

POWER EQUIPMENT OPERATORS, CRANES AND ATTACHMENTS, TUNNEL AND UNDERGROUND [These areas do not apply to Piledrivers and Steel Erectors]

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2 - MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY:

Area 1: Northernmost part

Area 2: Remainder

CALAVERAS COUNTY:

Area 1: Except Eastern part

Area 2: Eastern part

COLUSA COUNTY:

Area 1: Eastern part

Area 2: Remainder

DEL NORTE COUNTY:

Area 1: Extreme Southwestern corner

Area 2: Remainder

ELDORADO COUNTY:

Area 1: North Central part

Area 2: Remainder

FRESNO COUNTY

Area 1: Except Eastern part

Area 2: Eastern part

GLENN COUNTY:

Area 1: Eastern part

Area 2: Remainder

HUMBOLDT COUNTY:

Area 1: Except Eastern and Southwestern parts

Area 2: Remainder

LAKE COUNTY:

Area 1: Southern part

Area 2: Remainder

LASSEN COUNTY:

Area 1: Western part along the Southern portion of border with Shasta County

Area 2: Remainder

MADERA COUNTY

Area 1: Remainder  
Area 2: Eastern part

MARIPOSA COUNTY

Area 1: Remainder  
Area 2: Eastern part

MENDOCINO COUNTY:

Area 1: Central and Southeastern parts  
Area 2: Remainder

MONTEREY COUNTY

Area 1: Remainder  
Area 2: Southwestern part

NEVADA COUNTY:

Area 1: All but the Northern portion along the border of  
Sierra County  
Area 2: Remainder

PLACER COUNTY:

Area 1: All but the Central portion  
Area 2: Remainder

PLUMAS COUNTY:

Area 1: Western portion  
Area 2: Remainder

SHASTA COUNTY:

Area 1: All but the Northeastern corner  
Area 2: Remainder

SIERRA COUNTY:

Area 1: Western part  
Area 2: Remainder

SISKIYOU COUNTY:

Area 1: Central part  
Area 2: Remainder

SONOMA COUNTY:

Area 1: All but the Northwestern corner  
Area 2: Remainder

TEHAMA COUNTY:

Area 1: All but the Western border with Mendocino & Trinity  
Counties  
Area 2: Remainder

TRINITY COUNTY:

Area 1: East Central part and the Northeast border with  
Shasta County  
Area 2: Remainder

TULARE COUNTY;

Area 1: Remainder  
Area 2: Eastern part

TUOLUMNE COUNTY:  
 Area 1: Remainder  
 Area 2: Eastern Part

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 ENGI0003-019 06/29/2009

SEE AREA DESCRIPTIONS BELOW

	Rates	Fringes
OPERATOR: Power Equipment		
(LANDSCAPE WORK ONLY)		
GROUP 1		
AREA 1.....	\$ 28.64	20.53
AREA 2.....	\$ 30.64	20.53
GROUP 2		
AREA 1.....	\$ 25.04	20.53
AREA 2.....	\$ 27.04	20.53
GROUP 3		
AREA 1.....	\$ 20.43	20.53
AREA 2.....	\$ 22.43	20.53

GROUP DESCRIPTIONS:

GROUP 1: Landscape Finish Grade Operator: All finish grade work regardless of equipment used, and all equipment with a rating more than 65 HP.

GROUP 2: Landscape Operator up to 65 HP: All equipment with a manufacturer's rating of 65 HP or less except equipment covered by Group 1 or Group 3. The following equipment shall be included except when used for finish work as long as manufacturer's rating is 65 HP or less: A-Frame and Winch Truck, Backhoe, Forklift, Hydragraphic Seeder Machine, Roller, Rubber-Tired and Track Earthmoving Equipment, Skiploader, Straw Blowers, and Trencher 31 HP up to 65 HP.

GROUP 3: Landscae Utility Operator: Small Rubber-Tired Tractor, Trencher Under 31 HP.

AREA DESCRIPTIONS:

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

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Area 1: Northernmost part  
 Area 2: Remainder

CALAVERAS COUNTY:

Area 1: Except Eastern part

Area 2: Eastern part

COLUSA COUNTY:

Area 1: Eastern part

Area 2: Remainder

DEL NORTE COUNTY:

Area 1: Extreme Southwestern corner

Area 2: Remainder

ELDORADO COUNTY:

Area 1: North Central part

Area 2: Remainder

FRESNO COUNTY

Area 1: Except Eastern part

Area 2: Eastern part

GLENN COUNTY:

Area 1: Eastern part

Area 2: Remainder

HUMBOLDT COUNTY:

Area 1: Except Eastern and Southwestern parts

Area 2: Remainder

LAKE COUNTY:

Area 1: Southern part

Area 2: Remainder

LASSEN COUNTY:

Area 1: Western part along the Southern portion of border  
with Shasta County

Area 2: Remainder

MADERA COUNTY

Area 1: Remainder

Area 2: Eastern part

MARIPOSA COUNTY

Area 1: Remainder

Area 2: Eastern part

MENDOCINO COUNTY:

Area 1: Central and Southeastern parts

Area 2: Remainder

MONTEREY COUNTY

Area 1: Remainder

Area 2: Southwestern part

NEVADA COUNTY:

Area 1: All but the Northern portion along the border of  
Sierra County

Area 2: Remainder

PLACER COUNTY:

Area 1: All but the Central portion

Area 2: Remainder

PLUMAS COUNTY:

Area 1: Western portion

Area 2: Remainder

SHASTA COUNTY:

Area 1: All but the Northeastern corner

Area 2: Remainder

SIERRA COUNTY:

Area 1: Western part

Area 2: Remainder

SISKIYOU COUNTY:

Area 1: Central part

Area 2: Remainder

SONOMA COUNTY:

Area 1: All but the Northwestern corner

Area 2: Reaminder

TEHAMA COUNTY:

Area 1: All but the Western border with mendocino & Trinity Counties

Area 2: Remainder

TRINITY COUNTY:

Area 1: East Central part and the Northeaster border with Shasta County

Area 2: Remainder

TULARE COUNTY;

Area 1: Remainder

Area 2: Eastern part

TUOLUMNE COUNTY:

Area 1: Remainder

Area 2: Eastern Part

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IRON0002-004 07/01/2010

	Rates	Fringes
Ironworkers:		
Fence Erector.....	\$ 26.58	15.26
Ornamental, Reinforcing		
and Structural.....	\$ 33.00	23.73

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

\$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

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LABO0036-001 07/01/2007

SAN FRANCISCO AND SAN MATEO COUNTIES:

	Rates	Fringes
MASON TENDER, BRICK.....	\$ 26.93	16.50

FOOTNOTES: Underground work such as sewers, manholes, catch basins, sewer pipes, telephone conduits, tunnels and cut trenches: \$5.00 per day additional. Work in live sewage: \$2.50 per day additional.

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LABO0036-002 07/01/2007

SAN FRANCISCO AND SAN MATEO COUNTIES:

	Rates	Fringes
PLASTER TENDER.....	\$ 26.48	16.23

FOOTNOTES: Work on a suspended scaffold: \$5.00 per day additional. Work operating a plaster mixer pump gun: \$1.00 per hour additional.

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LABO0067-002 12/01/2008

AREA "A" - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES

AREA "B" - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENDOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YUBA COUNTIES

	Rates	Fringes
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Asbestos Removal Laborer

Areas A & B.....	\$ 18.08	6.60
LABORER (Lead Removal)		
Area A.....	\$ 34.15	6.11
Area B.....	\$ 33.15	6.11

ASBESTOS REMOVAL-SCOPE OF WORK: Site mobilization; initial site clean-up; site preparation; removal of asbestos-containing materials from walls and ceilings; or from pipes, boilers and mechanical systems only if they are being scrapped; encapsulation, enclosure and disposal of asbestos-containing materials by hand or with equipment or machinery; scaffolding; fabrication of temporary wooden barriers; and assembly of decontamination stations.

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LABO0067-003 07/01/2009

AREA A: ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO & SANTA CLARA

AREA B: ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SANCRCMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SIERRA, SHASTA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO & YUBA COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person		
Area A.....	\$ 26.89	14.93
Area B.....	\$ 25.89	14.93
Traffic Control Person I		
Area A.....	\$ 27.19	14.93
Area B.....	\$ 26.19	14.93
Traffic Control Person II		
Area A.....	\$ 24.69	14.93
Area B.....	\$ 23.69	14.93

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

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LABO0067-006 06/29/2009

AREA "A" - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES

AREA "B" - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, EL DORADO, FRESNO, GLENN, KINGS, LASSEN, MADERA, MARIPOSA, MERCED,

MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YUBA COUNTIES

	Rates	Fringes
Laborers: (CONSTRUCTION CRAFT		
LABORERS - AREA A:)		
Construction Specialist		
Group.....	\$ 27.84	14.93
GROUP 1.....	\$ 27.14	14.93
GROUP 1-a.....	\$ 27.36	14.93
GROUP 1-c.....	\$ 27.19	14.93
GROUP 1-e.....	\$ 27.69	14.93
GROUP 1-f.....	\$ 27.72	14.93
GROUP 1-g (Contra Costa County).....	\$ 27.34	14.93
GROUP 2.....	\$ 26.99	14.93
GROUP 3.....	\$ 26.89	14.93
GROUP 4.....	\$ 20.58	14.93
See groups 1-b and 1-d under laborer classifications.		
Laborers: (CONSTRUCTION CRAFT		
LABORERS - AREA B:)		
Construction Specialist		
Group.....	\$ 26.84	14.93
GROUP 1.....	\$ 26.14	14.93
GROUP 1-a.....	\$ 26.36	14.93
GROUP 1-c.....	\$ 26.19	14.93
GROUP 1-e.....	\$ 26.69	14.93
GROUP 1-f.....	\$ 26.72	14.93
GROUP 2.....	\$ 25.99	14.93
GROUP 3.....	\$ 25.89	14.93
GROUP 4.....	\$ 19.58	14.93
See groups 1-b and 1-d under laborer classifications.		
Laborers: (GUNITE - AREA A:)		
GROUP 1.....	\$ 28.10	14.93
GROUP 2.....	\$ 27.60	14.93
GROUP 3.....	\$ 27.01	14.93
GROUP 4.....	\$ 26.89	14.93
Laborers: (GUNITE - AREA B:)		
GROUP 1.....	\$ 27.10	14.93
GROUP 2.....	\$ 26.60	14.93
GROUP 3.....	\$ 26.01	14.93
GROUP 4.....	\$ 25.89	14.93
Laborers: (WRECKING - AREA A:)		
GROUP 1.....	\$ 27.14	14.93
GROUP 2.....	\$ 26.99	14.93
Laborers: (WRECKING - AREA B:)		
GROUP 1.....	\$ 26.14	14.93
GROUP 2.....	\$ 25.99	14.93
Landscape Laborer (GARDENERS, HORTICULTURAL & LANDSCAPE LABORERS - AREA A:)		
(1) New Construction.....	\$ 26.89	14.93
(2) Establishment Warranty Period.....	\$ 20.58	14.59



Landscape Laborer (GARDENERS,  
HORTICULURAL & LANDSCAPE  
LABORERS - AREA B:)

(1) New Construction.....\$ 25.89	14.93
(2) Establishment Warranty Period.....\$ 19.58	14.59

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive \$0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

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LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in- place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and buckler; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster;

Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive \$4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive \$5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive \$ .25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 1-g, CONTRA COSTA COUNTY: Pipelayer (including grade checking in connection with pipelaying); Caulker; Bander; Pipewrapper; Conduit layer; Plastic pipe layer; Pressure pipe tester; No joint pipe and stripping of same, including repair of voids; Precast manhole setters, cast in place manhole form setters

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender,

chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:

- A: at demolition site for the salvage of the material.
- B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
- C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

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#### GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunite laborer

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#### WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

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LABO0067-010 06/29/2009

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....	\$ 33.35	14.93
GROUP 2.....	\$ 33.12	14.93
GROUP 3.....	\$ 32.87	14.93
GROUP 4.....	\$ 32.42	14.93
GROUP 5.....	\$ 31.88	14.93
Shotcrete Specialist.....	\$ 33.87	14.93

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

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LABO0073-003 07/01/2009

CALAVERAS, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
LABORER		
Mason Tender-Brick.....	\$ 27.03	14.93

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LABO0073-005 07/01/2009

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE

	Rates	Fringes
Plasterer tender.....	\$ 28.37	14.14

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LABO0166-001 07/01/2006

ALAMEDA AND CONTRA COSTA COUNTIES:

	Rates	Fringes
Brick Tender.....	\$ 25.91	14.65

FOOTNOTES: Work on jobs where heat-protective clothing is required: \$2.00 per hour additional. Work at grinders: \$.25 per hour additional. Manhole work: \$2.00 per day additional.

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LABO0166-002 07/01/2006

ALAMEDA AND CONTRA COSTA COUNTIES:

	Rates	Fringes
Plasterer tender.....	\$ 30.15	15.90
Gun Man \$0.75 per hour additional		

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LABO0270-001 07/01/2008

SANTA CLARA & SANTA CRUZ COUNTIES

	Rates	Fringes
MASON TENDER, BRICK		
Santa Clara.....	\$ 27.93	13.48
Santa Cruz.....	\$ 26.93	13.48

FOOTNOTE: \$2.00 per hour for refractory work where heat-protective clothing is required.

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LABO0270-005 07/01/2007

SANTA CLARA AND SANTA CRUZ COUNTIES

	Rates	Fringes
PLASTER TENDER		
4 Stories and under.....	\$ 27.62	13.73
5 Stories and above.....	\$ 29.54	13.73

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LABO0294-001 07/01/2009

FRESNO, KINGS AND MADERA COUNTIES

	Rates	Fringes
LABORER (Brick)		
Mason Tender-Brick.....	\$ 27.03	14.93

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LABO0297-001 08/01/2007

MONTEREY AND SAN BENITO COUNTIES

	Rates	Fringes
Plasterer tender.....	\$ 23.70	11.50

FOOTNOTE: Mixer person: \$4.00 per day additional.

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PAIN0016-001 07/01/2009

ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN MATEO, SANTA CLARA, AND SANTA CRUZ COUNTIES

	Rates	Fringes
Painters:.....	\$ 34.00	15.87

PREMIUMS:

EXOTIC MATERIALS - \$0.75 additional per hour.

SPRAY WORK: - \$0.50 additional per hour.

INDUSTRIAL PAINTING - \$0.25 additional per hour

[Work on industrial buildings used for the manufacture and processing of goods for sale or service; steel construction (bridges), stacks, towers, tanks, and similar structures]

HIGH WORK:

over 50 feet - \$2.00 per hour additional

100 to 180 feet - \$4.00 per hour additional

Over 180 feet - \$6.00 per hour additional

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PAIN0016-003 01/01/2010

AREA 1: ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO & SANTA CLARA COUNTIES

AREA 2: CALAVERAS, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS & TUOLUMNE COUNTIES

	Rates	Fringes
Drywall Finisher/Taper		
AREA 1.....	\$ 40.66	16.18
AREA 2.....	\$ 36.53	14.78

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PAIN0016-012 01/01/2010

ALAMEDA, CONTRA COSTA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 43.66	14.82

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PAIN0016-015 01/01/2010

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 29.82	12.72

FOOTNOTES:

SPRAY/SANDBLAST: \$0.50 additional per hour.

EXOTIC MATERIALS: \$1.00 additional per hour.

HIGH TIME: Over 50 ft above ground or water level \$2.00 additional per hour. 100 to 180 ft above ground or water level \$4.00 additional per hour. Over 180 ft above ground or water level \$6.00 additional per hour.

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PAIN0016-022 07/01/2009

SAN FRANCISCO COUNTY

	Rates	Fringes
PAINTER.....	\$ 37.62	15.87

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PAIN0169-001 01/01/2010

FRESNO, KINGS, MADERA, MARIPOSA AND MERCED COUNTIES:

	Rates	Fringes
GLAZIER.....	\$ 31.18	14.15

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PAIN0169-005 01/01/2010

ALAMEDA CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA & SANTA CRUZ COUNTIES

	Rates	Fringes
GLAZIER.....	\$ 41.51	17.66

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PAIN0294-004 01/01/2010

FRESNO, KINGS AND MADERA COUNTIES

	Rates	Fringes
PAINTER		
Brush, Roller.....	\$ 26.46	12.03
Drywall Finisher/Taper.....	\$ 30.51	12.53

FOOTNOTE:

Spray Painters & Paperhangers recive \$1.00 additional per hour. Painters doing Drywall Patching receive \$1.25 additional per hour. Lead Abaters & Sandblasters receive \$1.50 additional per hour. High Time - over 30 feet (does not include work from a lift) \$0.75 per hour additional.

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PAIN0294-005 01/01/2010

FRESNO, KINGS & MADERA

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 30.12	11.40

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PAIN0767-001 07/01/2009

CALAVERAS, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
GLAZIER.....	\$ 33.53	16.20

PAID HOLIDAYS: New Year's Day, Martin Luther King, Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day.

Employee required to wear a body harness shall receive \$1.50 per hour above the basic hourly rate at any elevation.

-----  
PAIN1176-001 07/01/2009

HIGHWAY IMPROVEMENT

	Rates	Fringes
Parking Lot Striping/Highway Marking:		
GROUP 1.....	\$ 29.44	12.51
GROUP 2.....	\$ 24.23	12.51
GROUP 3.....	\$ 24.86	12.51

CLASSIFICATIONS

GROUP 1: Striper: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape, traffic stripes and markings

GROUP 2: Gamecourt & Playground Installer

GROUP 3: Protective Coating, Pavement Sealing

-----  
PAIN1237-003 01/01/2010

CALAVERAS; SAN JOAQUIN COUNTIES; STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 30.54	13.39

-----  
PLAS0066-002 07/01/2009

ALAMEDA, CONTRA COSTA, SAN MATEO AND SAN FRANCISCO COUNTIES:

Rates	Fringes
-------	---------



PLASTERER.....\$ 34.13 21.15

-----  
PLAS0300-001 07/01/2009

Rates Fringes

PLASTERER

AREA 188: Fresno.....\$ 29.72 14.21  
AREA 224: San Benito,  
Santa Clara, Santa Cruz.....\$ 34.22 14.08  
AREA 295: Calaveras & San  
Joaquin Counties.....\$ 32.82 15.10  
AREA 337: Monterey County..\$ 31.01 13.93  
AREA 429: Mariposa,  
Merced, Stanislaus,  
Tuolumne Counties.....\$ 32.82 15.30

-----  
PLAS0300-005 07/01/2006

Rates Fringes

CEMENT MASON/CONCRETE FINISHER...\$ 25.88 15.03

-----  
PLUM0038-001 07/01/2009

SAN FRANCISCO COUNTY

Rates Fringes

PLUMBER (Plumber,  
Steamfitter, Refrigeration  
Fitter).....\$ 47.11 34.39

-----  
PLUM0038-005 07/01/2009

SAN FRANCISCO COUNTY

Rates Fringes

Landscape/Irrigation Fitter  
(Underground/Utility Fitter).....\$ 40.03 28.43

-----  
\* PLUM0062-001 07/01/2010

MONTEREY AND SANTA CRUZ COUNTIES

Rates Fringes

PLUMBER & STEAMFITTER.....\$ 40.20 20.68

-----  
PLUM0159-001 07/01/2010

CONTRA COSTA COUNTY

Rates Fringes

Plumber and steamfitter		
(1) Refrigeration.....	\$ 52.23	22.49
(2) All other work.....	\$ 53.12	22.49

-----  
 \* PLUM0246-001 07/01/2010

FRESNO, KINGS & MADERA COUNTIES

	Rates	Fringes
PLUMBER & STEAMFITTER.....	\$ 35.45	21.08

-----  
 PLUM0246-004 07/01/2006

FRESNO, MERCED & SAN JOAQUIN COUNIES

	Rates	Fringes
PLUMBER (PIPE TRADESMAN).....	\$ 13.00	7.30

PIPE TRADESMAN SCOPE OF WORK:

Installation of corrugated metal piping for drainage, as well as installation of corrugated metal piping for culverts in connection with storm sewers and drains; Grouting, dry packing and diapering of joints, holes or chases including paving over joints, in piping; Temporary piping for dirt work for building site preparation; Operating jack hammers, pavement breakers, chipping guns, concrete saws and spades to cut holes, chases and channels for piping systems; Digging, grading, backfilling and ground preparation for all types of pipe to all points of the jobsite; Ground preparation including ground leveling, layout and planting of shrubbery, trees and ground cover, including watering, mowing, edging, pruning and fertilizing, the breaking of concrete, digging, backfilling and tamping for the preparation and completion of all work in connection with lawn sprinkler and landscaping; Loading, unloading and distributing materials at jobsite; Putting away materials in storage bins in jobsite secure storage area; Demolition of piping and fixtures for remodeling and additions; Setting up and tearing down work benches, ladders and job shacks; Clean-up and sweeping of jobsite; Pipe wrapping and waterproofing where tar or similar material is applied for protection of buried piping; Flagman

-----  
 PLUM0342-001 07/01/2009

ALAMEDA & CONTRA COSTA COUNTIES

	Rates	Fringes
PIPEFITTER		
CONTRA COSTA COUNTY.....	\$ 47.46	27.14
PLUMBER, PIPEFITTER, STEAMFITTER		
ALAMEDA COUNTY.....	\$ 47.46	27.14

PLUM0355-004 07/01/2010

ALAMEDA, CALAVERAS, CONTRA COSTA, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, STANISLAUS, AND TUOLUMNE COUNTIES:

	Rates	Fringes
Underground Utility Worker /Landscape Fitter.....	\$ 28.10	7.20

-----  
PLUM0393-001 07/01/2009

SAN BENITO AND SANTA CLARA COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 50.66	23.83

-----  
\* PLUM0442-001 07/01/2010

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS & TUOLUMNE COUNTIES

	Rates	Fringes
PLUMBER & STEAMFITTER.....	\$ 35.70	21.18

-----  
PLUM0467-001 07/01/2010

SAN MATEO COUNTY

	Rates	Fringes
Plumber/Pipefitter/Steamfitter...	\$ 51.75	24.26

-----  
ROOF0027-002 01/01/2010

FRESNO, KINGS, AND MADERA COUNTIES

	Rates	Fringes
ROOFER.....	\$ 27.65	8.05

FOOTNOTE: Work with pitch, pitch base of pitch impregnated products or any material containing coal tar pitch, on any building old or new, where both asphalt and pitchers are used in the application of a built-up roof or tear off: \$2.00 per hour additional.

