

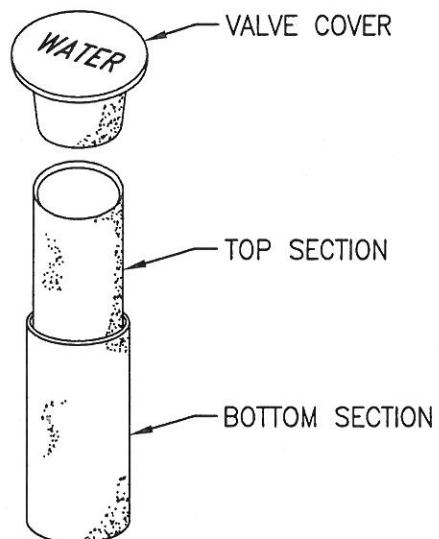
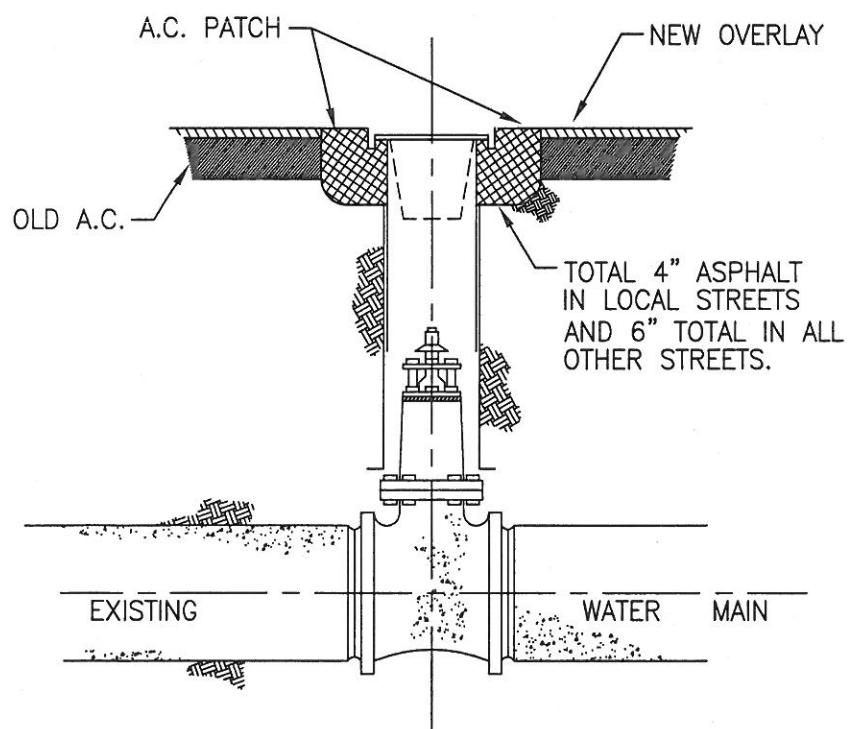
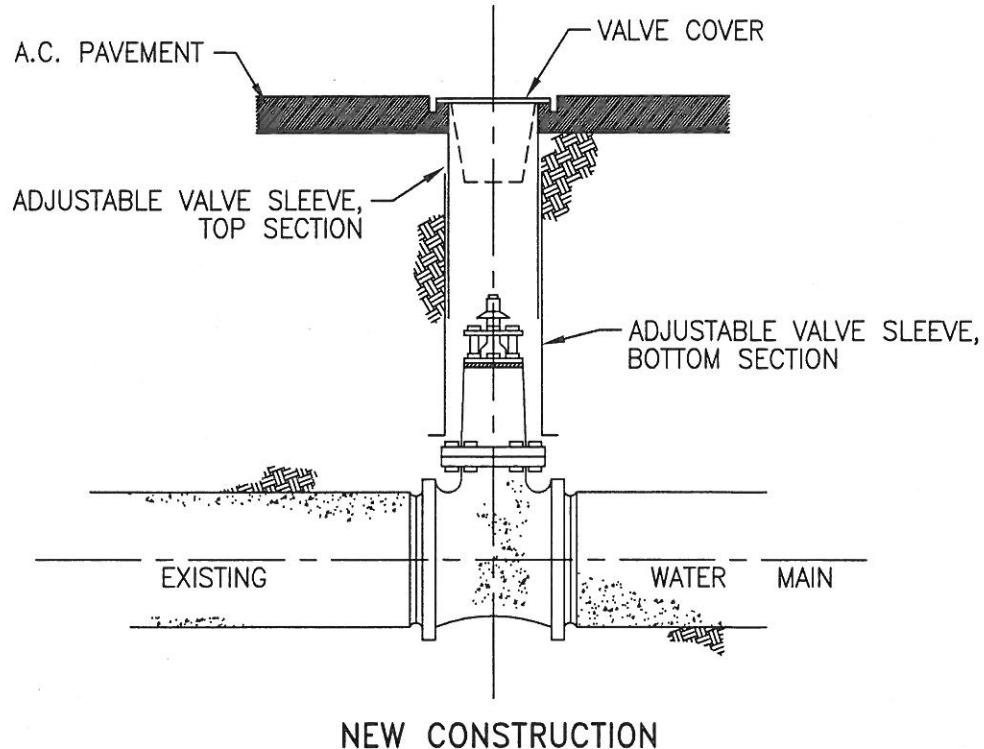


## CITY OF FONTANA DESIGN STANDARDS

Link to Location on City Website:

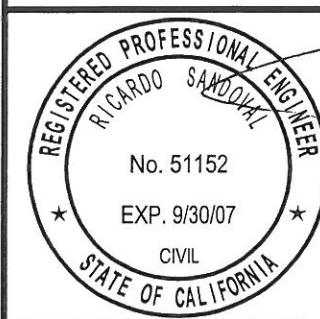
<https://www.fontanaca.gov/3483/Design-and-Construction-Standards>

STD #	SHEETS	SECTION 6000 - MISCELLANEOUS	DATE APPROVED
6000	1	Gate Valve Adjustments	10/18/2006
6001	4	Blue Dot Marker Placement	10/18/2006
6002	2	Storm Drain Inlet Signage	10/18/2006
6003	2	Project Sign	11/7/2022
6004	2	Sewer and Storm Drain Easement Widths	10/18/2006
6005	1	Underground Utility Locations	2/6/2024



ADJUSTABLE  
VALVE SLEEVE

NOT TO SCALE



APPROVED BY:

*Ricardo Sandoval* 10-18-06  
CITY ENGINEER  
**RICARDO SANDOVAL**

DATE

REVIEWED BY: *DL*

DATE OF LAST REVISION: \_\_\_\_\_

CITY OF FONTANA

**TYPICAL GATE VALVE  
ADJUSTMENTS**

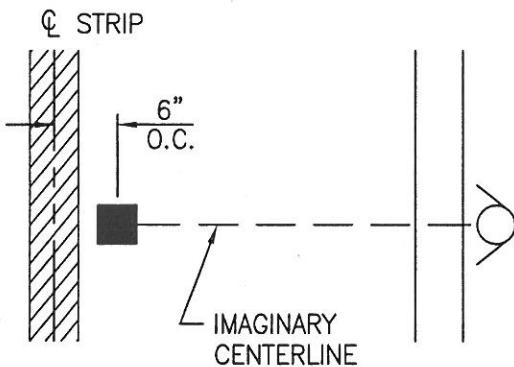
07/10/06

STD. PLAN NO. 6000

SHT 1 OF 1

## "BLUE DOT" MARKER PLACEMENT NOTES

1. THE REFLECTIVE SIDE SHALL FACE THE FLOW OF TRAFFIC.
2. THE "BLUE DOT" SHALL BE IN LINE WITH THE FIRE HYDRANT, EXCEPT WHERE TWO (2) DOTS ARE USED FOR INTERSECTIONS.
3. A BLUE REFLECTIVE MARKER WILL BE PLACED 6" ON CENTER FROM PAINTED LINES AS PER PLACEMENT STANDARDS 702-1, 2, OR 3, AS APPLICABLE. IF NO TRAFFIC LINES EXIST, PLACE BLUE DOT 6" FROM THE CENTER OF THE STREET ON THE FIRE HYDRANT SIDE. (SEE STANDARD PLACEMENT DETAIL HEREON).
4. IF A PAINTED TRAFFIC LIMIT LINE FOR STOP SIGNS EXISTS, PLACE THE SECOND "BLUE DOT" 2 FEET BACK FROM LINE, 6" ON CENTER FROM PAINTED TRAFFIC LIMIT LINE (SEE STANDARD 702-1, "TWO LANE STREET AT INTERSECTION").
5. IF NO TRAFFIC LIMIT LINE FOR STOP SIGNS EXISTS, PLACE "BLUE DOT" IN LINE WITH SIDEWALK EDGE ON THE SIDE CLOSEST TO PROPERTY LINE, 6" ON CENTER FROM THE CENTER OF THE STREET LINE (SEE STANDARD 702-1, "TWO LANE STREET AT INTERSECTION").
6. THE "BLUE DOT" SHALL BE APPLIED TO A DRY, DIRT FREE STREET AND ENOUGH EPOXY SHALL BE APPLIED SO THAT SOME EPOXY OOZES OUT AROUND THE EDGE OF THE "BLUE DOT".



UNMARKED STREETS: PLACE MARKER 6" FROM EDGE OF IMAGINARY CENTERLINE OF STREET ON HYDRANT SIDE.

MARKED STREETS: PLACE MARKERS 6" FROM CENTERLINE OF PAINTED LINE TO CENTERLINE OF MARKER ON HYDRANT SIDE.

 - FIRE HYDRANT

 - BLUE MARKER

NOT TO SCALE



APPROVED BY:

CITY ENGINEER

**RICARDO SANDOVAL**

DATE

REVIEWED BY: 26

DATE OF LAST REVISION: \_\_\_\_\_

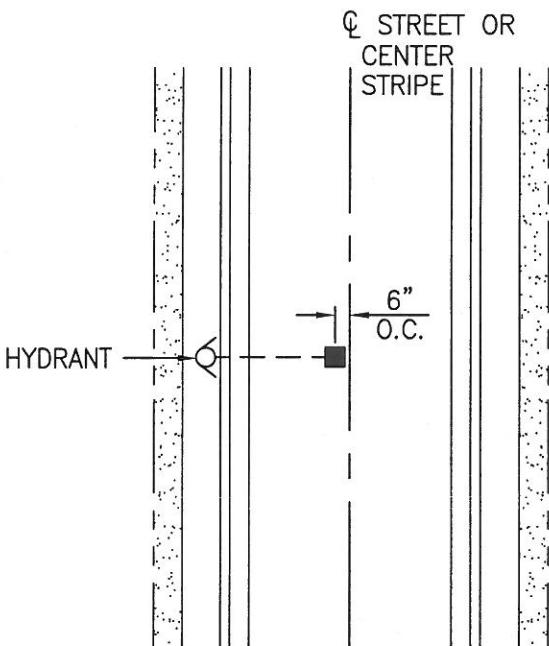
CITY OF FONTANA

**"BLUE DOT"  
MARKER PLACEMENT**

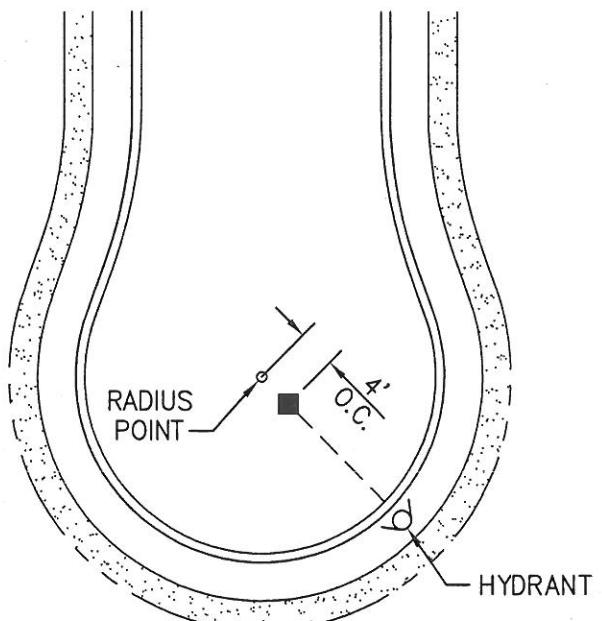
07/10/06

STD. PLAN NO. 6001

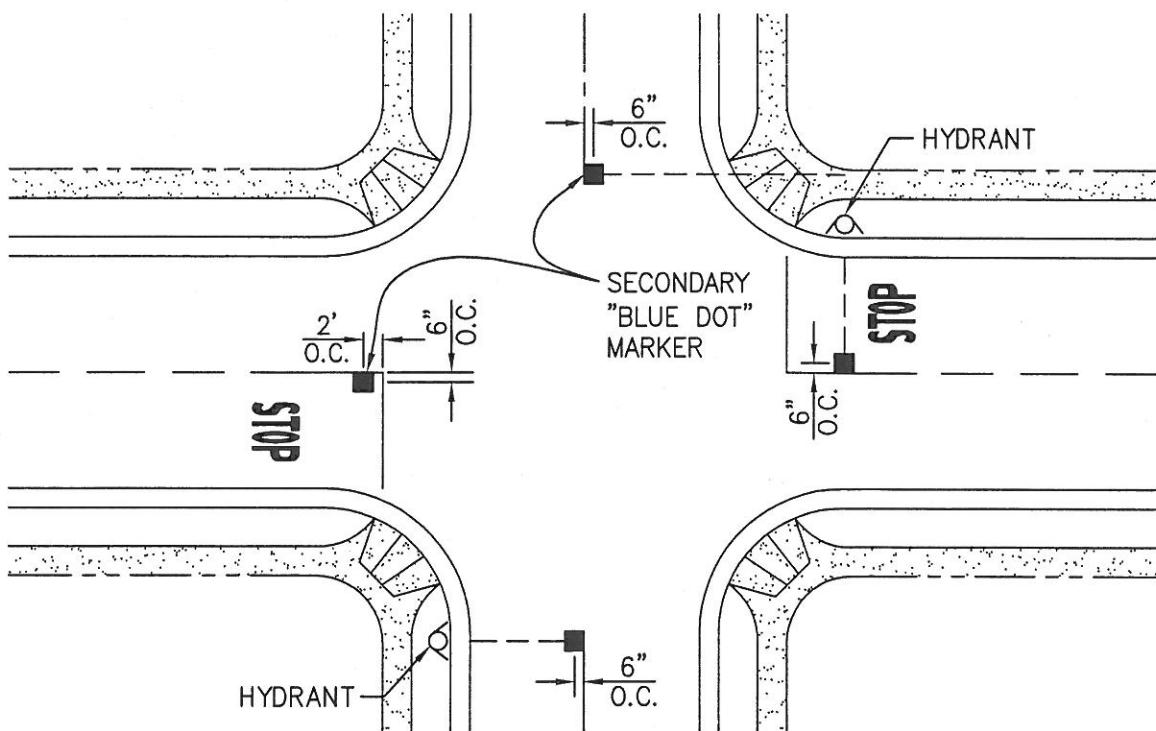
SHT 1 OF 4



TWO LANE STREET



CUL-DE-SAC



TWO LANE STREET AT INTERSECTION

NOTE: FOR NOTES REGARDING "BLUE DOT" MARKER PLACEMENT, SEE STD. PLAN 702-0

NOT TO SCALE



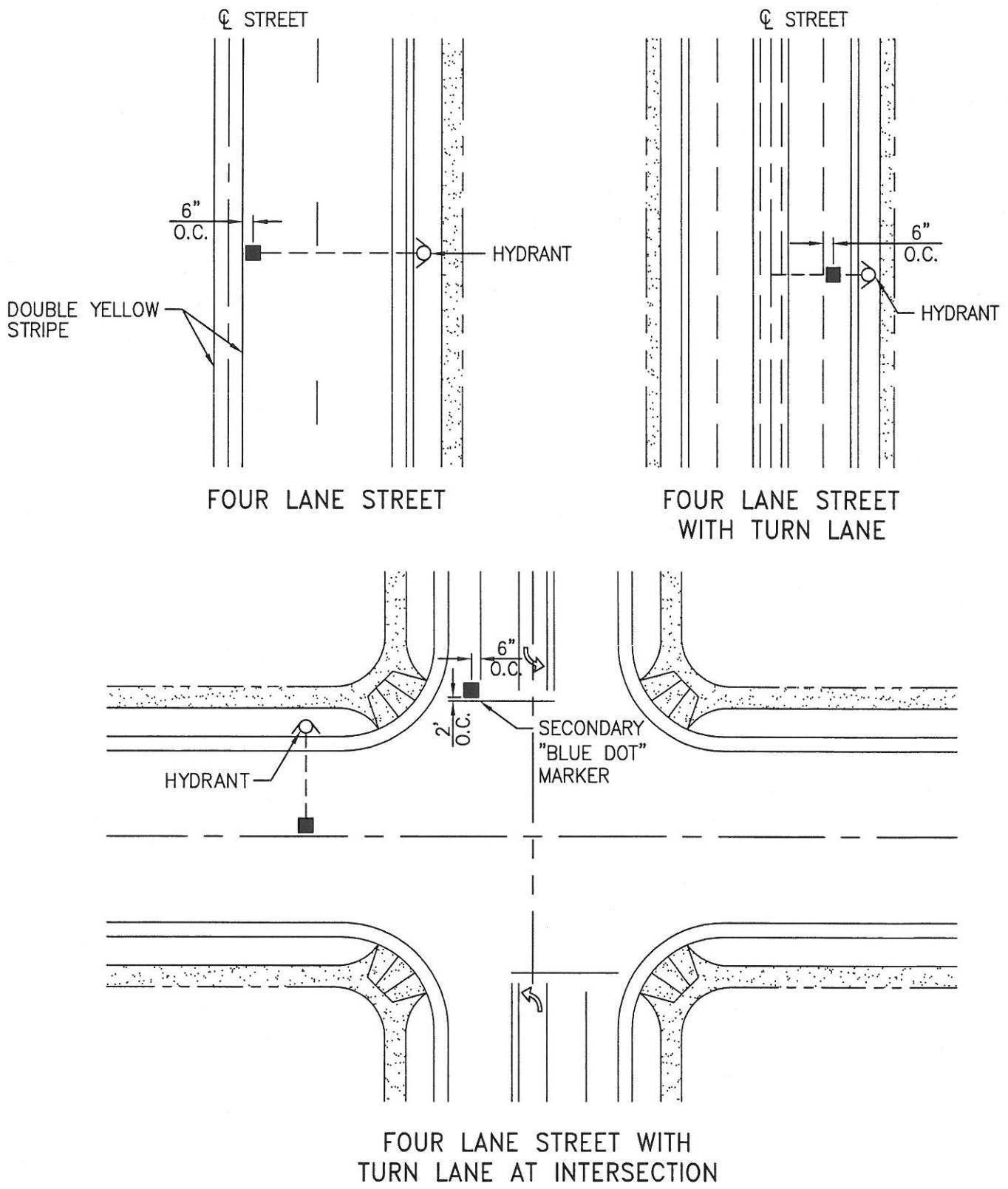
APPROVED BY:  
*Ricardo Sandoval* 10-18-06  
CITY ENGINEER  
**RICARDO SANDOVAL**  
DATE  
REVIEWED BY: DS  
DATE OF LAST REVISION: \_\_\_\_\_

