE "
- Item 16, "HOT MIX ASPHALT"
- Item 18, "PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)"
- Item 23, "MINOR CONCRETE (CURB AND GUTTER) (CRS 201)"
- Item 24, "MINOR CONCRETE (DRIVEWAY APPROACH) (CRS 207)"
- Item 27, "MINOR CONCRETE (DIP SECTION) (CRS 307)"
- Item 28, "MINOR CONCRETE (DRIVEWAY)"
- Item 29, "MINOR CONCRETE (SIDEWALK)"
- Item 30, "MINOR CONCRETE (MONOLITHIC CURB)"
- Item 34, "CATCH BASIN (COMBINATION INLET) (CRS 302)"
- Item 36, "CURB DRAIN"

b. "ITEM CODE" and "ITEM" are revised for the following bid items:

- Item 34, "CATCH BASIN (CURB INLET) (CRS 300)"

c. "Following new bid items are added to base bid:

- Item 48.1, "CONCRETE (RAPID SETTING)"
- Item 48.2, "MINOR CONCRETE [STAIRS, APWA 640-3, TYPE B]"
- Item 48.3, "MINOR CONCRETE [RAMP & LANDING, APWA 640-3, TYPE B]"
- Item 48.4, MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=3', LEVEL]"
- Item 48.5, "MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 2, H=3', SLOPE]"
- Item 48.6, "MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=5', LEVEL]"
- Item 48.7, "METAL RAILING [APWA 606-3, TYPE A (TWO RAILS)]"
- Item 48.8, "6' CHAIN LINK GATE (TYPE CL-6)"

See Attachment "A"

Item 4: Description

Refer to section "Description" on page 1 of Special Provisions. Delete second paragraph and replace with the following:

The resurfacing project will cold plane 0.25' of the existing asphalt and place 0.25'of new Hot Mix Asphalt (HMA) back on the road. The areas that are widened will be graded and 0.25' of HMA will be placed over native material. A 0.15' layer of Asphalt Rubber Hot Mix (ARHM) will be placed over the entire road width. Both the resurfaced areas and widened areas will have 0.40' of new AC total. The westerly half of Grand Avenue between Baldwin Blvd and Blackwell Blvd will be reconstructed to improve drainage with 0.15' ARHM over 0.25' HMA over 0.50' Class 2 AB. The 0.15' layer of Asphalt Rubber Hot Mix will raise the road surface and the plan will include transitions to the paved side streets, driveways and paved parking areas. Shoulder backing and grading will provide an additional 4' graded shoulder.

Item 5: Pavement Safety Edge

Refer to section "Pavement Safety Edge" on page 47 of Special Provisions. This section has been deleted.

Item 6: Minor Concrete

Refer to section "Minor Concrete" on page 49 of the Special Provisions. Following additional provisions are added and made part thereof:

Contractor shall construct following additional minor concrete structures as shown on the plans and in conformance with applicable standard Specifications and as directed:

Minor Concrete stairs per APWA standard 640-3, type B
Minor Concrete ramp and landing per APWA standard 640-3, type B
Minor Concrete (wall) per County of Riverside retaining Wall standards

Method of Payment

The contract unit bid price paid per square foot for Minor Concrete Stairs, Minor Concrete Ramp & Landing, and per linear foot for Minor Concrete (Wall), which shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved including disposal of removed material, and construction of minor concrete items of work complete in place, and no additional compensation will be allowed therefor.

Item 7: Detector Loop

Refer to section "Detector Loop" on page 56 of the Special Provisions. Following additional requirement is added and made part thereof.

COORDINATION WITH COUNTY'S SIGNAL SHOP:

Contractor shall coordinate with County's Signal Shop prior to performing following operations/activities when there is a possibility to cut through existing traffic signal detector loops:

Roadway Excavation
Wedge Planing
Cold planing

Full compensation to coordinate with signal shop shall be considered as included in

various items of work and no additional compensation will be allowed.

Item 8: Pipe Hand Railing

Refer to section "Pipe Hand Railing" on page 59 of the Special Provisions. Delete this section and Replace with the following:

METAL HAND RAILING:

Metal Hand Railing shall conform to the Metal Hand Railings APWA standard 606-3, and Standard Specifications Section 83-1.02A, and as shown on the plan, and these Special Provisions and as directed by Engineer.

Method of Payment

The metal hand railing will be measured by the linear foot from end to end along the face of the railing, including end and intermediate posts, and with no deductions for gaps in railing for lighting and sign supports.

Metal Hand Railing will be paid per linear foot as Metal Railing [APWA 606-3, Type A (Two Rails)], and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the railings, complete in place, including, but not limited to, excavation, backfill and disposal of surplus material, concrete and reinforcing steel, as shown on the plans, as specified in these specifications and the special provisions, and as directed by the Engineer.

Item 9: Chain Link Fence

Refer to section "Chain Link Fence" on page 59 of the Special Provisions. The first paragraph is deleted and replaced with the following:

Contractor shall install Chain Link Fence (CL-6) and Chain Link Gate (CL-6) where shown on the plan in accordance with section 80 Fences, and Section 80-4 Chain Link Fence of Standard Specification, these Special Provisions and as directed by Engineer.

Full compensation to furnish and install Chain Link Gate will be paid for at the contract price per linear foot and no additional compensation will be allowed.

Item 10: Construction Zone Enhanced Enforcement Program (COZEEP)

Following Special Provisions added and made part hereof:

CONSTRUCTION ZONE ENHANCED ENFORCEMENT PROGRAM (COZEEP):

COZEEP improves project safety through the use of supplemental California Highway Patrol Units to assist in the management of traffic passing through the construction zone. COZEEP involves the presence of the CHP in certain construction zones to serve as a reminder to the public to slow down, observe construction zone signs, and use care while driving through the work zone.

COZEEP shall be considered when above normal traffic problems are anticipated or unique conditions warrant additional public or worker protection.

The Contractor shall coordinate with the Resident Engineer when COZEEP services are needed from the California Highway Patrol.

Method of Payment

Contractor shall pay COZEEP service fee to California Highway Patrol (CHP) when service is rendered and County will reimburse this payment to Contractor.

Full compensation for the actual cost of COZEEP fees, as paid by the Contractor to California Highway Patrol, shall be reimbursed to the Contractor on Force Account Basis under the bid item Miscellaneous Work (As Directed) when invoiced in conformance to these Special Provisions, No markups will be allowed. All incidental costs incurred by the Contractor shall be included in the various items of work, and no additional compensation will be allowed therefor.

Item 11: Slab Replacement with Rapid Strength Concrete (Dip Section)
Following Special Provisions added and made part hereof:

SLAB REPLACEMENT WITH RAPID STRENGTH CONCRETE (DIP SECTION):
This section shall consist of removing and replacing segment of the existing concrete pavement of the Dip Section structure. The replaced slab shall be constructed with Rapid Strength Concrete (RSC) as shown on the plans and in conformance with Section 40, "Portland Cement Concrete Pavement" of the Standard Specifications and these Special Provisions.

DEFINITIONS

The following definitions shall apply to this section:

1. EARLY AGE – A time less than 10 times the final set time of the concrete.
2. FINAL SET TIME – The elapsed time after initial contact of cement and water, or accelerator, if used, at which a specific penetration resistance of 4,000 pounds per square inch is achieved in conformance with the requirements in ASTM Designation: C 403.
3. OPENING AGE – The age at which the concrete will achieve the specified strength for opening to public and construction traffic.

QUALITY CONTROL

The Contractor shall perform quality control inspection, sampling and testing to ensure that slab replacement production and placement conform to the provisions specified herein.

The Contractor shall provide the required sampling, testing and inspection during all phases of slab replacement production and placement. The Contractor shall provide a minimum of two business days' notice to the Engineer, so the Engineer can witness all sampling and testing. The Engineer shall be given unrestricted access to the Contractor's quality control inspectors, samplers, testers and laboratories. During the production and placement period, the Contractor shall provide results of all testing to the Engineer within 15 minutes of completion of testing. The Contractor shall record all inspection, sampling and testing on forms approved by the Engineer. The Contractor shall provide written results of all inspection and testing to the Engineer within 48 hours of completion of each shift of paving and within 24 hours for all 3-day strength tests.

The Contractor shall provide a testing laboratory with adequate equipment and personnel for the performance of the quality control tests. This laboratory shall be located at a location approved by the Engineer and so that prompt testing requirements will be achieved. All sampling and testing equipment shall be maintained in proper working condition. Sampling shall be performed in conformance with the requirements of California Test 125.

Testing laboratories, testing equipment, and sampling and testing personnel shall conform to the requirements of Caltrans IAP certification.

TRIAL SLAB

Prior to beginning work on slab replacement with RSC, the Contractor shall successfully complete one or more trial slabs for each RSC mix design to be used in constructing RSC pavement. Trial slabs shall be constructed, finished, cured and tested with the materials, tools, equipment, personnel and methods to be used in completing RSC pavement. Trial slabs shall demonstrate that the Contractor is capable of producing RSC pavement in conformance with the provisions in this section, within anticipated time periods including delivery, placement, finishing and curing times, and under similar atmospheric and temperature conditions expected during replacement operations. Multiple trial slabs for each RSC mix design may be required to envelop variable atmospheric and temperature conditions.

The trial slab shall be a minimum 6' x 12' and shall be at least 9 inches thick. Trial slabs shall be placed near the project site at a location mutually acceptable to the Engineer and the Contractor except slabs shall not be placed on the roadway or within the project limits.

During trial slab construction, the Contractor shall sample and split the aggregate for gradings, cleanness value, and sand equivalent testing with the Engineer, at the Contractor's cost. Both sets of test results of these samples shall conform to the provisions in Section 90-2.02, "Aggregates" of the Standard Specifications. If test results do not conform to the requirements, the trial slab will be rejected.