-----  
ROOF0040-002 09/01/2009

SAN FRANCISCO & SAN MATEO COUNTIES:

	Rates	Fringes
ROOFER.....	\$ 33.33	10.39

-----  
ROOF0081-001 08/01/2009

ALAMEDA AND CONTRA COSTA COUNTIES:

	Rates	Fringes
Roofer.....	\$ 30.95	12.65

-----

ROOF0081-004 08/01/2009

CALAVERAS, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
ROOFER.....	\$ 24.56	12.60

-----

\* ROOF0095-002 08/01/2009

MONTEREY, SAN BENITO, SANTA CLARA, AND SANTA CRUZ COUNTIES:

	Rates	Fringes
ROOFER		
Journeyman.....	\$ 30.32	9.29
Kettle person (2 kettles); Bitumastic, Enameler, Coal Tar, Pitch and Mastic worker.....	\$ 33.32	9.29
Kettleman (2 kettles), Bitumastic Enameler, Coal Tar, Pitch & Mastic.....	\$ 33.73	9.89

-----

SFCA0483-001 01/01/2010

ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES:

	Rates	Fringes
SPRINKLER FITTER (FIRE).....	\$ 48.59	20.55

-----

SFCA0669-011 01/01/2009

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, MONTEREY, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
SPRINKLER FITTER.....	\$ 32.15	16.05

-----

SHEE0104-001 07/01/2009

AREA 1: ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO, SANTA CLARA

AREA 2: MONTEREY & SAN BENITO

AREA 3: SANTA CRUZ

	Rates	Fringes
SHEET METAL WORKER		
AREA 1:		
Mechanical Contracts		
under \$200,000.....	\$ 43.32	26.40
All Other Work.....	\$ 47.73	26.67
AREA 2.....	\$ 37.32	3%+22.45
AREA 3.....	\$ 39.25	22.26

-----  
SHEE0104-015 07/01/2009

ALAMEDA, CONTRA COSTA, MONTEREY, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA AND SANTA CRUZ COUNTIES:

	Rates	Fringes
SHEETMETAL WORKER (Metal Decking and Siding only).....	\$ 33.43	24.31

-----  
SHEE0162-001 01/01/2010

CALAVERAS AND SAN JOAQUIN COUNTIES:

	Rates	Fringes
SHEET METAL WORKER.....	\$ 31.81	19.68

-----  
SHEE0162-003 07/01/2009

MARIPOSA, MERCED, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
SHEET METAL WORKER (Excluding metal deck and siding).....	\$ 33.19	21.32

-----  
SHEE0162-004 07/01/2009

FRESNO, KINGS, AND MADERA COUNTIES:

	Rates	Fringes
SHEET METAL WORKER.....	\$ 33.18	22.47

-----  
SHEE0162-013 07/01/2009

CALAVERAS, FRESNO, KINGS, MADERA, MARIPOSA, MERCED, SAN JOAQUIN, STANISLAUS AND TUOLUMNE COUNTIES:

	Rates	Fringes
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Sheet metal worker (Metal decking and siding only).....\$ 33.19 21.32

-----  
TEAM0094-001 07/01/2009

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 27.13	18.99
GROUP 2.....	\$ 27.43	18.99
GROUP 3.....	\$ 27.73	18.99
GROUP 4.....	\$ 28.08	18.99
GROUP 5.....	\$ 28.43	18.99

FOOTNOTES:

Articulated dump truck; Bulk cement spreader (with or without auger); Dumpcrete truck; Skid truck (debris box); Dry pre-batch concrete mix trucks; Dumpster or similar type; Slurry truck: Use dump truck yardage rate.  
Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2-axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuel person; Snow buggy; Steam cleaning; Bus or personhaul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 2: Dump trucks, 6 yds. and under 8 yds.; Transit mixers, through 10 yds.; Water trucks, under 7,000 gals.; Jetting trucks, under 7,000 gals.; Single-unit flat rack (3-axle unit); Highbed heavy duty transport; Scissor truck; Rubber-tired muck car (not self-loaded); Rubber-tired truck jumbo; Winch truck and "A" frame drivers; Combination winch truck with hoist; Road oil truck or bootperson; Buggymobile; Ross, Hyster and similar straddle carriers; Small rubber-tired tractor

GROUP 3: Dump trucks, 8 yds. and including 24 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks under 7500 gals. Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self-propelled street sweeper with self-contained refuse bin; Boom truck - hydro-lift or Swedish type extension or retracting crane; P.B. or similar type self-loading truck; Tire repairperson; Combination bootperson and road oiler; Dry distribution truck (A

bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 4: Dump trucks, over 25 yds. and under 65 yds.; Water pulls - DW 10's, 20's, 21's and other similar equipment when pulling Aqua/pak or water tank trailers; Helicopter pilots (when transporting men and materials); Lowbedk Heavy Duty Transport up to including 7 axles; DW10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTourneau Pulls, Tournorocker, Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers; Vacuum Trucks 7500 gals and over and truck repairman

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler; Low bed Heavy Duty Transport over 7 axles

-----  
WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.  
=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

-----  
In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.  
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#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION



**PROJECT SIGN**  
(For Community Development Block Grant Funded Projects)  
(4' X 8')

COUNTY OF RIVERSIDE  
ECONOMIC DEVELOPMENT AGENCY  
(White letters on red background)

SUPERVISOR'S NAME

DISTRICT

PROJECT NAME

PROJECT COST

SPONSOR

CONTRACTOR

ARCHITECT/ENGINEER

(Blue letters on white background)

FUNDED BY: U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM  
EQUAL OPPORTUNITY - AFFIRMATIVE ACTION EMPLOYER  
EXECUTIVE ORDER 11246 AND SECTION 3 OF HOUSING AND URBAN  
DEVELOPMENT ACT OF 1968, AS AMENDED

(White letters on blue background)

**EXHIBITS B-4 THROUGH EXHIBIT B-9 ARE  
LOCATED AS PAGES XV THROUGH XXIV,  
PRIOR TO THE AGREEMENT FORM**

**POST CONTRACT AWARD FORMS**

**PERFORMANCE BOND**

Recitals: 1. \_\_\_\_\_  
(contractor)  
has entered into an Agreement dated \_\_\_\_\_ with \_\_\_\_\_  
\_\_\_\_\_ for construction of public work known as

\_\_\_\_\_  
(Project)

2. \_\_\_\_\_, a

\_\_\_\_\_ corporation (Surety), is the Surety under this Bond

Agreement:

We, Contractor, as Principal, and Surety, jointly and severally agree, state, and are bound unto Owner, as obligee, as follows:

1. The amount of the obligation of this Bond is 100% of the estimated contract price for the project of \$ \_\_\_\_\_ and insures to the benefit of Owner.

2. This Bond is exonerated by Contractor doing all things to be kept and performed by it in strict conformance with the. Contract Documents for the Project, otherwise it remains in full force and effect for the recovery of loss, damage and expense of Owner resulting from failure of Contractor to so act. All of said Contract documents are incorporated herein.

3. This obligation is binding on our successors and assigns.

4. For value received. Surety stipulates and agrees that no change, time extension, prepayment to Contractor, alteration or addition to the terms and requirements of the Contract Document or the work to be performed thereunder shall affect its obligations hereunder and waives notice as to such matters, except the total contract price cannot be increased by more than 10% without approval of Surety.

THIS BOND is executed as of \_\_\_\_\_  
Date

By \_\_\_\_\_ By \_\_\_\_\_

By \_\_\_\_\_ Type Name \_\_\_\_\_  
Its Attorney in Fact "Surety"

Title \_\_\_\_\_  
Contractor

Note: This Bond must be executed by both parties with corporate seal affected. All signatures must be acknowledged. (Attach acknowledgements)

**PAYMENT BOND**  
(Public Work - Civil Code 3247 et seq.)

The makers of this Bond are \_\_\_\_\_ as

Principal and Original Contractor and \_\_\_\_\_, a

corporation, authorized to issue Surety Bonds in California, as Surety, and this Bond is issued in

conjunction with that certain public works contract dated \_\_\_\_\_

between Principal and \_\_\_\_\_ a

public entity, as Owner; for the BOND is one hundred percent (100%) of said sum. Said contract is

for public work generally consisting of \_\_\_\_\_

The beneficiaries of this Bond are as is stated in 3248 of Civil Code and the requirements and conditions of this Bond are as is set forth in 3248, 3249, 3250 and 3252 of said Code. Without notice, Surety consents to extension of time for performance, change in requirements, amount of compensation, prepayment under said contract

Dated \_\_\_\_\_  
Original Contractor - Principal

By \_\_\_\_\_  
Surety

By \_\_\_\_\_ Title \_\_\_\_\_  
(If corporation - affix seal)

(Corporate Seal)

STATE OF CALIFORNIA

COUNTY OF \_\_\_\_\_ ) SS SURETY'S ACKNOWLEDGMENT

On \_\_\_\_\_ before me personally appeared \_\_\_\_\_

known to me to be the person whose name is subscribed to the within the instrument as attorney in

fact of \_\_\_\_\_, a corporation, and acknowledged that

he subscribed the name of said corporation thereto, and his own name is its attorney in fact.

\_\_\_\_\_  
Notary Public (Seal)

Riverside County Counsel

Approved Form 1-9-74

<b>SUBCONTRACTOR QUESTIONNAIRE</b>
------------------------------------

Engaged in the contracting business under the present name of \_\_\_\_\_  
 \_\_\_\_\_, since \_\_\_\_\_ (Date).

Present business address is: \_\_\_\_\_

Federal Tax ID: \_\_\_\_\_ Amount of Sub-Contractor \$ \_\_\_\_\_

State of California Contractor's License No.: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Because this project is Federally-funded, it is necessary to obtain information concerning minority and other group participation for statistical purposes. The U.S. Department of Housing and Urban Development (HUD) uses this information to determine the degree to which its programs are being utilized by minority business enterprises and targeted group contractors.

A minority enterprise is defined by the Federal Government as a business that is fifty-percent (50%) or more "minority-owned". Please check applicable box concerning the ownership of your business:

- American Indian or Native Alaskan
- Asian or Pacific Islander/Native Hawaiian
- Black/African American
- Hispanic
- White
- Hasidic Jews
- Other \_\_\_\_\_

A woman-owned enterprise is defined by the Federal Government as a business that is fifty-percent (50%) or more woman-owned. Please check applicable box concerning the ownership of your business:

- Woman/Female owned
- Male owned

A Section 3 Contractor or Subcontractor is a business concern that is more than fifty-percent (50%) owned by a low or very low-income person, or a business concern that provides economic opportunities to low and very low-income residents. Please check applicable box concerning the ownership of your business:

- Section 3 Business concern
- Non-Section 3 Business concern

The United States Department of Housing and Urban Development (HUD) is authorized to solicit the information requested in this form by virtue of *Title 12, United States Code, Section 1701 et seq.*, and other regulations. It will not be disclosed or released outside of HUD without your consent, except as required or permitted by law.

**EXHIBIT PA-3 (Cumulative)**

**ECONOMIC DEVELOPMENT AGENCY  
COMMUNITY SERVICES DIVISION**

**CDBG / ESG / HOME PROGRAMS  
Contractor / Sub-Contractor Questionnaire**

EDA Use Only  
Project Name: \_\_\_\_\_  
File \_\_\_\_\_

Note: The information requested is used to compile data required by HUD for Federally funded projects. The information is used by HUD to monitor and evaluate Minority Business Enterprise activities against the total program activity and the designated minority business enterprise (MBE) goals.

Privacy Act Notice - The United States Department of Housing and Urban Development, Federal Housing Administration, is authorized to solicit the information requested in this form by virtue of Title 12, United States Code, Section 1701 et seq., and regulation. It will not be disclosed or released outside the United States Department of Housing and Urban Development without your consent, except as required or permitted by law.

**Project Name:** \_\_\_\_\_

Amount of Contract or Subcontract	Contractor or Subcontractor Business Racial / Ethnic (see below)	Type of Business 1-9	Woman Owned Business (Y or N)	Prime Contractor Identification (ID) Number	Sub-Contractor Identification (ID) Number	Sec. 3 (Y or N)	Contact Person	Contractor / Subcontractor Name and Address			
								Name	Street	City	

- Racial / Ethnic Codes:**
- 1 = White Americans
  - 2 = Black Americans
  - 3 = Native Americans
  - 4 = Hispanic Americans
  - 5 = Asian / Pacific Americans
  - 6 = Hasidic Jews
- Type of Business / Trade Codes**
- 1 = New Construction
  - 2 = Substantial Rehab
  - 3 = Repair
  - 4 = Repair
  - 5 = Project Management
  - 6 = Professional
  - 7 = Tenant Services
  - 8 = Education Training
  - 9 = Arch / Eng Appraisal
  - 0 = Other
- Section 3: Yes / No**
- A Section 3 Contractor or subcontractor is a business concern that provides economic opportunities to low and very low-income residents of the metropolitan area (or non-metropolitan county), including a business concern that is 51 percent or more owned by low-income residents.

PRINT NAME: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_

**CERTIFICATION OF SUBCONTRACTOR  
REGARDING NONSEGREGATED FACILITIES**

Project Name: \_\_\_\_\_

Name of Subcontractor: \_\_\_\_\_

Name of General Contractor: \_\_\_\_\_

The above named Subcontractor hereby certifies that:

**I do not maintain or provide for my employees any segregated facilities at any of my establishments, and that I do not permit my employees to perform their services at any location, under my control, where segregated facilities are maintained. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms, wash rooms, restaurants and other eating areas, time clocks, locker rooms or other dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, national origin, or because of habits, local customs, or otherwise.**

**Signature:** \_\_\_\_\_

**Name (Print):** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_



SECTION 3 SUMMARY REPORT  
ECONOMIC OPPORTUNITIES FOR LOW AND VERY LOW-INCOME PERSONS

EXHIBIT PA-5

PROJECT NAME: \_\_\_\_\_

DATE \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

SUBCONTRACTOR: \_\_\_\_\_

JOB CATEGORY	NUMBER OF NEW HIRES	NUMBER OF NEW HIRES THAT ARE SECTION 3 RESIDENTS	% OF AGGREGATE NUMBER OF STAFF HOURS OF NEW HIRES THAT ARE SECTION 3	% OF TOTAL STAFF HOURS FOR SECTION 3 EMPLOYEES
PROFESSIONALS				
TECHNICIANS				
OFFICE / CLERICAL				
<b>CONSTRUCTION BY TRADE</b>				
TRADE				
TRADE				
TRADE				
TRADE				
TRADE				
TRADE				
TRADE				
OTHERS				
TOTAL				

NAME OF PERSON COMPLETING FORM: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

Section 3 "New Hires" refers to a person who is not on the Contractor's payroll for employment at the time of Contract award.

Recipients and contractors subject to Section 3 requirements must maintain appropriate documentation to establish that HUD financial assistance for CDBG-funded projects was directed to low-income and very low-income persons. Low-income persons means families (including single people) whose incomes do not exceed 80% of the area median household income, as established by HUD, with adjustments for family size. Very low-income persons means families ( including single people) whose incomes do not exceed 50% of the area median household income, as established by HUD, with adjustments for family size.

**CDBG PROJECT LABOR CLASSIFICATION SURVEY**

PROJECT NAME: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_

PROJECT NUMBER: \_\_\_\_\_ SUBCONTRACTOR: \_\_\_\_\_

**CLASSIFICATIONS**

BRICKLAYER \_\_\_\_\_ LABORERS: GROUP 1 \_\_\_\_\_

CARPENTERS \_\_\_\_\_ GROUP 2 \_\_\_\_\_

CEMENT MASONS \_\_\_\_\_ GROUP 3 \_\_\_\_\_

DRYWALL HANGERS \_\_\_\_\_ GROUP 4 \_\_\_\_\_

ELECTRICIANS \_\_\_\_\_ GROUP 5 \_\_\_\_\_

IRON WORKERS \_\_\_\_\_ POWER EQUIPMENT OPERATORS

PAINTERS \_\_\_\_\_ GROUPS 1 – 21 \_\_\_\_\_

PLUMBERS \_\_\_\_\_

ROOFERS \_\_\_\_\_

SHEET METAL WORKERS \_\_\_\_\_ TRUCK DRIVERS

SOFT FLOOR LAYERS \_\_\_\_\_ GROUPS 1-11 \_\_\_\_\_

TILE LAYERS \_\_\_\_\_

LANDSCAPE / IRRIGATION  
FITTERS \_\_\_\_\_

LABORERS – STRIPPING \_\_\_\_\_

PLASTERER \_\_\_\_\_

OTHERS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ADDITIONAL CLASSIFICATIONS  
(Must be approved by HUD and DOL)

CLASSIFICATIONS

**PA-6 (Continued)**

<b>PROJECT NAME:</b>			<b>WAGE DECISION NUMBER/MODIFICATION NUMBER:</b>			
<b>PROJECT NUMBER:</b>			<b>PROJECT COUNTY:</b>			
<b>WORK CLASSIFICATION</b>	<b>BASIC HOURLY RATE (BHR)</b>	<b>FRINGE BENEFITS</b>	<b>TOTAL HOURLY WAGE RATE</b>	<b>LABORERS FRINGE BENEFITS:</b>		<b>\$ TOTAL WAGE</b>
				<b>GROUP #</b>	<b>BHR</b>	
Bricklayers			\$			
Carpenters			\$			\$
Cement Masons			\$			\$
Drywall Hangers			\$			\$
Electricians			\$			\$
Iron Workers			\$			\$
Painters			\$	<b>OPERATORS FRINGE BENEFITS:</b>		\$
Plumbers			\$	<b>GROUP #</b>	<b>BHR</b>	<b>TOTAL WAGE</b>
Roofers			\$			\$
Sheet Metal Workers			\$			\$
Soft Floor Layers			\$			\$
Tapers			\$			\$
Tile Setters			\$	<b>TRUCK DRIVERS FRINGE BENEFITS:</b>		\$
<b>OTHER CLASSIFICATIONS</b>				<b>GROUP #</b>	<b>BHR</b>	<b>TOTAL WAGE</b>
			\$			\$
			\$			\$
			\$			\$
<b>ADDITIONAL CLASSIFICATIONS (HUD Form 4230-A)</b>						
<b>WORK CLASSIFICATION</b>	<b>BASIC HOURLY RATE</b>	<b>FRINGE BENEFITS</b>	<b>TOTAL HOURLY WAGE RATE</b>	<b>DATE OF HUD SUBMISSION TO DOL</b>	<b>DATE OF DOL APPROVAL</b>	
			\$			
			\$			
			\$			
			\$			

**SUBCONTRACTOR CERTIFICATION  
FOR SECTION 3 COMPLIANCE**

(Housing and Community Development Act of 1968)

Project Title: \_\_\_\_\_ Amount of Subcontract \_\_\_\_\_

Subcontractor Name (Type/Print): \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

**The undersigned hereby certifies that he/she has read and understands Riverside County's Section 3 Affirmative Action Program as well as Section 3 of the *Housing and Community Development Act of 1968*, and further certifies adoption of, and adherence to, said program, and certifies one of the following:**

\_\_\_\_\_ I am a sub-contractor for this project, and as a result of CDBG-funding, new  
Initial Here employment opportunities have been created; therefore, in compliance with  
Section 3, I will provide all necessary job descriptions and other information to  
EDA as directed.

\_\_\_\_\_ There will be no new employment opportunities resulting from this  
Initial Here subcontract.

Authorized Representative (Print/Type): \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**INDIANA AVE. SIDEWALK IMPROVEMENT PROJECT  
IN THE HOME GARDENS AREA OF RIVERSIDE, CA.**

**SPECIAL PROVISIONS**

**DESCRIPTION:**

In general, this project consists of furnishing all materials, equipment, tools, labor, and incidentals as required by the plans, specifications and contract documents for the above stated project.

The general items of work to be done hereunder consist of construction of asphalt concrete pavement, concrete curb, gutter, curb ramps, driveways, sidewalk, signing & striping, pavement markings, adjust utility covers, relocation of fences, mail boxes, and other work as may be required.

**SPECIFICATIONS:**

The work covered herein shall be done in accordance with the details shown on the plans, as provided in these Technical Specifications, County of Riverside Road Improvement Standards and Specifications, Caltrans Standards and Specifications (latest edition), or The "Greenbook" Standard Specifications for Public Works Construction (latest edition), whichever is more stringent.

Requirements on the construction plans for Portland Cement Concrete are modified to the PCC Class designations, as described in Section 90-1.01 of the 2006 Standard Specifications, as follows:

- Class "A" shall mean Class "2"
- Class "B" shall mean Class "3"
- Class "C" shall mean Class "4"
- Class "D" shall mean Class "1"

**PRECEDENCE:**

In event of conflict between various provisions of the plans and specifications, the provisions more restrictive of the Contractor shall apply. In event of conflict that cannot be resolved by restrictiveness, the document highest in precedence shall control. The precedence shall be:

- a. Federal and State requirements (where applicable)
- b. Permits from Agencies having jurisdictions
- c. Special Provisions
- d. General Provisions
- e. Plans (Drawings)

f. Standard Drawings

**PROGRESS SCHEDULE (CRITICAL PATH):**

Progress schedules will be required for this contract. Within 10 working days of award of the contract, the Contractor shall submit to the Engineer a baseline progress schedule. The baseline progress schedule shall utilize a Critical Path Method (CPM) network diagram that clearly shows sequence and duration of major construction activities, the ability to complete the work, effect on traffic control and the length of time the public right-of-ways are affected. The Contractor is encouraged to consider segmenting and sequencing work to facilitate traffic control and minimize any traffic delays. By execution of the contract, the Contractor represents that it has analyzed the work, materials and methods involved, the restrictions of the project site, and the Contractor's own work load and capacity to perform the work, and also agrees that the specified durations are reasonable.

The Progress Schedule submitted shall meet in all respects the time and order of work requirements of the contract. The work shall be executed in the sequence indicated in the approved Progress Schedule and subsequent approved updates and revisions. The Contractor shall be responsible for assuring that all work sequences are logical and that the network shows a coordinated plan for complete performance of the work. Failure of the Contractor to include any element of work, or any inaccuracy in the Progress Schedule will not relieve the Contractor from the responsibility of accomplishing all the work in accordance with the contract documents and within the contract time.

Critical activities are defined as activities, which, if delayed or extended, will delay the scheduled completion of one or more of the milestones specified in this section. All other work activities are defined as non-critical and are considered to have float. Float is defined as the time that a non-critical work activity can be delayed or extended without delaying the scheduled completion of the work. Delays of any non-critical work activity shall not be the basis for an extension of contract time until the delays consume the float associated with the non-critical work activity and cause the work to become critical.

**Initial Submittal:**

The Contractor shall submit three (3) copies of the initial Progress Schedule to the Engineer including the following reports:

1. CPM Schedule - A Critical Path Method (CPM), time-scaled network diagram showing continuous flow from left to right;
2. Tabular Report - A tabular report displaying the activity identifier, activity descriptions, activity duration, planned early start and early finish dates, planned late start and late finish dates and calculated total float for each activity. The tabular report shall include the budget cost and required

manpower associated with each activity. The tabular reports shall be sorted by identification number, early start, and total float;

3. Narrative Report - A brief narrative report discussing the assumptions used to generate the schedule and identifications of any potential problems.

**Format:**

The initial Progress Schedule shall be in sufficient detail as to demonstrate adequate planning for the work, and represent a practical plan to complete the work within the contract time for each intermediate milestone and for the entire contract within the specified working days from date of the Notice To Proceed as stated in Section 7.1 of the General Conditions.

The Contractor shall establish specific contract milestones to be identified in the initial Progress Schedule and all subsequent submittals. These milestones shall be tied to any segmenting and sequencing identified in the bid submittal.

The initial Progress Schedule shall also include, but not limited to, the following:

Dates for the submission, review, and approval of each submittal. Dates shall be shown for the procurement, fabrication, delivery, and installation of major equipment, materials, and other scheduled activities as designated by the Engineer.

Identification of all work activities that constitute the critical path and all other activities. Indication of dependencies and logic between activities. Identification of proposed durations and sequencing of all construction activities. These activities shall be cost and manpower loaded.

Within seven (7) days after receipt of the initial submittal, the Engineer will notify the Contractor of its acceptance or its review comments about the schedule so that appropriate adjustments may be made by the Contractor in the initial Progress Schedule.

The Contractor shall within five (5) days from receipt of the Engineer's comments, either respond to Engineer's comments, or formally request a joint meeting to resolve any objections to the Engineer's comments.

**Progress Schedule Updates:**

The Progress Schedule shall be updated on a bi-weekly basis for the purpose of recording and monitoring the progress of work and shall constitute the basis for payments. The Contractor shall submit three (3) copies of the updated Progress Schedule. The updated Progress Schedule shall follow the guidelines of the initial Progress Schedule submittal and shall include the following:

1. Accurate reflection of all previously completed activities and the percent complete of work activities in progress;
2. All changes mutually agreed upon by the Contractor and the Engineer during preceding periodic review and all changes resulting from change orders;
3. The Engineer will review the updated contract schedule within seven (7) days after its receipt and comment;
4. The Contractor shall perform the work in accordance with the accepted updated Progress Schedule.

**Revisions to the Schedule:**

Updating the schedule to reflect actual progress made up to the date of an update will not be considered revision to logic, sequence and schedule; in case of disagreements concerning actual progress to date, the Engineer's determination will govern.

**MOBILIZATION**

Mobilization shall conform to the provisions in Section 11, "Mobilization," of the Caltrans Standard Specifications.

As part of mobilization, the Contractor shall also provide a single place (job board, etc.) to place all required federal forms, Cal/OSHA and EEO labor compliance posters, all permits, all safety items, and any and all paperwork that must be posted in public view.

**Staging Area**

The Contractor shall be responsible to secure the staging area. The Contractor shall ensure that no materials, equipment or personnel occupy or travel over adjacent property that is outside of the staging area. The Contractor shall be fully responsible for the security of his equipment and materials. Care shall be taken to avoid any contamination of the property from spills of any materials or contaminants, including gasoline, oil, concrete, etc., and any spills shall be completely and promptly removed. Upon completion of construction, the property shall be return to its original condition, to the greatest extent possible. Final payment will not be made until the condition of the staging property is inspected and approved by the Engineer.

The lump sum contract price paid for mobilization shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for mobilization and no additional compensation will be allowed therefore.



**Liquidated Damages:**

The contractor shall diligently prosecute the work to completion before the expiration of **seventy (70)** calendar days from the date stated in the "Notice to Proceed". The Contractor shall pay to the County of Riverside – Economic Development Agency the sum of **\$1,000.00 per day**, for each and every calendar day's delay in finishing the work in excess of the number of working days prescribed above.

In additions to the liquated damages set forth above, the first lift of asphalt concrete paving shall be placed within seven (7) calendar days of the removal of existing asphalt concrete for each street segment. A street segment is hereby defined as that area of road removed in one (1) day. Contractor shall pay to the County of Riverside the sum of **\$800.00 per day**, for each and every calendar day's delay in completing paving within the number of calendar days prescribed above, for each street segment subjected to delay, and shall apply separately to each street segment within the scope of work.

**DISPOSAL OF EXCESS EXCAVATION OR MATERIALS:**

Excess earth excavation, pavement grindings and other excess materials resulting from construction operations shall be disposed of by the Contractor outside of the highway right of way, as provided in Section 7-1.13 of the Caltrans Standard Specifications.

The second paragraph of Section 7-1.13 of the Caltrans Standard Specifications is modified to read as follows:

"When any material is to be disposed of outside the highway right of way, and the County of Riverside have not made arrangements for the disposal of such material, the Contractor shall first obtain written authorization from the property owner on whose property the disposal is to be made and he shall file with the Engineer said authorization or a certified copy thereof together with a written release from the property owner absolving the County of Riverside from any and all responsibility in connection with the disposal of material on said property. If the disposal of materials is to be made at an established disposal facility that is available for public use, the Contractor shall retain all authorizations and receipts from said disposal facility and shall provide copies to the Engineer upon request."

