

## CITY OF GARDEN GROVE PUBLIC WORKS STANDARD PLANS

#### SERIES B-100 STREET AND HIGHWAY

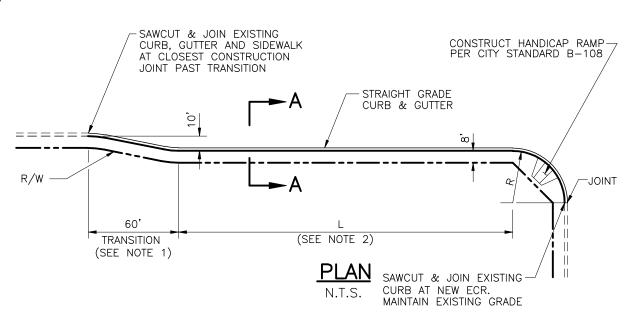
- B 129RIGHT TURN POCKET
- B-130 MID-BLOCK BUS TURNOUT
- B-131 CORNER BUS TURNOUT
- B-132 PARABOLIC CURB TRANSITION
- B-133 CONCRETE PAVER DETAIL
- B-134 STREET RESURFACING AND TRENCH BACKFILL DETAIL
- B-135 SIGN DETAIL FOR CONSTRUCTION
- B-136 SIGN DETAIL FOR CITY PROJECT

#### SERIES B-200 STORM DRAIN

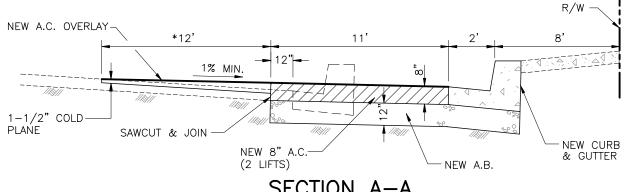
- B-201 CATCH BASIN TYPE OS (CURB OPENING SMALL)
- B-202 CATCH BASIN TYPE OL (CURB OPENING LARGE)
- B-203 MISCELLANEOUS CATCH BASIN DETAILS
- B-204 MISCELLANEOUS CATCH BASIN DETAILS
- B-205A LOCAL DEPRESSION (SUMP CONDITION)
- B-205B LOCAL DEPRESSION (FLOW-BY CONDITION)
- B-206 STORM DRAIN MANHOLE
- B-207 STORM DRAIN MANHOLE (SHALLOW DEPTH)
- B-208 CONCRETE COLLAR FOR PIPES 18" THROUGH 66" DIAMETER

#### SERIES B-300 TRAFFIC AND LIGHTING

- B-301 STREET SIGN FOR PUBLIC STREETS
- B-302 STREET SIGN FOR PRIVATE STREETS
- B-303 ROADWAY STRIPING DETAILS
- B-305 TYPICAL TRAFFIC SIGN INSTALLATION
- B-306 STANDARD BARRICADE
- B-307 STEEL DAVIT STANDARDS
- B-308 PRIVATE PROPERTY TOW AWAY SIGN
- B-309 STREET NAME SIGN MOUNTING BRACKET (FLAT OR EXTRUDED)
- B-310 STREET NAME SIGN POLE DETAIL
- B-311 PARKING LOT LAYOUT
- B-312 PARKING & QUEUING FOR DRIVE THROUGH RESTAURANTS

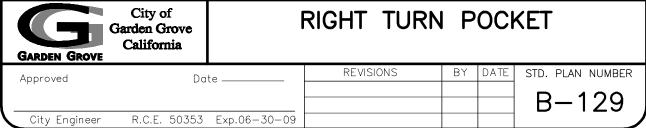


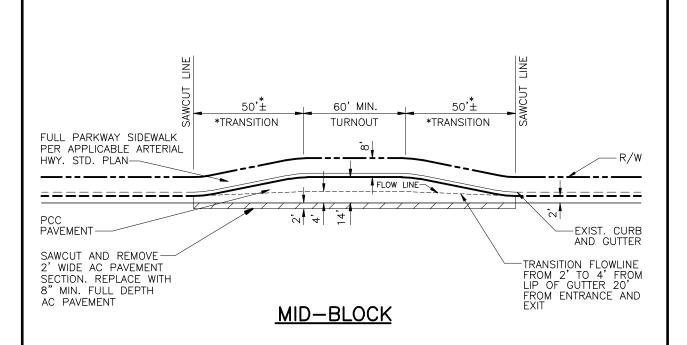
- 1. PROVIDE REVERSE TAPER PER CITY STD. PLAN B-132.
- 2. "L" DIMENSION WILL BE AS SPECIFIED BY CITY ENGINEER WITH 100 FEET AS MIN. LENGTH.
- 3. CONSTRUCTION PLAN AND TOPO SURVEY SHALL BE PROVIDED PRIOR TO APPROVAL BY CITY ENGINEER.
- 4. R=35' FOR ARTERIAL STREET; R=25' FOR LOCAL STREETS.
- 5. CONSTRUCT NEW CURB & GUTTER PER CITY STD. PLAN B-113.
- 6. SURVEY REFERENCE POINTS TO BE RESET BY LICENSED SURVEYOR AND TIE NOTES OR BENCH MARK ELEVATIONS TO BE SUBMITTED TO CITY SURVEYOR.



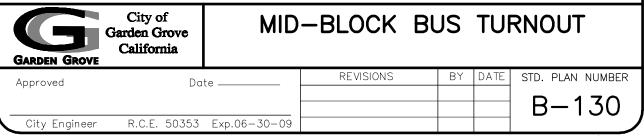
SECTION A-A

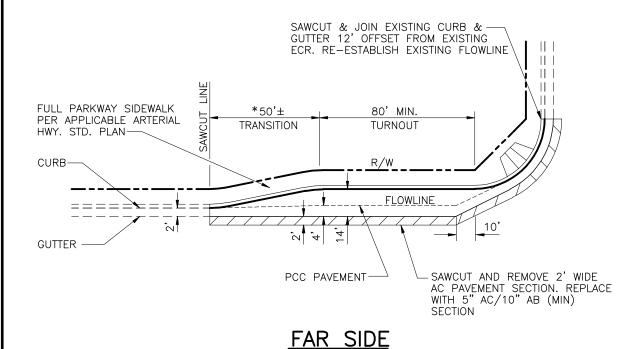
\* ACTUAL LOCATION OF JOIN TO BE DETERMINED BY CITY. SUBMIT CROSS SECTIONS AS REQUIRED BY CITY ENGINEER.



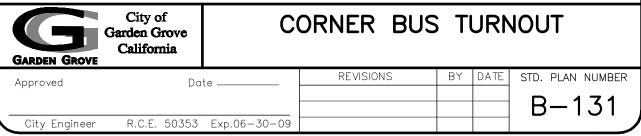


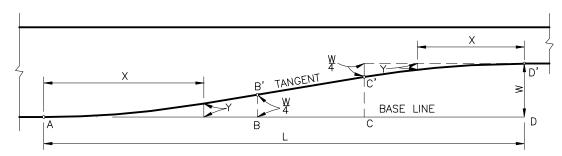
- \*1. PROVIDE 50' RADIUS REVERSE CURVE AS REQUIRED BY CITY.
- 2. P.C.C. PAVEMENT THICKNESS SHALL BE 9" OVER 12" CLASS II 3/4" AGG. BASE
- 3. BUS SHELTERS SHALL BE SET BACK FROM THE FACE OF THE CURB A MINIMUM CLEAR DISTANCE OF FOUR (4) FEET FOR PEDESTRIAN TRAVEL WAY.
- 4. CURB SHALL BE POURED MONOLITHIC WITH P.C.C. PAVEMENT.
- 5. MODIFICATIONS OF THIS STANDARD SHALL BE REVIEWED FOR ACCEPTABILITY BY THE CITY TRAFFIC ENGINEER.
- 6. CONSTRUCT 3" x 3/4" FELT CONTROL JOINTS AT 15' INTERVALS.
- 7. CATCH BASINS SHALL NOT BE LOCATED IN BUS TURNOUTS IF POSSIBLE.
- 8. DRIVEWAYS SHALL NOT BE LOCATED IN BUS TURNOUTS.
- 9. CURB HEIGHTS MAY VARY TO MATCH EXIST. GRADE BEHIND CURB; 5" MIN. 8" MAX.
- 10. CONSTRUCTION PLAN AND TOPO SURVEY SHALL BE PROVIDED PRIOR TO APPROVAL BY CITY ENGINEER.
- 11. CONCRETE SHALL BE 7 SACK MIX WITH 1" AGG. PER SECTION 90-3.04 OF CALTRANS SPECS.
- 12. MAINTAIN 2% MAX. CROSS FALL ON CONCRETE BUS PAD.





