

The conduit shall be placed in the bottom of the trench and the trench shall be backfilled with two sack slurry to finish grade. Prior to final paving, the slurry backfill shall be excavated to a depth of 0.30' below the final pavement surface.

If so directed by the Engineer, the two sack slurry backfill shall be installed to a depth of 0.30' below the final pavement surface. The slurry shall be allowed to cure a minimum of two days prior to final paving with a commercial Type A asphalt concrete.

Prior to paving, the Contractor shall grind the existing pavement a minimum of 0.10' deep at a width of 3 feet minimum, centered along the full length of the trench.

#### PULL BOXES

Pull boxes shall conform to the provisions in Section 86-2.06, "Pull Boxes" of the Standard Specifications and these Special Provisions.

Traffic pull boxes shall conform to the provisions in Section 86-2.07, "Traffic Pull Boxes" of the Standard Specifications and these Special Provisions.

Pull box covers shall be marked in accordance with Standard Plans ES-8. Pull box covers shall not be marked "Caltrans" except for projects on State of California right of way.

Pull boxes shall be placed with their tops flush with surrounding finish grade or as directed by the Engineer.

Pull boxes shall be installed behind the curb or as shown on the plans and shall be spaced at no more than 500 feet intervals. The exact locations shall be determined by the Engineer.

Pull boxes installed in unimproved areas, locations not protected by concrete curb and gutter, shall be traffic bearing pull box and marked with Type L markers.

#### CONDUCTORS AND WIRING

Conductors shall conform to the provisions in Section 86-2.08, "Conductors" of the Standard Specifications and these Special Provisions.

Multiple circuit conductors shall conform to the provisions in Section 86-2.08B, "Multiple Circuit Conductors" of the Standard Specifications and these Special Provisions.

Signal cable conductors shall conform to the provisions in Section 86-2.08D, "Signal Cable" of the Standard Specifications and these Special Provisions.

The Contractor shall solder each end of SIC conductor to a terminal lug using the hot iron method and connect them to the terminal block inside the controller cabinet in the following order:

Terminal Block No.	SIC Conductor Color Coding (County)	SIC Conductor Color Coding (Caltrans)
1	White (White/Blue Pair)	White (Black/White Pair)
2	Blue (White/Blue Pair)	Black (Black/White Pair)
3	White (White/Orange Pair)	Red (Black/Red Pair)
4	Orange (White/Orange Pair)	Black (Black/Red Pair)
5	White (White/Green Pair)	Brown (Black/Brown Pair)
6	Green (White/Green Pair)	Black (Black/Brown Pair)
7	White (White/Brown Pair)	Blue (Black/Blue Pair)
8	Brown (White/Brown Pair)	Black (Black/Blue Pair)
9	White (White/Slate Pair)	Green (Black/Green Pair)
10	Slate (White/Slate Pair)	Black (Black/Green Pair)
11	Red (Red/Blue Pair)	Yellow (Black/Yellow Pair)
12	Blue (Red/Blue Pair)	Black (Black/Yellow Pair)

BONDING AND GROUNDING

Bonding and grounding shall conform to the provisions in Section 86-2.10, "Bonding and Grounding" of the Standard Specifications and these Special Provisions.

Grounding jumper shall be attached by a 3/16 inch or larger brass bolt in the signal standard or controller pedestal and shall be run to the conduit, ground rod or bonding wire in adjacent pull box.

Grounding jumper shall be visible after cap has been poured on foundation.

Equipment grounding jumpers shall be installed for all conduits.

A No.12 minimum bare copper wire shall run continuously in circuits, including conduits that contain only signal interconnect cable and/or loop detector leading cable.

SERVICE

Service shall conform to the provisions in Section 86-2.11, "Service" of the Standard Specifications and these Special Provisions.

Service equipment enclosure shall be Type III-CF, as shown on the Standard Plans ES-2F, and shall conform to the following:

1. 120 / 240 volt, 2 meter service unless otherwise shown on the plans.

## SERVICE IDENTIFICATION

The service equipment enclosure shall provide the address of the intersection as shown on the approved plan. Address location shall be on the front upper panel. The meters shall also be labeled "LS3" (lighting meter) and "TC1" (signal meter) by lettering applied to the exterior of the enclosure in accordance with these Special Provisions, or as directed by the Engineer.

Lettering markings shall be black in color, with a 2 inches minimum size in block letter form. Markings shall be applied to a brushed aluminum, stainless steel, or other non-corroding metallic plate, as approved by the Engineer. Plate shall be white in color. All paint and lettering markings shall conform in all respects to Federal Specification TT-E-489, latest revision, Class A, Air Drying. Said plate shall be affixed in a permanent manner by riveting or with stainless steel bolts and nuts. Bolts shall be peened after tightening. All materials used for affixing address plate shall be non-corroding. All alternate materials and methods must be approved by the Engineer prior to implementation.

## TESTING

Testing and Field Testing shall conform to the provisions in Section 86-2.14, "Testing" of the Standard Specifications and these Special Provisions.

Specific testing requirements for various systems and components shall be in accordance with the Special Provisions entitled to each herein.

The complete controller assembly and Battery Backup System shall be delivered to the following location or location as directed by the Engineer for testing:

Traffic Signal Shop  
Riverside County Transportation Department  
McKenzie Highway Operations Center  
2950 Washington Street  
Riverside, California 92504

The Contractor shall allow a minimum of 15 working days for operational testing and adjustment. An additional 15 days period shall be allowed for retesting should the equipment fail.

The conflict monitor unit shall be tested in the field before signal turn on.

\* Load Switches:

Switching circuit shall be contained in a replacement module (cube type) sealed in epoxy and rated at 15 amperes load (25 Amp triac). Pin 11 on all load switch sockets shall be wired to AC. Input and output indicators shall be installed on all load switches.

All load switch sockets shall have individual wire terminals. Printed circuit boards will not be allowed.

\* Flasher units:

Switching circuit shall be contained in a replacement module (cube type) sealed in epoxy and rated at 15 amperes load (25 Amp triac).

\* Conflict monitor shall be EDI Model 2010ECL or equivalent with a red monitor assembly circuit board and capable of monitoring green, amber and red indications.

\* Loop detector sensor unit shall be Model 222:

- Detector unit shall have delay timers adjustable from zero to a minimum of 30 seconds and extension timers adjustable from zero to a minimum of 7 seconds.
- Delay timers shall delay calls only during display of the associated red or yellow indications. If a vehicle departs the area of detection prior to expiration of the assigned delay period, the timer shall reset and no call shall be placed upon the controller. During display of the associated green indication, detectors shall operate in the present mode and calls shall not be delayed.

\* Power Distribution Assembly shall be Model PDA-2.

\* A twelve-position interconnect terminal strip.

The Contractor shall furnish the following spare equipments/components:

<u>Description</u>	<u>Model</u>	<u>Quantity</u>
Cabinet	332	0
Controller Unit (local)	170E	0
Controller Unit (master)	170E	0
Switch Pack	200	0
Flasher Unit	204	0
Conflict Monitor Unit	2010	0
2-Channel Loop Detector	222	0
2-Channel DC Isolator	242	0
MODEM Module	400	0
Program Module	412F	0

Signal section housing, backplates and visors shall be metal type. Backplates shall be louvered. Visors shall be the "tunnel" type, unless otherwise specified. Top opening of signal heads shall be sealed with neoprene gaskets.

Signal Mounting Assemblies, Backplates, Signal Sections and Housings shall be made from the same manufacturer and the section assemblies shall be uniform in appearance and alignment.

All vehicle signal indications shall be 12-inch diameter Light Emitting Diode (LED) modules in accordance with the following:

1. All circular LED modules shall comply with Institute of Transportation Engineers (ITE) Vehicle Traffic Control Signal Heads (VETCH) - LED Circular Supplement, Adopted June 27, 2005.
2. All arrow LED modules shall comply with ITE VETCH - LED Vehicle Arrow Traffic Signal Supplement, Adopted July 1, 2007.
3. All modules shall fit in existing signal housings without the use of special tools.
4. All modules shall be certified in the Intertek LED Traffic Signal Modules Certification Program and be labeled with the ETL Verified Label as follows:



5. Luminous intensity requirements of the VTCSH must be met across the entire temperature range from -40°C to 74°C, (-40°F to +165°F).
6. The following cable colors shall be used for the AC power leads on all modules: white for common, red for the red module line, yellow for the yellow module line, and brown for the green module line.
7. The AC power leads shall exit the module via a rubber grommet strain relief, and shall be terminated with quick connect terminals with spade tab adapters. The leads shall be separate at the point at which they leave the module.

PEDESTRIAN SIGNAL ASSEMBLIES

Pedestrian signals shall conform to the provisions in Section 86-4.06, "Pedestrian Signal Faces" of the Standard Specifications and these Special Provisions.

Pedestrian signals shall be provided with a polycarbonate egg crate or Z-crate screen.

Pedestrian Signal Mounting Assemblies and Pedestrian Signal Housings shall be made from the same manufacturer and the section assemblies shall be uniform in appearance and alignment.

Pedestrian signal indications shall utilize light emitting diode signal modules in accordance to the following:

1. It shall comply with ITE specification: Pedestrian Traffic Control Signal Indications (PTCSI) Part 2 - LED Pedestrian Traffic Signal Modules, Adopted March 19, 2004.
2. All modules shall fit in existing signal housings without the use of special tools.
3. All modules shall be certified in the Intertek LED Traffic Signal Modules Certification Program and be labeled with the ETL Verified Label as follows:



The PTCSI does not cover the countdown features of countdown pedestrian signal LED modules. The countdown features shall incorporate the following:

1. Fully compliant to NEMA TS-1, NEMA TS-2, Type 170, and Type 2070 traffic signal controller specifications.
2. The countdown portion of the pedestrian (ped) module shall have a high off-state input impedance so as not to provide a load indication to conflict monitors and interfere with the monitoring of the pedestrian signal. The input impedance of the countdown circuitry shall maintain a voltage reading above 25 VAC to the conflict monitor for up to four units connected on the same channel.

13. If a pedestrian button is activated during the clearance interval, some controllers can change to a second walk cycle without a don't walk phase. The countdown module shall also be capable of consecutive walk cycles. The display digits will be blank during the second walk and countdown properly during the second flashing hand.
14. The countdown ped module shall not display an erroneous or conflicting time when subjected to defective load switches. Should there be a short power interruption during the ped clearance interval or if voltage is applied to both the hand and person simultaneously the display will go to "0" then blank.
15. The countdown ped module shall have accessible dip-switches for the user selectable options. The unit shall have a removable plug on the rear allowing easy access to control the user selectable functions. The countdown is disabled when all the switches are in the "ON" position. The unit shall be shipped from the factory with the specified default setting.
16. Switch 1 - Blank Cycle Following a Timing Change - Factory default is "OFF". When this switch is "OFF" the unit will allow the time to be displayed normally during the cycle following a truncated timing such as a preemption call. The countdown shall be capable of displaying the correct time and not affected by the previous reduced cycle. The unit will require 2 consecutive reduced cycles of identical value to validate and record a new time setting. If the timing is extended the unit will record it immediately. In the "ON" position when a change in timing is detected the unit will blank out during the following cycle while the new cycle time is measured and recorded if conformed.
17. Switch 2 - Disables Auto-sync Mode - Factory default setting is "OFF". When this switch is in the "OFF" position the auto-sync is enabled. When the clearance interval begins and the initial flash of the hand is not in sync with the walk signal the unit will measure the offset and reduce the duration of the first second by the value of the offset. This will ensure the countdown reached zero at the same time as the flashing hand becomes solid. In the "ON" position there is no time correction when the flashing hand is in offset with the walk signal. The duration of the first second will not be reduced and the hand will appear solid shortly before the countdown reaches zero.
18. Switch 3 - Countdown Starts with Flashing Hand Signal - Factory default setting is "ON". When this switch is "ON" the countdown begins when the hand signal is turned on. With this switch "ON" and the auto-sync mode enabled a short power interruption will have no effect on the

24. The following color scheme shall be used for the ped module's AC power leads: Orange for the upraised hand, Blue for the walking person, and White for common. The countdown portion of the LED ped module shall be internally wired to the hand and walking person power.
25. The AC power leads shall exit the ped module via a rubber grommited strain relief, and shall be terminated with insulated female quick connect terminals with spade/tab adapters. The leads shall be separate at the point at which they leave the ped module.
26. All external wiring utilized in the ped modules shall be anti-capillary type wire to prevent the wicking of moisture to the interior of the ped module.
27. The Hand and Person Icons shall utilize separate power supplies. On countdown products, the countdown ped module must have its own power supply but may take the incoming AC power from the hand/person AC signal lines. All power supplies shall be located inside the ped module.
28. All power supplies shall be conformally coated for additional protection.
29. Off State Voltage Decay: When the hand or person icon is switched from the On state to the Off state the terminal voltage shall decay to a value less than 10 VAC RMS in less than 100 milliseconds when driven by a maximum allowed load switch leakage current of 10 milliamps peak (7.1 milliamps AC).
30. For a minimum period of 60 months, measured at 80 to 135 VAC RMS and over the ambient temperatures of  $-40^{\circ}\text{C}$  to  $+74^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+165^{\circ}\text{F}$ ), the minimum maintained luminance values for the ped modules, when measured normal to the plane of the icon surface, shall not be less than:  

Walking Person, White:  $2,200\text{ cd/m}^2$   
Upraised Hand, Portland Orange:  $1,400\text{ cd/m}^2$   
Countdown Digits, Portland Orange:  $1,400\text{ cd/m}^2$
31. The external lens shall have a textured outer surface to reduce glare.
32. Icons that are printed on the lens shall be on the interior surfaces in order to prevent scratching and abrasion to the icons.
33. All icons and numbers shall have a uniform incandescent non-pixelated appearance.
34. All exposed components of a ped module shall be suitable for prolonged exposure to the environment, without appreciable degradation that would interfere with



## PEDESTRIAN AND BICYCLE PUSH BUTTONS

Pedestrian, bicycle, and equestrian push buttons shall conform to the provisions in Section 86-5.02, "Pedestrian Push Buttons" of the Standard Specifications and these Special Provisions.

Push button shall utilize solid state Piezo switch technology, shall be ADA compliant, and shall be constructed with high impact polycarbonate alloy blend material.

Push button assembly shall be Type B per Standard Plans ES-5C.

Push button housing shall be die-cast or permanent mold cast aluminum.

Push button sign shall be porcelain enameled metal.

Push button shall be Polara Engineering Inc. Model MPBP-BY, Campbell Company TM Solid State Model 700 or approved equal. The button shall be yellow and its outer body shall be black.

## DETECTORS

Detectors shall conform to the provisions in Section 86-5, "Detectors" of the Standard Specifications and these Special Provisions.

Delay timers shall delay calls only during display of the associated red or yellow indications. If a vehicle departs the area of detection prior to expiration of the assigned delay period, the timer shall reset and no call shall be placed upon the controller. During display of the associated green indication, detectors shall operate in the present mode and calls shall not be delayed.

### Inductive Loops

Detector loops' configuration shall be Type E unless otherwise shown on the construction plan, in these special Provisions or as directed by the Engineer.

Limit Line detector loop configuration shall be modified Type E with diagonal saw cuts and wire winding conforming to Type D loop configuration.

Detector loops' wire shall be Type 2.

Detector loops' lead-in cable shall be Type B.

Detector loops' curb terminations shall be Type A in accordance with Standard Plans ES-5D. The conduit shall extend 18 inches into the paved roadway.

When a vehicle is detected crossing a detection zone, the corners of the detection zone shall flash on the video overlay display screen to conform the detection of the vehicle.

Distance between the detection zone placement and the camera shall not be more than a distance of ten times the mounting height of the camera.

#### Functional Capabilities:

System must have a single point access to multiple rack-mounted video detection units. The access device shall provide interface capabilities to enable multiple rack-mounted video detection processors to be locally and remotely accessed from a single point via one set of user interface devices.

The video detection processor (VDP) shall process video from one or two sources. The video input to the VDP shall be in NTSC or PAL composite video format and shall be digitized and analyzed in real time. Dual video VDP's shall process images from both inputs simultaneously.

The camera shall be able to transmit the composite video signal, with minimal signal degradation, up to 1000 feet under ideal conditions.

The VDP shall have a nine-pin RS232 port that is multi-drop compatible for communications with an external computer. The VDP shall be able to accept new detector patterns from and send its detection patterns to an external computer through this RS232 port. A Windows™ based software designed for local or remote connection for uploading and downloading data, and providing video capture, real-time detection indication and detection zone modification capability shall be provided with the system.

The extension module (EM) shall be available to avoid the need of rewiring the detector rack, by enabling the user to plug an extension module into the appropriate slot in the detector rack. The extension module shall be connected to the VDP by an 8-wire cable with modular connectors. VDP and EM communications shall be accommodated by methods using differential signals to reject electrically coupled noise. The extension module shall be available in both 2 and 4 channel configurations. EM configurations shall be programmable from the VDP.

The VDP shall provide a minimum of 24 channels of vehicle presence detection/detection zones per camera through a standard detector rack edge connector and one or more extension modules.

The VDP shall store up to three different detection zone patterns within the VDP memory. The VDP's memory shall be non-volatile to prevent data loss during power outages. The VDP shall continue to operate (e.g. detect vehicles) using the existing zone configurations even when the operator is defining/modifying a zone pattern. The new zone configuration shall not go into effect until

standard detector rack. Detector rack rewiring shall not be required or shall be minimized.

The VDP and EM shall operate in a temperature range from -34°C to +74°C and a humidity range from 0%RH to 95%RH, non-condensing.

The VDP and EM shall be powered by 12 or 24 volts DC. These modules shall automatically compensate for the different input voltages.

VDP power consumption shall not exceed 300 milliamps at 24 VDC. The EM power consumption shall not exceed 120 milliamps at 24 VDC.

The VDP shall include an RS232 port for serial communications with a remote computer. The VDP RS232 port shall be multi-drop compatible. This port shall be a 9-pin "D" subminiature connector on the front of the VDP.

The VDP shall utilize flash memory technology to enable the loading of modified or enhanced software through the RS232 port without modifying the VDP hardware.

The VDP and EM shall include detector output pin out compatibility with industry standard detector racks.

The front of the VDP shall include detection indications, such as LED's, for each channel of detection that display detector outputs in real time when the system is operational.

The front of the VDP shall include one or two BNC video input connection suitable for RS170 video inputs as required. The video input shall include a switch selectable 75-ohm or high impedance termination to allow camera video to be route to other devices, as well as input to the VDP for vehicle detection. Video must be inputted via a BNC connector on the front face of the processor. RCA type connectors/jacks for video input are not allowed. Video shall not be routed via the edge connectors of the processor.

The front of the VDP shall include one BNC video output providing real time video output that can be routed to other devices. A RCA type connector/jack for video output is not allowed.

The front panel of the VDP and EM shall have a detector test switch to allow the user to place calls on each channel. The test switch shall be able to place either a constant call or a momentary call depending on the position of the switch.

#### Video Detection Camera:

The VDC used for traffic detection shall be furnished by the VDP supplier and shall be qualified by the supplier to ensure proper system operation.

the VDP supplier. Video and power shall not be connected within the same connector.

The video signal output by the camera shall be black and white in RS-170 or CCIR format.

The video signal shall be fully isolated from the camera enclosure and power cabling.

#### Cabling And Cable Connections

Interface among the VDPs and EMS shall be RJ-45 interface connectors.

The coaxial cable to be used between the camera and the VDP in the traffic cabinet shall be Belden 8281. The coax cable shall be a continuous unbroken run from the camera to the VDP. This cable shall be suitable for installation in conduit or overhead with appropriate span wire. 75-ohm BNC plug connectors should be used at both the camera and cabinet ends. The coaxial cable, BNC connector, and crimping tool shall be approved by the supplier of the video detection system, and the manufacturer's instructions must be followed to ensure proper connection.