During trial slab construction and within 20 minutes of RSC delivery, beams shall be fabricated in conformance with the requirements in California Test 524 to determine early age and 3-day modulus of rupture values. Beams fabricated for early age testing shall be cured so that the monitored temperature in the beams and the trial slab are within 5° F at all times. Internal temperatures of trial slab and early age beams shall be monitored and recorded at minimum time intervals of 5 minutes by installing thermocouples and or thermistors connected to strip-chart recorders or digital data loggers. Temperature recording devices shall be accurate to within ±2° F. Internal temperature readings shall be measured at one inch from the top and one inch from the bottom, no closer than 3 inches from any edge of the concrete elements, until early age testing is completed. Beams fabricated for 3-day testing shall be cured in conformance with California Test 524 except they shall be placed into sand at between 5 and 10 times final set time or 24 hours, whichever is earlier. Trial slabs shall have an opening age modulus of rupture of not less than 400 pounds per square inch and a 3-day modulus of rupture of not less than 600 pounds per square inch. Beams failing opening age or 3-day modulus of rupture requirements shall be cause for rejection of the trial slab.

Materials resulting from construction of trial slabs and test specimens shall become the property of the Contractor and shall be removed and disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way" of the Standard Specifications.

RAPID STRENGTH CONCRETE

General

Rapid Strength Concrete (RSC) shall be a concrete made with hydraulic cement that develops opening age and 3-day specified modulus of rupture strengths.

Requirements of Sections 40-1.05, "Proportioning" and 90-1.01, "Description" of the Standard Specifications shall not apply.

Combined aggregate grading used in RSC shall be either the 1-1/2-inch maximum grading, or one-inch maximum grading, at the option of the Contractor.

Cement for RSC shall be hydraulic cement as defined in ASTM Designation: C 219 and shall conform to the following requirements:

1. Test Description	Test Method	Requirement
2. Contraction in Air	California Test 527,W/C Ratio = 0.39 ±0.010	0.053 %, max.
3. Mortar Expansion in Water	ASTM Designation: C 1038	0.04 %, max.
4. Soluble Chloride*	California Test 422	0.05 %, max.
5. Soluble Sulfates*	California Test 417	0.30 %, max.
6. Thermal Stability	California Test 553	60 %, min.
7. Compressive Strength @ 3 days	ASTM Designation: C 109	2,500 psi

*

Test is to be done on a cube specimen, fabricated in conformance with the requirements in ASTM Designation: C 109, cured at least 14 days and then pulverized to 100% passing the No. 50 sieve.

The Contractor shall submit uniformity reports for cement used in RSC to the Transportation Materials Laboratory. Uniformity reports shall conform to the requirements in ASTM Designation: C 917, except that testing age and water content may be modified to suit the particular material.

At least 10 days prior to use in the trial slab, the Contractor shall submit a mix design for RSC that shall include the following:

1. Opening age.
2. Proposed aggregate gradings.
3. Mix proportions of hydraulic cement and aggregate.
4. Types and amounts of chemical admixtures
5. Maximum time allowed between batching RSC and placing roadway pavement.
6. Range of ambient temperatures over which the mix design is effective (18° F maximum range).
7. Final set time of the concrete.

8. Any special instructions or conditions, including but not limited to, water temperature requirements when appropriate.

The Contractor shall submit more than one mix design to plan for ambient temperature variations anticipated during placement of the roadway pavement. Each mix shall be designed for a maximum ambient temperature range of 18° F. The Contractor shall develop and furnish modulus of rupture development data for each proposed mix design. Modulus of rupture development data may be developed from laboratory prepared samples. The testing ages for modulus of rupture development data shall include one hour before opening age, opening age, one hour after opening age, 24 hours, and 3 days.

Concrete pavement penetration requirements in Section 90-6.06, "Amount of Water and Penetration" of the Standard Specifications shall not apply to RSC.

RSC pavement shall develop a minimum modulus of rupture of 400 pounds per square inch at opening age and at least 600 pounds per square inch in 3 days after placement. Modulus of rupture shall be determined by averaging results from 3 beam specimens tested in conformance with the requirements in California Test 524. Beam specimens may be fabricated using an internal vibrator in conformance with the requirements in ASTM Designation: C 31. No single test shall represent more than the production of that day or 100 cubic yards, whichever is less.

Modulus of rupture at early age may be estimated using the correlation established during trial slab placement. When modulus of rupture at early age is determined using beam specimens, beam specimens shall be cured under atmospheric conditions and at a temperature within 5° F of the pavement. Modulus of rupture at other ages will be determined using beams cured and tested in conformance with California Test 524 except beams will be placed into sand between 5 times and 10 times final set time or 24 hours, whichever is earlier. The Engineer will perform the testing to determine modulus of rupture values of the RSC pavement. The modulus of rupture, as determined above, will be the basis for accepting or rejecting the RSC pavement for modulus of rupture requirements.

Any replaced slabs that develops one or more transverse cracks within 7 days after placement shall be removed and replaced at the Contractor's expense with Rapid Strength Concrete conforming to the requirements of these Special Provisions. A transverse crack is defined as a crack running from one longitudinal edge of the panel to the other.

PROPORTIONING

Weighing, measuring and metering devices used for proportioning materials shall conform to the provisions in Section 9-1.01, "Measurement of Quantities" of the Standard Specifications and these Special Provisions.

Over and under dials, and other indicators for weighing and measuring systems used in proportioning materials shall be grouped so that the smallest increment for each indicator can be accurately read from the point at which the proportioning operation is controlled for ingredients batched at a central batch plant. In addition, indicators for weighing and measuring cement batched from a remote weighing system shall also be

placed so that each indicator can be accurately read from the point at which the proportioning operation is controlled.

Aggregates shall be handled and stored in conformance with the provisions in Section 90-5.01, "Storage of Aggregates" of the Standard Specifications. Liquid admixtures shall be proportioned in conformance with the provisions in Section 90-4.10, "Proportioning and Dispensing Liquid Admixtures" of the Standard Specifications.

Weighing equipment shall be insulated against vibration or movement of other operating equipment. When the plant is in operation, the weight of each draft of material shall not vary from the designated weight by more than the tolerances specified herein. Each scale graduation shall be 0.001 of the usable scale capacity.

Aggregate shall be weighed cumulatively and equipment for the weighing of aggregate shall have a zero tolerance of ±0.5 percent of the designated total batch weight of the aggregate. Equipment for the separate weighing of the cement shall have a zero tolerance of ±0.5 percent of its designated individual batch draft. Equipment for measuring water shall have a zero tolerance of ±0.5 percent of its designated weight or volume.

The weight indicated for any individual batch of material shall not vary from the preselected scale setting by more than the following:

Material	Tolerance
Aggregate	±1.0 percent of designated batch weight
Cement	±0.5 percent of designated batch weight
Water	±1.5 percent of designated batch weight or volume

Proportioning shall consist of dividing the aggregates into the specified sizes, each stored in a separate bin, and combining them with cement and water as provided in these Special Provisions. Dry ingredients shall be proportioned by weight. Liquid ingredients shall be proportioned by weight or volume.

At the time of batching, aggregates shall have been dried or drained sufficiently to result in stable moisture content, so that no visible separation of water from aggregate will take place during the proportioning process. In no event shall the free moisture content of the fine aggregate at the time of batching exceed 8 percent of its saturated, surface-dry weight.

If separate supplies of aggregate material of the same size group with different moisture content or specific gravity or surface characteristics affecting workability are available at the proportioning plant, withdrawals shall be made from one supply exclusively and the materials therein completely exhausted before starting upon another supply.

Cement shall be kept separate from the aggregates until released for discharge into the mixer. Cement shall be free of lumps and clods when discharged into the mixer. Fabric containers used for transportation or proportioning of cement shall be clean and free of residue before reuse.

Weigh systems for proportioning aggregate and cement shall be individual and distinct from all other weigh systems. Each weigh system shall be equipped with a hopper, a

lever system, and an indicator to constitute an individual and distinct material-weighing device.

For batches with a volume of one cubic yard or more, proportioning equipment shall conform to one of the following methods:

1. All ingredients shall be batched at a central batch plant and charged into a mixer truck for transportation to the pour site. Ingredient proportioning shall meet the requirements of Section 90-5, "Proportioning" of the Standard Specifications.

2. All ingredients except the cement shall be batched at a central batch plant and charged into a mixer truck for transportation to a remote located silo and weigh system for the proportioning of the cement. The remote system shall proportion cement for charging the mixer truck.

3. All ingredients except the cement shall be batched at a central batch plant and charged into a mixer truck for transportation to a remote location where pre-weighed, containerized cement shall be added to the mixer truck. The cement pre-weighing operation shall utilize a platform scale. The platform scale shall have a maximum capacity of 2.75 tons with a maximum graduation size of one pound. Cement shall be pre-weighed into a fabric container. The minimum amount of cement to be proportioned into any single container shall be one half of the total amount required for the load of RSC being produced.

4. Cement, water, and aggregate shall be proportioned volumetrically in conformance with these Special Provisions.

In order to check the accuracy of batch weights, the gross weight and tare weight of truck mixers shall be determined when ordered by the Engineer. The equipment shall be weighed on scales designated by the Engineer.

The Contractor shall install and maintain in operating condition an electrically actuated moisture meter. The meter shall indicate, on a readily visible scale, changes in the moisture content of the fine aggregate as it is batched. The meter shall have a sensitivity of 0.5 percent by weight of the fine aggregate.

No additional mixing water shall be incorporated into the concrete during hauling or after arrival at the delivery point, unless authorized by the Engineer. If the Engineer authorizes additional water to be incorporated into the concrete, the drum shall be revolved not less than 30 revolutions at mixing speed after the water is added and before discharge is commenced. Water added to the truck mixer at the job site shall be measured through a meter that conforms to the provisions in Section 9-1.01, "Measurement of Quantities" of the Standard Specifications.

