

SAN DIEGO COUNTY DEPARTMENT OF PUBLIC WORKS

DESIGN STANDARDS

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CIP Project Development Section

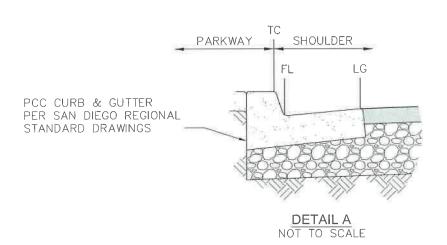
October 2012

SAN DIEGO COUNTY DEPARTMENT OF PUBLIC WORKS

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ROADWAY SECTION SYMMETRICAL ABOUT CENTERLINE R/W R/W RIGHT OF WAY (R/W) ROADBED PARKWAY PARKWAY 5'-6" 5'-6" TRAVELED WAY SHOULDER SHOULDER TRAVELED WAY MEDIAN 2% 2% SEE DETAIL A

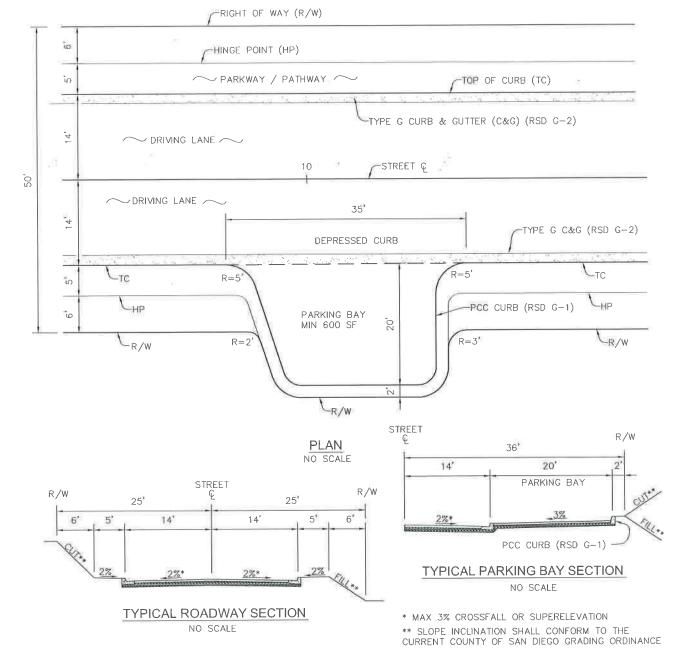


TC — TOP OF CURB LINE FL — GUTTER FLOW LINE LG — LIP OF GUTTER LINE

NOTE: AGGREGATE BASE TO EXTEND TO THE OUTSIDE EDGE UNDER PCC CURB & GUTTER

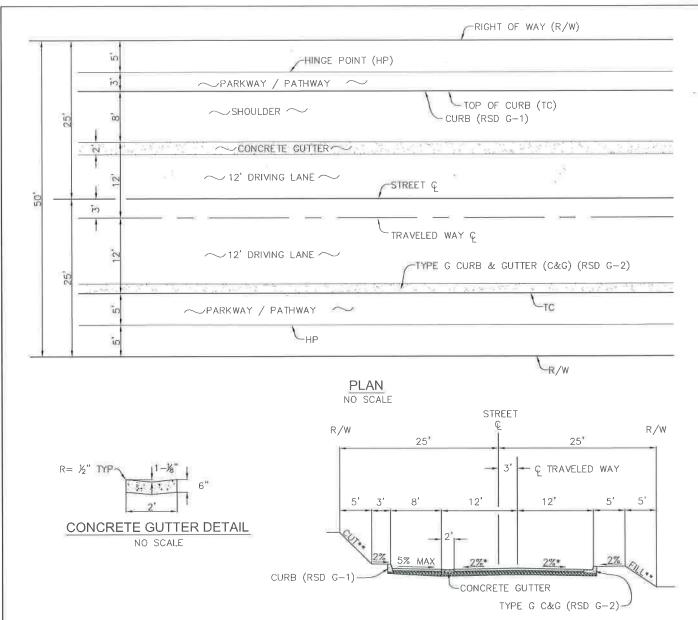
- 1. REFER TO SAN DIEGO COUNTY PUBLIC ROAD STANDARDS (PRS) FOR ADDITIONAL ROADWAY REQUIREMENTS.
- 2. ADDITIONAL ROAD SURFACING AND R/W MAY BE REQUIRED FOR MOBILITY ELEMENT ROADS IN INDUSTRIAL/COMMERCIAL ZONES (4 FEET AND 12 FEET RESPECTIVELY).
- 3. ADDITIONAL 12 TO 14 FEET OF ROAD SURFACING AND R/W IS REQUIRED FOR EACH ADDITIONAL TURN LANE.
- 4. MOBILITY ELEMENT ROADS DESIGNATED WITH BIKE LANES WILL REQUIRE AN ADDITIONAL 10-12 FEET OF ROAD SURFACING AND R/W. THROUGH TRAFFIC LANES ADJACENT TO BIKE LANES REQUIRE 13 FEET WIDE LANES. REFER TO COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS, SECTION 7, "BIKEWAYS".
- 5. INTERIM ROADS SHALL HAVE A MINIMUM WIDTH OF 28 FEET OF A.C. ROAD SURFACING WITHIN 40 FEET OF GRADED ROAD BED. WIDTHS WILL BE LARGER IF TRAFFIC VOLUMES REQUIRE MORE TRAVEL LANES.
- 6, EARTHWORK AND ALL CUT AND FILL SLOPE INCLINATIONS SHALL CONFORM TO THE COUNTY GRADING ORDINANCE.

| DRAWN BY: PBM CHECKED BY: JSM. | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | JAN DIEGO COUNTI DESIGN STANDAND | - REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | | | | |
| DATE: 10/15/12 MOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | TYPICAL ROADWAY SECTIONS | DRAW NUMB | | DS-01 |



- THIS STANDARD IS APPLICABLE ONLY TO CATEGORY 2 HILLSIDE RESIDENTIAL STREETS AS DEFINED IN THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS.
- USE OF HILLSIDE RESIDENTIAL STREET STANDARDS ARE APPLICABLE ONLY TO NON-MOBILITY ELEMENT STREETS CLASSIFIED AS RESIDENTIAL, RESIDENTIAL CUL-DE-SAC, OR RESIDENTIAL LOOP STREETS, AND ARE NOT APPLICABLE TO STREETS IN AREAS ZONED FOR COMMERCIAL, INDUSTRIAL OR MULTIPLE RESIDENTIAL USE.
- 3. CURB AND GUTTER (C&G) SHALL CONFORM TO SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (RSD), COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS, AND THESE DESIGN STANDARDS.
- 4. ONE 600 SQUARE FEET PERPENDICULAR PARKING BAY REQUIRED PER LOT. THE COUNTY ENGINEER MAY ALSO ESTABLISH ALTERNATE STANDARD TYPICAL SECTIONS WHICH WILL PROVIDE A MINIMUM OF TWO PARKING STALLS PER LOT.
- 5. EARTHWORK AND CUT AND FILL SLOPES SHALL CONFORM TO REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTY DESIGN STANDARD | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | HILLSIDE RESIDENTIAL STREET | | | |
| DATE: 10/5/10 MOHAMAD FAKHIRIDDINE, P.E. R.C.E. NO. 44520. EXP 3/31/2014 | ALTERNATIVE NO. 1 | DRAW NUMB | ING E | DS-02 |

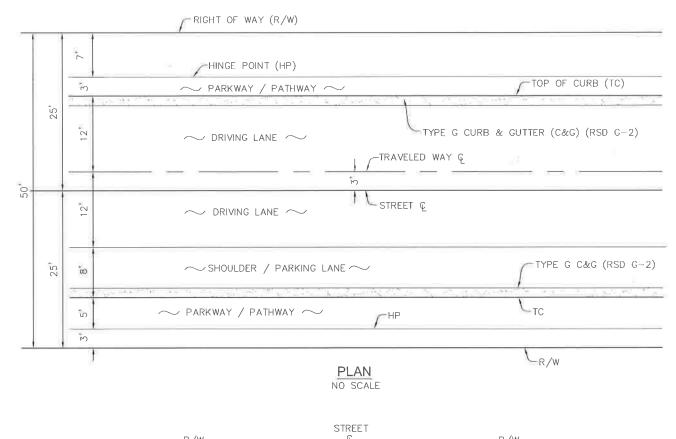


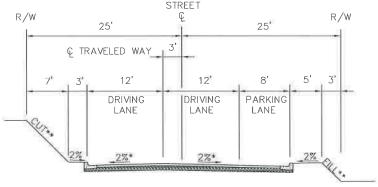
- * MAX 3% CROSSFALL OR SUPERELEVATION
- ** SLOPE INCLINATION SHALL CONFORM TO THE COUNTY OF SAN DIEGO GRADING ORDINANCE

TYPICAL ROADWAY SECTION NO SCALE

- 1, THIS STANDARD IS APPLICABLE ONLY TO CATEGORY 2 HILLSIDE RESIDENTIAL STREETS AS DEFINED IN THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS.
- 2. USE OF HILLSIDE RESIDENTIAL STREET STANDARDS ARE APPLICABLE ONLY TO NON-MOBILITY ELEMENT STREETS CLASSIFIED AS RESIDENTIAL, RESIDENTIAL CUL-DE-SAC, OR RESIDENTIAL LOOP STREETS, AND ARE NOT APPLICABLE TO STREETS IN AREAS ZONED FOR COMMERCIAL, INDUSTRIAL OR MULTIPLE RESIDENTIAL USE.
- CURB AND GUTTER (C&G) SHALL CONFORM TO THE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (RSD), COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS, AND THESE DESIGN STANDARDS.
- 4. EARTHWORK AND ALL CUT AND FILL SLOPES SHALL CONFORM TO REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

| DRAWN BY:_PBM_ CHECKED BY: JSM_ | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--|--|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER DATE: 10/15/12 MEHAMAD FAKHRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | HILLSIDE RESIDENTIAL STREET ALTERNATIVE NO. 2 | DRAW NUMB | | OS-03 |