CITY OF FONTANA

"BLUE DOT"  
MARKER PLACEMENT

07/10/06

STD. PLAN NO. 6001 SHT 2 OF 4



NOTE: FOR NOTES REGARDING "BLUE DOT" MARKER PLACEMENT, SEE STD. PLAN 702-0

NOT TO SCALE



APPROVED BY:

DATE

CITY ENGINEER  
**RICARDO SANDOVAL**

REVIEWED BY: RG

DATE OF LAST REVISION: \_\_\_\_\_

CITY OF FONTANA

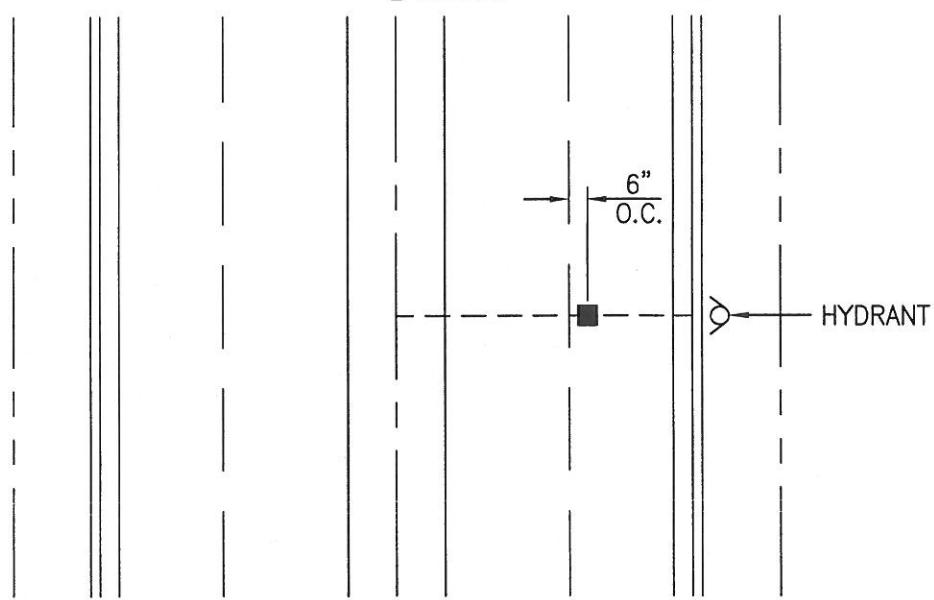
"BLUE DOT"  
MARKER PLACEMENT

07/10/06

STD. PLAN NO. 6001

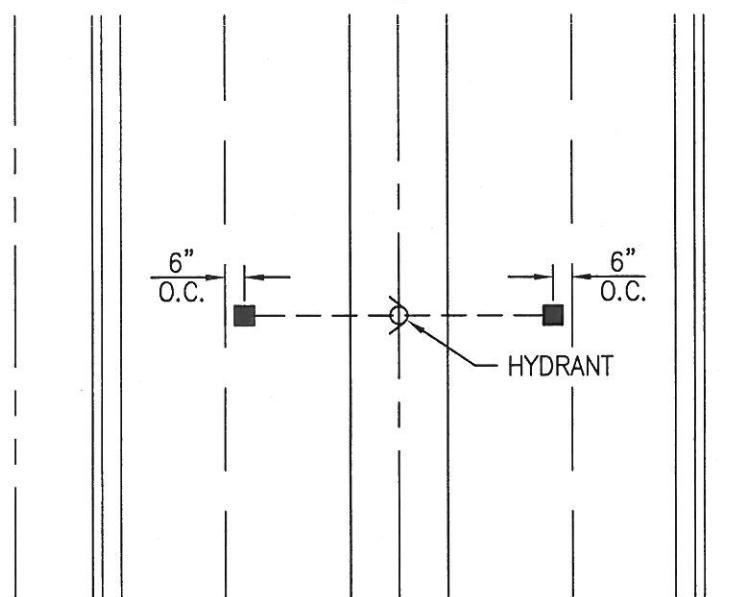
SHT 3 OF 4

C STREET



CASE I  
RAISED MEDIAN  
(HYDRANT IN PARKWAY)

C STREET



CASE II  
RAISED MEDIAN  
(HYDRANT IN MEDIAN)

NOTE: FOR NOTES REGARDING "BLUE DOT" MARKER PLACEMENT, SEE STD. PLAN 702-0

NOT TO SCALE



APPROVED BY:

CITY ENGINEER

**RICARDO SANDOVAL**

REVIEWED BY: DG

DATE OF LAST REVISION: \_\_\_\_\_

CITY OF FONTANA

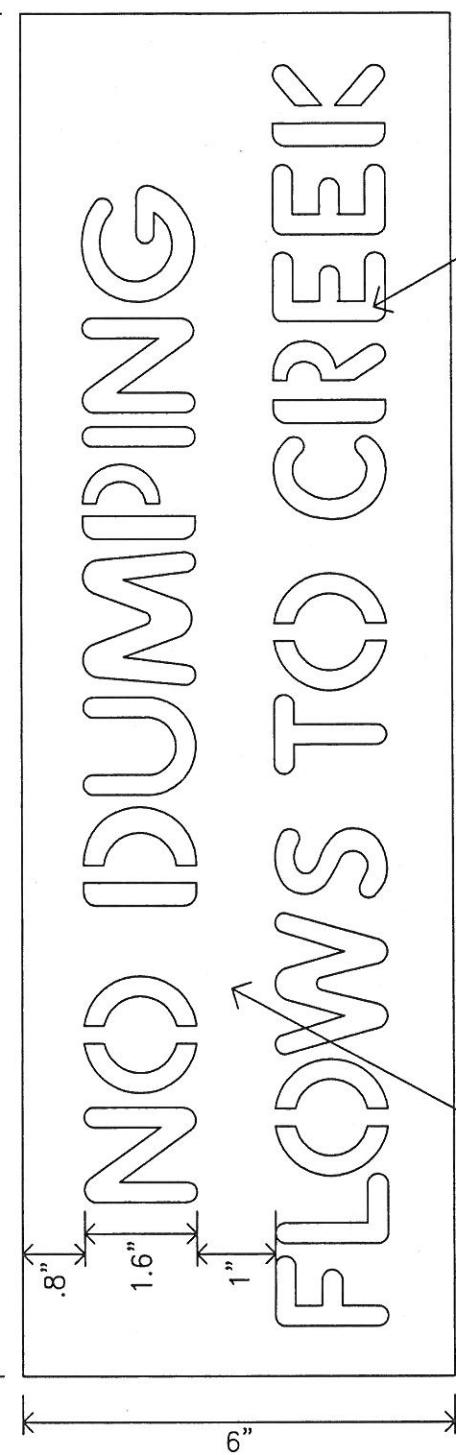
"BLUE DOT"  
MARKER PLACEMENT

07/10/06

STD. PLAN NO. 6001

SHT 4 OF 4

16"



OPEN AREAS TO  
ALLOW CONCRETE  
TO SHOW THROUGH

PLACEMENT: THERMOPLASTIC SIGNAGE IS TO BE INSTALLED ON THE TOP OF THE CURB APPROXIMATELY 1/2 INCH BEHIND THE CURB FACE. IT SHOULD BE PLACED LATERALLY CENTERED OVER THE INLET STRUCTURE.

NOTE: SEE PAGE 2 OF 2 FOR MATERIAL SPECIFICATIONS.

NOT TO SCALE



APPROVED BY:

  
CITY ENGINEER  
**RICARDO SANDOVAL**

DATE

REVIEWED BY: 

DATE OF LAST REVISION: \_\_\_\_\_

CITY OF FONTANA

STORM DRAIN  
INLET SIGNAGE

07/10/06

STD. PLAN NO. 6002

SHT 1 OF 2

## STORM DRAIN INLET EDUCATION SIGNAGE

USE: A DURABLE, HIGH SKID RESISTANT, REFLECTIVE PAVEMENT SIGNAGE MATERIAL TO BE ON STORM DRAIN INLETS.

### REQUIREMENTS:

1. THE MARKINGS MUST BE A RESILIENT BLUE THERMOPLASTIC, WHEREIN EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS OF 7 (MOHS SCALE). THE MARKINGS MUST BE RESISTANT TO THE DETRIMENTAL EFFECTS OF MOTOR FUELS, LUBRICANTS, HYDRAULIC FLUIDS, ETC. SIGNAGE MUST BE CAPABLE OF BEING AFFIXED TO BITUMINOUS AND/OR PORTLAND CEMENT CONCRETE PAVEMENTS BY THE USE OF THE NORMAL HEAT OF A PROPANE TORCH.
2. THE MARKINGS MUST BE CAPABLE OF CONFORMING TO PAVEMENT CONTOURS, BREAKS AND FAULTS THROUGH THE ACTION OF TRAFFIC AT NORMAL PAVEMENT TEMPERATURES. THE SIGNAGE SHALL HAVE RESEALING CHARACTERISTICS SUCH THAT IT IS CAPABLE OF FUSING WITH ITSELF AND PREVIOUSLY APPLIED THERMOPLASTIC WHEN HEATED WITH A TORCH.
3. THE MARKINGS MUST BE ABLE TO BE APPLIED IN TEMPERATURES DOWN TO 32°F WITHOUT ANY SPECIAL STORAGE, PREHEATING OR TREATMENT OF THE MATERIAL BEFORE APPLICATION.

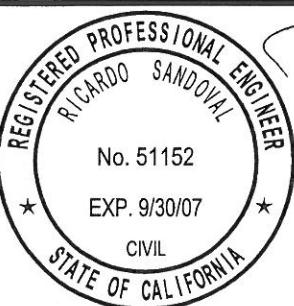
### MATERIAL:

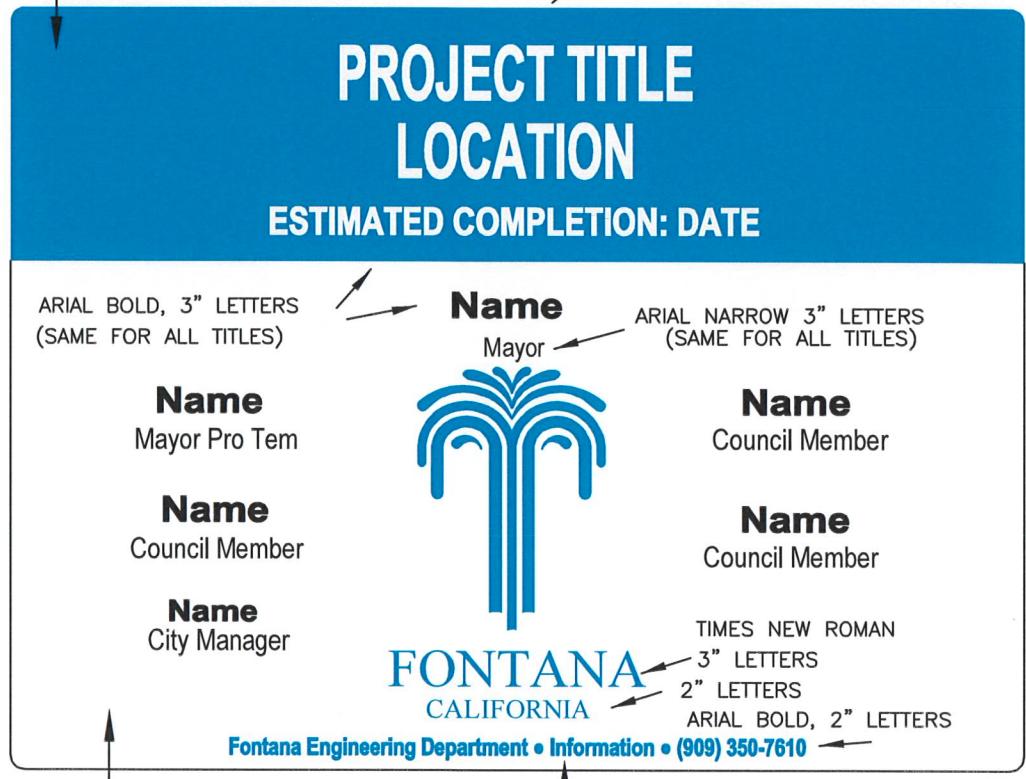
1. MUST BE COMPOSED OF AN ESTER MODIFIED ROSIN RESISTANT TO DEGRADATION BY MOTOR FUELS, LUBRICANTS ETC. IN CONJUNCTION WITH AGGREGATES, PIGMENTS, BINDERS, ABRASIVES, AND GLASS BEADS WHICH HAVE BEEN FACTORY PRODUCED AS A FINISHED PRODUCT, AND MEETS THE REQUIREMENTS OF THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. GRADED GLASS BEADS:  
THE MATERIAL MUST CONTAIN A MINIMUM OF THIRTY PERCENT (30%) INTERMIXED GRADED GLASS BEADS BY WEIGHT. THE INTERMIXED BEADS SHALL BE CLEAR AND TRANSPARENT. NOT MORE THAN TWENTY PERCENT (20%) CONSISTS OF IRREGULAR FUSED SPHEROIDS, OR SILICA. THE INDEX OF REFRACTION SHALL NOT BE LESS THAN 1.50. THE MATERIAL MUST HAVE FACTORY APPLIED COATED SURFACE BEADS AND ABRASIVES IN ADDITION TO THE INTERMIXED BEADS AT A RATE OF 1/2LB, ( $\pm 20\%$ ) PER 11 SQ. FT. THE SURFACE BEADS AND ABRASIVES MUST BE APPLIED SO THAT EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS OF 7 (MOHS SCALE).
3. PIGMENTS:  
BLUE: SUFFICIENT PIGMENT IS TO BE USED TO ENSURE A COLOR SIMILAR TO FEDERAL HIGHWAY BLUE, AS PER FEDERAL STANDARD.
4. HEATING INDICATORS: THE TOP SURFACE OF THE MATERIAL (SAME SIDE AS THE FACTORY APPLIED SURFACE BEADS) SHALL HAVE REGULARLY SPACED INDENTS. THESE INDENTS SHALL ACT AS A VISUAL CUE DURING APPLICATION THAT THE MATERIAL HAS REACHED A MOLTEN STATE SO SATISFACTORY ADHESION AND PROPER BEAD EMBEDMENT HAS BEEN ACHIEVED AND A POST-APPLICATION VISUAL CUE THAT THE INSTALLATION PROCEDURES HAVE BEEN FOLLOWED.
5. SKID RESISTANCE: THE SURFACE OF THE PREFORMED REFLECTIVE MARKING MATERIAL, WHEREIN EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS OF 1 (MOHS SCALE), SHALL UPON APPLICATION PROVIDE A MINIMUM SKID RESISTANCE VALUE OF 60 BPN WHEN TESTED ACCORDING TO ASTM: E303.
6. THICKNESS: THE MATERIAL MUST BE SUPPLIED AT A MINIMUM, THICKNESS OF 90 MILS OR 125 MILS.
7. REFLECTIVITY: THE PERFORMED REFLECTIVE MARKING MATERIALS UPON APPLICATION SHALL EXHIBIT ADEQUATE NIGHTTIME REFLECTIVITY.
8. ENVIRONMENTAL RESISTANCE: THE MATERIAL MUST BE RESISTANT TO DETERIORATION DUE TO EXPOSURE TO SUNLIGHT, WATER, SALT OR ADVERSE WEATHER CONDITIONS AND IMPERVIOUS TO OIL AND GASOLINE.
9. ABRASIVES: THE MATERIAL MUST HAVE FACTORY APPLIED SURFACE ABRASIVES, WHEREIN EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS 7 (MOHS SCALE).
10. THE PREFORMED SIGNAGE SHALL MEET STATE SPECIFICATIONS AND BE APPROVED FOR USE BY THE CITY OF FONTANA.

TECHNICAL SERVICES: THE SUCCESSFUL BIDDER SHALL PROVIDE TECHNICAL SERVICES AS REQUIRED.

PACKAGING: THE PREFORMED SIGNAGE SHALL BE PLACED IN PROTECTIVE FILM WITH CARDBOARD STIFFENERS WHERE NECESSARY TO PREVENT DAMAGE IN TRANSIT. THE CARTONS IN WHICH PACKED SHALL BE NON-RETURNABLE AND SHALL NOT EXCEED 40" IN LENGTH AND 25" IN WIDTH, AND BE LABELED FOR EASE OF IDENTIFICATION. THE WEIGHT OF THE INDIVIDUAL CARTON MUST NOT EXCEED SEVENTY (70) POUNDS. A PROTECTIVE FILM MUST BE APPLIED AROUND THE BOX IN ORDER TO PROTECT THE MATERIAL FROM RAIN OR PREMATURE AGING.

APPLICATION: THE MATERIALS SHALL BE APPLIED USING THE PROPANE TORCH METHOD RECOMMENDED BY THE MANUFACTURER. THE MATERIAL MUST BE ABLE TO BE APPLIED AT AMBIENT AND ROAD TEMPERATURES DOWN TO 32°F WITHOUT ANY PREHEATING OF THE PAVEMENT TO A SPECIFIC TEMPERATURE. THE MATERIAL MUST BE ABLE TO BE APPLIED WITHOUT THE USE OF A THERMOMETER. THE PAVEMENT SHALL BE CLEAN, DRY AND FREE OF DEBRIS. SUPPLIER MUST ENCLOSE APPLICATION INSTRUCTIONS WITH EACH BOX/PACKAGE.