- \*1. PROVIDE 50' RADIUS REVERSE CURVE AT CURB FACE.
  - 2. P.C.C. PAVEMENT THICKNESS SHALL BE 9" OVER 12" CLASS II 3/4" AGG. BASE.
  - 3. BUS SHELTERS SHALL BE SET BACK FROM THE FACE OF THE CURB A MINIMUM CLEAR DISTANCE OF FOUR (4) FEET FOR PEDESTRIAN TRAVEL WAY.
  - 4. CURB SHALL BE POURED MONOLITHIC WITH P.C.C. PAVEMENT.
  - MODIFICATIONS OF THIS STANDARD SHALL BE REVIEWED FOR ACCEPTABILITY BY THE CITY TRAFFIC ENGINEER.
  - 6. CONSTRUCT 3"  $\times$  3/4" FELT CONTROL JOINTS AT 15' INTERVALS.
  - 7. CATCH BASINS SHOULD NOT BE LOCATED IN BUS TURNOUTS IF POSSIBLE.
  - 8. DRIVEWAYS SHALL NOT BE LOCATED IN BUS TURNOUTS.
  - 9. CURB HEIGHTS MAY VARY TO MATCH EXIST. GRADE BEHIND CURB; 5" MIN. 8" MAX.
- 10. CONSTRUCTION PLAN AND TOPO SURVEY SHALL BE PROVIDED PRIOR TO APPROVAL BY CITY ENGINEER.
- 11. CONCRETE SHALL BE 7 SACK MIX WITH 1" AGGREGATE PER SECTION 90-3.04 CALTRANS SPECS.
- 12. MAINTAIN 2% MAX. CROSS FALL ON BUS PAD.





W=WIDTH OF LEFT OR RIGHT TURN POCKET

L=LENGTH OF TAPER

 $AB=BC=CD=\frac{L}{3}$ 

AB' AND C'D' ARE PARABOLIC CURVES EXCEPT ON CURVED ALIGNMENTS

X=DISTANCE FROM POINT "A" ALONG BASE LINE

Y=OFFSET FROM BASE LINE

### SINGLE TURN POCKET

N.T.S.

L=90'						W=10'				
X	0,	10'	20'	30'	40'	50'	60'	70'	80'	90'
Υ	0.00'	0.28'	1.11'	2.50'	4.17'	5.83'	7.50'	8.89'	9.72'	10.00'

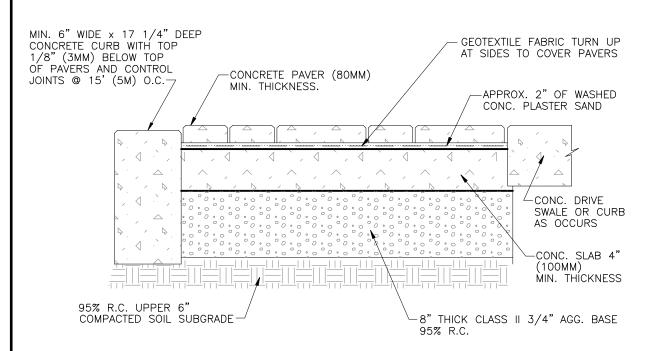
	L=60' * W=10'						
Χ	0'	10'	20'	30'	40'	50'	60'
Υ	0.00'	0.62'	2.50'	5.00'	7.50'	9.38'	10.00'

#### **NOTES:**

IN THE CASE WHEN THE BASE LINE IS CURVED THE OFFSETS ARE CALCULATED BY ASSUMING THE BASE LINE TO BE TANGENT; THEY ARE THEN APPLIED TO THE CURVED BASE LINE. AB' AND C'D' ARE NO LONGER PARABOLIC AND B'C' IS NO LONGER A TANGENT.

\* USE 60' TRANSITION WHEN INSUFFICIENT DISTANCE IS AVAILABLE FOR 90' TRANSITION. USE OF 60' TRANSITION SHALL BE APPROVED BY CITY TRAFFIC ENGINEER.

GARDEN GROVE	City of Garden Grove California		PARABOLIC CURB TRANSITION					
Approved	Date		REVISIONS		BY	DATE	STD. PLAN NUMBER	
							B-132	
City Engineer	R.C.E. 50353	Exp.06-30-09						

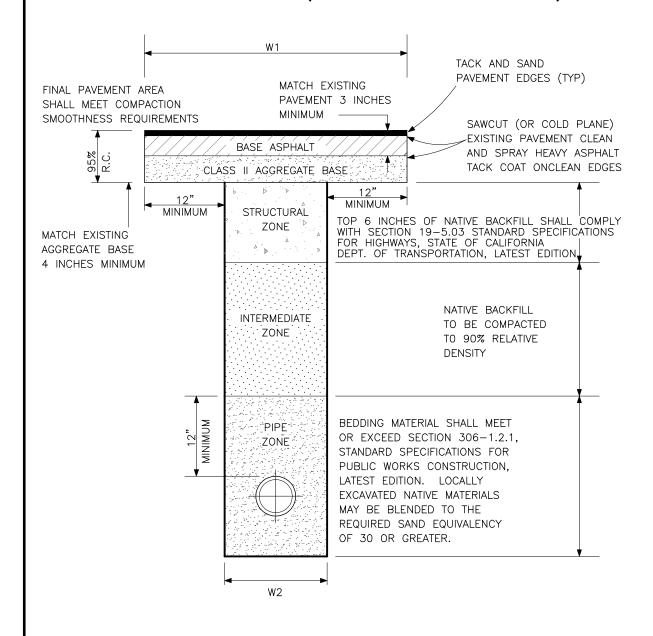


#### **CONCRETE PAVERS**

- 1. STYLE AND COLOR OF CONCRETE PAVERS SHALL BE APPROVED BY PLANNING DEPARTMENT PRIOR TO INSTALLATION.
- 2. INSPECTOR SHALL BE PRESENT DURING INSTALLATION OF PAVERS.

GARDEN GROVE	City of Garden Grove California		CONCRETE PAVER DETAIL					
Approved	Approved Date		REVISIONS	BY	DATE	STD. PLAN NUMBER		
City Engineer	R C F 50353	Exp.06-30-09				B-133		

# LONGITUDINAL AND TRANSVERSE TRENCH BACKFILL SECTION CASE A: T-CAP (AFFECTING TRAVEL LANES)

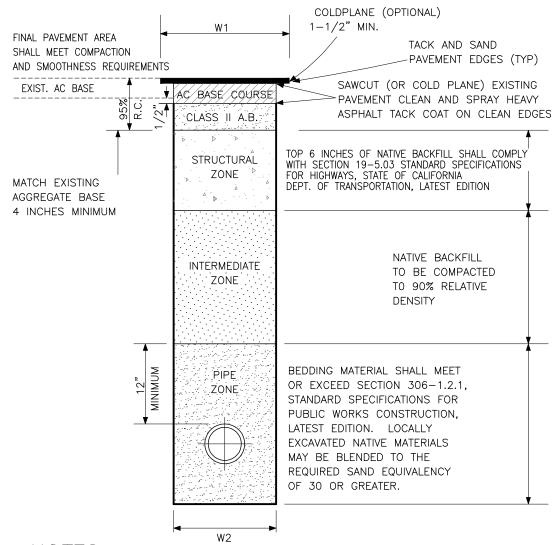




## STANDARD STREET RESURFACING & TRENCH BACKFILL DETAIL

Approved	Date	REVISIONS	BY	DATE	STD. PLAN NUMBER
City Engineer	R.C.E. 50353 Exp.06-30-09				B-134
City Engineer	K.C.E. 30333 Exp.06-30-09				SHEET 1 OF 2
	_	_			G.G./B-134A.DWG

# LONGITUDINAL TRENCH BACKFILL SECTION CASE B: VERTICAL CUT ONLY (NO AFFECT ON TRAVEL LANES)

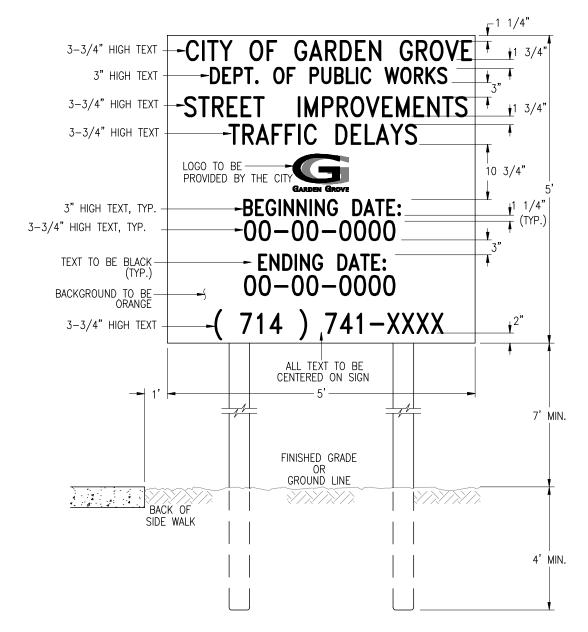


- 1. REPLACE BASE COURSE TO 1/2" BELOW EXISTING
- 2. COLD PLANE MINIMUM 1-1/2" (OPTIONAL) OR SAWCUT
- 3. TRENCHES WITHIN 3 FEET OF CURB SHALL PAVE TO LIP OF CURB
- 4. WIDTH OF CAP (W1) SUBJECT TO CITY ENGINEER APPROVAL
- 5. ALL WORK AND MATERIAL SHALL MEET OR EXCEED THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
- 6. LONGITUDINAL TRENCHES IN EXCESS OF 600 FEET MAY BE REQUIRED TO ADDITIONAL RESURFACING REQUIREMENTS DEPENDING ON STREET CONDITION AS DETERMINED BY THE CITY ENGINEER