**RECORD DRAWINGS:**

The Contractor shall keep one clean set of bond originals to note any changes which take place during construction. These changes to the original plans and/or specifications shall be noted at the appropriate locations with the appropriate changes indicated in red pencil or ink. The Contractor shall note in large letters "RECORD DRAWINGS" on the Title Sheet of the plans. The job will not be finalized by the Engineer until these record drawings have been completed to the satisfaction of the Engineer. The changes shall be noted on the plans as the changes occur. The record

drawings shall be submitted to the Resident Engineer, and become the property of the County at conclusion of the project.

Full compensation for maintaining and compiling the record drawings shall be considered to be included in other items of work and no additional compensation will be allowed therefore.

**PRECONSTRUCTION AUDIO VIDEO**

The Contractor shall make arrangements with a professional photographer, approved by the Owner, to prepare a full color pre-construction audio and video tape of the project site with the Inspector present prior to mobilizing and provide the Owner with a DVD copy.

**ITEMS OF WORK:**

**TRAFFIC CONTROL SYSTEM:**

Maintaining traffic shall conform to the provisions in Caltrans Standard Specifications, Sections 7-1.02 "Load Limitations", 7-1.06 "Safety and Health Provisions", 7-1.08 "Public Convenience", 7-1.09 "Public Safety", and 12-3.04 "Portable Delineators" of the Standard Specifications, the Manual of Traffic Controls, the Section of these contract documents entitled "Insurance - Hold Harmless", and these Special Provisions.

All existing traffic control signs and street name signs shall be maintained in visible locations as directed by the Engineer.

All warning lights, signs, flares, barricades and other facilities for the sole convenience and direction of public traffic shall be furnished and maintained by the Contractor. All signs shall conform to and be placed in accordance with latest edition of California Manual on Uniform Traffic Control Devices for Street and Highways.

All construction signs shall be either covered or removed when not required by the nature of the work or if no present hazard to the motorist exists.

No payment for extra work will be allowed for work performed as specified in Caltrans Standard Specifications, Section 12-2.02 (Flagging Costs) of the Standard Specifications. Flagging costs will be borne entirely by the Contractor.

The contractor shall notify the appropriate regional notification center for operators of subsurface installations at least 2 working days, but not more than 14 calendar days, prior to commencing excavation for construction area sign posts. The regional notification centers include, but not limited to, the following:

Notification Center	Telephone Number
Underground Service Alert- Southern California (USA)	1-800-422-4133 1-800-227-2600 or 811

Excavations required to install construction area signs shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there are no utility facilities in the area of the proposed post holes.

Dust control shall conform to the provision of Caltrans Standard Specifications, Section 10 except that no extra work will be allowed when the Engineer orders the application of water for the purpose of controlling dust caused by public traffic as provided for in the last paragraph of said Section 10.

The contractor shall prepare traffic control and staging plan for the improvements within the County right of way.

Payment - Full compensation, except as otherwise provided herein, for conforming to the requirements of this article, preparing traffic control and construction staging plans, including furnishing, installing and maintaining all traffic control devices, temporary pavement markings, construction signs, traffic directing services, and all the other items shown on the traffic control plan, shall be paid for on a lump sum basis, and no additional compensation will be allowed therefore.

**CLEARING AND GRUBBING:**

Clearing and grubbing shall conform to the provisions in Caltrans Standard Specifications, Sections 15 and 16.

Existing privately owned signs shall be relocated to the property line or as directed by engineer with the requirements of Section 15 "Existing Highway Facilities" of the Caltrans Standard Specifications and as directed by the Engineer.

For the purpose of making partial payments pursuant to Section 9-1.06, "Partial Payments" of the Standard Specifications, the amount set forth for the contract item of work hereinafter listed shall be deemed to be maximum total value of said contract item of work which will be recognized for progress payment purposes:

Clearing and Grubbing - \$ 30,000.00

After acceptance of the contract pursuant to Section 7-1.17, "Acceptance of Contract" of the Caltrans Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes herein above listed for said item, will be included for payment in the first estimate made after acceptance of the contract.

Removal/relocation of fences, walls, barriers, post, bollards, mailboxes, structures, facilities, trees, shrubs, vegetation, trash & debris, and signs as required for the construction of the proposed improvements, shall be considered as included in the contract price paid for "Clearing and Grubbing", and no additional compensation will be allowed therefore. The Contractor shall coordinate with the appropriate land owner for the removal/relocation of said facilities.

Traffic signs removed during construction shall be salvaged by the Contractor and relocated or placed at the yard of the Owner if required by the Engineer.

Payment - Full compensation, except as otherwise provided herein, for conforming to the requirements of this article shall be paid for on a lump sum basis and no additional compensation will be allowed therefore. Full compensation shall be considered as included in the contract price paid for "Clearing and Grubbing", and no additional compensation will be allowed therefore.

## **WATER POLLUTION CONTROL:**

Throughout the term of this contract, the total soil-disturbed area of the project site shall be more than 1 acre.

A SWPPP (Storm Water Pollution Prevention Plan) has been prepared for the project site. A copy of the SWPPP shall be provided to the Contractor. The Contractor shall be responsible for updating the SWPPP document with correct and current information, including an Erosion Control/BMP plan. Changes to the SWPPP and/or Erosion Control/BMP plan shall be noted within the SWPPP and/or on the plans as the changes occur for this project.

## **National Pollutant Discharge Elimination System - NPDES:**

The Contractor shall comply with the requirements in the latest version of the statewide NPDES General Permit (Permit No. CAS000002) for stormwater Discharges Associated with Construction Activity and Modification to Water Quality Order 2009-0009-DWQ SWRCB NPDES General Permit for Stormwater Discharges Associated with Construction Activity, hereafter referred to collectively in this Section as the "General Permit", issued by the State Water Resources Control Board. This General Permit regulates both stormwater and non-stormwater discharges associated with Contractor's construction activities. The Contractor shall prepare and implement a Stormwater Pollution Plan (SWPPP) in accordance with Section 12 "Stormwater and Non-Stormwater Pollution Control" of the Detailed Specifications.

A copy of the Permit may be obtained at the office of the County of Riverside Transportation Department, 4080 Lemon Street, 8<sup>th</sup> Floor, Riverside, California. (951) 955-6780, or may be obtained on the internet at: [http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/constpermits.shtml](http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml).

The Contractor's attention is directed to:

1. "General Requirements" which allows the Engineer to withhold progress payments if the Contractor fails to fully implement "Stormwater and Non-Stormwater Pollution Control" or is deemed to be in non-compliance with provisions of the general permit;
2. "SWPPP Implementation" which allows the Engineer to suspend construction operations if the Contractor fails to implement the approved SWPPP and any amendments thereto.

The contract term "Stormwater and Non-Stormwater Pollution Control" shall include amending and implementing the Stormwater Pollution Prevention Plan (SWPPP) as required by the State Water Resources Control Board (SWRCB) and the California Regional Water Quality Control Board (CRWQCB) – Santa Ana Region.

The SWPPP identifies site specific Best Management Practices (BMPs) to be implemented during and after construction to minimize the potential pollution of stormwater runoff and receiving waters. The identified BMPs are practices designed to minimize or eliminate the discharge of pollutions from the construction site and the Contractor's construction activities, including, but not limited to:

1. Good housekeeping practices for solid and sanitary/septic waste management, vehicle and equipment cleaning/maintenance, and material handling and storage.
2. Construction procedures such as stabilized construction access points, schedule/phasing to minimize areas of soil disturbance, soil stabilization, and erosion/sediment control.

The SWPPP stipulates an ongoing program for monitoring and maintenance of all BMPs.

#### **General Requirements:**

All activities performed by the Contractor for this project shall conform to the requirements in the latest version of the statewide National Pollutant Discharge Elimination System (NPDES) General Permit (Permit No. CAS000002) for Stormwater Discharges Associated with Construction Activity and Modifications to Water Quality Order 2009-0009-DWQ SWRCB NPDES General Permit for Stormwater Discharges Associated with Construction Activity, hereafter referred to collectively as the "General Permit", issued by the SWRCB. This General Permit regulates both stormwater and non-stormwater discharges associated with Contractor's construction activities.

A copy of the Permit and Resolution may be obtained at the office of the County of Riverside Transportation Department, 4080 Lemon Street, 8<sup>th</sup> Floor, Riverside, California. (909) 955-6780, or may be obtained on the internet at [http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/constpermits.shtml](http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml)

In the event the County incurs any Administrative Civil Liability (fine) imposed by the CRWQCB – San Ana Region, as a result of Contractor's failure to fully implement the provisions of "Stormwater and Non-Stormwater Pollution Control", the Engineer, may, in the exercise of his sole judgment and discretion, withhold from payments otherwise due Contractor a sufficient amount to cover the Civil Liability. Liability may be in an amount up to \$27,500 per day per deemed occurrence.

The Contractor shall be responsible for all costs and for any liability imposed by law as a result of the Contractor's failure to comply with the requirements set forth in "Stormwater and Non-Stormwater Pollution Control", including but not limited to, compliance with the applicable provisions of the Caltrans Handbooks, General Permit, Federal, State, and local regulations. For the purpose of this paragraph, costs and liabilities include, but not limited to, fines, penalties and damages whether assessed

against the District or the Contractor, including those levied under the Federal Clean Water Act and the State Porter-Cologne Water Quality Act.

The Contractor shall become fully informed of and comply with the applicable provisions of the Caltrans Handbooks, General Permit, Federal, State and local regulations that govern the Contractor's activities and operation pertaining to both stormwater and non-stormwater discharges from both the project site and areas of disturbance outside the project limits during construction. The Contractor shall, at all times, keep copies of the General Permit, approved SWPPP and all amendments at the project site. The SWPPP shall be made available upon request of a representative of the SWRCB, CRWQCB, United States Environmental Protection Agency (USEPA) or local stormwater management agency. Requests by the public shall be directed to the Engineer.

The Contractor is solely and exclusively responsible for any arrangements made between the Contractor and other property owners or entities that result in disturbance of areas or construction activities being conducted outside limits of the designated rights-of-way and temporary construction easements as shown on the project drawings.

The Contractor shall, at reasonable times, allow authorized agents of the CRWQCB, SWRCB, USEPA or local stormwater management agency, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the construction site and the Contractor's facilities pertinent to the work;
2. Have access to and copy any records required to be kept as specified in the General Permit;
3. Inspect the construction site, including any off-site staging areas or material storage areas, and related soil stabilization practices and sediment control BMPs; and
4. Sample or monitor for the purpose of ensuring compliance with the General Permit.

The Contractor shall notify the Engineer immediately upon request from regulatory agencies to enter, inspect, sample, monitor or otherwise access the project site or the Contractor's records.

#### **SWPPP Preparation and Approval:**

The Contractor shall implement the furnished SWPPP as part of the Stormwater and Non-Stormwater Pollution Control work for this contract. The SWPPP includes an appropriate sampling and analysis plan (SAP) as required by Section B, "Monitoring Program and Reporting Requirements" of the General Permit.

### **Stormwater Pollution Prevention Plan Amendments:**

The Contractor shall prepare amendments to the SWPPP, both graphically and in narrative form, whenever there is a change in Contractor's construction activities or operations which may result in the discharge of pollutants to surface waters, ground waters, municipal storm drain systems or when deemed necessary by the Engineer. The Contractor shall also amend the SWPPP if it is in violation of any condition of the General Permit, or has not effectively achieving the objectives of reducing pollutants in stormwater discharges. Amendments shall show additional BMPs, revised Contractor's construction activities or operations, including those in areas not shown in the initially approved SWPPP, which are required on the project to effectively control water pollution.

The contractor shall register with the SWRCB under the SMARTS (Storm Water Multiple Application and Report Tracking System) website <http://smarts.waterboards.ca.gov/> to upload amendments and updates to the SWPPP and supporting documents as required by Order 2009-0009-DWQ.

Amendments to the SWPPP shall be submitted for review and approval by the Engineer in the same manner specified for the initial approval of the SWPPP. The Contractor shall date and attach all approved amendments to the SWPPP. Upon approval of the amendment, the Contractor shall implement the additional BMPs, revised construction activities or operations.

### **Annual Compliance Certification:**

The Contractor shall certify annually that construction activities are in compliance with the requirements of the General Permit and the approved SWPPP. The certification must be completed by July 1<sup>st</sup> of each year and the Annual Report submitted no later than September 1<sup>st</sup> of each year.

### **Non-Compliance Reporting:**

If the project is in non-compliance at any time, the Contractor shall make a written report to the Engineer within two (2) calendar days of identification of non-compliance activities.

### **Stormwater Pollution Prevention Plan Implementation:**

Upon approval of the SWPPP, the Contractor shall be responsible throughout the duration of the project for placing, installing, constructing, inspecting and maintaining the BMPs as well as conducting the sampling and analysis plan as included in the SWPPP and any amendments thereto and for removing and disposing of temporary BMPs. Amendments to the SWPPP and BMP's shall be uploaded to the SMARTS (Storm Water Multiple Application and Report Tracking System) website <http://smarts.waterboards.ca.gov/> as required by Order 2009-0009-DWQ. Unless otherwise directed by the Engineer or specified in these Special Provisions, the



Contractor's responsibility for SWPPP implementation shall continued throughout any temporary suspension of work ordered in accordance with Section 8-1.05, "Temporary Suspension of the Work", of the Standard Specifications. Requirements for installation, construction, inspection, maintenance, removal and disposal of BMPs are specified in the Caltrans Handbooks and these Special Provisions.

The Engineer may order the suspension of construction operations if the Contractor fails to comply with the requirements of "Stormwater and Non-Stormwater Pollution Control" as determined by the Engineer.

The Contractor will not be compensated for sampling and analysis work because of the Contractor's failure to properly implement, inspect, maintain, and repair BMPs in the approved SWPPP and any amendments thereto, or for failing to store construction materials or wastes in watertight conditions.

- a. Stormwater Pollution Control – The Contractor shall implement soil stabilization practices and sediment control BMPs, including minimum requirements as presented in the Caltrans Handbooks, on all disturbed areas of the project site throughout the rainy season, defined as between October 1<sup>st</sup> and May 31<sup>st</sup>.

Implementation of soil stabilization practices and sediment control BMPs for soil-disturbed areas, including but not limited to, rough graded access roads, slopes, channel inverts, operational inlets and outlets of the project site shall be completed no later than ten (10) calendar days prior to the start of the rainy season or upon start of applicable Contractor's construction activities for projects which begin either during or within ten (10) calendar days of the rainy season.

The Engineer may require the Contractor, on a case- by-case basis, to reduce the active, soil-disturbed area limit of the project. The Contractor shall demonstrate the ability and preparedness to fully deploy soil stabilization practices and sediment control BMPs to protect soil-disturbed areas of the project site by maintaining an adequate quantity of soil stabilization and sediment control materials onsite to protect exposed, soil-disturbed areas and a detailed plan for the mobilization of sufficient labor and equipment to fully deploy the required BMPs prior to the onset of precipitation and for the duration of the project.

Throughout the rainy season, active soil-disturbed areas of the project site shall be fully protected at the end of each day with soil stabilization practices and sediment control BMPs. The Contractor shall monitor the weather forecast on a daily basis. The National Weather Service forecast shall be used or an alternative weather forecast proposed by the Contractor may be used if approved by the Engineer. If precipitation is predicted prior to the end of the following workday, construction scheduling shall be modified, as

required, and the Contractor shall deploy functioning control measures prior to the onset of the precipitation.

Throughout the rainy season, soil-disturbed areas of the project site shall be considered to be non-active whenever soil disturbing activities are expected to be discontinued for a period of fifteen (15) calendar days or more. Areas that will become non-active either during the rainy season or within ten (10) calendar days thereof shall be fully protected with soil stabilization practices such as covering with mulch, temporary seeding, fiber rolls, blankets, etc. within ten (10) calendar days of the discontinuance of soil disturbing activities or prior to the onset of precipitation, whichever is first to occur. Areas that will become non-active either during the rainy season or within ten (10) calendar days thereof shall be fully protected with sediment control BMPs within ten (10) calendar days of the discontinuance of soil disturbing activities or prior to the onset of precipitation, whichever is first to occur.

- b. Non-Stormwater Pollution Control – The Contractor shall implement, year-round and throughout the duration of the project, BMPs included in the SWPPP for sediment tracking, wind erosion, non-stormwater management, and waste management and disposal.
- c. Inspections and Reporting – The Contractor shall regularly inspect the construction site for BMPs identified in the SWPPP to ensure the proper implementation and functioning of BMPs. The Contractor shall identify corrective actions and time frames to address any damaged BMPs or reinstate any BMPs that have been discontinued.

At a minimum, the Contractor shall inspect the construction site as follows:

1. Prior to a forecast storm;
2. After any precipitation which causes runoff capable of carrying sediment from the construction site;
3. At 24 hour intervals during extended precipitation events; and
4. At regular interval of once every 2 weeks.

The construction site inspection checklist provided in the Caltrans Handbooks shall be used to ensure that the necessary BMPs are being properly implemented and are functioning adequately. The Contractor shall submit one copy of each site inspection record to the Engineer.

- d. Maintenance – The Contractor shall maintain construction site BMPs identified in the SWPPP to ensure the proper implementation and functioning of BMPs. If the Contractor or the Engineer identifies a deficiency in the deployment or functioning of an identified BMP, the deficiency shall be corrected by the Contractor immediately, or by a later date and time if requested by the Contractor and approved by the Engineer in writing, but not

later than the onset of subsequent precipitation events. The correction of deficiencies shall be at no additional cost to the County.

- e. Training – The Contractor shall describe the types of training that the Contractor's BMP inspection, maintenance, and repair personnel have received or will receive that is directly related to stormwater pollution prevention.
  
- f. National Pollutant Discharge Elimination System (NPDES) Permit (Required Urban Runoff Management Training) – The Contractor shall provide National Pollutant Discharge Elimination System (NPDES) Permit training for Urban Runoff Management to Contractor's employees and subcontractors if any. Failure to provide Urban Runoff Management training is a violation of Order No. R8-2010-0033, NPDES No. CAS 618033 (Municipal Separate Storm Sewer System NPDES Permit), Section XI.I, for each day of which such failure occurs, and shall in addition, be a breach of the contract with the County. Contractor understands and agrees that NPDES Permit violations are grounds for enforcement action by the Environmental Protection Agency, the State/Regional Water Resources Control Board and the County and may result in permit termination (stop work order), civil and criminal fines, and termination of contract. By submitting a bid, the Contractor certifies to the County that he has trained his employees and subcontractors, if any, for Urban Runoff Management and included sufficient sums in his base bid price to cover such costs of said training.

**Payment:**

Payment for maintaining the SWPPP document and implementing erosion control measures will be paid for under the bid item Water Pollution Control on a force account basis, up to the fixed bid price, for the work performed, including revising and amending the SWPPP, and installing, constructing, maintaining, removing and disposing of BMPs as shown in the SWPPP, as specified in the Caltrans Handbooks and Sample Contractor's Water Quality SAPs, General Permit and these Special Provisions, and as directed by the Engineer.

**DUST CONTROL:**

Within 10 working days of award of the contract, the Contractor shall submit to the Engineer, the 24-hour contact information (name and phone number) for the person responsible for dust control implementation. In the event the Engineer deems dust control mitigation measures are needed, the 24-hour contact person shall be available to implement any and all dust control mitigation measures.

The contractor shall prepare Dust Control and Water Pollution Control Plans. The contractor shall provide dust control for disturbed area during construction and one post construction application. The contractor shall use Gorilla Snot or similar application

during construction and Powdered Soiltec or similar application for the post construction. No separate measurement or payment will be made.

**DEVELOP WATER SUPPLY:**

Develop water supply shall conform to the provisions of Section 17 of the Caltrans Standard Specifications and these Special Provisions.

Full compensation for developing water supply and furnishing watering equipment shall be considered as included in the lump sum price paid for develop water supply and no additional compensation will be allowed therefore.

Attention is directed to the requirements of Section 10 of the Caltrans Standard Specifications, "Dust Control". Water in amounts specified by the Engineer will be used for dust control, and the cost thereof will be included in the lump sum price paid for Develop Water Supply.

**EROSION CONTROL (BONDED FIBER MATRIX)**

Erosion control (bonded fiber matrix) shall comply with Section 20-3, "Erosion Control," of the Caltrans Standard Specifications, and these special provisions and shall consist of applying erosion control materials to embankment, excavation slopes and other areas disturbed by construction activities.

If the slope on which the erosion control to be placed is finished during the rainy season as specified under, "Water Pollution Control," of these special provisions, immediately apply erosion control to the slope.

Prior to installing erosion control materials, soil surface preparation shall conform to the provisions in Section 19-2.05, "Slopes," of the Caltrans Standard Specifications, except that rills and gullies exceeding 50 mm in depth or width shall be leveled. Vegetative growth, temporary erosion control materials, and other debris shall be removed from areas to receive erosion control.

**Materials:**

Materials shall conform to the provisions in Section 20-2, "Materials," of the Standard Specifications and these special provisions.

**Seed**

Seed shall conform to the provisions in Section 20-2.10, "Seed," of the Caltrans Standard Specifications. Individual seed species shall be measured and mixed in the presence of the Engineer.

Seed shall be delivered to the project site in unopened separate containers with the seed tag attached. Containers without a seed tag attached will not be accepted.

A sample of approximately 30 g of seed will be taken from each seed container by the Engineer.

### Commercial Fertilizer

Commercial fertilizer must comply with Section 20-2.02, "Commercial Fertilizer," of the Caltrans Standard Specifications and have a guaranteed chemical analysis within 2 percent of 7 percent nitrogen, 2 percent phosphoric acid and 3 percent water soluble potash.

### Tackifier

Tackifier must be:

1. Nonflammable
2. Nontoxic to aquatic organisms
3. Free from growth or germination inhibiting factors
4. Bonded to the fiber or prepackaged with the fiber by the manufacturer
5. At least 10 percent of the weight of the dry fiber and include the weight of the activating agents and additives
6. Organic, high viscosity colloidal polysaccharide with activating agents, or a blended hydrocolloid-based binder

### Fiber

Fiber must be:

1. Long strand, whole wood fibers, thermo-mechanically processed from clean, whole wood chips
2. Not made from sawdust, cardboard, paper, or paper byproducts.
3. At least 25 percent of fibers 3/8 inch long.
4. At least 50 percent held on a No. 25 sieve.
5. Free from lead paint, printing ink, varnish, petroleum products, seed germination inhibitors, or chlorine bleach.
6. Free from synthetic or plastic materials.
7. At most 7 percent ash.
8. Coloring agent for fiber must be a biodegradable nontoxic coloring agent free from copper, mercury, and arsenic.

### **Construction:**

#### Application

Measure and mix individual seed species in the presence of the Engineer.

Use hydroseeding equipment to apply erosion control to locations shown on the plans:

1. To form a continuous mat with no gaps between the mat and the soil surface.
2. From 2 or more directions to achieve a continuous mat.
3. In layers to avoid slumping and to aid drying.
4. During dry weather or at least 24 hours before predicted rain. Unless manufacturer guidelines allow for application during wet weather.

Do not apply erosion control if:

1. Water is standing on or moving across the soil surface
2. Soil is frozen
3. Air temperature is below 40 °F during the tackifier curing period unless allowed by the tackifier manufacturer and approved by the Engineer

Apply erosion control in two applications:

1. Apply bonded fiber (fiber and tackifier) in the first application according to the following rates:

#### First Application

Slope Rate	Pounds Per Acre <sup>1</sup> (Slope Measurement)
Flatter than 3:1(horizontal:vertical)	1,100
From 3:1 to 2:1(horizontal:vertical)	1,500

<sup>1</sup>Application rates of bonded fiber must be increased by 500 pounds per acre for surfaces roughened by techniques such as sheepfoot-rolled, ripped, tracked, and imprinted.

2. Combine seed, commercial fertilizer, and bonded fiber (fiber and tackifier) for the second application according to the following spread rates and apply the mixture within 60 minutes of adding seed to the mixture:

#### Second Application

Material	Pounds Per Acre <sup>1</sup> (Slope Measurement)
Seed	60
Commercial Fertilizer	500
Bonded Fiber (Fiber and Tackifier)	500

<sup>1</sup>Application rates of bonded fiber must be increased by 500 pounds per acre for surfaces roughened by techniques such as sheepfoot-rolled, ripped, tracked, and imprinted.

The ratio of water to bonded fiber (fiber and tackifier) in the mixture must be as recommended by the manufacturer.

Do not over-spray erosion control materials onto the traveled way, sidewalks, lined drainage channels, or existing vegetation.

**Payment:**

Erosion control (bonded fiber matrix) will be measured by the square yard, as designated in the Engineer's Estimate. The area will be calculated on the basis of computed slope measurements.

The contract price paid per square yard, for erosion control (bonded fiber matrix) includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in erosion control (bonded fiber matrix), complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

**COLD PLANE ASPHALT CONCRETE PAVEMENT:**

The Contractor shall cold plane the asphalt concrete pavement to a minimum depth of 0.10' as shown on the approved plans or as directed by the Engineer.