The power cabling shall be 16 AWG three conductor cable with a minimum outside diameter of 0.325 inch and a maximum diameter of 0.49 inch. The cabling shall comply with the National Electric Code, as well as local electrical codes. Cameras may not acquire power from the luminaire.

All service cables shall run continuously into the service cabinet. A 1-amp inline fuse shall be provided for each service cable and a minimum of 4 or 8-position terminal block shall be provided as directed by the Engineer inside the service cabinet.

#### Maintenance And Support

The supplier shall maintain an adequate inventory of parts to support maintenance and repair of the system. These parts shall be available for delivery within 30 days of placement of an acceptable order at the supplier's then current pricing and terms of sale for said parts.

The supplier shall maintain an ongoing program of technical support for the access unit and video detection system. This technical support shall be available via telephone, or via personnel sent to the installation site upon placement of an acceptable order at the supplier's then current pricing and terms of sale for on site technical support services.

Installation or training support shall be provided by factory-authorized representative.

## EMERGENCY VEHICLE PRE-EMPTION SYSTEM

The Contractor shall furnish and install complete and functioning emergency vehicle preemption (EVP) system as intended per plans, the manufacturer, and these Special Provisions. The transmitting equipment is not included in this contract.

The EVP system shall consist of the following equipments or components:

1. Optical detector for each approach, as shown on the plans.
2. Rack-mounted 2-channel phase selectors for 8-phase operation.
3. Detector cable.

The Contractor shall furnish the following spare EVP equipments or components:

1. One (1) rack-mounted 2-channel phase selector.
2. One (1) optical detector.

The EVP system shall be designed to prevent simultaneous pre-emption by two or more emergency vehicles on separate approaches to the intersection.

The Engineer shall approve EVP sequence of operation prior to timing and turn-on of each respective traffic signal.

At locations where EVP detectors are not to be installed, EVP cable shall be installed for future use as follows:

1. EVP cable shall be installed, without splices, between the controller cabinet and each mast arm traffic signal pole.
2. EVP cable shall be connected to the EVP rack terminals within the controller cabinet.
3. Each mast arm EVP detector mounting shall be drilled and tapped in its ultimate location. In lieu of the detector, install approved water tight UL listed electrical box. EVP cable shall be installed to terminate within the mast arm mounted electrical box. Excess cable shall be coiled within the electrical box sufficient for future installation of the EVP system.

Each phase selector shall be capable of operating two or more channels, each of which shall provide an independent output for each separate input.

Each phase selector module, when used with its associated optical detectors, shall perform as a minimum, the following:

1. Receive Class I and Class II signals.
2. Decode the signals based on optical frequency, at 9.639 Hz + or -0.119 Hz for Class I signals and 14.035 Hz + or -0.255 Hz for Class II signals.
3. Establish the validity of received signals based on optical frequency and length of time received. A signal shall be considered valid only when received for more than 0.50 second. No combination of Class I signals shall be recognized as a Class II signal regardless of the number of signals being received, up to a maximum of 10 signals. Once a valid signal has been recognized, the effect shall be held by the module, in the event of temporary loss of signal for a minimum period of 4.0 seconds.
4. Provide an output for each channel that will result in a "low" or grounded condition of the appropriate input of a Model 170 controller unit. For a Class I signal, the output shall be a 6.25 Hz + or -0.1%, rectangular waveform with a 50% duty cycle. For Class II signal, the output shall be steady.

Each phase selector module shall receive power from the controller cabinet at either 12 VDC or 120 VAC.

Auxiliary inputs for each channel may enter each module through a front panel connector or by a parallel hook-up of the associated detector cables at the input location.

The phase selector module shall provide an optically isolated output for each channel to the Model 170 controller unit. All outputs signals shall comply with NEMA signal level definitions and shall be compatible with the Model 170 controller assemblies' inputs.

Each phase selector model shall be provided with means of preventing transients received by the detector from affecting the Model 170 controller assembly.

Each phase selector shall have a single connector board and shall occupy one slot of the input file. The front panel of each phase selector module shall have a handle to facilitate withdrawal and have the following controls and functions for each channel:

1. Range adjustments for both class I and Class II signals.

## System Operation

The Contractor shall demonstrate that the components of each system are compatible and will perform satisfactorily as a system. Satisfactorily performance shall be determined using the following test procedure during the functional test period:

- A. Each system to be used for testing shall consist of an optical detector, an optical detector cable and a phase selector module.
- B. The phase selector modules shall be installed in the proper input file slot of the Model 332 or 333 controller cabinet assembly.
- C. Two tests shall be conducted; one using a Class I signal emitter and a distance of 1000 feet between the emitter and the detector, the other using a Class II signal emitter and a distance of 1800 ft between the emitter and the detector. Range adjustments on the module shall be set to "Maximum" for each test.
- D. During the tests of the Class I and Class II emitters, the proper response from the Model 170E and 2070 controller unit during the "ON" interval and there shall be no improper operation of the Model 170E or 2070 controller unit or the monitor during the "OFF" interval.

The Contractor shall arrange for, and pay the cost of, the services of a knowledgeable representative from the EVP manufacturer, to be present for the first day of the traffic signal and lighting function test to insure proper installation and functioning of the EVP equipment.

The Contractor shall arrange for, and pay the cost of, the services of the controller manufacturer to perform any controller modifications required for the installation, or operation of the EVP equipment.

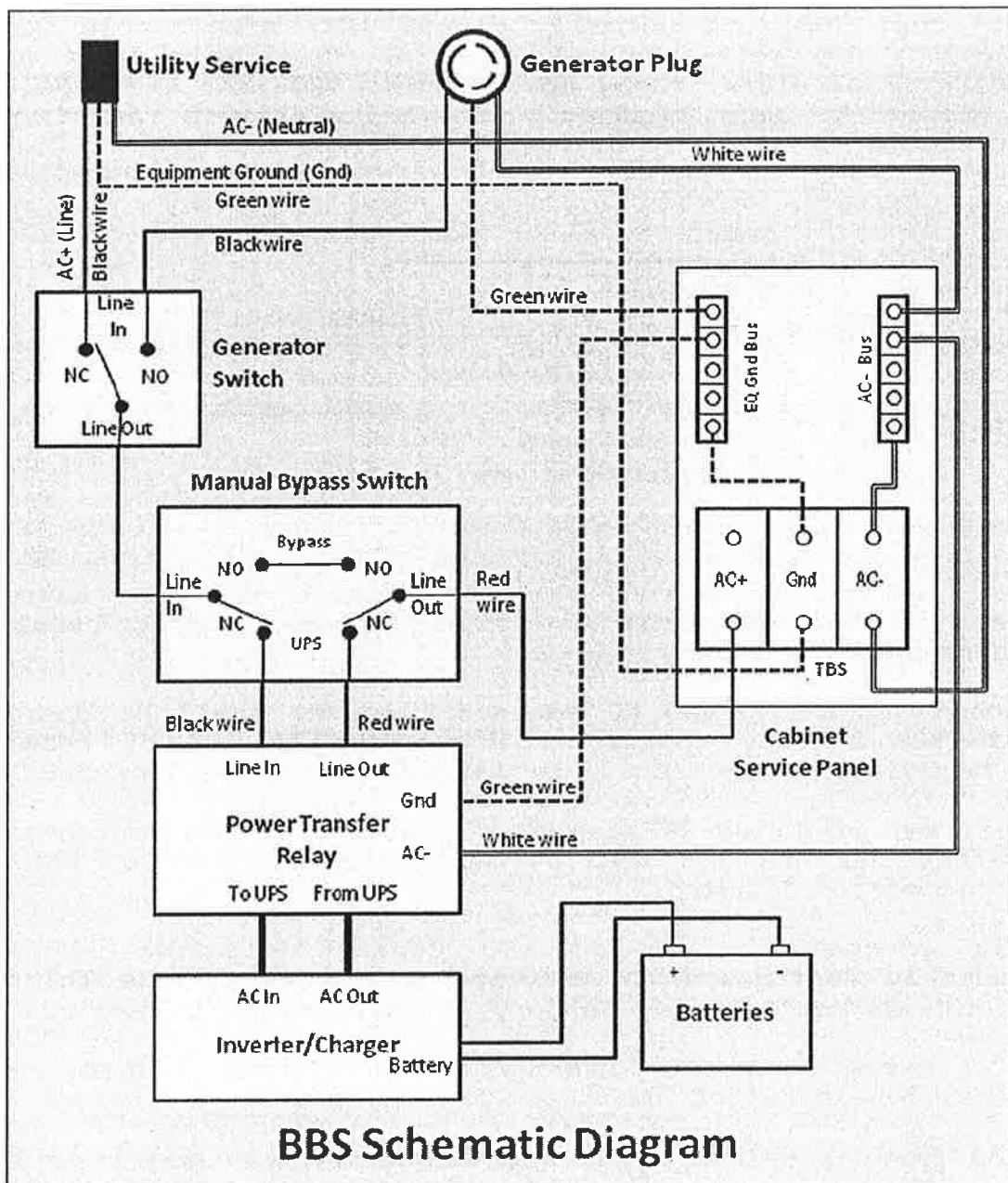
## GPS UNIVERSAL TIME SOURCE

The GPS Universal Time Source shall be a McCain model M32755 or approved equal. Approval of any alternate time source shall be determined by the Engineer.

The GPS Universal Time Source shall incorporate a precision GPS receiver and a microprocessor to decode the time signals received from the GPS satellite network. The Universal Time Source shall interface this time signal to a model 170E controller (using Bi-Tran local software) to provide an accurate clock update to the traffic signal controller.

The BBS shall have been installed and operational for a period of one year at a signalized intersection in the United States. The supplied BBS shall be listed on the Caltrans pre-qualified product list for the BBS. That list is available at the following Caltrans website: <http://www.dot.ca.gov/hq/esc/ttsb/electrical/bbs.htm>.

The BBS shall include, but not limited to the following: cabinet, utility line/generator switch, inverter/charger, power transfer relay, a separate manually operated non-electronic bypass switch, batteries, and all necessary hardware, shelving, and interconnect wiring. The following figure shows BBS components interconnecting with each other and the controller cabinet to ensure interchangeability between all BBS manufacturers.





The BBS shall use a temperature-compensated battery charging system. The charging system shall compensate over a range of 2.5 - 4.0 mV/ °C per cell.

The temperature sensor shall be external to the inverter/charger unit. The temperature sensor shall come with 10 feet of wire.

Batteries shall not be recharged when battery temperature exceeds 50°C ± 3°C.

BBS shall bypass the utility line power whenever the utility line voltage is outside of the following voltage range: 100VAC to 130VAC (± 2VAC).

When utilizing battery power, the BBS output voltage shall be between 110 VAC and 125 VAC, pure sine wave output, ≤ 3% THD, 60Hz ± 3Hz.

BBS shall be compatible with NEMA and Model 332 Cabinets, Model 170, 390 and 2070 Controllers and cabinet components for full time operation.

In cases of low (below 100VAC) or absent utility line power, when the utility line power has been restored at above 105 VAC ± 2 VAC for more than 30 seconds, the BBS shall transfer from battery backed inverter mode back to utility line mode.

In cases of high utility line power (above 130VAC), when the utility line power has been restored at below 125VAC ± 2VAC for more than 30 seconds, the BBS shall transfer from battery backed inverter mode back to utility line mode.

The BBS shall have an automatic tap to step up or step down the output voltage by 10 percent. The resulting output voltages shall remain within the above prescribed voltage range: 100VAC to 130VAC. This capability will extend BBS range for operating on input AC and not reverting to battery power.

BBS shall be equipped to prevent a malfunction feedback to the cabinet or from feeding back to the utility service.

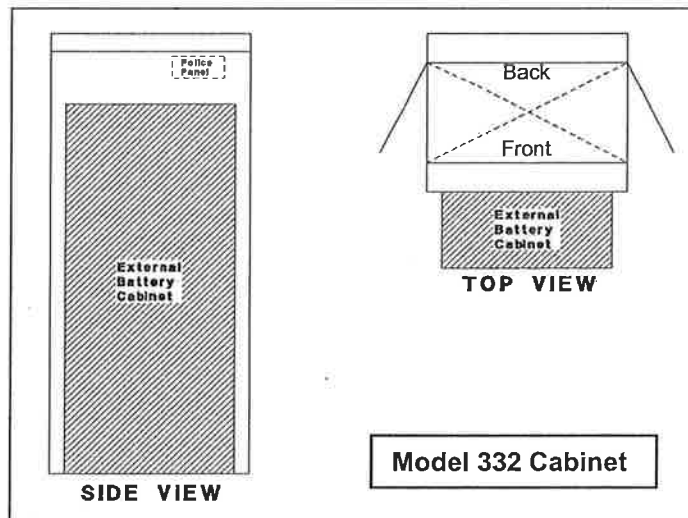
In the event of inverter/charger failure, battery failure or complete battery discharge, the power transfer relay shall revert to the NC (and de-energized) state, where utility line power is connected to the cabinet.

Recharge time for the battery, from "protective low-cutoff" to 80% or more of full battery charge capacity, shall not exceed twenty (20) hours.

long as shelf and batteries do not interfere with controller unit and C1 plug.

#### External Battery Cabinet Option

Batteries shall be housed in an external cabinet mounted to the side of the controller cabinet as shown in the following figure or as directed by the Engineer with a minimum of eight bolts:



If BBS is installed at the back of the controller cabinet, the modification shall include a minimum of 36" wide concrete walkway access to the BBS without encroaching outside the right-of-way. BBS shall be installed at the front of the controller cabinet (in locations where the back of the controller cabinet has limited right-of-way or conflicting structures and facilities and other obstructions), the BBS cabinet shall not cover the police panel. The BBS cabinet shall also not hinder the access ramp's compliance with ADA requirements.

Four shelves shall be provided within the battery cabinet. There shall be a minimum of 12" clearance between shelves. Each shelf shall be a minimum of 9" x 25", and capable of supporting a minimum of 125 lbs. Batteries shall be mounted on individual shelves

The external battery cabinet shall be NEMA 3R rated in accordance to Section 2 - Housings of the Chapter 7 of TEES, dated August 16, 2002, for the construction of the cabinet and anodic coating finish.

The external battery cabinet shall be ventilated through the use of louvered vents, filter, and one thermostatically controlled fan in accordance to Section 2 - Housings of the Chapter 7 of TEES, dated August 16, 2002.

External battery cabinet fan shall be AC operated from the same line output of the Manual Bypass Switch that supplies power to the controller cabinet.

from the BBS LCD screen. The event log shall be display and print out in plain English when output the RS232 or USB ports.

### Battery System

Individual batteries shall be 12V, 105 amp-hour type, and shall be easily replaced and commercially available off the shelf.

Batteries used for BBS shall consist of 4 batteries with a cumulative minimum rated capacity of 240 amp-hours.

Batteries shall be deep cycle, sealed prismatic lead-calcium based AGM/VRLA (Absorbed Glass Mat/ Valve Regulated Lead Acid).

Batteries shall be certified by the manufacturer to operate over a temperature range of - 25°C to +74°C.

The batteries shall be provided with appropriate interconnect wiring and corrosion-resistant mounting trays and/or brackets appropriate for the cabinet into which they will be installed.

Batteries shall indicate maximum recharge data and recharging cycles.

### Battery Harness

Battery interconnect wiring shall be via two-part modular harness:

Part I shall be equipped with red (+) and black (-) cabling that can be permanently connected to the positive and negative posts of each battery. Each red and black pair shall be terminated into a Molex, polarized - keyed battery cable connector or equivalent. The length of the harness between batteries shall be a minimum of 12".

Part II shall be equipped with the mating Power Pole style connector for the batteries and a single, insulated Power Pole style connection to the inverter/charger unit. Harness shall be fully insulated and constructed to allow batteries to be quickly and easily connected in any order to ensure proper polarity and circuit configuration. The length of the battery interconnect harness shall be a minimum of 60" from the Inverter/Charger plug to the first battery in the string.

Power Pole connectors may be either one-piece or two-piece. If a two-piece connector is used, a locking pin shall be used to prevent the connectors from separating.

All battery interconnect harness wiring shall be UL Style 1015 CSA TEW or Welding Style Cable or equivalent, all of proper gauge with respect to design current and with sufficient strand count for flexibility and ease of handling.

Battery terminals shall be covered and insulated with molded boots so as to prevent accidental shorting.

## PAYMENT

Full compensation for transporting and furnishing materials and equipments; installing and modifying the complete and operational traffic signal and lighting system, including foundations; providing product warranties and documentations; programming and testing equipments; adjustment of existing pull boxes; maintaining existing or temporary signal and/or beacons, including all materials, equipment, labor and incidentals involved as specified herein, elsewhere in these Special Provisions and plans shall be included in the lump sum price paid for Modify Signal And Lighting, and no additional compensation will be allowed therefor.

## OBSTRUCTIONS:

Attention is directed to Sections 8-1.10, "Utility and Non-Highway Facilities", and 15, "Existing Highway Facilities" of the 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" 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 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.

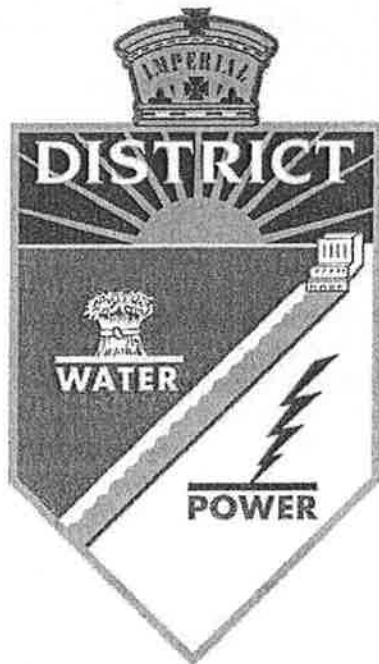
Full compensation for all costs, including labor, equipment, materials and incidentals, required to comply with the requirements of this section shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

Imperial Irrigation District  
Coachella Valley  
Power Division

COUNTY OF RIVERSIDE  
Clinton St.  
Indio, Ca 92201

Service Notification: 4008686 Contact Name: Brad Donais

Service Order: 60065759 Phone Number: 760.776.6132



Project Manager: Mr. Carlos Partida  
Project Estimator: Mr. Miguel Ruiz

2. REQUIRED MATERIAL AND WORK

The developer shall be required to install and furnish, but not limited to, the following:

- a. Trenching and excavating
- b. Pre-cast substructures and surface structures
- c. Retention structures
- d. Conduit, conduit fittings and sealing materials
- e. Conduit encasement
- f. Copper weld ground rods 5/8"x 10'
- g. Guard posts
- h. Marking tape over conduit
- i. Pull ropes

3. WORKMANSHIP

All work shall follow the best modern practice both in the manufacture and the installation of underground facilities. All work shall be done by artisans skilled in their various trades.

4. CONCRETE

Transit or ready-mix concrete from approved plants shall be used for all concrete work, and it shall comply with A.S.T.M. Specification C94-64, Standard Specifications for Ready-Mixed Concrete. Concrete mixed on the job will be acceptable if the above-mentioned specifications are complied with. The concrete in areas subject to vehicle traffic shall be 3/8 inch aggregate, not less than 3000 PSI. A sand-slurry mix of 2 sacks shall be used for areas not subject to vehicle traffic.

A concrete vibrator shall be used to assure complete encasement.

5. TRANSFORMER AND JUNCTION PADS

All transformer pads and junction pads shall be of reinforced concrete constructed to the dimensions shown on the drawings.

Each pad shall be placed at the required elevation with proper compaction, base material and leveled.

An opening in the pad shall be provided, if shown on the drawings, for the entrance and exit of conduits. The number and location of conduits shall be job specific.

