PUBLIC WORKS DEPARTMENT

ENGINEERING SERVICES



STANDARD DRAWINGS

STANDARD DRAWINGS

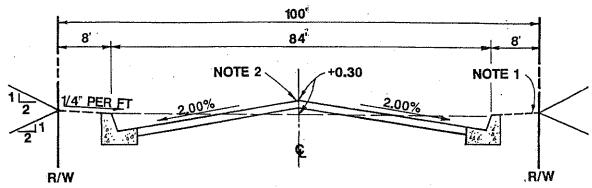
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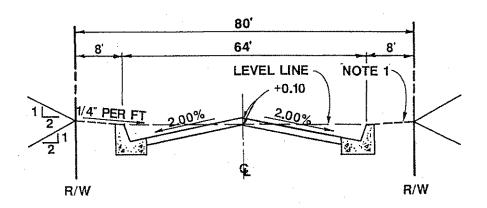
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1.2



- 1. SEE STANDARD DRAWING NO. 115 FOR SIDEWALK DESIGNATIONS.
- 2. WHERE RAISED MEDIAN IS REQUIRED, SEE STANDARD DRAWING NO. 120.
- 3. PAVEMENT THICKNESS & BASE REQUIREMENT TO BE DETERMINED BY SOILS ANALYSIS.
- 4. SEE STANDARD DRAWING NO. 104 FOR BASE DETAILS.

MAJOR HIGHWAYS



NOTES:

1. SEE STANDARD DRAWING NO. 115 FOR SIDEWALK DESIGNATIONS.

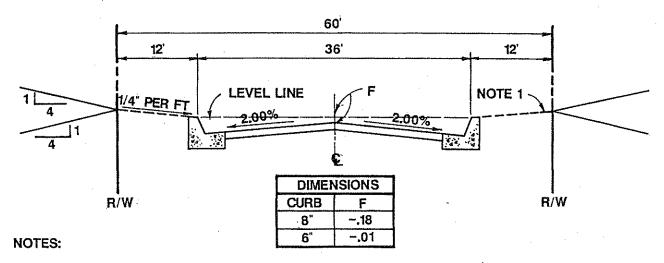
DIVISION ENGINEER

- 2. PAVEMENT THICKNESS & BASE REQUIREMENT TO BE DETERMINED BY SOILS ANALYSIS.
- 3. SEE STANDARD DRAWING NO. 104 FOR BASE DETAILS.

SECONDARY HIGHWAYS, INDUSTRIAL & COMMERCIAL STREETS

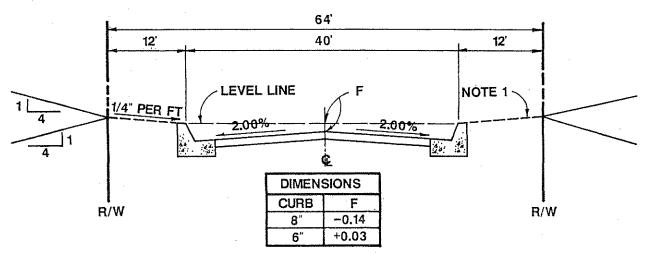
DIRECTOR OF PUBLIC WORKS

CITY OF CARSON REVISIONS MAJOR & SECONDARY HIGHWAY, INDUSTRIAL & COMMERCIAL STREET SECTIONS RECOMMENDED: M Huber APPROVED: Harold C. William NO. 100



- 1. SEE STANDARD DRAWING NO. 115 FOR SIDEWALK DESIGNATIONS.
- 2. PAVEMENT THICKNESS & BASE REQUIREMENT TO BE DETERMINED BY SOIL ANALYSIS.
- 3. SEE STANDARD DRAWING NO. 104 FOR BASE DETAILS.

INTERIOR COLLECTOR & LOCAL STREETS

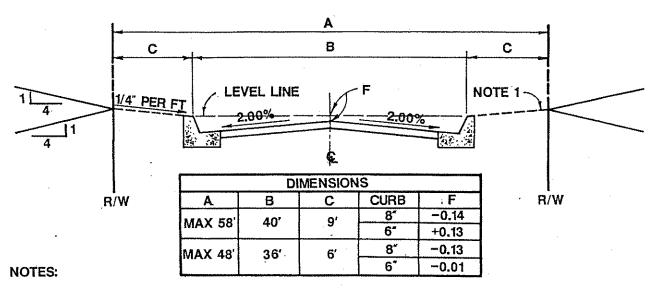


NOTES:

- 1. SEE STANDARD DRAWING NO. 115 FOR SIDEWALK DESIGNATIONS.
- 2. PAVEMENT THICKNESS & BASE REQUIREMENT TO BE DETERMINED BY SOILS ANALYSIS.
- 3. SEE STANDARD DRAWING NO. 104 FOR BASE DETAILS.

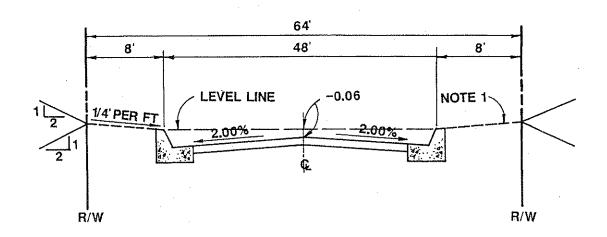
THROUGH COLLECTOR STREETS

CITY OF CARSON		
REVISIONS	INTERIOR COLLECTOR & LOCAL STREET, THROUGH COLLECTOR STREET SECTIONS	DRAWN BY Something DATE APPROVED 2/2/87
	RECOMMENDED: W Hater APPROVED: Hard C. William	NO. 101



- 1. SEE STANDARD DRAWING NO. 115 FOR SIDEWALK DESIGNATIONS.
- 2. PAVEMENT THICKNESS & BASE REQUIREMENT TO BE DETERMINED BY SOILS ANALYSIS.
- 3. SEE STANDARD DRAWING NO. 104 FOR BASE DETAILS.

EXISTING LOCAL STREETS

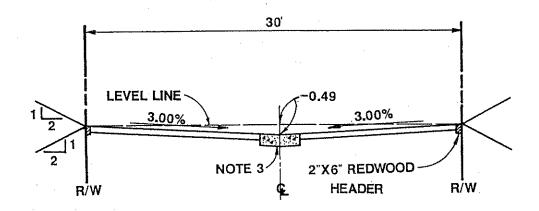


NOTES:

- 1. SEE STANDARD DRAWING NO. 115 FOR SIDEWALK DESIGNATIONS.
- 2. PAVEMENT THICKNESS & BASE REQUIREMENT TO BE DETERMINED BY SOILS ANALYSIS.
- 3. SEE STANDARD DRAWING NO. 104 FOR BASE DETAILS.

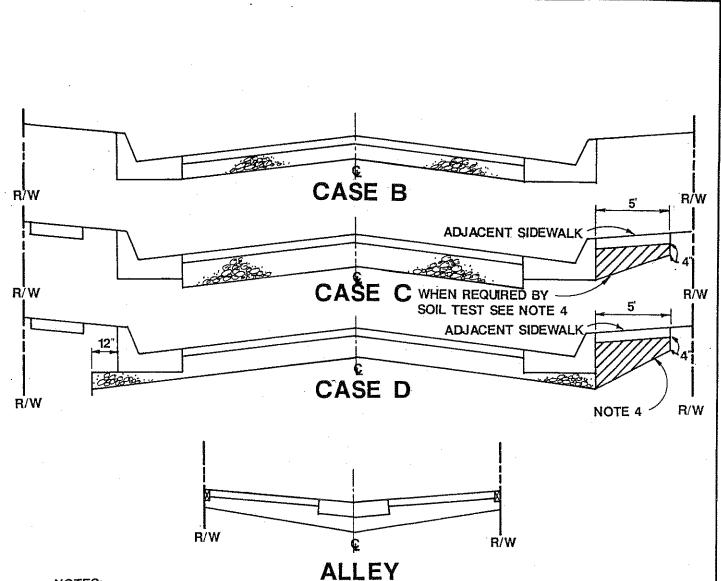
INDUSTRIAL CUL-DE-SAC OR LOOP

CITY OF CARSON		
REVISIONS	EXISTING LOCAL STREET, INDUSTRIAL CUL-DE-SAC OR LOOP SECTIONS	DRAWN BY South DATE APPROVED 2/2/87
	RECOMMENDED: // How APPROVED: Hareld C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 102



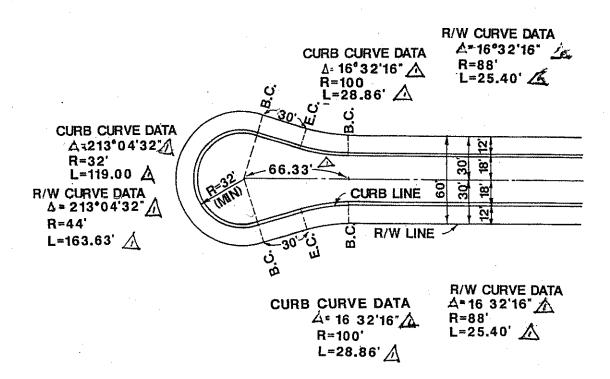
- 1. PAVEMENT THICKNESS & BASE REQUIREMENT TO BE DETERMINED BY SOIL ANALYSIS.
- 2. SEE STANDARD DRAWING NO.104 FOR BASE DETAILS.
- 3. SEE STANDARD DRAWING NO. 108 FOR GUTTER DETAIL.

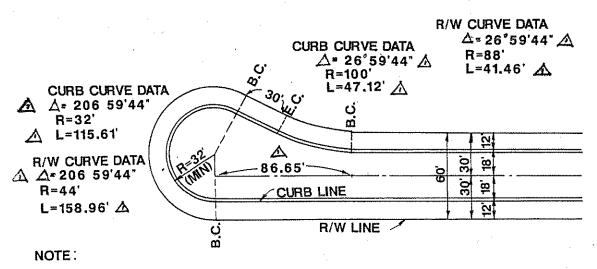
CITY OF CARSON		
REVISIONS	ALLEY SECTION	DRAWN BY Light DATE APPROVED 2/2/87
	RECOMMENDED: W Holy APPROVED: Hard C. Welliam	NO. 103



- 1. BASE MATERIAL TO BE CRUSHED AGGREGATE BASE UNLESS OTHERWISE SPECIFIED.
- 2. STRAIGHT GRADE AT BOTTOM OF BASE.
- 3. WHERE BASE IS REQUIRED UNDER GUTTER, THICKNESS SHALL BE 4" MINIMUM.
- 4. CRUSHED AGGREGATE BASE OR SELECT SUBBASE WITH EXPANSION LESS THAN 3% BY SOIL TEST.
- 5. BASE REQUIREMENT TO BE DETERMINED BY SOIL ANALYSIS.

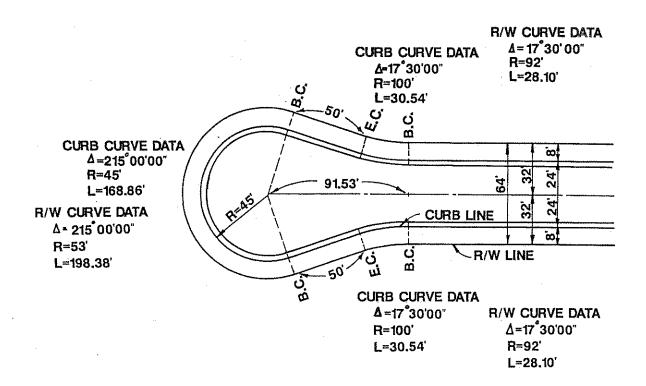
	CITY OF CARSON	
REVISIONS	BASE DETAILS FOR HIGHWAYS, STREETS & ALLEYS	DRAWN BY Sometime DATE APPROVED
	RECOMMENDED: W How APPROVED: DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 104

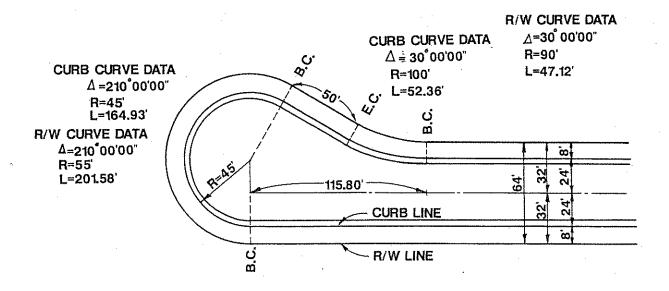




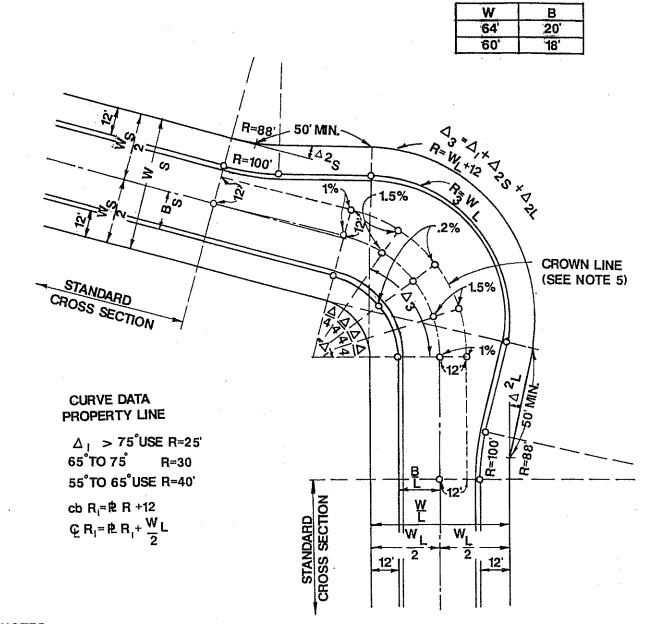
PARTIALLY OFFSET TURNAROUNDS ARE ACCEPTABLE.

	CITY OF CARSON	
REVISIONS 1. 5/2/89	LOCAL & INTERIOR COLLECTOR CUL-DE-SAC	DRAWN BY Process DATE APPROVED 2/2/87
103619	RECOMMENDED: Whole APPROVED: Hand C. Williams DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	



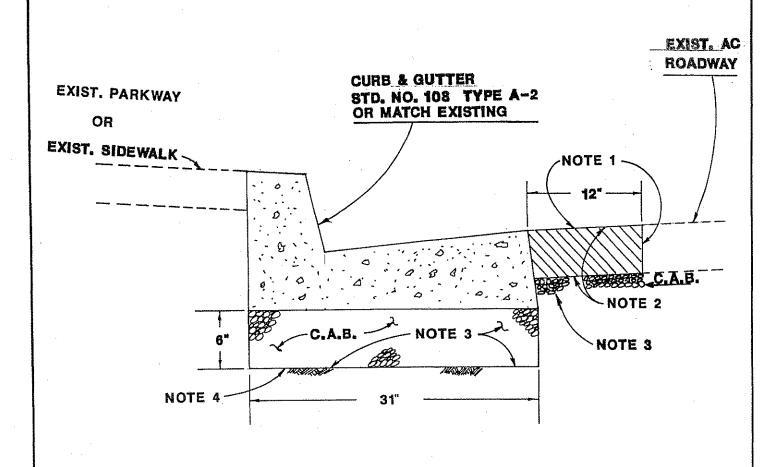


CITY OF CARSON		
REVISIONS	LOCAL INDUSTRIAL CUL-DE-SAC	DRAWN BY DATE APPROVED 2/2/87
103619	RECOMMENDED: 1 Hard C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 106



- 1, SUBSCRIPTS "S" AND "L" DENOTE SMALLER AND LARGER WIDTHS RESPECTIVELY.
- 2. ELEVATIONS ARE REQUIRED WHERE CIRCLED.
- 3. TRANSVERSE SLOPES SHOWN ABOVE ARE TYPICAL FOR FLAT APPROACH GRADES AND CAN BE INCREASED TO A MAXIMUM OF 4% AT CENTER OF CURVE FOR STEEP APPROACH GRADES.
- 4. LIMITS OF SLOPE, CROWN LINE TO OUTSIDE GUTTER, MAX.=2.2% FOR 8" C.F. AND 3.8% FOR 6"C.F.;MIN. 1%.
- 5. CROWNLINE CAN BE MOVED TO WITHIN 7' OF OUTSIDE CURB.