The cold plane machine shall have a cutter head at least 72 inches wide and shall be operated so as not to produce fumes or smoke.

The depth, width and shape of the cut shall be as indicated on the typical cross sections. The outside lines of the planned area shall be neat and uniform. The road surfacing to remain in place shall not be damaged in any way.

The material planed from the roadway surface, including material deposited in existing gutters or on the adjacent traveled way shall become the property of the Contractor and shall be immediately removed from the site of the work and disposed of as provided in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way", of the Caltrans Standard Specifications. The removal crew shall follow within 50 feet of the planer, unless otherwise directed by the Engineer.

Nothing in these Special Provisions shall relieve the Contractor from his responsibilities as provided in Section 7-1.09, "Public Safety" of the Caltrans Standard Specifications.

The contract unit bid price paid per square yard for Cold Plane Asphalt Concrete Pavement shall include full compensation for providing all labor, tools, equipment and disposing of the grindings and no additional compensation will be allowed therefore.

## **ROADWAY EXCAVATION:**

Earthwork shall conform to the provisions of Section 19 of the Caltrans Standard Specifications and these Special Provisions.

At road connections and at limits of asphalt paving, existing pavement shall be header cut, plans show 0.10' depth and 2' minimum by width of existing surfacing. Full compensation for furnishing all labor, tools and doing all the work necessary including grinding, and sawcutting shall be considered as included in the contract prices paid per ton for the various asphalt concrete items and no additional compensation will be allowed therefore.

Existing pavement including any base material shall be cut back to neat lines and removed as shown on the plans or as directed by the Engineer. Excess material will become the property of the Contractor and will be disposed of as provided in Section 7-1.13 of the Caltrans Standard Specifications.

Pavement and base material removal including asphalt concrete dikes, curb & gutter, sidewalks, steps and driveways will be considered as roadway excavation for payment purposes.

Following items are included in the roadway excavation and no separate payment will be made:

Removal of existing pavement, asphalt dike, curb & gutter, sidewalks, steps and driveways and base material.

Sawcut and grinding existing pavement.

The unit price paid per cubic yard for Roadway Excavation shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved including compaction as directed by the Engineer and no additional compensation will be allowed therefore.

## **EARTHWORK**

Included under "Earthwork" will be all operations involved in grading roadway excavation or embankment construction required to bring the roadway section to the approved grade, and such drainage and structure excavation and backfill as may be required. These operations to include the performance of all incidental work of whatsoever nature required to construct the roadway subgrade and the approaches thereto, and to maintain them in the form specified until the final acceptance.

All earthwork shall conform with the applicable provisions of Section 19 of the Caltrans Standard Specifications except as herein modified.



The provisions of the second paragraph of Section 19-5.03 of the Caltrans Standard Specifications shall not be required.

There shall be no additional measurement or payment will be made for Roadway Earthwork Excavation or Embankment and shall be considered included in the Clearing and Grubbing.

### **LOCAL BORROW**

Local Borrow generated within the project limits shall comply with the requirements in the Caltrans Standard Specifications and these special provisions. Local Borrow incorporated into the work shall conform to the provisions of Section 19-7.01 of the Caltrans Standard Specifications and these Special Provisions. The material shall have a sand equivalent value of 20 or greater, and an R-value of 40 or greater.

Local Borrow shall be generated from within the project limits for incorporation into the project. There will not be a designated borrow site established, and materials from throughout the project limits may be utilized as borrow provided that the material meets the requirements of these Special Provisions.

Local Borrow shall be inorganic, non-expansive granular soils free from rocks or lumps greater than 8 inches in maximum dimension, except as allowed herein. All provisions for water pollution, air pollution, and sound control that apply within the limits of the contract shall apply to all borrow sites utilized by the Contractor.

All suitable material generated within the right-of-way shall be incorporated into the project. Any large rocks (boulders, etc.) shall be broken into sizes appropriate for its use. Acceptable uses shall include, but shall not be limited to embankment, deep fill and rip-rap.

All rock which cannot be broken into pieces smaller than 1.0 ton by mechanical means shall be blasted in accordance with the Special Provisions for such work. Full compensation for such rock blasting shall be considered as included in the unit price paid for Rock Excavation, and no additional compensation will be allowed therefore.

Payment for incorporating all material within the right-of-way into the project shall be paid as Clearing and Grubbing, including transportation from excavation site to placement site, and including all labor, equipment, materials and incidentals necessary, and no additional compensation will be allowed therefore.

### **Imported Borrow:**

Imported borrow shall conform to the provisions of Section 19-7.02 of the Caltrans Standard Specifications, and shall be material that is similar or better in quality than the existing basement soil.

Payment for Imported Borrow shall be paid for under the bid item Imported Borrow on a lump sum basis and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, for doing all work involved as directed by the Engineer.

**Relative Compaction:**

Whenever relative compaction is specified to be determined by Test Method No. Calif. 216, the in-place density may be determined by Test Method No. Calif. 231. The in-place density required by Test Method No. Calif. 312 may be determined by Test Method No. 231. The wet weight or dry weight basis and English Units of Measurement may be used at the option of the Materials Engineer.

**FINISHING ROADWAY:**

Finishing roadway shall conform to Section 22 of the Caltrans Standard Specifications. Payment will be made on a lump sum basis.

**AGGREGATE BASE:**

Aggregate base shall be Class 2 and shall conform to the provisions in Section 26, "Aggregate Bases" of the Caltrans Standard Specifications and these Special Provisions and shall meet the gradation requirements for 3/4" inch maximum.

The first paragraph of Section 26-102A "Class 2 Aggregate Base" is modified to read as follows:

Aggregate for Class 2 aggregate base shall be free from organic matter and other deleterious matter, and shall be of such nature that it can be compacted readily under watering and rolling to form a firm and stable base. Aggregate may consist of broken and crushed asphalt concrete or portland cement concrete and may contain crushed aggregate base or other rock materials. The material may contain no more than 3 percent brick by weight as determined by California test method 202 as modified: Brick material retained on a No. 4 sieve shall be identified visually and separated manually. Brick quantification shall be based on total weight of dry sample. Also, material retained on the 4.75 mm (No. 4) sieve shall contain no more than 15 percent of particles (gravel) that have no more than one fractured face.

The Quality Requirements contained in Section 26-1.02A is modified to read:

**QUALITY REQUIREMENTS**

<b>Test</b>	<b>Contract Compliance</b>
Resistance (R-Value)	
Virgin Rock	78 Min.
Crushed Miscellaneous	80 Min.
Sand Equivalent	35 Min.
Durability Index	35 Min.
Percentage Wear	
100 Revolutions	15 Max.
500 Revolutions	52 Max.

Quantities of aggregate base will be paid for at the contract unit price per cubic yard, and in accordance with the provisions of Sections 26-1.06 and 26-1.07 of the Caltrans Standard Specifications.

**PREPARING EXISTING ROADBED FOR RESURFACING:**

When asphalt concrete is to be spread over existing pavement, the existing pavement shall first be cleaned of all dirt and extraneous material. All thermoplastic markings shall be removed prior to the application of paint binder. The area shall be sprayed with paint binder prior to resurfacing.

The area to which paint binder has been applied shall be closed to public traffic. Care shall be taken to avoid tracking binder material onto existing pavement surfaces beyond the limits of construction. Full compensation for furnishing all labor, tools, and materials necessary to clean tracked paint binder shall be considered as included in the contract price paid per ton for Asphalt Concrete.

Asphalt concrete shall be placed on all existing surfacing, including curve widening, public road connections, and left turn pockets, unless otherwise directed by the Engineer.

All raised pavement markers shall be removed prior to the application of paint binder.

The Contractor will be required to place and remove temporary pavement markings as directed by the Engineer.

At the end of each day's work, preceding a non-working day or a day on which the Contractor does not work, the distance between the ends of the adjacent surfaced lanes shall not be greater than 10 feet nor less than 5 feet.

The Contractor shall adjust to grade any utility valve covers encountered within the project limits, as required, for those utility valves that are provided with slip cans and are

adjustable without the replacement of parts or the removal of concrete collars. In cases where the owning utility company insists upon upgrades in the standards, or when additional parts or the removal of concrete collars are required for the adjustment, said adjustment will be the responsibility of the owning utility company.

The Contractor shall lower manholes and valves when and as necessary for the protection of the traveling public during construction, and shall coordinate all work on said facilities with the owning utility companies. Final adjustment to grade will be the responsibility of the owning utility company, except as provided herein.

Said work shall be performed in accordance with Section 15-2.05A, "Frames, Covers, Grates, and Manholes" of the Caltrans Standard Specifications. Full compensation for adjustment of valve covers, including initial lowering of valves and manholes when required, shall be considered as included in the contract price paid for asphalt concrete.

Except as otherwise provided, full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in preparing existing roadbed as shown on the plans, as specified herein, and as directed by the Engineer shall be considered as included in the contract prices paid for the various asphalt concrete items.

**HOT MIX ASPHALT:**

The asphalt concrete shall be Type "A" and shall conform to the requirements of Section 39 of the Caltrans Standard Specifications and the following:

Aggregate grading shall be three-quarter inch (3/4") maximum, medium for base course and three-quarter inch (3/4") maximum, medium for the final course. One-half inch (1/2") maximum, medium for the final course shall be used if shown on the plans or as directed by the Engineer.

The asphalt lift thickness table, as shown in Section 39-6.01 of the Caltrans Standard Specifications, "General Requirements" of the Standard Specifications, is revised as follows:

Total Thickness Shown on Plans	Minimum No. of Layers	Top Layer Thickness (foot)		Next Lower Layer Thickness (foot)		All Other Lower Layer Thickness (foot)	
		Min.	Max.	Min.	Max.	Min.	Max.
0.24-foot or less <sup>a</sup>	1	-	-	-	-	-	-
0.25-foot	2 <sup>b</sup>	0.12	0.13	0.12	0.13	-	-
0.26 - 0.46 foot	2	0.12	0.21	0.14	0.25	-	-
0.47-foot or more	3 or more	0.15	0.21	0.15	0.25	0.17	0.25

Footnotes to asphalt thickness table are revised as follows:

- a. No Change.
- b. One layer of 0.25 foot thick may be placed as approved by the Engineer. When the Traffic Index specified is 5.5 or below, two layers shall be placed.

**Asphalts:**

Asphalt shall conform to the provisions in this Section, "Asphalts". Section 92, "Asphalts" of the Caltrans Standard Specifications shall not apply.

Asphalt shall consist of refined petroleum or a mixture of refined liquid asphalt and refined solid asphalt, prepared from crude petroleum. Asphalt shall be:

1. Free from residues caused by the artificial distillation of coal, coal tar, or paraffin;
2. Free from water;
3. Homogeneous.

**General:**

The Contractor shall furnish asphalt in conformance with the State of California Department of transportation's Certification Program for Suppliers of Asphalt". The Department maintains the program requirements, procedures, and a list of approved suppliers at <http://www.dot.ca.gov/hq/esc/Translab/fpmcoc.htm>.

The Contractor shall ensure the safe transportation, storage, use, and disposal of asphalt.

The Contractor shall prevent the formation of carbonized particles caused by overheating asphalt during manufacturing or construction.

**Grade:**

Performance graded (PG) asphalt binder shall conform to the following:

Property	AASHTO Test Method	Specification Grade		
		PG 64-10	PG 64-16	PG 70-10
<b>Original Binder</b>				
Flash Point, Minimum °C	T48	230	230	230
Solubility, Minimum % <sup>b</sup>	T44	99	99	99
Viscosity at 135 °C, Maximum, Pa·s	T316	3.00	3.00	3.00
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	64 1.00	64 1.00	70 1.00
RTFO Test <sup>e</sup> , Mass Loss, Maximum, %	T240	1.00	1.00	1.00
<b>RTFO Test Aged Binder</b>				
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	64 2.20	64 2.20	70 2.20
Ductility at 25 °C Minimum, cm	T51	75	75	75
PAV <sup>f</sup> Aging, Temperature, °C	R28	100	100	110
<b>RTFO Test and PAV Aged Binder</b>				
Dynamic Shear, Test Temp. at 10 rad/s, °C Maximum G*/sin(delta), kPa	T315	31 <sup>d</sup> 5000	28 <sup>d</sup> 5000	34 <sup>d</sup> 5000
Creep Stiffness, Test Temperature, °C Maximum S-value, Mpa Minimum M-value	T313	0 300 0.300	-6 300 0.300	0 300 0.300

**Notes:**

- a. Not used.
- b. The Engineer will waive this specification if the supplier is a Quality Supplier as defined by Department's "Certification Program for Suppliers of Asphalt".
- c. The Engineer will waive this specification if the supplier certifies the asphalt binder can be adequately pumped and mixed at temperatures meeting applicable safety standards.
- d. Test the sample at 3 °C higher if it fails at the specified test temperature. G\* sin(delta) shall remain 5000 kPa maximum.
- e. "RTFO Test" means the asphaltic residue obtained using the Rolling Thin Film Oven Test, AASHTO Test Method T240 or ASTM Designation: D2827.
- f. "PAV" means Pressurized Aging Vessel.

Performance graded polymer modified asphalt binder (PG Polymer Modified) is:

Property	AASHTO Test Method	Specification Grade		
		PG 58-34 PM	PG 64-28 PM	PG 76-22 PM
<b>Original Binder</b>				
Flash Point, Minimum °C	T48	230	230	230
Solubility, Minimum % <sup>b</sup>	T44 <sup>c</sup>	98.5	98.5	98.5
Viscosity at 135 °C, <sup>d</sup> Maximum, Pa.s	T316	3.00	3.00	3.00
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	58 1.00	64 1.00	76 1.00
RTFO Test, Mass Loss, Maximum, %	T240	1.00	1.00	1.00
<b>RTFO Test Aged Binder</b>				
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	58 2.20	64 2.20	76 2.20
Dynamic Shear, Test Temp. at 10 rad/s, °C Maximum (delta), %	T315	Note e 80	Note e 80	Note e 80
Elastic Recovery <sup>f</sup> Test Temp., °C Minimum recovery, %	T301	25 75	25 75	25 65
PAV <sup>g</sup> Aging, Temperature, °C	R28	100	100	110
<b>RTFO Test and PAV Aged Binder</b>				
Dynamic Shear, Test Temp. at 10 rad/s, °C Maximum G*/sin(delta), kPa	T315	16 5000	22 5000	31 5000
Creep Stiffness, Test Temperature, °C Maximum S-value, MPa Minimum M-value	T313	-24 300 0.300	-18 300 0.300	-12 300 0.300

**Notes:**

- a. Do not modify PG Polymer Modified using acid modification.
- b. The Engineer waives this specification if the supplier is a Quality Supplier as defined by the Department's "Certification Program for Suppliers of Asphalt".
- c. The Department allows ASTM D 5546 instead of AASHTO T 44.
- d. The Engineer waives this specification if the supplier certifies the asphalt binder can be adequately pumped and mixed at temperatures meeting applicable safety standards.
- e. Test temperature is the temperature at which G\*/sin(delta) is 2.2 kPa. A graph of log G\*/sin(delta) plotted against temperature may be used to determine the test temperature when G\*/sin(delta) is 2.2 kPa. A graph of (delta) versus temperature may be used to determine delta at the temperature when G\*/sin(delta) is 2.2 kPa. The Engineer also accepts direct measurement of (delta) at the temperature when G\*/sin(delta) is 2.2 kPa.
- f. Tests without a force ductility clamp may be performed.
- g. "PAV" means Pressurized Aging Vessel.

#### Sampling:

The Contractor shall provide a sampling device in the asphalt feed line connecting the plant storage tanks to the asphalt weighing system or spray bar. The sampling device shall be accessible between 24 and 30 inches above the platform. The Contractor shall provide a receptacle for flushing the sampling device.

The sampling device shall include a valve:

1. With a diameter between 1/2 and 3/4 inches;
2. Manufactured in a manner that a one-quart sample may be taken slowly at any time during plant operations;
3. Maintained in good condition.

The Contractor shall replace failed valves.

In the presence of the Engineer, the Contractor shall take 2 one-quart samples per operating day. The Contractor shall provide round friction top containers with one-quart capacity for storing samples.

#### Applying Asphalt:

Unless otherwise specified, the Contractor shall heat and apply asphalt in conformance with the provisions in Section 93, "Liquid Asphalts" of the Caltrans Standard Specifications.

Section 39-2.01, "Asphalts" of the Caltrans Standard Specifications, is replaced in its entirety with the followings:

Asphalt binder to be mixed with aggregate shall conform to the provisions in "Asphalts" of these Special Provisions.

The grade of asphalt binder shall be 64-10 (Inland Valleys).

Liquid asphalt for prime coat shall conform to the provisions in Section 93, "Liquid Asphalts" of the Caltrans Standard Specifications and shall be Grade 64-10 unless otherwise designated by the contract item or otherwise specified in the Special Provisions.

Asphaltic emulsion for paint binder (tack coat) shall conform to the provisions in Section 94, "Asphaltic Emulsion" of the Caltrans Standard Specifications for the rapid-setting or slow-setting type and grade approved by the Engineer.



Section 39-3.01B (1) shall be amended to include:

Aggregate of the 3/4 inch or 1/2 inch maximum size and aggregate for asphalt concrete base shall be separated into 3 or more sizes and each size shall be stored in separate bins. If 3 sizes are used, one bin shall contain that portion of the material which will pass the maximum size specified and be retained on a 3/8 inch sieve; one bin shall contain that portion of the material which will pass a 3/8 inch sieve and be retained on a No. 8 sieve; and one bin shall contain that portion of the material which will pass a No. 8 sieve.

Aggregate of 3/8 inch maximum size shall be separated into 2 sizes and each size shall be stored in separate bins. One bin shall contain that portion of the material which will pass the maximum size specified and be retained on a No. 8 sieve and one bin shall contain that portion of the material which will pass a No. 8 sieve.

The bin containing the fine material shall not contain more than 15 percent of material retained on the No. 8 sieve. The material in any of the other bins shall not contain more than 15 percent of material passing a No. 8 sieve. Failure to comply with this requirement shall be corrected immediately, and the material in the bins not meeting these requirements shall be re-screened or wasted.

All asphalt concrete for this project shall be supplied from one source unless approved by the Engineer. Said source shall be listed on the Contractors Source of Materials List as required in Section 6 of the Caltrans Standard Specifications.

Asphaltic emulsion shall be furnished and applied as provided in Section 39-4.02 of the Caltrans Standard Specifications.

The Contractor shall adjust to finish grade any valve covers encountered within the project limits, as required, for those utility valves that are provided with slip cans and are adjustable without the replacement of parts or the removal of concrete collars. In cases where the owning utility company insists upon upgrades in the standards, or when additional parts or the removal of concrete collars are required for the adjustment, said adjustment will be the responsibility of the owning utility company.

The Contractor shall lower manholes and valves when and as necessary for the protection of the traveling public during construction, and shall coordinate all work on said facilities with the owning utility companies. Final adjustment to grade will be the responsibility of the owning utility company, except as provided herein.

Said work shall be performed in accordance with Section 15-2.05A, "Frames, Covers, Grates, and Manholes" of the Caltrans Standard Specifications. Full compensation for adjustment of valve covers, including initial lowering of valves and manholes when required, shall be considered as included in the contract price paid for asphalt concrete.

In addition to the provisions in Section 39-5.01, "Spreading Equipment" of the Caltrans Standard Specifications, asphalt paving equipment shall be equipped with automatic screed controls and a sensing device or devices.

When placing asphalt concrete to the lines and grades established by the Engineer, the automatic controls shall control the longitudinal grade and transverse slope of the screed. Grade and slope references shall be furnished, installed, and maintained by the Contractor. Should the Contractor elect to use a ski device, the minimum length of the ski device shall be 30 feet. The ski device shall be a rigid one piece unit and the entire length shall be utilized in activating the sensor.

When placing the initial mat of asphalt concrete on existing pavement, the end of the screed nearest the centerline shall be controlled by a sensor activated by a ski device not less than 30 feet. The end of the screed farthest from centerline shall be controlled by an automatic transverse slope device set to reproduce the cross slope designated by the Engineer, by a sensor activated by a similar ski device or as directed by the Engineer.

When paving contiguously with previously placed mats, the end of the screed adjacent to the previously placed mat shall be controlled by a sensor that responds to the grade of the previously placed mat and will reproduce the grade in the new mat within a 0.12 inch tolerance. The end of the screed farthest from the previously placed mat shall be controlled in the same way it was controlled when placing the initial mat.

Should the methods and equipment furnished by the Contractor fail to produce a layer of asphalt concrete conforming to the provisions, including straightedge tolerance, of Section 39-6.03, "Compacting" of the Caltrans Standard Specifications or elsewhere in these Special Provisions, the paving operations shall be discontinued and the Contractor shall modify the equipment or methods, or furnish substitute equipment.

Should the automatic screed controls fail to operate properly during a day's work, the Contractor may manually control the spreading equipment for the remainder of that day. However, the equipment shall be corrected or replaced with alternative automatically controlled equipment conforming to the provisions in this section before starting another day's work.

#### **General Criteria For Profiling:**

In addition to the straightedge provisions in Section 39-6.03, "Compacting" of the Caltrans Standard Specifications, asphalt concrete pavement shall conform to the surface tolerances specified herein.

The uppermost layer of asphalt concrete surfacing shall be profiled in the presence of the Engineer using a California Profilograph or equivalent in conformance with California Test 526 and as specified in these Special Provisions.

The California Profilograph or equivalent will not be required for the following areas of the pavement surface but shall conform to the straightedge requirements in Section 39-6.03, "Compacting" of the Caltrans Standard Specifications:

1. Pavement with a total thickness less than 0.24 foot;
2. Pavement on horizontal curves with a centerline curve radius of less than 1,000 feet and the pavement within the superelevation transition on those curves;
3. Pavement placed in a single lift when required by the Special Provisions;
4. Pavement with extensive grade or cross slope correction which does not receive advance leveling operations in conformance with the provisions in Section 39-6.02, "Spreading" of the Standard Specifications;
5. Pavement for ramps and connectors with steep grades and high rates of superelevation, as determined by the Engineer;
6. Shoulders and miscellaneous areas.

The Contractor shall conform to California Test 526, except a zero (null) blanking band shall be used for determining the Profile Index. Prior to beginning profiles, the profilograph shall be calibrated in the presence of the Engineer. Two profiles shall be obtained within each traffic lane, 3 feet from and parallel with the edges of the lane.

Pavements profiled shall conform to the following Profile Index requirements:

1. Pavement on tangent alignment and pavement on horizontal curves having a centerline curve radius of 2,000 feet or more shall have a Profile Index of 0.16 foot or less for each 330 feet section profiled;
2. Pavement on horizontal curves having a centerline curve radius of 1,000 feet or more but less than 2,000 feet, including the pavement within the superelevation transition of these curves, shall have a Profile Index of 0.32 foot or less for each 330 feet section profile;
3. Pavement within any 330 feet section, containing high point areas with deviations in excess of 0.025 foot in a length of 25 feet or less, when tested in conformance with the requirements in California Test 526, shall be corrected by the Contractor regardless of the Profile Index.

The Contractor shall complete initial runs of the profilograph prior to opening the pavement to public traffic. If initial profiles can not be made prior to opening the pavement to public traffic, the initial runs of the profilograph shall be made the next day that traffic control is permitted for the area to be profiled.

Areas of the top surface of the uppermost layer of asphalt concrete pavement that do not meet the specified surface tolerances shall be brought within tolerance by abrasive grinding.

At a minimum, the pedestrian path of travel at street intersections shall meet all required ADA standards. Therefore, to conform to existing conditions and/or to achieve the required four-foot level area (maximum of 2.0% crossfall) at the top portion of the curb ramp, it may be necessary to extend the work beyond the BCR/ECR in certain instances.

Abrasive grinding shall be performed to reduce individual deviations in excess of 0.025 foot, and to reduce the Profile Index of the pavement to be within the specified tolerance. Areas which have been subjected to abrasive grinding shall receive a seal coat. Deviations in excess of 0.025 foot which cannot be brought into specified tolerance by abrasive grinding shall be corrected by either (1) removal and replacement or (2) placing an overlay of asphalt concrete. The corrective method for each area shall be selected by the Contractor and shall be approved by the Engineer prior to beginning the corrective work. Replacement or overlay pavement not meeting the specified tolerances shall be corrected by the methods specified above. Corrective work shall be at the Contractor's expense. The Contractor shall run profilograms on the areas that have received abrasive grinding or corrective work until the final profilograms indicate the Profile Index of the area is within the specified tolerance.

When abrasive grinding is used to bring the top surface of the uppermost layer of asphalt concrete surfacing within the specified surface tolerances, additional abrasive grinding shall be performed as necessary to extend the area ground in each lateral direction so that the lateral limits of grinding are at a constant offset from, and parallel with, the nearest lane line or pavement edge, and in each longitudinal direction so that the grinding begins and ends at lines normal to the pavement centerline, within a ground area. Ground areas shall be neat rectangular areas of uniform surface appearance.

The original of the final profilograms that indicate the pavement surface is within the Profile Index specified shall become the property of the County and shall be delivered to the Engineer prior to acceptance of the contract.