6. SECONDARY PULL-BOXES

Secondary pull-boxes shall be installed as specified.


## CONTRACTOR NOTES

1. INSTALLATION CONTRACTOR SHALL OBTAIN AND BE RESPONSIBLE FOR ALL REQUIRED AND/OR NECESSARY PERMITS AND FEES THAT MAY BE IMPOSED BY CITY, COUNTY, OR STATE AGENCIES.
2. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO ESTABLISH ALL GRADES (ROUGH AND FINAL), BENCH MARKS, PROPERTY CORNERS, TIES, FENCE LINES, WALLS, PROPERTY LINES OR OTHER FIELD REFERENCES AS REQUIRED TO INSTALL AND VERIFY THE INSTALLATION AND LOCATION OF POWER FACILITIES.
3. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO ESTABLISH THE LOCATION AND DEPTH OF ALL EXISTING POWER SYSTEM FACILITIES AND FOREIGN SUBSTRUCTURES WITHIN THE WORK AREA, THE CONTRACTOR SHALL ALSO MAKE THE USA DIG ALERT AND KEEP THE ONE CALL TICKET UP TO DATE.
4. THE INSTALLATION CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR RESTORING TO IT'S FORMER CONDITION, AS NEARLY AS POSSIBLE, ALL EXCAVATED AREAS OF THIS WORK AND COMPACT ALL BACKFILLS TO NOT LESS THAN 90%. BACKFILLS AT STREET CROSSINGS ABOVE CONCRETE ENCASEMENTS, SHALL BE NOT LESS THAN A 2 SACK SAND SLURRY FROM TOP OF CONCRETE ENCASEMENT TO STREET SUB-GRADE. CONCRETE ENCASEMENT OF CONDUITS AT STREET CROSSINGS SHALL BE 3000 PSI STRENGTH. CONCRETE FOR ENCASEMENT OF POWER DUCTS FOR ALL OTHER LOCATIONS SHALL NOT BE LESS THAN 3 SACKS- 3/8" AGGREGATE (PEA GRAVEL) MIX.
5. THE TERM ENCASEMENT AS USED HERE IN, SHALL MEAN A 3" ENVELOPE AROUND ALL SIDES OF ONE OR MORE DUCTS. DUCT SPACERS SHALL BE REQUIRED BETWEEN CONDUITS AT NOT MORE THAN 6 FOOT INTERVALS.
6. ALL ENCASEMENT OF POWER DUCTS WILL REQUIRE AN ON SITE INSPECTOR AT THE TIME OF ENCASEMENT (SEE NOTES 7 & 8 BELOW).
7. THE INSTALLATION CONTRACTOR SHALL MANDREL ALL CONDUIT RUNS TO AND INCLUDING SERVICE DUCT, I.I.D. TO PROVIDE THE MANDREL AND INSPECTOR. (INSPECTION SCHEDULES ARE SUBJECT TO A MINIMUM 48 HOUR ADVANCE NOTICE AND ARE BY APPOINTMENT ONLY- LA QUINTA (760) 398-5854; IMPERIAL (760) 482-3300.)
8. ALL I.I.D. POWER AND/OR COMMUNICATION SYSTEM INSTALLATIONS IN JOINT TRENCH INCLUDING BUT NOT LIMITED TO; CONDUITS, VAULTS, PULL BOXES, TRANSFORMER PADS, SERVICE BOXES, METER PEDESTALS, SERVICE BOXES, ETC., WILL REQUIRE INSTALLATION INSPECTION BY I.I.D.
9. CONDUIT SHALL BE:  
PVC HEAVY WALL SCH. 40 FOR BELOW GROUND INSTALLATION  
AND SCH 80 FOR ABOVE GROUND INSTALLATION.

CONDUIT INDEX							
CONDUIT DIAMETER	STRAIGHT	SWEEPS	POLE RISER SWEEP	EQUIP. RISER SWEEP	TRANS. PADS	SECONDARY BOXES	METER PANELS
1" TO 3"	SCH. 40	SCH. 40	SCH. 80	SCH. 40	SCH. 40	SCH. 40	SCH. 40
4" TO 6"	SCH. 40	SCH. 40	SCH. 80	SCH. 40	SCH. 40	SCH. 40	SCH. 40

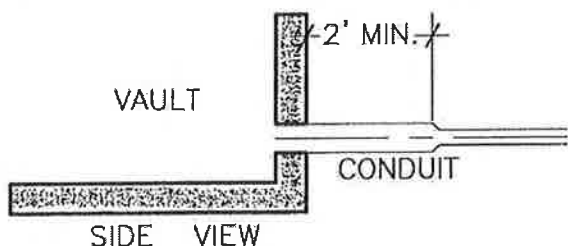
CSP/NOTIFICATION # 4008686  
 SERVICE ORDER # 60065759  
 SHEET 5 OF 23

SAP No. \_\_\_\_\_

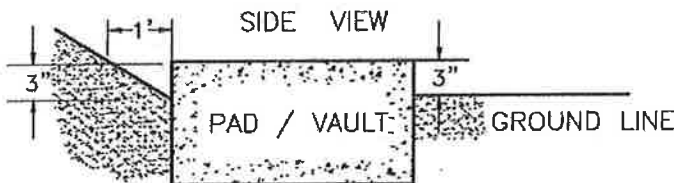
	IID UNDERGROUND DISTRIBUTION STANDARDS				
	CONTRACTORS NOTES				
	C. KING/R. MACKNICKI <small>APPROVED</small>	M. GAPPINGER <small>CHAIRMAN/STANDARDS</small>	03-16-07 <small>DATE</small>	REV 04 <small>REV. No.</small>	N.T.S. <small>SCALE</small>



18. THE CONTRACTOR IS REQUIRED TO PROVIDE, AND INSTALL, A MINIMUM OF TWO (2) COPPERWELD GROUND RODS, 5/8" BY TEN FEET IN LENGTH, AT EACH PRIMARY PULL BOX, MANHOLE, VAULT, AND RISER POLE. A MINIMUM OF TWO (2) GROUND RODS, 5/8" BY TEN FEET IN LENGTH WILL BE REQUIRED AND INSTALLED BY THE CONTRACTOR AT EACH TRANSFORMER PAD TO COMPLY WITH GENERAL ORDER 128, RULE 21.2, A.
19. CONTRACTOR IS RESPONSIBLE FOR PERMANENT AND WATERPROOF MARKINGS ON ALL INTERIOR VAULT KNOCKOUTS, ANY AND ALL CONDUITS, CONDUIT RUNS, AND STUB OUTS, WITH THE CONDUIT NUMBER CORRESPONDING TO THE NUMBER SHOWN ON THE PLANS.
20. SINGLE PHASE TRANSFORMER PADS INSTALLED ADJACENT TO ROADS SHALL HAVE THE PRIMARY CONDUITS INSTALLED TOWARD THE ROAD, SECONDARY CONDUITS INSTALLED AWAY FROM THE ROAD.
21. CONTRACTOR SHALL SEAL OR GROUT AROUND SEAMS, LID SECTIONS, AND DUCTS ENTERING VAULTS AND PULLBOXES TO PREVENT SOIL AND WATER ENTERING AT JOINTS OR OPENINGS.
22. WHERE THE EXTERNAL DIAMETER OF THE CONDUIT IS SMALLER THAN THE DIAMETER OF THE OPENING IN THE VAULT WALL, THE REDUCTION IN CONDUIT DIAMETER SHALL TAKE PLACE A MINIMUM OF TWO FEET (2') THE EXTERNAL WALL OF THE VAULT.



23. CONTRACTOR/DEVELOPER SHALL KEEP ALL DEBRIS AWAY FROM I.I.D.'S TRANSFORMER PADS, PRIMARY VAULTS, PRIMARY PULL BOXES & SECONDARY PULL BOXES TO GIVE I.I.D. PERSONNEL ACCESS DURING DURATION OF THE PROJECT.
24. TRANSFORMER PADS, PULL BOXES, MANHOLES, VAULTS, AND SWITCH PAD INSTALLATIONS, SHALL BE INSTALLED 3" ABOVE FINAL GRADE (WHERE NOT INSTALLED IN SIDEWALKS) AND FLUSH WITH FINAL SIDEWALK FOR THOSE INSTALLATIONS. IN AREAS WITH SLOPING CONTOURS GREATER THAN 1/4" TO THE FOOT, THE TOP EDGE SHALL BE SET AS SHOWN BELOW HIGHEST POINT OF SLOPE. (IN NO CASE SHALL THERE BE MORE THAN 6" OF SLOPE IN 6 FEET OF HORIZONTAL MEASUREMENT.) SEE ALSO NOTE #27.
25. SLOPE ELEVATIONS GREATER THAN THOSE DESCRIBED IN DETAIL BELOW, MAY REQUIRE RETAINING WALLS ON THREE SIDES, PER I.I.D. SAFETY AND ELECTRICAL CLEARANCE REQUIREMENTS. (3" HEIGHT PER ONE LINEAR FOOT REQUIRE RETAINING WALL.)



CSP/NOTIFICATION # 4008686  
 SERVICE ORDER # C00065759  
 SHEET 7 OF 23




















SAP No. \_\_\_\_\_





IID UNDERGROUND DISTRIBUTION STANDARDS











CONTRACTORS NOTES

C. KING/R. MACKNICKI	M. GAPPINGER	08-08-08	REV 04	N.T.S.
APPROVED	CHAIRMAN/STANDARDS	DATE	REV. No.	SCALE

-  PROPOSED SWITCH ENCLOSURE (VAULT)
-  EXISTING SWITCH ENCLOSURE (VAULT)
-  PROPOSED SECTER PAD
-  EXISTING SECTER PAD
-  PROPOSED 1 $\phi$  TRANSFORMER PAD
-  EXISTING 1 $\phi$  TRANSFORMER PAD
-  PROPOSED 3 $\phi$  TRANSFORMER PAD
-  EXISTING 3 $\phi$  TRANSFORMER PAD
-  PROPOSED PRIMARY PULLBOX
-  PROPOSED VAULT ENCLOSURE
-  EXISTING PRIMARY PULLBOX
-  EXISTING VAULT ENCLOSURE
-  PROPOSED SECONDARY PULLBOX
-  EXISTING SECONDARY PULLBOX
-  PROPOSED POWER POLE
-  EXISTING POWER POLE
-  PROPOSED POWER POLE AND RISER
-  EXISTING POWER POLE WITH PROPOSED RISER
-  EXISTING POWER POLE AND RISER

-  PROPOSED METER BOX
-  EXISTING METER BOX
-  PROPOSED DOUBLE RISER POLE
-  EXISTING DOUBLE RISER POLE

-  PROPOSED PRIMARY CONDUIT
-  PROPOSED SECONDARY CONDUIT
-  PROPOSED SERVICE CONDUIT
-  EXISTING U.G. POWER LINE
-  INDICATES AREA TO BE CONCRETE ENCASED


-  STUB-OUT WITH CAP
-  INDICATES TRENCH DETAILS
-  PROPOSED BARRIER POST
- R-R DENOTES RISER TO RISER
- R-W DENOTES RISER TO WALL
- R-ES DENOTES RISER TO END OF STUB (WITH CAP)
- W-R DENOTES WALL TO RISER
- W-W DENOTES WALL TO WALL
- W-ES DENOTES WALL TO END OF STUB (WITH CAP)
- ES-R DENOTES (CONNECT TO) END OF STUB TO RISER
- ES-W DENOTES (CONNECT TO) END OF STUB TO WALL

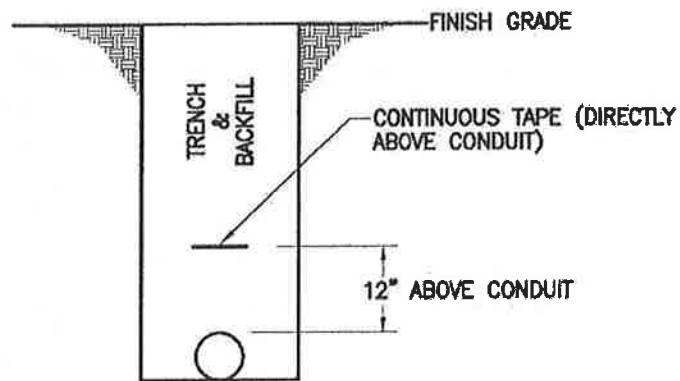


INDICATES LOCATION AND QUANTITY OF PRIMARY PULLBOX TERMINATOR HOLES(KNOCKOUTS) THAT ARE BEING USED.

CSP/NOTIFICATION # 4008684  
 SERVICE ORDER # 60005759  
 SHEET 9 OF 23

SAP No. \_\_\_\_\_

<b>IID UNDERGROUND DISTRIBUTION STANDARDS</b>					
<b>UNDERGROUND LEGEND</b>					
N. T. S.	REV 03	08-08-08	M. GAPPINGER	C. KING/R. MACKNICKI	
SCALE	REV. No.	DATE	CHAIRMAN/STANDARDS	APPROVED	




TYPICAL TRENCH DETAIL  
W/LINEGUARD III TAPE OR EQUAL

NOTE: INSTALL 2" LINE GUARD III TAPE (RED). "CAUTION: BURIED ELECTRIC LINE BELOW".  
TAPE TO BE FURNISHED & INSTALLED BY CONTRACTOR.

CSP/NOTIFICATION # 4008086  
SERVICE ORDER # 40065759  
SHEET 11 OF 23

SAP No. \_\_\_\_\_

	IID UNDERGROUND DISTRIBUTION STANDARDS				
	<b>LINE GUARD III TAPE</b>				
	C. KING/R. MACKNICKI	M. GAPPINGER	06-09-06	REV 03	N.T.S.
APPROVED	CHAIRMAN/STANDARDS	DATE	REV. No.	SCALE	

CONSTRUCTION NOTES:

1. A PRECAST CONCRETE PAD SHOULD BE USED.
2. APPROVED MANUFACTURERS AND STRUCTURES.

MANUFACTURER	PHONE No.	STRUCTURE No.
JENSEN PRECAST	1-800-257-6100	PD4872-T6-25
SAN DIEGO	(619)449-6810	4872TP-IID
UTILITY VAULT	1-800-626-3860	IID-4872-06TP

3. CONTRACTOR TO PROVIDE TWO 5/8"x10' COPPERWELD GROUND RODS PER PAD (INSTALLATION BY CONTRACTOR.)
4. SIZE AND NUMBER OF CONDUITS IN EACH PAD TO BE AS SHOWN ON CONDUIT LAYOUT.
5. ANCHORAGE TO BE SET BY I.I.D. WHEN TRANSFORMER IS INSTALLED.
6. CONTRACTOR SHALL PROVIDE & INSTALL ROADBASE MATERIAL UNDERNEATH TRANSFORMER PAD, AND COMPACT ALL ROADBASE UNDERNEATH TRANSFORMER PAD TO A MINIMUM COMPACTION OF 90% AND A MAXIMUM OF 95%. SEE STANDARD 135.
7. CONDUITS TO TERMINATE 1" ABOVE TOP OF TRANSFORMER PAD.
8. PAD UTILIZED IN LA QUINTA DIVISION.

CSP/NOTIFICATION # 4008686  
 SERVICE ORDER # 60065759  
 SHEET 13 OF 23

SAP No. \_\_\_\_\_

IID UNDERGROUND DISTRIBUTION STANDARDS <b>PRECAST CONCRETE PAD FOR                  SINGLE-PHASE TRANSFORMER                  15KVA TO 167KVA LA QUINTA</b>					
N.T.S.	REV 0	07-09-07	M. GAPPINGER	C. KING/ R. MACKNICKI	
SCALE	REV. No.	DATE	CHAIRMAN/STANDARDS	APPROVED	

CONSTRUCTION NOTES:

1. APPROVED MANUFACTURERS AND STRUCTURES:

MANUFACTURER	PHONE No.	STRUCTURE No.
JENSEN PRECAST	1-800-257-6100	K466-FH72-25P
SAN DIEGO PRECAST	(619)449-6810	3315 PARKWAY MANHOLE
UTILITY VAULT	1-800-626-3860	IID 46684 MMH

2. FINISHED GRADES MUST BE ESTABLISHED PRIOR TO PULLBOX INSTALLATION. BOTTOM SECTION OF PULLBOX MUST BE LEVEL PRIOR TO ADDITION OF GRADE RINGS. SET THE BOTTOM SECTION AS LEVEL AS POSSIBLE TO ENSURE ANY WATER IN THE HANDHOLE WILL DRAIN TOWARDS THE SUMP.
3. CONDUIT SHALL BE TERMINATED IN END WALL KNOCKOUTS BY USE OF CAST IN PLACE TERMINATORS.
4. CLEAN JOINT SURFACES WITH A BRUSH AND ENSURE JOINTS ARE DRY. FIRMLY PRESS JOINT SEALING COMPOUND ONTO SURFACE END-TO-END AROUND THE ENTIRE JOINT. ALLOW 1" OVERLAP WHEN ABUTTING. SEALING COMPOUND OR GROUT SHALL BE REQUIRED BETWEEN LAST GRADE RING AND TOP COVER SECTION PER I.I.D. INSPECTOR.
5. PROVIDE THREE POLYMER COVER AS REQUIRED PER I.I.D. DRAWINGS.
6. COMPACT ALL BACKFILLS TO A MIN. OF 90%.
7. PROVIDE 2-5/8"x10' COPPERWELD GROUND RODS PER PULLBOX. OPPOSITE CORNERS IN 3/4" HOLES.
8. ALL TOP COVERS SHALL BE MARKED WITH DISTRICT'S LOGO, "I.I.D."
9. SEE CONDUIT LAYOUT FOR SIZE AND NUMBER OF CONDUITS REQUIRED IN EACH PULLBOX. CONDUITS TERMINATION INSIDE WALL KNOCKOUTS SHALL REQUIRE THE USE OF END-BELLS.
10. LIFTING ANCHORS ARE NOT TO BE USED FOR CABLE PULLING.
11. 6" MINIMUM 3/4" PEA GRAVEL BASE REQUIRED UNDER BASE ENCLOSURE.

ENGINEERING NOTES:

A. THE EXACT HANDHOLE DESIGN AND DIMENSION VARY BY MANUFACTURER. THE DIMENSIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY.