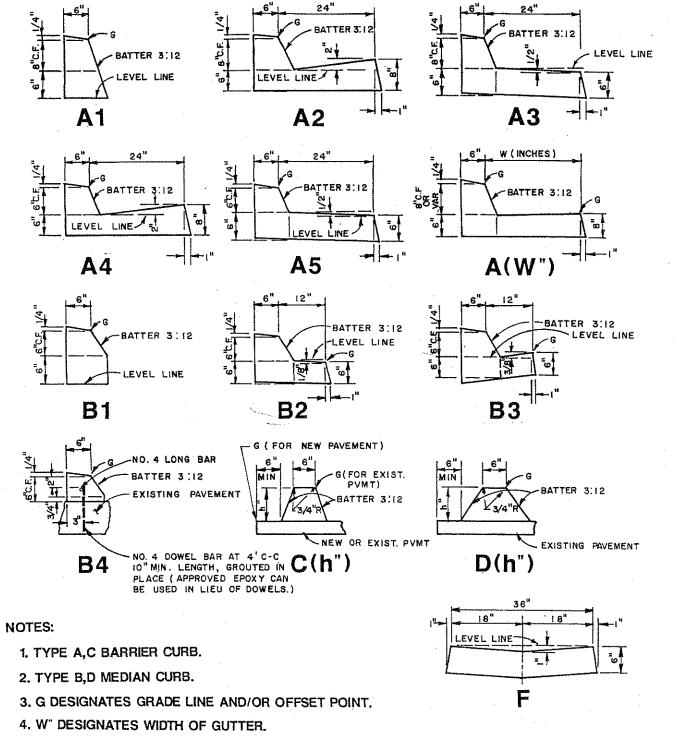
CITY OF CARSON		
REVISIONS	SUPERELEVATED KNUCKLE	DRAWN BY DATE APPROVED 2/2/87
5 ·	RECOMMENDED Library APPROVED: Havely C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 107



TYPE A-2

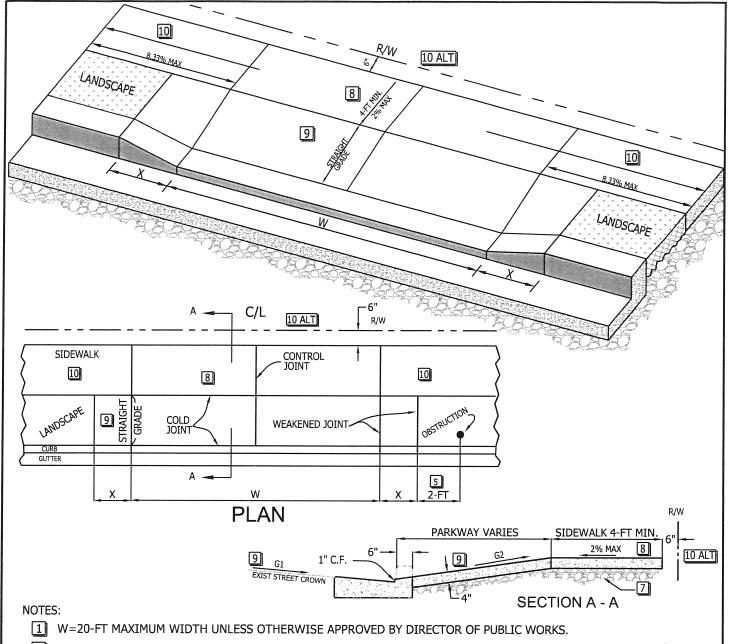
- 1. SAWCUT AND REMOVE 12" OF A.C. ROADWAY. SAWCUT MIN 4" DEEP. REMOVAL THICKNESS TO MATCH EXIST PAVEMENT.
- 2. PAVE WITH C2-AR-4000, THICKNESS TO MATCH EXIST. ROADWAY STRACTURAL SECTION.
- 3. C.A.B. COMPACTION MIN 95%.
- 4. SUBGRADE COMPACTION MIN 90%.

CITY OF CARSON		
REVISIONS	CURB & GUTTER	DRAWN BY
	REPLACEMENT DETAIL	DATE APPROVED
	APPROVED: Yeary & Arhult DIRECTOR OF ENGINEERING SERVICES	NO. 108 A



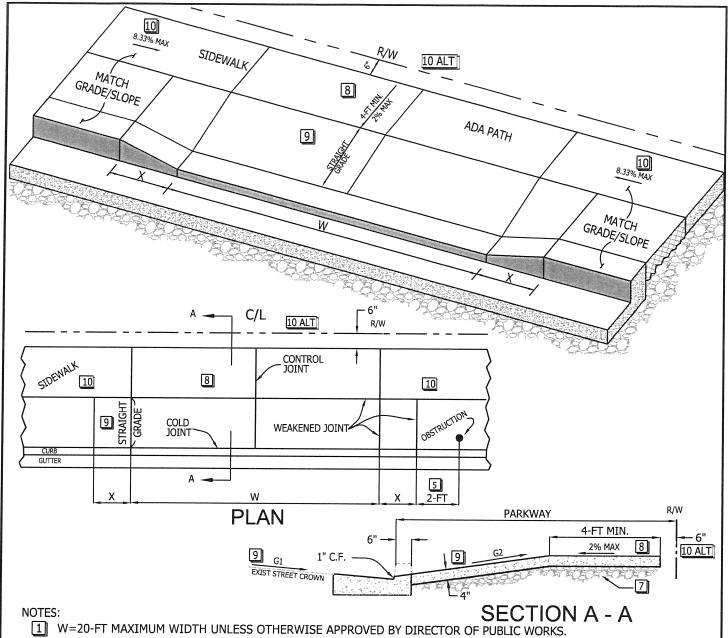
- 5. h " DESIGNATES HEIGHT OF TYPE C AND D ASPHALT CONCRETE CURB.
- 6. TYPES C AND D ARE CONSTRUCTED OF ASPHALTIC CONCRETE. (E-AR8000)
- 7. TYPES A,B,F ARE CONSTRUCTED OF PORTLAND CEMENT CONCRETE.
- 8. ALL EXPOSED CORNERS ON P.C.C. CURBS & GUTTERS TO BE ROUNDED WITH A 3/4" R.

CITY OF CARSON		
REVISIONS	CURB & GUTTER	DRAWN BY DATE APPROVED 2/2/87
	RECOMMENDED: White APPROVED: Harold C. Williams DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 108



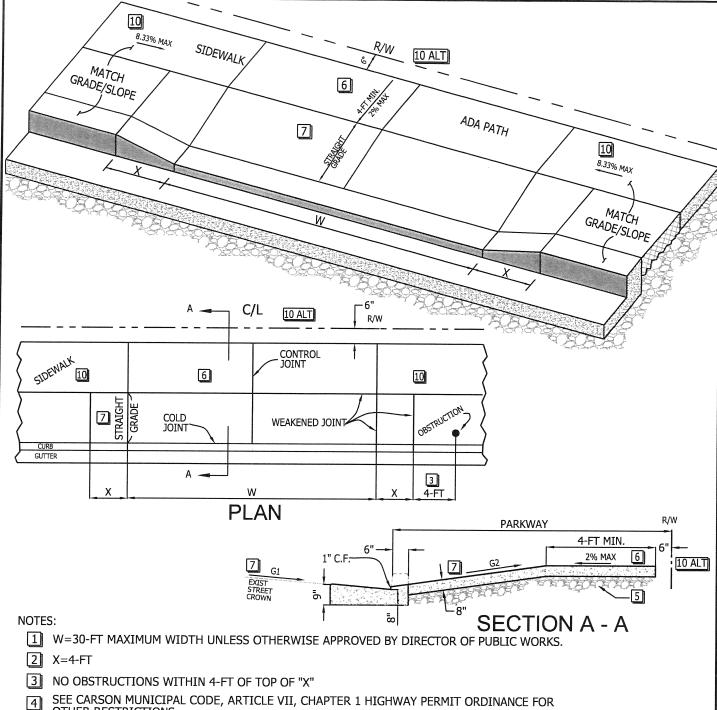
- 2 CASE 1 MAY BE USED FOR SIDEWALKS WITH LANDSCAPED PARKWAY BEHIND CURB
- 3 X=4-FT WHEN CURB FACE IS 8-INCHES
- 4 X=3-FT WHEN CURB FACE IS 6-INCHES
- 5 NO OBSTRUCTIONS WITHIN 2-FT OF TOP OF "X"
- 6 SEE CARSON MUNICIPAL CODE, ARTICLE VII, CHAPTER 1 HIGHWAY PERMIT ORDINANCE FOR OTHER RESTRICTIONS.
- 4-INCH MINIMUM C.A.B. AT 95% COMPACTION OVER SUBGRADE AT 90% COMPACTION
- 8 SHALL BE A MINIMUM OF 4-FT AND SHALL NOT EXCEED 2% CROSS SLOPE FOR ADA COMPLIANCE
- 9 STRAIGHT GRADE FROM BACK OF CURB TO FRONT OF SIDEWALK. G2 MINUS G1 SHALL NOT EXCEED 12%. G1 MIN = -1%
- 10 RAMP ADJACENT SIDEWALK (8.33% MAX) TO ACCOMODATE NOTE #9. NO ADDITIONAL EASEMENT REQUIRED
- 10 ALT EASEMENT BEYOND THE RIGHT-OF-WAY MAY BE REQUIRED TO ACCOMODATE ADA REQUIREMENTS

REVISIONS	DATE	RESIDENTIA	L DRIVEWAY	CASE 1	DRAWN BY:	
INCLUDED C.A.B REVISED 2, INCLUDED 8-10ALT	1/14/93 12/21/16	RECOMMENDED:	APPROVED:		RAYMOND H.	VELASCO, P.E.
DATE APPROVED: SHEET 1 OF	(CITY ENGINEER)	DIRECTOR OF P	1/26/17 UBLIC WØRKS	NO.	109



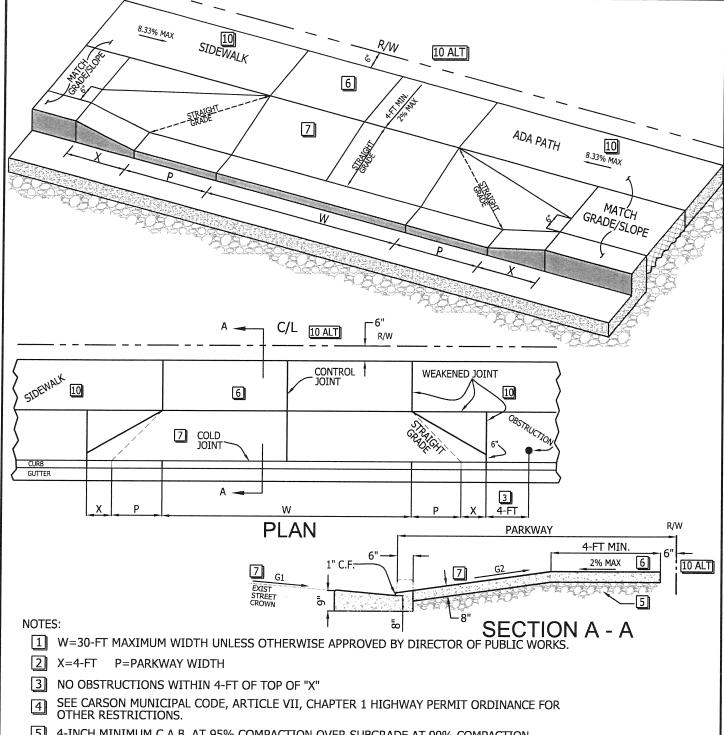
- [2] CASE 2 MAY BE USED FOR FULL WIDTH SIDEWALKS.
- 3 X=4-FT WHEN CURB FACE IS 8-INCHES
- 4 X=3-FT WHEN CURB FACE IS 6-INCHES
- 5 NO OBSTRUCTIONS WITHIN 2-FT OF TOP OF "X"
- SEE CARSON MUNICIPAL CODE, ARTICLE VII, CHAPTER 1 HIGHWAY PERMIT ORDINANCE FOR OTHER RESTRICTIONS.
- 4-INCH MINIMUM C.A.B. AT 95% COMPACTION OVER SUBGRADE AT 90% COMPACTION
- 8 SHALL BE A MINIMUM OF 4-FT AND SHALL NOT EXCEED 2% CROSS SLOPE FOR ADA COMPLIANCE
- 9 STRAIGHT GRADE FROM BACK OF CURB TO FRONT OF SIDEWALK. G2 MINUS G1 SHALL NOT EXCEED 12%. G1 MIN= -1%
- RAMP ADJACENT SIDEWALK (8.33% MAX) TO ACCOMODATE NOTE #9. NO ADDITIONAL EASEMENT REQUIRED
- 10 ALT EASEMENT BEYOND THE RIGHT-OF-WAY MAY BE REQUIRED TO ACCOMODATE THIS STANDARD'S REQUIREMENTS

REVISIONS	DATE	RESIDENTIA	L DRIVEWAY-CASE2	DRAWN BY:
INCLUDED C.A.B REVISED 2, INCLUDED 8-10ALT	1/14/93	RECOM MEN DED:	APPROVED:	RAYMOND H. VELASCO, P.E.
DATE APPROVED:		Ce52	1/26/17	NO. 110
SHEET 1 OI	F 1	CITY ENGINEER /	DIRECTOR OF PUBLIC WORKS	



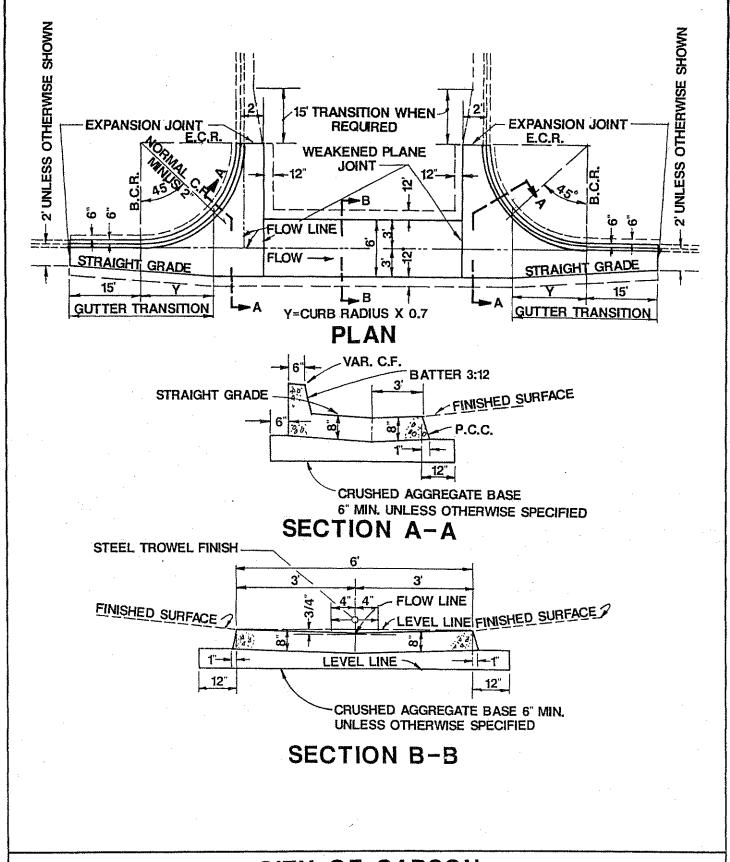
- OTHER RESTRICTIONS.
- 4-INCH MINIMUM C.A.B. AT 95% COMPACTION OVER SUBGRADE AT 90% COMPACTION
- 6 SHALL BE A MINIMUM OF 4-FT AND SHALL NOT EXCEED 2% CROSS SLOPE FOR ADA COMPLIANCE
- T STRAIGHT GRADE FROM BACK OF CURB TO FRONT OF SIDEWALK. G2-G1 SHALL NOT EXCEED 12%. G1 MIN= -1%
- 8 RAMP ADJACENT SIDEWALK (8.33% MAX) TO ACCOMODATE NOTE #9. NO ADDITIONAL EASEMENT REQUIRED
- 8 ALT EASEMENT BEYOND THE RIGHT-OF-WAY MAY BE REQUIRED TO ACCOMODATE THIS STANDARD'S REQUIREMENTS