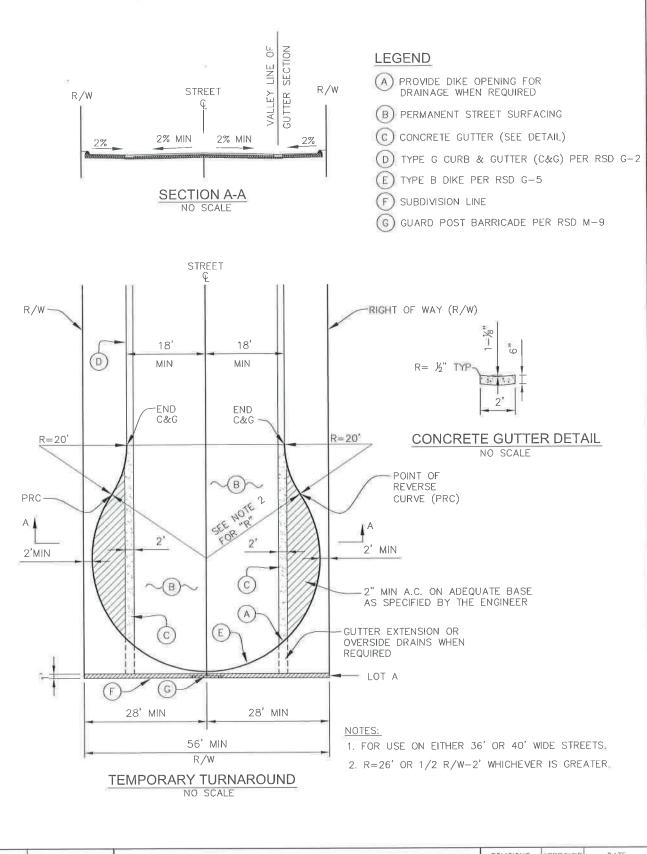


- * MAX 3% CROSSFALL OR SUPERELEVATION
- ** SLOPE INCLINATION SHALL CONFORM TO THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

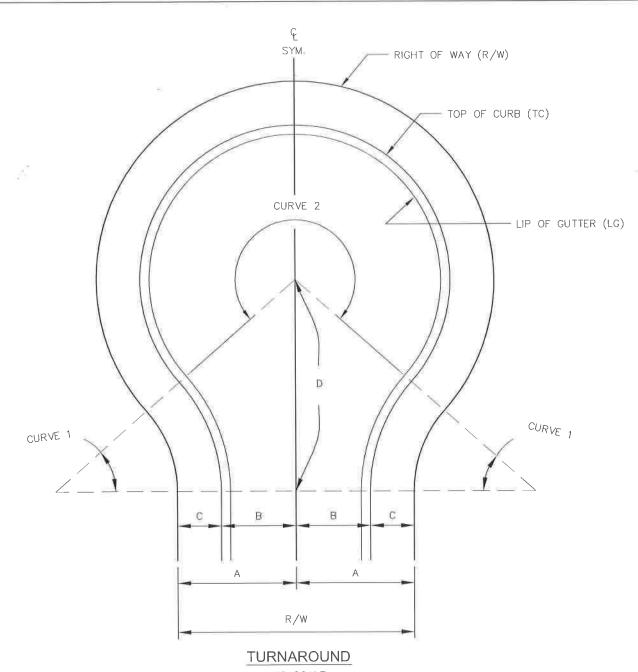
TYPICAL ROADWAY SECTION NO SCALE

- THIS STANDARD IS APPLICABLE ONLY TO CATEGORY 2 HILLSIDE RESIDENTIAL STREETS AS DEFINED IN THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS (PRS).
- 2. USE OF HILLSIDE RESIDENTIAL STREET STANDARDS ARE APPLICABLE ONLY TO NON-MOBILITY ELEMENT STREETS CLASSIFIED AS RESIDENTIAL, RESIDENTIAL CUL-DE-SAC, OR RESIDENTIAL LOOP STREETS, AND ARE NOT APPLICABLE TO STREETS IN AREAS ZONED FOR COMMERCIAL, INDUSTRIAL OR MULTIPLE RESIDENTIAL USE.
- 3. CURB AND GUTTER (C&G) SHALL CONFORM TO THE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (RSD), THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS, AND THESE DESIGN STANDARDS.
- 4. EARTHWORK AND ALL CUT AND FILL SLOPES SHALL CONFORM TO REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

| DRAWN BY:_PBM_ CHECKED BY:_JSM_ | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|----------------------------------|---------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COONTT DESIGN STANDAND | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | HILLSIDE RESIDENTIAL STREET | | | |
| MOHAMAD FAKHIRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | ALTERNATIVE NO. 3 | DRAWING DS-04 | | |



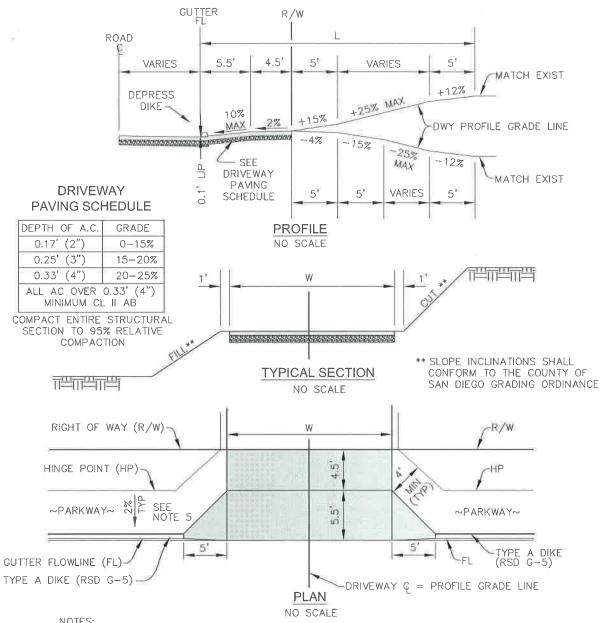
| DRAWN BY: PBM CHECKED BY: JSM | SAN DIFGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDAND | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | TEMPORARY TURNAROUND | | | |
| DATE: 0/15/12 NOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP. 3/31/2014 | AT DEAD END STREET | DRAW NUMB | ING C | OS-05 |



NO SCALE

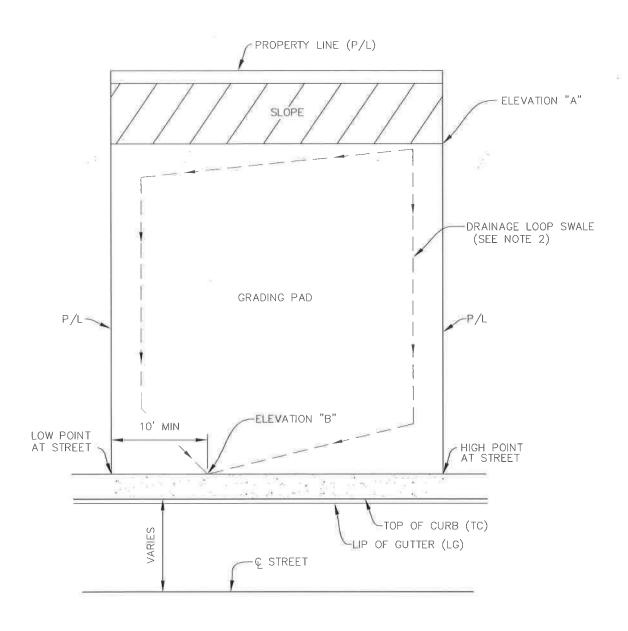
| | DIMIC | ENS | ION | S | CURVE 1 | | | | CURVE 2 | | | | | | | |
|-----|-------|-----|-----|--------|------------|--------------|-------|----------|---------|--------|-------|-------------------------|-----|---------|-----|---------|
| R, | | | | | \wedge | A CURB PROP. | | \wedge | | CURB | | PROP. | | | | |
| ₹ W | А | В | C | D | | R | L | Т | R | L | Т | \triangle | R | L | R | L |
| 52' | 26' | 16" | 10' | 50.95' | 46° 42'30" | 32' | 26.09 | 13.82 | 22' | 17.93 | 9.50' | 273 [°] 25'00" | 38' | 181.34' | 48' | 229.06 |
| 56' | 28' | 18' | 10' | 50.99' | 42° 50'00" | 37" | 27.66 | 14.52 | 27' | 20.18' | 10.59 | 265°40'00" | 38' | 176.20' | 48' | 222.56' |
| 60' | 30' | 20' | 10' | 68.15 | 29° 35'31" | 100' | 51.65 | 26.41' | 90' | 46.48' | 23.77 | 239°11′02″ | 38' | 158.63 | 48' | 200.38' |
| 72' | 36' | 26' | 10' | 81.39 | 32° 51′36" | 100' | 57.35 | 29.49 | 90' | 51.62 | 26.54 | 245°43'12" | 50' | 214.43' | 60' | 257.32' |

| DRAWN BY: PBM CHECKED BY: JSM | CAN DIFOO COUNTY DECICAL CTANDADD | REVISIONS | APPROVED | DATE |
|--|-----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTY DESIGN STANDARD | REV | ~JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | TURNAROUND | | | |
| DATE: 0/15/12 MOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | DETAIL AND CALCULATIONS | DRAW NUMB | ING E | DS-06 |



- 1. DRIVEWAY PROFILE, WIDTH (W) AND LENGTH (L) SHALL BE SHOWN ON PLANS.
- 2. DRIVEWAYS WITH GRADES GREATER THAN 15% SHALL BE SURFACED WITH ASPHALT CONCRETE (AC) OR PORTLAND CEMENT CONCRETE (PCC).
- 3. MAXIMUM GRADE BREAK 14% (5' MINIMUM VERTICAL CURVE PREFERRED).
- 4. SEE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS G-15 & G-16 FOR DRIVEWAY LOCATION & WIDTH REQUIREMENTS AND G-14 SERIES FOR PCC DRIVEWAYS.
- 5. WHEN ROADWAY GRADE EXCEEDS 5% THE DOWNSLOPE PARKWAY SHALL BE SURFACED WITH 0.17' (2") THICK A.C. BETWEEN THE A.C. DIKE AND HINGE POINT FOR A DISTANCE OF 15 LF FROM THE EDGE OF DRIVEWAY. THE A.C. SURFACING SHALL MATCH THE PARKWAY GRADE.
- 6. ALL DRIVEWAYS SHALL SATISFY COUNTY SIGHT DISTANCE REQUIREMENTS.