B. THE EXACT LOCATION AND ORIENTATION OF THE HANDHOLE SHALL BE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

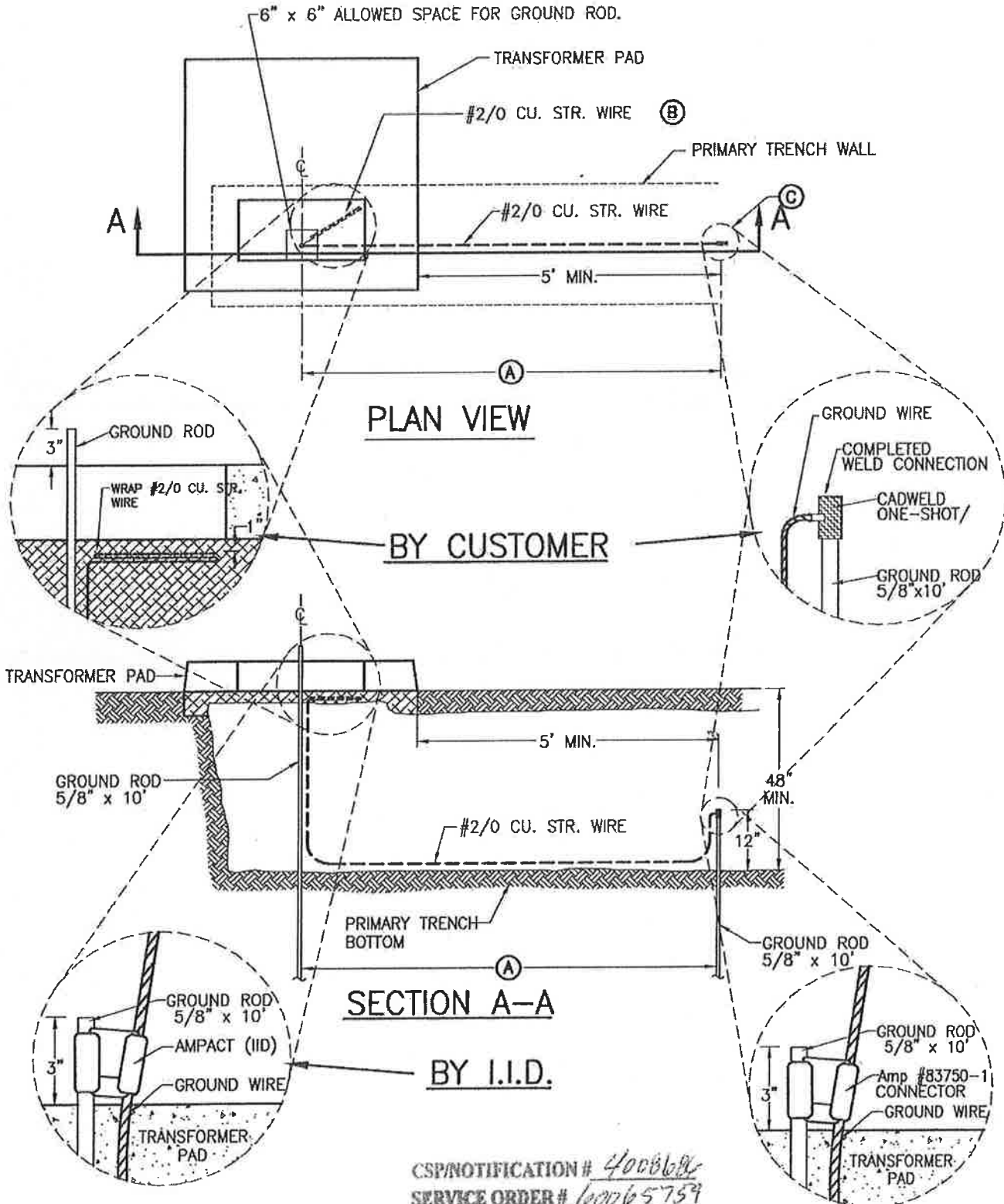
BILL OF MATERIAL

ITEM	QTY	DESCRIPTION
①	1	FRAME, PARKWAY, 12"
②	3	POLYMER COVER, PARKWAY, 51-1/2" x 26-3/4"
③	1	ENCLOSURE, 90" BASE
④	AS REQD.	SEALANT, PLASTIC-MASTIC
⑤	12	BOLT, S.S. PENTAHEAD, 1/2" x 2-1/2"
⑥	12	WASHER, 1/2" FLAT ROUND, STAINLESS STEEL
⑦	AS REQD.	LUBRICANT EZ-1
⑧	1	EXTENSION SECTION 12" <b>(LEVELING ONLY)</b>
⑨	AS REQD.	PEA GRAVEL, 3/8"


CSP/NOTIFICATION # 4008686  
 SERVICE ORDER # 60065759  
 SHEET 15 OF 23

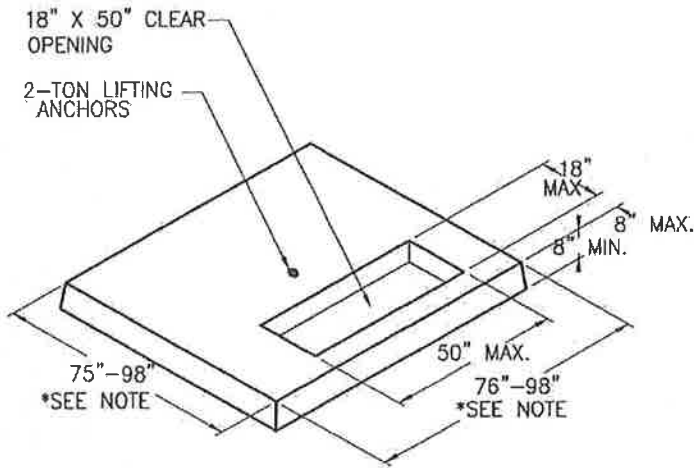
SAP No. \_\_\_\_\_

IID UNDERGROUND DISTRIBUTION STANDARDS <b>SUBSTRUCTURES</b> <b>"MEDIUM" HANDHOLE EQUIPMENT ENCLOSURE</b> <b>(INSIDE DIMENSIONS - 4'x6'-6" x 5')</b>				
N.T.S.	REV 04	08-09-06	M. GAPPINGER	
SCALE	REV. No.	DATE	CHAIRMAN/STANDARDS	
			C. KING/R. MACKNICKI	
			APPROVED	

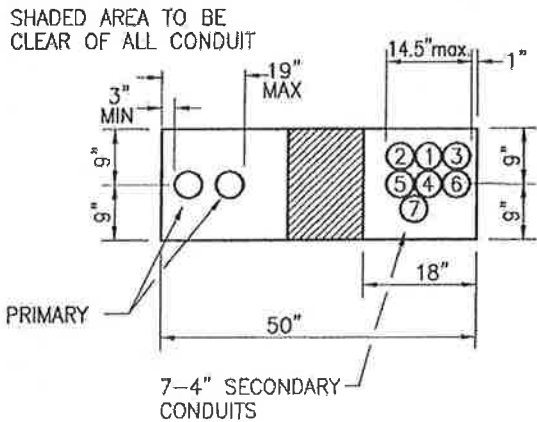
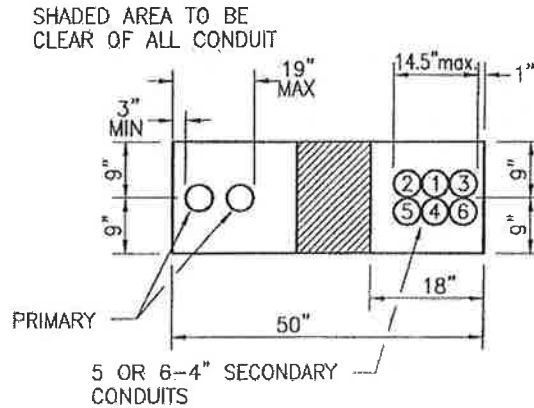
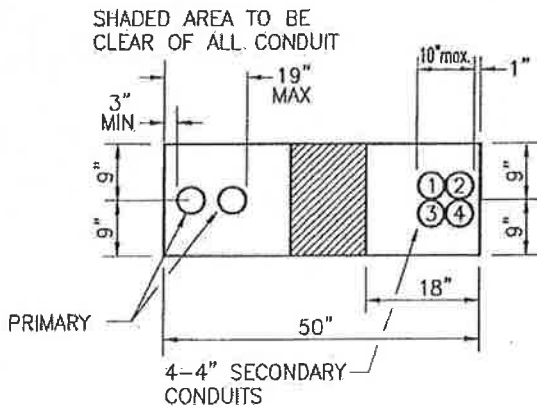
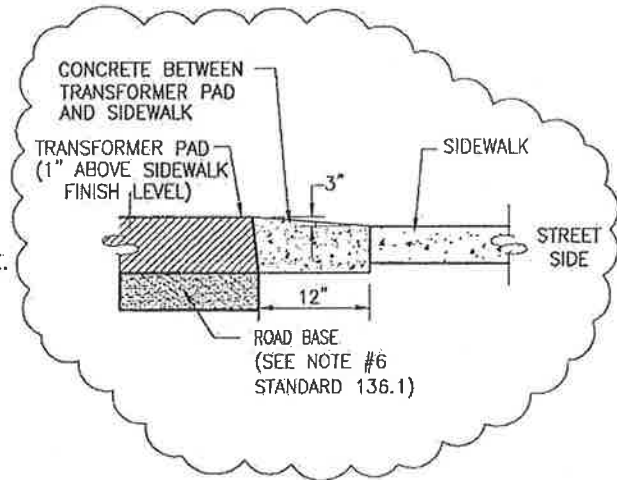


SAP No. \_\_\_\_\_

	<b>IID UNDERGROUND DISTRIBUTION STANDARDS</b> <b>TRENCH GROUND WIRE FOR</b> <b>SINGLE PHASE TRANSFORMERS PAD</b> <b>(BY CUSTOMER)</b>				
	C. KING/R. MACKNICKI APPROVED	M. GAPPINGER CHAIRMAN/STANDARDS	10-10-08 DATE	REV 06 REV. No.	N.T.S. SCALE



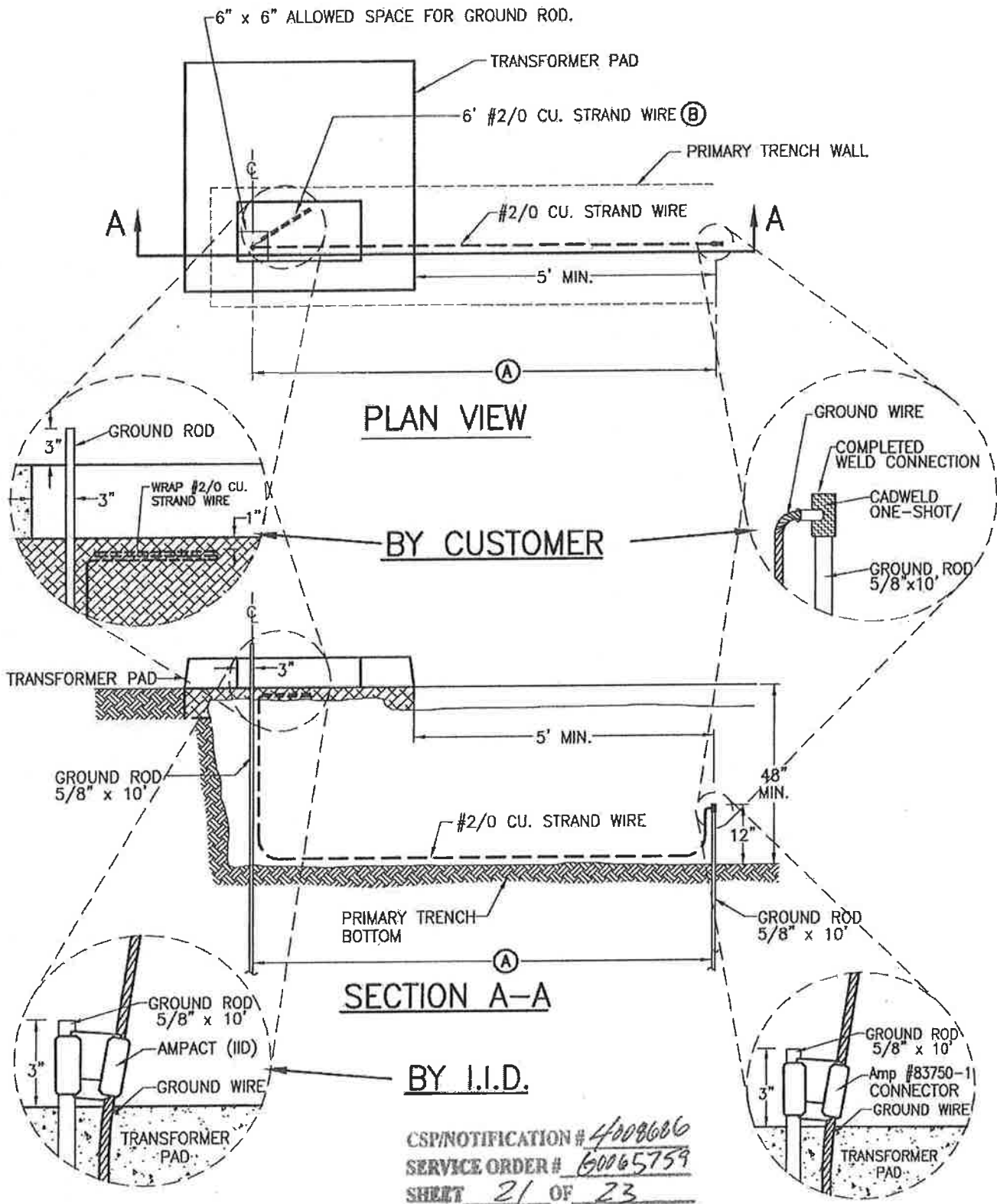
\*NOTE: EXACT MEASUREMENT IS DEPENDENT UPON MANUFACTURER SPECIFICATIONS. SEE STANDARD 136.1, CONSTRUCTION NOTE 2. APPROVED MANUFACTURERS AND STRUCTURERS.



CSP/NOTIFICATION # 4009686  
 SERVICE ORDER # 60065759  
 SHEET 19 OF 23

SAP No. \_\_\_\_\_

	IID UNDERGROUND DISTRIBUTION STANDARDS <b>PRECAST CONCRETE PAD DETAIL FOR                  THREE-PHASE TRANSFORMERS                  45 KVA TO 500 KVA</b>				
	C. KING/R. MACKNICKI APPROVED	M. GAPPINGER CHAIRMAN/STANDARDS	07-30-07 DATE	REV 06 REV. No.	N.T.S. SCALE



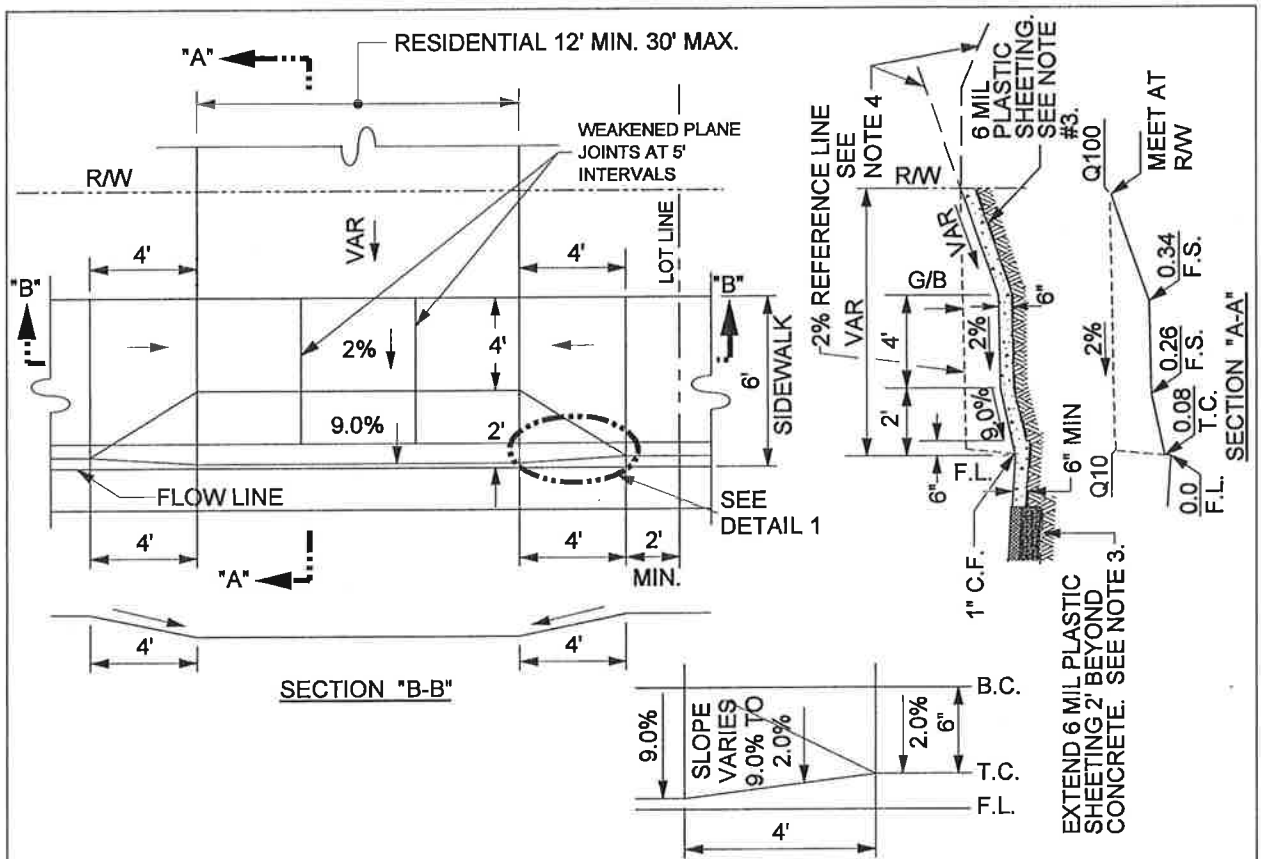
SAP No. \_\_\_\_\_

	IID UNDERGROUND DISTRIBUTION STANDARDS <b>TRENCH GROUND WIRE FOR                  THREE PHASE TRANSFORMERS                  (BY CUSTOMER)</b>				
	C. KING/R. MACKNICKI APPROVED	M. GAPPINGER CHAIRMAN/STANDARDS	10-10-06 DATE	REV 06 REV. No.	N.T.S. SCALE



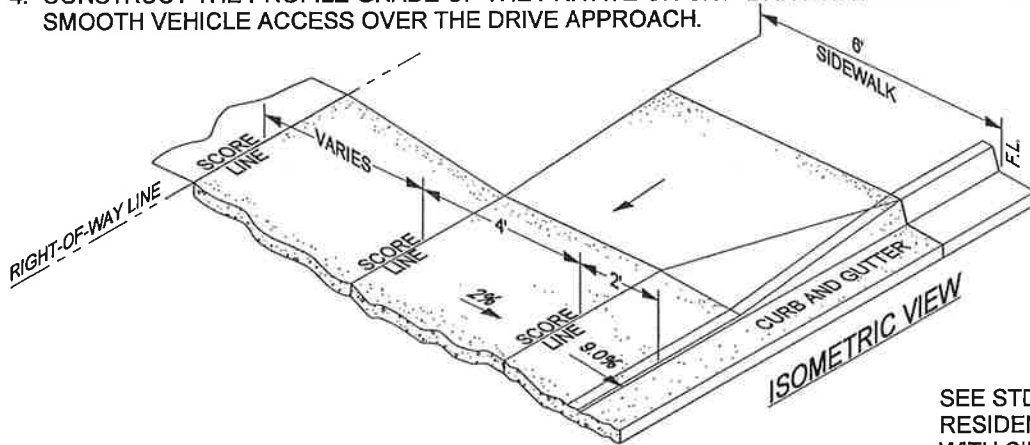






**NOTES:**

1. ALL CONSTRUCTION SHALL BE CLASS "3" CONCRETE.
2. 20' OF FULL-HEIGHT CURB REQUIRED BETWEEN DRIVEWAYS WITHIN ANY ONE PROPERTY FRONTAGE.
3. USE 6 MIL PLASTIC SHEETING WHEN ABUTTING SOIL HAS A HIGH SULFATE CONTENT, SPECIAL CONSIDERATIONS ARE REQUIRED. SEE SPECIFICATIONS (SECTION 16.04).
4. CONSTRUCT THE PROFILE GRADE OF THE PRIVATE ON-SITE DRIVEWAY SO THAT IT PROVIDES SMOOTH VEHICLE ACCESS OVER THE DRIVE APPROACH.