REVISIONS	DATE	COMMERCIAL D	PRIVEWAY - CASE 1	DRAWN BY:
REVISED 5, INCLUDED 6-8ALT	12/21/16	RECOMMENDED:	APPROVED:	RAYMOND H. VELASCO, P.E.
DATE APPROVED:		CO 3/	MM 1/26/17	NO. 111
SHEET 1 O	F 1	CITY ENGINEER \	DIRECTOR OF PUBLIC WORKS	

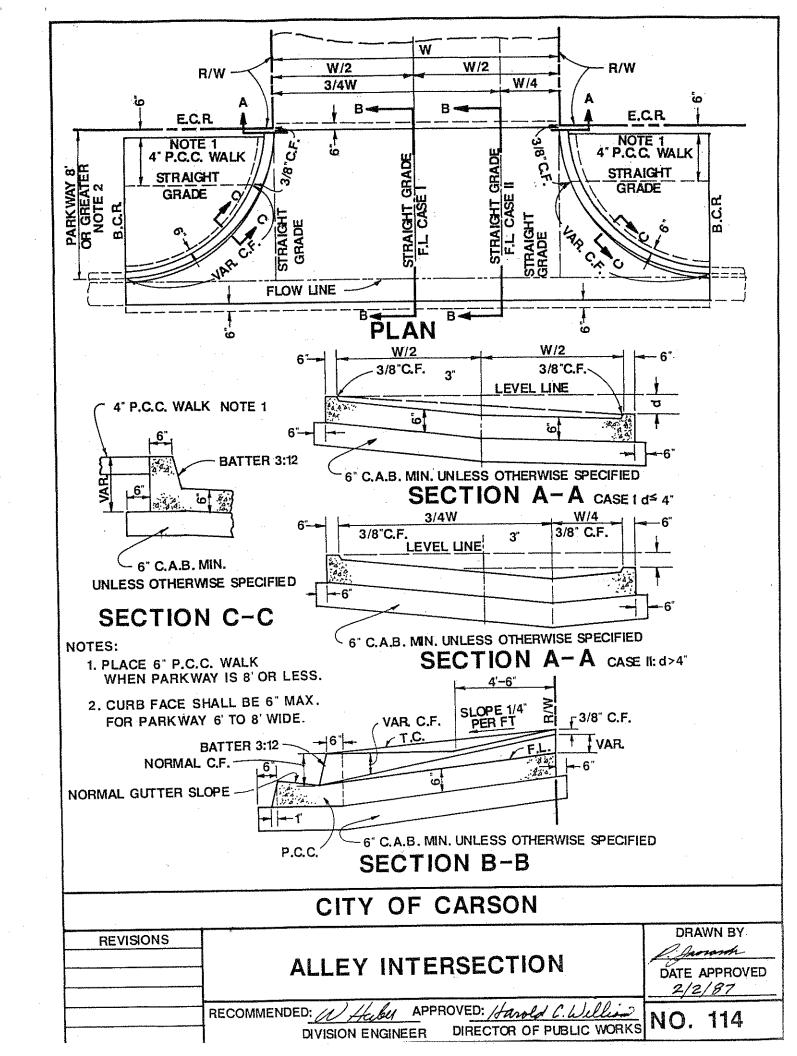


- 5 4-INCH MINIMUM C.A.B. AT 95% COMPACTION OVER SUBGRADE AT 90% COMPACTION
- 6 SHALL BE A MINIMUM OF 4-FT AND SHALL NOT EXCEED 2% CROSS SLOPE FOR ADA COMPLIANCE
- [7] STRAIGHT GRADE FROM BACK OF CURB TO FRONT OF SIDEWALK. G2 MINUS G1 SHALL NOT EXCEED 12%. G1 MIN= -1%
- 8 EASEMENT BEYOND THE RIGHT-OF-WAY MAY BE REQUIRED TO ACCOMODATE THIS STANDARD'S REQUIREMENTS
- 9 RAMP ADJACENT SIDEWALK (8.33% MAX) TO ACCOMODATE NOTE #9. NO ADDITIONAL EASEMENT REQUIRED
- 9 ALT | EASEMENT BEYOND THE RIGHT-OF-WAY MAY BE REQUIRED TO ACCOMODATE THIS STANDARD'S REQUIREMENTS

REVISIONS	DATE	COMMERCIA	AL DRIVEWAY -	CASE 2	DRAWN BY:
INCLUDED 7-9ALT	12/21/16	RECOMMENDED:	APPROVED:		RAYMOND H. VELASCO, P.E.
DATE APPROVED: SHEET 1 OF	F 1	CITY ENGINEER	DIRECTOR OF P	UBLIC WORKS	NO. 112



	CITY OF CARSON	
REVISIONS	CROSS GUTTER	DRAWN BY DATE APPROVED 2/2/87
7000	RECOMMENDED: W How APPROVED: Harslot William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	



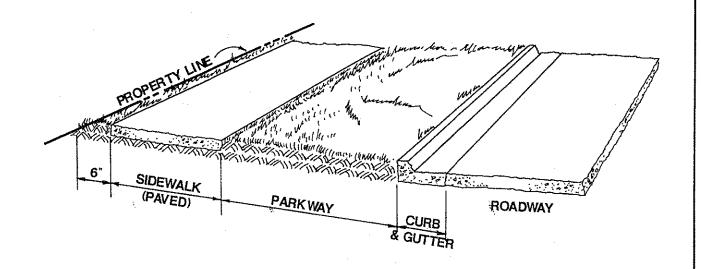
- CASE 1 Low and Medium Density Residential Areas. A minimum width sidewalk is placed in the rear portion of the parkway section, six inches from the property line, leaving a landscaping strip between the back of the curb and the sidewalk. Parkway trees are located in the areas reserved for landscaping. See standard drawing No. 116.
- CASE 2 High Density Residential and Commercial Areas. A full-width sidewalk is placed between the back of the curb and the rear portion of the parkway section, six inches from the property line. Parkway trees are located in tree wells, which are built into the sidewalk and fitted with tree well covers. See standard drawing No. 117.
- CASE 3 Industrial Areas. A full-width sidewalk is placed between the back of the curb and the rear portion of the parkway section, six inches from the property line, except in those areas designated on the Parkway Map as areas where sidewalks are not required. In these areas, landscaping shall be installed with a permanent irrigation system. See standard drawing No. 118.
- CASE 4 Special Development Areas. A meandering sidewalk is placed between the back of the curb and the rear portion of the parkway section, six inches from the property line. The meandering sidewalk is a modification of the full-width sidewalk design, with trapezoidal landscaping areas placed alternately at the front and rear of the parkway section, at 50 foot intervals. See standard drawing No. 119.

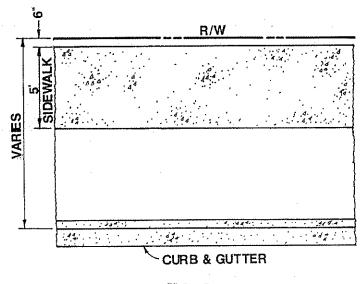
It should be noted that, in areas where service roads are constructed, the appropriate sidewalk design configuration should be constructed along the side of the service road adjacent to the adjoining lots, and the other side of the service road should be landscaped.

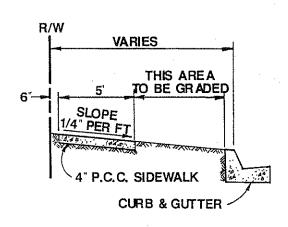
CITY OF CARSON REVISIONS SIDEWALK DESIGNATIONS DRAWN BY DATE APPROVED 2/2/87 RECOMMENDED: // Huber APPROVED: / Javald C. Williams No. 115

DIVISION FNGINEER

DIRECTOR OF PUBLIC WORKS







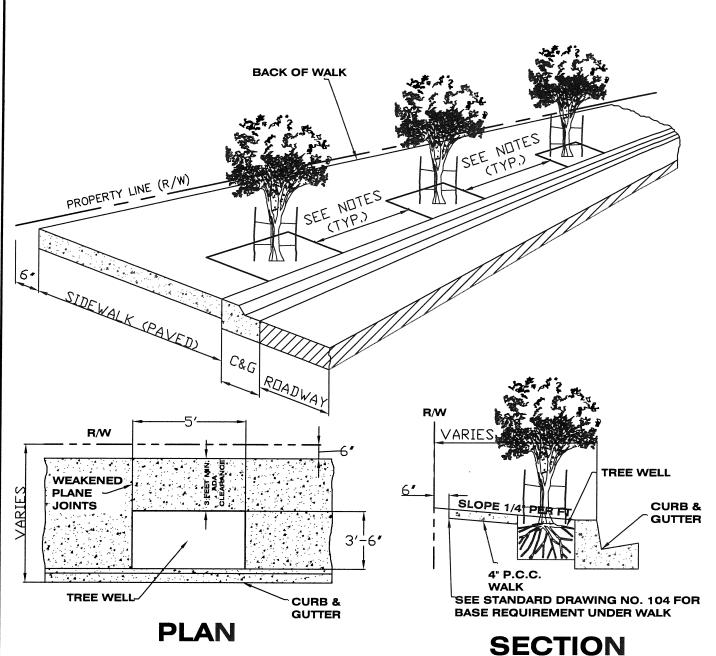
PLAN

SECTION

NOTES:

1. WEAKENED PLANE JOINTS TO BE 20 ON CENTER.

	CITY OF CARSON	
REVISIONS	CASE I SIDEWALK WITH PARKWAY	DRAWN BY DATE APPROVED 2/2/87
	RECOMMENDED: M Harber APPROVED: Harold C. Williams DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 116



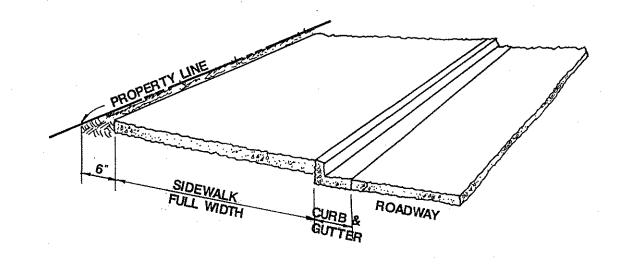
1. TREE WELLS SHALL BE SPACED APPROXIMATELY 50 FEET APART, BUT NOT LESS THAN ONE PER RESIDENTIAL LOT.

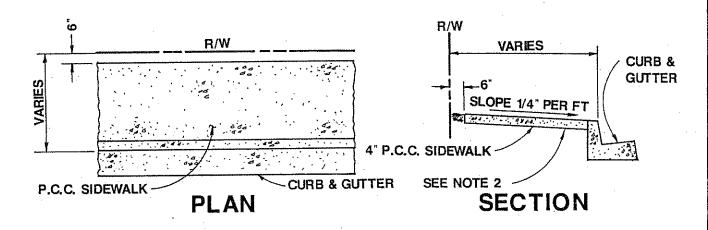
2. LOCATION OF TREE WELLS WILL BE SUBJECT TO THE FOLLOWING CONDITIONS:

- A. 50' FROM THE BCR ON THE APPROACH TO AN INTERSECTION AND 15' FROM THE ECR ON THE EXIT SIDE
 - B. 20' FROM LIGHT STANDARDS
 - C. 10' FROM FIRE HYDRANTS AND DRIVEWAYS
 - D. 5' FROM HOUSE WALKS AND UTILITY METERS
- 3. TREE WELLS ARE TO BE BACKFILLED WITH CLEAN DIRT AND FLUSH WITH THE ADJACENT WALK UNTIL TREES ARE PLANTED.
- 4. WEAKENED PLANE JOINTS TO BE 20' ON CENTER

DRAWING NOT TO SCALE

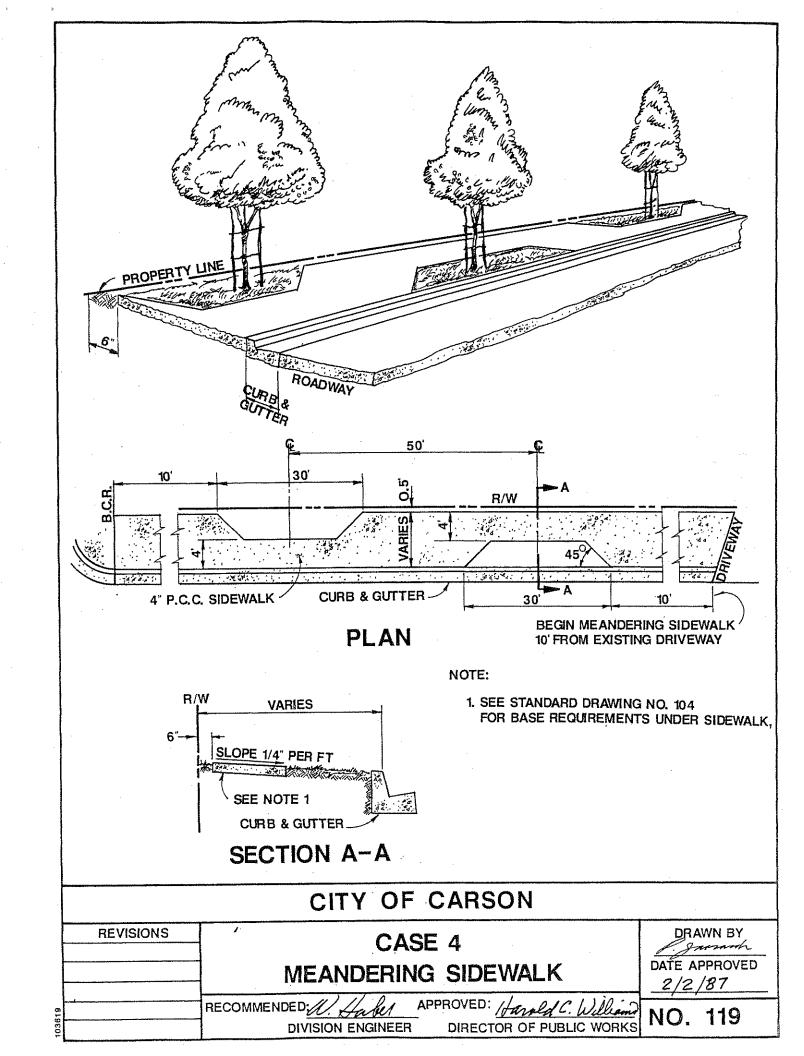
REVISIONS	DATE	CASE 2 FULL WIDT	H SIDEWALK WITH TREE WELLS	DRAWN BY:
WELL LENGTH FROM 3'-6" TO 5'	12/21/16	RECOMMENDED:	APPROVED:	JESUS SALDANA
DATE APPROVED:	F 1	CITY ENGINEER	DIRECTOR OF PUBLIC WORKS	NO. 117