Aggregate discharged from several bins shall be controlled by gates or by mechanical conveyors. The means of discharge from the bins and from the weigh hopper shall be interlocked so that no more than one bin can discharge at a time, and so that the weigh hopper cannot be discharged until the required quantity from each of the bins has been deposited in the weigh hopper.

WEIGHMASTER CERTIFICATES

Weighmaster certificates for RSC, regardless of the proportioning method used, shall include all information necessary to trace the manufacturer, and manufacturer's lot number for the cement being used. When proportioned into fabric containers the weighmaster certificates for the cement shall contain date of proportioning, location of proportioning and actual net draft weight of the cement. When proportioned at the pour site from a storage silo the weighmaster certificates shall contain date of proportioning, location of proportioning and the net draft weight of the cement used in the load.

VOLUMETRIC PROPORTIONING

When RSC is proportioned by volume, the method shall conform to requirements specified herein.

Aggregates shall be handled and stored in conformance with the provisions in Section 90-5.01, "Storage of Aggregates" of the Standard Specifications. Liquid admixtures shall be proportioned in conformance with the provisions in Section 90-4.10, "Proportioning and Dispensing Liquid Admixtures" of the Standard Specifications.

Volumetric proportioned RSC shall be mixed in a mechanically operated mixer of adequate size and power for the type of RSC to be placed. Mixers may be of the auger type and shall be operated uniformly at the mixing speed recommended by the manufacturer. Mixers that have an accumulation of hard concrete or mortar shall be removed from service until cleaned.

Charge or rate of feed to the mixer shall not exceed that which will permit complete mixing of the materials. Dead areas in the mixer, where material does not move or is not sufficiently agitated, shall be corrected by a reduction in the volume of material or by other adjustments. The mixer shall be designed to provide sufficient mixing action and movement to produce properly mixed RSC. Mixing shall continue until a homogeneous mixture is produced at discharge from the mixer. There shall be no lumps or evidence of non-dispersed cement at discharge from the mixer. No water shall be added to the RSC after discharge from the mixer.

Equipment having components made of aluminum or magnesium alloys, which may have contact with plastic concrete during mixing or transporting of RSC, shall not be used.

Ice shall not be used to cool RSC directly. When ice is used to cool water used in the mix, all of the ice shall be melted before entering the mixer.

Cement shall be proportioned and charged into the mixer by means that will result in no losses of cement due to wind, or due to accumulation on equipment, or other conditions which will vary the required quantity of cement.

Each mixer shall have a metal plate or plates, prominently attached, on which the following information is provided:

1. Uses for which the equipment is designed.

2. Manufacturer's guaranteed capacity of the mixer in terms of the volume of mixed concrete.
3. Speed of rotation of the mixer.

Consistency and workability of mixed concrete when discharged at the delivery point shall be suitable for placement and consolidation.

SPREADING, COMPACTING AND SHAPING

Metal or wood side forms may be used. Wood side forms shall not be less than 1-1/2 inches thick. Side forms shall be of sufficient rigidity, both in the form and in the connection with adjoining forms that movement will not occur under the force from sub-grading and paving equipment or from the pressure of concrete.

Side forms shall remain in place until the pavement edge no longer requires the protection of forms. Side forms shall be thoroughly cleaned and oiled prior to each use.

Consolidation of RSC shall be by means of high-frequency internal vibrators after the RSC is deposited on the subgrade. Vibrating shall be done in a manner to assure uniform consolidation adjacent to forms and across the full paving width. RSC shall be placed as nearly as possible in its final position and use of vibrators for extensive shifting of the weight of RSC will not be permitted.

RSC shall be spread and shaped by suitable powered finishing machines and supplemented by hand finishing as necessary. Methods of spreading, shaping and consolidating that result in segregation, voids or rock pockets shall be discontinued. The Contractor shall use methods that will produce dense homogeneous pavement conforming to the required cross section.

After the RSC has been mixed and placed, no additional water shall be added to the surface to facilitate finishing. Surface finishing additives, when used, shall be as recommended by the manufacturer of the cement and shall be approved by the Engineer prior to use.

JOINTS

Prior to placing concrete against existing concrete, a 1/4-inch thick commercial quality polyethylene flexible foam expansion joint filler shall be placed across the original transverse and longitudinal joint faces and extend the full depth of the excavation. The top of the joint filler shall be placed flush with the top of pavement. Joint filler shall be secured to the joint face of the existing pavement by a method that will hold the joint filler in place during the placement of concrete.

Transverse weakened plane joints shall be constructed to match the spacing and skew of the weakened plane joints in the adjacent existing pavement. Where the existing transverse weakened plane joint spacing in an adjacent lane exceeds 15 feet, an additional transverse weakened plane joint shall be constructed midway between the existing joints. The provisions in the second and third paragraphs in Section 40-1.08B, "Weakened Plane Joints" and the third paragraph in Section 40-1.08B(1), "Sawing Method" of the Standard Specifications shall not apply. Sawing of weakened plane joints

shall be completed within 2 hours of completion of final finishing. Minimum depth of cut for weakened plane joints shall be 1/3 the slab depth.

REINFORCEMENT

Reinforcement shall be low-alloy steel deformed bars conforming to the requirements in ASTM Designation: A 706/A 706M in Section 52, "Reinforcement" of the Standard Specifications.

INSTALL KEYWAY

Keyway on the replaced slab shall be installed as shown on the plans.

FINAL FINISHING

Tests to determine coefficient of friction of the final textured surface will be made only if the Engineer determines by visual inspection that the final texturing may not have produced a surface having the specified coefficient of friction. Any tests to determine the coefficient of friction will be made after the pavement is opened to public traffic, but not later than 5 days after concrete placement. Pavement areas having a coefficient of friction as determined in conformance with the requirements in California Test 342 of less than 0.30 shall be grooved in conformance with the provisions in Section 42-1.02, "Construction" of the Standard Specifications. Grooving shall be performed with a steel-tined device to form grooves from 1/8 to 3/16 inch deep after the concrete has hardened. Tines shall be from 3/32 to 1/8 inch wide on 3/4-inch center and shall have enough length, thickness, and resilience to form the required grooves.

Transverse straightedge and longitudinal straightedge requirements will not apply to the pavement surface within 12 inches of the existing concrete pavement except as required in these Special Provisions. Longitudinal straightedge requirements in Section 40-1.10, "Final Finishing" of the Standard Specifications, shall be applied at transverse contact joints with existing concrete pavement where the straightedge is to be placed with the midpoint coincident with the joints. Pavement not meeting this straightedge requirement shall be corrected within 48 hours by grinding or other methods as approved by the Engineer.

Profiles of the completed pavement surface specified in Section 40-1.10, "Final Finishing" of the Standard Specifications will not be required. The Profile Index requirements in Section 40-1.10, "Final Finishing" of the Standard Specifications shall not apply.

CURING METHOD

The curing method for replaced slab shall be as recommended by the manufacturer of the cement and as approved by the Engineer.

NONCOMPLIANT SLAB REPLACEMENT

RSC slab shall be replaced, at Contractor's expense, when any of the following condition exists:

1. One or more full-depth cracks
2. Concrete raveling
3. Noncompliant modulus of rupture

If the modulus of rupture at opening age is at least 400 pounds per square inch (psi) and the modulus of rupture at 3 days is at least 500 psi but less than 600 psi, the RSC slab may remain in place and the following deduction to the individual replaced slab shall apply.

1. RSC slab with modulus of rupture of 400 psi or greater at opening age and 3-day modulus of rupture of 500 psi or greater but less than 550 psi will be paid for at 90 percent of the contract price per cubic yard for individual replaced RSC slab.

2. RSC slab with modulus of rupture of 400 psi or greater at opening age and 3-day modulus of rupture of 550 psi or greater but less than 600 psi will be paid for at 95 percent of the contract price per cubic yard for individual replaced RSC slab.

3. RSC slab with modulus of rupture of less than 400 psi at opening age will be removed and replaced at the Contractor's expense with RSC conforming to the requirements of these Special Provisions.

MEASUREMENT AND PAYMENT

Slab Replacement with Rapid Strength Concrete will be measured and paid for in the same manner specified for concrete pavement in Sections 40-1.13, "Measurement" and 40-1.14, "Payment" of the Standard Specifications (per Cubic Yard), and these Special Provisions.

Slab Replacement with Rapid Strength Concrete payments will be subject to the pay factor values described in "Noncompliant Slab Replacement" of these Special Provisions.

The provisions in Section 40-1.135, "Pavement Thickness" of the Standard Specifications shall not apply.

Full compensation for constructing trial slabs, furnishing and placing bond breaker, placing keyway, grooving, and quality control sampling and testing, shall be considered as included in the contract price paid per cubic yard for Slab Replacement with Rapid Strength Concrete, and no additional compensation will be allowed therefor.

Full compensation for furnishing and installing #5 bars at 12" on center shall be considered as included in the contract price paid per cubic yard for Slab Replacement with Rapid Strength Concrete, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in placing reinforcing bars as shown on the plans, as specified in the Standard Specifications, and these Special Provisions, and as directed by the Engineer.

Full compensation for seal pavement joint shall be considered as included in the contract price paid per cubic yard for Slab Replacement with Rapid Strength Concrete, and shall include full compensation for furnishing all labor, materials, tools, equipment, and

incidentals and for doing all the work involved in sealing and filling pavement joints complete in place, including sawing, cleaning and preparing the joints in the concrete pavement, repairing and patching spalled or raveled sawed joints, and replacing or repairing rejected joints, as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer.

MODIFICATIONS / CLARIFICATIONS TO PLANS

Item 12: Standard Drawings

Following Standard drawings are being provided as Attachment "B" to this addendum.