**Payment:**

Hot Mix Asphalt will be paid for at a unit price per ton as a combined item, including mineral aggregate and asphalt binder in place on the roadbed.

Full compensation for furnishing and applying asphaltic emulsion (paint binder) shall be considered as included in the contract price paid for Hot Mix Asphalt.

**COMPENSATION ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS:**

The provisions of this section shall apply only to the following contract items:

ITEM CODE	ITEM
390130	Hot Mix Asphalt

The compensation payable for asphalt binder used in hot mix asphalt and tack coat will be increased or decreased in conformance with the provisions of this section for paving asphalt price fluctuations exceeding 10 percent (lu/lb is greater than 1.10 or less than 0.90) which occur during performance of the work.

The quantity of asphalt binder used in tack coat will be determined by multiplying the item quantity for tack coat included in a monthly estimate by the minimum percent residue specified in Section 94, "Asphaltic Emulsions" of the Standard Specifications. The asphaltic emulsion minimum percent residue will be based on the type of emulsion used by the Contractor.

At the Contractor's option, the Contractor may provide actual daily test results for asphalt binder residue for the tack coat used. Test results provided by the Contractor shall be from an independent testing laboratory that participates in the AASHTO Proficiency Sample Program. The Contractor shall take samples of asphaltic emulsion from the distributor truck at mid-load from a sampling tap or thief. Two separate one-half (½) gallon samples shall be taken in the presence of the Engineer. The Contractor shall provide one sample to the Contractor's independent testing laboratory within 24 hours of sampling. The second sample shall be given to the Engineer. The test results from the Contractor independent testing laboratory shall be delivered to the Engineer within 10 days from sample date.

The adjustment in compensation will be determined in conformance with the following formulae when the item of hot mix asphalt or tack coat or both are included in a monthly estimate:

- A. Total monthly adjustment = AQ
- B. For an increase in paving asphalt price index exceeding 10 percent:  
$$A = 0.90 (lu/lb - 1.10) lb$$
- C. For a decrease in paving asphalt price index exceeding 10 percent:  
$$A = 0.90 (lu/lb - 0.90) lb$$
- D. Where:

A = Adjustment in dollars per ton of paving asphalt used to produce hot mix asphalt and asphaltic emulsion residue used as tack coat rounded to the nearest \$0.01.

Iu = The California Statewide Paving Asphalt Price Index which is in effect on the first business day of the month within the pay period in which the quantity subject to adjustment was included in the estimate.

Ib = The California Statewide Paving Asphalt Price Index for the month in which the bid opening for the project occurred.

Q = Quantity in tons of asphalt binder that was used in producing the quantity of hot mix asphalt shown under "This Estimate" on the monthly estimate using the amount of asphalt binder determined by the Engineer plus the quantity in tons of asphalt binder that would have been used as residue in the tack coat shown under "This Estimate" on the monthly estimate.

The adjustment in compensation will also be subject to the following:

- A. The compensation adjustments provided herein will be shown separately on payment estimates. The Contractor shall be liable to the State for decreased compensation adjustments and the Department may deduct the amount thereof from moneys due or that may become due the Contractor.
- B. Compensation adjustments made under this section will be taken into account in making adjustments in conformance with the provisions in Section 4-1.03B, "Increased or Decreased Quantities" of the Standard Specifications.
- C. In the event of an overrun of contract time, adjustment in compensation for paving asphalt included in estimates during the overrun period will be determined using the California Statewide Paving Asphalt Price Index in effect on the first business day of the month within the pay period in which the overrun began.

The California Statewide Paving Asphalt Price Index is determined each month on the first business day of the month by the Department using the median of posted prices in effect as posted by Chevron, Mobil, and Unocal for the Buena Vista, Huntington Beach, Kern River, Long Beach, Midway Sunset, and Wilmington fields.

In the event that the companies discontinue posting their prices for a field, the Department will determine an index from the remaining posted prices. The Department reserves the right to include in the index determination the posted prices of additional fields.

The California Statewide Paving Asphalt Price Index is available on the Division of Engineering Services website at: [http://www.dot.ca.gov/hq/esc/oe/asphalt\\_index/astable.html](http://www.dot.ca.gov/hq/esc/oe/asphalt_index/astable.html)

**CONCRETE CURB AND/OR CURB AND GUTTER, CONCRETE SIDEWALK, CONCRETE DRIVEWAYS, AND APPROACHES, CONCRETE CROSS-GUTTERS AND SPANDRELS:**

The above items shall conform to the details shown in the Riverside County Road Improvement Standards, County of Riverside Specifications, Caltrans Standard Plans, and applicable portions of Sections 51, 73, and 90 of Caltrans Standard Specifications, except as herein modified.

The Contractor shall take measures to minimize the extent of graffiti, footprints, tire marks, etc., in the fresh concrete. The Contractor shall be responsible for all markings and shall remove or obliterate them to the satisfaction of the Engineer.

Concrete curb and gutter shall conform to Riverside County Road Improvement Standard Number 200, 202 and 211. Sidewalk shall conform to Riverside County Road Improvement Standard Number 400 and 401, width and location, modified as shown on the plans. The quantity of sidewalk to be paid for will be exclusive of driveways, access ramps and drainage facilities, (such as curb inlets and outlets). Driveways shall conform to Riverside County Road Improvement Standard Number 207, and the Street Improvement Plans. Driveways shall be constructed as the locations and widths as specified on the Street Improvement Plans.

Cross gutter shall conform to Riverside County road Improvement Standard Number 209.

Class B Concrete shall be used to construct curbs, gutters and driveways.

**Reasons for Rejection**

1. Transverse cracks through the curb and gutter, exceeding 0.01 foot in width at any point.
2. Vertical displacement exceeding 0.01 feet, or which causes water to pond in the gutter for a distance exceeding 2 feet.
3. Serious or extensive surface imperfections.
4. Transverse cracks causing 5 feet or less of curb and gutter to be "floating," or unattached to other curb and gutter.

Cracks causing 25 square feet or less of sidewalks, approaches, cross gutters, or aprons to be "floating," or unattached to other approaches, cross gutters, or aprons.

Rejected concrete work shall be removed by means of a sawcut at a score line. If no score line exists, the minimum removed area or unscored area left in place shall be 25 square feet and the minimum width shall be 4 feet.

**Measurement and Payment:**

Payment for concrete curbs, gutters, cross gutter, sidewalk, and driveways will be paid for at the Contract Unit Price as shown in the Bid, and shall include full compensation for furnishing all labor, materials (including water), tools, equipment and incidentals for construction. Rejected concrete work shall be removed and replaced by the Contractor with no additional compensation.

No deduction will be made for the depressed portions of the curb in computing the linear quantities of the concrete to be paid for.

The furnishing and placing of expansion joints and any other work incidental thereto. Expansion joints shall be 1/2" wide.

**CONCRETE CURB RAMPS:**

The above items shall conform to the details shown in the Riverside County Road Improvement Standards, County of Riverside Specifications, Caltrans Standard Plans, and applicable portions of Sections 51, 73, and 90 of Caltrans Standard Specifications, except as herein modified. Class 3 concrete shall be used.

Access ramp for intersection shall conform to Riverside County Road Standard Number 403 and Caltrans Standard Plans Number A87B. Unit bid price shall include all labor and materials for all work to construct access ramp including but not limited to grooves, borders, and concrete required from B.C.R. to E.C.R.

Preparation of subgrade for the concrete structures shall be done in conformance with the requirements of Section 73-1.02 of the Caltrans Standard Specifications.

Excess material resulting from the excavation of the subgrade shall be disposed of as elsewhere provided in these Special Specifications. Full compensation for the removal of existing concrete structures shall be included in the contract bid prices for such items.

The Contractor is responsible for meeting requirements of all American with Disability Act (ADA).

Construction of curb ramps shall include, but not be limited to, the following:

- 1) Removal and disposal of existing sidewalk, curb, and/or curb and gutter and existing soil and aggregate as required;
- 2) Establishing grades, and assuring that all grades are met;



- 3) Performing all grading and compaction – including all required aggregate import, as directed by the Engineer and in accordance with Riverside County Road Standard Number 403 and Caltrans Standard Plans Number A87B;
- 4) Construction of new sidewalk;
- 5) All scoring/grooving and required saw cutting;
- 6) Repair of existing asphalt and PCC surfacing;
- 7) Installing 1/2" wide expansion joints;
- 8) All landscaping, and related work, to return the area adjacent to the curb ramp to its original condition and to conform the area to the new improvements;

At a minimum, the area curb ramp shall meet all required ADA standards. Therefore, to conform to existing conditions and/or to achieve the required four-foot level area (maximum of 2.0% crossfall) at the top portion of the curb ramp, it may be necessary to extend the work beyond the BCR/ECR in certain instances.

If aggregate base or approved select material is required by the relevant County Standard to be placed under sidewalk, curb, curb and gutter or other structure due to unsuitable existing soil, then the excavation and disposal of the unsuitable material, and the placement and compaction of the base or select material shall be considered as included in the unit price paid for the structure, and no additional compensation will be allowed therefore.

The contract unit price paid per each for Curb Ramps, shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved in the construction and complete in place including the furnishing and placing of expansion joints.

#### **REMOVE TRAFFIC STRIPES AND PAVEMENT MARKINGS:**

Where blast cleaning/grinding is used for the removal of painted/thermoplastic traffic stripes and pavement markings or for removal of objectionable material, and such removal operation is being performed within 10 feet of a lane occupied by public traffic, the residue including dust shall be removed immediately after contact between the sand and the surface being treated. Such removal shall be by wet abrasive blasting, hydro-blasting or vacuum blasting, and shall comply with AQMD regulations.

Contractor may use temporary markers in lieu of temporary striping tape.

Blast cleaning/grinding for removal of traffic stripe shall feathered out to irregular and varying widths.

Pavement marking shall be removed by blast cleaning/grinding a rectangular area, rather than just lettering or markings, so the old message cannot be identified.

After removal of traffic stripes and pavement markings, a fog seal coat shall be applied in conformance with the provisions in Section 37, "Bituminous Seals," of the Caltrans Standard Specifications and the following:

If removal of existing striping is performed more than 24 hours prior to final striping, the Contractor shall place reflective temporary striping tape throughout the limits of sandblasting, to provide channelization of traffic, for all lanes of travel.

Temporary striping tape shall be removed subsequent to final striping.

Nothing in these Special Provisions shall relieve the Contractor from his responsibilities as provided in Section 7-1.09, "Public Safety," of the Caltrans Standard Specifications.

There will be no payment made for Removal of Traffic Stripers and Pavement Markings but it shall be considered incidental to traffic control systems.

#### **THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING:**

Thermoplastic pavement marking shall conform to the provisions in Sections 84-1, "General," and 84-2, "Thermoplastic Traffic Stripes and Pavement Markings," of the Caltrans Standard Specifications and these Special Provisions.

At the option of the Contractor, STAMARK Brand Pavement Tape, Pliant Polymer Grade, manufactured by the 3M Company; or Cata-Tile Elastoplastic Roadmarking Tile, manufactured by the Cataphote Division of the Ferro Corporation; or STAMARK Brand Pavement Tape, Bisymmetric 1.75 Grade, manufactured by the 3M Company, may be placed instead of the thermoplastic crosswalk and pavement marking specified herein. Pavement tape and roadmarking tile, if used, shall be installed in accordance with the manufacturer's specifications. If pavement tape or roadmarking tile is placed instead of thermoplastic pavement marking, the pavement tape or roadmarking tile will be measured and paid for as thermoplastic crosswalk and pavement marking.

There shall be no separate payment made for Thermoplastic Pavement Marking and shall be paid under Signing and Striping as a lump sum. It shall be considered as full compensation for furnishing all labor, materials, tools, equipment, and incidentals and doing all the work necessary to place the stop bar and pavement marking complete in place and no additional compensation will be allowed.

#### **PAINT TRAFFIC STRIPE:**

Painting traffic stripe shall conform to the provisions in Sections 84-1, "General" and 84-3, "Painted Traffic Stripes and Pavement Markings" of the Caltrans Standard Specifications and these Special Provisions.

Traffic striping shall be applied in two coats with airless equipment and shall be performed with a roadliner truck mounted striping machine. Where the configuration or location of a traffic stripe is such that the use of a roadliner truck mounted striping machine is unsuitable, traffic striping and glass spheres may be applied by other methods and equipment approved by the Engineer.

Newly painted traffic striping shall be protected from damage by public traffic or other causes until the paint is thoroughly dry. Any newly painted traffic striping which are damaged as a result of the construction, including wheel markings by public traffic and the construction equipment, shall be repainted by the Contractor and any associated removals shall be performed as called for in these Special Provisions.

There shall be no separate payment made for Paint Traffic Stripe (2 Coats) and shall be paid under Signing and Striping as a lump sum. It shall be considered as full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in painting traffic stripe (regardless of the number, widths, and types of individual stripes involved in each traffic stripe) including any necessary cat tracks, dribble lines any layout work, complete in place as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer.

**ROADSIDE SIGNS (INSTALL/RELOCATE/SALVAGE):**

Roadside signs shall conform to the provisions in Section 56 of the Caltrans Standard Specifications and as directed by the Engineer.

Roadside signs shall be installed at the locations shown on the construction plans or where directed by the Engineer.

Roadside signs furnished by the Contractor shall be of the standard size specified in the State of California Department of Transportation Sign Specification Sheets, unless otherwise indicated on the construction plans.

Sheeting shall be guaranteed against defects for a period of ten years from the date of fabrication.

The base metal shall be new aluminum, 0.08 gauges, of alloys 6061-T6 or 5052-H38 conforming to the requirements of ASTM Designation : B209.

Any reflective sheeting supplied as a part of this contract, whether as a legend or background, shall be FHWA FP-85 Type IIA or AASHTO M268 Type III.

Reflective sheeting shall be applied to the sign by a method approved by the manufacturer of the sheeting and shall produce a durable bond equal to or greater than the strength of the reflective sheeting. No air pockets or bubbles shall exist between the sheeting and aluminum backing.

The reflective material and screening inks or overlay film shall be graffiti proof. The graffiti proofing method shall be supplied by and/or approved by the sheeting manufacturer. Neither the color nor the reflective intensity of the finished sign shall be significantly diminished by the use of graffiti remover when used in a manner approved by the City conjunction with the sheeting manufacturer. Any signs graffitied by over the counter spray paint or marking pens, which fail to be restored, shall be replaced by the sign sheeting manufacturer.

All letters and numerals shall be in accordance with the "Standard Alphabet of Highway Signs" as used by the State of California, Department of Transportation.

Unless otherwise provided herein, all signs that are designated on the construction plans to be installed on steel or aluminum standards, mast arms, pedestal or posts shall be included in the contract price paid for traffic signals and lighting, including all necessary labor, equipment, materials and incidentals, and no additional compensation will be allowed therefor.

There shall be no separate payment made for (Install/Relocate/Salvage) signs, and shall be paid under Signing and Striping as a lump sum. It shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved and no additional compensation will be allowed therefore.

#### **CHAIN LINK FENCE & GATE**

The above items shall conform to the details shown in the Standard Plans for Public Works Construction, Standard Plan 600-2 and Sections 206-6 and 304-3 of The "Greenbook" Standard Specifications for Public Works Construction.

The contract unit price paid per linear foot for Chain Link Fence & Gates, shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved in the construction and complete in place including relocations and connections to existing fences and/or gates.

#### **VINYL FENCE & GATE**

The above items shall conform to the details shown in Fenceworks Inc. Detail Number V-001 (available at <http://www.fenceworks.us/vinyl-fence.php>), except as herein modified. Vinyl fence shall be six feet in height, color shall be Tan, and posts set in Class B concrete footings conforming to the details shown in Detail Number V-001.

The contract unit price paid per linear foot for Vinyl Fence & Gates, shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved in the construction and complete in place including relocations and connections to existing fences and/or gates.

## **RETAINING WALL**

The above items shall conform to the details shown in the Standard Plans for Public Works Construction, Standard Plan 621-1 and applicable portions of Sections 201-1, 201-2, 202-2, 206-6, 303-4.1, and 304-3 of The "Greenbook" Standard Specifications for Public Works Construction, except as herein modified.

**CONCRETE BLOCK MATERIALS:** ASTM C90, Grade N, Type 1, standard precision medium weight aggregate units, steam-cured or yard air cured for 28 days, meeting Quality Control Standards of Concrete Masonry Association, natural cement color smooth faced units unless otherwise indicated or specified. Including matching control joint, bond beam, and other special shape, type or size units as required.

The contract unit price paid per square foot for Retaining Wall, shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved in the construction and complete in place including the furnishing and placing of the chain link fence atop the retaining wall, earthwork excavation, and backfill for retaining wall construction and completion.

## **ADJUSTING MANHOLES AND UTILITY COVERS TO GRADE:**

Existing manholes and utility covers shall be adjusted to grade with materials similar in quality to those in the original structure in accordance with the applicable provisions of Section 15-2 of the Caltrans Standard Specifications and these Special Provisions.

Should modification and/or reconstruction (including raising manholes to grade) of an existing manhole be required, prior to the removal of the frame of the sewer manhole, the channel of the manhole shall be completely covered with planking or other suitable material **as approved by the jurisdictional agency** so as to prevent debris from entering the channel. After the manhole reconstruction has been completed, all debris shall be removed from within the manhole and the cover over the channel shall be removed.

After the manhole frames or covers have been removed, the top of the structure shall be carefully trimmed to provide a suitable foundation for the new material.

Nothing in these Special Provisions shall relieve the Contractor from his responsibilities as provided in Section 7-1.09, "Public Safety" of the Standard Specifications.

The Contractor shall follow City of Riverside Standard Plans and Specifications for adjustment to grade for sewer manholes, water valves, and water meters.

The contract unit bid price paid per each for Adjust Manholes To Grade and Adjust Utility Covers To Grade shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, for doing all the work involved and shall be

considered as included in the contract price paid for asphalt concrete no additional compensation will be allowed therefore.

**EXISTING IRRIGATION FACILITIES:**

Attention is directed to Section 20-5.025, "Maintain Existing Water Supply," of the Standard Specifications.

Existing irrigation facilities that are damaged by the Contractor's operation shall be reported immediately to the Engineer, and shall be adjusted and repaired as necessary and as directed by the Engineer. Existing irrigation facilities that are in conflict with the planned improvements shall be relocated as required, and as directed by the Engineer.

The Contractor shall coordinate with the individual property owners for relocation of existing water facilities which are in conflict with the planned improvements. Shut down of water service to each individual property shall be limited to one interruption in service with a maximum shut-down time of four hours.

The lump sum contract price paid for Relocate Irrigation Facilities shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for relocation of irrigation facilities and no additional compensation will be allowed therefore.

**EXISTING WATER FACILITIES:**

Existing water meters and appurtenances which are in conflict with the planned improvements are to be relocated per the City of Riverside Specification No. 205.

The Contractor shall coordinate with the individual property owners for relocation of existing water facilities which are in conflict with the planned improvements. Shut down of water service to each individual property shall be limited to one interruption in service with a maximum shut-down time of four hours.

Existing water meters and meter boxes to be relocated as identified on the plans or in conflict with the planned improvements shall be relocated per City of Riverside Public Utilities Water Division CWD Standard Drawing Number CWD 600. The existing meter boxes shall be replaced with new meter boxes per City of Riverside Specification No. 205, Section 3-9.4. Meter boxes shall be located behind the sidewalk. Where there are proposed conflicts with existing or proposed improvements, the meter box may be located within the sidewalk provided steel traffic rated covers are utilized in lieu of concrete covers. The existing water service laterals (meter to water main) shall be removed and plugged, and a new water service lateral constructed from the water main to the relocated meter per City of Riverside Public Utilities Water Division CWD Standard Drawing Number CWD 600. Reconnection to the individual property owners water system to the meter shall also be made.

The contract unit price paid per each for meter relocations and adjustment to grade shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved in the construction and complete in place including the furnishing and placing of meter boxes.

**EXISTING FIRE HYDRANTS:**

Existing fire hydrants shall be relocated as identified on the plans per City of Riverside Public Utilities Water Division CWD Standard Drawing Number CWD 408 and 409 and City of Riverside Specification No. 205, Section 3-9.4.

The contract unit price paid per each fire hydrant relocation shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved in the construction and complete in place including excavation.

**CONSTRUCTION STAKING:**

Construction staking request shall be made 3 working days prior to the staking date unless prior arrangements have been made. The contractor shall utilize the "Contractor/Client Survey Request Form" provided on the following page for all staking request.

Construction staking services will be provided by Albert A. Webb Associates in accordance with the contract agreement between Albert A. Webb Associates and Riverside County Economic Development Agency (EDA). Construction staking services to be provided include the following:

- Control recovery & ties.
- Curb & gutter.
- Returns and cross gutters.
- Sidewalk and driveways.
- Finish surface pavement.
- Proposed right of way.
- Utility relocations.
- Replacement of monuments.
- Certifications.

The total number of hours allocated for the above services is as follows:

Two-Man Survey Party	40 hours
Survey Technician II	18 hours
Project Coordinator	16 hours
Director of Survey	8 hours
Principal I	8 hours
<b>Total</b>	<b>90 hours</b>

If additional construction survey services are required in addition to the amount allocated above, the cost for these additional services shall be provided at the contractor's expense.

Except as indicated above, full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in construction staking as shown on the plans, as specified herein, and as directed by the Engineer shall be considered as included in the contract prices paid for the various construction items and no additional compensation will be allowed therefore.

### **ADDITIONAL WORK ASSOCIATED WITH THE INSTALLATION OF SIDEWALK IMPROVEMENTS**

Total of 14 parcels located on Indiana Avenue between Neece St. and Grant St. Different condition exists on each parcel. Some have wood fence, others have block wall, and some have obstruction in the way of the proposed sidewalk improvements.

Work included under "Additional work associated with the Installation of Sidewalk Improvements":

- Grading
- Removal of fence
- Removal of block wall
- Relocation of obstruction
- Removal of obstruction
- Tie in existing side fence or block to sound wall
- Reconstruction of irrigation system
- Restoration of landscaping
- Removal of Tree(s)
- Relocation of Tree(s)
- Make record of existing conditions – Pictures and Video
- Other work required to restore the backyard to the existing condition or better

The contractor shall take pictures and video on DVD of each backyard and submit to County of Riverside Economic Development Agency or its representative.

Payment – Full compensation, except as otherwise provided herein, for conforming to the requirements of this article shall be paid on lump sum basis for all parcels and no additional compensation will be allowed therefore. Full compensation shall be considered as included in the contract item paid for "Additional Work Associated with the Installation of Sidewalk Improvements", and no additional compensation will be allowed.





**CONTRACTOR/CLIENT  
SURVEY REQUEST FORM**  
for

Albert A. Webb Associates  
3788 McCray Street  
Riverside, CA 92509  
(951) 686-1070  
FAX NO. (951) 788-1387

Please fill in the requested information and deliver or fax to Albert A. Webb Associates a minimum of 3 working days prior to the date for staking unless other arrangements have been made.

Name and Location of Project: \_\_\_\_\_

Today's Date: \_\_\_\_\_

Priority	Stakes Are		Location, Description, and Limits of Staking	Date to be Staked	Offset		
	Orig.	Reset			Lt.	Rt.	Int.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Requested By: \_\_\_\_\_ Company Name: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_  
 Distribution of Cut Sheets / Copies of Certification Letters:

NAME	FAX NO.

## **OBSTRUCTIONS:**

Attention is directed to Sections 8-1.10, "Utility and Non-Highway Facilities", and 15, "Existing Highway Facilities" of the Caltrans Standard Specifications and these Special Provisions.

Existing utility and privately owned facilities shall be protected in accordance with Section 7-1.11, "Preservation of Property" of the Caltrans Standard Specifications and these Special Provisions. The Contractor is also responsible to protect those facilities that are to be relocated by others prior to or during construction, and shall protect those facilities in both their existing and their ultimate locations. The Contractor shall cooperate with owners and their Contractors of utility and privately owned facilities, for the relocation of said facilities, in accordance with Section 7-1.14, "Cooperation" of the Caltrans Standard Specifications.

All water valves, gas valves, sewer manholes, survey monuments, survey markers and any other utility appurtenances shall be protected in place. Full compensation for such protection shall be considered as included in the various bid items.

The Contractor's attention is directed to the existence of certain underground facilities that may require special precautions be taken by the Contractor to protect the health, safety and welfare of workmen and the public. Facilities requiring special precautions include, but are not limited to: conductors of petroleum products, oxygen, chlorine, and toxic or flammable gases; natural gas in pipe lines greater than 6 inches in diameter or pipe lines operating at

pressures greater than 60 psi (gage); underground electric supply system conductors or cables either directly buried or in duct or conduit which do not have concentric neutral conductors or other effectively grounded metal shields or sheaths; and underground electrical conductors with potential to ground of more than 300 volts. The Contractor shall notify the Engineer at least twenty-four hours prior to performing any work in the vicinity of such facilities.

Attention is directed to the requirements of Government Code Sections 4216-4216.9 pertaining to existing utility facilities.