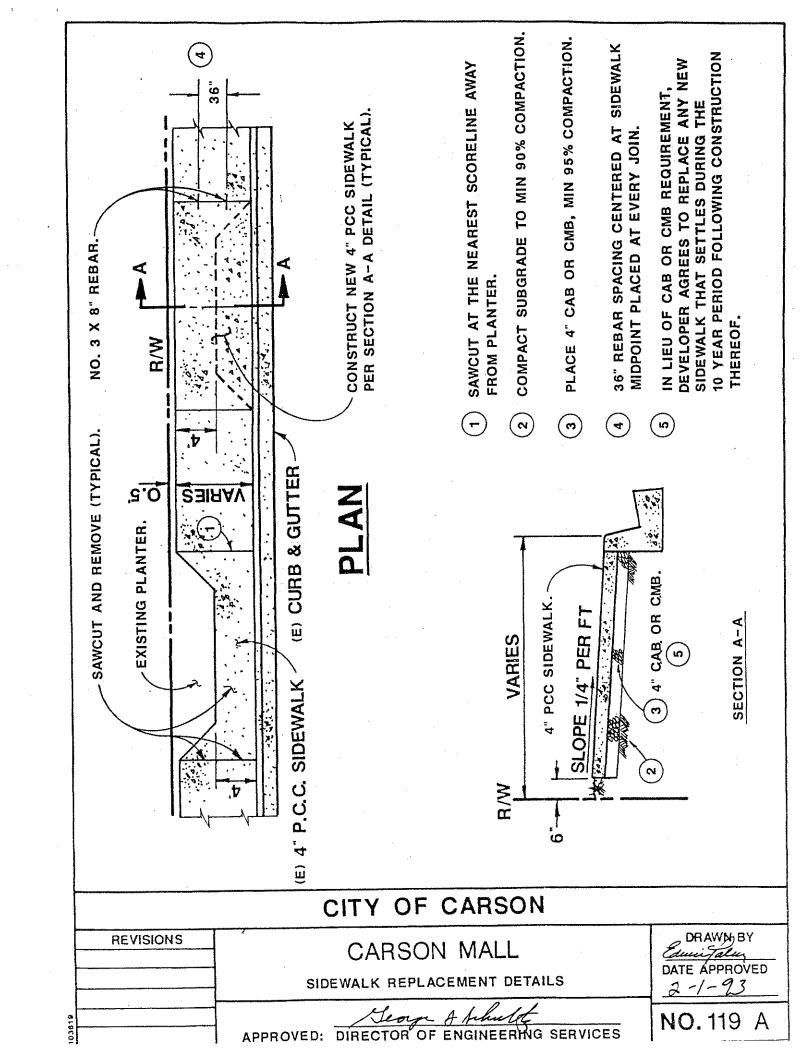


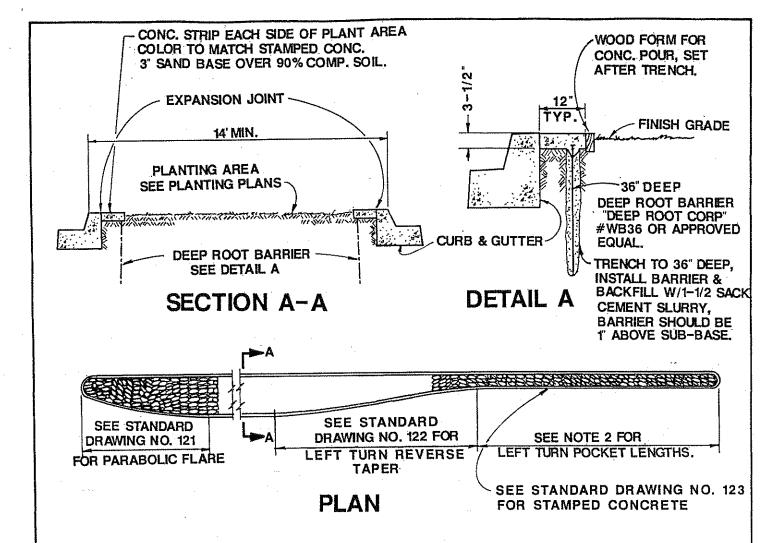


- 1. WEAKENED PLANE JOINTS TO BE 20' ON CENTER.
- 2. SEE STANDARD DRAWING NO.104 FOR BASE REQUIREMENTS UNDER SIDEWALK.

	CITY OF CARSON	
REVISIONS	CASE 3 FULL WIDTH SIDEWALK	DRAWN BY DATE APPROVED 2/2/87
9590	RECOMMENDED: // / APPROVED: /farold C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 118

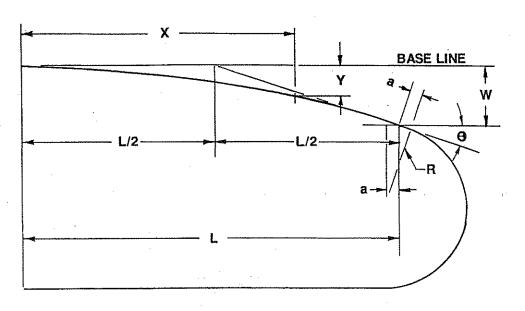






- 1. THE MEDIAN OPENING SHOULD NOT BE LESS THAN 660 FEET FROM ANY INTERSECTION WITH A STREET OR OTHER MEDIAN OPENING.
- 2. LEFT-TURN POCKET LENGTHS SHOULD BE 250 FEET FOR MAJOR OR SECONDARY HIGHWAY INTERSECTIONS AND 150 FEET FOR LOCAL AND COLLECTOR STREET INTERSECTIONS AND MID-BLOCK MEDIAN OPENINGS. THE DISTANCES SHOULD BE GREATER IF THE PROJECTED LEFT-TURN TRAFFIC VOLUMES INDICATE A NEED FOR LONGER LEFT-TURN LANES. ALL DISTANCES ARE MEASURED FROM THE CENTER OF THE INTERSECTION TO THE CENTER OF THE MEDIAN OPENING.

	CITY OF CARSON	
REVISIONS	TYPICAL MEDIAN SPACING @ INTERSECTIONS, TYPICAL MEDIAN CROSS SECTION	DRAWN BY DATE APPROVED 2/2/87
03619	RECOMMENDED: // fector APPROVED: /forold (NO. 120



Y=W(X/2)2

TAN 0=2W/L

a=R TAN 0/2

L=LENGTH OF FLARE IN FEET
W=MAXIMUM OFFSET DISTANCE IN FEET
X=DISTANCE ALONG BASE LINE IN FEET

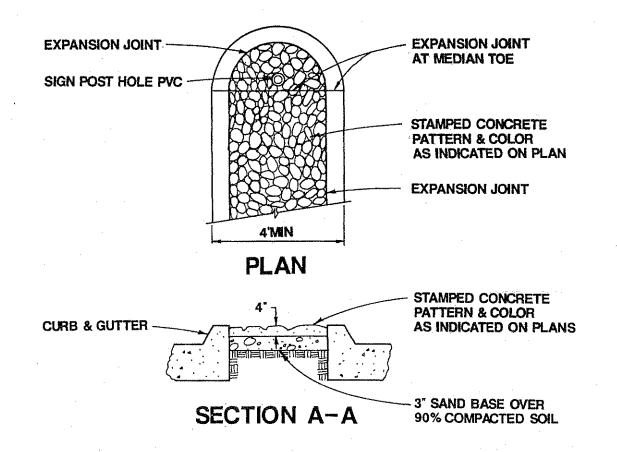
a=TANGENT
R= RADIUS OF NOSE IN FEET
Y=OFFSET FROM BASE LINE IN FEET

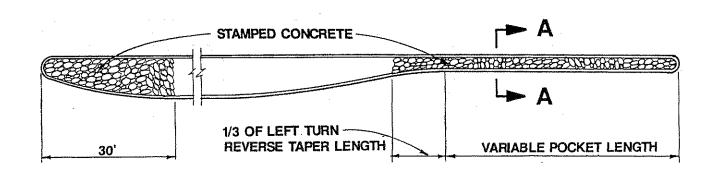
OFFSET "Y" (IN FEET) FOR W/L=1:10

	LX	10	20	30	40	50	60	70	80	90	100
14' MEDIAN	60	.17	.67	1.50	2.67	4.17	6.00	-	_		
24' MEDIAN	100	.10	.40	.90	1.60	2.50	3.60	4.90	6.40	8.10	10.00

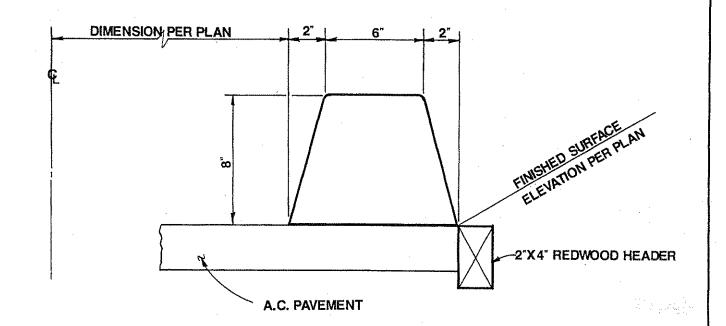
- 1. FOR 60' FLARE USE R=4', FOR 100'FLARE USE R=7'.
- 2. IF STATION OF RADIUS POINT IS NOT GIVEN ON PLAN, TAGENT "a" MAY BE IGNORED.

	CITY OF CARSON	
REVISIONS	PARABOLIC FLARE	DRAWN BY Samuel DATE APPROVED 2/2/87
03619	RECOMMENDED: White APPROVED: Harold (William) DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 121





	CITY OF CARSON	
REVISIONS	STAMPED CONCRETE	DRAWN BY DATE APPROVED 2/2/891
	RECOMMENDED: / Julian APPROVED: /Jarold C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 123

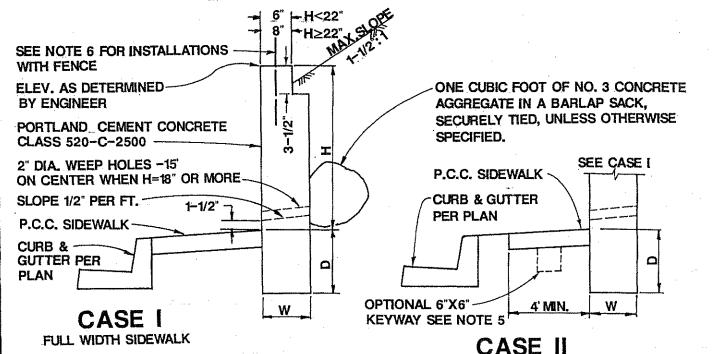


REVISIONS **ASPHALT CONCRETE BERM** RECOMMENDED: DIRECTOR OF PUBLIC WORKS

DIVISION ENGINEER

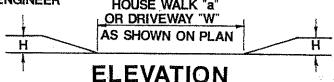
DRAWN BY DATE APPROVED

WALK OR FILL-IN REPLACEMENT FOR EXCAVATIONS MADE PARALLEL TO CURB OR PROPERTY LINE. WALK 5 FT_WIDE OR WIDER WALK LESS THAN, 5 FT. WIDE WALK ADJACENT TO PROPERTY LINE WALK ADJACENT TO PROPERTY LINE IF LESS THAN 30 INCHES REPLACE ENTIRE WALK REPLACE WALK LESS THAN IN ITS ENTIRETY SAW CUT~ 5 FT. WIDE EXCAVATION. EXCAVATION WALK 5 FT REPLACE 30 INCHES MIN WIDE OR WIDER SAWCUT IF SCORELINE EARTH OR CONCRETE FILL-IN EARTH OR CONCRETE FILL CURB CURB GUTTER GUTTER WALK ADJACENT TO CURB WALK ADJACENT TO CURB LESS THAN REPLACE WALK EXCAVATION (REPLACE 30 INCHES MIN. meerizael IN ITS ENTIRETY IF LESS THAN 30 INCHES REPLACE THE ENTIRE WALK CURB SAWCUT WALK 5 FT CURE WIDE OR WIDER GUTTER GUTTER FILL-IN LESS THAN 5 FT WIDE FILL-IN 5 FT. WIDE OR WIDER IF LESS THAN 30 INCHES WALK REPLACE ENTIRE FILL-IN WALK SAWCUT IF SCORELINE SAWCUT IF SCORELINE LESS THAN REPLACE FILL-IN IN ITS ENTIRETY EXCAVTION ((EXCAVATION WWW REPLACE 30 INCHES - CURB WIDE OR WIDER CURA 4 GUTTER GUTTER WALK OR FILL-IN REPLACEMENT FOR EXCAVATIONS MADE NORMAL TO CURB OR PROPERTY LINE. (THESE REQUIREMENTS ALSO APPLY TO ENDS OF PARALLEL EXCAVATIONS.) IF EXCAVATION FALLS WITHIN 30 INCHES OF EXPANSION JOINT, CONSTRUCTION JOINT, WEAKENED PLANE JOINT, CRACK OR EDGE, THE CONCRETE SHALL BE REMOVED AND REPLACED TO THE JOINT, CRACK OR EDGE. IF AN EXCAVATION FALLS WITHIN 12 INCHES OF A SCORE LINE, THE CONCRETE SHALL BE REMOVED AND REPLACED TO THE SCORE LINE. THE SCORE LINE SHALL BE WALK 30"MIN SAWCU" EXCAVA SHALL BE REMOVED AND I FILL-IN THE MINIMUM LENGTH OF REPLACEMENT IN BOTH CASES SHALL BE 30 INCHES. CURB GUTTER DRIVEWAY REPLACEMENT CASE I DRIVEWAY -PARKWAY PL-WALK CASE II END SECTION CASE I END CASE II DRIVEWAY SECTION MID-SECTION PARKWAY SEE NOTES 4 & 6 CURB ~ GUTTER 30" 1 APRON -+x-+30--tslope - SLOPE NOTES: 1. CONCRETE WALK, FILL-IN AND DRIVEWAYS REMOVED IN CONNECTION WITH CONSTRUCTION SHALL BE REPLACED TO "NEATLY SAWED EDGES" SAW CUTS SHALL BE A MINIMUM OF I-V2" DEEP IN CONCRETE OVER 4" THICK AND 1" DEEP IN CONCRETE 4" OR LESS IN THICKNESS. ALL CUTS SHALL BE PARALLEL TO OR PERPENDICULAR TO THE CURB; ON CURVES, THE CUT SHALL BE RADIAL TO THE CURB. 2. A SCORE LINE OR MARK IS DEFINED AS A LINE MADE WITH A JOINTER TOOL 1/2" DEEP OR LESS AND NO MORE THAN 1/8" WIDE. 3. DRIVEWAY APRONS IN WHICH THE "W" DISTANCE IS LESS THAN II FT. SHALL BE REPLACED IN THEIR ENTIRETY IF CUT IN ANY AREA. 4. DRIVEWAY APRONS IN WHICH THE "W" DISTANCE IS II FT. OR MORE MAY BE CUT IN THE MID-SECTION AREA. THE MINIMUM REPLACEMENT SHALL BE 30" IN LENGTH. THE MINIMUM DISTANCE ALLOWED BETWEEN SUCH CUTS SHALL BE 14 FT. 5. DRIVEWAY APRONS IN WHICH THE "W"DISTANCE IS II FT. OR MORE MAY BE CUT IN THE END-SECTION, REPLACEMENT SHALL BE THE ENTIRE END-SECTION. 6.DRIVEWAY APRONS SHALL BE REPLACED FROM THE BACK OF THE CURB TO THE FRONT EDGE OF THE WALK; EXCEPT, WHERE WALK IS ADJACENT TO CURB, REPLACEMENT SHALL BE FROM BACK OF CURB TO BACK OF WALK. 7. WALK PORTIONS OF DRIVEWAYS SHALL BE REPLACED AS SHOWN ABOVE FOR EXCAVATIONS MADE PARALLEL OR NORMAL TO CURB. CITY OF CARSON SIDEWALK & DRIVEWAY DRAWN BY REVISIONS garande REPLACEMENT DATE APPROVED 187 2/2 RECOMMENDED: /// APPROVED: NO. 128 DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS



SLOPE 3:1 OR AS DETERMINED BY ENGINEER PARTIAL WIDTH SIDEWALK
HOUSE WALK "a"