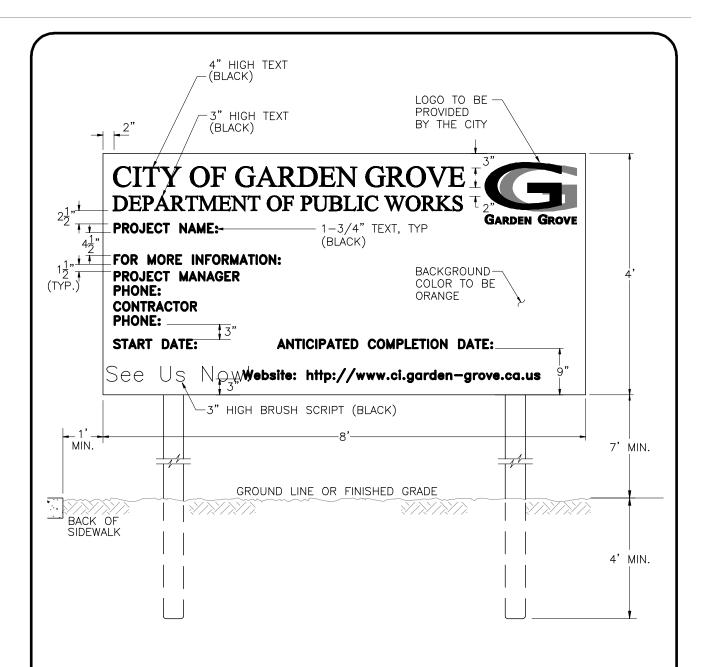
STANDA & TR	ENCH		 	 	–
		_	 1		

Approved	Date	REVISIONS	BY	DATE	STD. PLAN NUMBER	
					B - 1.34	
City Engineer	R.C.E. 50353 Exp.06-30-09				SHEET 2 OF 2	

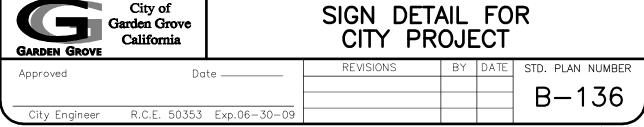


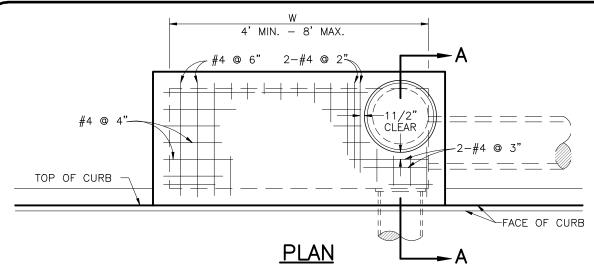
- 1. SIGN LOCATION TO BE DETERMINED IN THE FIELD BY CITY INSPECTOR.
- 2. (2) 4" x 4" POSTS 16' LONG, EMBEDDED 4' INTO GROUND.

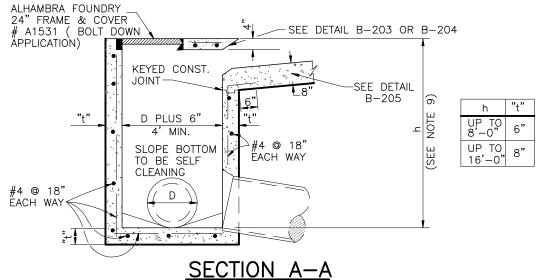
GARDEN GROVE	City of Garden Grove California		SIGN DE CONSTR			
Approved	Dat	e	REVISIONS	BY	DATE	STD. PLAN NUMBER
City Engineer	R.C.E. 50353	Exp.06-30-09				B-135



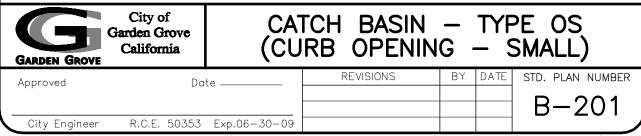
- 1. SIGN LOCATION TO BE DETERMINED IN THE FIELD BY CITY INSPECTOR.
- 2. (2) 4" x 4" POST EMBEDDED 4' INTO GROUND.

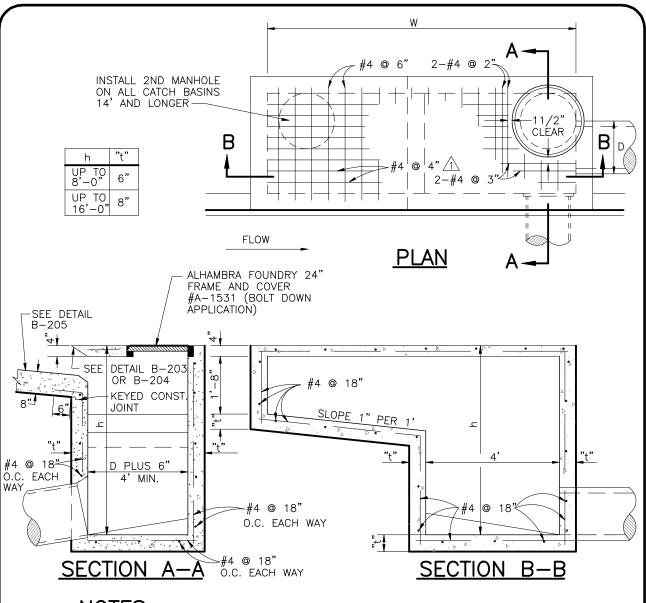




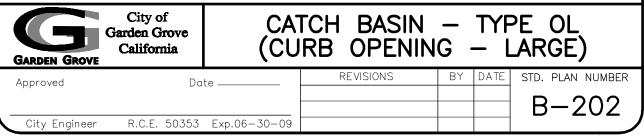


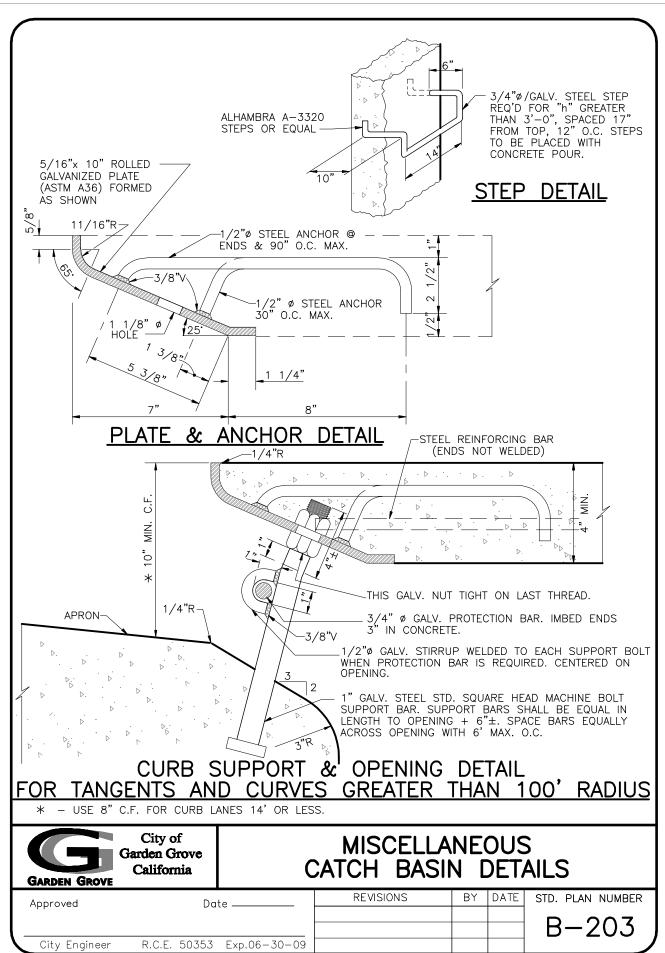
- 1. HORIZONTAL PROTECTION BAR SHALL BE USED WHEN INLET OPENING IS MORE THAN 8 INCHES. SEE STD. PLAN B-203 OR B-204 FOR DETAILS.
- 2. STEPS REQUIRED WHEN "h" IS GREATER THAN 3'-0". SEE STD. B-203.
- 3. OUTLET MAY BE MADE IN ANY DIRECTION.
- 4. PIPE INLETS AND OUTLETS SHALL BE AT BOTTOM OF BASIN UNLESS OTHERWISE SPECIFIED.
- 5. ALL EXPOSED CONCRETE SURFACES SHALL CONFORM IN GRADE, COLOR AND FINISH TO ALL ADJOINING CURB AND WALK.
- $6.~{
  m ALL}$  WALL AND BASE REINFORCING STEEL SHALL BE 11/2 INCHES CLEAR FROM INSIDE OR OUTSIDE FACE OF STRUCTURE.
- 7. WHEN "W" EXCEEDS 8 FEET, USE STD. PLAN B-202.
- 8. ALL CONCRETE SHALL BE CLASS "A" (6 SACK WITH 3/4" AGGREGATE).
- 9. "h" SHALL BE 4' MIN. FOR MAINTENANCE PURPOSES IF POSSIBLE.
- 10. SLOPE BOTTOM OF CATCH BASIN TOWARDS OUTLET A MIN. OF 1" PER FOOT FROM ALL SIDES.