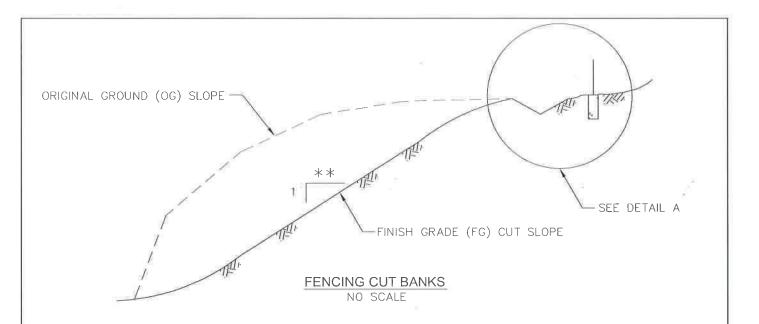
| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDAND | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER DATE:/0/15/2 MGHAMAD FAKHRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | ASPHALT CONCRETE DRIVEWAY | DRAW NUMB | ING E |)S-07 |

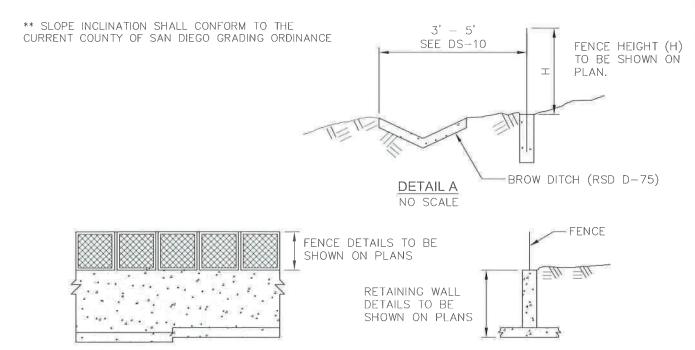


TYPICAL FINISHED GRADING NO SCALE

- 1. ELEVATION "A" IS LOCATED AT THE MOST REMOTE CORNER OF THE LOT FROM THE DRAIN POINT "ELEVATION B". ELEVATION "A" SHALL EQUAL ELEVATION "B" PLUS 1% TIMES ONE—HALF THE PERIMETER OF THE LOT.
- 2. DRAINAGE LOOP SWALE SHALL HAVE 1% MINIMUM GRADIENT TOWARDS STREET OR OTHER DISCHARGE POINT.
- 3. ALL SLOPE SURFACES SHALL BE PROTECTED BY APPROVED EROSION CONTROL MATERIAL.

| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDAND | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER DATE: /0/15//2 MOHAMAD FAXHERIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | LOT GRADING | DRAW NUMB | |)S-08 |



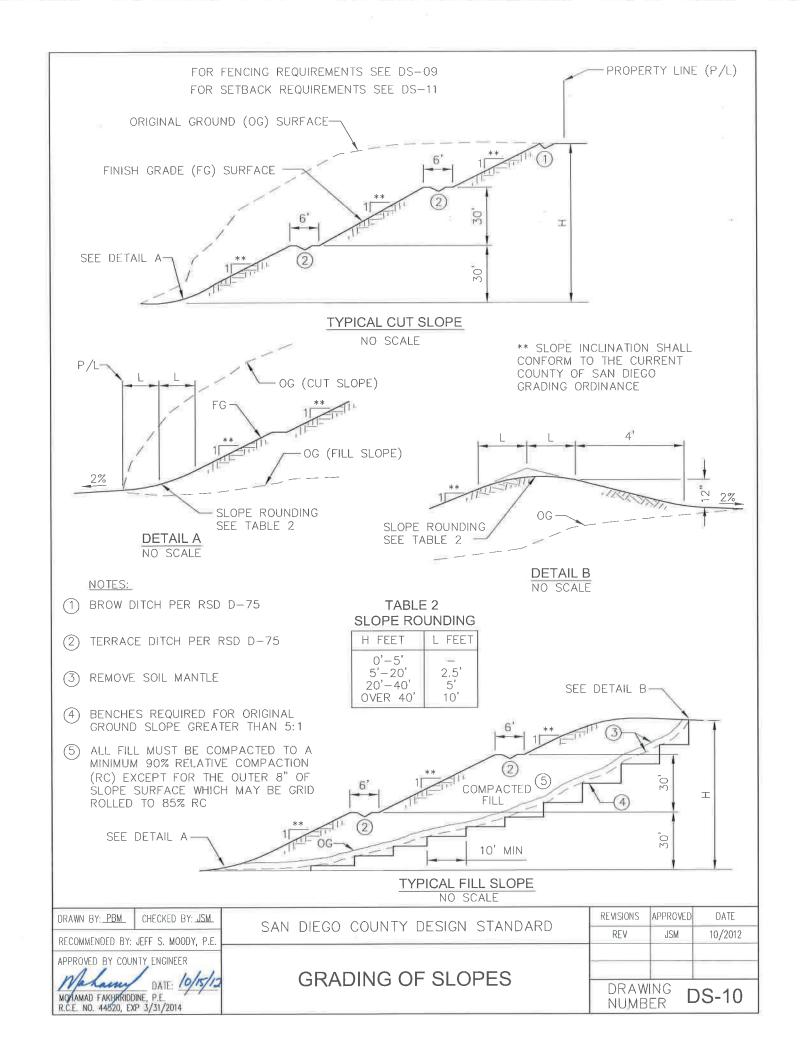


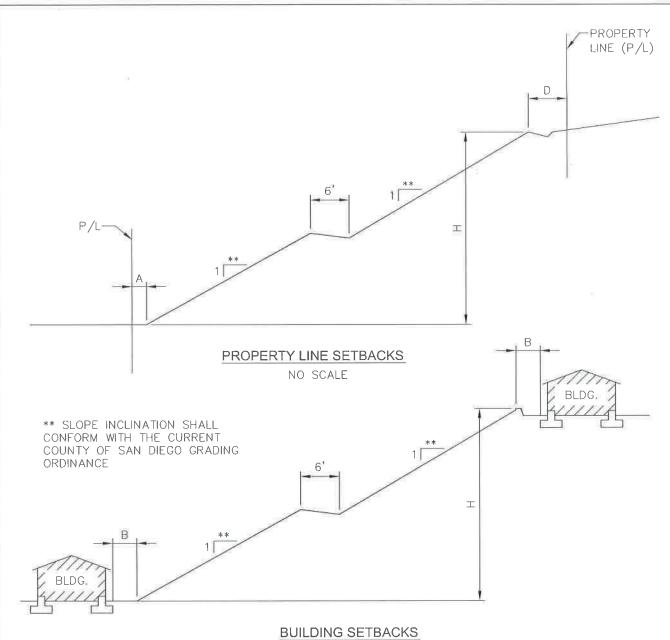
FOR WALL HEIGHTS GREATER THAN 4 FT.

NO SCALE

- 1. CHAIN LINK FENCE OR ALTERNATE FENCE ACCEPTABLE TO THE COUNTY ENGINEER SHALL BE INSTALLED ALONG THE TOP OF SLOPES EXCEEDING 15 FEET VERTICAL HEIGHT AND 3:1 (HORIZONTAL: VERTICAL) SLOPE AND ALONG THE TOP OF ALL WALLS EXCEEDING 4 FEET VERTICAL HEIGHT.
- 2. RETAINING WALLS AND FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SAN DIEGO COUNTY APPROVED PLANS.

| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDAND | REV | MZL | 10/2012 |
| APPROVED BY COUNTY ENGINEER DATE: 10/15/12 MOHAMAD FAKFIRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | FENCING CUT BANKS AND WALLS | DRAW NUMB | ING E | DS-09 |