C	CONCRETE VOLUME TABLE					
H-IN.	D-IN.	W-IN.	AREA- S.F.	VOL C.Y./C.F.		
6	6	6	0.50	0.019		
7	6	6	0.54	0.020		
8	6	6	0.58	0.022		
9	6	6	0.63	0.023		
10	6	.6	0.67	0.025		
11	6	6	0.71	0.026		
12	6	6	0.75	0.028		
13	6	6	0.79	0.029		
14	7	6	88.0	0.032		
15	7	6	0.92	0.034		
16	8	8	1.28	0.048		
17	8	8	1.34	0.050		
18	9	8	1.45	0.054		
19	9	8	1.51	0.056		
20	10	-8	1.62	0.060		
21	10	8	1.67	0.062		
22	11	10	2.24	0.083		
23	11	10	2.31	0.086		
24	12	10	2.45	0.091		
26	13	10	2.66	0.099		
28	14	10	2.87	0.106		
30	15	10	3.08	0.114		
32	16	10	3.28	0.122		
34	17	10	3,49	0.129		
36	18	10	3.70	0.137		



WALL TRANSITION AT DRIVEWAY OR HOUSEWALK

NOTES:

- 1. CONCRETE SLOUGH WALL TO BE USED ONLY IN CONJUNCTION WITH SIDEWALK ABUTTING THE WALL.
- 2. BACKFILL SHALL NOT BE PLACED BEHIND WALL UNTIL SIDEWALK IS IN PLACE.
- 3. NO MECHANICAL COMPACTION ON WALL BACKFILL SHALL BE PERMITTED.
- 4. EXPANSION JOINTS SHALL BE PLACED AT 50'INTERVALS OR AS DIRECTED BY ENGINEER.
- 5. HEIGHT LIMITS AS FOLLOWS:

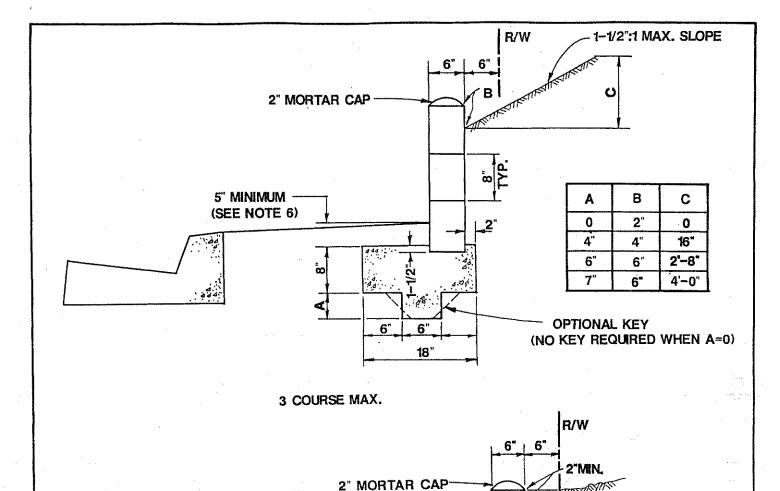
CASE I:

MAXIMUM H=36 INCHES

CASE II:

- A FOR SLOPE BETWEEN 3:1 AND 1-1/2:1 MAX.H=12 INCHES
- B FOR SLOPE 3:1 OR FLATTER MAX. H=12 INCHES.
- C WITH 6"X6" KEYWAY, WALL HEIGHT MAY INCREASE TO 10 INCHES
- 6. WHERE FENCING IS INSTALLED AT TOP OF WALL THE MIN. WALL THICKNESS SHALL BE 8 INCHES AND D SHALL BE MIN. OF 12 INCHES.

	,	Off I Of Oration				
	REVISIONS		DRAWN BY			
		CONCRETE SLOUGH WALL	DATE APPROVED			
			2/2/87			
49		RECOMMENDED: // Habes APPROVED: Harold C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO 120			
1036		DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	140. 123			

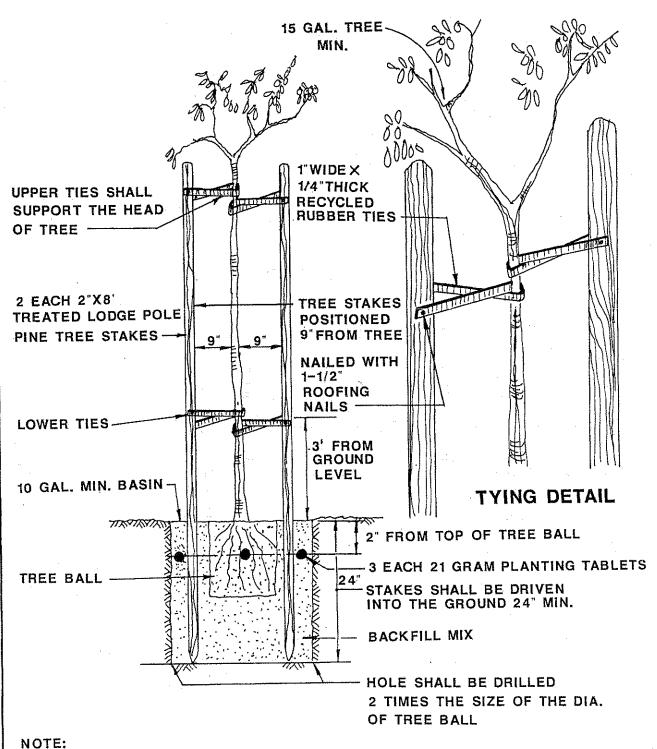


5" MIN. (SEE NOTE 6)

2 COURSE MAX.

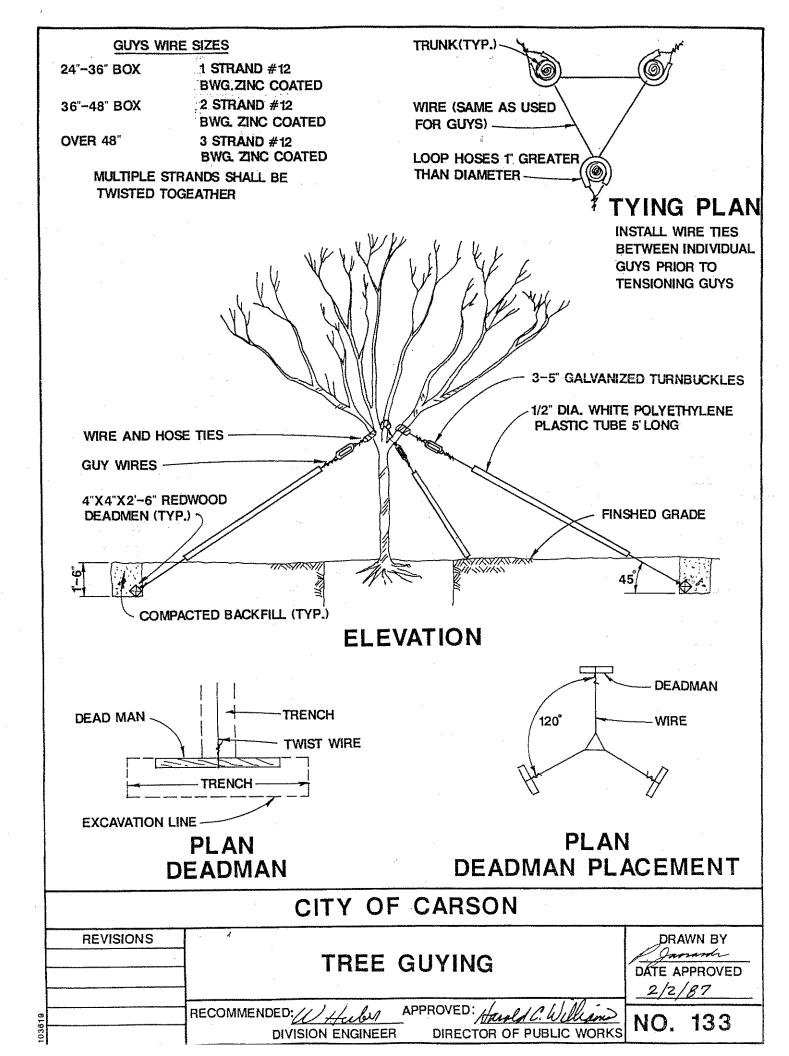
- 1 ALL CELLS TO BE FILLED SOLID WITH GROUT AND RODDED.
- 2. OMIT MORTAR FROM VERTICAL JOINTS IN FIRST COURSE ABOVE FINISHED GRADE ON 32" CENTERS FOR WEEP HOLES.
- 3. POUR FOOTING AGAINST UNDISTURBED NATURAL SOIL.
- 4. NO LIVE LOAD SURCHARGE ALLOWED ON FILL.
- 5. POOTING TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE.
- 6. TOP OF FOOTING MAY BE PLACED PARALLEL TO PARKWAY GRADE IF STREET GRADE IS RELATIVELY

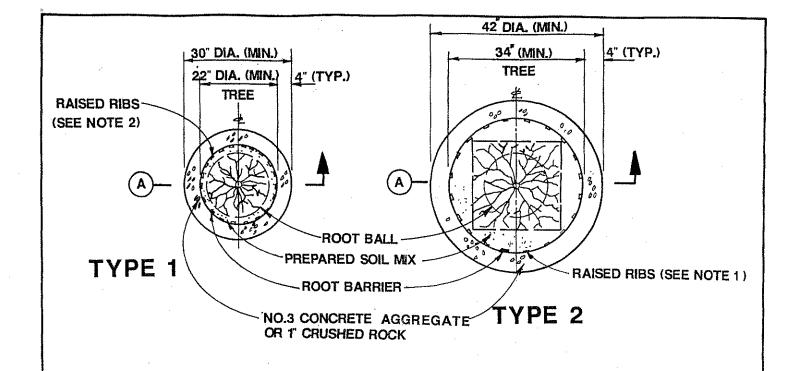
	CITY OF CARSON	
REVISIONS	CONCRETE BLOCK SLOUGH WALL	DRAWN BY DATE APPROVED 2/2/87
103619	RECOMMENDED: When APPROVED: Harold C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 130

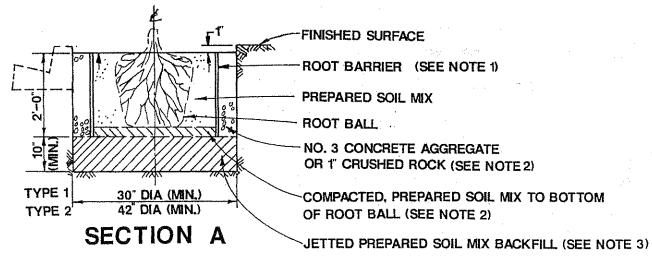


SEE STANDARD DRAWING NO.134 FOR TREE ROOT BARRIER

	CITY OF CARSON	
REVISIONS	PARKWAY TREE PLANTING,STAKING AND TYING DETAILS	DRAWN BY P. SAMMARY DATE APPROVED
0103619	RECOMMENDED: APPROVED: DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 132

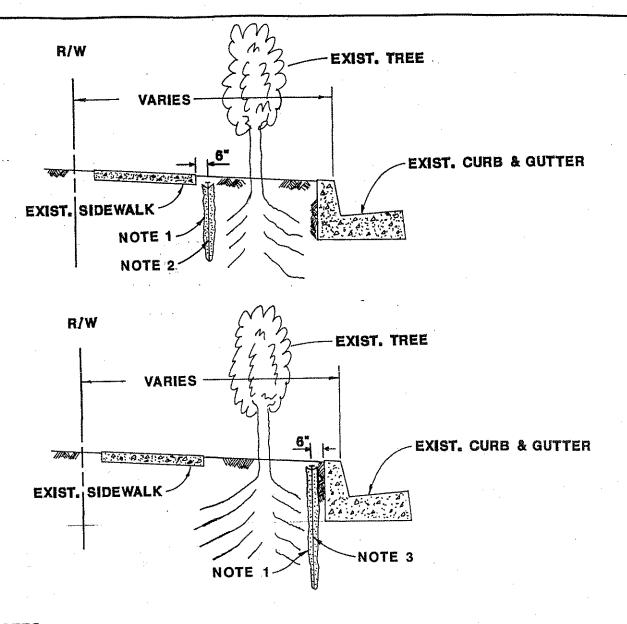






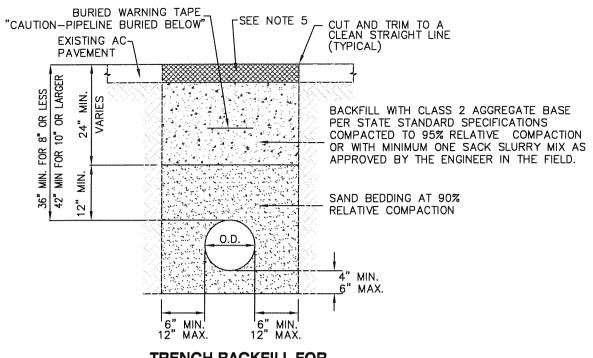
- 1 ROOT BARRIER SHALL BE FABRICATED FROM A HIGH DENSITY AND HIGH COMPACT PLASTIC SUCH AS POLYVINAL CHLORIDE, ABS OR POLYETHYLENE AND HAVE A MIN. THICKNESS OF 0.06 INCH. THE PLASTIC SHALL HAVE 1/2"-3/4" HIGH RAISED VERTICAL RIBS ON THE INNER SURFACE SPACED NOT MORE THAN 6"-8" APART.
- 2 THE LOWER 10" OF EXCAVATION SHALL BE BACKFILLED WITH PREPARED SOIL MIX AND JETTED PRIOR TO PLACING THE ROOT BARRIER AND THE NO. 3 CONCRETE AGGREGATE, OR 1" CRUSHED ROCK.
- 3 PREPARED SOIL MIX SHALL BE PLACED IN THE PLANTING HOLE AND COMPACTED TO BOTTOM OF ROOT BALL ELEVATION PRIOR TO PROCEEDING WITH TREE PLATING.

	CITY OF CARSON	
REVISIONS	TREE ROOT BARRIER	DRAWN BY Samuel DATE APPROVED 2/2/87
103619	RECOMMENDED: W. Hard C. W. Bleson DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	

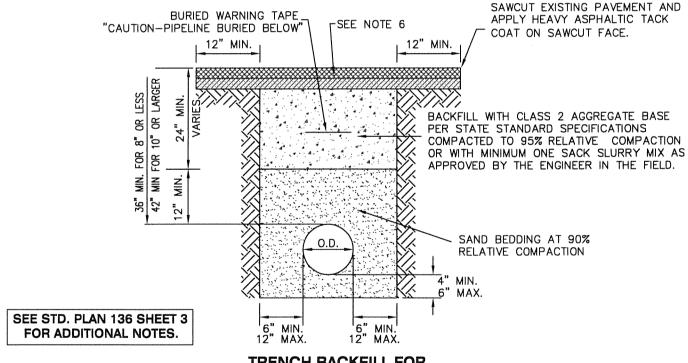


- 1. TRENCH AND INSTALL ROOT BARRIER 1" ABOVE TRENCH BOTTOM AND BACKFILL WITH 1 1/2 SACK CEMENT SLURRY. LEAVE TOP OF ROOT BARRIER 1" BELOW GRADE.
- 2. 12" DEEP ROOT BARRIER 'DEEP ROOT CORP.' TYPE RB-12 OR EQUAL.
- 3. 24" DEEP ROOT BARRIER 'DEEP ROOT CORP.' TYPE UB-24 OR EQUAL.
- 4. CENTER 6 LONG BARRIER AT TREE 6 FROM CONCRETE.