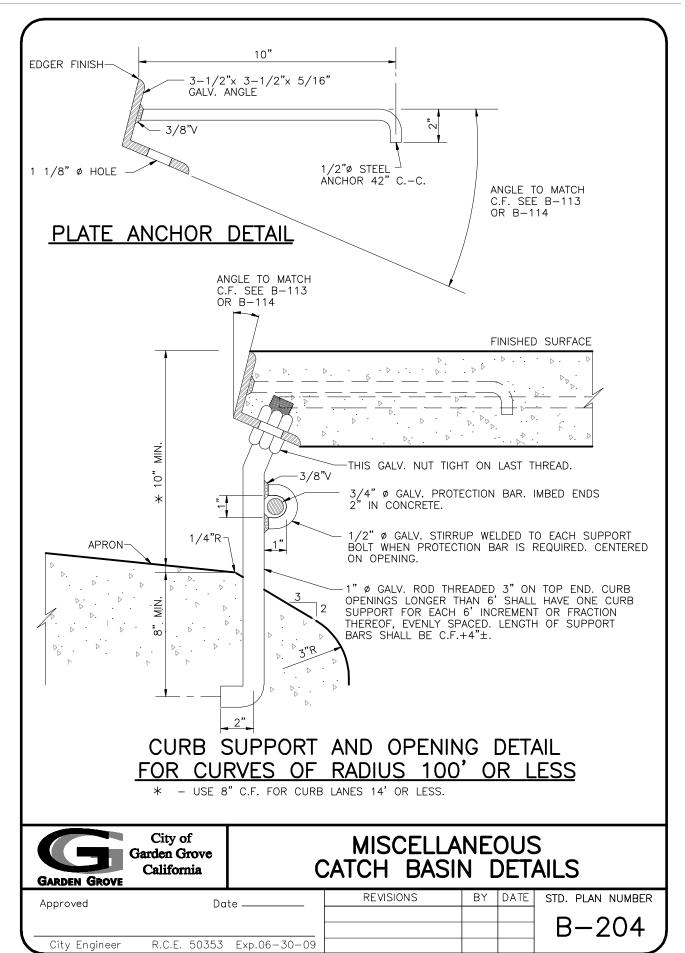


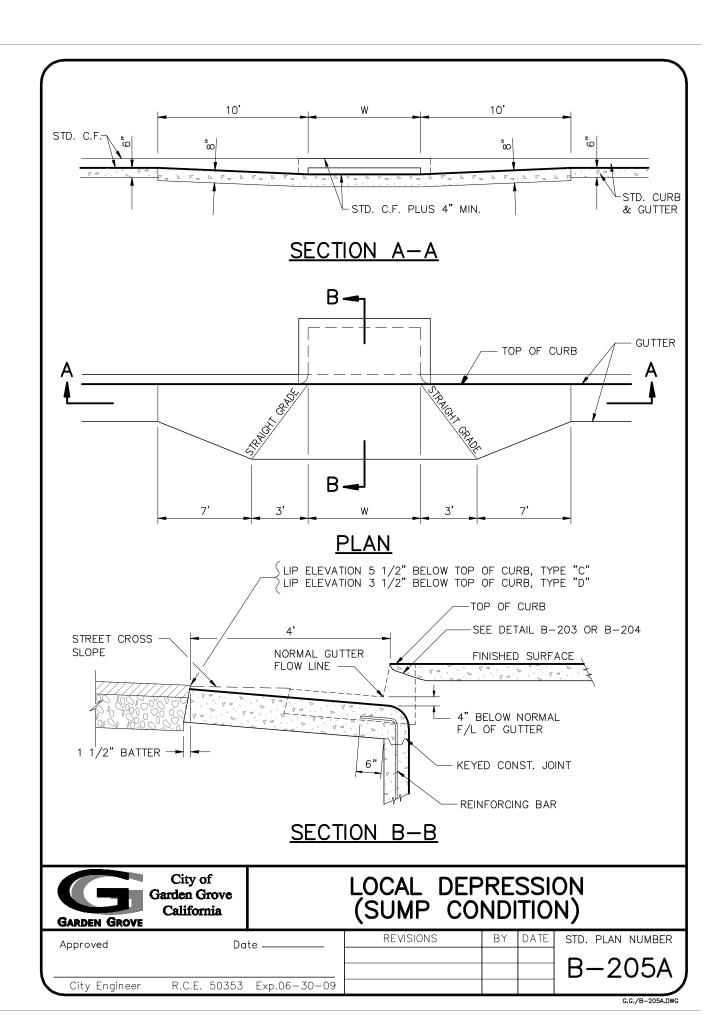


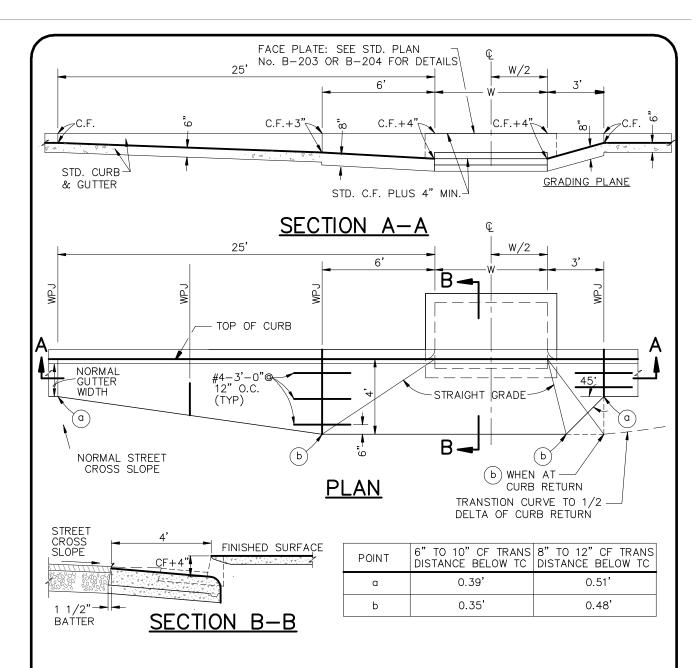
- 1. HORIZONTAL PROTECTION BAR SHALL BE USED WHEN INLET OPENING IS MORE THAN 8 INCHES. SEE STD. PLAN B-203 OR B-204 FOR DETAILS.
- 2. STEPS REQUIRED WHEN "h" IS GREATER THAN 3'-0". SEE STD. PLAN B-203.
- 3. OUTLET MAY BE MADE IN ANY DIRECTION.
- 4. PIPE INLETS AND OUTLETS SHALL BE AT BOTTOM OF BASIN UNLESS OTHERWISE SPECIFIED.
- 5. ALL EXPOSED CONCRETE SURFACES SHALL CONFORM IN GRADE, COLOR AND FINISH TO ALL ADJOINING CURB AND WALK.
- 6. ALL WALL AND BASE REINFORCING STEEL SHALL BE 11/2 INCHES CLEAR FROM INSIDE OR OUTSIDE FACE OF STRUCTURE.
- 7. WHEN "W" IS LESS THAN 8 FEET, USE STD. PLAN B-201.
- 9. ALL CONCRETE SHALL BE CLASS "A" (6 SACK WITH 3/4" AGGREGATE).
- 10. SLOPE BOTTOM OF CATCH BASIN TOWARDS OUTLET A MIN. OF 1" PER FOOT FROM ALL SIDES.