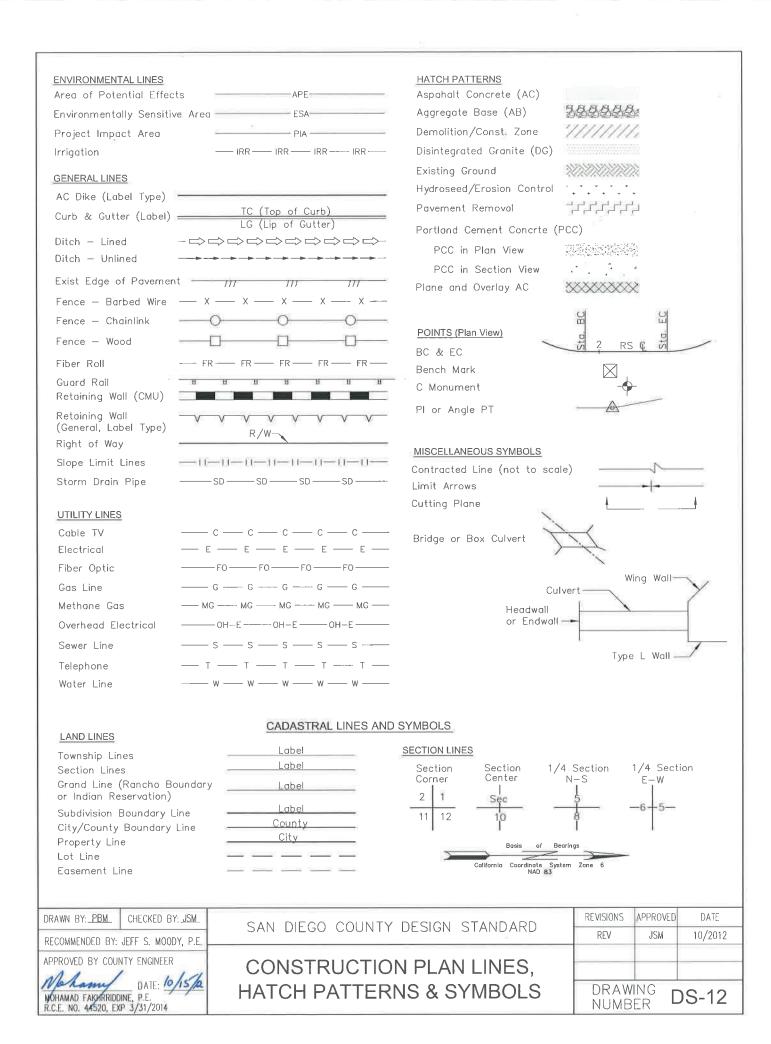
NO SCALE

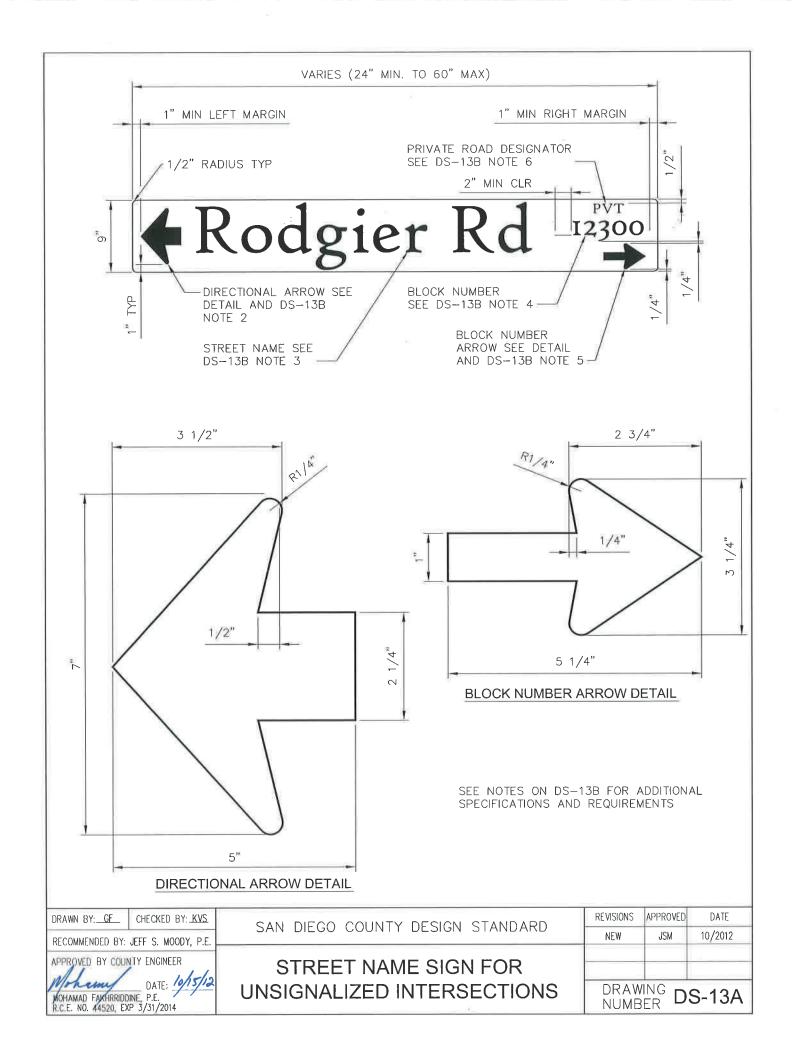
| REQUIRED SETBACKS | | | | | | | | |
|-------------------|-------|----|----|--|--|--|--|--|
| H FEET | А | В | D | | | | | |
| 0-15 | 1'-6" | 5' | 3" | | | | | |
| 15-30 | 3' | 5 | 5" | | | | | |
| OVER 30 | 5' | 5' | 5" | | | | | |

A = DISTANCE FROM TOE OF SLOPE TO PROPERTY LINE.

B = DISTANCE FROM EDGE OF FOUNDATION TO TOE OR TOP OF SLOPE.
D = DISTANCE FROM TOP OF SLOPE TO PROPERTY LINE.
H = TOTAL SLOPE HEIGHT MEASURED VERTICALLY.

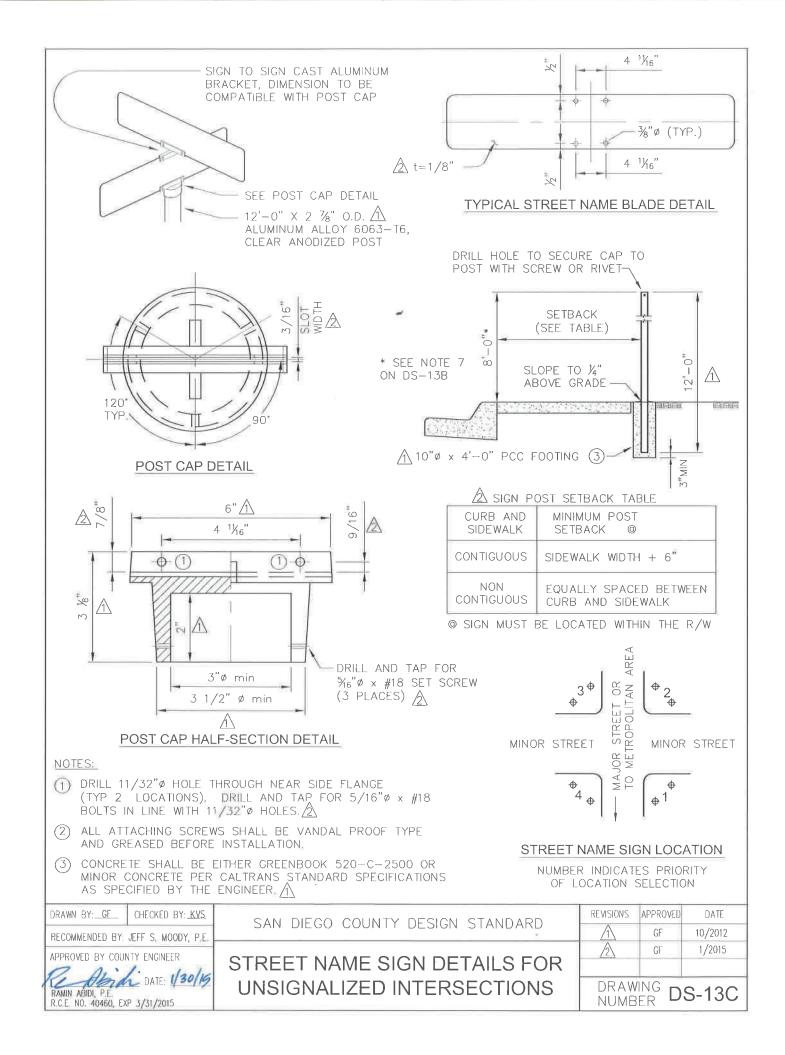
| DRAWN BY: PBM CHECKED BY: JSM. | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E | SAN DIEGO COUNTY DESIGN STANDARD | | M2L | 10/2012 |
| APPROVED BY COUNTY ENGINEER DATE: 10/15/1. MOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | REQUIRED SETBACKS | DRAW NUMB | | DS-11 |