- County of Riverside Standard (CRS 302)
- APWA Standard 606-3
- APWA Standard 640-3
- County of Riverside Building Department Retaining Wall Standards

See Attachment "B"

Item 13: Construction Note (Sheet L-5)

Refer to plan sheet L-5, delete construction note 52 and replace with 52A
"CONSTRUCT DIP SECTION PER STD NO. 307, MODIFIED 10" THICK RAPID STRENGTH CONCRETE WITH #5 BARS AT 12" O.C. LENGTH AND WIDTH AS SHOWN.

Item 14: Plan sheet revisions

The following three plan sheets are deleted and replaced with revised sheets.

1. **Plan Sheet L-5 (8 of 24)**
2. **Plan sheet C-1 (13 of 24)**
3. **Plan sheet C-2 (14 of 24)**
    - Approximate Location of sewer laterals and underground utilities are added
    - Construction Note 60 is revised to include "Two Grates-Perpendicular to the flow of Traffic"
    - Construction Note 32 is deleted and 32A is added
    - Construction Note 37 is deleted
4. **Plan Sheet C-3 (15 of 24)**
    Retaining Wall length is added
    Construction Note 72 is deleted
    Construction Note 32 is deleted and 32A is added

See Attachment "C"

Note: All revised plan sheets are posted on following website and available for download during the advertisement period.
http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

This addendum has been prepared under the direction of the following registered Civil Engineer(s):

1-29-15

Michael O. Mueting, P.E.

Concurrence:

Khalid Nasim, P.E.
Engineering Division Manager

Acknowledged: _____ Date: _____
(Contractor)

JRJ:jrj:sb

Note: Refer to Section 8, "Addenda" (page A4). Submission of all addendum pages and non-bidding document attachments of addendum are not necessary for Bid submittal. Submittal of **only this** acknowledgement page is adequate for Bid reception. Bidders are reminded to list addendum number(s) received on the first page (B1) of the Bid form (Proposal).

Grand Avenue
Resurfacing and Widening Project
Corydon Road to Bonnie Lea Drive
Community of Lakeland Village
Project No. C4-0074

PROPOSAL (REVISED)

Base Bid

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
1	066102	DUST ABATEMENT	LS	1		
2	074020	WATER POLLUTION CONTROL	LS	1		
3	120100	TRAFFIC CONTROL SYSTEM	LS	1		
4	160101	CLEARING AND GRUBBING	LS	1		
5	220101	FINISHING ROADWAY	LS	1		
6	015602	FUNDING AWARENESS SIGN	EA	2		
7	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4		
8	066237	REMOVE TREES	EA	11		
9	160121	REMOVE TREE STUMP	EA	4		
10	152438	ADJUST FRAME AND COVER TO GRADE	EA	1		
11	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	97,700		
12	011506	WEDGE PLANE ASPHALT CONCRETE	LF	12,100		
13	190101	ROADWAY EXCAVATION	CY	3,220		
14	190185	SHOULDER BACKING	LF	28,300		
15	260201	CLASS 2 AGGREGATE BASE	CY	1,830		
16	390130	HOT MIX ASPHALT	TON	18,290		
17	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	14,660		
18	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	TON	590		
19	013903	PLACE ASPHALT CONCRETE DIKE (CRS 212) (6")	LF	1,600		
20	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	LF	1,250		
21	013902	ASPHALT CONCRETE OVERSIDE DRAIN (CRS 306)	EA	2		
22	017304	MINOR CONCRETE (CURB AND GUTTER) (CRS 200)	LF	200		
23	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	1,820		
24	017310	MINOR CONCRETE (DRIVEWAY APPROACH) (CRS 207)	SQFT	2,400		
25	017303	MINOR CONCRETE (SPANDREL) (CRS 209)	SQFT	4,800		
26	017302	MINOR CONCRETE (CROSS-GUTTER) (CRS 209)	SQFT	520		

Base Bid (Continued)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
27	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	7,200		
28	731516	MINOR CONCRETE (DRIVEWAY)	SQFT	3,070		
29	731521	MINOR CONCRETE (SIDEWALK)	SQFT	6,250		
30	731501	MINOR CONCRETE (MONOLITHIC CURB)	LF	475		
31	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	10		
32	017316	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE B)	EA	12		
33	731623	MINOR CONCRETE (CURB RAMP)	EA	8		
34	017005	CATCH BASIN (COMBINATION INLET) (CRS 302)	EA	3		
35	011503	UNDER SIDEWALK DRAIN CAST IN PLACE (CRS 309)	EA	1		
36	719530	CURB DRAIN	EA	3		
37	650018	24" REINFORCED CONCRETE PIPE	LF	100		
38	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	50		
39	820151	OBJECT MARKER (TYPE L-1)	EA	54		
40	151281	SALVAGE ROADSIDE SIGN	EA	54		
41	000003	REPLACE WOOD POST WITH NEW STEEL POST	EA	28		
42	566011	ROADSIDE SIGN - ONE POST	EA	176		
43	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	4,700		
44	840656	PAINT TRAFFIC STRIPE (2-COAT)	LF	68,000		
45	597401	PAINT CURB RED (2-COAT)	LF	200		
46	850102	PAVEMENT MARKER (REFLECTIVE)	EA	2,700		
47	860811	DETECTOR LOOP	EA	38		
48	010602	MISCELLANEOUS WORK (AS DIRECTED)	FA	1	**380,000.00**	**380,000.00**
48.1	511123	CONCRETE (RAPID SETTING)	CY	100		
48.2	510501	MINOR CONCRETE [STAIRS, APWA 640-3, TYPE B]	SQFT	190		
48.3	510501	MINOR CONCRETE [RAMP & LANDING, APWA 640-3, TYPE B]	SQFT	1,830		
48.4	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=3', LEVEL]	LF	226		
48.5	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 2, H=3', SLOPE]	LF	65		
48.6	510530	MINOR CONCRETE (WALL) [RIV CO STD RET WALL, TYPE 1, H=5', LEVEL]	LF	95		
48.7	833000	METAL RAILING [APWA 606-3, TYPE A (TWO RAILS)]	LF	500		
48.8	802520	6' CHAIN LINK GATE (TYPE CL-6)	LF	35		

BASE BID

SUB-TOTAL: _____ $_____

ITEMS 1-48.8 "WORDS"

PROPOSAL (REVISED)

Alternate Bid Schedule 1 (City of Lake Elsinore)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
49	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	4,600		
50	011506	WEDGE PLANE ASPHALT CONCRETE	LF	1,590		
51	390130	HOT MIX ASPHALT	TON	790		
52	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	690		
53	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	107		
54	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	6		

ALT BID SCH.1

SUB-TOTAL: _____ $_____

ITEMS 49-54 "WORDS"

Alternate Bid Schedule 2 (City of Wildomar)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
55	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	9,000		
56	190101	ROADWAY EXCAVATION	CY	40		
57	190185	SHOULDER BACKING	LF	620		
58	260201	CLASS 2 AGGREGATE BASE	CY	20		
59	390130	HOT MIX ASPHALT	TON	200		
60	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	180		
61	017314	MINOR CONCRETE (DIP SECTION) (CRS 307)	SQFT	2,000		

ALT BID SCH. 2

SUB-TOTAL: _____ $_____

ITEMS 55-61 "WORDS"

Alternate Bid Schedule 3 (Utility Adjustments)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
62	152440	ADJUST MANHOLE TO GRADE (GTE/VERIZON)	EA	26		
63	152440	ADJUST MANHOLE TO GRADE (TIME WARNER TELECOM)	EA	4		
64	152440	ADJUST MANHOLE TO GRADE (LEVEL 3)	EA	4		
65	152440	ADJUST MANHOLE TO GRADE (SEWER)	EA	71		