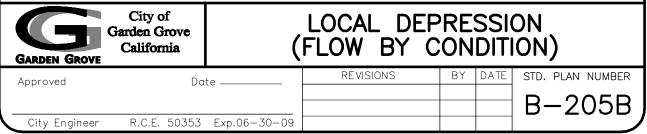


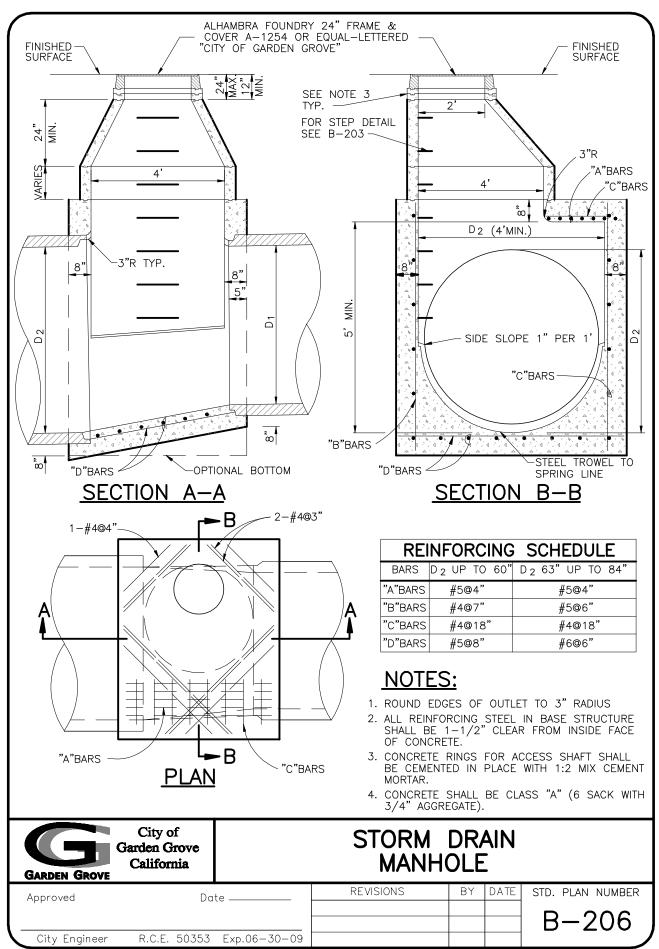


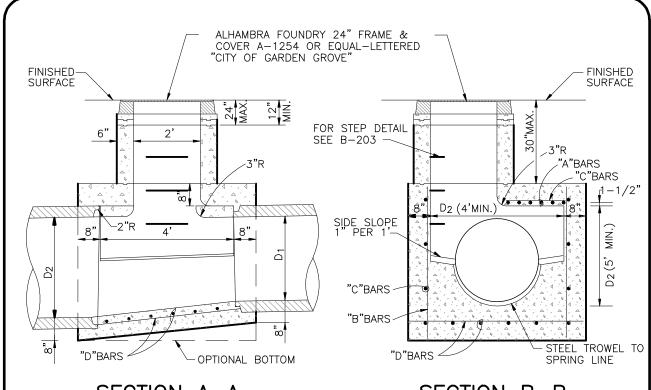




- 1. LOCAL DEPRESSION SHALL NOT BE CONSTRUCTED UNTIL CONNECTING CURB AND GUTTER HAS BEEN COMPLETED OR SHALL BE CONSTRUCTED MONOLITHICALLY WITH CONNECTING CURB AND GUTTER, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 2. LOCAL DEPRESSION SHALL CONFORM TO SAME SHAPE WHETHER GRATE INLET OR CURB OPENING, OR BOTH, ARE USED.
- 3. LENGTH OF OPENING "W" SHALL BE SPECIFIED ON PLANS.
- 4. SEE STANDARD PLANS B-203 OR B-204, FOR CURB OPENING DETAIL.

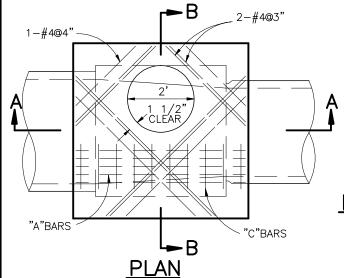












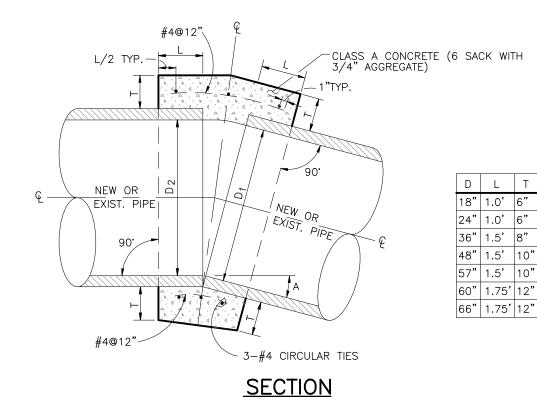
REI	NFORCING	SCHEDULE					
BARS	D <sub>2</sub> UP TO 60"	D <sub>2</sub> 63" UP TO 84"					
"A"BARS	#5@4"	#5@4"					
"B"BARS	#4@7"	#5@6"					
"C"BARS	#4@18"	#4@18"					
"D"BARS	#5@8"	#6@6"					

- 1. ROUND EDGES OF OUTLET TO 3" RADIUS
- 2. ALL REINFORCING STEEL IN BASE STRUCTURE SHALL BE 1-1/2" CLEAR FROM INSIDE FACE OF CONCRETE.
- CONCRETE RINGS FOR ACCESS SHAFT SHALL BE CEMENTED IN PLACE WITH 1:2 MIX CEMENT MORTAR.
- 4. CONCRETE SHALL BE CLASS "A" (6 SACK WITH 3/4" AGGREGATE).

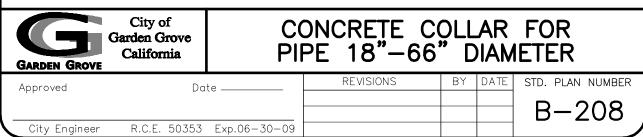


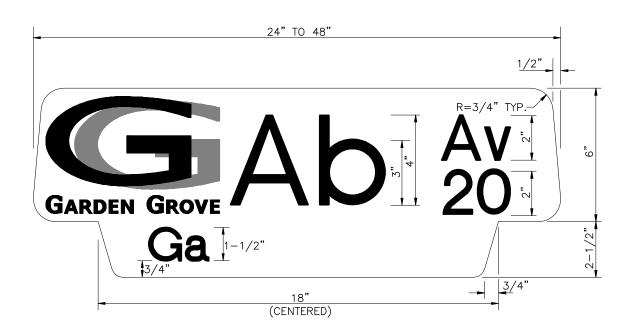
## STORM DRAIN MANHOLE (SHALLOW DEPTH)

GARDEN GROVE		<b>\</b>			- /
Approved	Date	REVISIONS	BY	DATE	STD. PLAN NUMBER
	2 300 ———				D 007
					B-20/
City Engineer	R.C.E. 50353 Exp.06-30-09				



- 1. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR, L AND T SHALL BE THOSE OF THE LARGER PIPE.  $D=D_1$  OR  $D_2$ , WHICHEVER IS GREATER.
- 2. FOR PIPE SIZE NOT LISTED USE NEXT SIZE LARGER.
- OMIT REINFORCING ON PIPES 24" AND LESS IN DIAMETER AND ON ALL PIPES WHERE ANGLE A IS LESS THAN 10".
- 4. WHERE REINFORCING IS REQUIRED THE DIAMETER OF THE CIRCULAR TIES SHALL BE D + (2x WALL THICKNESS) + 6".
- 5. WHEN  ${\rm D_1}$  is equal to or less than  ${\rm D_2},$  join inverts and when  ${\rm D_1}$  is greater than  ${\rm D_2},$  join soffits.
- 6. PIPE MAY BE CORRUGATED METAL PIPE, CONCRETE PIPE OR REINFORCED CONCRETE PIPE.

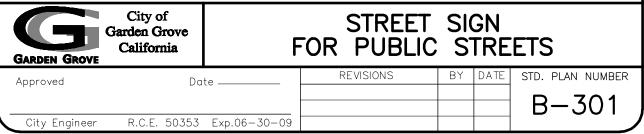


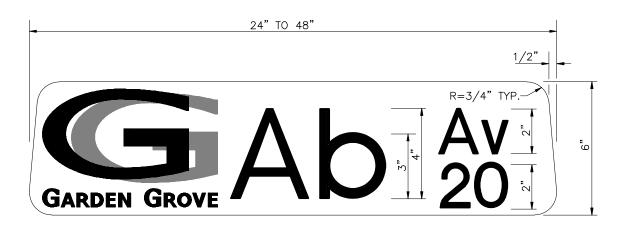


#### CLASS "A" SIGN FOR ARTERIAL HIGHWAY

(CLASS "B" SIGN IDENTICAL MINUS 2-1/2" LOWER SECTION) ALL OTHER STREETS

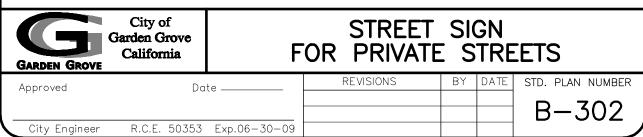
- 1. BACKGROUND: WHITE REFLECTIVE SHEETING.
- 2. ALL LETTERING FONTS SHALL BE AS SHOWN ABOVE, COLOR SHALL MATCH LOGO DARK BLUE.
- 3. STREET NAME 4" UPPER CASE AND 3" LOWER CASE.
- 4. SUFFIX 2" UPPER CASE AND 1-1/2" LOWER CASE.
- 5. NUMBERS 2".
- 6. CITY NAME (CLASS "A" SIGN ONLY) 1-1/2" UPPER CASE, 1" LOWER CASE.
- 7. LOGO TO MATCH CITY STANDARD (GOLD, DARK BLUE, LIGHT BLUE WITH WHITE REFLECTIVE BORDER).
- 8. ALL LOWER CASE AT SAME RATIO AS STREET NAME 3:4.
- 9. SIGNS SHALL BE AS MANUFACTURED BY WESTERN HIGHWAYS OR APPROVED EQUAL.
- 10. SIGNS TO BE APPROVED PRIOR TO INSTALLATION.