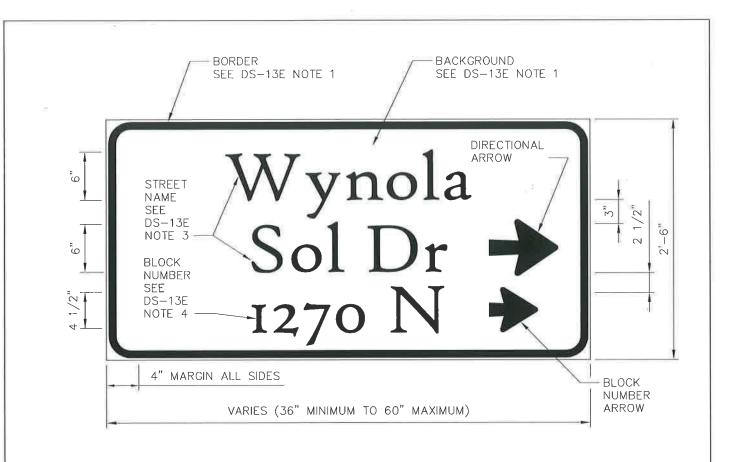


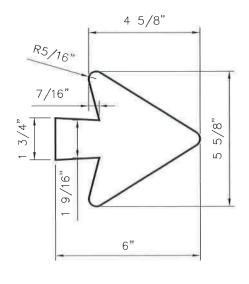


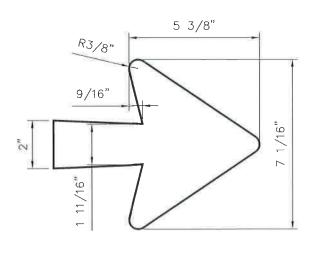
- THE BLADES OF STREET NAME SIGNS AT UNSIGNALIZED INTERSECTIONS SHALL BE DOUBLE FACED WITH A GREEN BACKGROUND AND WHITE LEGEND. THE STREET NAME SIGN BLADE BLANK SHALL BE 0.125" THICK ALUMINUM ALLOY 6063—T6, 6061—T6, 5052—H38, OR APPROVED EQUAL. UNLESS OTHERWISE SPECIFIED, THE SMALLEST POSSIBLE BLANK WHICH MEETS THESE SPECIFICATIONS AND MAINTAINS AESTHETICS SHALL BE USED FOR EACH STREET NAME SIGN BLADE. BOTH FACES OF THE BLANK SHALL BE COMPLETELY COVERED WITH EITHER WHITE ASTM D4956 TYPE IX SIGN SHEETING (3M DIAMOND GRADE VIP WHITE 3990 OR APPROVED EQUAL) OR PROPOSED TYPE XI SIGN SHEETING (3M DIAMOND GRADE DG3 WHITE 4090 OR APPROVED EQUAL). THEN, 3M ELECTRONIC CUTTABLE TRANSPARENT FILM GREEN 1177 (OR APPROVED EQUAL) WITH THE DESIGNATED STREET NAME SIGN INFORMATION CUT OUT SHALL BE APPLIED TO BOTH SIGN FACES OF THE BLADE. THE YELLOW PRIVATE ROAD DESIGNATOR SHALL BE APPLIED PER NOTE 6. LASTLY, BOTH SIDES OF THE BLADE IS COVERED WITH PREMIUM CLEAR PROTECTIVE OVERLAY FILM (3M 1160 OR EQUIVALENT). ALL SIGN SHEETING AND FILMS USED ON EACH STREET NAME SIGN BLADE SHALL BE COMPATIBLE TO ENSURE MATERIAL WARRANTIES ARE EFFECTIVE.
- THE DIRECTIONAL ARROW SHALL BE USED AT INTERSECTIONS THAT HAVE STREET NAME CHANGES. THE DIRECTIONAL ARROW INDICATES WHICH LEG OF THE INTERSECTION HAS THE RESPECTIVE STREET NAME. THE DIRECTIONAL ARROW IS DISPLAYED IN WHITE ON THE BLADE. THE COMPASS DIRECTION OF THE DIRECTIONAL ARROW FOR EACH STREET NAME SIGN BLADE SHALL BE SPECIFIED WHEN ORDERED.
- THE STREET NAME IS DISPLAYED IN WHITE ON THE STREET NAME SIGN BLADE. ONLY THE OFFICIAL COUNTY RECORDED NAME AND SPELLING SHALL BE USED ON THE STREET NAME SIGN. ONLY COUNTY APPROVED ABBREVIATIONS PER DS-13G SHALL BE USED ON THE STREET NAME SIGN BLADES. THE STREET NAME SHALL BE CENTERED VERTICALLY ON EACH STREET NAME SIGN BLADE. THE STREET NAME LETTERING SHALL BE 6" UPPERCASE AND 4.5" LOWERCASE HIGHWAY GOTHIC FONT, WITH STYLE AND SPACING AS ESTABLISHED IN THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD), CURRENT EDITION. STROKE WIDTH AND LETTER WIDTH USED FOR THE WHOLE STREET NAME MAY VARY FROM SERIES B TO SERIES E (REFER TO FHWA STANDARD SIGNS AND MARKINGS SIGN FONTS AT HTTP://MUTCD.FHWA.DOT.GOV/SHSE/ALPHABETS.PDF). THE MINIMUM GAP DISTANCE BETWEEN THE DIRECTIONAL ARROW AND THE STREET NAME SHALL EQUAL THE SPACING USED FOR THE BLANK SPACES IN THE STREET NAME.
- 4. THE BLOCK NUMBER IS DISPLAYED IN WHITE ON THE STREET NAME SIGN BLADE. THE BLOCK NUMBER LETTERING SHALL BE 3" HIGH HIGHWAY GOTHIC FONT WITH STYLE AND SPACING AS ESTABLISHED BY THE CAMUTCD, CURRENT EDITION. THE SERIES USED FOR THE WHOLE BLOCK NUMBER SHALL BE OF THE SAME SERIES THAT IS USED FOR THE STREET NAME.
- 5. THE BLOCK NUMBER ARROW IS DISPLAYED IN WHITE ON THE STREET NAME SIGN BLADE. THE BLOCK NUMBER ARROW SHALL BE CENTERED BELOW THE BLOCK NUMBER. THE COMPASS DIRECTION OF THE BLOCK NUMBER ARROW FOR EACH STREET NAME SIGN BLADE SHALL BE SPECIFIED WHEN ORDERED.
- 6. THE PRIVATE ROAD DESIGNATOR (PVT) IS ONLY USED ON STREET NAME BLADES FOR ROADS THAT ARE NOT MAINTAINED BY THE COUNTY OF SAN DIEGO (PRIVATE ROADS). THE PVT IS DISPLAYED IN YELLOW ON THE STREET NAME BLADE. THE PVT SHALL BE CENTERED ABOVE THE BLOCK NUMBER. THE PVT LETTERING SHALL BE 1 1/4" UPPERCASE HIGHWAY GOTHIC FONT SERIES E WITH STYLE AND SPACING AS ESTABLISHED BY THE CAMUTCD, CURRENT EDITION. THE PVT SHALL BE MADE OF ASTM D4956 TYPE I SHEETING (3M PRISMATIC ENGINEER GRADE YELLOW 3431 OR APPROVED EQUAL) AND PLACED ON THE STREET NAME SIGN BLADE PRIOR TO THE CLEAR PROTECTIVE OVERLAY SHEETING.
- 7. STREET NAME SIGNS SHALL BE MOUNTED ON POLES PER DS—13C. NO OTHER SIGNS SHALL BE MOUNTED ON STREET NAME SIGN POLES UNLESS TALLER POLES ARE SPECIFIED TO MEET CAMUTCD REQUIRED GROUND CLEARANCES FOR SIGNS.

| 1 | | | | | | | |
|---|---------------------|----------------------------------|--------------|------------|---------|--|--|
| DRAWN BY: _GF_ | CHECKED BY: KVS. | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE | | |
| RECOMMENDED BY: | JEFF S. MOODY, P.E. | SAN DIEGO COUNTY DESIGN STANDARD | | JSM | 10/2012 | | |
| APPROVED BY COUNTY ENGINEER DATE: 10/15/12 MOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | | STREET NAME SIGN NOTES FOR | 1 | GF | 8/2014 | | |
| | | UNSIGNALIZED INTERSECTIONS | DRAW NUMB | RAWING DS- | | | |









BLOCK NUMBER ARROW DETAIL

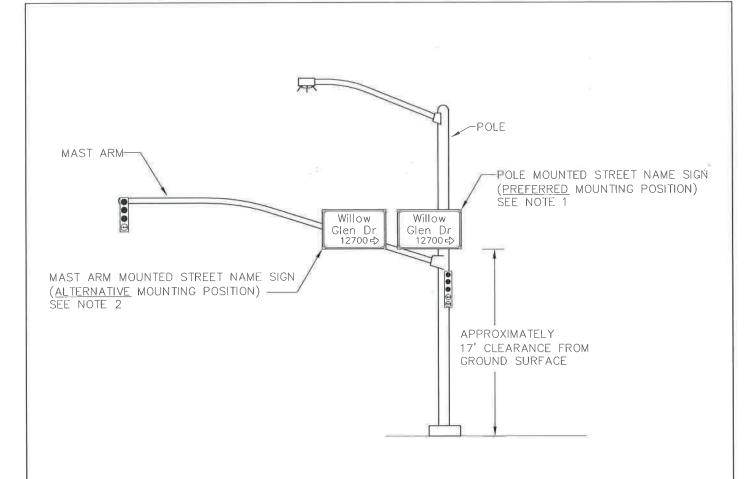
DIRECTIONAL ARROW DETAIL

SEE NOTES ON DS-13E FOR ADDITIONAL SPECIFICATIONS AND REQUIREMENTS

| DRAWN BY: _GE CHECKED BY: _KVS. | SAN DIFGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED) | DATE |
|---|---|--------------|-----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDARD | | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER DATE: lo/is/is MCHAMAD FAKHBRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | STREET NAME SIGN FOR SIGNALIZED INTERSECTIONS | DRAW NUMB | ING D | S-13D |

- 1. STREET NAME SIGNS AT SIGNALIZED INTERSECTIONS SHALL BE SINGLE FACED SIGNS WITH GREEN BACKGROUND, WHITE LEGEND, AND WHITE, 1" WIDE BORDER. THE STREET NAME SIGN BLANK SHALL BE 0.080" THICK ALUMINUM ALLOY 6063—T6, 6061—T6, 5052—H38, OR APPROVED EQUAL. UNLESS OTHERWISE SPECIFIED, THE SMALLEST POSSIBLE BLANK WHICH MEETS THESE SPECIFICATIONS AND MAINTAINS AESTHETICS SHALL BE USED FOR EACH STREET NAME SIGN. THE BLANK SHALL BE COMPLETELY COVERED WITH EITHER WHITE ASTM D4956 TYPE IX SIGN SHEETING (3M DIAMOND GRADE DG3 WHITE 3990 OR APPROVED EQUAL) OR TYPE XI SIGN SHEETING (3M DIAMOND GRADE DG3 WHITE 4090 OR APPROVED EQUAL). THEN, A SINGLE SHEET OF 3M ELECTRONIC CUTTABLE TRANSPARENT FILM GREEN 1177 (OR APPROVED EQUAL) WITH THE DESIGNATED STREET NAME SIGN INFORMATION CUT OUT SHALL BE APPLIED TO THE SIGN FACE. THE 1" WIDE BORDER SHALL HAVE ROUNDED CORNERS (3" OUTSIDE RADIUS TYPICAL). LASTLY, THE SIGN FACE SHALL BE COVERED WITH PREMIUM CLEAR PROTECTIVE OVERLAY FILM (3M 1160 OR EQUIVALENT). ALL SHEETING AND FILMS USED ON EACH STREET NAME SIGN SHALL BE COMPATIBLE TO ENSURE MATERIAL WARRANTIES ARE EFFECTIVE.
- 2. THE DIRECTIONAL ARROW SHALL BE USED AT INTERSECTIONS THAT HAVE STREET NAME CHANGES, AND SHALL INDICATE WHICH LEG OF THE INTERSECTION HAS THE RESPECTIVE STREET NAME. THE DIRECTIONAL ARROW IS DISPLAYED IN WHITE ON THE BLADE. THE DIRECTIONAL ARROW IS CENTERED VERTICALLY WITH RESPECT TO THE ASSOCIATED LINE OF TEXT. THE COMPASS DIRECTION OF THE DIRECTIONAL ARROW FOR EACH STREET NAME SIGN BLADE SHALL BE SPECIFIED WHEN ORDERED.
- 3. THE STREET NAME IS DISPLAYED IN WHITE ON THE STREET NAME SIGN. ONLY THE OFFICIAL COUNTY RECORDED NAME AND SPELLING SHALL BE USED ON THE STREET NAME SIGN. ONLY COUNTY APPROVED ABBREVIATIONS PER DS-13G SHALL BE USED ON THE STREET NAME SIGNS. THE STREET NAME SIGN LETTERING SHALL BE 6" UPPERCASE AND 4.5" LOWERCASE HIGHWAY GOTHIC FONT, WITH STYLE AND SPACING AS ESTABLISHED IN THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC DEVICES (CAMUTCD), CURRENT EDITION. STROKE WIDTH AND LETTER WIDTH USED FOR THE WHOLE STREET NAME MAY VARY FROM SERIES B TO SERIES E (REFER TO FHWA STANDARD SIGNS AND MARKINGS SIGN FONTS AT HTTP://MUTCD.FHWA.DOT.GOV/SHSE/ALPHABETS.PDF). THE MINIMUM GAP DISTANCE BETWEEN THE DIRECTIONAL ARROW AND THE STREET NAME SHALL EQUAL THE SPACING USED FOR THE BLANK SPACES IN THE STREET NAME. THE FIRST LINE OF TEXT ON THE SIGN SHALL ONLY CONTAIN THE NAME OF THE STREET. IF THE STREET NAME IS MADE OF PARTS, SOME OF THE PARTS OF THE NAME MAY BE PUT ON THE SECOND LINE OF TEXT TO MINIMIZE THE LENGTH OF THE SIGN. THE STREET NAME SUFFIX (St, BI, Rd, Av, Dr, Ln, Wy) SHALL BE PLACED ON THE SECOND LINE OF TEXT. BOTH LINES OF TEXT ARE TO BE CENTERED HORIZONTALLY ON THE SIGN.
- 4. THE BLOCK NUMBER IS DISPLAYED IN WHITE ON THE STREET NAME SIGN. THE BLOCK NUMBER LETTERING SHALL BE 4.5" HIGH HIGHWAY GOTHIC FONT, WITH STYLE AND SPACING PER CAMUTCD, CURRENT EDITION. THE SERIES USED FOR THE WHOLE BLOCK NUMBER SHALL BE THE SAME SERIES THAT IS USED FOR THE STREET NAME. THE BLOCK NUMBER SHALL BE CENTERED HORIZONTALLY ON THE STREET NAME SIGN.
- 5. IF THE BLOCK NUMBER INCREASES TO THE LEFT OF THE SIGN, THEN USE A LEFT BLOCK NUMBER ARROW ON THE LEFT SIDE OF THE BLOCK NUMBER. BLOCK NUMBER AND THE BLOCK NUMBER ARROW SHALL BE SEPARATED BY 4". THE COMPASS DIRECTION OF THE BLOCK NUMBER ARROW FOR EACH STREET NAME SIGN SHALL BE SPECIFIED WHEN ORDERED.
- 6. SIGNS SHALL BE MOUNTED ON TRAFFIC SIGNAL POLES PER DS-13F

| DRAWN BY: _GF CHECKED BY: <u>KVS</u> | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--------------------------------------|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | | NEW | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | | | GF | 8/2014 |
| MI La liste | STREET NAME SIGN NOTES FOR | | | |
| MOHAMAD FAKHRRIDDINE, P.E. | SIGNALIZED INTERSECTIONS | DRAW NUMB | ING D | S-13E |