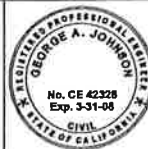
NOT TO SCALE

SEE STD NO. 213 FOR RESIDENTIAL DRIVEWAY WITH SIDEWALK AT RW

APPROVED BY:

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

DATE: 11/15/04

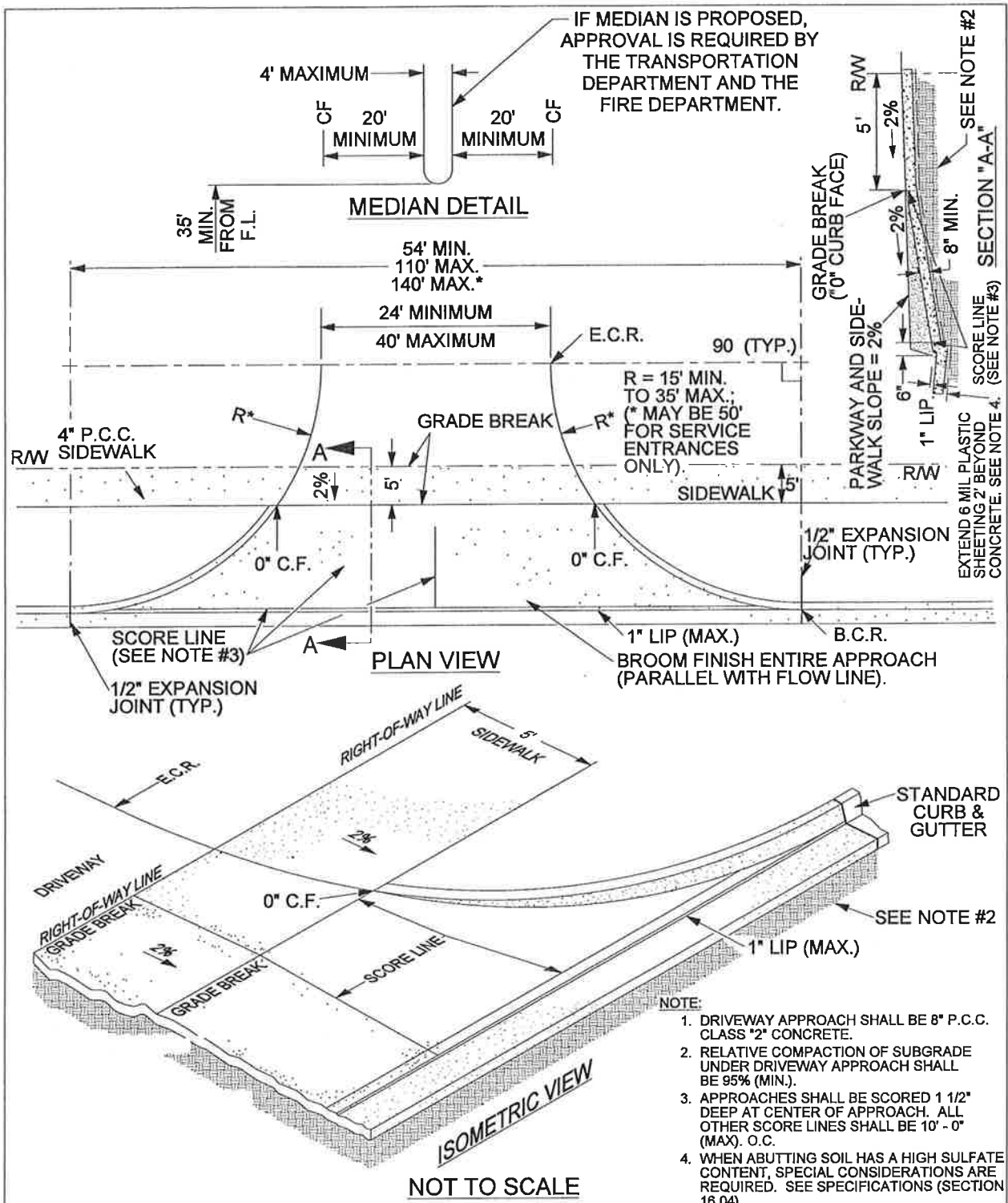


COUNTY OF RIVERSIDE

**RESIDENTIAL DRIVEWAY WITH SIDEWALK AT CURB**

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-71, 8-77	11-04	1			4			
5-80, 2-82		2			5			
2-90, 12-97		3			6			

STANDARD NO. 207



APPROVED BY:

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

DIRECTOR OF TRANSPORTATION  
GEORGE A. JOHNSON, RCE 42328

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

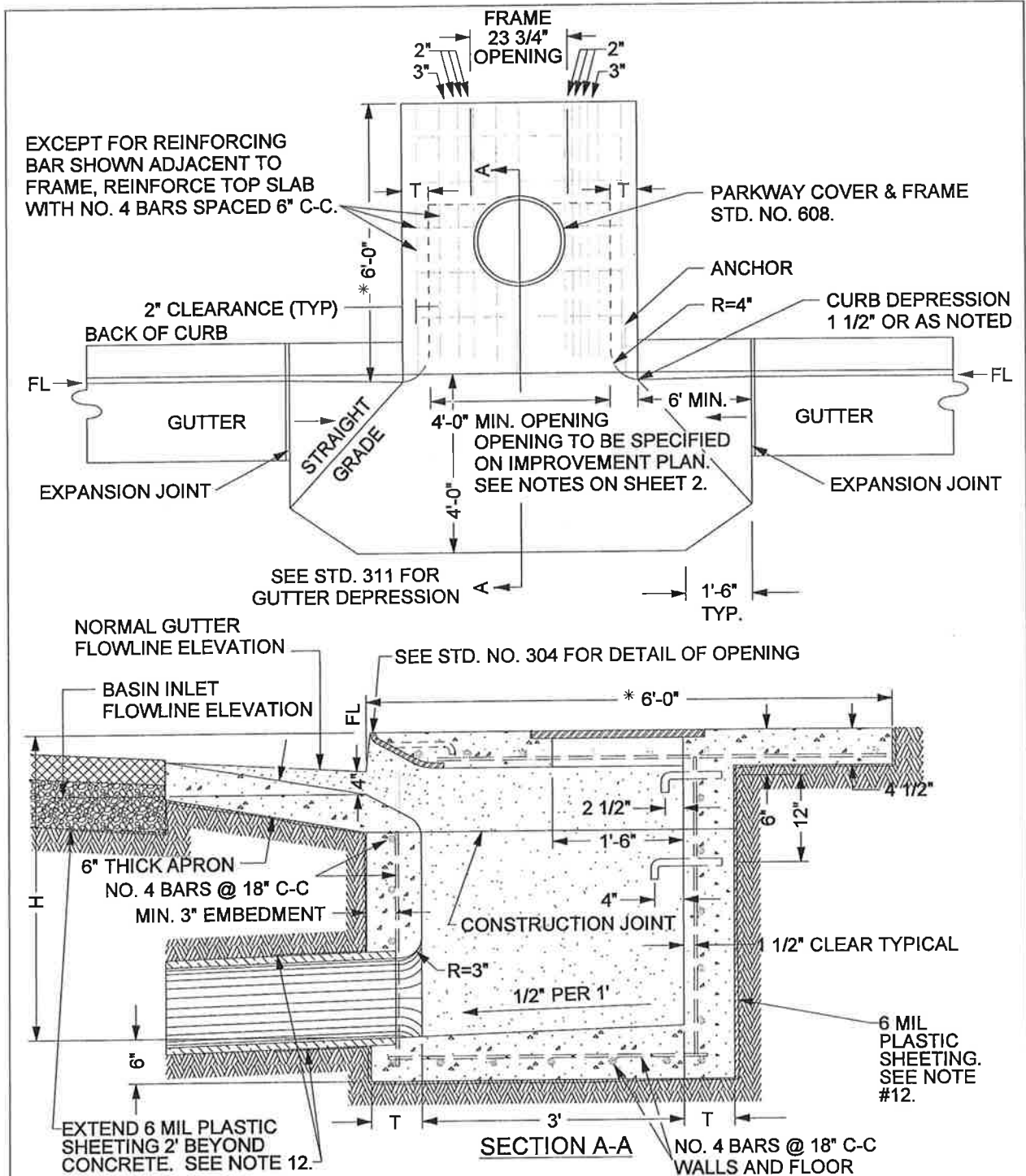


COUNTY OF RIVERSIDE

**COMMERCIAL DRIVEWAY  
(WITH SIDEWALK AT RW)**

STANDARD NO. 207A (2 OF 2)





CATCH BASIN SHALL BE CLASS "A" P.C.C.

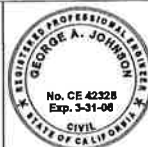
\*TOP OF CATCH BASIN TO BE POURED MONOLITHIC WITH SIDEWALK, 6 FT.

NOT TO SCALE

APPROVED BY:

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

DATE: 05/01/07

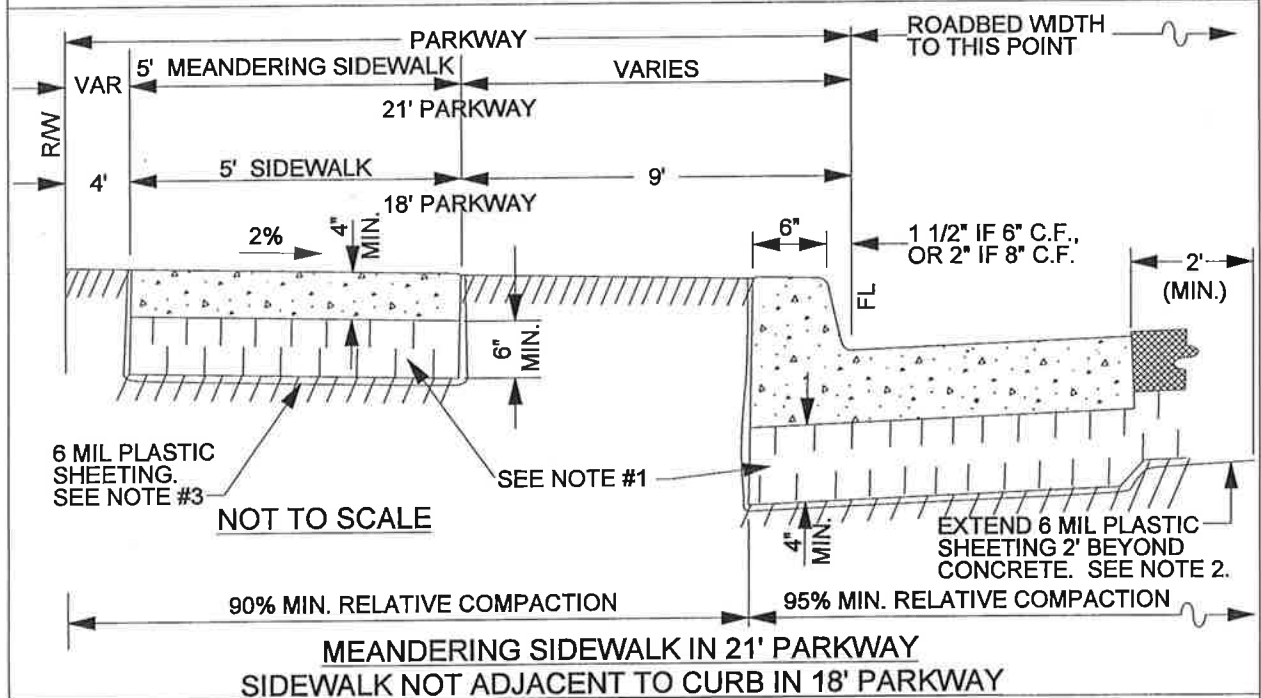
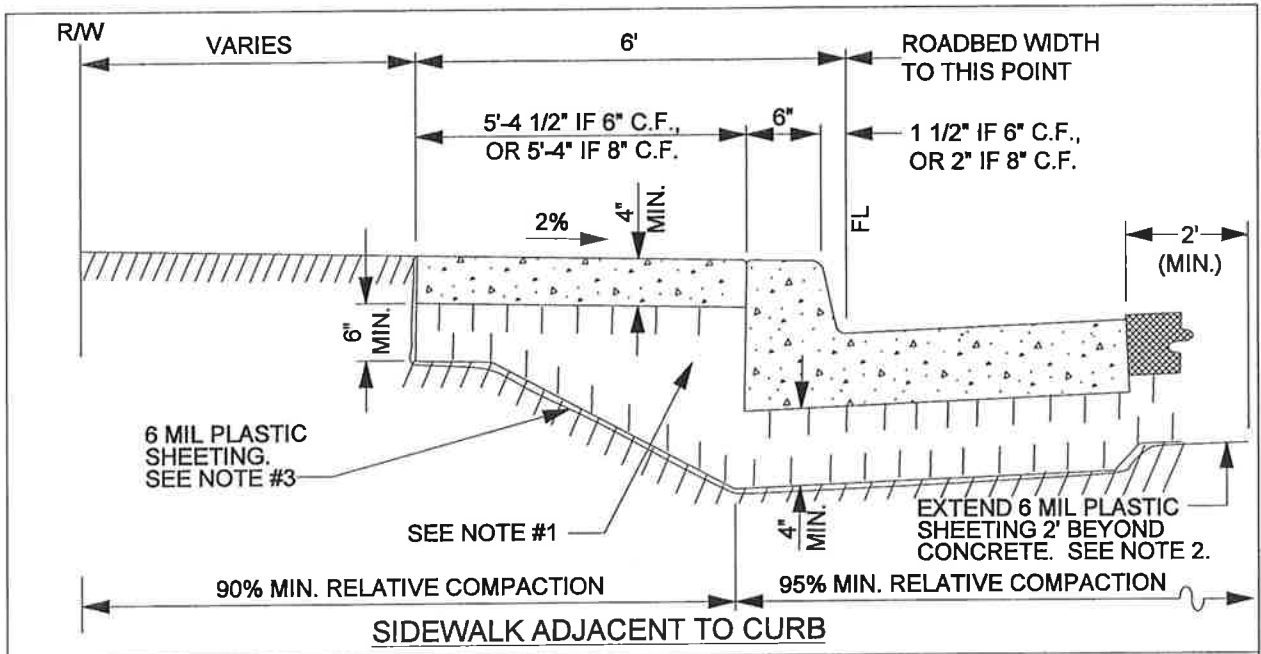


COUNTY OF RIVERSIDE

**CURB INLET  
 CATCH BASIN**

STANDARD NO. 300 (1 OF 2)

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



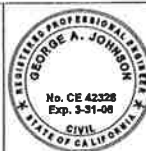
**NOTE:**

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

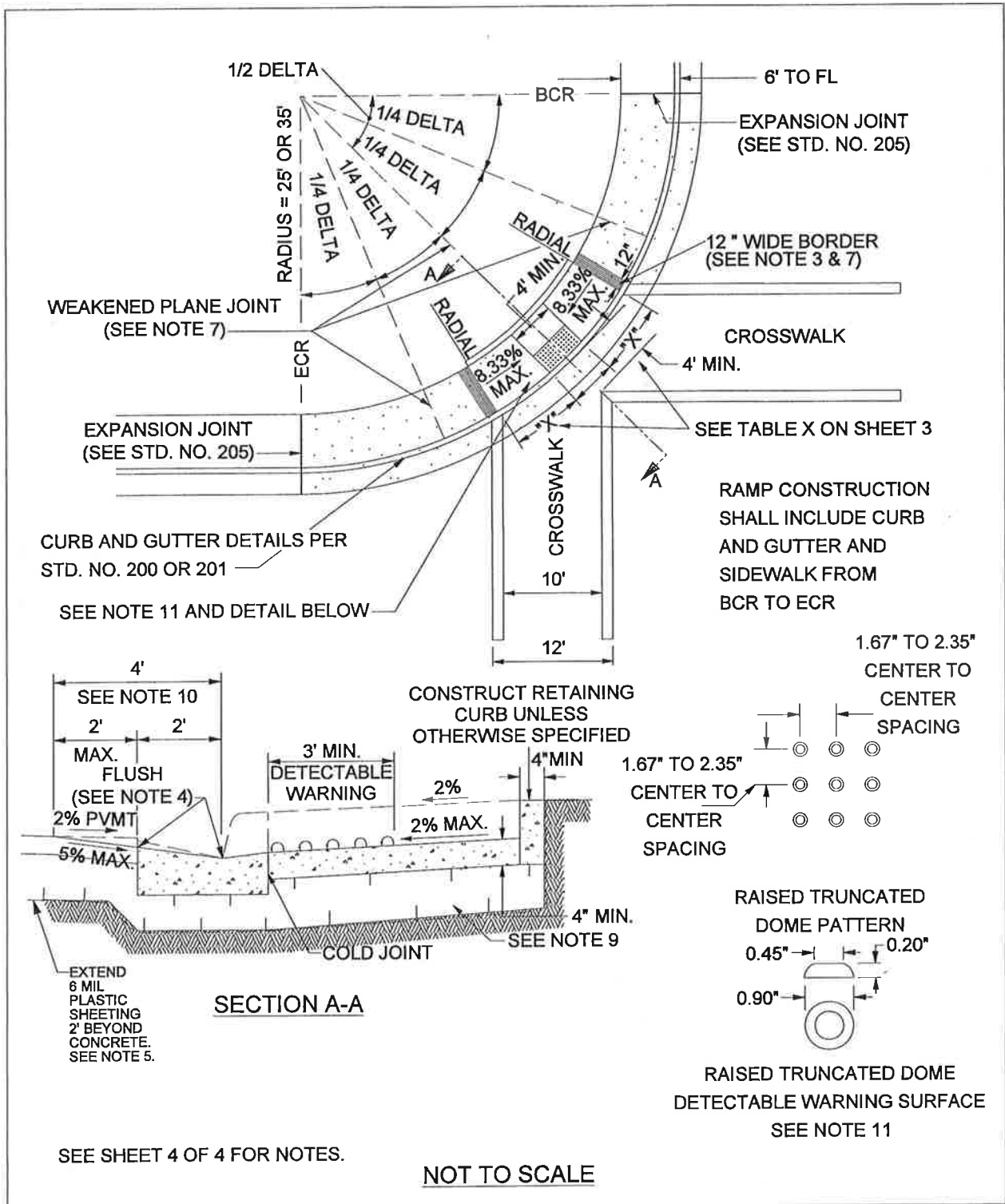


COUNTY OF RIVERSIDE

**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



SEE SHEET 4 OF 4 FOR NOTES.