The Contractor shall assume that every house, building and lot within the project limits has utility service pipes and conductors (laterals), and that utility main and trunk facilities exist within the project limits. The Contractor shall determine if it is warranted to determine the exact location of these utility service laterals and existing main lines, unless directed by the Engineer to pot-hole at specific locations. The Contractor will not be directly reimbursed for determining the exact location of the utility main lines or services laterals but shall include any compensation for this work in the contract price paid for the various items of work. Any damage to existing main lines or service laterals for which pot-holing was not performed shall be considered damage due to not using reasonable care and the damage shall be repaired at the Contractor' expense.

The contractor shall conduct his operations with the assumption that underground utility facilities exist within the project limits. The contractor shall exercise caution and best construction practices for safety and for protection of underground facilities. The approximate locations of underground utility facilities, as shown on the plans, are based on information provided by the respective owners, listed below. The contractor shall also utilize the markings of the regional notification center (Underground Service Alert), and above-ground utility appurtenances to determine the existence and approximate location of underground utilities.

No excavation shall be made within 4 feet of any underground utilities, as listed below, unless and until such utilities have been positively located as to horizontal and vertical position. This requirement applies to all underground electrical, natural gas, toxic or flammable gas, chlorine, oxygen or petroleum facilities.

Forty-eight hours prior to beginning construction, the Contractor shall notify the following agencies:

Underground Service Alert	800-227-2600
Home Gardens Water District	951-737-4741
AT&T	714-963-7964
SC Gas – Corona	909-335-7967
Sprint	800-659-9698
Time Warner Cable	909-975-3398
UTI for SC- Edison Dist	626-302-1212
UTI for Charter Communications	951-343-5165

Full compensation for all cost including labor, equipment, materials and incidentals, required to comply with the requirements of this section shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

The Contractor shall investigate existing utilities and identify potential conflict at the beginning of the project. The conflicting utility may be relocated by the utility company or Owner may ask Contractor to relocate with the approved change order. The Contractor will not be compensated for delay caused by utility relocation.

**SPECIAL SIGNS:**

The Contractor shall furnish and erect Two (2) Special Project Signs at the locations designated by the Engineer in accordance with the Standard Plans and these Special Provisions.

These signs will be requested either prior to construction, or during construction, by the Resident Engineer as he deems them necessary. For bidding purposes, the signs shall be assumed to be 4'X5' in size and shall be mounted on two 4" X 6" posts.

The signs shall be professionally manufactured and installed in accordance with Section 56-2 of the Caltrans Standard Specifications, and Standard Plans RS1 through RS4, and the Caltrans Publication, "Standard Alphabet of Highway Signs".

Signs shall be manufactured using 3/4" plyglaze or equivalent support material, 3" minimum lettering size, 1" border, and reflective sheeting conforming to FHWA FP-85 Type IIA or AASHTO M268 Type III. The signs shall be assumed to have logos.

The information for the sign is shown on the next page.

**Payment:**

Full compensation shall be considered as included in the contract price paid for Traffic Control, including the furnishing of all labor, materials, tools, equipment and incidentals, and for furnishing, erecting, maintaining, and removing the signs, and no additional compensation will be allowed therefore.

**PROJECT SIGN:**



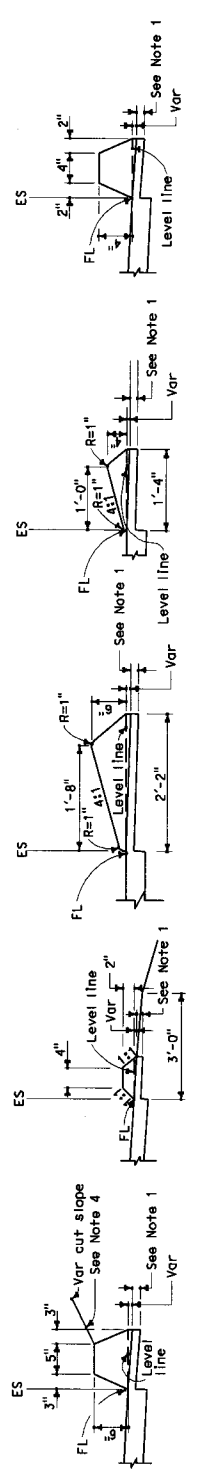
**INDIANA AVENUE SIDEWALK IMPROVEMENT PROJECT**

**A HUD RECOVERY-FUNDED PROJECT**



DIST	COUNTY	ROUTE	POST MILE PROJECT	SHEET NO. SHEETS

**REGISTERED CIVIL ENGINEER**  
**REGISTERED PROFESSIONAL ENGINEER**  
 May 1, 2006  
 LICENSE NO. 44738  
 EXPIRES 05-31-09  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan.  
 To get to the Caltrans web site, go to: <http://www.caltrans.gov>



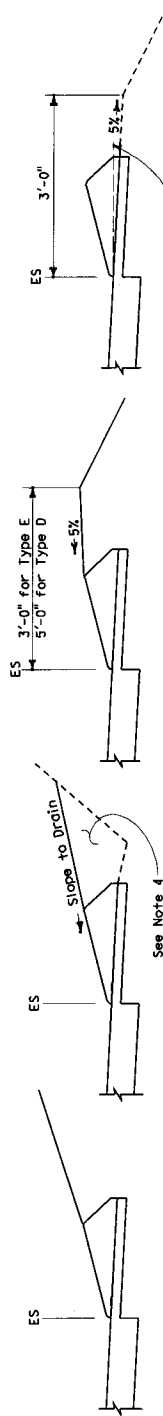
**TYPE A**  
See Note 3

**TYPE C**  
See Note 1

**TYPE D**  
See Note 1

**TYPE E**  
See Note 1

**DIKES**



**CASE C-1**  
Cut Slope

**CASE C-2**  
Cut Slope

**CASE R**  
See Note 2

**CASE F**  
See Note 2

**TYPE D AND E BACKFILL DETAILS**

**NOTES:**

1. For AC shoulders only, extend top layer of AC placed on the shoulder under dike with no joint at the ES.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type F dike where dike is required with guard railing installations. See Standard Plan A1704 for dike positioning details.

**DIKE QUANTITIES**

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

**ASPHALT CONCRETE DIKES**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

NO SCALE

**A87B**

DIST	COUNTY	ROUTE	PROJECT	SHEET NO.	TOTAL SHEETS

*H. Paul Cook*  
REGISTERED CIVIL ENGINEER

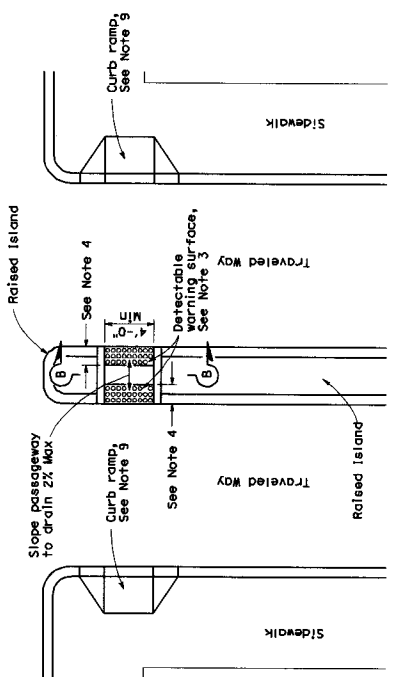
May 1, 2006  
PLANS EXPIRATION DATE  
The State of California or its officers or agents shall not be responsible for the accuracy, completeness or electronic nature of this plan sheet.

To get to the California web site go to: <http://www.dgs.ca.gov>

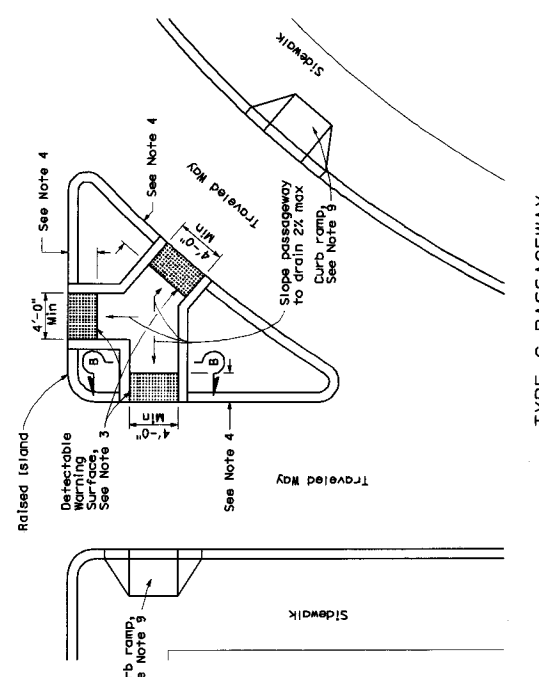
PROJECT NO. 06-000000  
DRAWING NO. 06-000000  
DATE 3-31-06  
BY [Signature]  
CHECKED [Signature]

**NOTES:**

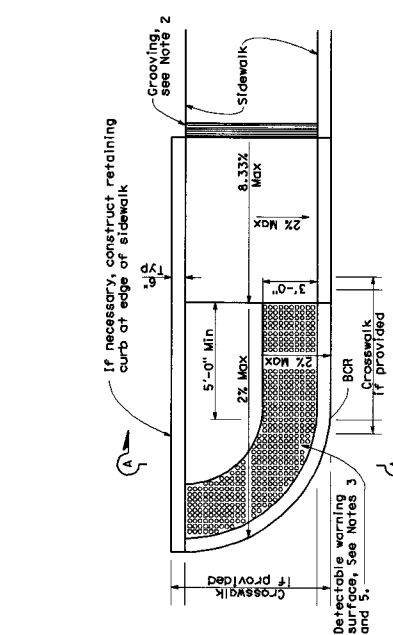
1. Sidewalk ramp and passageway thickness, "T", shall be 3/2" minimum.
2. For details of grooving used with Case CM curb ramp, see Standard Plan A88A.
3. For details of detectable warning surfaces, see Standard Plan A88A.
4. Where an island passage way length is less than 6'-0" and full depth of the passage way length, where an island passage way length is greater than or equal to 6'-0", but less than 8'-0", each detectable warning surface shall extend the full width and 2'-0" depth of the island passage way length. Where an island passage way length is greater than or equal to 8'-0", each detectable warning surface shall extend the full width and 3'-0" depth of the passage way length.
5. For Case CM curb ramp, the edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
6. Transitions from ramps to walks, gutters or streets shall be flush and free of abrupt changes.
7. Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp or accessible route shall be within 4'-0" of the top and bottom of the curb ramp.
8. Utility pull boxes, manholes, vaults and all other utility structures as well as the boundaries of the curb ramp will be relocated or adjusted to the curb ramp construction, or in conjunction with, curb ramp construction.
9. For additional curb ramp details, see Standard Plan A88A.



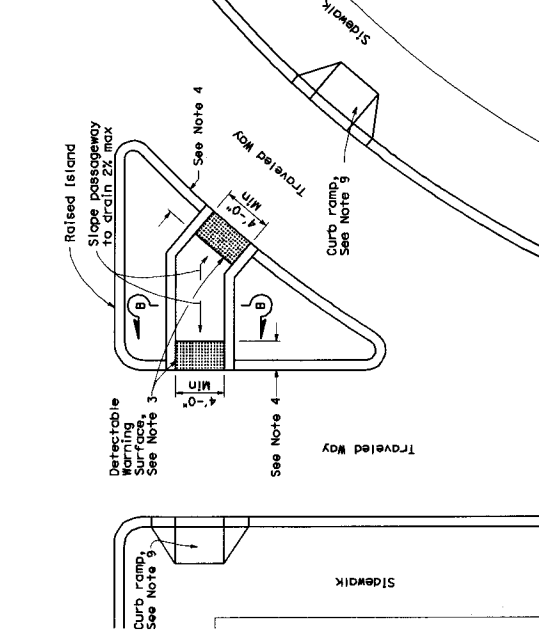
**TYPE A PASSAGEWAY**



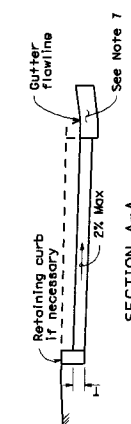
**TYPE C PASSAGEWAY**



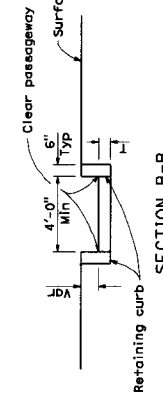
**CASE CM CURB RAMP**



**TYPE B PASSAGEWAY**



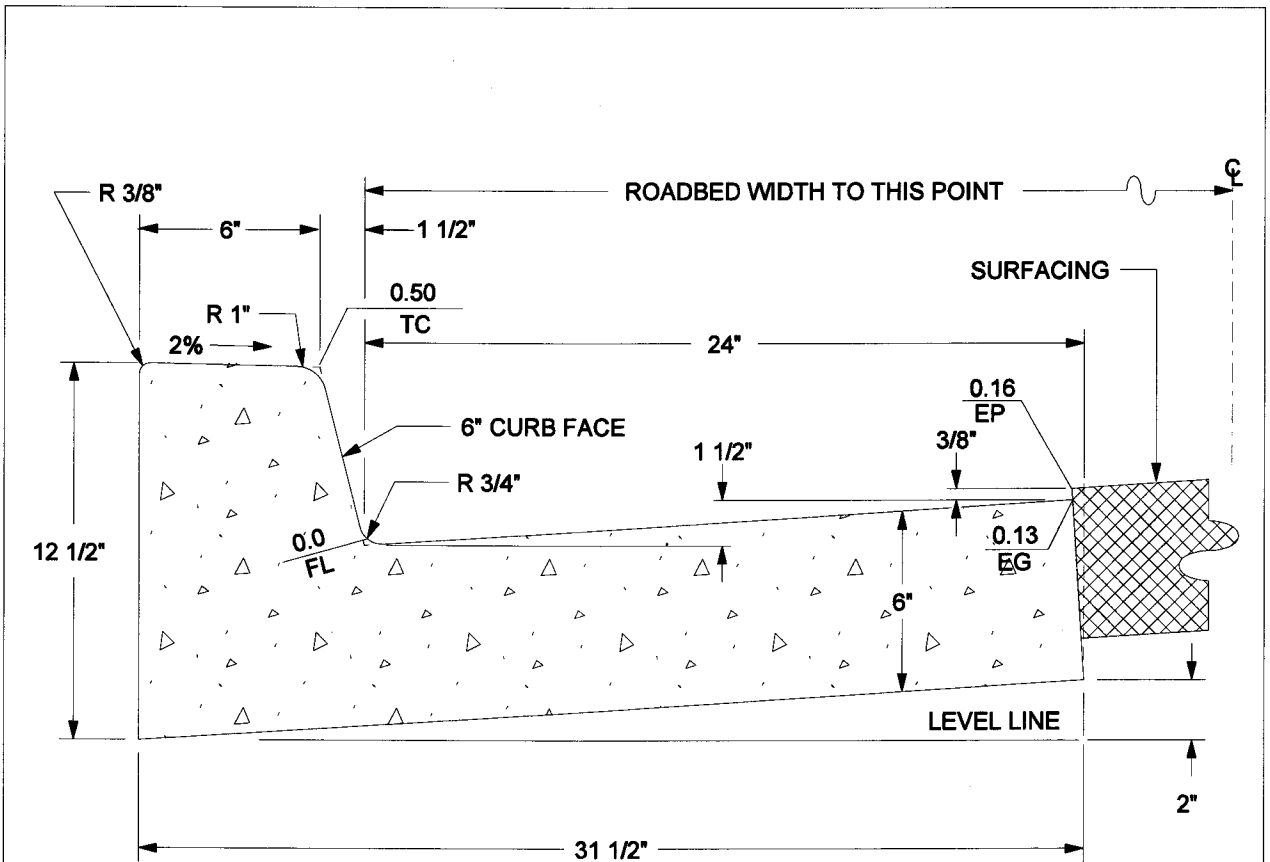
**SECTION A-A**



**SECTION B-B**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CURB RAMP AND  
ISLAND PASSAGEWAY DETAILS**  
NO SCALE

**A88B**



CLASS "B" CONCRETE

1.601 CU. FT. / L.F.

1 CU. YD. = 16.86 L.F.

**ABBREVIATIONS:**

TC = TOP OF CURB

FL = FLOWLINE

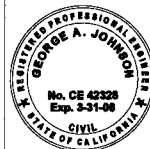
EG = EDGE OF GUTTER

EP = EDGE OF PAVEMENT

APPROVED BY:

*George A. Johnson*  
 DIRECTOR OF TRANSPORTATION  
 GEORGE A. JOHNSON, RCE 42328

DATE: 05/01/07



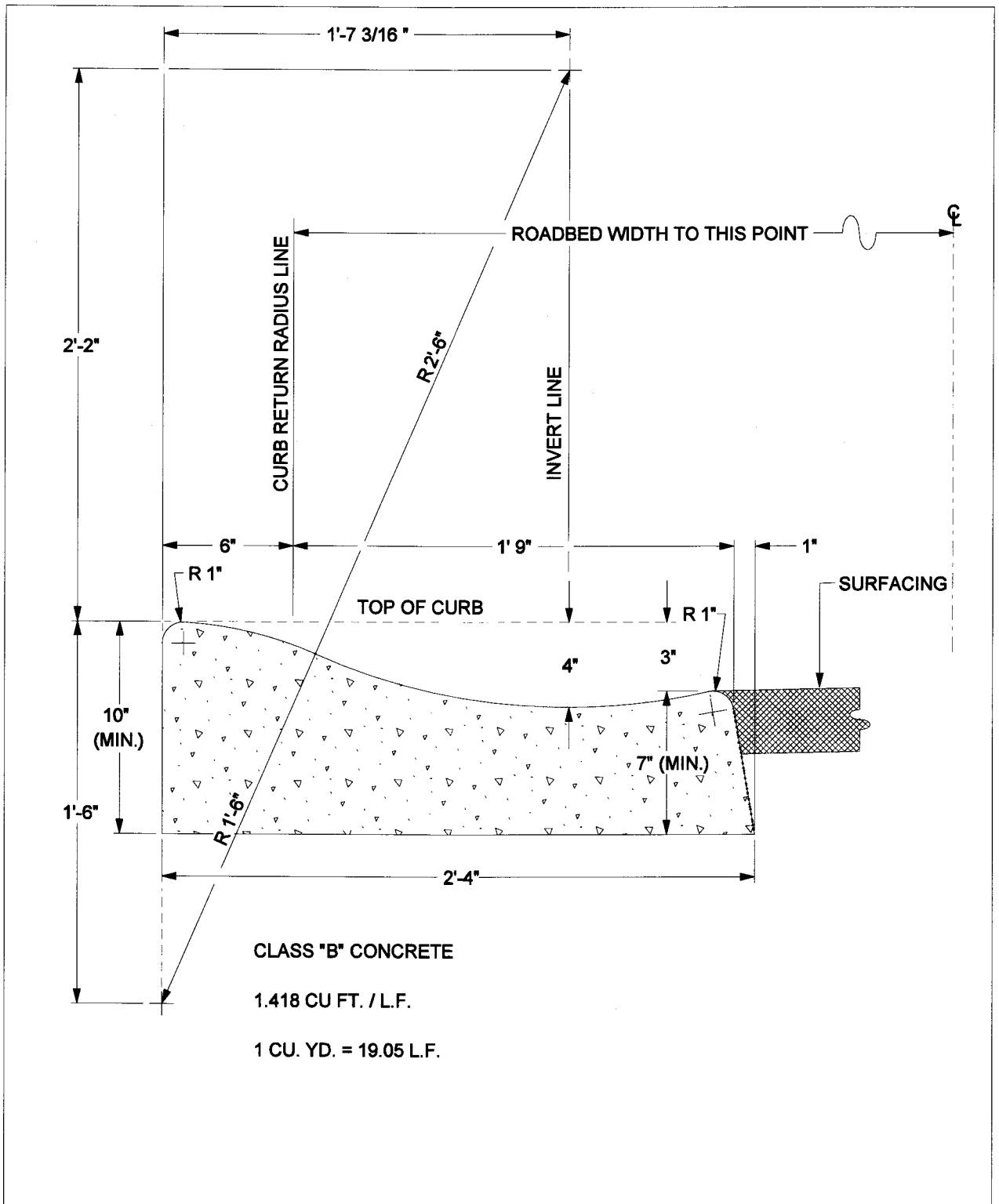
COUNTY OF RIVERSIDE

**TYPE A-6 CURB**

STANDARD NO. 200

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-71, 9-88	1				4			
2-90, 11-04	2				5			
	3				6			

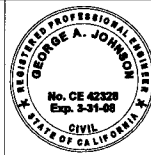




APPROVED BY:

*George A. Johnson*  
 DIRECTOR OF TRANSPORTATION  
 GEORGE A. JOHNSON, RCE 42328

DATE: 05/01/07

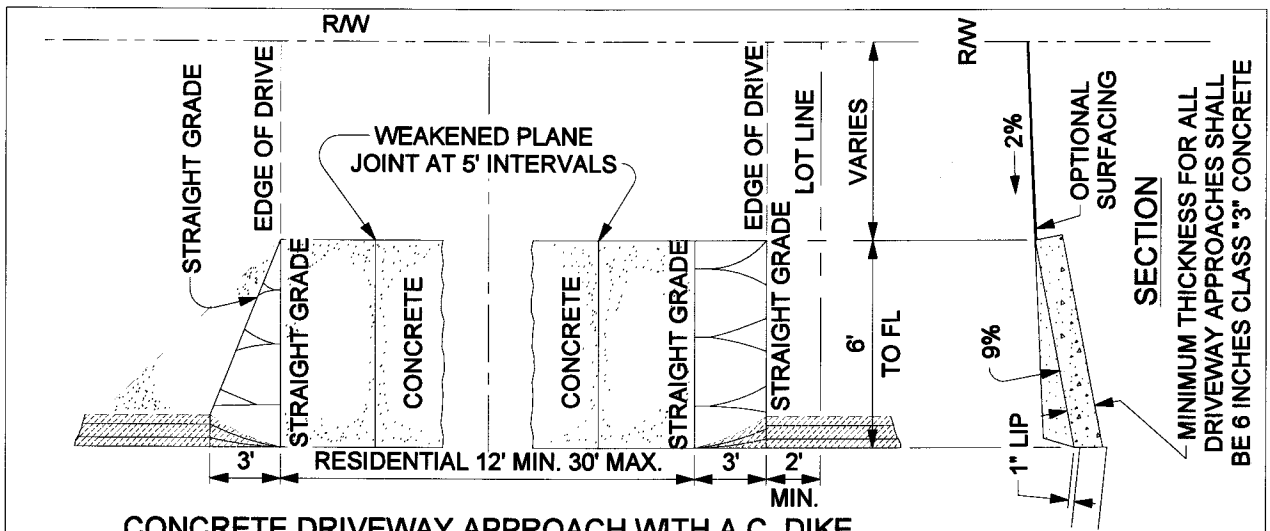


COUNTY OF RIVERSIDE

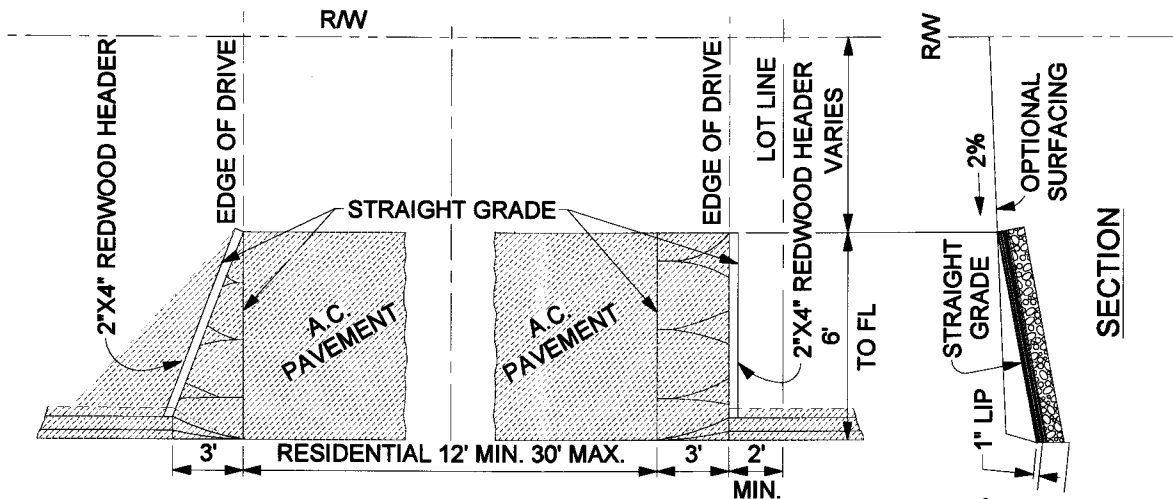
**TYPE "C" CURB**

REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
2-71, 3-82		1				4			
2-90, 11-04		2				5			
		3				6			

STANDARD NO. 202



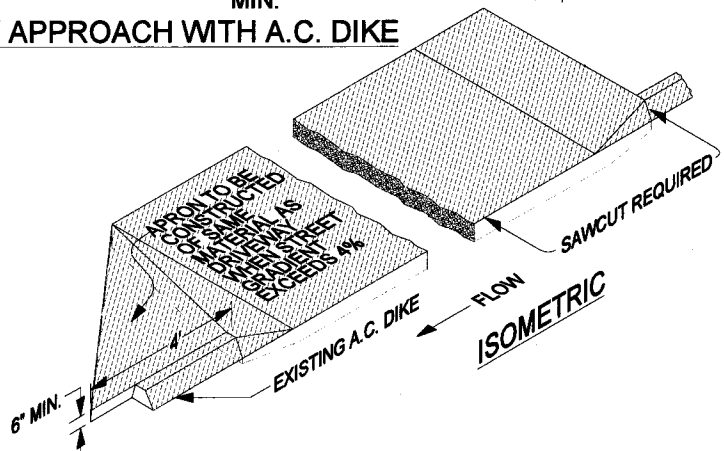
**CONCRETE DRIVEWAY APPROACH WITH A.C. DIKE**  
(NOT APPLICABLE TO INTERIM DIKE LOCATION.)