TYPICAL ELEVATION

- 1. THE NEW STREET NAME SIGN SHALL BE MOUNTED ON THE POLE APPROXIMATELY 17 FEET ABOVE THE GROUND SURFACE (ABOVE THE POLE MOUNTED SIGNAL HEAD AND IF POSSIBLE ABOVE THE MAST ARM). THE MOUNTING ASSEMBLY SHALL BE AN ASTRO SIGN—BRAC BAND MOUNT ASSEMBLY OR APPROVED EQUAL. ONE MOUNTING BRACKET ASSEMBLY SHALL BE USED PER 16 SQUARE FEET OF SIGN AREA. SIGNS SHALL BE MOUNTED WITH A 5—DEGREE TILT FROM VERTICAL TOWARD ONCOMING TRAFFIC FOR EASY READING. SIGNS SHALL BE MOUNTED SO THAT THE SIGN TEXT IS LEVEL. SITE PLANS SHALL SHOW THE APPROXIMATE ORIENTATIONS OF INDIVIDUAL SIGNS.
- 2. IF THE NEW STREET NAME SIGN CANNOT BE MOUNTED ON THE POLE AS DESCRIBED ABOVE, THE SIGN SHALL BE MOUNTED ON THE MAST ARM NEXT TO THE POLE. AN ASTRO SIGN—BRAC BAND MOUNT ASSEMBLY OR APPROVED EQUAL SHALL BE USED TO MOUNT THE NEW STREET NAME SIGN ONTO THE TRAFFIC SIGNAL MAST ARM. ONE MOUNTING BRACKET ASSEMBLY SHALL BE USED PER 16 SQUARE FEET OF SIGN AREA. SIGNS SHALL BE MOUNTED WITH A 5—DEGREE TILT FROM VERTICAL TOWARD ONCOMING TRAFFIC FOR EASY READING. SIGNS SHALL BE MOUNTED SO THAT THE SIGN TEXT IS LEVEL. SITE PLANS SHALL SHOW THE APPROXIMATE ORIENTATIONS OF INDIVIDUAL SIGNS.

| DRAWN BY: _GF_ | CHECKED BY: _KVS. | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|---------------------|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: | JEFF S. MOODY, P.E. | SAN DIEGO COUNTY DESIGN STANDARD | | JSM | 10/2012 |
| APPROVED BY COU | NTY ENGINEER | SIGN MOUNTING DETAIL FOR | | | |
| MOHAMAD FAKHRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | | SIGNALIZED INTERSECTIONS | DRAW NUMB | ER D | S-13F |

| | AME TO BE BREVIATED | ABBREVIATION | NAME TO ABBREVIATED | ABBREVIATION |
|--------------|------------------------|------------------|------------------------|-----------------------|
| | Avenida | Avd | Place | PI |
| | Avenue | Av | Plaza | Plz |
| | Boulevard | BI | Rambla | Rmbla |
| | Calle | Cl | Ranch | Rch |
| | Callejon | Clj - | Rancho | Rcho |
| | Caminito | Cmto | Ridge | Rdg |
| | Camino | Cam | River | Riv |
| | Center | Ctr | Road | Rd |
| | Circle | Cir | Saint — used at the | St |
| | Corte | Cte | beginning of a name | |
| | Court | Ct | Santa | Snta |
| | Creek | Ck | South | S |
| | Drive | Dr | Spring | Spg |
| | East | E | Springs | Spgs |
| | Estate | Est | Station | Sta |
| - | Freeway | Fwy | Street — used at the | St |
| | Gardens | Gdns | end of a name | |
| | Heights | Hts | Summit | Smt |
| | Highlands | Hghlds | Terrace | Ter |
| | Highway | Hwy | Trail | Tr |
| | Lake | Lk | Truck Trail | TT |
| | Lane | Ln | Valley | Vly |
| | Loop | Lp | View | Vw |
| | Meadow | Mdw | Village | Vlg |
| | Mount | Mt | Vista | Vis |
| | Mountain | Mtn | Way | Wy |
| | North | N | West | W |
| | Park | Pk | | |
| | Parkway | Pkwy | | |
| | Paseo | Pas | | |
| DRAWN BY: GF | CHECKED BY: KVS | SAN DIEGO COUNTY | DESIGN STANDARD RE | VISIONS APPROVED DATE |

RECOMMENDED BY: JEFF S. MOODY, P.E.

APPROVED BY COUNTY ENGINEER

DATE: 10/15/13

MOHAMAD FAKHKRIDDINE, P.E.
R.C.E. NO. 44520, EXP 3/31/2014

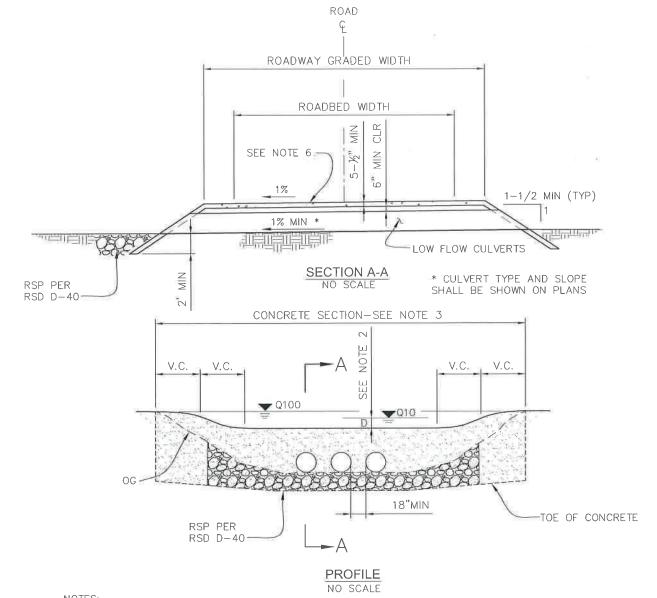
SAN DIEGO COUNTY DESIGN STANDARD

ABBREVIATIONS FOR STREET NAME SIGNS

REVISIONS APPROVED DATE

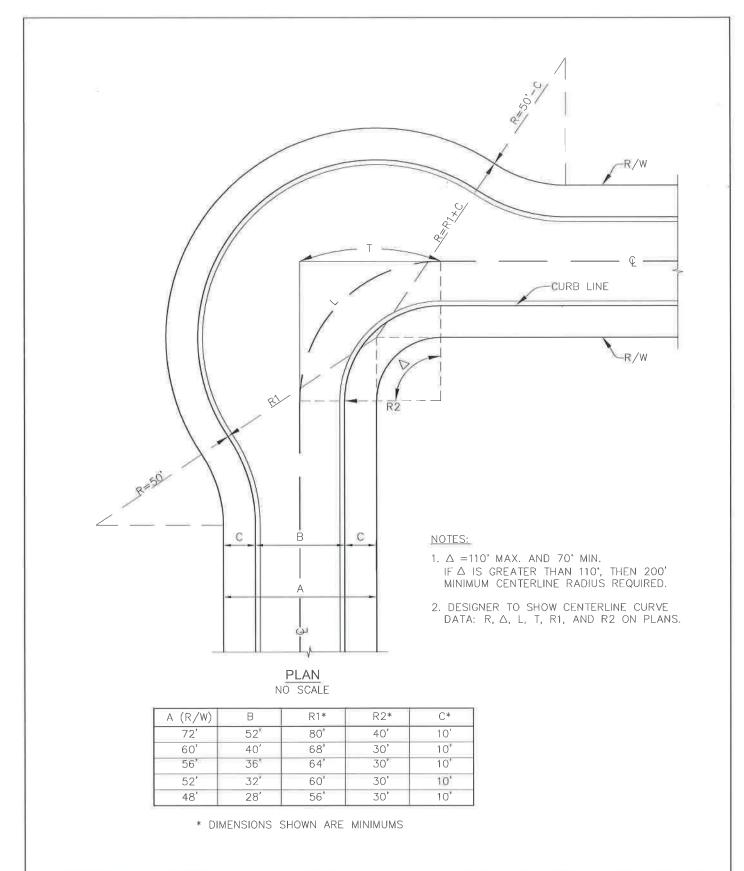
NEW JSM 10/2012

DRAWING DS-13G

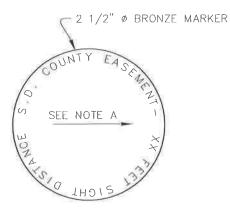


- 1. DIP SECTIONS SHALL CONFORM TO SECTION 5.11, "DRAINAGE IMPROVEMENTS" OF THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS.
- 2. THE MAXIMUM WATER DEPTH FOR A Q10 FREQUENCY STORM (D), SHALL NOT EXCEED 10" AND THE DEPTH (D) IN FEET MULTIPLIED BY THE VELOCITY (V) IN FEET PER SECOND SHALL NOT EXCEED 6.
- 3. PORTLAND CEMENT CONCRETE SHALL EXTEND AT LEAST TO THE LIMITS OF THE Q100 FLOODWAY.
- 4. VERTICAL CURVES (V.C.) SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS.
- 5. LOW FLOW CULVERTS (18" MINIMUM DIAMETER) MAY BE OMITTED IF THE CONDITIONS OF NOTES 2 AND 3 CAN BE SATISFIED WITHOUT THEIR USE.
- 6. PORTLAND CEMENT CONCRETE SHALL CONFORM TO EITHER GREENBOOK 560—C--3250 OR CALTRANS MINOR CONCRETE. REINFORCING STEEL SHALL CONSIST OF A MINIMUM 6" X 6" X 10 GA WWF.