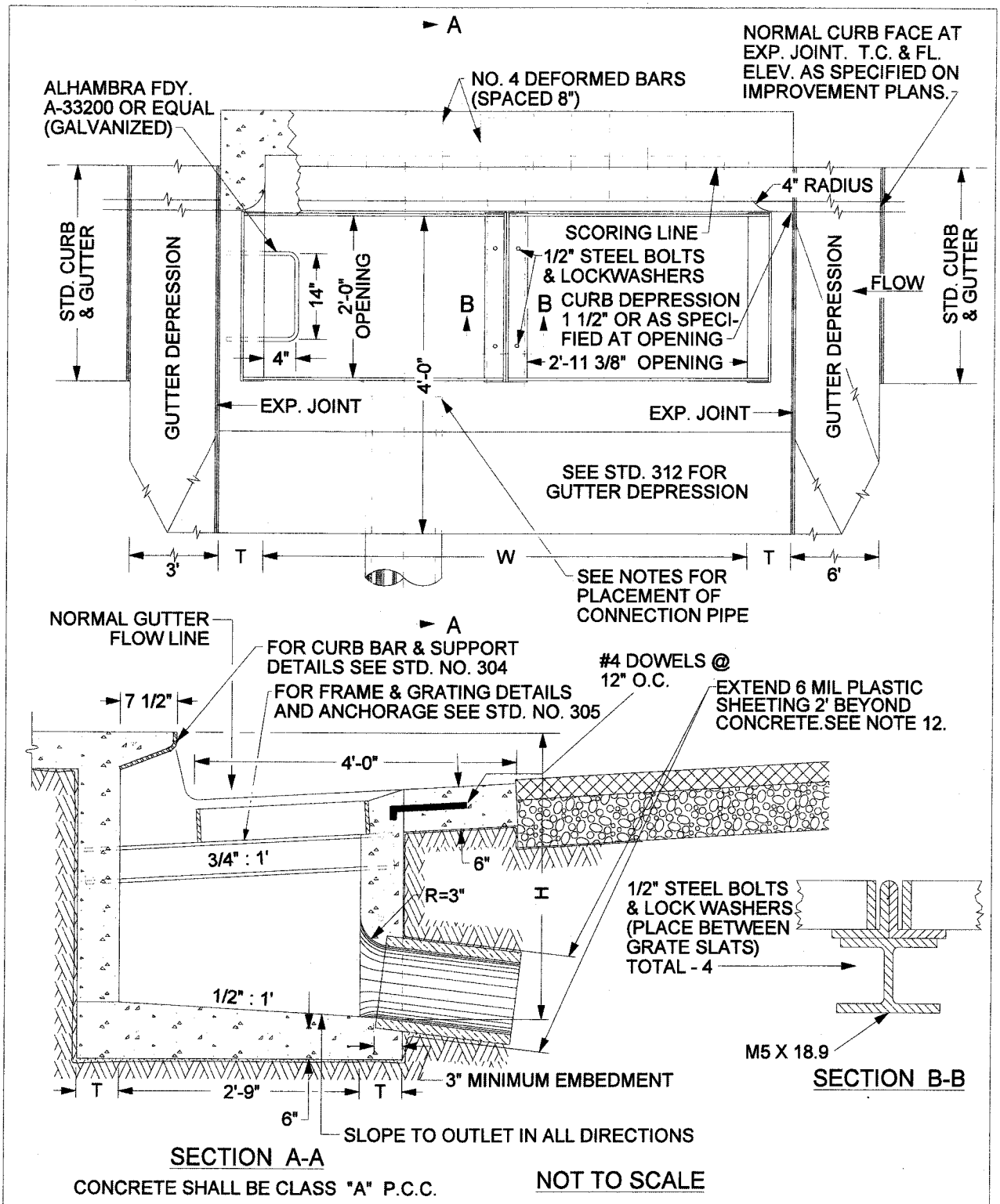
ALT BID SCH. 3

SUB-TOTAL: _____ $_____

ITEMS 62-65 "WORDS"

PROJECT TOTAL: _____ $_____

ITEMS 1-65 "WORDS"



APPROVED BY:

DATE: 05/01/07

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

REGISTERED PROFESSIONAL ENGINEER — GEORGE A. JOHNSON — No. CE 42328 Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

COMBINATION INLET CATCH BASIN NO. 2

STANDARD NO. 302 (1 OF 2)

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-24-71, 9-88	1				4			
11-04	2				5			
	3				6			

NOTES:

1. BASIN SHALL HAVE ONE GRATING UNLESS OTHERWISE SPECIFIED ON IMPROVEMENT PLANS.
2. CONCRETE SHALL BE CLASS "A". WHEN THE BASIN IS TO BE CONSTRUCTED WITHIN THE LIMITS OF A PROPOSED SIDEWALK, OR IS CONTIGUOUS TO SUCH A SIDEWALK, THE TOP OF THE BASIN SHALL BE POURED MONOLITHIC WITH THE SIDEWALK, USING CLASS "A" CONCRETE IN THE SIDEWALK. THE TOP OF THE CATCH BASIN SHALL BE FINISHED PER SIDEWALK STANDARDS.
3. CONNECTION PIPES MAY BE PLACED IN ANY POSITION AROUND THE WALLS, PROVIDED THEY POINT IN THE PROPER DIRECTION AND THE POSITION IS OTHERWISE CONSISTENT WITH THE IMPROVEMENT PLAN.
4. CURVATURE OF THE END-WALLS AT CURB OPENING SHALL BE FORMED BY CURVED FORMS AND SHALL NOT BE MADE BY PLASTERING.
5. DIMENSIONS:
   GRATE SHALL BE PARALLEL TO PLANE OF GUTTER SLOPE 3/4" TO 1'-0".
   T = 6 INCHES IF H IS 8 FEET OR LESS.
   T = 8 INCHES IF H IS GREATER THAN 8 FEET AND LESS THAN 20 FEET.
   H = 3 FEET 6 INCHES, UNLESS OTHERWISE SPECIFIED ON IMPROVEMENT PLANS.
   W = 2 FEET 11 3/8 INCHES FOR ONE GRATING. ADD 3 FEET 5 3/8 INCHES FOR EACH ADDITIONAL GRATING.
6. EXPOSED SURFACES OF THE CATCH BASIN SHALL CONFORM IN SLOPE, GRADE, COLOR, FINISH AND SCORING TO EXISTING IMPROVEMENTS ADJACENT TO THE BASIN. WHERE NO SIDEWALK EXISTS, THE TOP SHALL BE FINISHED TO CONFORM TO STANDARD SIDEWALK SLOPE AND FINISH. WHERE NO CURB EXISTS, THE BATTER OF EXPOSED END WALLS ABOVE THE STREET SURFACE SHALL CONFORM TO BATTER FOR STANDARD CURB.
7. FLOOR OF BASIN SHALL BE GIVEN A STEEL - TROWELLED FINISH.
8. OUTLET PIPE SHALL BE TRIMMED TO THE FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.
9. REINFORCING STEEL SHALL BE NO. 4 DEFORMED BARS. CLEARANCE SHALL BE 1 1/2 INCHES FROM INSIDE OF BOX. SPACING IS AS SHOWN IN TOP SLAB AND AT 18 INCH CENTERS IN SIDES OF BOX.
10. SLOPE OF FLOOR PARALLEL WITH CURB SHALL BE 1 IN 12 UNLESS OTHERWISE SPECIFIED. SLOPE FLOOR FROM ALL DIRECTIONS TO THE OUTLET.
11. STEPS: 3/4 INCH PLAIN ROUND GALVANIZED STEEL STEPS (ALHAMBRA FDY. A-3320 OR EQUAL) ARE REQUIRED AS FOLLOWS:
    IF H IS 3.5 FEET OR LESS, NO STEPS ARE REQUIRED.
    IF H IS MORE THAN 3.5 FEET, AND NOT MORE THAN 5.0 FEET, INSTALL ONE STEP 16" ABOVE FLOOR OF BASIN.
    IF H IS MORE THAN 5.0 FEET, INSTALL STEPS 12 INCHES APART, WITH THE TOP STEP 6" BELOW THE TOP OF GRATING.
    ALL STEPS SHALL BE 4 INCHES CLEAR FROM THE WALL EXCEPT THE TOP STEP, WHICH SHALL BE 2 1/2 INCHES (CLEAR) FROM THE WALL AND ANCHORED NOT LESS THAN 5 INCHES IN WALL OF BASIN.
12. WHEN ABUTTING SOIL HAS A HIGH SULFATE CONTENT, SPECIAL CONSIDERATIONS ARE REQUIRED. SEE SPECIFICATIONS (SECTION 16.04).
13. GRATE SHALL BE HOT DIPPED GALVANIZED.

APPROVED BY:

George A. Johnson DATE: 05/01/07

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

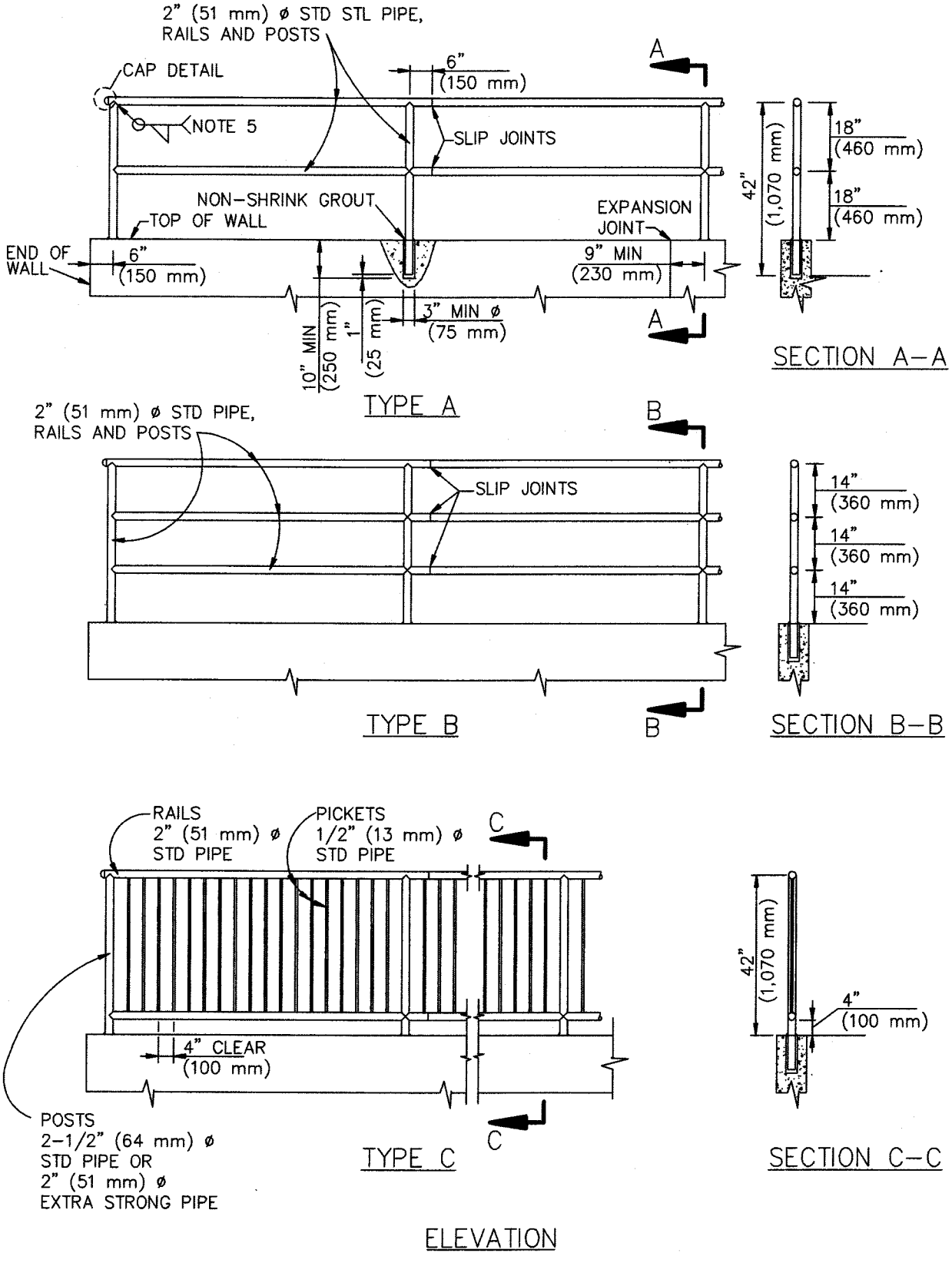
REGISTERED PROFESSIONAL ENGINEER GEORGE A. JOHNSON No. CE 42328 Exp. 3-31-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