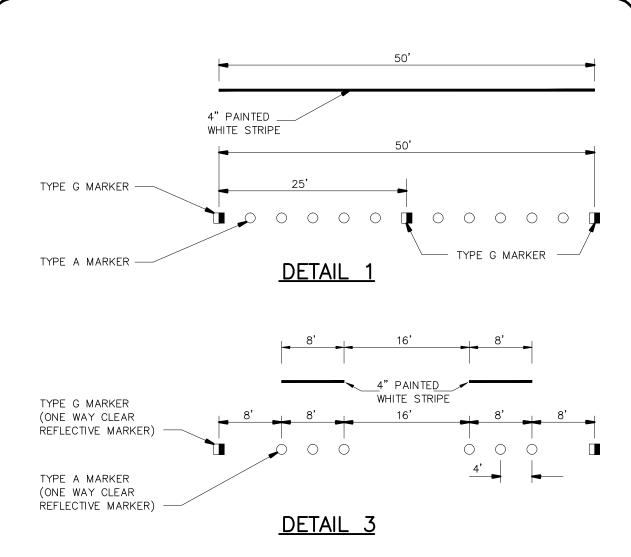




### CLASS "B" SIGN

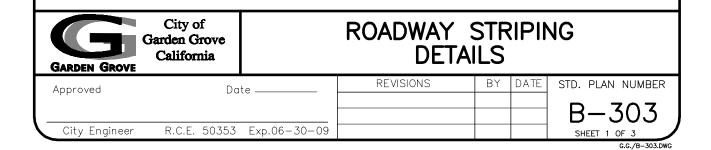
- 1. BACKGROUND: LIGHT BLUE REFLECTIVE SHEETING.
- 2. ALL LETTERING FONTS SHALL BE AS SHOWN ABOVE, COLOR SHALL MATCH LOGO DARK BLUE.
- 3. STREET NAME 4" UPPER CASE AND 3" LOWER CASE.
- 4. SUFFIX 2" UPPER CASE AND 1-1/2" LOWER CASE.
- 5. NUMBERS 2".
- 6. LOGO TO MATCH CITY STANDARD (GOLD, DARK BLUE, LIGHT BLUE WITH WHITE REFLECTIVE BORDER).
- 7. ALL LOWER CASE AT SAME RATIO AS STREET NAME 3:4.
- 9. SIGNS SHALL BE AS MANUFACTURED BY WESTERN HIGHWAYS OR APPROVED EQUAL.
- 10. SIGNS TO BE APPROVED PRIOR TO INSTALLATION.

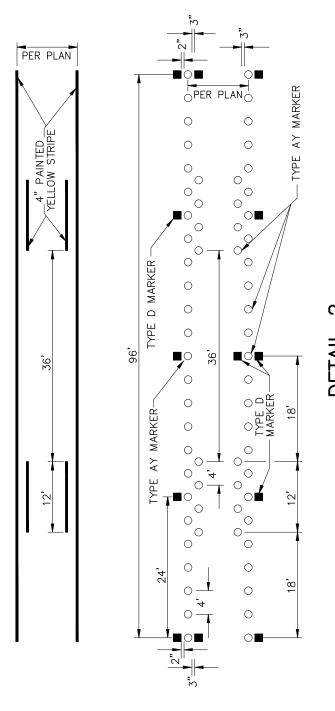




- 1. BOTH PAINT AND MARKERS TO BE INSTALLED PER DETAIL AS SHOWN, WITH PAINT INSTALLED FIRST.
- 2. INSTALLATION OF ALL MARKERS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST CALTRANS STANDARD SPECIFICATIONS SECTION 85.

DO NOT USE THIS STANDARD FOR NEW STRIPING OF ENTIRE ROADWAYS — TO BE USED ONLY FOR REPLACEMENT OF EXISTING STRIPING IN ISOLATED AREAS TO MATCH ADJACENT STRIPING.



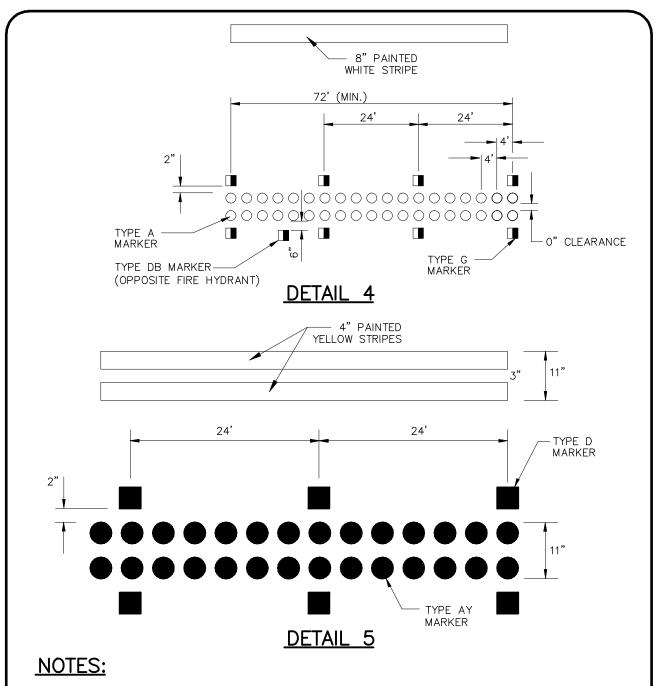


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DO NOT USE THIS STANDARD FOR NEW STRIPING OF ENTIRE ROADWAYS — TO BE USED ONLY FOR REPLACEMENT OF EXISTING STRIPING IN ISOLATED AREAS TO MATCH ADJACENT STRIPING.

- 1. BOTH PAINT AND MARKERS TO BE INSTALLED PER DETAIL AS SHOWN, WITH PAINT INSTALLED FIRST.
- 2. INSTALLATION OF ALL MARKERS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST CALTRANS STANDARD SPECIFICATIONS SECTION 85.

Approved Date REVISIONS BY DATE STD. PLAN NUMBER B-303  City Engineer R.C.E. 50353 Exp.06-30-09	GARDEN GROVE	City of Garden Grove California		ROADWAY S DETA		RIPIN	NG
01 5 : 0.0 50.757 5 00 70 00	Approved	Da	te	REVISIONS	BY	DATE	STD. PLAN NUMBER
SHEET 2 OF 3	City Engineer	R.C.E. 50353	Exp.06-30-09				B-303



- 1. BOTH PAINT AND MARKERS TO BE INSTALLED PER DETAIL AS SHOWN, WITH PAINT INSTALLED FIRST.
- INSTALLATION OF ALL MARKERS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST CALTRANS STANDARD SPECIFICATIONS SECTION 85.

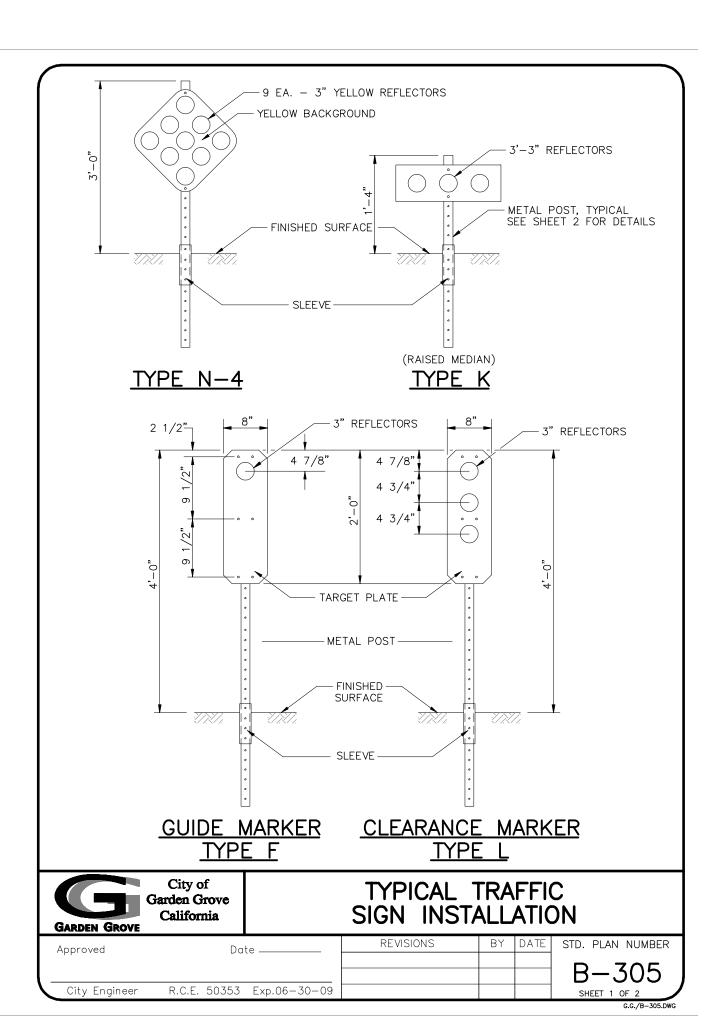
DO NOT USE THIS STANDARD FOR NEW STRIPING OF ENTIRE ROADWAYS — TO BE USED ONLY FOR REPLACEMENT OF EXISTING STRIPING IN ISOLATED AREAS TO MATCH ADJACENT STRIPING.