| DRAWN BY: PBM CHECKED BY: JSM | CAN DIECO COUNTY DECION CTANDADD | REVISIONS | APPROVED | DATE |
|---|----------------------------------|-------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTY DESIGN STANDARD | | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | DIP SECTION | | | |
| DATE: 0/13//3 MOHAMAD FAKHRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | (PRIVATE ROAD) | DRAWING DS- | | |



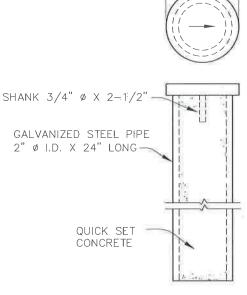
| DRAWN BY: PBM CHECKE | D BY: JSM | CAN DIFOO COLINITY DECICNI CTANDARD | REVISIONS | APPROVED | DATE |
|---|--------------------------|-------------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. M | | SAN DIEGO COUNTY DESIGN STANDARD | | JSM | 10/2012 |
| APPROVED BY COUNTY ENGIN | IEER . | STREET KNUCKLE | | | |
| MOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/20 | . <u>/o/is//j</u> 014 | | DRAW NUMB |)S-15 | |



BRONZE MARKER NO SCALE

NOTE A

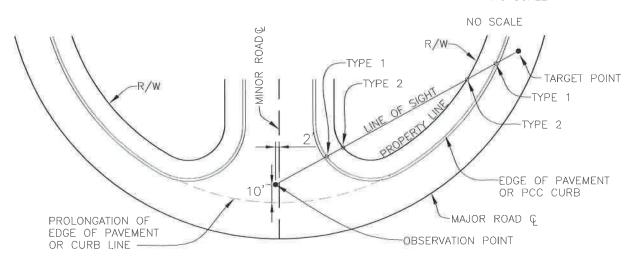
ROTATE ARROW TO INDICATE LOCATION OF TARGET POINT. SHOW SIGHT DISTANCE (XX) IN FEET



TYPE 2 MARKER

2 1/2"

NO SCALE



NO SCALE

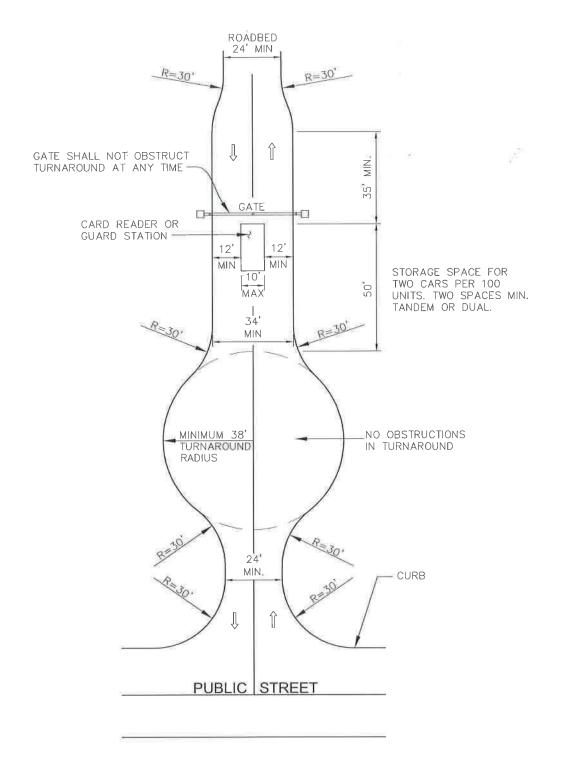
NOTES:

TYPE 1: BRONZE MARKER TO BE SET IN PCC CURB WHERE LINE-OF-SIGHT INTERSECTS CURB.

TYPE 2: IF NO PCC CURB, SET BRONZE MARKER IN CONCRETE IN 2" Ø X 24" LONG GALVANIZED STEEL PIPE AT THE INTERSECTION OF THE LINE-OF-SIGHT AND PROPERTY LINE.

CLEAR SPACE EASEMENTS FOR SIGHT DISTANCE, WHERE SPECIFIED ON PLANS, SHALL BE DESIGNATED BY A BRONZE MARKER ACCORDING TO EITHER TYPE 1 OR TYPE 2 ABOVE.

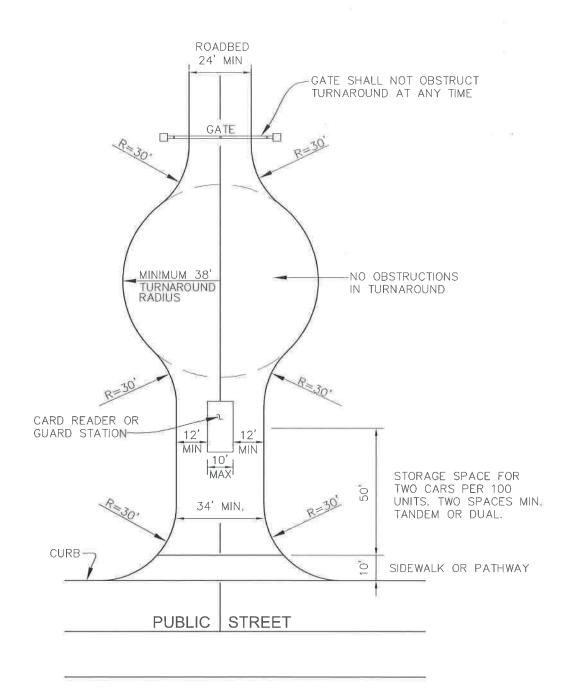
| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTY DESIGN STANDARD | | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER DATE: 10/15/12 MOHAMAD FASHRIBDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | CLEAR SPACE EASEMENT MARKERS | DRAW NUMB | |)S-16 |



GATED DRIVEWAY ENTRANCE

NO SCALE

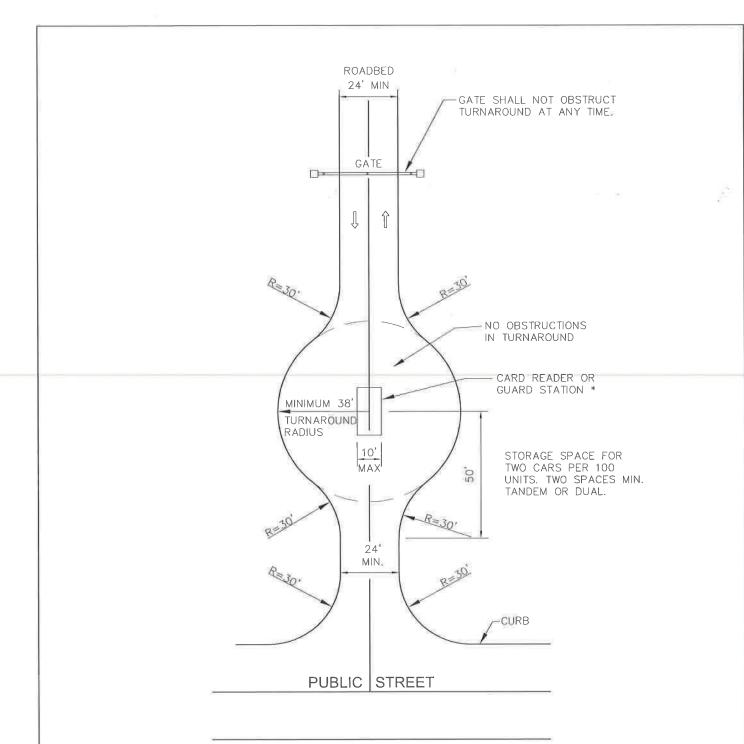
| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDARD | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | GATED DRIVEWAY ENTRANCE | | | |
| MOHAMAD FAKHRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | TYPE I | DRAW NUMB | ING E |)S-17 |



GATED DRIVEWAY ENTRANCE

NO SCALE

| DRAWN BY: PBM | CHECKED BY: JSML | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--|---------------------|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: | JEFF S. MOODY, P.E. | SAN DIEGO COUNTY DESIGN STANDARD | | JSM | 10/2012 |
| APPROVED BY COU | NTY ENGINEER | GATED DRIVEWAY ENTRANCE | | | |
| MOHAMAD FAKHRRIDDINE, P.E. KCF NO. 44520 FXP. 3/31/2014 | | TYPE II | DRAW NUMB | ING E |)S-18 |



GATED DRIVEWAY ENTRANCE

NO SCALE

* CARD READER OR GUARD STATION MUST PROVIDE SUFFICIENT ROOM FOR AN EMERGENCY VEHICLE TO TURN AROUND.

| DRAWN BY: PBM CHECKED BY: | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|-------------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY | 3,11 51233 333111 323131 3111131113 | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | GATED DRIVEWAY ENTRANCE | | | |
| MOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | TYPE III | DRAW NUME | ING E |)S-19 |

OBSTRUCTIONS WITHIN CLEAR SPACE, LOW GROWING OBSERVATION POINT SHALL BE GROUND COVER ONLY. LABEL ON PLANS AS "CLEAR SPACE EASEMENT. NO SIGHT OBSTRUCTIONS WITHIN THIS 10' FROM ROAD "A" EDGE OF SPACE". SPECIFY TYPE OF MARKER PER DS-16 AND PAVEMENT (OR PROLONGATION LIST COORDINATES OF EACH MARKER. SHOW TURNING OF CURB LINE) AND 2' RIGHT POINTS AND BEARING OF EASEMENT. RECORD EASEMENT. OF ROAD "B" CENTERLINE AT A HEIGHT OF 3.5' = CURB AND GUTTER OR EDGE OF PAVEMENT ROAD "A B" ROAD R/W TARGET OBJECT 4.25' HIGH LOCATED ON ROAD "A" CENTERLINE = TARGET OBJECT 4.25' HIGH LOCATED 8' FROM CURB & GUTTER OR EDGE OF PAVEMENT.