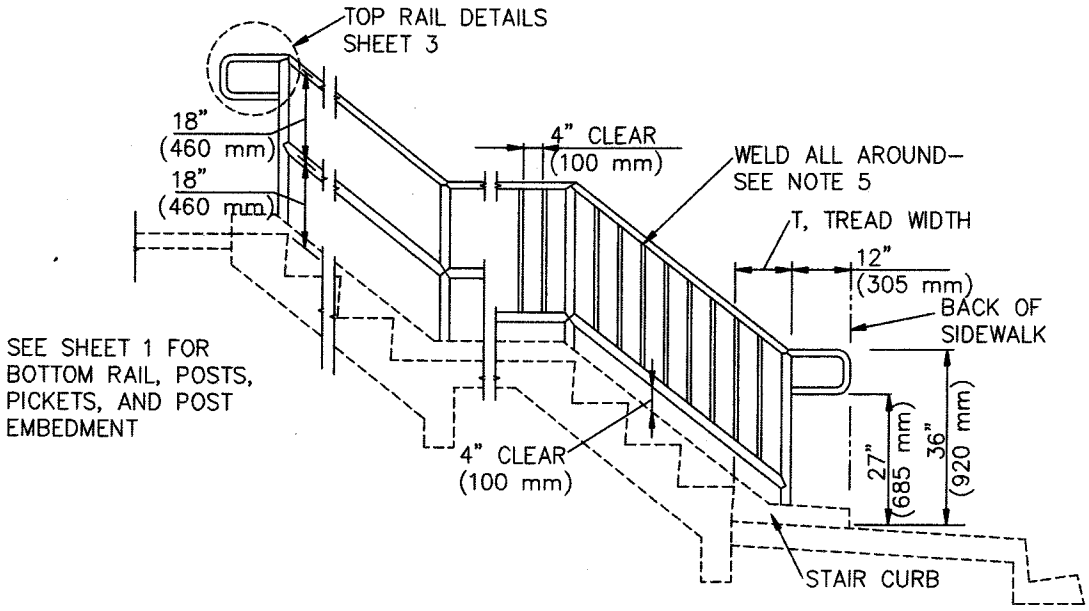
COMBINATION INLET CATCH BASIN SPECIFICATIONS

STANDARD NO. 302 (2 OF 2)

REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-71, 11-04		1				4			
		2				5			
		3				6			

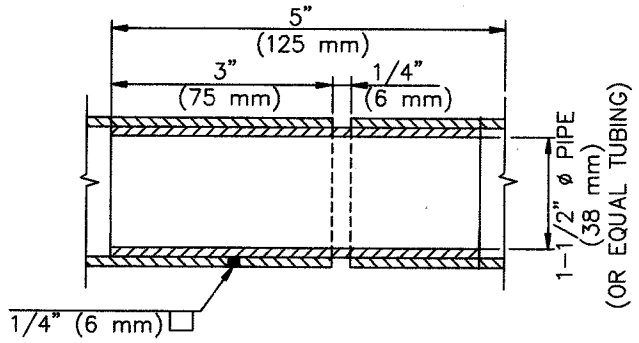


STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1993 REV. 1996, 2005, 2009	**METAL HAND RAILINGS**	STANDARD PLAN **606-3**
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 3

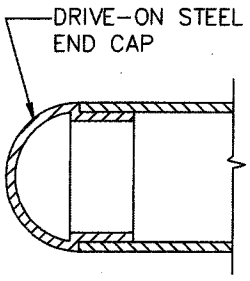


TYPE A TYPE C

HANDRAIL INSTALLATION ON STAIRWAYS



SLIP JOINT DETAIL

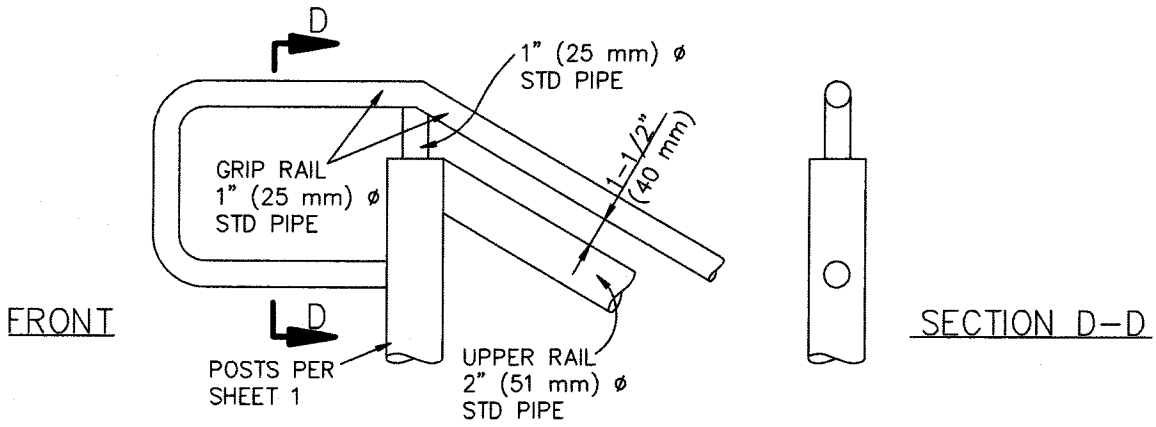


CAP DETAIL FOR RAIL END

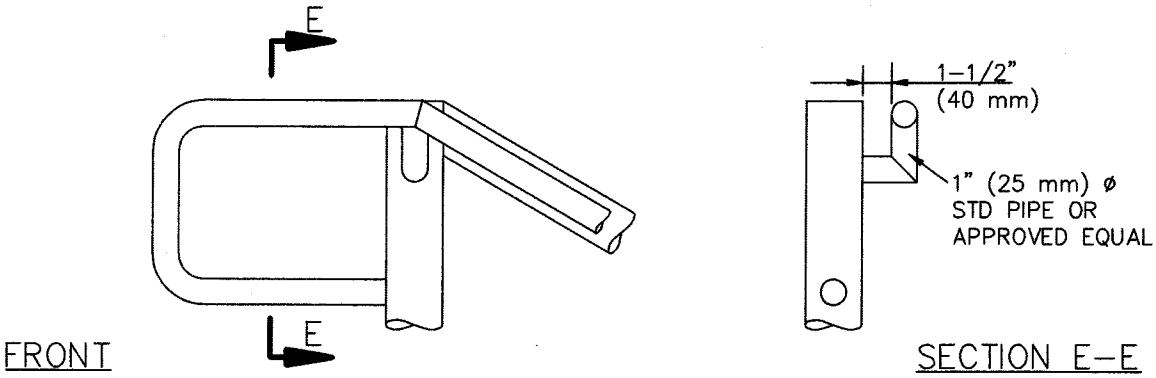
NOTES:

1. USE TYPE C WHERE ADJACENT GRADE IS MORE THAN 2'–6" (760 mm) BELOW LANDING OR SIDEWALK FINISHED SURFACE.
2. RAILS, POSTS, AND PICKETS SHALL BE GALVANIZED STEEL PIPE.
3. PROVIDE SLIP JOINTS AT STAIRWAY EXPANSION JOINTS, 24' (7.3 m) MAXIMUM.
4. MAXIMUM SPACING OF POSTS SHALL BE 8'–0" (2.44 m) ON STRAIGHT ALIGNMENTS, AND 6'–0" (1.83 m) ON CURVED ALIGNMENTS WITH LESS THAN 30' (9.1 m) RADIUS. MAKE SPACING UNIFORM BETWEEN CHANGES IN ALIGNMENT.
5. WELDS SHALL BE SLOT OR FILLET WELDS EQUAL TO THICKNESS OF PIPE. WELD ALL JOINTS ALL AROUND.

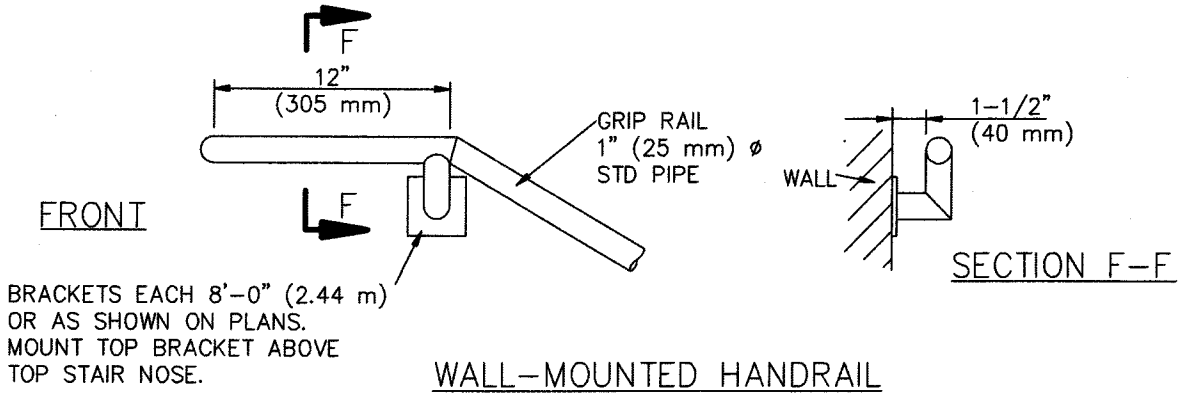
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
METAL HAND RAILINGS	**606–3**
	SHEET 2 OF 3