NOT TO SCALE

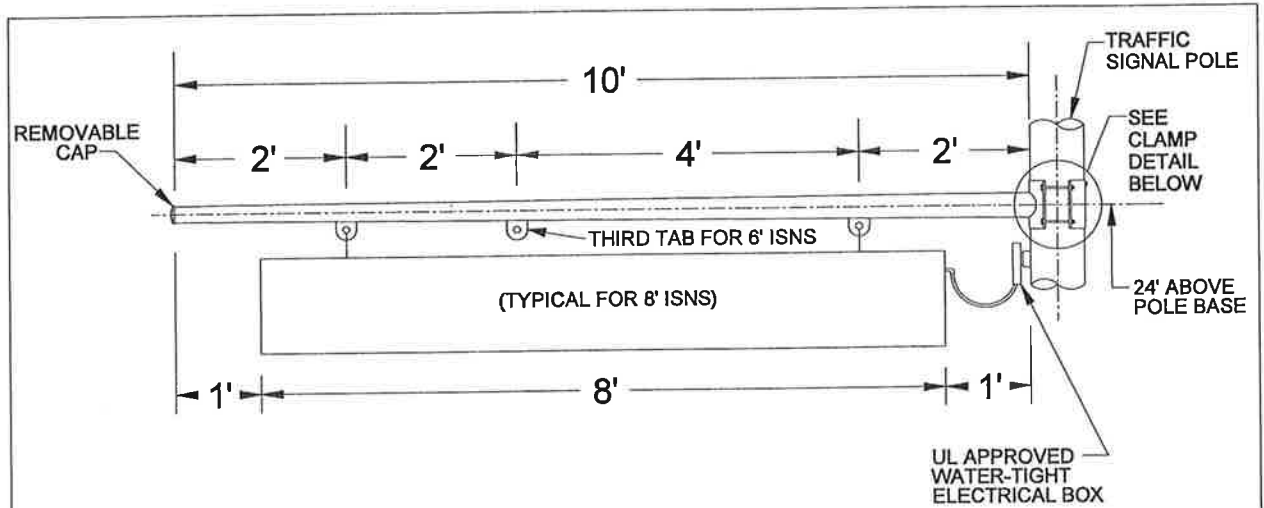
APPROVED BY:										COUNTY OF RIVERSIDE			
										DATE: 11/15/04			
DIRECTOR OF TRANSPORTATION GEORGE A. JOHNSON, RCE 42328										STANDARD NO. 403 (2 OF 4)			
REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE			12-97	
8-77, 5-80		11-04	1			4							
10-81, 6-82			2			5							
9-88, 2-90			3			6							



**CONSTRUCTION NOTES:**

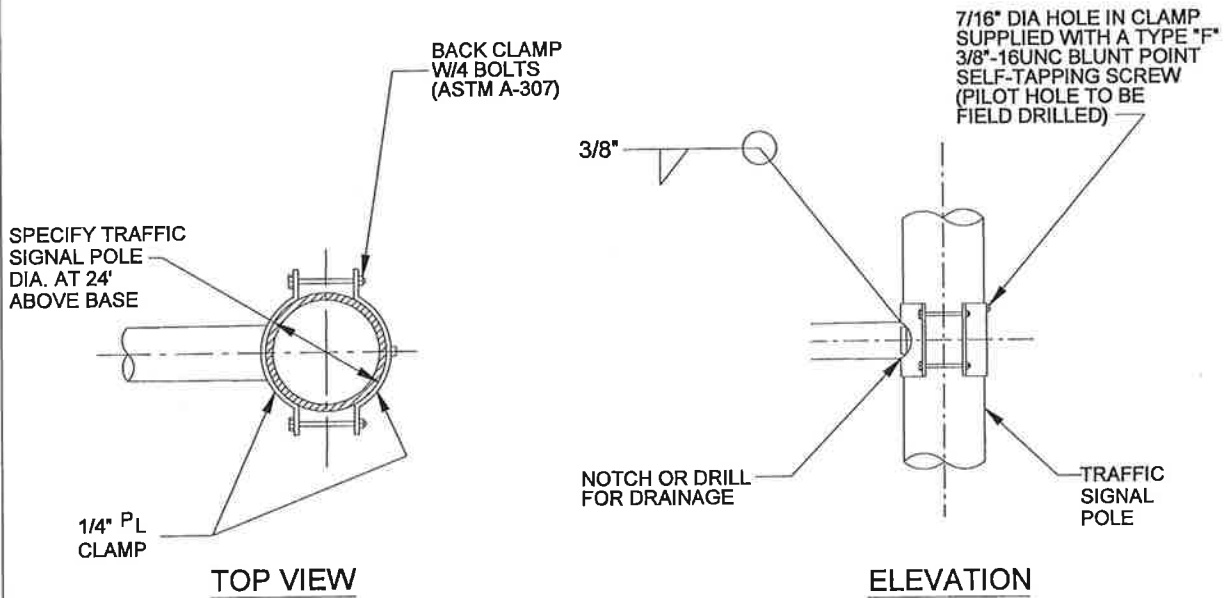
1. IF DISTANCE FROM CURB TO BACK OF SIDEWALK IS TOO SHORT TO ACCOMODATE RAMP AND 4' LANDING, THEN USE THE CASE "B" RAMP.
2. IF SIDEWALK IS LESS THAN 6' WIDE, THE FULL WIDTH OF THE SIDEWALK SHALL BE DEPRESSED AS SHOWN IN CASE B. MINIMUM SIDEWALK WIDTH IS 4' FROM BACK OF CURB.
3. THE RAMP SHALL HAVE A 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:										COUNTY OF RIVERSIDE				
 DATE: 11/15/04 DIRECTOR OF TRANSPORTATION GEORGE A. JOHNSON, RCE 42328										<b>CURB RAMP CONSTRUCTION NOTES</b>				
REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE	STANDARD NO. 403 (4 OF 4)				
8-77, 5-80	11-04	1				4				12-97				
10-81, 6-82		2				5								
9-88, 2-90		3				6								



## IISNS STRAIGHT ARM MOUNTING

NOT TO SCALE



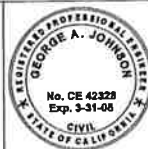
## CLAMP DETAIL

NOT TO SCALE

APPROVED BY:

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

DATE: 05/01/07

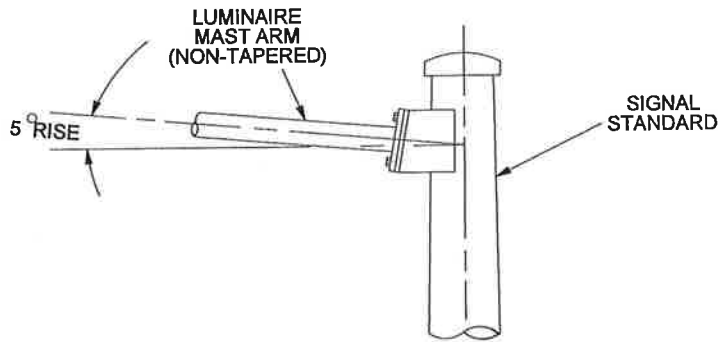


COUNTY OF RIVERSIDE

**TRAFFIC SIGNAL POLE  
 IISNS STRAIGHT ARM  
 MOUNTING DETAIL**

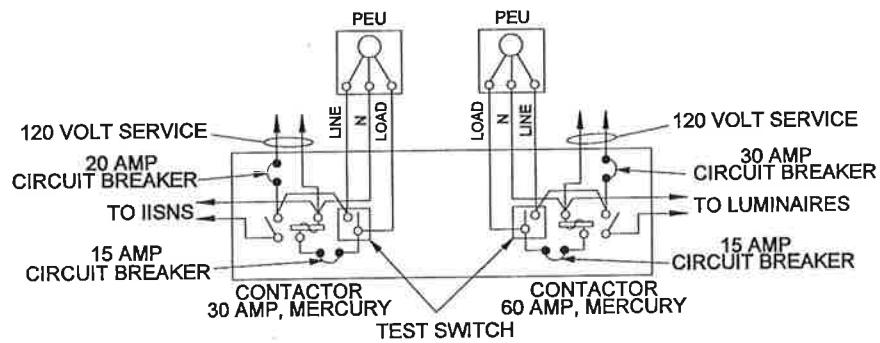
REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
	1				4			
	2				5			
	3				6			

STANDARD NO. 1200



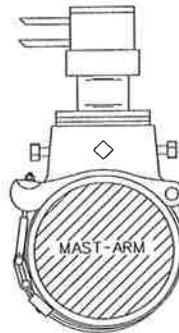
## STRAIGHT LUMINAIRE MAST ARM DETAIL

NOT TO SCALE



## DUAL PEC WIRING DIAGRAM

NOT TO SCALE



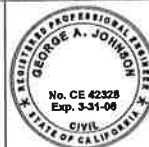
## MOUNTING CLAMP FOR OPTICAL DETECTOR

NOT TO SCALE

APPROVED BY:

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

DATE: 05/01/07



COUNTY OF RIVERSIDE

## TRAFFIC SIGNAL DETAIL SHEET

STANDARD NO. 1202

REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
		1				4			
		2				5			
		3				6			

## NOTES FOR JUNCTION STRUCTURE NO. 2

1. VALUES for A, B, C, D, E, F, G, L, Elevation R, and Elevation S shown on improvement plan.
2. PIPE shall be cradled in class A concrete extending longitudinally to points 1 ft. beyond the limits of  $LH = \frac{1}{2}$  outside diameter of pipe + 4" as a minimum. Cradle may be omitted on side opposite lateral inlet when constructed in connection with existing pipe storm drain.
3. A AND B BARS shall be carried to point not less than J distance from center line,  $J = \frac{7D}{12} + 6"$ .
4. RECTANGULAR OPENING in main line pipe shall be cut within these limits normal to pipe surface without damaging steel. Values for F, G, and L on improvement plan.
5. TRANSVERSE REINFORCEMENT in pipe shall be cut in center of opening and bent to uniform distance from top and bottom of junction structure.
6. STRUCTURAL CONCRETE shall be CLASS "A"
7. REINFORCING STEEL shall be round, deformed, straight bars,  $1\frac{1}{2}"$  clear from inside face of concrete unless otherwise shown.
8. STEEL SCHEDULE as shown.
9. MONOLITHIC ARCH: When Junction Structure No. 2 is specified with reinforced monolithic arch storm drain, value D shall refer to the clear span of the arch. Reinforcing steel shall be cut and bent into junction structure the same as for pipe. Concrete cradle under reinforced monolithic arch is not required.
10. FLOOR of structure shall be steel-troweled to springing line.

CITY OF RIV. STD. NO. 421  
 L.A.C.F.C.D. STD. NO. 2-D112  
 CITY OF L.A. STD. NO. B-1529



RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
APPROVED BY: <i>Warren D. Williams</i> CHIEF ENGINEER
DATE: April 5, 2004

JUNCTION STRUCTURE  
 NO. 2

STANDARD DRAWING NUMBER JS227  
 SHEET 2 OF 2

R.C.E. NO. 32336

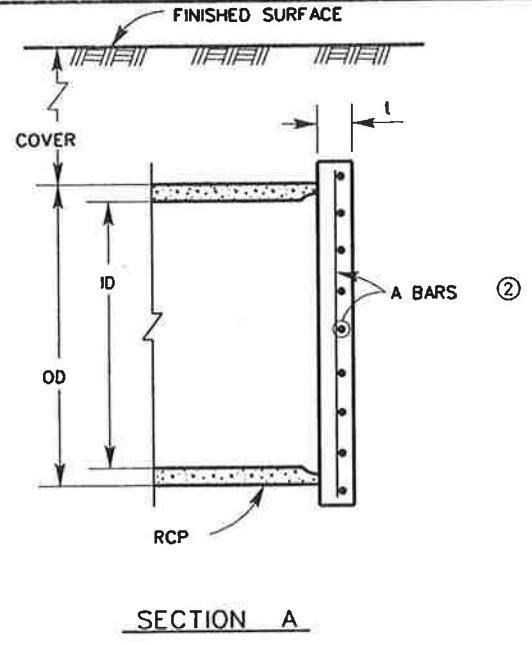
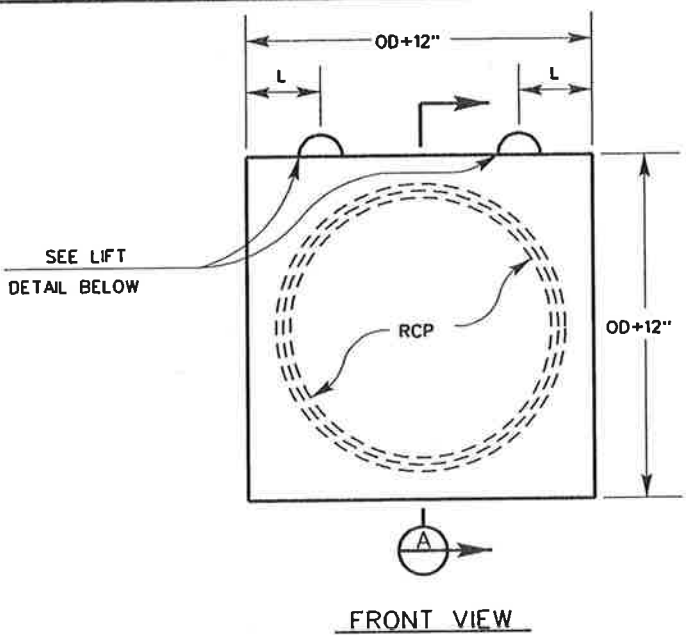
1. HEIGHT H shall be not less than 4'-0" but may be increased at option of Contractor provided that the value of M shall not be less than the minimum specified and that the reducer shall be used. For H (in Sec. C-C) See Note 4.
2. LENGTH L shall be 4' unless otherwise shown on improvement plan. L may be increased or location of manhole shifted to meet pipe ends, at the option of Contractor, except that any change in location of manhole must be approved by the Engineer.
3. SHAFT shall be constructed as per Sec. C-C and Detail N when depth M from street grade to top of box is less than 2'-10½" for paved streets or 3'-6" for unpaved street.
4. DEPTH P may be reduced to an absolute limit of 6 inches when larger values of P would reduce H (in Sec. C-C) to be 3'-6" or less.
5. T shall be 8" for values of H up to and including 8 ft. T shall be 10" for values of H over 8 ft.
6. Steps shall be ¾" round, galvanized steel and anchored not less than 4 inches in the walls of structures. Unless otherwise shown, steps shall be spaced 16" on center. The lowest step shall be not more than 2 feet above the invert.
7. REINFORCING STEEL shall be No. 4 and 1½" clear from inside face of concrete.
8. STATIONS refer to Plan & Profile sheets. Elevations at  $\epsilon$  and prolonged invert grade line. See Note 2 for shifting location.
9. RINGS, reducer, and pipe for access shaft shall be seated in cement mortar and neatly pointed or wiped inside shaft.
10. FLOOR of manhole shall be steel-troweled.
11. CONCRETE shall be Class "A".



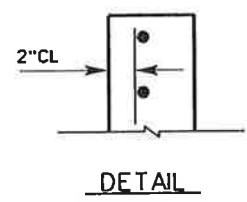
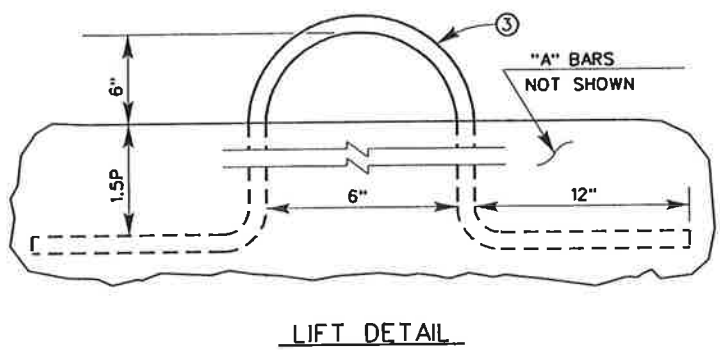
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	
APPROVED BY:	<i>Warren D. Williams</i>
CHEF ENGINEER	
DATE: April 5, 2004	R.C.E. NO. 32336

MANHOLE NO. 1

STANDARD DRAWING NUMBER MH251  
SHEET 2 OF 2



ID (IN)	MAX COVER (FT)	t (IN)	A BARS	L, P
48	5	4	4 @ 9	1'-6"
	10	4	4 @ 6	
	15	5	4 @ 6	
60	5	4	4 @ 6	1'-8"
	10	5	4 @ 6	
	15	5	5 @ 6	
66	5	5	4 @ 6	1'-10"
	10	5	5 @ 6	
	15	5	5 @ 6	
72	5	5	4 @ 6	2'-0"
	10	5	5 @ 6	
	15	5	6 @ 6	
78	5	5	5 @ 6	2'-2"
	10	5	6 @ 6	
	15	6	6 @ 6	
84	5	5	5 @ 6	2'-4"
	10	5	6 @ 6	
	15	6	6 @ 5	
90	5	5	6 @ 6	2'-5"
	10	6	6 @ 6	
	15	6	6 @ 5	
96	5	5	6 @ 6	2'-7"
	10	6	6 @ 5	
	15	6	7 @ 6	



- NOTES**
1. CONCRETE SHALL BE CLASS 'A'.
  2. ALL REINFORCING STEEL SHALL BE CENTERED IN BULKHEAD EXCEPT FOR PIPE DIAMETER GREATER THAN 96", VERTICAL "A" BARS SHALL BE PLACED AT 2" CLEAR FROM THE INSIDE FACE OF THE BULKHEAD. HORIZONTAL "A" BARS SHALL BE PLACED TOWARDS OUTSIDE FACE OF BULKHEAD PER DETAIL.
  3. LIFTS SHALL BE WOVEN STEEL CABLE WITH SAME MINIMUM DIAMETER (d) AS "A" BARS. WEAVE CABLE THROUGH HORIZONTAL "A" BARS. COAT EXPOSED PORTION OF CABLE LIFTS WITH AN APPROVED BITUMINOUS PAINT PRIOR TO BACKFILLING TRENCH.



RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

APPROVED BY: *Warren D. Williams*

CHIEF ENGINEER

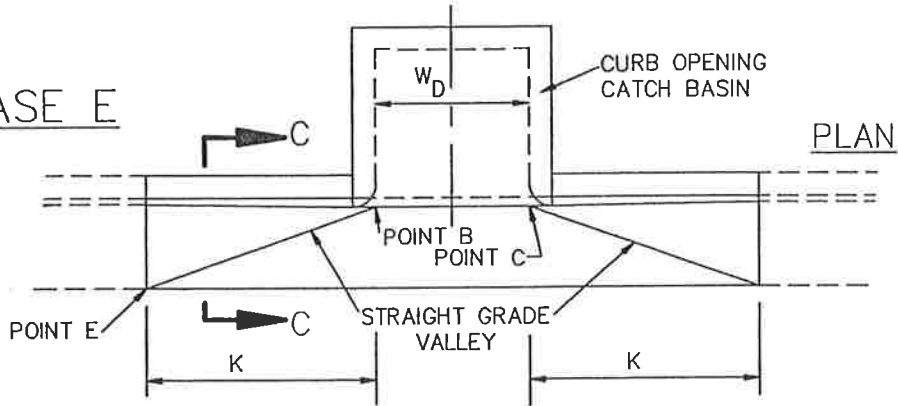
DATE: April 5, 2004

R.C.E. NO. 32336

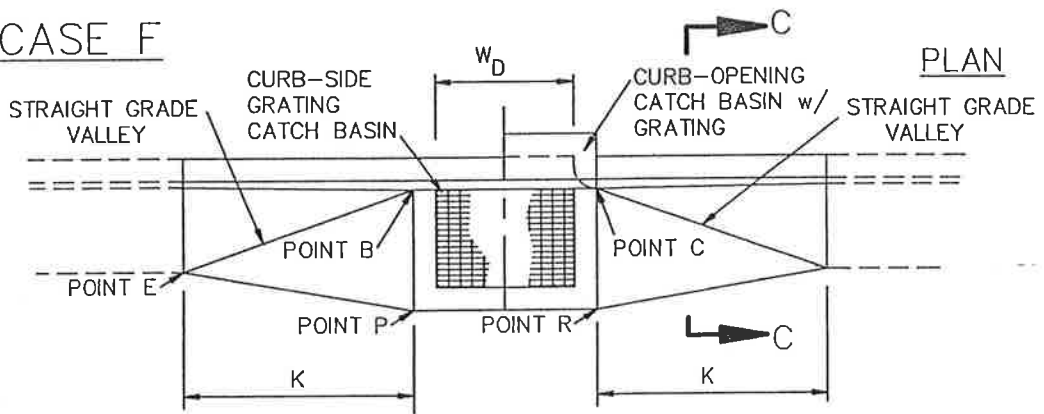
CONCRETE BULKHEAD

STANDARD DRAWING NUMBER M816

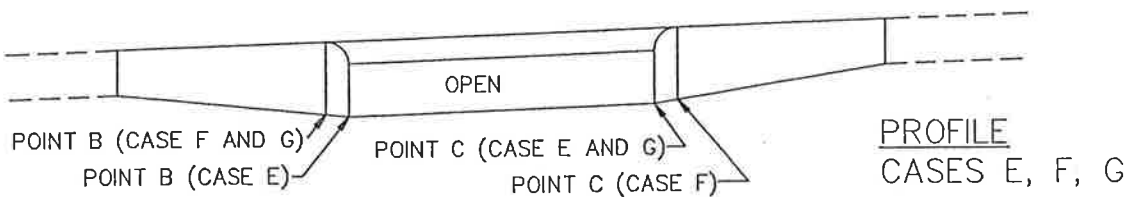
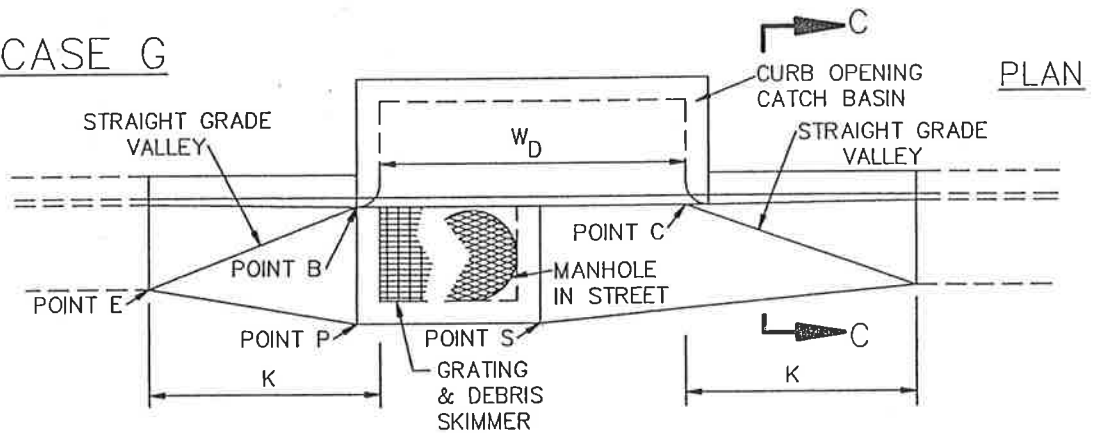
CASE E