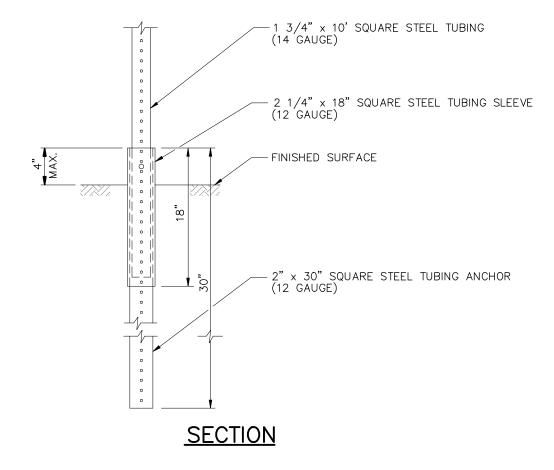


## ROADWAY STRIPING DETAILS FOR SINGLE DOUBLE LINES

G.G./B-303C.DWG

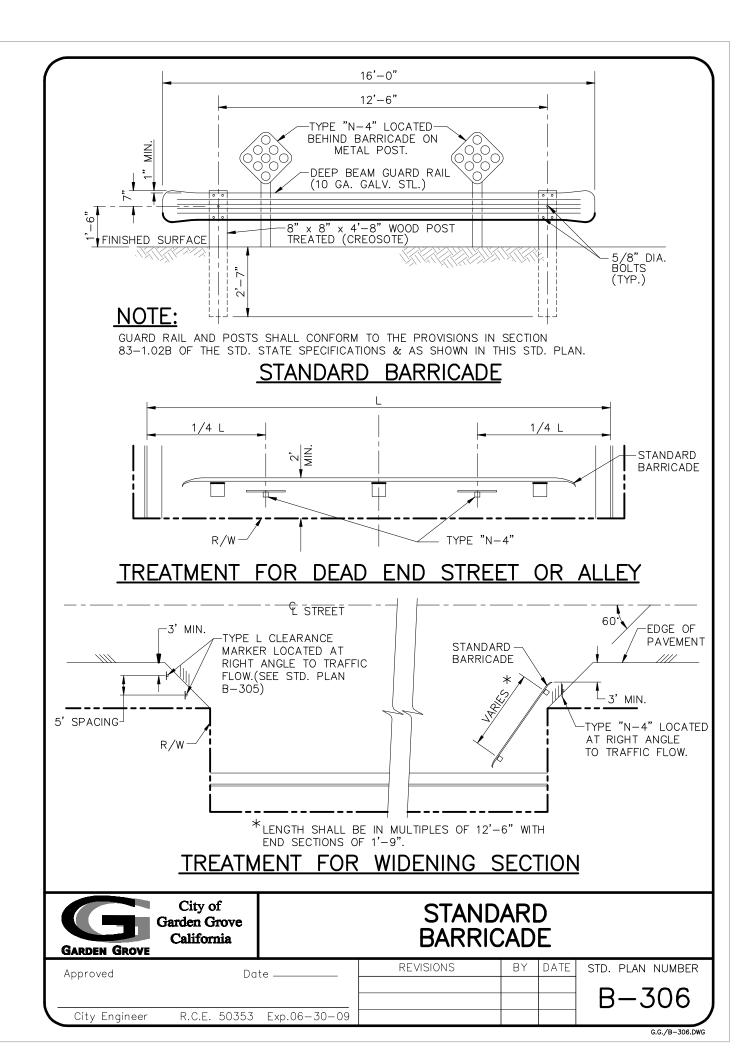
GARDEN GROVE					
Approved	Date	REVISIONS	BY	DATE	STD. PLAN NUMBER
	5 4 (0				D 707
					B-303
City Engineer	R.C.E. 50353 Exp.06-30-09				SHEET 3 OF 3

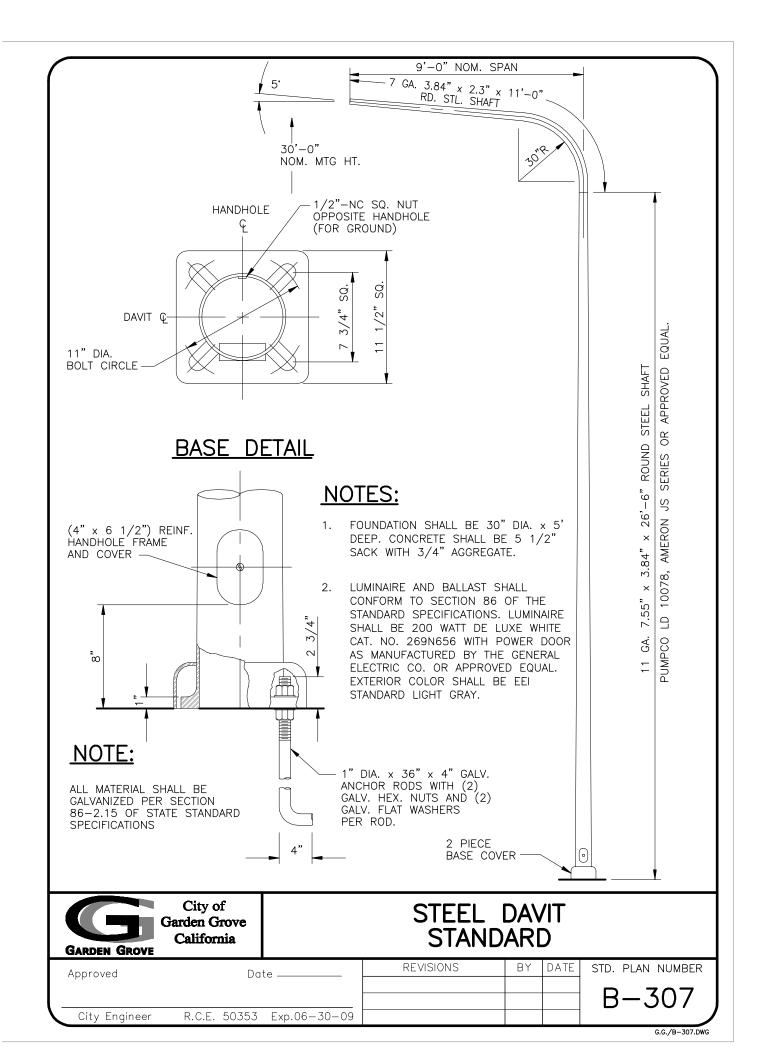


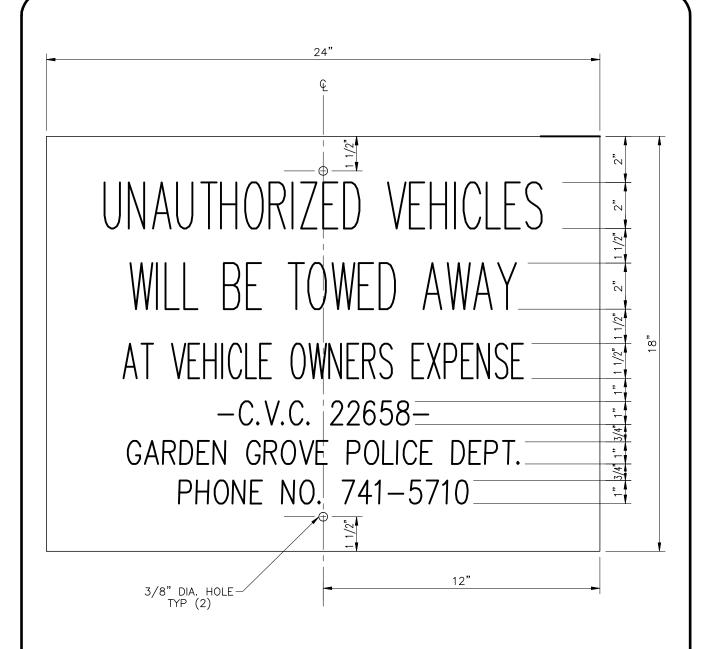


- 1. SQUARE STEEL TUBING SHALL BE GALVANIZED, WITH 7/16" DIAMETER DIE CUT KNOCKOUTS ON 1" CENTERS, FULL LENGTH ON FOUR SIDES, AS MANUFACTURED BY ALLIED TUBE CONDUIT, OR APPROVED EQUAL.
- 2. SIGNS SHALL BE MOUNTED WITH GALVANIZED NUTS, BOLTS, AND WASHERS.