	CITY OF CARSON	
REVISIONS	TREE ROOT BARRIER	DRAWN BY
	DETAILS	DATE APPROVED 1-26-93
03819	APPROVED: Jense J Mhill DIRECTOR OF ENGINEERING SERVICES	NO. 134 A



TRENCH BACKFILL FOR TEMPORARY ASPHALT REPAIR (OPTIONAL)

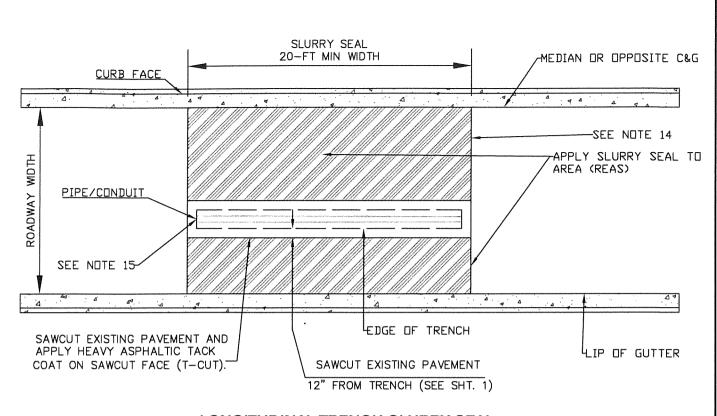


TRENCH BACKFILL FOR PERMANENT ASPHALT REPAIR

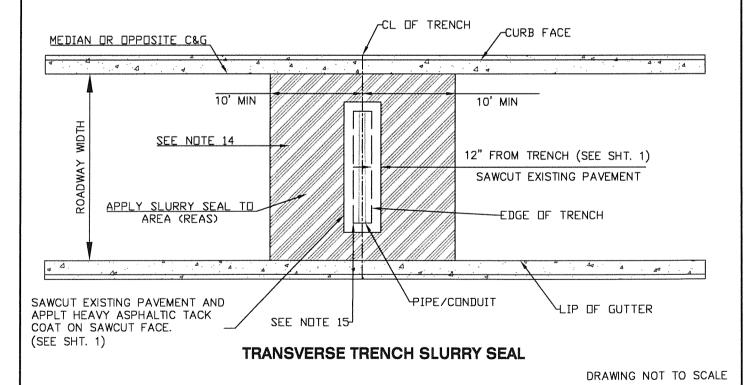
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CITY OF CARSON

ADDED SHEET 2 OF 3 12/21/16 PECOMA		100001ED		
REVISED NOTE 14 OF SHEET 3 1/25/17	MENDED:	APPROVED:	GILBERT MARQ	UEZ, P.E.
DATE APPROVED: SHEET 1 OF 3	053/	DIRECTOR OF PUBLIC WORKS	NO.	136



LONGITUDINAL TRENCH SLURRY SEAL



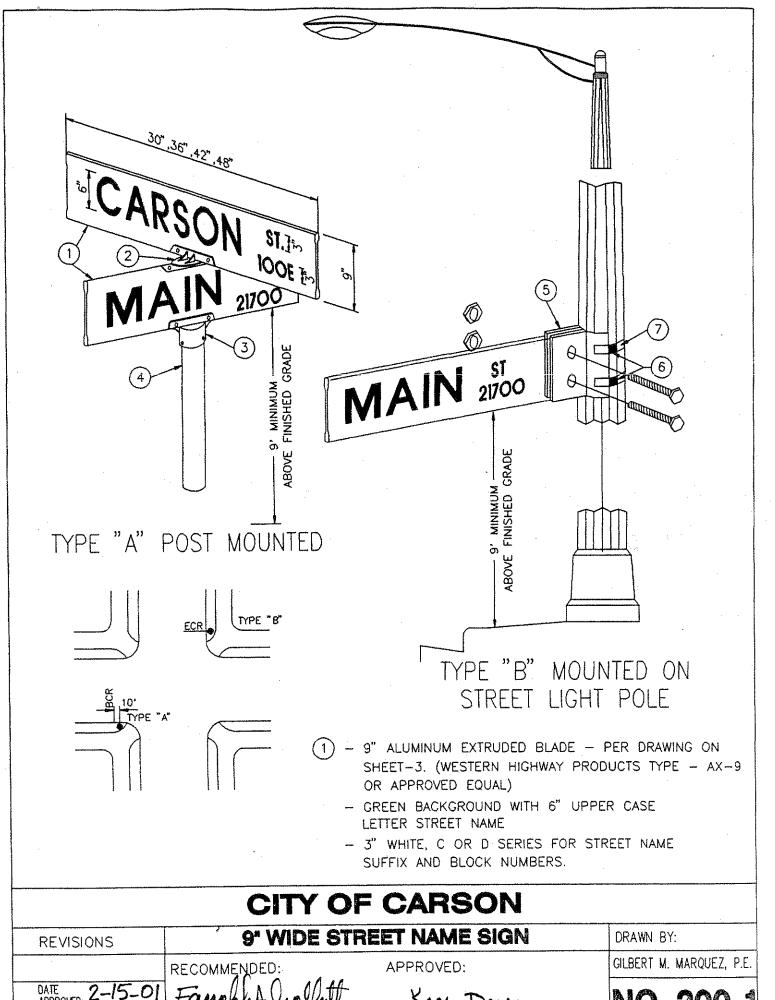
CITY OF CARSON

	0.00					
REVISIONS	DATE	TRENCH BAC	KFILL & PAVEMENT	REPAIRS	DRAWN BY:	
ADDED SHEET 2 OF 3	12/21/16 1/25/17	RECOMMENDED:	APPROVED:		JESUS SALDA	NA
REVISED NOTE 14 OF SHEET 3	1/25/17		~ 100	1.1.		
DATE APPROVED: SHEET 2 O	F 3	CITY ENGINEER	DIRECTOR OF PUB	1/26/1/ BLIC WORKS	NO.	136

- 1.) ALL BACKFILLS SHALL BE MECHANICALLY COMPACTED BY MEANS OF TAMPING ROLLERS, SHEEPSFOOT ROLLERS, PNEUMATIC TIRE ROLLER, VIBRATING ROLLER, OR OTHER MECHANICAL TAMPERS. ALL SUCH EQUIPMENT SHALL BE OF A SIZE AND TYPE APPROVED BY THE ENGINEER. IMPACT—TYPE PAVEMENT BREAKERS (STOMPERS) WILL NOT BE PERMITTED OVER CLAY, ASBESTOS—CEMENT, PLASTIC, CAST IRON OR NONREINFORCED CONCRETE PIPE.
- 2.) ALL TRENCHES SHALL BE BACKFILLED AND TEMPORARY A.C. PLACED AT THE END OF EACH WORK DAY. THE ENGINEER IN THE FIELD MAY AUTHORIZE STEEL PLATING WITH AC RAMPS.
- 3.) ALL TRAFFIC LANES SHALL BE CLEANED AND RESTORED TO USE IMMEDIATELY UPON PLACEMENT OF TEMPORARY AC PAVEMENT AND FINAL PAVEMENT AC PAVEMENT.
- 4.) ALL TRAFFIC STRIPING AND OR MARKINGS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AS DIRECTED BY THE ENGINEER IN THE FIELD AND AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
- 5.) CONTRACTOR MAY AT HIS OPTION CONSTRUCT A 0.20' THICK (MIN.) TEMPORARY AC PATCH FLUSH WITH EXISTING PAVEMENT. COLD MIX WILL NOT BE PERMITTED. PATCH SHALL BE MAINTAINED IN PLACE UNTIL ALL UNDERGROUND WORK HAS BEEN COMPLETED.
- 6.) PERMANENT ASPHALT REPAIR SHALL BE A MINIMUM OF 0.15' THICK C2-AR-4000 ASPHALT CONCRETE MIX OVER 0.25' THICK B-AR-4000 ASPHALT OR TOTAL ASPHALT THICKNESS SHALL BE 0.10' THICKER THAN EXISTING PAVEMENT SECTION-WHICHEVER IS GREATER AND OR AS DIRECTED BY THE ENGINEER IN THE FIELD. ASPHALT SHALL MEET GREEN BOOK SPECIFICATIONS.
- 7.) TRAFFIC CONTROLS SHALL BE PER W.A.T.C.H. MANUAL.
- 8.) WITHIN 14 DAYS AFTER COMPLETION OF CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER IN THE FIELD , THE TEMPORARY A.C. SHALL BE REMOVED AND PERMANENT PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH THE ABOVE.
- 9.) ONLY ON PROPOSED NEW STREETS, NATIVE MATERIALS MAY BE USED FOR TRENCH BACKFILL AS AN ALTERNATE TO CLASS 2 AGGREGATE BASE BACKFILL ON SECTION BETWEEN 24" BELOW THE SURFACE AND 12" ABOVE THE TOP OF PIPE, IF THE S.E. VALUE OF THE NATIVE MATERIAL IS 30 OR GREATER. THE CONTRACTOR SHALL PROVIDE, AT HIS EXPENSE, COMPACTION TESTS AT INTERVALS NOT TO EXCEED 50 LINEAR FEET (6" TO 8" LIFT AT A TIME) PERFORMED BY AN APPROVED SOILS LABORATORY.
 - ALL PROPOSED TRENCHES ON EXISTING STREETS SHALL BE BACKFILLED WITH CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION OR WITH MINIMUM ONE SACK SLURRY MIX AS APPROVED BY THE ENGINEER IN THE FIELD.
- 10.) ROCKS GREATER THAN 6 INCHES IN ANY DIMENSION WILL NOT BE PERMITTED IN BACKFILL PLACED BETWEEN 1 FOOT ABOVE THE TOP OF ANY PIPE OR BOX AND 1 FOOT BELOW PAVEMENT SUBGRADE.
- 11.) ROCKS GREATER THAN 2-1/2 INCHES IN ANY DIMENSION WILL NOT BE PERMITTED IN BACKFILL PLACED WITHIN 1 FOOT OF PAVEMENT SUBGRADE.
- 12.) WHERE ROCKS ARE INCLUDED IN THE BACKFILL, THEY SHALL BE MIXED WITH SUITABLE EXCAVATED MATERIALS TO ELIMINATE VOIDS. THE MATERIAL OBTAINED FROM PROJECT EXCAVATIONS MAY BE USED AS BACKFILL PROVIDED THAT ALL ORGANIC MATERIAL, RUBBISH, DEBRIS, AND OTHER OBJECTIONABLE MATERIALS ARE FIRST REMOVED. HOWEVER, BROKEN PORTLAND CEMENT CONCRETE AND BITUMINOUS—TYPE PAVEMENT OBTAINED FROM THE PROJECT EXCAVATION WILL BE PERMITTED IN THE BACKFILL SUBJECT TO THE SAME LIMITATION AS ROCKS.
- 13.) WHERE CONCRETE PAVEMENT IS EXISTING AND REMOVED, IT SHALL BE REPLACED WITH THE SAME THICKNESS NOT LESS THAN 8" IN FULL SIZE PANELS UNLESS OTHERWISE APPROVED BY THE ENGINEER IN THE FIELD.
- 14.) STREET SHALL BE SLURRY SEALED FROM CURB TO CURB OR FROM MEDIAN TO CURB, WHEN MEDIANS ARE EXISTING, FOR THE WHOLE LONGITUDINAL LENGTH OF THE TRENCH CUT AND FOR AN EXTENDED 10 FEET MEASURED FROM THE CENTERLINE OF THE TRENCH WHEN TRANSVERSE, OR AS APPROVED BY THE ENGINEER IN THE FIELD. MATERIALS FOR SLURRY SEALING SHALL BE RUBBERIZED EMULSION AGGREGATE SLURRY.
- 15.) THE FINAL TRENCH PAVING MUST BE AS WIDE AS THE WIDEST POINT OF EXCAVATION TO INCLUDE ANY BELL CONNECTIONS ETC. IF THE ORIGINAL TRENCH IS WITHIN 3' OF ANY GUTTER OR CURBS, THE PERMANENT TRENCH PAVING SHALL EXTEND TO THE EDGE OF THE GUTTER/CURB.

CITY OF CARSON

REVISIONS	DATE	TRENCH BACKFIL	L & PAVEMENT REP	AIRS	DRAWN BY:	
ADDED SHEET 2 OF 3	12/21/16	RECOMMENDED:	APPROVED:		GILBERT MARC	DUEZ. P.E.
REVISED NOTE 14 OF SHEET 3	1/25/17	ľ				
DATE APPROVED:		6	/ MW - 11	26/17	NO-	136
SHEET 3 O	F 3	CITY ENGINEER	DIRECTOR OF PUBLICA	WORKS		

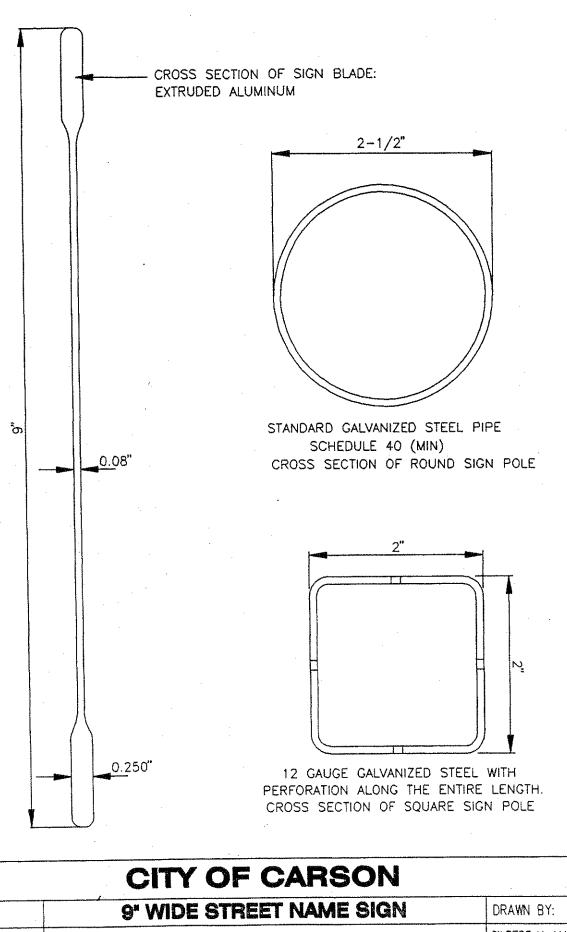


SHEET 1 OF 3 CIVIL ENGINEERING MANAGER DIRECTOR OF PUBLIC WORKS

- (2) EXTRUDED ALUMINUM 90 CROSSPIECE (STYLE 808 EX OR EQUAL)
- (3) EXTRUDED ALUMINUM CAP:
 - FOR 2-1/2" O.D. PIPE (STYLE 808 EX-VP OR EQUAL)
 - FOR SQUARE POST (STYLE 850 LONG EX-VP OR EQUAL)
- 4 2-1/2" O.D. SCHEDULE 40 GALVANIZED STEEL POST PLACE IN 8" DIAMETER 2'6" DEEP PCC FOOTING. PROVIDE CROSS BAR IN CONCRETE. POST SHALL BE 3'00" FROM CURB FACE.
- (5) EXTRUDED ALUMINUM CANTILEVER BRACKET FOR 9" BLADES (STYLE 730-9 OR EQUAL)
- 6 201 STAINLESS STEEL 3/4" BUCKLE (BAND IT EDP NO. 13256, (CAT NO. C 256 OR EQUAL)
- 7 201 STAINLESS STEEL BAND, 3/4" WIDE (BAND IT EDP NO. 13206, (CAT NO. C 206 OR EQUAL)

- A) LETTERS SIZE, STYLE, SPACING AND FIGURES SHALL CONFORM TO THE CURRENT STANDARD ESTABLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
- B) ALL BACKGROUND & LETTER MATERIALS SHALL BE AT LEAST 3M VIP. GRADE REFLECTORIZED MATERIALS OR APPROVED EQUAL.
- C) EACH SIDE OF EACH BLADE SHALL BE PROTECTED WITH SCOTCHLITE PREMIUM PROTECTIVE OVERLAY FILM SERIES 1160 OR APPROVED EQUAL. THAT PROVIDES A BARRIER TO PERMANENT STAINING FROM COMMON GRAFFITI.
- D) THE CONTRACTOR SHALL GUARANTEE ALL MECHANICAL EQUIPMENT INSTALLED AND WILL FULLY MEET ALL REQUIREMENTS AS TO QUALITY OF SUCH EQUIPMENT FURNISHED. THE CONTRACTOR SHALL MAKE, AT HIS OWN EXPENSE, ANY REPAIRS OR REPLACEMENT MADE NECESSARY BY DEFECTS IN SUCH EQUIPMENT FURNISHED THAT BECOMES EVIDENT WITHIN TWELVE MONTHS AFTER FILING OF THE NOTICE OF COMPLETION OF THE WORK AND TO RESTORE TO FULL COMPLIANCE WITH THE REQUIREMENTS OF THESE SPECIFICATIONS, ANY SUCH EQUIPMENT WHICH DURING THE TWELVE MONTH PERIOD IS FOUND TO BE DEFICIENT WITH RESPECT TO ANY PROVISIONS OF THE PLANS AND SPECIFICATIONS.