 <p>APPROVED BY: CITY ENGINEER <b>RICARDO SANDOVAL</b> REVIEWED BY: <i>[Signature]</i> DATE OF LAST REVISION: _____</p>	<p>10.18.06</p> <p>DATE <b>RICARDO SANDOVAL</b></p>	<p><b>CITY OF FONTANA</b> <b>STORM DRAIN</b> <b>INLET SIGNAGE</b></p>
		07/10/06
		STD. PLAN NO. <b>6002</b> SHT <b>2 OF 2</b>



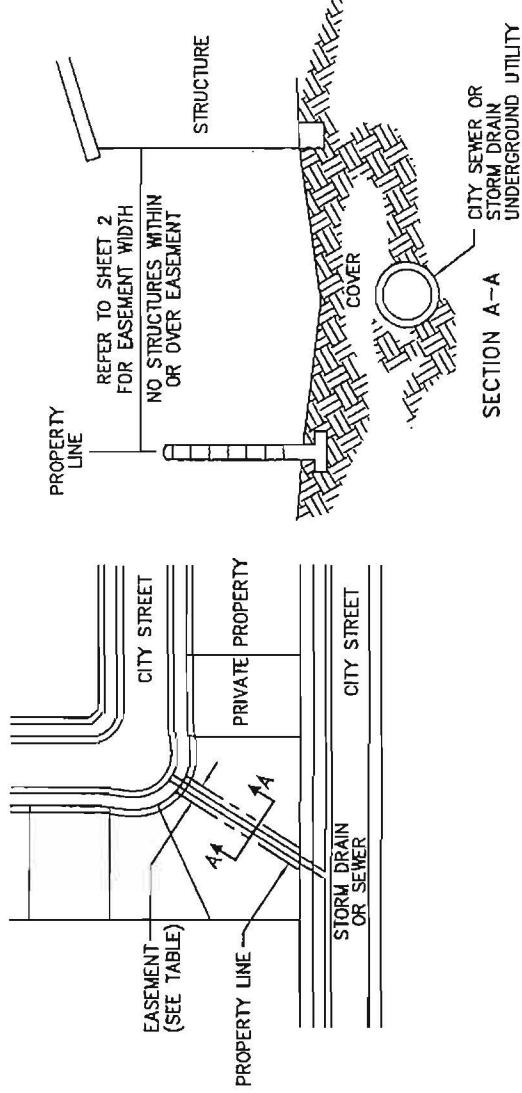
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	APPROVED BY:  CITY ENGINEER GIA LAM KIM DRAWN BY: <u>JP/DT</u>	CITY OF FONTANA  PROJECT SIGN LEGEND	
		11/1/22	DATE
		STD. PLAN NO. 6003	DWG. 1/2

## PROJECT SIGN NOTES

1. CITY SHALL PROVIDE LEGEND INFORMATION INCLUDING PROJECT TITLE, LOCATION, COLORS AND NAMES OF CITY OFFICIALS TO BE LISTED ON SIGN(S).
2. CONTRACTOR SHALL PROVIDE 'PROOF' FROM VENDOR FOR CITY APPROVAL PRIOR TO MANUFACTURING.
3. SIGN MATERIAL SHALL BE 1" – 2" THICK MDO OR CDX PLYWOOD.
4. AN ANTI-GRAFFITI FILM/COATING SHALL BE APPLIED TO THE SIGN(S). FILM/COATING SHALL BE 3M 1160 OR APPROVED EQUAL. CONTRACTOR SHALL MAINTAIN SIGN(S) DURING THE PROJECT AND SHALL PROVIDE A REPLACEMENT IF GRAFFITI OR ANY OTHER EVENT DAMAGES THE SIGN(S) BEYOND REPAIR.
5. SIGN(S) SHALL BE SECURELY INSTALLED WITH  $\frac{1}{2}$ " THRU LAG BOLTS WITH WASHERS ONTO (2) 6" X 6" POSTS. LAG BOLTS SHALL BE SPACED EQUIDISTANTLY. LOCATION OF LAG BOLTS SHALL NOT BE ON ANY NAMES OR TITLES.
6. BASE OF SIGN(S) SHALL BE AT 96" ABOVE GRADE.
7. SIGN(S) SHALL BE ANGLE-BRACED AT APPROXIMATELY 45 DEGREES IN BOTH DIRECTIONS WITH 2" X 6" BRACING.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFE REMOVAL AND DISPOSAL OF THE SIGN(S) AT THE END OF THE PROJECT.
9. SIGN SIZE IS 96" X 72".

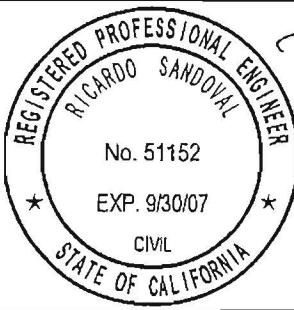
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		11/7/22	PROJECT SIGN NOTES
	CITY ENGINEER GIA LAM KIM	DATE	
DRAWN BY: JP/DT		STD. PLAN NO. 6003	DWG. 2/2



NOTES:

1. EASEMENT ON PRIVATE PROPERTY ARE ALLOWED ONLY BY APPROVAL OF THE CITY ENGINEER.
2. THE FULL EASEMENT SHALL BE LOCATED ON ONE SIDE OF THE PROPERTY LINE.
3. NO PRIVATE STRUCTURES OR OVERHEAD OBSTRUCTIONS SHALL BE LOCATED WITHIN THE EASEMENT.
4. NO TREES SHALL BE LOCATED WITHIN THE EASEMENT. LANDSCAPE AND OTHER IMPROVEMENTS SHALL BE SUBJECT TO REMOVAL AS NECESSARY FOR UTILITY MAINTENANCE.
5. FOR RESIDENTIAL PROPERTIES, MANHOLES ARE NOT TO BE LOCATED WITHIN THE EASEMENT AREA. FOR NON-RESIDENTIAL PROPERTIES, WHEN MANHOLES MUST BE LOCATED IN THE EASEMENT AREA, A 20' MINIMUM WIDTH ALL WEATHER SURFACE FOR VEHICULAR ACCESS MUST BE PROVIDED.
6. WHEN STORM WATER SUMP CONDITIONS EXIST, SECONDARY OVERFLOW MAY BE REQUIRED AS DETERMINED BY THE CITY ENGINEER.
7. NO DIRECT SEWER OR STORM DRAIN CONNECTIONS ARE ALLOWED IN EASEMENTS ON PRIVATE PROPERTY.

NOT TO SCALE



APPROVED BY:

CITY ENGINEER  
**RICARDO SANDOVAL**

REVIEWED BY: DG

DATE OF LAST REVISION: \_\_\_\_\_

CITY OF FONTANA

**SEWER AND STORM DRAIN  
EASEMENT WIDTHS**

07/10/06

STD. PLAN NO. **6004**

SHT **1** OF **2**

**MINIMUM SEWER AND STORM DRAIN EASEMENT WIDTHS IN FEET**

CONDUIT WIDTH INCHES	DEPTH OF COVER IN FEET																			
	2.5	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	25
UP TO 18	15	15	15	15	15	20	20	20	20	20	25	25	30	30	30	35	35	35	35	35
21	15	15	15	15	15	20	20	20	20	25	25	30	30	30	35	35	35	35	35	40
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108	35	35	40	40	40	45	45	45	45	45	45	45	45	45	45	45	45	45	45	50
114	35	40	40	40	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	50
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132	40	40	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	50
138	40	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	50
144	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	50

1. WIDTHS ABOVE ARE MINIMUM, EXCEPTIONS ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
2. FOR CONCRETE BOX STRUCTURES, INSIDE WIDTH OF BOX DETERMINES EASEMENT WIDTH REQUIREMENTS.
3. THE MINIMUM WIDTH OF COMBINED SEWER AND STORM DRAIN EASEMENTS IS 20' OR AS OTHERWISE APPROVED BY THE CITY ENGINEER.