CASE F



CASE G



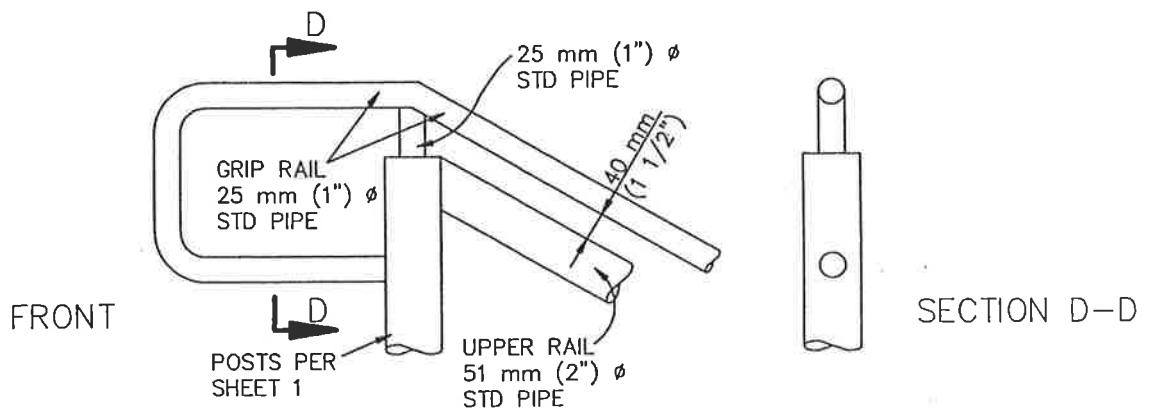
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

LOCAL DEPRESSIONS AT CATCH BASINS

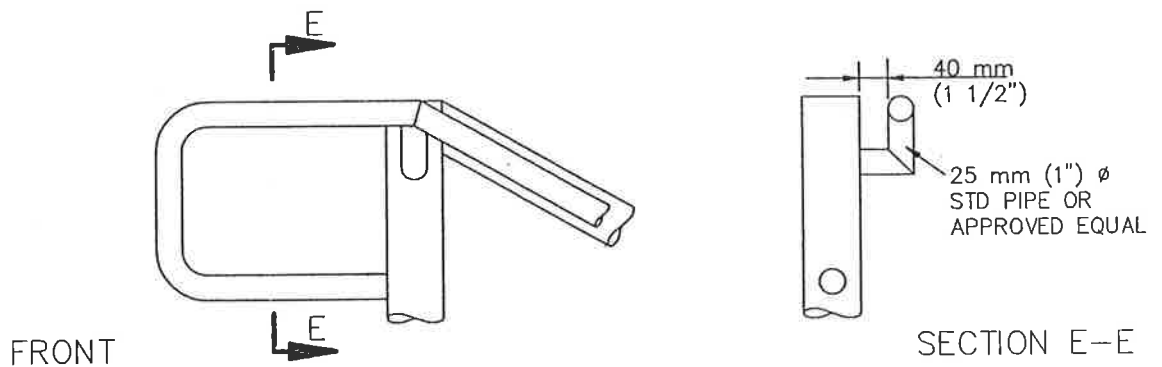
STANDARD PLAN  
METRIC

313-2

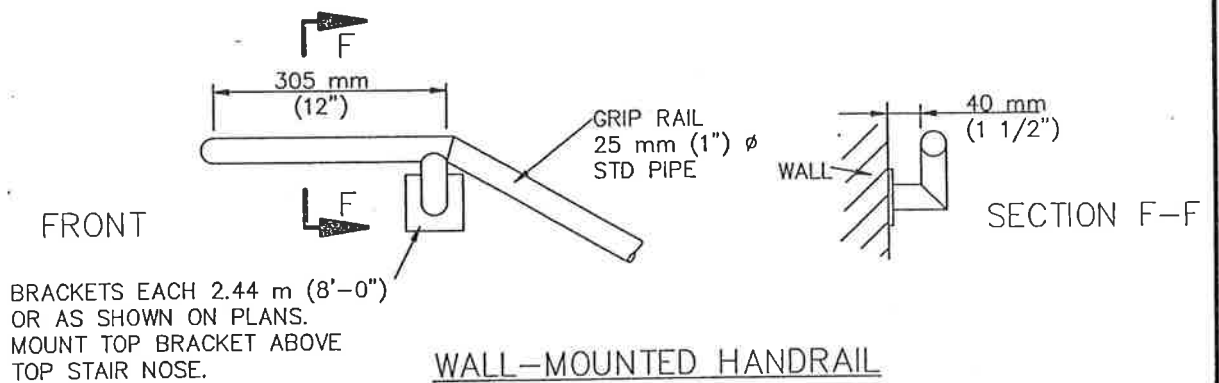
SHEET 3 OF 4



TOP RAIL TYPE 1



TOP RAIL TYPE 2





TYPE A WALL

DESIGN H	1020 (3'-4")	1220 (4'-0")	1420 (4'-8")	1630 (5'-4")	1830 (6'-0")
W	1000 mm (3'-2")	1100 (3'-6")	1200 (3'-10")	1300 (4'-2")	1400 (4'-6")
(a) BARS	————	————	————	#16M @ 406 (#5 @ 16")	#16M @ 406 (#5 @ 16")
(b) BARS	————	————	————	#16M @ 406 (#5 @ 16")	#16M @ 406 (#5 @ 16")
(c) BARS	#16M @ 406 (#5 @ 16")	#16M @ 406 (#5 @ 16")	#16M @ 406 (#5 @ 16")	————	————

TYPE B WALL

DESIGN H	1020 mm (3'-4")	1220 (4'-0")	1420 (4'-8")	1630 (5'-4")	1830 (6'-0")
W	850 (2'-8")	950 (3'-0")	1050 (3'-4")	1150 (3'-8")	1250 (4'-0")
(a) BARS	————	————	————	#16M @ 375 (#5 @ 15")	#16M @ 375 (#5 @ 15")
(b) BARS	————	————	————	#16M @ 375 (#5 @ 15")	#16M @ 375 (#5 @ 15")
(c) BARS	#16M @ 375 (#5 @ 15")	#16M @ 375 (#5 @ 15")	#16M @ 375 (#5 @ 15")	————	————
(e) BARS	#16M @ 375 (#5 @ 15")	#16M @ 375 (#5 @ 15")	#16M @ 375 (#5 @ 15")	#16M @ 375 (#5 @ 15")	#16M @ 300 (#5 @ 12")

DESIGN DATA (SEE SPPWC 617 FOR PCC, STEEL, AND OTHER SOIL DATA)

$$f_m = 3.5 \text{ MPa (500 psi)} \quad f'_m = 10.5 \text{ MPa (1500 psi)}$$

REQUIRED SOIL BEARING CAPACITY 95 kPa (2000 psf)

NOTES:

1. SEE SPPWC 617 FOR STANDARD WALL DETAILS.
2. METRIC REINFORCING BAR SPACING IS IN MILLIMETERS.

# SPECIAL NOTES FOR TRENCH REPAIR DETAIL

## A. ASPHALT CONCRETE (A.C.):

1. A.C. SURFACE LAYER, OR CAP, SHALL BE 1/2-INCH MAXIMUM, MEDIUM, PG 70-10 MATERIAL PER CALTRANS SPECIFICATIONS.
2. A.C. BASE OR BOTTOM, LAYER(S) SHALL BE 3/4-INCH MAXIMUM, MEDIUM, PG 70-10 MATERIAL PER CALTRANS SPECIFICATIONS.
3. MAXIMUM A.C. LIFT THICKNESS = 3.0".
4. ALL A.C. BASE LAYERS AND ALL EDGES TO RECEIVE HEAVY TACK COAT.
5. WHEN SURFACE WIDTH OF A.C. TRENCH TO BE PAVED IS 10', OR WIDER, A BARBARA-GREEN PAVER, OR EQUAL, SHALL BE USED.

## B. AGGREGATE BASE (A.B.):

1. AGGREGATE BASE (A.B.) SHALL BE CLASS II A.B. PER CALTRANS SPECIFICATIONS.
2. ALL A.B. AS PART OF STRUCTURAL SECTION SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
3. A.B. MAY BE USED AS TRENCH BACKFILL; HOWEVER, THE PORTION THAT IS PART OF THE STREET STRUCTURAL SECTION AND THE ADDITIONAL TOP 12" OF A.B. SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.

## C. CONCRETE SLURRY:

1. FOR TRENCH WIDTHS 0" TO 12", CONCRETE SLURRY MAY BE BROUGHT TO 3" BELOW TOP OF A.C. SURFACE.
2. FOR TRENCH WIDTHS > 12", CONCRETE SLURRY MAY BE BROUGHT TO BOTTOM OF A.B. LAYER (I.E. NEED COMPLETE A.B. AND A.C. LAYERS).

## D. TIMING OF FINAL A.C. LAYER (OR CAP):

1. THE A.C. SURFACE LAYER, OR CAP, SHALL BE PLACED THE SAME DAY AS THE BASE A.C. UNLESS SPECIFICALLY APPROVED OTHERWISE BY CITY ENGINEER.
2. IF THE A.C. SURFACE LAYER IS NOT PLACED THE SAME DAY AS THE BASE A.C. LAYER(S), THEN,
  - NO "LIPS" SHALL BE LEFT OPEN TO TRAFFIC ("LIPS" SHALL BE RAMPED, TRENCH CAPPED WITH COLD-MIX, OR OTHERWISE ADDRESSED TO SATISFACTION OF THE CITY ENGINEER).
  - THE A.C. SURFACE LAYER SHALL BE PLACED AS SOON AS POSSIBLE, BUT IN NO CASE LONGER THAN 14 CALENDAR DAYS, AFTER THE BASE A.C. LAYER(S) ARE PLACED.

## E. SPECIAL SITUATIONS:

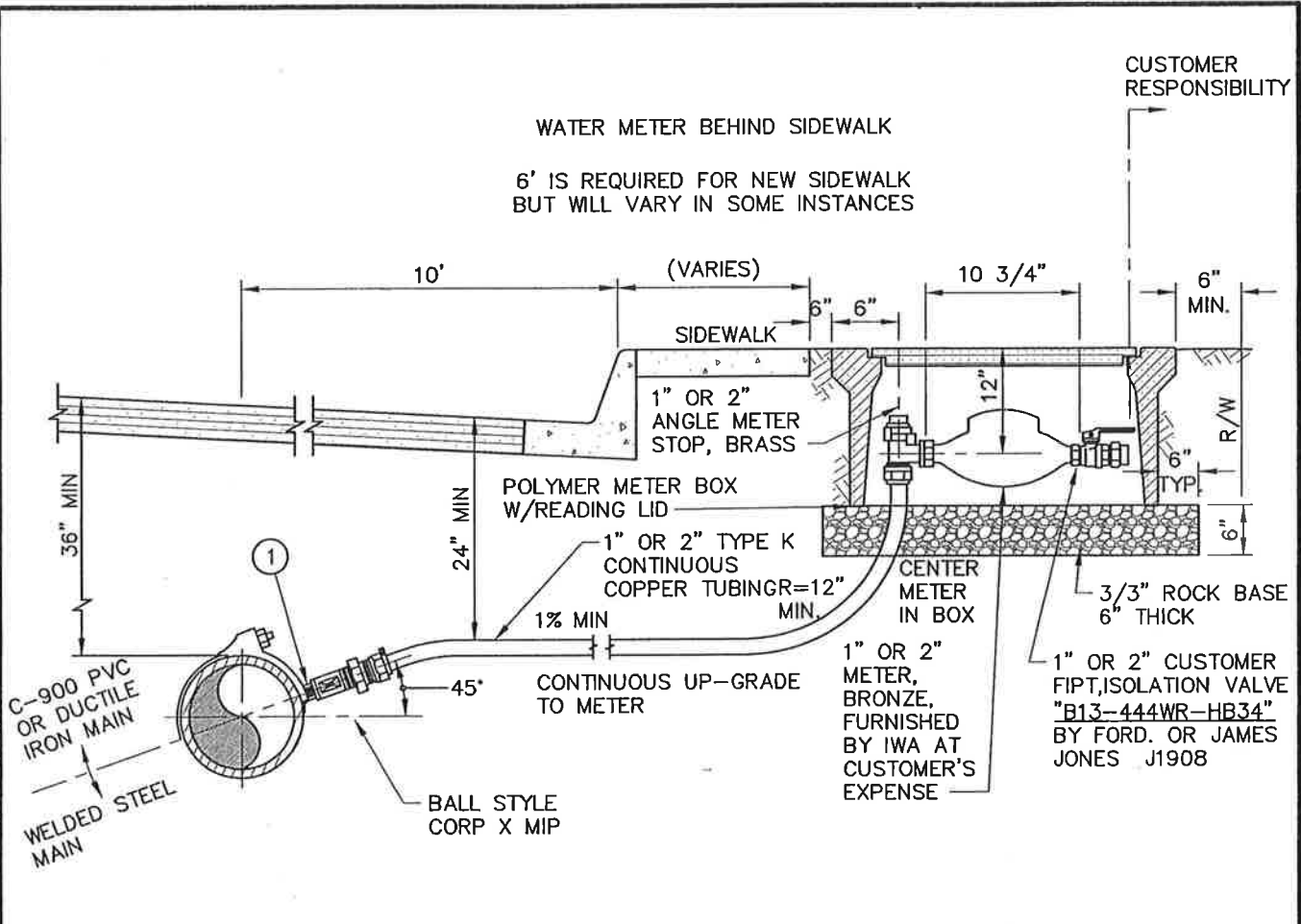
1. THE CITY ENGINEER MAY REQUIRE ADDITIONAL REQUIREMENTS FOR TRENCH REPAIR FOR SPECIAL SITUATIONS.
2. SPECIAL SITUATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO:
  - 1) MULTIPLE TRENCHES IN SAME AREA,
  - 2) TRENCHING ON ROAD CAPPED WITH RUBBER ASPHALT, AND
  - 3) TRENCHING IN ROADWAY THAT WAS PAVED WITHIN THE PAST 3 YEARS (THIS WILL ONLY BE ALLOWED IN LIMITED CIRCUMSTANCES).

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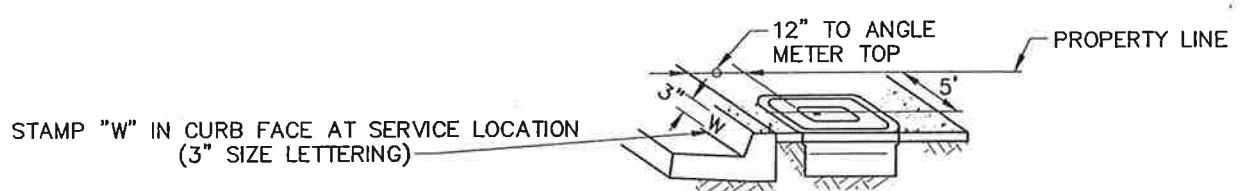


CITY OF INDIO		STANDARD PLAN NUMBER	
		<b>172B</b>	
		SHEET <u>2</u> OF <u>2</u>	
GRANT D. EKLUND CITY ENGINEER RCE 61559	DATE	REVISION	DRAWN BY
SPECIAL NOTES FOR TRENCH REPAIR			DATE
DECEMBER 2007			

P:\Engineering\Indio City of 5471 - IWA Water Master Plan 7 - Standards and Specifications\5.4 IWA Standard Drawings\Cad\Dwg\IWA-700 7/5/2007 2:21 PM




WATER METER ADJACENT TO CURB IN PARKWAY AREA WHERE NO SIDEWALK EXISTS



**NOTES:**

1. DOUBLE STRAP BRASS SERVICE SADDLE IS REQUIRED FOR DUCTILE IRON MAINS AND A WELDED COUPLING OR DOUBLE STRAP IS REQUIRED FOR STEEL MAINS. SERVICE SHALL NOT BE INSTALLED WITHIN 18" OF VALVE, COUPLING, JOINT, OR FITTING.
2. THE WATER SERVICE LINE SHALL BE LAID PERPENDICULAR FROM THE WATER MAIN TO THE METER STOP.
3. METER BOX SHALL BE SET BEHIND SIDEWALK IF RIGHT-OF-WAY PERMITS AND FLUSH WITH TOP OF CURB IN PARKWAY IF NO SIDEWALK EXISTS
4. NO STRUCTURE (BLOCK WALL, PLANTER, ETC.. . . ) SHALL BE CONSTRUCTED WITHIN 1' OF METER BOX.
5. METER AND METER BOX TO BE FURNISHED BY THE INDIO WATER AUTHORITY
6. NEW INSTALLATION MUST COMPLY WITH WATER SERVICE INSTALLATION GUIDE.

	<b>INDIO WATER AUTHORITY</b>		STANDARD PLAN NUMBER	
	GARY F. LEWIS		<b>700</b>	
	GENERAL SERVICES MANAGER    DATE		SHEET <u>1</u> OF <u>1</u>	
	GRANT D. EKLUND, CITY ENGINEER		REVISION	DRAWN BY
RCE 61559    EXP. 06/30/09    DATE		<b>1" AND 2" SERVICE CONNECTION</b>		
		JULY 2007		



OFFICE OF  
CLERK OF THE BOARD OF SUPERVISORS  
1st FLOOR, COUNTY ADMINISTRATIVE CENTER  
P.O. BOX 1147, 4080 LEMON STREET  
RIVERSIDE, CA 92502-1147  
PHONE: (951) 955-1060  
FAX: (951) 955-1071

KECIA HARPER-IHEM  
Clerk of the Board of Supervisors

KIMBERLY A. RECTOR  
Assistant Clerk of the Board

April 8, 2010

THE PRESS ENTERPRISE  
ATTN: LEGALS  
PO BOX 792  
RIVERSIDE, CA 92501

VIA FAX (951) 368-9018  
E-MAIL: [legals@pe.com](mailto:legals@pe.com)

**RE: NOTICE INVITING BIDS: CLINTON STREET B2-0392**

To Whom It May Concern:

Attached is a copy for publication in your newspaper for **TEN (10) TIMES:**

Saturday	- April 10, 2010	Thursday	- April 15, 2010
Sunday	- April 11, 2010	Friday	- April 16, 2010
Monday	- April 12, 2010	Saturday	- April 17, 2010
Tuesday	- April 13, 2010	Sunday	- April 18, 2010
Wednesday	- April 14, 2010	Monday	- April 19, 2010

We require your affidavit of publication immediately upon completion of the last publication.