	CITY OF	CARSON	
REVISIONS	9" WIDE STR	EET NAME SIGN	DRAWN BY:
	RECOMMENDED:	APPROVED:	GILBERT M. MARQUEZ, P.E.
DATE APPROVED: 2-15-01 SHEET 2 OF 3	Fanokh A Gulfath.	Len Boyo DIRECTOR OF PUBLIC WORKS	NO. 200-1



REVISIONS

9' WIDE STREET NAME SIGN

PRAWN BY:

APPROVED:

APPROVED:

GILBERT M. MARQUEZ, P.E.

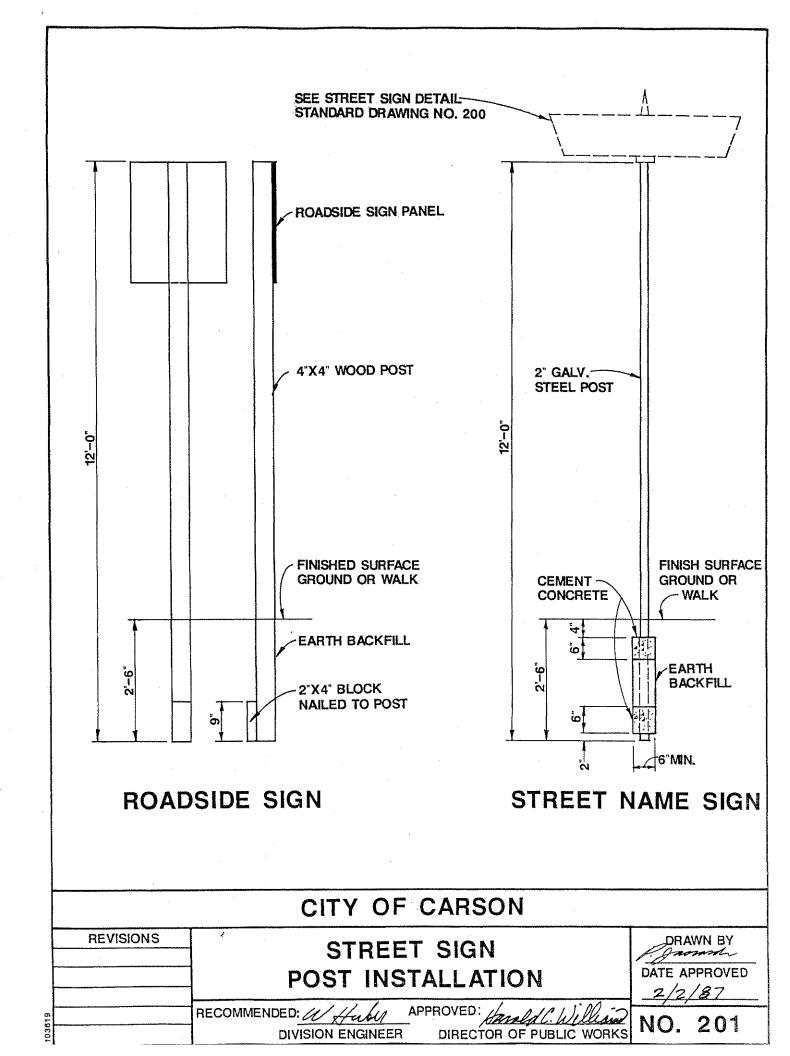
GILBERT M. MARQUEZ, P.E.

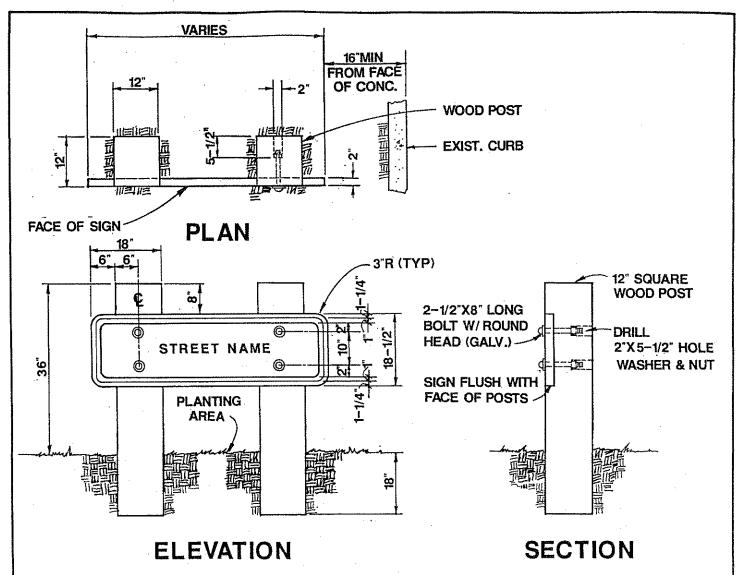
DATE
APPROVED:

CIVIL ENGINEERING MANAGER

DIRECTOR OF PUBLIC WORKS

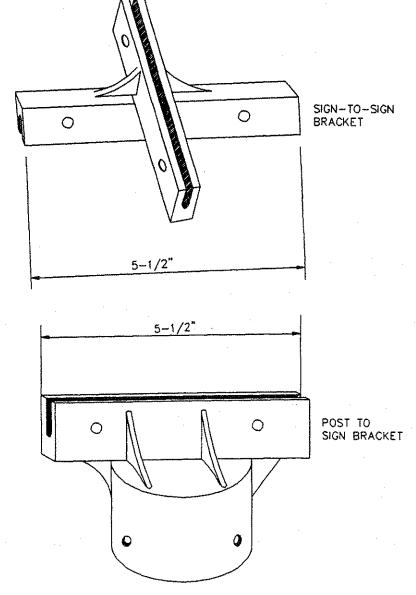
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- 1. ALL ROUGH SAWN WOOD TO BE STAINED W/OLYMPIC SEMI-TRANSPARENT STAIN # 712 OR APPROVED EQUAL.
- 2. ALL LETTERING TO BE "ROBERTA" TYPE STYLE.
- 3. RAISED BORDER & LETTERING TO BE PAINTED W/3M SCOTCH-LITE REFLECTIVE LIQUID, OR APPROVED EQUAL, COLOR:YELLOW.
- 4, SHOP DRAWING OF SIGN LAYOUTS TO BE SUBMITTED TO ENGINEER FOR APPROVAL.
- 5. PRESERVATIVES USED FOR WOOD IN CONTACT WITH GROUND SHALL BE LIMITED TO:
 - A. CREOSOTE OR CREOSOTE SOLUTIONS
 - B. PENTACHLOROPHENOL
 - C. AMMONIACAL COPPER ARSENATE
 - D. CHROMATED COPPER ARSENATE

	CITY OF CARSON	
REVISIONS	MEDIAN SIGN	DRAWN BY DATE APPROVED 2/2/87
03619	RECOMMENDED: State APPROVED: Sarold C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	



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

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.

FOR ROUND POLE

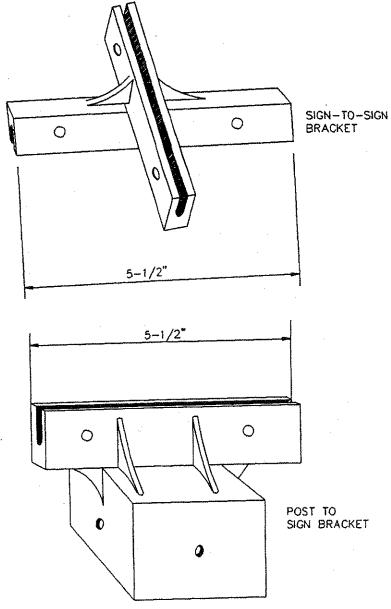
CITY OF CARSON REVISIONS STREET NAME SIGN MOUNTING BRACKET (FLAT OR EXTRUDED) DATE 2 5 01 RECOMMENDED . 0 1014 APPROVED:

APPROVED: 2-13-01 SHEET 1 OF 2 Found Aliolath.

DIRECTOR OF PUBLIC WORKS

NO. 202-R

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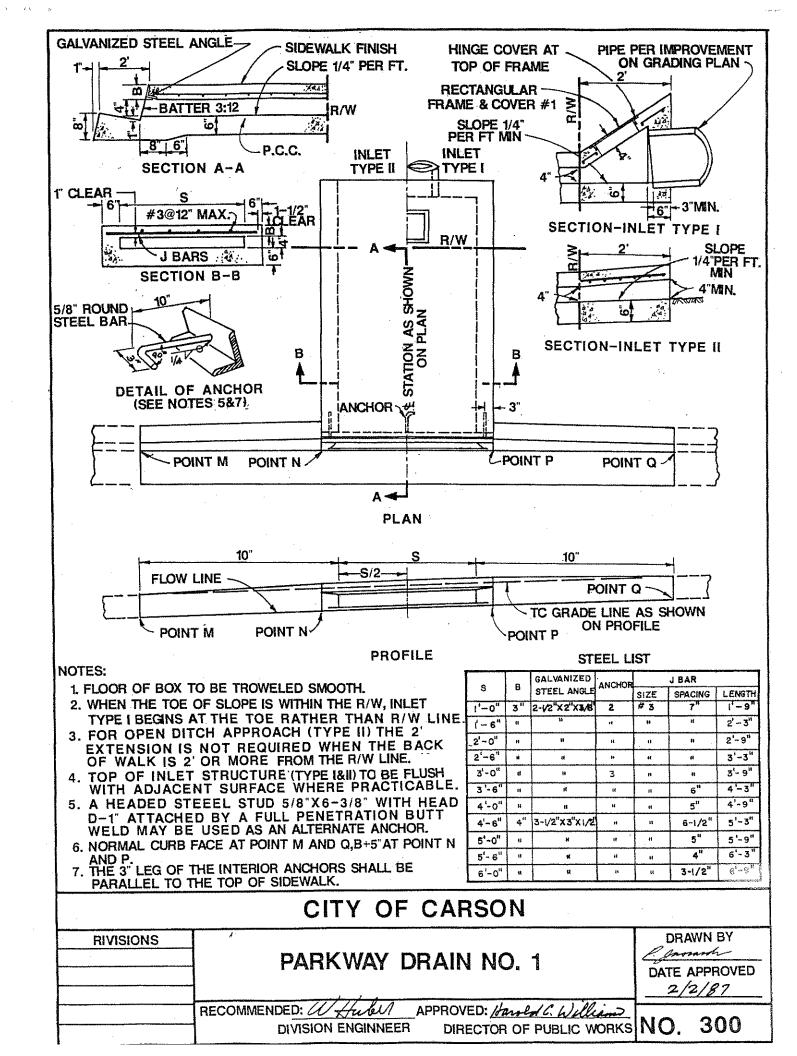
EXCLUSIVE FEATURE 4 FASTENERS IN BASE CAP PLUS LONGER BASE CAP FOR PERFECT ALIGNMENT

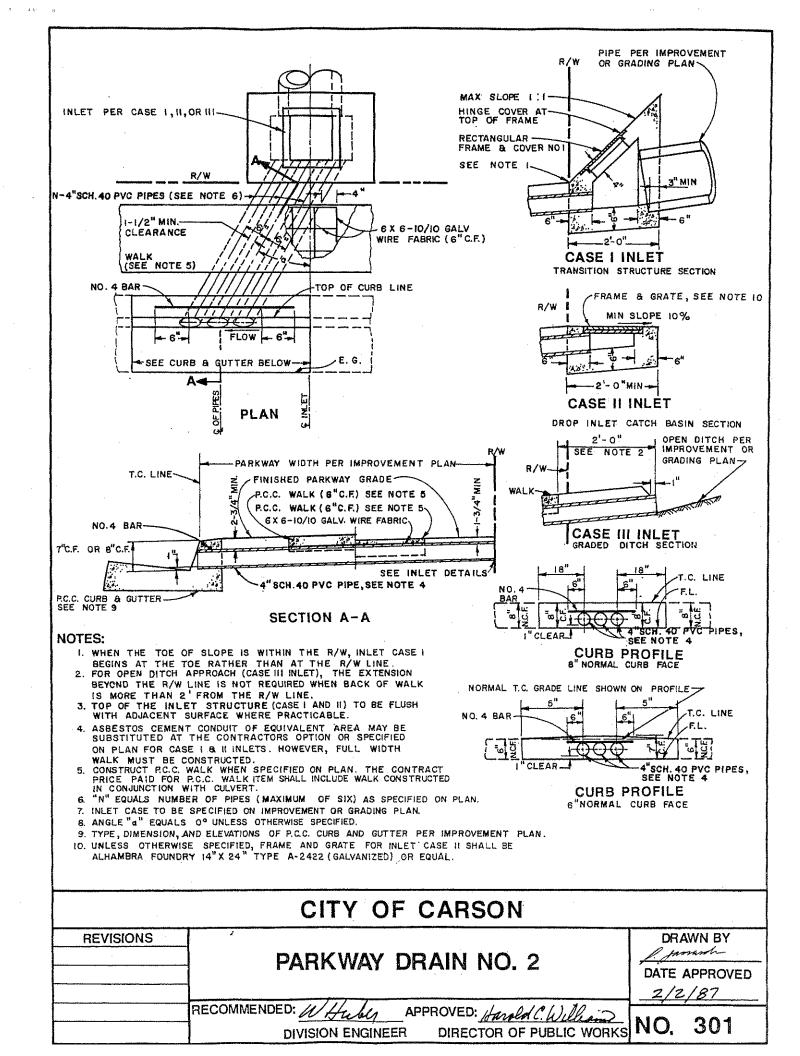
SHALL BE DIE CAST OF NO. 380 ALLOY WITH TENSILE STRENGTH OF 49,000 PSI WITH EXCELLENT RESISTANCE TO CORROSION. THE BRACKETS SHALL BE SMOOTHLY FINISHED FREE OF HOLES, PITS OR FLAWS. ALL BRACKETS SHALL HAVE 2 ANGLED GUSSETS, OR RIBS ON EACH SIDE FOR EXTRA STRENGTH. ALL SETS OF BRACKETS SHALL BE TAPPED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