TOP RAIL TYPE 1

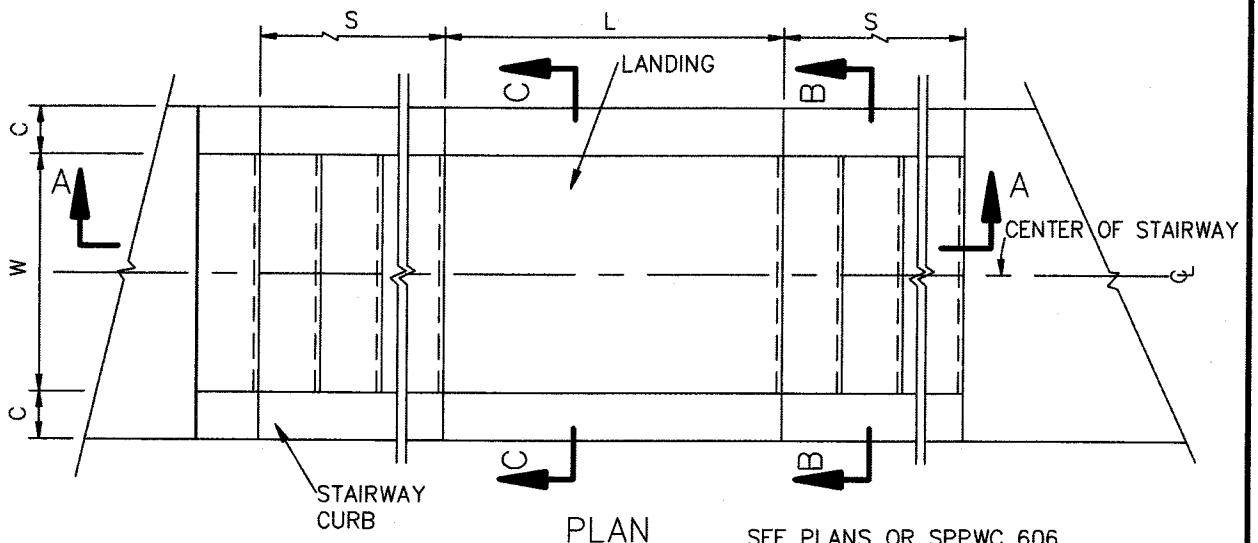


TOP RAIL TYPE 2



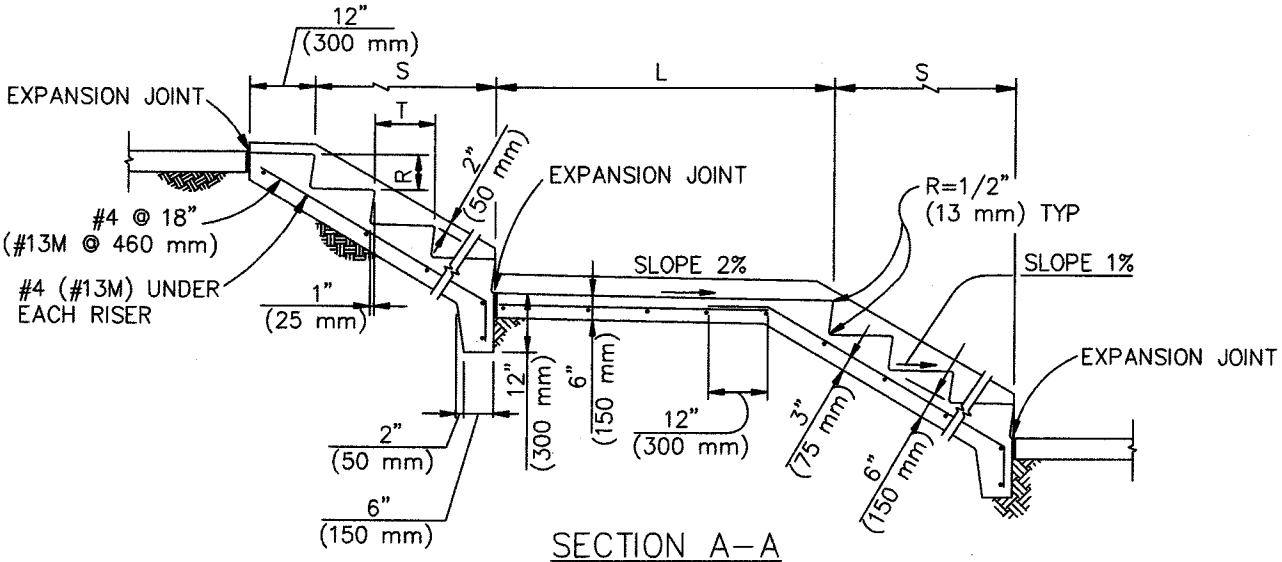
WALL-MOUNTED HANDRAIL

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
METAL HAND RAILINGS	**606-3**
	SHEET 3 OF 3

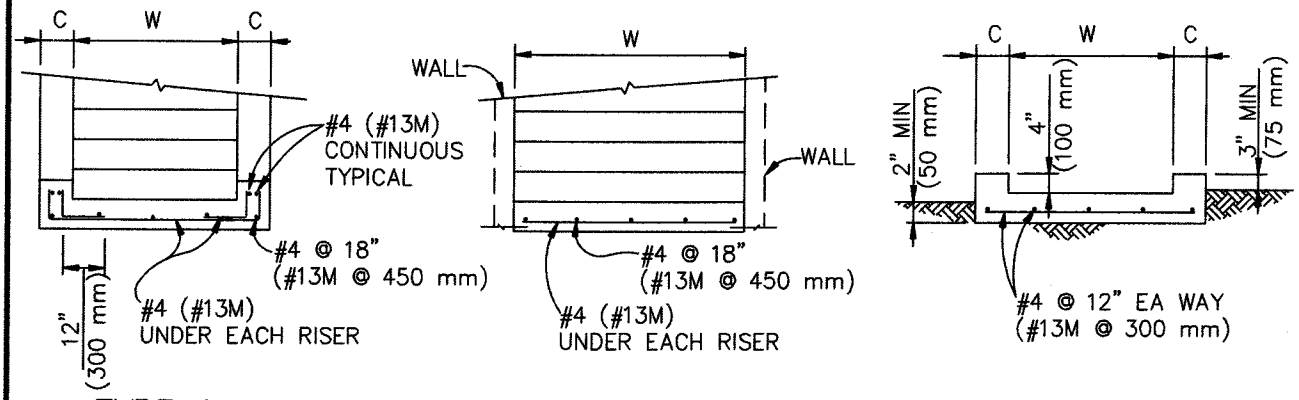


PLAN

SEE PLANS OR SPPWC 606
FOR HANDRAIL DETAILS.



SECTION A–A



TYPE A

TYPE B

SECTION B–B

SECTION C–C

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1993 REV. 1996, 2005, 2009	**REINFORCED CONCRETE STAIRWAY**	STANDARD PLAN **640–3**
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES:

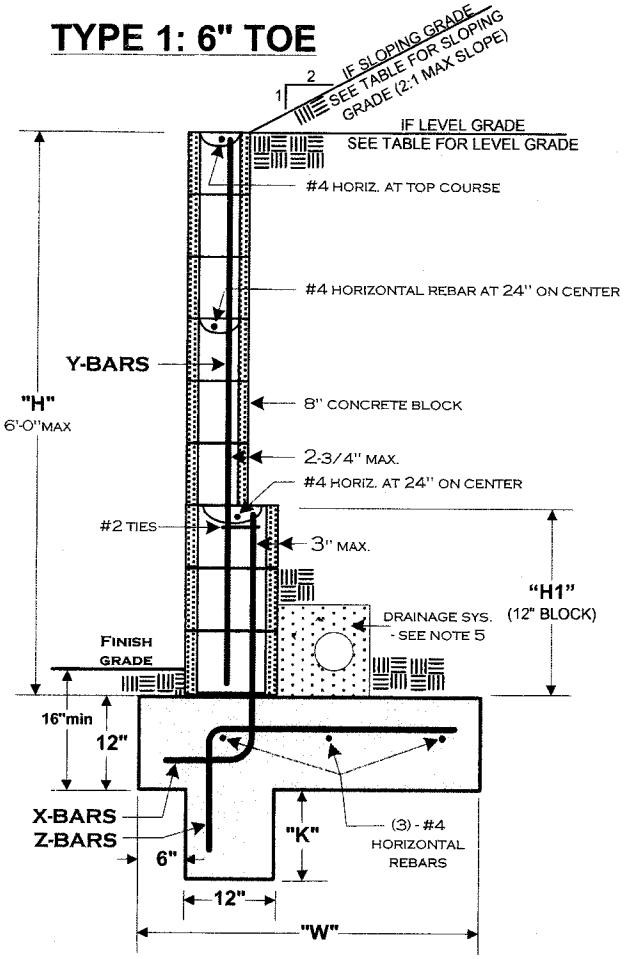
1. SEE THE PLANS FOR THE FOLLOWING INFORMATION:
   TYPE OF STAIRWAY AND LOCATION
   W = WIDTH OF STAIRWAY
   L = LENGTH OF LANDINGS
   T = LENGTH OF TREAD
   R = HEIGHT OF RISER
   C = WIDTH OF CURB
   S = LENGTH OF STAIRWAY FLIGHT

2. CONCRETE FINISH FOR EXPOSED SURFACES SHALL BE CLASS I, EXCEPT THAT TREADS AND LANDINGS SHALL BE TROWELLED SMOOTH AND GIVEN A FINE BROOM FINISH IN A DIRECTION PERPENDICULAR TO THE CENTERLINE OF THE STAIRWAY. THE BROOM FINISH SHALL BE BROUGHT TO THE NOSE OF THE TREADS AND LANDINGS.