APPROVED BY:  
**Ricardo Sandoval**  
 CITY ENGINEER  
**RICARDO SANDOVAL**

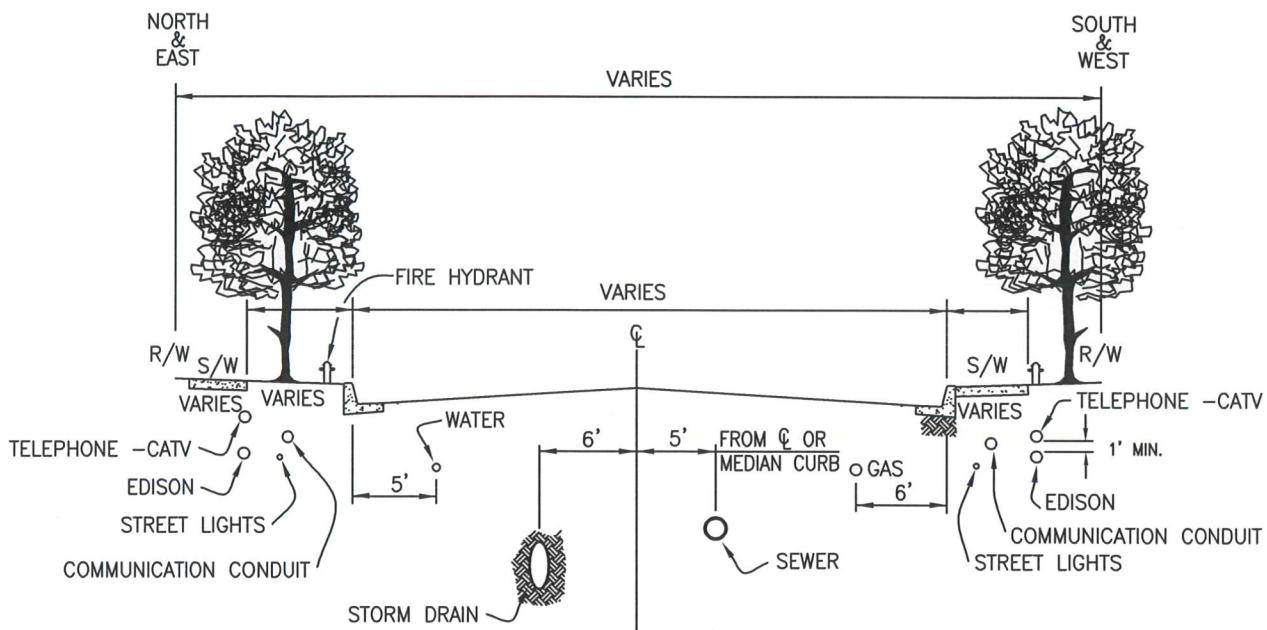
10.18.06  
 DATE

CITY OF FONTANA

SEWER AND STORM DRAIN  
 EASEMENT WIDTHS

REVIEWED BY: *[Signature]*  
 DATE OF LAST REVISION: \_\_\_\_\_

STD. PLAN NO. **6004** SHT 2 OF 2  
 07/10/06

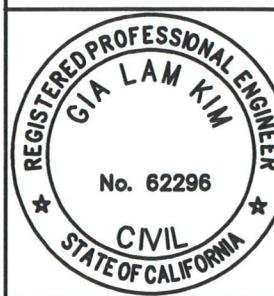


RECOMMENDED UTILITY  
INSTALLATION SCHEDULE

1. STORM DRAIN	4. CURB & GUTTER
2. SEWER	5. WATER
3. POWER & TELEPHONE	6. GAS
	7. PAVING

NOTES:

1. WHERE ULTIMATE STREET IMPROVEMENTS ARE TO BE CONSTRUCTED, MINIMUM COVER OF UTILITY LINE MAY BE VARIED TO FACILITATE INSTALLATION.
2. THE UTILITY COMPANIES SHALL MAKE EVERY EFFORT TO LOCATE THEIR FACILITIES IN THE RECOMMENDED LOCATIONS, PARTICULARLY IN NEW SUBDIVISIONS.
3. EDISON AND TELEPHONE MAY USE A COMMON TRENCH. ALTERNATE LOCATION MAY BE EITHER THE EDISON POSITION OR THE TELEPHONE POSITION.
4. THE CENTER 24' OF THE STREET SHALL BE RESERVED FOR SEWER AND STORM DRAIN INSTALLATIONS.
5. SURFACE OF VAULTS OR MANHOLES MUST MATCH PAVEMENT AND PARKWAY GRADES.
6. REPAIR OF TRENCHES AND REPAVING SHALL BE IN ACCORDANCE WITH CITY DESIGN STANDARDS.
7. MANHOLE COVERS AND PULLBOXES SHALL BE PLACED EITHER ENTIRELY WITHIN SIDEWALK OR WITHIN THE PARKWAY. THERE SHALL BE NO OVERLAP.
8. UNDERGROUND SERVICE ALERT (USA) MARKINGS SHALL BE REMOVED WITH PRESSURE WASH OR AS DIRECTED BY THE CITY ENGINEER.
9. ALL UTILITY CROSSINGS SHALL HAVE A MINIMUM OF 1' SEPARATION FROM OTHER UTILITIES. IF A 1' CLEARANCE IS NOT POSSIBLE, PROTECTION SHALL BE PROVIDED AS APPROVED BY THE CITY ENGINEER.



APPROVED BY:

*JK* *C* *2-6-24*  
CITY ENGINEER  
GIA LAM KIM

DRAWN BY: DT

CITY OF FONTANA

UNDERGROUND  
UTILITY  
LOCATIONS

STD. PLAN NO. 6005 DWG. 1/1