Your invoice must be submitted to this office in duplicate, WITH TWO CLIPPINGS OF THE PUBLICATION.

**NOTE: PLEASE COMPOSE THIS PUBLICATION INTO A SINGLE COLUMN FORMAT.**

Thank you in advance for your assistance and expertise.

Sincerely,

*Mcgil*

Cecilia Gil, Board Assistant to  
KECIA HARPER-IHEM, CLERK OF THE BOARD

# THE PRESS-ENTERPRISE

## CLASSIFIED ADVERTISING RECEIPT

3450 Fourteenth St.  
Riverside, CA 92501-3878  
**1-800-880-0345**  
**951-684-1200**  
**951-368-9018 Fax**

Printed by: **Martindale, Holly** Ad #: **10227088**  
at: **8:40 am**  
on: **Thursday, Apr 08, 2010**

### Payment Information

Date	Payment #	Type	Card Holder	Exp.	Approval	Amount
<b>Total payments:</b>						<b>\$ 0.00</b>

**Note:** Advertising may be subject to credit approval.

### Account Information

Phone #: (951) 955-1067  
Name: BOARD OF SUPERVISORS  
Address: P.O. BOX 1147  
COUNTY OF RIVERSIDE  
RIVERSIDE CA 92502

Acct #: 045202  
Client:  
Placed by: Cecilia Gil  
Fax #: (951) 955-1071

**Gross price:** \$ 1,161.60  
**Net price:** \$ 1,161.60  
**Total payments:** \$ 0.00

**Amount Due:** **\$ 1,161.60**

### Ad Information

Classification: Legals  
Publications: Press-Enterprise

Start date: 04-10-10  
Stop date: 04-19-10  
Insertions: 10

Rate code: LE-County  
Ad type: Ad Liner  
Taken by: Martindale, Holly

Size: 2x47.860  
Bill size: 96.00x 5.14 agate lines

### Ad Copy:

#### NOTICE INVITING BIDS

County of Riverside, herein called Owner, invites sealed proposals for construction of:

**CLINTON STREET**  
IN THE CITY OF INDIO AND COUNTY OF RIVERSIDE  
STREET IMPROVEMENT PLANS

#### PROJECT NO. B2-0392

Proposal shall be delivered to the Riverside County Transportation Department, 14th Street Annex, 3525 14th Street, Riverside, California 92501, telephone (951) 955-6780 not later than 2:00 p.m., on Wednesday, April 28, 2010, to be promptly opened in public at said address. Each proposal shall be in accordance with plans, specifications, and other contract documents, dated March 2010, and prepared by County of Riverside, whose address is same as the above, from whom they may be obtained upon deposit of \$50.00 per set plus mailing. No refund. Prospective bidders may preview the plans, specifications and other contract documents, at no charge prior to purchase, at the above noted location.

The Contractor is required to have a Class "A" license at the time of bid submission.

Engineering Estimate: \$ 3,393,000 - \$3,960,000 (Base Bid)  
\$ 85,000 - \$ 100,000 (Alternate "A")  
\$ 52,000 - \$ 61,000 (Alternate "B")  
\$ 12,000 - \$ 14,000 (Alternate "C")

Bid Bond 10%  
Performance Bond 100%  
Payment Bond 100%  
Working Days 50 Days  
[www.tlma.co.riverside.ca.us/trans](http://www.tlma.co.riverside.ca.us/trans)

Dated: April 8, 2010  
Kecia Harper-Ihem,  
Clerk of the Board  
By: Cecilia Gil, Board Assistant  
4/10-19



OFFICE OF  
CLERK OF THE BOARD OF SUPERVISORS  
1st FLOOR, COUNTY ADMINISTRATIVE CENTER  
P.O. BOX 1147, 4080 LEMON STREET  
RIVERSIDE, CA 92502-1147  
PHONE: (951) 955-1060  
FAX: (951) 955-1071

KECIA HARPER-IHEM  
Clerk of the Board of Supervisors

KIMBERLY A. RECTOR  
Assistant Clerk of the Board

April 8, 2010

THE DESERT SUN  
ATTN: LEGALS  
PO BOX 2734  
PALM SPRINGS, CA 92263

VIA FAX (760) 778-4731  
E-MAIL: [legals@thedesertsun.com](mailto:legals@thedesertsun.com)

**RE: NOTICE INVITING BIDS: CLINTON STREET B2-0392**

To Whom It May Concern:

Attached is a copy for publication in your newspaper for **FIVE (5) TIMES:**

Wednesday - April 14, 2010  
Thursday - April 15, 2010  
Friday - April 16, 2010  
Saturday - April 17, 2010  
Sunday - April 18, 2010

We require your affidavit of publication immediately upon completion of the last publication.

Your invoice must be submitted to this office in duplicate, WITH TWO CLIPPINGS OF THE PUBLICATION.

**NOTE: PLEASE COMPOSE THIS PUBLICATION INTO A SINGLE COLUMN FORMAT.**

Thank you in advance for your assistance and expertise.

Sincerely,

*Mcgil*

Cecilia Gil, Board Assistant to  
KECIA HARPER-IHEM, CLERK OF THE BOARD

**Gil, Cecilia**

---

**From:** Moeller, Charlene [CMOELLER@palmspri.gannett.com]  
**Sent:** Thursday, April 08, 2010 8:42 AM  
**To:** Gil, Cecilia  
**Subject:** RE: FOR PUBLICATION: Clinton Street B2-0392

Ad received and will publish on date(s) requested.

**Charlene Moeller**

**Public Notice Customer Service Rep.**

**The Desert Sun Newspaper**

**750 N. Gene Autry Trail, Palm Springs, CA 92262**

**(760) 778-4578, Fax (760) 778-4731**

**Desert Sun** [legals@thedesertsun.com](mailto:legals@thedesertsun.com)

**& Desert Post Weekly** [dpwlegals@thedesertsun.com](mailto:dpwlegals@thedesertsun.com)

The Coachella Valley's #1 Source in News & Advertising! Visit us at [mydesert.com](http://mydesert.com)

**NOTE: Starting on March 29th, there will be a \$10 affidavit processing fee added to the cost of each Public Notice**

---

**From:** Gil, Cecilia [mailto:CCGIL@rcbos.org]  
**Sent:** Thursday, April 08, 2010 8:01 AM  
**To:** tds-legals  
**Subject:** FW: FOR PUBLICATION: Clinton Street B2-0392

Good Morning! Attached is a Notice Inviting Bids, for publication from April 14 to April 18, 2010 (5 times). Please confirm. THANK YOU!

***Cecilia Gil***

Board Assistant to the  
Clerk of the Board of Supervisors  
951-955-8464

***THE COUNTY ADMINISTRATIVE CENTER IS CLOSED EVERY FRIDAY UNTIL FURTHER NOTICE.***  
**PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING.**

**NOTICE INVITING BIDS**

County of Riverside, herein called Owner, invites sealed proposals for construction of:

**CLINTON STREET  
IN THE CITY OF INDIO AND COUNTY OF RIVERSIDE  
STREET IMPROVEMENT PLANS**

**PROJECT NO. B2-0392**

Proposal shall be delivered to the Riverside County Transportation Department, 14<sup>th</sup> Street Annex, 3525 14<sup>th</sup> Street, Riverside, California 92501, telephone (951) 955-6780 not later than 2:00 p.m., on Wednesday, April 28, 2010, to be promptly opened in public at said address. Each proposal shall be in accordance with plans, specifications, and other contract documents, dated March 2010, and prepared by County of Riverside, whose address is same as the above, from whom they may be obtained upon deposit of \$50.00 per set plus mailing. No refund. Prospective bidders may preview the plans, specifications and other contract documents, at no charge prior to purchase, at the above noted location.

The Contractor is required to have a Class "A" license at the time of bid submission.

Engineering Estimate:	\$ 3,393,000 - \$3,960,000 (Base Bid)
	\$ 85,000 - \$ 100,000 (Alternate "A")
	\$ 52,000 - \$ 61,000 (Alternate "B")
	\$ 12,000 - \$ 14,000 (Alternate "C")
Bid Bond	10%
Performance Bond	100%
Payment Bond	100%
Working Days	50 Days

[www.tlma.co.riverside.ca.us/trans](http://www.tlma.co.riverside.ca.us/trans)

Dated: April 8, 2010

Kecia Harper-Ihem, Clerk of the Board  
By: Cecilia Gil, Board Assistant



⑨ REMITTANCE ADDRESS  
 POST OFFICE BOX 12009  
 RIVERSIDE, CA 92502-2209  
 FAX (951) 368-9026

① BILLING PERIOD 04/18/10 - 04/19/10  
 ② BILLING DATE 04/19/10  
 ⑩ ADVERTISING/CLIENT NAME BOARD OF SUPERVISORS  
 FOR BILLING INFORMATION CALL (951) 368-9713  
 ⑪ TOTAL AMOUNT DUE 1.161.60  
 ⑫ UNAPPLIED AMOUNT 0  
 ⑬ TERMS OF PAYMENT Due Upon Receipt

⑭ PAGE NO 1

⑤ BILLED ACCOUNT NAME AND ADDRESS  
 BOARD OF SUPERVISORS  
 COUNTY OF RIVERSIDE  
 P.O. BOX 1147  
 RIVERSIDE CA 92502

⑮ BILLED ACCOUNT NUMBER 045202  
 ⑯ REP NO LE04

Statement #: 56535103 Amount Paid \$ \_\_\_\_\_ Your Check # \_\_\_\_\_

**PLEASE DETACH AND RETURN UPPER PORTION WITH YOUR REMITTANCE**

⑬ DATE	⑭ REFERENCE	⑬ ⑭ DESCRIPTION OTHER COMMENTS CHARGES	⑮ SAU SIZE ⑯ BILLED UNITS	⑰ RATE	⑱ GROSS AMOUNT	⑲ NET AMOUNT
04/10	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.30		124.80
04/11	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.20		115.20
04/12	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.20		115.20
04/13	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.20		115.20
04/14	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.20		115.20
04/15	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.20		115.20
04/16	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.20		115.20
04/17	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.20		115.20
04/18	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.20		115.20
04/19	4175605 CO	PROJECT # B2-0392 Class : 10 Ctext Ad# 10227088 Placed By : Cecilia Gil	96 L	1.20		115.20

*Transp.  
3.76 of 4/6/10*

RECEIVED RIVERSIDE COUNTY  
 CLERK / BOARD OF SUPERVISORS  
 2011 MAY -3 PM 4:18

COMING SOON! Electronic Tearsheet Delivery Service  
 It's easy! Search, view, save, email notification & more

⑳ EQUIPMENT NET AMOUNT DUE	㉑ 30 DAYS	㉒ 60 DAYS	㉓ OVER 90 DAYS	㉔ UNAPPLIED AMOUNT	㉕ PLEASE PAY THIS AMOUNT
					1,161.60

THE PRESS-ENTERPRISE  P.O. BOX 12009  
 RIVERSIDE, CA 92502-2209  
 TELEPHONE (951) 368-9711  
 (951) 368-9720 (951) 368-9713

**ADVERTISING STATEMENT/INVOICE**

\* UNAPPLIED AMOUNTS ARE INCLUDED IN TOTAL AMOUNT DUE 

⑳ STATEMENT NUMBER	㉑ BILLING PERIOD	㉒ BILLED ACCOUNT NUMBER	㉓ ADVERTISER/CLIENT NUMBER	㉔ ADVERTISER/CLIENT NAME
56535103	04/18/10 - 04/19/10	045202		BOARD OF SUPERVISORS

# THE PRESS-ENTERPRISE

3450 Fourteenth Street  
Riverside CA 92501-3878  
951-684-1200  
951-368-9018 FAX

**PROOF OF PUBLICATION  
(2010, 2015.5 C.C.P.)**

Press-Enterprise

PROOF OF PUBLICATION OF

Ad Desc.: project # b2-0392

I am a citizen of the United States. I am over the age of eighteen years and not a party to or interested in the above entitled matter. I am an authorized representative of THE PRESS-ENTERPRISE, a newspaper of general circulation, printed and published daily in the County of Riverside, and which newspaper has been adjudicated a newspaper of general circulation by the Superior Court of the County of Riverside, State of California, under date of April 25, 1952, Case Number 54446, under date of March 29, 1957, Case Number 65673 and under date of August 25, 1995, Case Number 267864; that the notice, of which the annexed is a printed copy, has been published in said newspaper in accordance with the instructions of the person(s) requesting publication, and not in any supplement thereof on the following dates, to wit:

04-10-10  
04-11-10  
04-12-10  
04-13-10  
04-14-10  
04-15-10  
04-16-10  
04-17-10  
04-18-10  
04-19-10

I Certify (or declare) under penalty of perjury that the foregoing is true and correct.

Date: Apr. 19, 2010  
At: Riverside, California



BOARD OF SUPERVISORS  
P.O. BOX 1147  
COUNTY OF RIVERSIDE  
RIVERSIDE CA 92502

Ad #: 10227088

PO #:

Agency #: \_\_\_\_\_

Ad Copy:

## NOTICE INVITING BIDS

County of Riverside, herein called Owner, invites sealed proposals for construction of:

**CLINTON STREET  
IN THE CITY OF INDIO AND COUNTY OF  
RIVERSIDE  
STREET IMPROVEMENT PLANS**

### PROJECT NO. B2-0392

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The Contractor is required to have a Class 'A' license at the time of bid submission.

Engineering \$ 3,393,000 - \$3,960,000 (Base Bid)  
Estimate: \$ 85,000 - \$ 100,000 (Alternate 'A')  
\$ 52,000 - \$ 61,000 (Alternate 'B')  
\$ 12,000 - \$ 14,000 (Alternate 'C')

Bid Bond 10%  
Performance 100%  
Bond  
Payment Bond 100%  
Working Days 50 Days  
[www.tlma.co.riverside.ca.us/trans](http://www.tlma.co.riverside.ca.us/trans)

Dated: April 8, 2010

Kecia Harper-Ihcm,  
Clerk of the Board  
By: Cecilia Gil, Board Assistant  
4/10-19

2010 APR 19 11:30 AM

RECEIVED  
APR 19 2010

# The Desert Sun

mydesert.com

750 N. Gene Autry Trail  
Palm Springs, CA 92262  
Billing Inquiries: (866) 875-0854  
Main Office: (760) 322-8889

## ADVERTISING INVOICE/STATEMENT

Make Checks payable to DESERT SUN PUBLISHING CO.  
P.O. Box 677368 Dallas, TX 75267-7368  
A finance charge of 1.5% per month(18% Annually) will be added to balances not paid by the 20th.

132

RIV0690000037356650126979510820

RIVERSIDE COUNTY-BOARD OF SUP.  
PO BOX 1147  
RIVERSIDE CA 92502-1147

Customer No.	Invoice No.
RIV069	0003735665
For the Period	Thru
03/29/10	05/02/10
<b>Due Date</b>	<b>Amount Due</b>
05/17/10	12,697.95
<b>AMOUNT PAID</b>	

PLEASE RETURN THIS TOP SECTION WITH PAYMENT IN THE ENCLOSED ENVELOPE AND INCLUDE YOUR CUSTOMER NUMBER ON REMITTANCE.

Date	EDT	Class	Description	Times Run	Col	Depth	Total Size	Rate	Amount
0329			BALANCE FORWARD						4,965.04
0320	CLS	0001	SANDI SCHLEMNO 1190 / RES 20	3	5	21.00	315.00		3,772.35
0331	CLS	0001	CECILIA NO 1338 NOTICE T	12	2	83.00	1992.00		704.90
0403	CLS	0001	CECILIA NO 1427 NOTICE I	9	2	79.00	1422.00		278.28
0409	DLY		SENIOR INSPIRATION AWARDS	1	3	10.00	30.00		500.00
0414	CLS	0001	CECILIA NO 1529 NOTICE I	10	2	49.00	980.00		422.70
0416	CLS	0001	CECILIA NO 1579 NOTICE O	2	2	316.00	1264.00		540.56
0418	DLY		SENIOR INSPIRATION AWARDS	1	3	10.00	30.00		500.00
0423	CLS	0001	CECILIA NO 1692 NOTICE O	2	2	101.00	404.00		183.66
0424	CLS	0001	CECILIA NO 1699 NOTICE O	2	2	246.00	984.00		424.36
0428	CLS	0001	CECILIA NO 1730 NOTICE I	10	2	47.00	940.00		406.10
									<b>2010 MAY 10 PM 3:55</b>
Current		Over 30 Days	Over 60 Days	Over 90 Days	Over 120 Days	<b>Total Due</b>			
7,732.91		1,730.86	3,044.68	.00	189.50	<b>12,697.95</b>			
Contract Type	Contract Qnty.	Expiration Date	Current Usage	Total Used	Quantity Remaining	Salesperson			
						MOELLER			

RECEIVED RIVERSIDE COUNTY  
CLERK / BOARD OF SUPERVISORS

The Advertiser shall make payment within 15 days of the billing date indicated on Company's statement, and, in the event that it fails to make payment within such time, Company may eject advertising copy and / or immediately cancel this contract and Advertiser agrees to indemnify Company for all expenses incurred in connection with the collection of amounts payable under this contract, including but not limited to collection fees, attorney's fees and court costs. If this agreement is cancelled due to Advertiser's failure to make timely payment, Company may rebill the Advertiser for the outstanding balance due at the open or earned contract rate, whichever is applicable.

TO ENSURE PROPER CREDIT, PLEASE RETURN THE TOP SECTION AND INCLUDE YOUR CUSTOMER NUMBER ON REMITTANCE.

Customer Number	Name	Invoice Number	Amount Paid
RIV069	RIVERSIDE COUNTY-BOARD OF SUP.	0003735665	

THE DESERT SUN PUBLISHING CO.  
ADVERTISING INVOICE/STATEMENT

3.76 of 04/06/10

The Desert Sun  
750 N Gene Autry Trail  
Palm Springs, CA 92262  
760-778-4578 / Fax 760-778-4731

Certificate of Publication

State Of California ss:  
County of Riverside

Advertiser:

RIVERSIDE COUNTY-BOARD OF SUP.  
4080 LEMON ST  
RIVERSIDE CA 925013

2000199701

I am over the age of 18 years old, a citizen of the United States and not a party to, or have interest in this matter. I hereby certify that the attached advertisement appeared in said newspaper (set in type not smaller than non paniel) in each and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

Newspaper:	The Desert Sun		
4/14/2010	4/15/2010	4/16/2010	
4/17/2010	4/18/2010		

I acknowledge that I am a principal clerk of the printer of The Desert Sun, printed and published weekly in the City of Palm Springs, County of Riverside, State of California. The Desert Sun was adjudicated a newspaper of general circulation on March 24, 1988 by the Superior Court of the County of Riverside, State of California Case No. 191236.

I declare under penalty of perjury that the foregoing is true and correct. Executed on this 19th day of April, 2010 in Palm Springs, California.



Declarant

No 1529 **NOTICE INVITING BIDS**

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**CLINTON STREET  
IN THE CITY OF INDIO AND  
COUNTY OF RIVERSIDE  
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\$ 52,000 - \$ 81,000 (Alternate "B")  
\$ 12,000 - \$ 14,000 (Alternate "C")

Bid Bond 10%  
Performance Bond 100%  
Payment Bond 100%  
Working Days 50 Days

[www.tlma.co.riverside.ca.us/trans](http://www.tlma.co.riverside.ca.us/trans)

Dated: April 8, 2010  
Kecia Harper-Ihem, Clerk of the Board  
By: Cecilia Gil, Board Assistant

Published: 4/14,15,16,17,18/2010

SD10 V68 S1 BH S: 28