**ASPHALTIC CONCRETE DRIVEWAY APPROACH WITH A.C. DIKE**

**NOTES:**

1. ALL CONSTRUCTION SHALL BE 2-1/2" MIN. THICKNESS ASPHALTIC CONCRETE ON 4" MIN. THICKNESS CLASS 2 OR CLASS 3 BASE, OR 3-1/2" THICKNESS A.C. ON NATIVE SOIL.
2. 20' OF FULL HEIGHT DIKE REQUIRED BETWEEN DRIVEWAYS WITHIN ANY ONE PROPERTY UNLESS OTHERWISE PERMITTED.



NOT TO SCALE

APPROVED BY:

*George A. Johnson*  
DIRECTOR OF TRANSPORTATION  
GEORGE A. JOHNSON, RCE 42328

DATE: 11/15/04

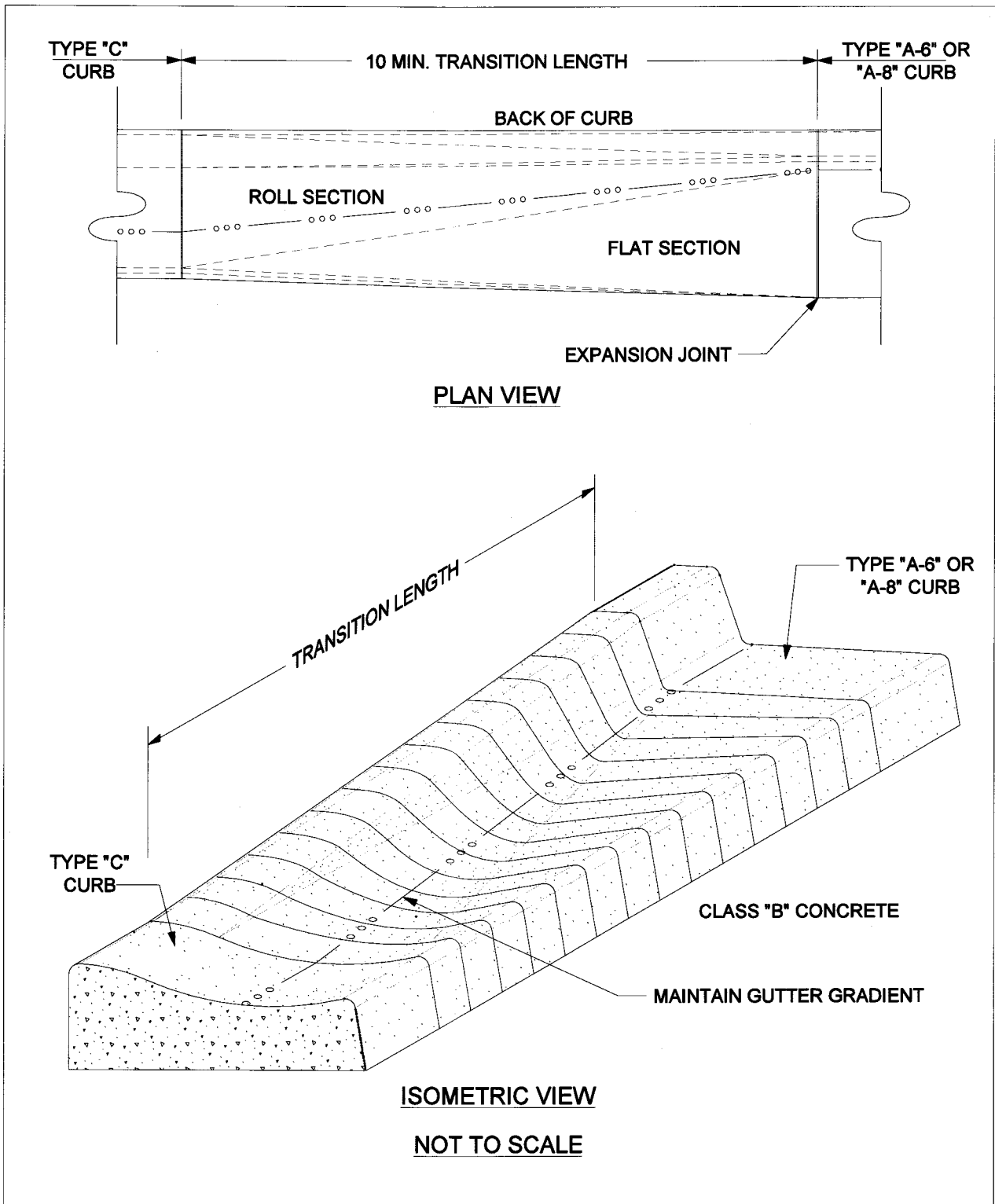



COUNTY OF RIVERSIDE

**RESIDENTIAL DRIVEWAY WITH A.C. DIKE**

STANDARD NO. 206

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-77, 5-80	1				4			
3-82, 2-90	2				5			
12-97, 11-04	3				6			



APPROVED BY:  
  
 DIRECTOR OF TRANSPORTATION  
 GEORGE A. JOHNSON, RCE 42328

DATE: 05/01/07

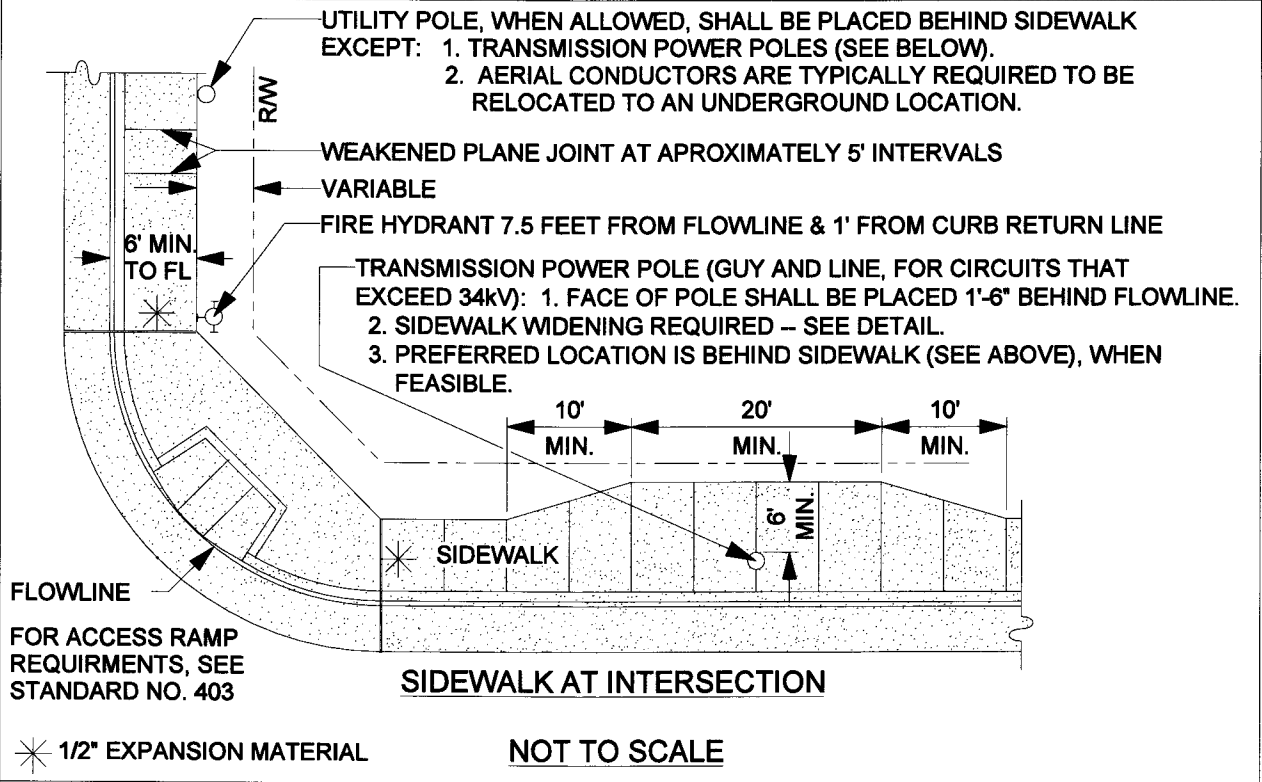
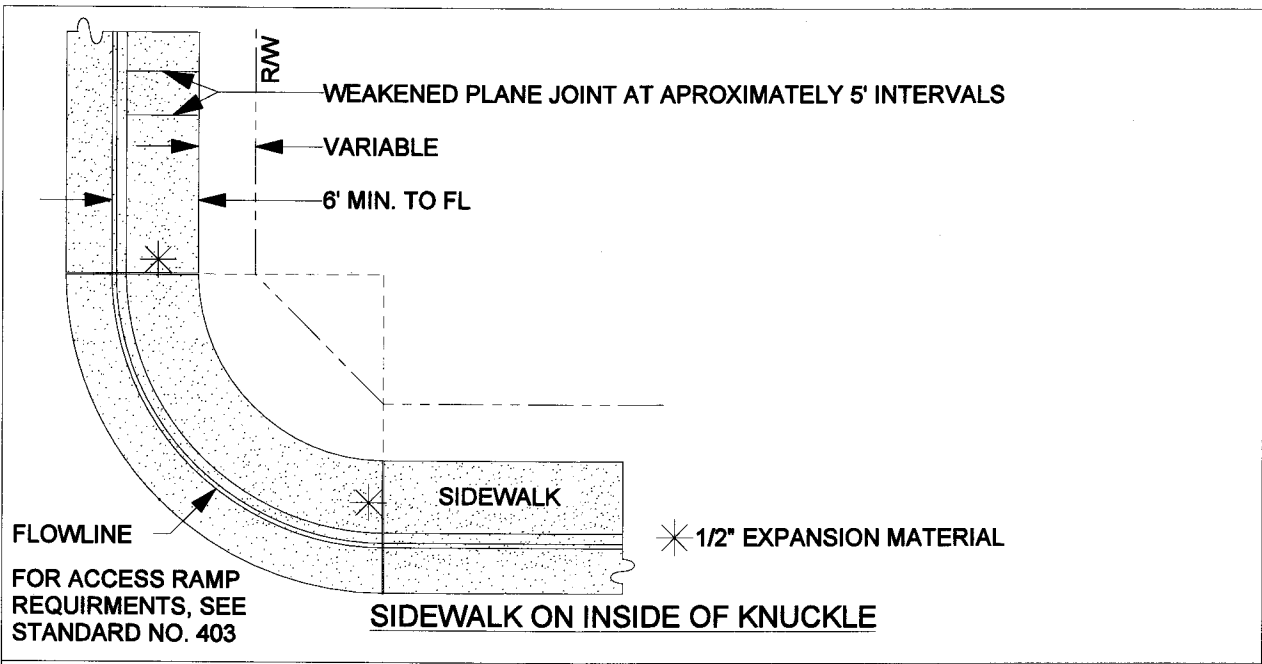


COUNTY OF RIVERSIDE

**CURB TRANSITION**

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-24-71, 6-82	1				4			
	2				5			
	3				6			

STANDARD NO. 211



**NOTE:**

1. VARIABLE DISTANCES TO BE SHOWN ON APPLICABLE TYPICAL ROAD SECTION STANDARD.
2. CONSTRUCTION TO BE OF CLASS "B" CONCRETE 4" MINIMUM THICKNESS.

APPROVED BY:

*George A. Johnson*  
 DIRECTOR OF TRANSPORTATION  
 GEORGE A. JOHNSON, RCE 42328

DATE: 05/01/07

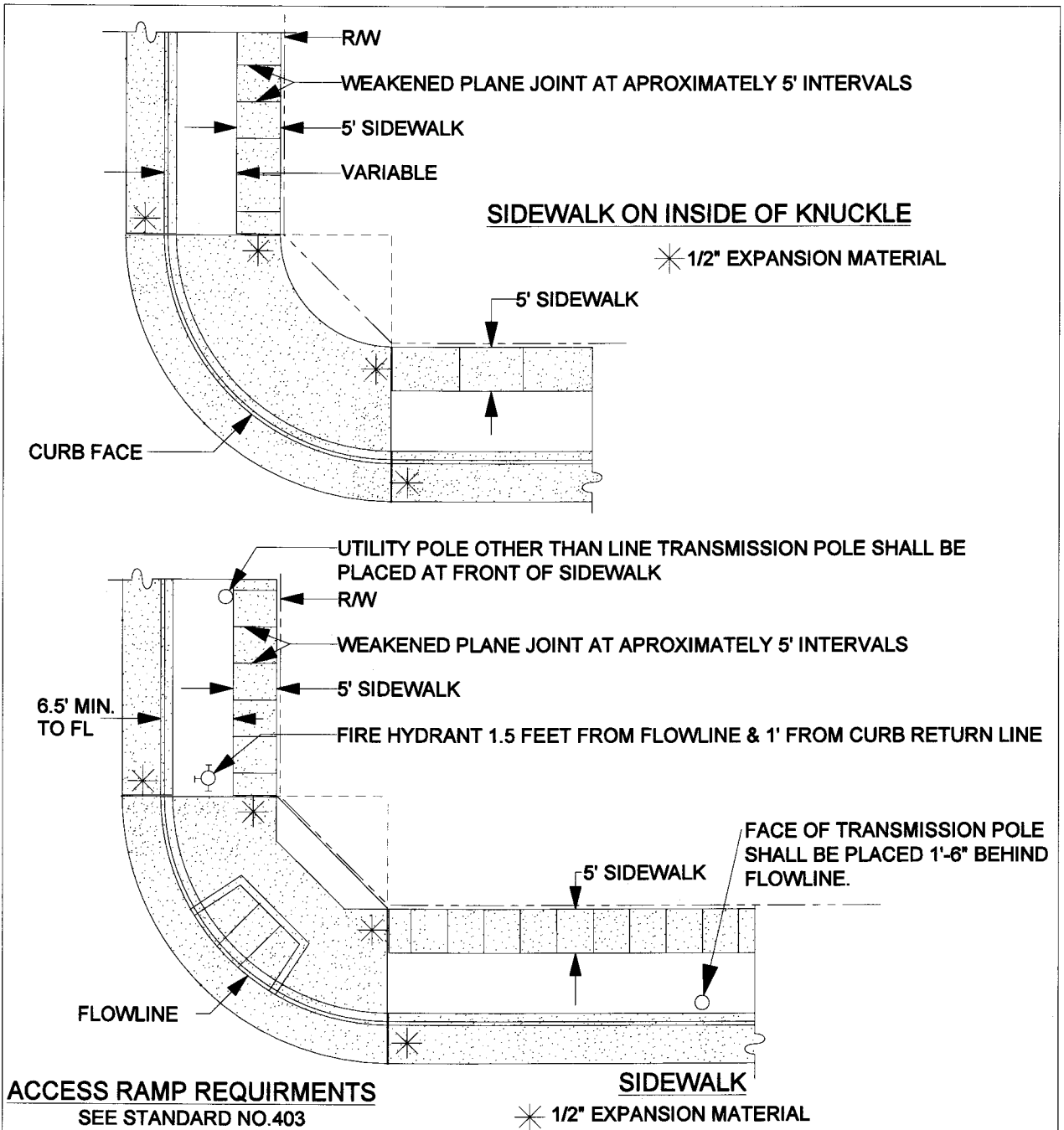


COUNTY OF RIVERSIDE

**SIDEWALK,  
 FIRE HYDRANT, &  
 UTILITY POLE LOCATION  
 (SIDEWALK AT CURB)**

STANDARD NO. 400 (1 OF 2)

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-71, 8-77	1				4			
11-77, 8-82	2				5			
9-88, 11-04	3				6			



**ACCESS RAMP REQUIRMENTS**  
SEE STANDARD NO.403

**SIDEWALK**  
\* 1/2" EXPANSION MATERIAL

NOT TO SCALE

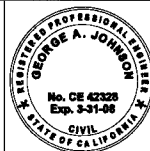
**NOTE:**

1. VARIABLE DISTANCES TO BE SHOWN ON APPLICABLE TYPICAL ROAD SECTION STANDARD.
2. CONSTRUCTION TO BE OF CLASS "B" CONCRETE 4" MINIMUM THICKNESS.

APPROVED BY:

*George A. Johnson*  
DIRECTOR OF TRANSPORTATION  
GEORGE A. JOHNSON, RCE 42328

DATE: 05/01/07

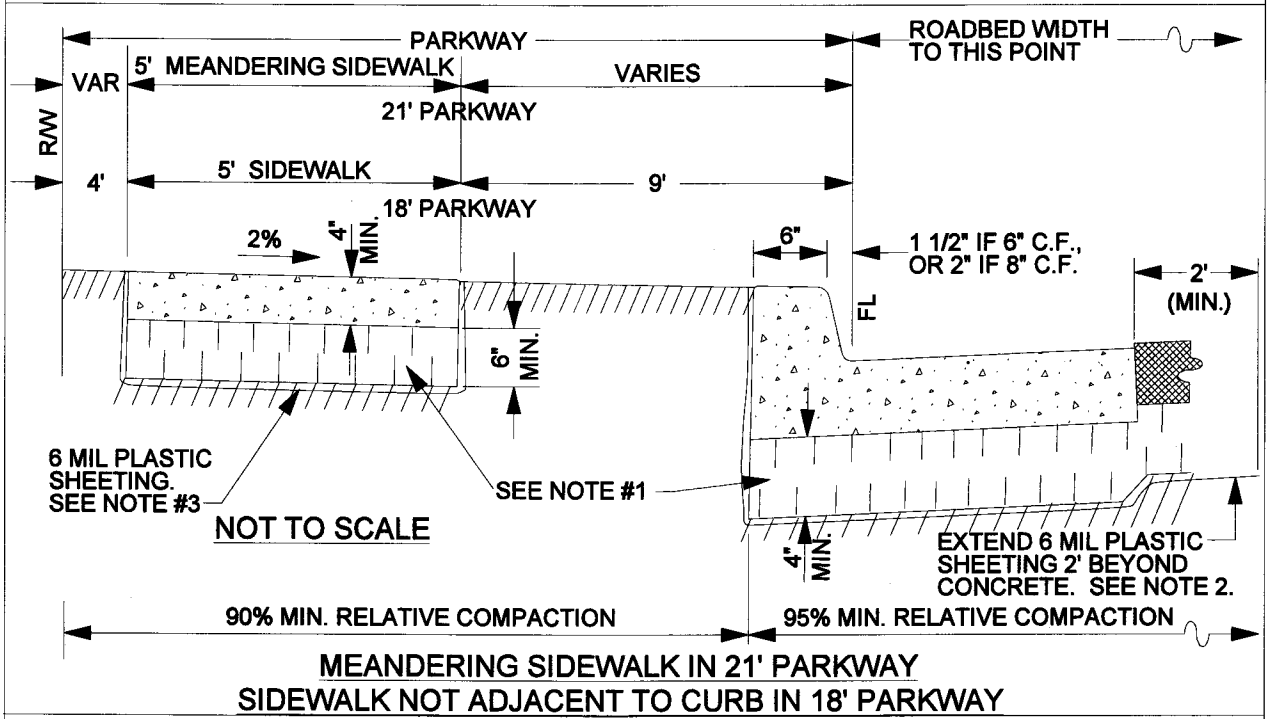
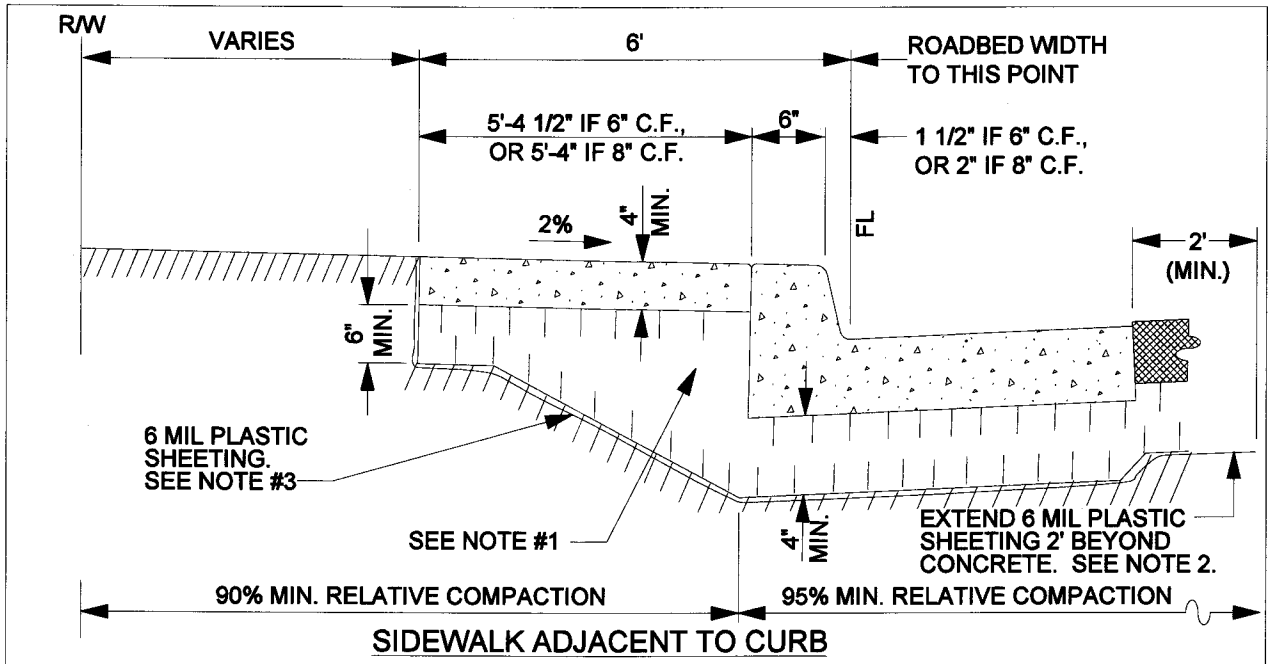


COUNTY OF RIVERSIDE

**SIDEWALK,  
FIRE HYDRANT, &  
UTILITY POLE LOCATION  
(SIDEWALK AT R/W)**

REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-71, 8-77	11-04	1				4			
11-77, 8-82		2				5			
9-88, 2-90		3				6			

STANDARD NO. 400 (2 OF 2)



**NOTE:**

1. AGGREGATE BASE OR APPROVED SELECT MATERIAL WHEN SOILS REPORT INDICATES PRESENCE OF EXPANSIVE SOIL CONDITIONS.
2. ALL CONSTRUCTION SHALL BE CLASS "B" CONCRETE.
3. WHEN ABUTTING SOIL HAS A HIGH SULFATE CONTENT, SPECIAL CONSIDERATIONS ARE REQUIRED. SEE SPECIFICATIONS (SECTION 16.04).