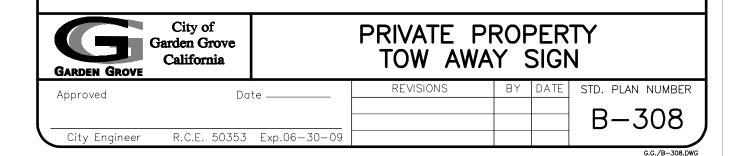
GARDEN GROVE	City of Garden Grove California	TYPICAL TRAFFIC SIGN INSTALLATION				
Approved	Da	te	REVISIONS	BY	DATE	STD. PLAN NUMBER
City Engineer	R C F 50353	Exp.06-30-09				B-305
Orty Erigineer	TK.O.E. 30333	EXP.00 00 00				G.G./B-305B.DWG

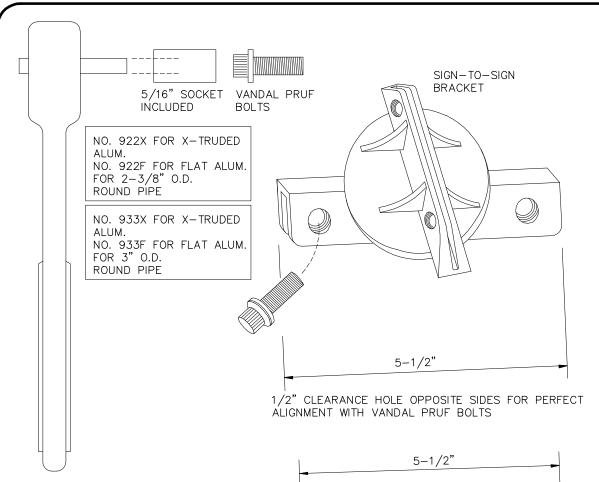




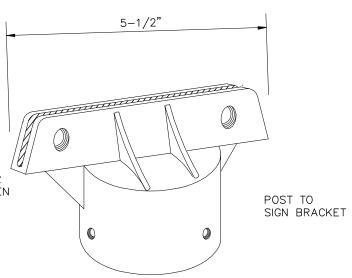


- 1. COLOR SHALL BE BLACK LETTERS AND BORDER ON A WHITE BACKGROUND.
- 2. SIZES SHOWN ARE MINIMUM.
- SIGN PLACEMENT SHALL BE IN ACCORDANCE WITH M.C. 10.56.220 AND C.V.C. 22658.





SHALL BE DIE CAST OF NO. 380 ALLOY
WITH TENSILE STRENGTH OF 49,000 PSI
WITH EXCELLENT RESISTANCE TO
CORROSION. THE BRACKETS SHALL BE
SMOOTHLY FINISHED FREE OF HOLES, PITS
OR FLAWS. ALL BRACKETS SHALL HAVE 2
ANGLED GUSSETS, OR RIBS ON EACH
SIDE FOR EXTRA STRENGTH. ALL SETS OF
BRACKETS SHALL BE TAPPED AND DRILLED FOR
10 EACH 5/16" ZINC DICHROMATE PLATED ALLEN
TYPE SET SCREWS HAVING SELF LOCKING
SAWTOOTH ENDS.



EXCLUSIVE FEATURE 4 FASTENERS IN BASE CAP PLUS LONGER BASE CAP FOR PERFECT ALIGNMENT

### NOTE:

CAP SIZE 2-1/2" I.D.



City of Garden Grove California

# STREET NAME SIGN MOUNTING BRACKET (FLAT OR EXTRUDED)

Approved Date \_\_\_\_\_\_ REVISIONS BY DATE STD. PLAN NUMBER B—309

G.G./B-309.DWG

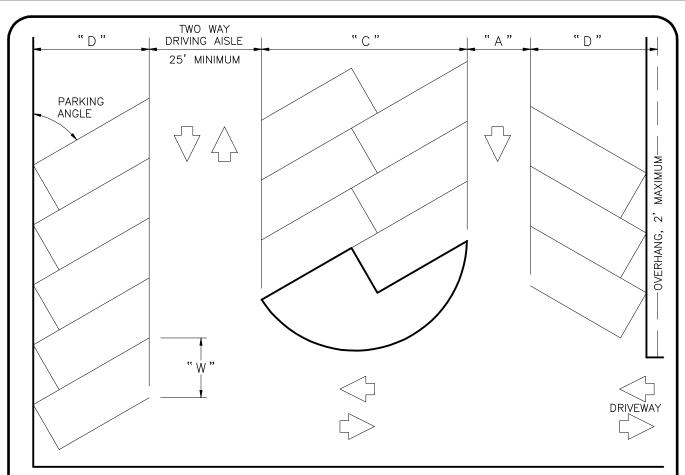
## SEE B-301 & B-302 FOR STREET SIGN DETAILS AND B-305 FOR SIGN MOUNTING BRACKET DETAILS. 2" I.D. SCHEDULE 40 (MIN.) GALVANIZED PIPE 10'-6" LONG. FINISHED SURFACE FOUNDATION MAY BE POURED INTEGRAL WITH SIDEWALK $\nabla$ D $\triangle$ 8" DIA **SECTION** STREET NAME SIGN POLE DETAIL City of Garden Grove California GARDEN GROVE REVISIONS STD. PLAN NUMBER ΒY DATE Date \_ Approved B - 310

R.C.E. 50353

Exp.06-30-09

City Engineer

G.G./B-310.DWG

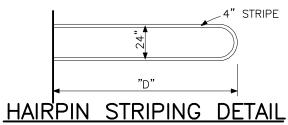


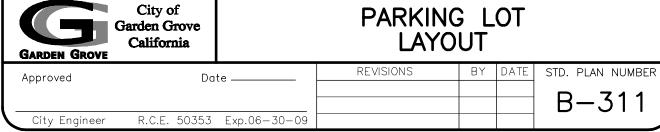
STALL TYPE	PARKING ANGLE (DEGREES)	"W" WIDTH of STALL PARALLEL to AISLE	"D" DEPTH of STALL PERPENDICULAR to AISLE	" A " WIDTH of DRIVING AISLE	" C " CENTER SECTION PARKING WIDTH
	90	9'0"	19'0"	25'0"	38'0"
FULL SIZE	60	11'0"	21'2"	25'0"	37'8"
	45	13' 5"	20'2"	25'0"	33'7"
	30	19'0"	17'9"	25'0"	27'3"
	0*	22'0"	**8' 0"	25'0"	
COMPACT	90	8'0"	15'0"	25'0"	30'0"
	60	8' 7"	16'8"	25'0"	29'4"
	45	10'7"	16'0"	25'0"	26' 3"

\* PARALLEL PARKING

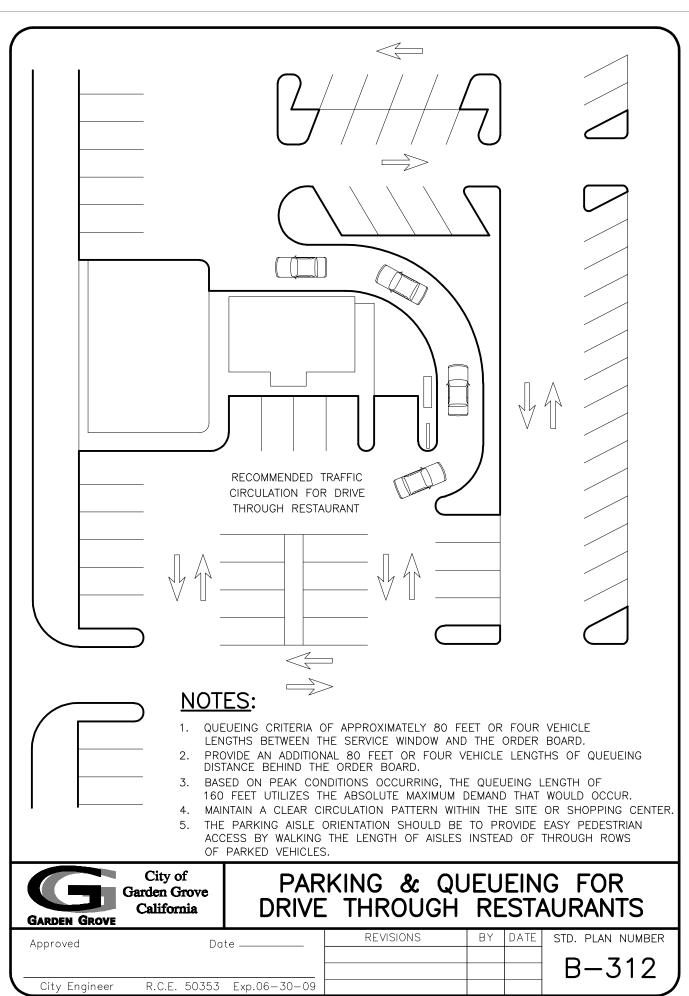
City of

\*\* 9' AGAINST A WALL





G.G./B-311.DWG



G.G./B-312.DWG