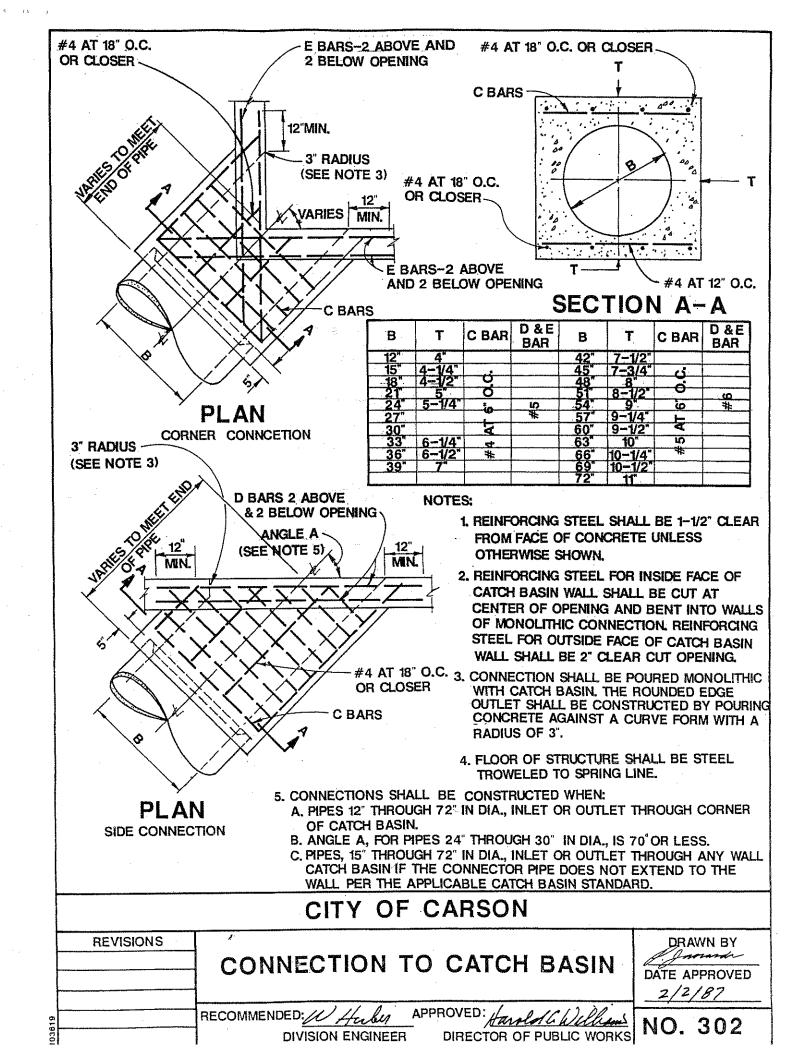
FOR SQUARE POLE

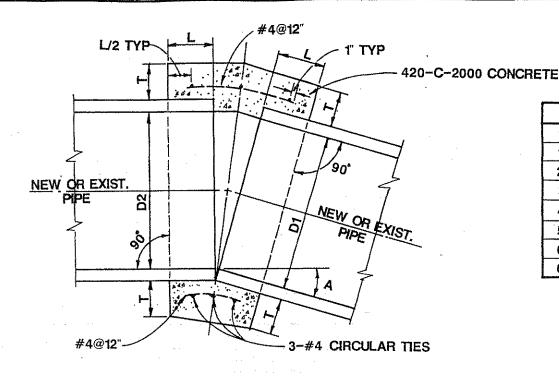
CITY OF CARSON STREET NAME SIGN MOUNTING DRAWN BY: REVISIONS **BRACKET (FLAT OR EXTRUDED)** GILBERT M. MARQUEZ, P.E. APPROVED: RECOMMENDED! SHEET 2 OF 2 DIRECTOR OF PUBLIC WORKS

CIVIL ENGINEERING MANACER





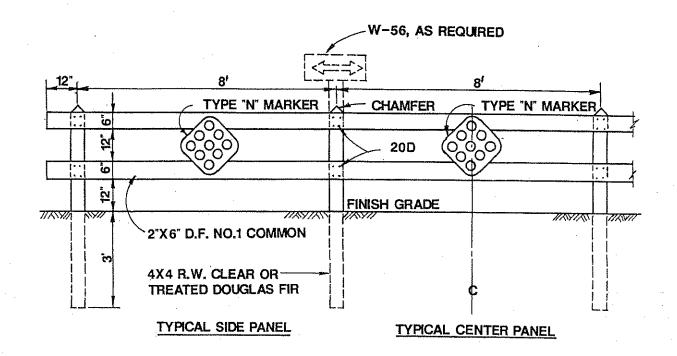




D	L	T
12"	1.0'	4'
18"	1.0'	5"
24"	10	6"
36"	1.5'	8"
48"	1.5'	10"
57"	1.5'	10"
60"	1.75	11"
66"	1.75	11"

- 1. A CONCRETE COLLAR IS REQUIRED WHERE THE CHANGE IN GRADE EXCEEDS 0.10 FT PER FOOT.
- 2. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR, L AND T SHALL BE THOSE OF THE LARGER PIPE. D=D, OR D2, WHICHEVER IS GREATER.
- 3. FOR PIPE LARGER THAN 66" A SPECIAL COLLAR DETAIL IS REQUIRED.
- 4. FOR PIPE SIZE NOT LISTED USE NEXT SIZE LARGER.
- 5. OMIT REINFORCING ON PIPES 24" AND LESS IN DIAMETER AND ON ALL PIPES WHERE ANGLE A IS LESS THAN 10.
- 6. WHERE REINFORCING IS REQUIRED THE DIAMETER OF THE CIRCULAR TIES SHALL BE D+(2 X WALL THICKNESS)+8".
- 7. WHEN D IS EQUAL TO OR LESS THAN D, , JOIN INVERTS AND WHEN D IS GREATER THAN D, JOIN SOFFITS.
- 8. PIPE MAY BE CORRUGATED METAL PIPE, CONCRETE PIPE, OR REINFORCED CONCRETE PIPE, OR ASBESTOS CEMENT PIPE.
- 9. NOT TO BE USED FOR A SIZE CHANGE ON THE MAINLINE.

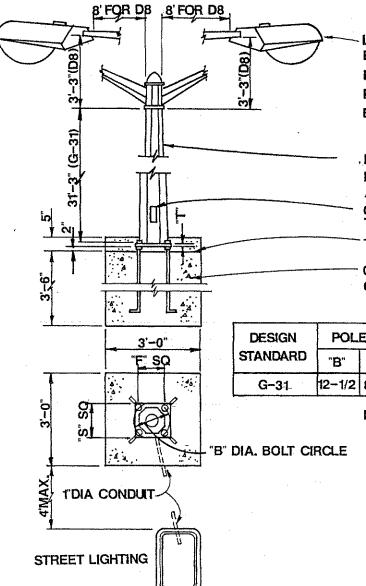
		CITY OF CARSON	
	REVISIONS	CONCRETE COLLARS	DRAWN BY DATE APPROVED 2/2/87
03619		RECOMMENDED: // Huby APPROVED: /arold (: William) DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS	NO. 303



ROADWAY WIDTH	NO. OF PANELS	TOTAL LENGTH
10'	1	10'
18'-20'	2	18'
32'	3	26'
36'-40'	4	34'
64'	7	. 58'
72'	8	66'

- 1. ASSEMBLY IS TO BE PAINTED WITH TWO COATS OF WHITE EXTERIOR PRIME PAINT.
- 2. TYPE "N" REFLECTOR SIGN TO BE BOLTED TO CENTER OF BARRICADE.
- 3. BOLTS, NUTS AND NAILS SHALL BE GALVANIZED STEEL.

	CITY OF CARSON					
REVISIONS	BARRICADE	DRAWN BY DATE APPROVED 2/2/87				
	RECOMMENDED: WHile APPROVED: Hand C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS					



LUMINAIRE AS MANUFACTURED BY GENERAL ELECTRIC CO. OR APPROVED EQUAL WITH RECEPTACLE FOR EXTERNAL MOUNTED PHOTOELECTRIC CELL * LUMINAIRE SHALL BE EQUAL TO GE#C724N806 W/#C402G600 PHOTOELECTRIC CELL & 250W HPS LAMP.

PACIFIC UNION METAL CO. "MARBELLITE" LIGHT STANDARD "G-31" SERIES OR APPROVED EQUAL

OPENING TO BE LOCATED AWAY FROM TRAFFIC FLOW

1/4" LAYER OF SAND TO BREAK BOND

CLASS 564-C-300LBS PORTLAND CEMENT CONCRETE

DESIGN	POL	E BASE	PLAT	E (IN)	ANCHOR ROD SIZE
STANDARD	"B"	Ą	"S"	"T"	. "D"
G-31	12-1/2	8-7/8	13-1/2	1	1"X36"X4"

NO. 5 PULL BOX SHALL BE FURNISHED WITH:

- 1. 5/8"DIA. COPPER GROUND ROD, 8" LONG IN PULL BOX ADJACENT TO EDISON CO. SERVICE ONLY AND SHALL BE CONNECTED TO CIRCUIT BY A SEPARATE GREEN CODE NO. 8 WIRE AT THE SERVICE CAN.
- 2. TRON WATER-PROOF FUSE (8 AMP) HOLDER HEB-AA MCGRAW -EDISON CO. OR APPROVED EQUAL FOR 120 VOLT CIRCUITS .
- 3. A COVER INDICATING "STREETLIGHT."
- 4. ALL STREETLIGHT CONDUIT SHALL BE 1" DIA. GALVANIZED STEEL*

CITY OF CARSON

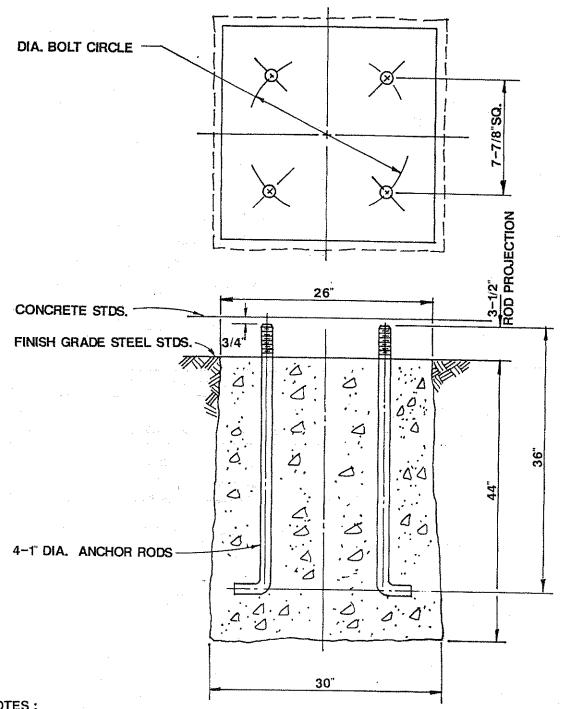
REVISIONS STREETLIGHT STANDARD AND INSTALLATION DETAIL RECOMMENDED: 11/4/2

DIVISION ENGINEER

DRAWN BY Dearund DATE APPROVED 2/2/87

DIRECTOR OF PUBLIC WORKS

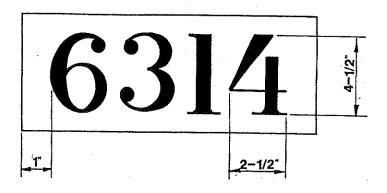
500



- 1. TOP OF FOUNDATION MUST BE LEVEL.
- 2. CONCRETE TO BE CLASS L.A. C-1-A 5SACK 3/4" ROCK.
- 3. ACTUAL DEPTH OF CONCRETE FOUNDATION VARIES WITH SOIL CONDITIONS AND POSSIBLE UNDERGROUND OBSTRUCTIONS.

CI	T	()F	C	A	R	S	\mathbf{C}	N
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103619	REVISIONS	PARKWAY STREETLIGHT FOUNDATION DETAILS	DRAWN BY frame DATE APPROVED 2/2/81	
		RECOMMENDED: White APPROVED: Harold C. William DIVISION ENGINEER DIRECTOR OF PUBLIC WORKS		



PAINT REQUIREMENT:

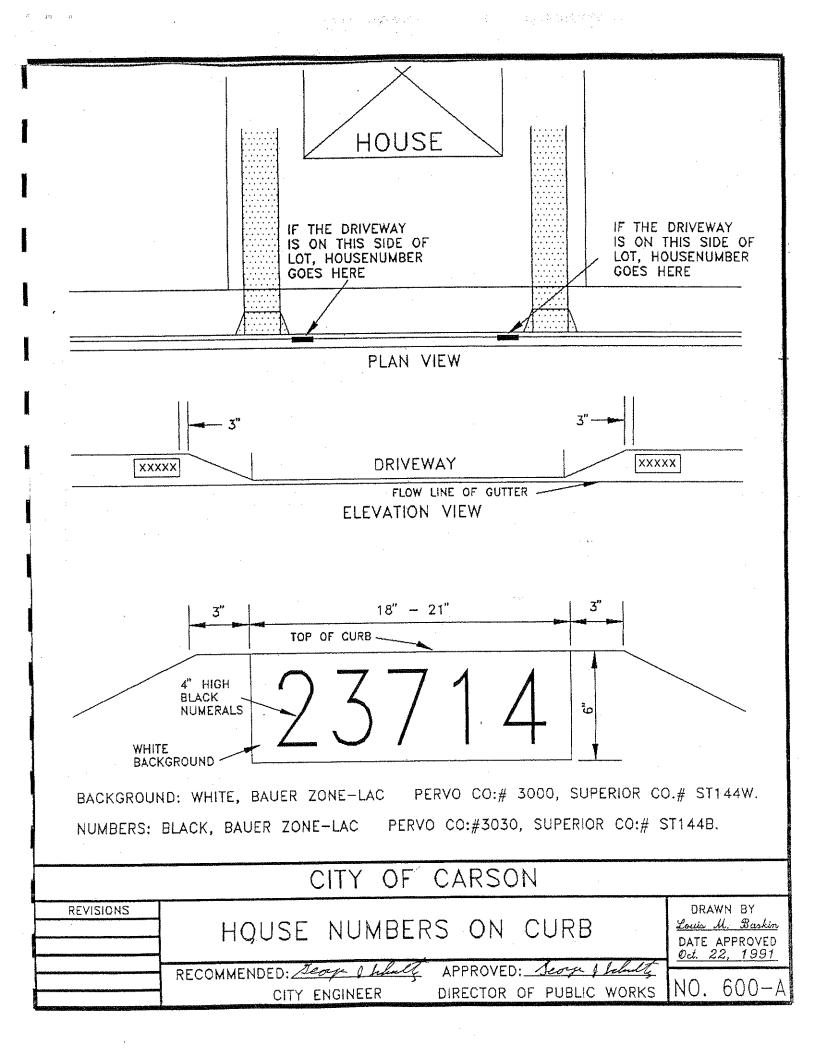
BACKGROUND: WHITE, CENTERLINE PRODUCT:# 510 A14, PERVO CO:# 3000, SUPERIOR CO:# ST144W. NUMBERS: BLACK, CENTERLINE PRODUCT:#11G, PERVO CO:#3030, SUPERIOR CO:#ST144B.

CITY	OF	CA	R	SO	1	V
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HOUSE NUMBERS ON CURB

DRAWN BY
DATE APPROVED
2/2/87

COMMENDED: Whater APPROVED: Jarold C. William N



CONVENTIONAL SYMBOLS FOR TOPOGRAPHY **EXISTING** PROPOSED SPRINKLER HEAD Δ Δ CURB CURB & GUTTER **CONCRETE IMPROVEMENTS** 2.00 to 30 to 30 to 30 Make Mark and the Mill state. CONSTRUCT A.C. PAVEMENT CONSTRUCT A.C. OVER C.A.B. REMOVALS *177777777* **COLD PLANE A.C. PAVEMENT EDGE OF PAVEMENT** R/W BARRICADE X===X====X BUILDING Θ Θ **DEAD MAN** X----X FENCE FIRE HYDRANT 3 0 MANHOLE PIPE \leftarrow TELEPHONE POLE 5 **POWER POLE** R.R. XING POST SIGN SIGNAL CONTROL BOX SIGNAL-FLASHING SIGNAL-TRAFFIC **STANDPIPE** STREETLIGHT TREES-PALM TREES-OTHER VALVE WALL-BLOCK GERMANIE -WALL-STONE *אַרעינועינוערווערווערווערווע*ען **WELL OR VAULT** \rightarrow C = IWATER METER **GAS METER** CITY OF CARSON **REVISIONS DRAWN BY** DRAFTING STANDARD SYMBOLS garant DATE APPROVED 2/2/87

NO. 601

DIRECTOR OF PUBLIC WORKS

RECOMMENDED:

DIVISION ENGINEER

103619