APPROVED BY:

*George A. Johnson*  
 DIRECTOR OF TRANSPORTATION  
 GEORGE A. JOHNSON, RCE 42328

DATE: 05/01/07



COUNTY OF RIVERSIDE

**SIDEWALK AND CURB**

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-71, 11-77	1				4			
8-82, 9-88	2				5			
4-90, 11-04	3				6			

STANDARD NO. 401

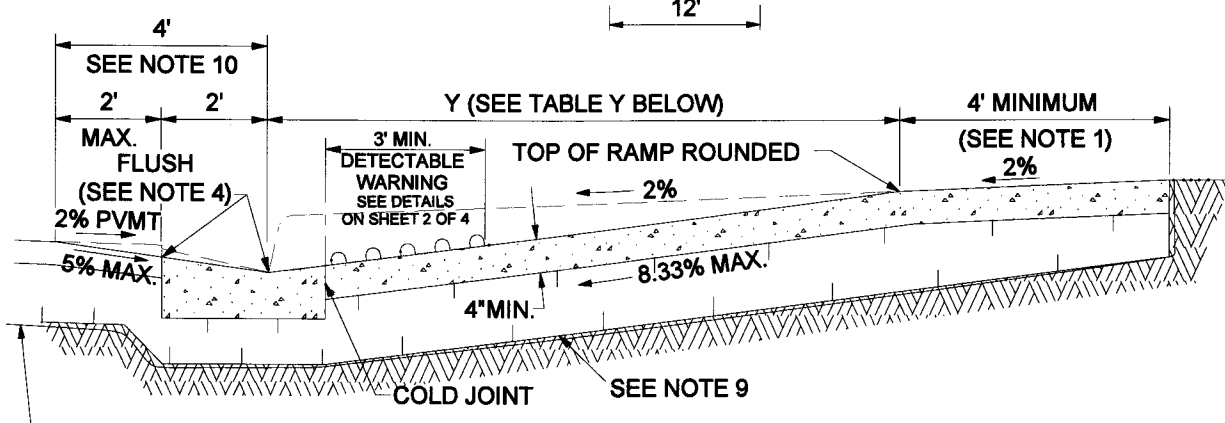
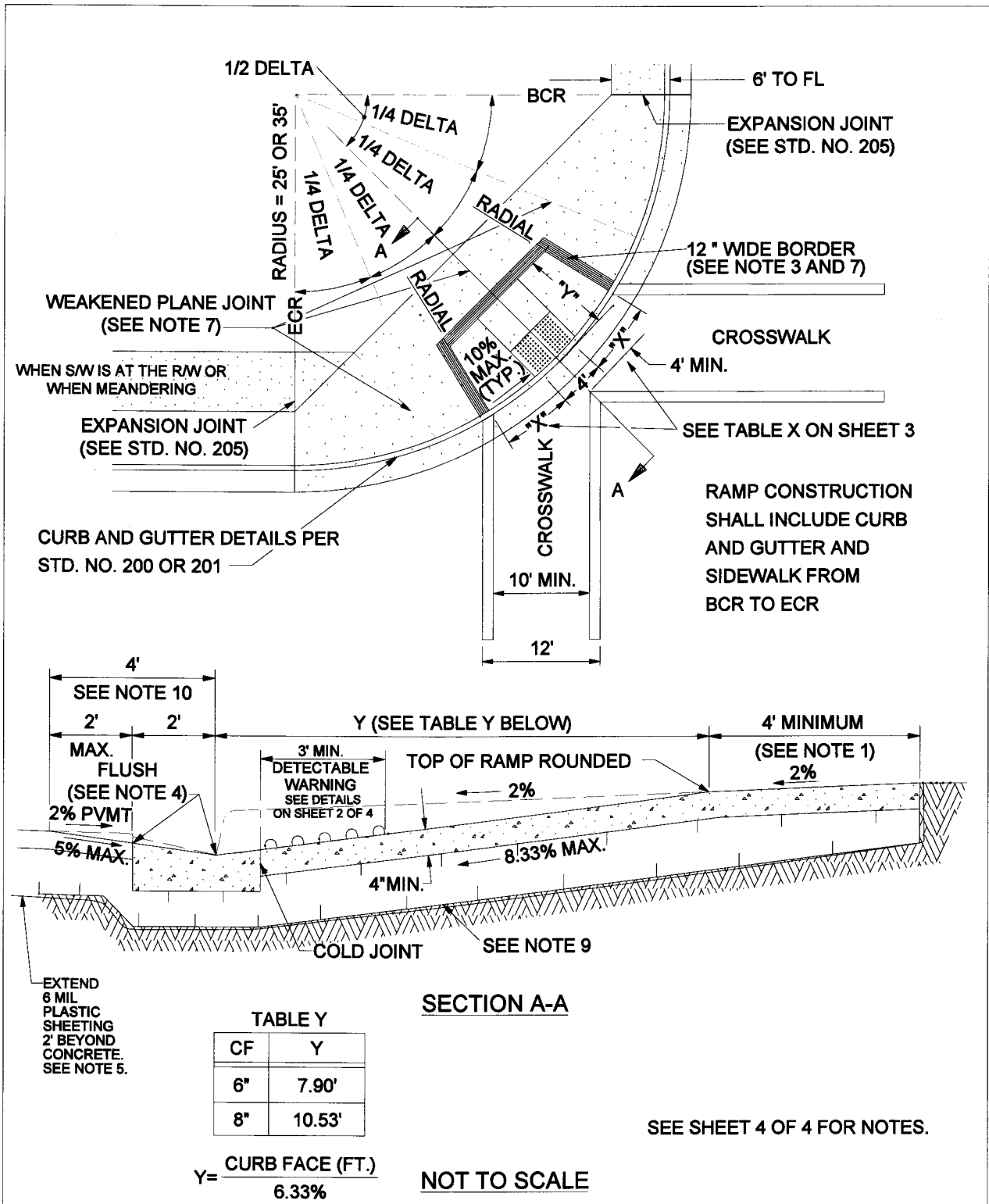


TABLE Y

CF	Y
6"	7.90'
8"	10.53'

$$Y = \frac{\text{CURB FACE (FT.)}}{6.33\%}$$

NOT TO SCALE

SEE SHEET 4 OF 4 FOR NOTES.

APPROVED BY: *George A. Johnson* DATE: 11/15/04

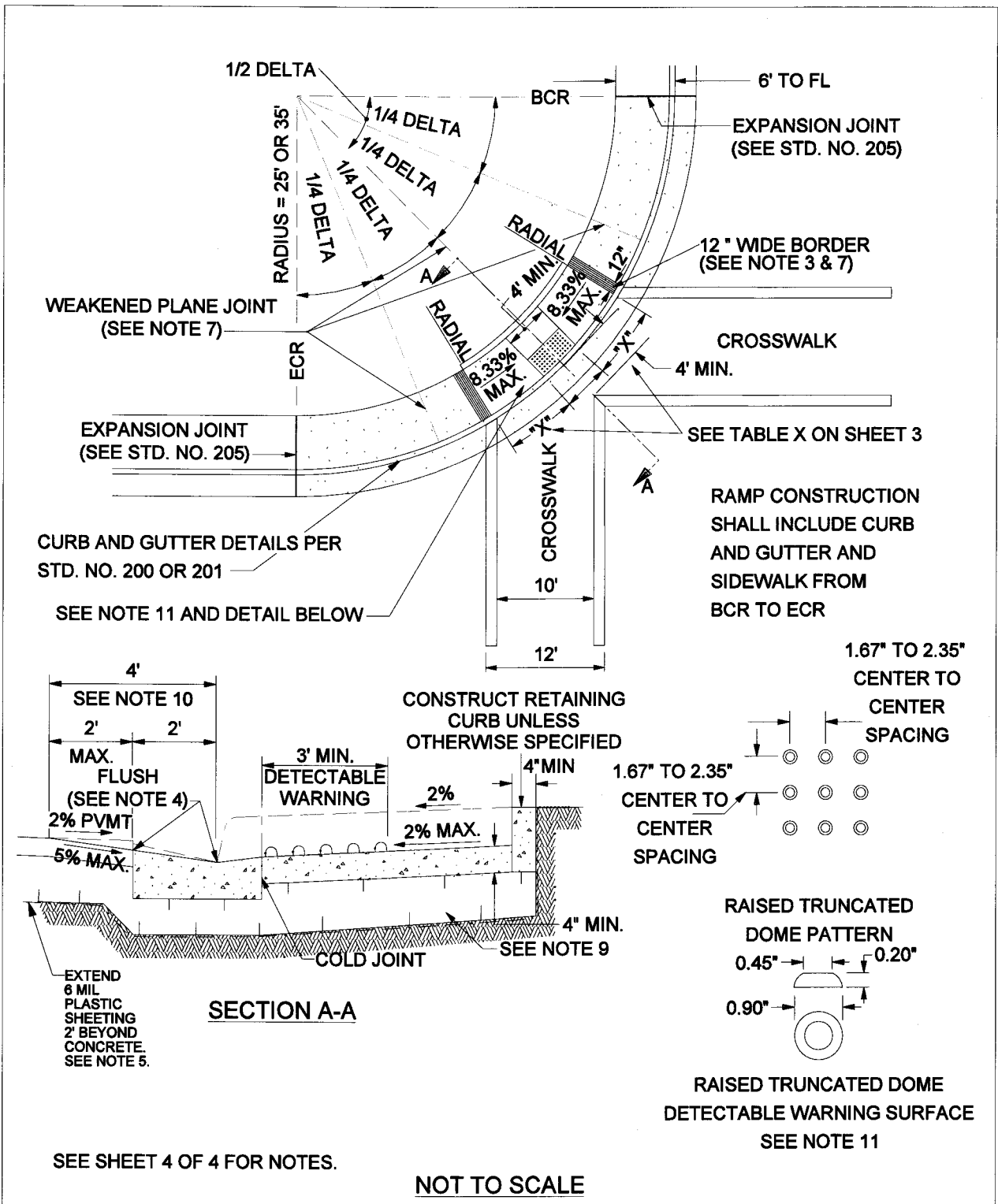
DIRECTOR OF TRANSPORTATION  
GEORGE A. JOHNSON, RCE 42328

COUNTY OF RIVERSIDE

**CURB RAMP CASE A**


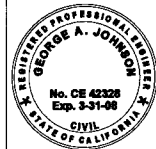
REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-77, 5-80	11-04	1			4			
10-81, 6-82		2			5			
9-88, 2-90		3			6			

STANDARD NO. 403 (1 OF 4)



SEE SHEET 4 OF 4 FOR NOTES.

NOT TO SCALE

APPROVED BY:						COUNTY OF RIVERSIDE											
 DIRECTOR OF TRANSPORTATION GEORGE A. JOHNSON, RCE 42328												<b>CURB RAMP CASE B</b>					
REVISIONS		REV.	BY:	APR'D	DATE	REV.		BY:	APR'D	DATE	STANDARD NO. 403 (2 OF 4)						
8-77, 5-80		11-04	1			4					12-97						
10-81, 6-82			2			5											
9-88, 2-90			3			6											



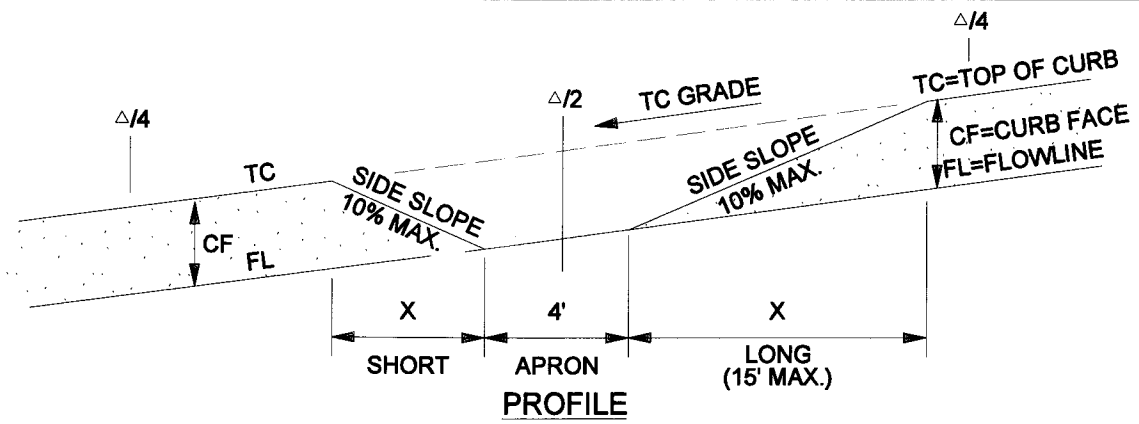


TABLE X

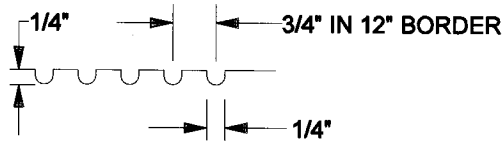
CF (IN)	RADIUS (FT)	SIDE SLOPE	X	TC GRADE (ALONG CURB RETURN)					
				1%	2%	3%	4%	5%	6%
6"	35'	10%	X <sub>S</sub>	4.6	4.2	3.9	3.6	3.4	3.2
			X <sub>L</sub>	5.6	6.3	7.2	8.4	10.0	12.5
8"	35'	10%	X <sub>S</sub>	6.1	5.6	5.2	4.8	4.5	4.2
			X <sub>L</sub>	7.5	8.4	9.6	11.2	13.4	15.0

TO CALCULATE "X" DIMENSION:

SHORT SIDE (DOWN SLOPE):  $X_S (FT) = \frac{\text{CURB FACE (FT)}}{\text{SIDE SLOPE} + \text{TC GRADE}}$

LONG SIDE (UP SLOPE):  $X_L (FT) = \frac{\text{CURB FACE (FT)}}{\text{SIDE SLOPE} - \text{TC GRADE}}$

ENGINEER TO SHOW X<sub>S</sub> AND X<sub>L</sub> ON IMPROVEMENT PLANS

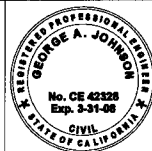


GROOVING DETAIL

APPROVED BY:

*George A. Johnson*  
 DIRECTOR OF TRANSPORTATION  
 GEORGE A. JOHNSON, RCE 42328

DATE: 05/05/07



COUNTY OF RIVERSIDE

**CURB RAMP**

REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-77, 5-80	11-04	1				4			
10-81, 6-82		2				5			
9-88, 2-90		3				6			

STANDARD NO. 403 (3 OF 4)

**CONSTRUCTION NOTES:**

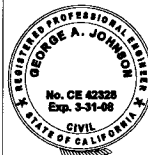
1. IF DISTANCE FROM CURB TO BACK OF SIDEWALK IS TOO SHORT TO ACCOMODATE RAMP AND 4' LANDING, THEN USE THE CASE "B" RAMP.
2. IF SIDEWALK IS LESS THAN 6' WIDE, THE FULL WIDTH OF THE SIDEWALK SHALL BE DEPRESSED AS SHOWN IN CASE B. MINIMUM SIDEWALK WIDTH IS 4' FROM BACK OF CURB.
3. THE RAMP SHALL HAVE A 12" WIDE BORDER WITH GROOVES 1/4" WIDE AND 1/4" DEEP APPROXIMATELY 3/4" ON CENTER. SEE GROOVING DETAIL.
4. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
5. WHEN ABUTTING SOIL HAS A HIGH SULFATE CONTENT, SPECIAL CONSIDERATIONS ARE REQUIRED. SEE SPECIFICATIONS (SECTION 16.04).
6. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP (EXCEPT IN CASE B).
7. CONSTRUCT WEAKENED PLANE JOINTS AT 1/4 DELTAS WHEN RADIUS EQUALS 35' AND AT INSIDE EDGE OF GROOVED BORDER WHEN RADIUS EQUALS 25'.
8. IF EXPANSIVE SOIL IS ENCOUNTERED, THEN RAMP SHALL BE CONSTRUCTED OVER CLASS 2 AGGREGATE MATERIAL.
9. CONCRETE SHALL BE CLASS B.
10. MAXIMUM SLOPES OF ADJOINING GUTTERS: THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5% WITHIN 4' OF THE BOTTOM OF THE CURB RAMP.
11. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL CURB RAMPS THAT ENTER INTO A VEHICULAR TRAVEL WAY.

APPROVED BY:

*George A. Johnson*

DATE: 11/15/04

DIRECTOR OF TRANSPORTATION  
GEORGE A. JOHNSON, RCE 42328



COUNTY OF RIVERSIDE

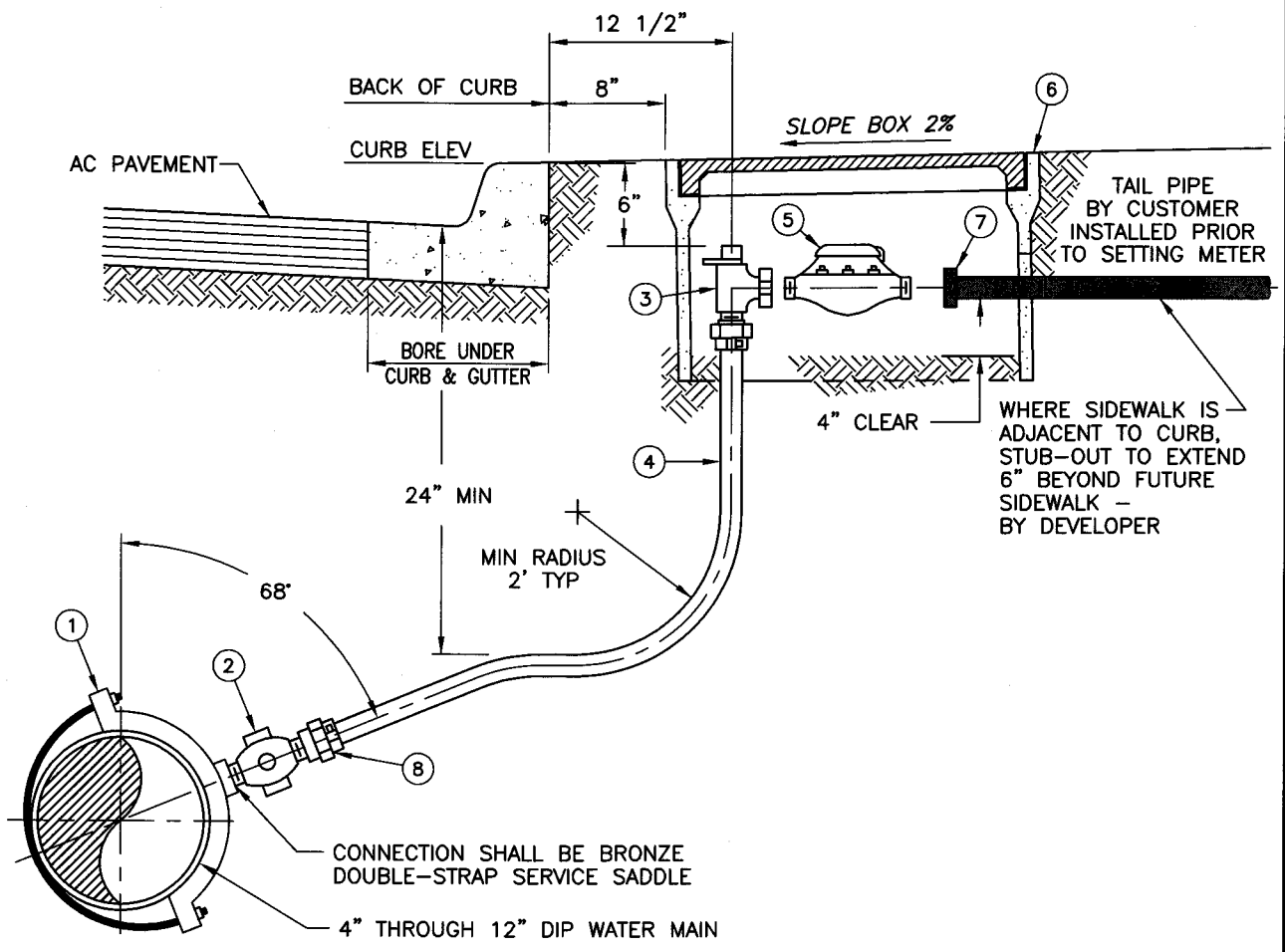
**CURB RAMP  
CONSTRUCTION NOTES**

REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-77, 5-80	11-04	1				4			
10-81, 6-82		2				5			
9-88, 2-90		3				6			

STANDARD NO. 403 (4 OF 4)

12-97

APPROV. CHECK DATE DRAWN  
 3  
 APPROV. CHECK DATE DRAWN  
 2  
 APPROV. CHECK DATE DRAWN  
 1  
 APPROV. CHECK DATE DRAWN  
 0

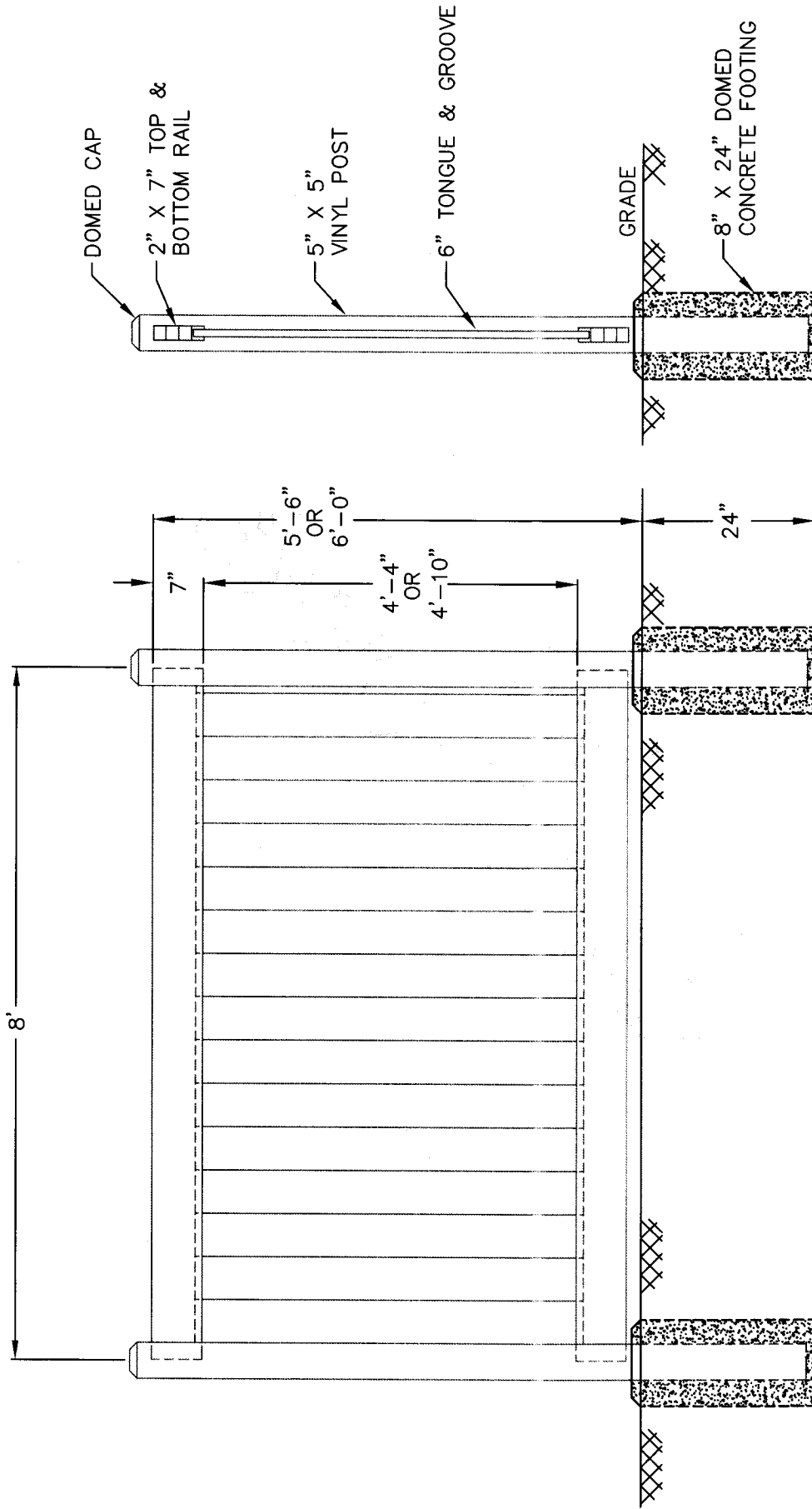


**TYPICAL STREET INSTALLATION**

BILL OF MATERIALS	
ITEM	QUANTITY
① BRONZE DOUBLE-STRAP SERVICE SADDLE (IPT)	1
② 1" BRONZE MIPT x MIPT BALL CORP STOP	1
③ ANGLE BALL METER STOP COMPRESSION x METER COUPLING (WITH 1" x 3/4" ADAPTER FOR 3/4" METER) PER SPECIFICATIONS	1
④ 1" TUBING, SOFT COPPER, TYPE K)	VARIES
⑤ METER INSTALLED BY CITY FORCES	1
⑥ METER BOX PER SPECIFICATIONS AND/OR PLANS.	1
⑦ 1" OR 3/4" COUPLINGS	1
⑧ 1" FIPT x COMPRESSION ADAPTOR	1

- NOTES:**
- METER BOX COVER TO BE CAST IRON WHERE BOX IS IN ALLEY OR DRIVEWAY.
  - CONTRACTOR SHALL INSTALL METER BOXES WITH READING HOLE AT TIME ANGLE METER STOPS ARE INSTALLED.
  - CITY WILL FURNISH A TEMPORARY SERVICE METER JUMPER, PRIOR TO INSTALLING METER, UPON PAYMENT OF FEES.
  - METER BOX TO BE CLEANED BEFORE NEW METER CAN BE INSTALLED BY CITY FORCES.

<b>WATER          DISTRIBUTION &amp; TRANSMISSION          CONSTRUCTION METHODS</b>	<b>1-INCH WATER SERVICE</b>
---	-----------------------------



AVAILABLE THROUGH  
 FENCEWORKS INC.  
 1-800-350-5620

NOTE:  
 COLORS AVAILABLE  
 WHITE & TAN

DETAIL NAME:

# FW- VINYL PRIVACY FENCE

RIVERSIDE  
 OCEANSIDE  
 ANAHEIM  
 PALMDALE  
 MENIFEE  
 BAKERSFIELD  
 SANTA PAULA  
 EL CENTRO



PHONE #

**800-350-5620**

DETAIL NO.

**V-001**