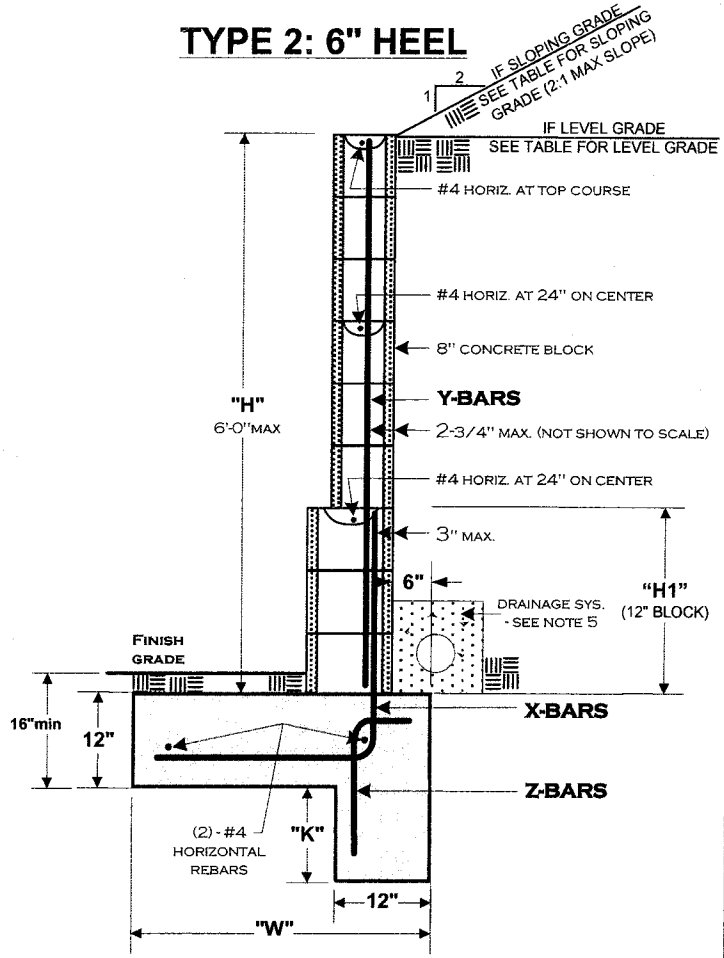
3. ONE HANDRAIL IS REQUIRED FOR STAIRWAYS 4' (1.22 m) WIDE OR LESS. TWO HANDRAILS ARE REQUIRED FOR WIDER STAIRWAYS.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
REINFORCED CONCRETE STAIRWAY	**640–3**
	SHEET 2 OF 2

TYPE 1: 6" TOE



TYPE 2: 6" HEEL



TYPE 1: 6" TOE							
GRADE CONDITION	"H" (WALL HEIGHT)	"H1" (12" BLOCK)	"W" (FOOTING WIDTH)	X BARS	Y BARS	ZBARS	"K" (KEY DEPTH)
SLOPING GRADE AT TOP OF WALL (2:1 MAX)	5'- 1" to 6'- 0"	24"	69"	#4 @ 16"	#4 @ 32"	#4 @ 11"	30"
	4'- 1" to 5'- 0"	N/R	48"	#4 @ 16"	#4 @ 16"	#4 @ 12"	25"
	3'- 1" to 4'- 0"	N/R	30"	#4 @ 32"	#4 @ 32"	#4 @ 32"	16"
	Up to 3'- 0"	N/R	18"	#4 @ 32"	#4 @ 32"	#4 @ 32"	8"
LEVEL GRADE AT TOP OF WALL	5'- 1" to 6'- 0"	24"	45"	#4 @ 24"	#4 @ 32"	#4 @ 24"	8"
	4'- 1" to 5'- 0"	N/R	36"	#4 @ 24"	#4 @ 24"	#4 @ 24"	7"
	3'- 1" to 4'- 0"	N/R	24"	#4 @ 32"	#4 @ 32"	#4 @ 32"	5"
	Up to 3'- 0"	N/R	21"	#4 @ 32"	#4 @ 32"	#4 @ 32"	N/R

TYPE 2: 6" HEEL							
GRADE CONDITION	"H" (WALL HEIGHT)	"H1" (12" BLOCK)	"W" (FOOTING WIDTH)	X BARS	Y BARS	ZBARS	"K" (KEY DEPTH)
SLOPING GRADE AT TOP OF WALL (2:1 MAX)	5'- 1" to 6'- 0"	24"	39"	#4 @ 16"	#4 @ 32"	#4 @ 12"	28"
	4'- 1" to 5'- 0"	N/R	29"	#4 @ 16"	#4 @ 16"	#4 @ 12"	22"
	3'- 1" to 4'- 0"	N/R	24"	#4 @ 32"	#4 @ 32"	#4 @ 32"	15"
	Up to 3'- 0"	N/R	18"	#4 @ 32"	#4 @ 32"	#4 @ 32"	8"
LEVEL GRADE AT TOP OF WALL	5'- 1" to 6'- 0"	24"	33"	#4 @ 24"	#4 @ 32"	#4 @ 24"	18"
	4'- 1" to 5'- 0"	N/R	26"	#4 @ 24"	#4 @ 24"	#4 @ 24"	13"
	3'- 1" to 4'- 0"	N/R	20"	#4 @ 32"	#4 @ 32"	#4 @ 32"	7"
	Up to 3'- 0"	N/R	20"	#4 @ 32"	#4 @ 32"	#4 @ 32"	N/R

N/R = NOT REQUIRED

SEE PAGE 2 FOR ADDITIONAL INFORMATION

DISCLAIMER:

ALTERNATE RETAINING WALL DESIGNS MAY BE POSSIBLE WHEN PROVIDED WITH AN ENGINEERED ANALYSIS. USE OF THIS STANDARD DESIGN IS AT THE USER'S RISK AND CARRIES NO IMPLIED OR INFERRED GUARANTEE AGAINST FAILURE OR DEFECTS.

WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM

COUNTY OF RIVERSIDE BUILDING DEPARTMENT

RETAINING WALLS

(951) 955-1800

4080 LEMON ST, 2ND FL * P.O. BOX 1629 * RIVERSIDE, CA 92501

FAX (951) 955-1806

GENERAL NOTES:

1) ALL WORK SHALL CONFORM TO THE ADOPTED CODES AND ZONING REGULATIONS.

2) CONCRETE BLOCK MASONRY SHALL COMPLY WITH THE FOLLOWING:
   A. CONCRETE MASONRY SHALL CONFORM TO ASTM C-90, GRADE - N.
   B. MORTAR: TYPE M OR S.
   C. GROUT ALL CELLS W/2000 PSI PORTLAND CEMENT GROUT.

3) THE ULTIMATE COMPRESSIVE STRENGTH REQUIRED FOR FOUNDATION CONCRETE SHALL BE 2500 PSI.

4) ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE ASTM A615-40 AND OVERLAP SPLICES SHALL BE 40 BAR DIAMETERS MINIMUM. ALL REBAR HOOKS SHALL BE A MINIMUM OF 12 TIMES THE REBAR DIAMETER (12bd) IN LENGTH.

5) PROVIDE RETAINING WALL DRAINAGE SYSTEM AS FOLLOWS:
   PROVIDE 1CF/FT OF CLEAN COARSE GRAVEL WITH 4" DIAMETER PERFORATED PVC DRAINAGE PIPE WITH 1% GRADIENT TO DRAIN - OR OMIT HEAD JOINTS IN FIRST COURSE.

6) OPTIONAL: INSTALLATION OF A MOISTURE BARRIER ON THE FILL SIDE OF THE WALL WILL HELP TO PREVENT MOISTURE FROM PENETRATING THE VISIBLE SIDE OF THE WALL, RESULTING IN DISCOLORATION.

7) THIS RETAINING WALL STANDARD IS **NOT** DESIGNED TO SUPPORT SURCHARGE LOADS FROM MOTOR VEHICLES OR OTHER STRUCTURES.

8) CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POURS OVER 5 FEET IN HEIGHT. WHERE REQUIRED, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL BAR AND SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.

REQUIRED INSPECTIONS:

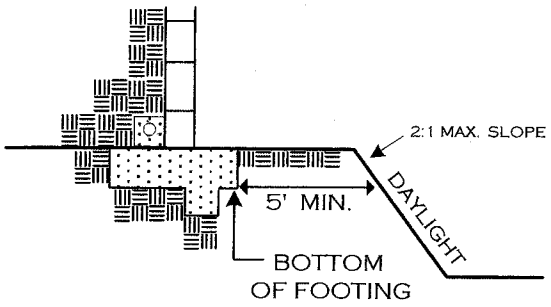
1) FOOTING;
   EXCAVATION TRENCH CLEAN WITH STEEL IN PLACE AND SUPPORTED 3" ABOVE AND AWAY FROM THE SURROUNDING EARTH/DIRT.

2) REBAR/PRE-GROUT AND DRAINAGE SYSTEM;
   BOND BEAM REBAR AND VERTICAL REBAR IN PLACE - INSPECTION PRIOR TO PLACING GROUT. DRAINAGE SYSTEM COMPLETE.

3) FINAL;
   AFTER GROUT IS PLACED AND BACKFILL COMPLETED - PRIOR TO ANY DECORATIVE CAP PLACEMENT.

SETBACK FROM TOP OF SLOPE:

ALL FOOTINGS ADJACENT TO SLOPES TO BE AT LEAST 5' TO DAYLIGHT AS SHOWN BELOW.



DESIGN PARAMETERS:

ACTIVE SOIL PRESSURE (PSF)	
LEVEL BACKFILL	= 30
SLOPING (2:1 MAX)	= 43
PASSIVE SOIL BEARING (PSF)	= 150
COEFFICIENT OF FRICTION	= 0.25
ALLOWABLE SOIL BEARING PRESSURE (PSF)	= 1500

(NO INCREASES TAKEN FOR DEPTH OR WIDTH OF FOOTING)

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ATTACHMENTS FILED

WITH

THE CLERK OF THE BOARD