CLEAR SPACE EASEMENT - NO TREES OR OTHER SIGHT

CLEAR SPACE EASEMENT AREA

INTERSECTION SIGHT DISTANCE

NO SCALE

PER COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS THE REQUIRED MINIMUM INTERSECTION SIGHT DISTANCE SHALL BE TEN TIMES THE DESIGN SPEED OF THE MAJOR ROAD (ROAD "A" DESIGN SPEED (MPH) X 10FT/MPH). INTERSECTION SIGHT DISTANCE IS MEASURED FROM AN OBSERVATION POINT 2 FEET RIGHT OF ROAD "B" CENTERLINE AND 10 FEET BACK FROM ROAD "A" EDGE OF PAVEMENT (OR PROLONGATION OF CURB LINE) AND MEASURED FROM A HEIGHT OF 3.5 FEET TO AN OBJECT HEIGHT OF 4.25 FEET.

NOTE THE REQUIRED SIGHT DISTANCE APPLIES TO BOTH HORIZONTAL AND VERTICAL OBSTRUCTIONS.

| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|--|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN BIEGO COUNTI BESIGN STANDAND | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER DATE: 6/15/12 MCHAMAD FAKHRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | CLEAR SPACE EASEMENT TYPE A | DRAW NUMB | ING D | S-20A |

CLEAR SPACE EASEMENTS- NO TREES OR OTHER SIGHT OBSTRUCTIONS WITHIN CLEAR SPACE, LOW GROWING GROUND COVER ONLY. LABEL ON PLANS AS "CLEAR SPACE EASEMENT. NO SIGHT OBSTRUCTIONS WITHIN THIS SPACE." SPECIFY TYPE OF MARKER PER DS-16 AND LIST COORDINATES OF EACH MARKER. SHOW TURNING POINT AND BEARING OF EASEMENT. RECORD EASEMENT LINE-OF-SIGHT LINE-OF-SIGHT OFFSET 2' RIGHT OF G R/W -R/W OBJECT HEIGHT = 4.25' OBJECT HEIGHT = 4.25' OBSERVATION POINT IS 10' FROM ROAD "A" EDGE OF PAVEMENT AND 2' RIGHT OF ROAD "B" CENTERLINE AT HEIGHT OF 3.5'

CLEAR SPACE EASEMENT AREA

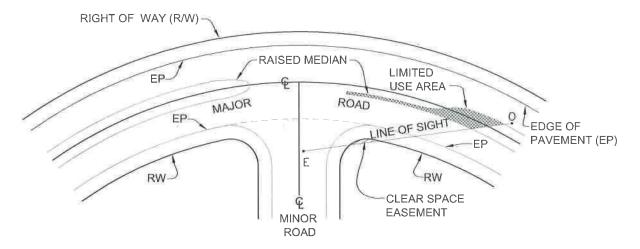
INTERSECTION SIGHT DISTANCE

NO SCALE

PER COUNTY PUBLIC ROAD STANDARDS THE REQUIRED MINIMUM INTERSECTION SIGHT DISTANCE SHALL BE TEN TIMES THE DESIGN SPEED OF THE MAJOR ROAD (ROAD "A" DESIGN SPEED (MPH) X 10FT/MPH). INTERSECTION SIGHT DISTANCE IS MEASURED FROM AN OBSERVATION POINT 2 FEET RIGHT OF ROAD "B" CENTERLINE AND 10 FEET BACK FROM ROAD "A" EDGE OF PAVEMENT (OR PROLONGATION OF THE CURB LINE) AND MEASURED FROM A HEIGHT OF 3.5 FEET TO AN OBJECT HEIGHT OF 4.25 FEET.

NOTE THE REQUIRED SIGHT DISTANCE APPLIES TO BOTH HORIZONTAL AND VERTICAL OBSTRUCTIONS

| | | 100 | | |
|--|----------------------------------|--------------|----------|---------|
| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDARD | REV | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | CLEAR SPACE EASEMENT | | | |
| DATE: //3/2 MOHAMAD FANHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | TYPE B | DRAWING DS-2 | | S-20B |



LIMITED USE AREA. NO SIGHT OBSTRUCTIONS OR VEGETATION WITHIN THIS AREA.

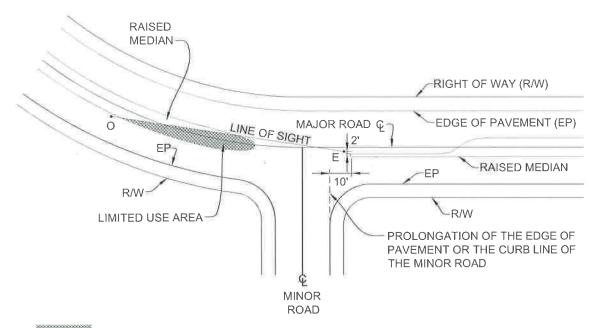


CLEAR SPACE EASEMENT. NO SIGHT OBSTRUCTIONS WITHIN THIS AREA. REFER TO DS-16, DS-20A AND DS-20B OF THESE DESIGN STANDARDS.

- E = OBSERVATION POINT OF MOTORIST ON MINOR ROAD. THE OBSERVATION POINT IS LOCATED 10 FEET BACK FROM THE PROLONGATION OF THE EDGE OF PAVEMENT OR CURB LINE OF THE MAJOR ROAD AND 2 FEET RIGHT OF THE MINOR ROAD CENTERLINE. SIGHT DISTANCE IS MEASURED FROM AN EYE HEIGHT OF 3.5 FEET ABOVE THE ROAD SURFACE AT THE OBSERVATION POINT.
- O = LOCATION OF THE OBJECT VEHICLE ON THE MAJOR ROAD. THE OBJECT VEHICLE HEIGHT IS 4.25 FEET ABOVE THE ROAD SURFACE AND THE VEHICLE LOCATION IS THE MOST CRITICAL OF EITHER 2 FEET FROM THE MEDIAN OR 8 FEET FROM THE RIGHT EDGE OF TRAVELED WAY DEPENDING ON THE NUMBER OF LANES AND ROAD ALIGNMENT.
- LINE OF SIGHT= LINE ALONG WHICH SIGHT DISTANCE IS MEASURED. THE REQUIRED MINIMUM SIGHT DISTANCE IS SPECIFIED IN THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS. ALSO REFER TO DETAILS DS-20A AND DS-20B OF THESE DESIGN STANDARDS.
- CLEAR SPACE EASEMENT = AREA OUTSIDE THE ROAD RIGHT OF WAY REQUIRING RESTRICTIONS ON SIGHT DISTANCE OBSTRUCTIONS. CLEAR SPACE EASEMENTS SHALL BE MONUMENTED AND RECORDED IN ACCORDANCE WITH DETAILS DS-16, DS-20A AND DS-20B OF THESE DESIGN STANDARDS.
- LIMITED USE AREA = AREA WITHIN RAISED MEDIANS WHERE SIGHT OBSTRUCTIONS AND VEGETATION ARE PROHIBITED.

NOTE: ALL LIMITED USE AREAS SHALL BE NOTED ON THE ROAD IMPROVEMENT AND LANDSCAPING PLANS WITH CONSPICUOUS TEXT STATING NO SIGHT OBSTRUCTIONS OR VEGETATION IN THIS AREA.

| DRAWN BY: KVS CHECKED BY: MLK | CAN DIECO COUNTY DECION CTANDADO | REVISIONS | APPROVED | DATE |
|---|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTY DESIGN STANDARD | | MLK | 10/2012 |
| APPROVED BY COUNTY ENGINEER | LIMITED USE AREA | | | |
| DATE: 10/23//2 MOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | TYPE A | DRAW NUMB | ING D | S-20C |



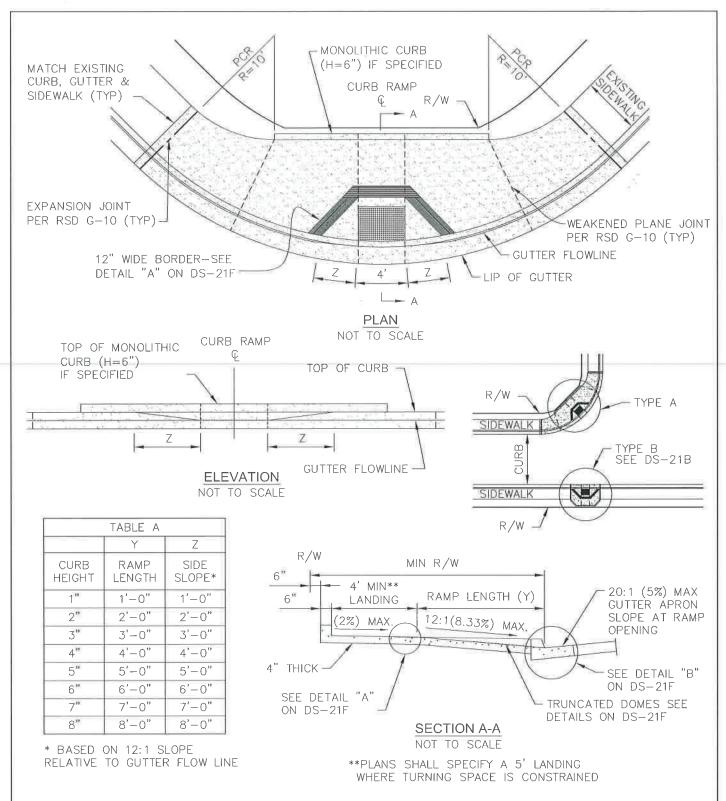
LIMITED USE AREA. NO SIGHT OBSTRUCTIONS OR VEGETATION WITHIN THIS AREA.

- E = OBSERVATION POINT OF MOTORIST ON THE MAJOR ROAD TURNING LEFT. THE OBSERVATION POINT IS LOCATED 10 FEET BACK FROM THE PROLONGATION OF THE EDGE OF PAVEMENT OR CURB LINE OF THE MINOR ROAD AND 2 FEET RIGHT OF THE MAJOR ROAD MEDIAN OR STRIPED CENTERLINE. SIGHT DISTANCE IS MEASURED FROM AN EYE HEIGHT OF 3.5 FEET ABOVE THE ROAD SURFACE AT THE OBSERVATION POINT.
- O = LOCATION OF THE OBJECT VEHICLE APPROACHING THE INTERSECTION ON THE MAJOR ROAD. THE APPROACHING VEHICLE OBJECT HEIGHT IS 3.5 FEET ABOVE THE ROAD SURFACE AND THE VEHICLE IS ASSUMED LOCATED AT THE MOST CRITICAL OF EITHER 2 FEET RIGHT OF THE MEDIAN OR 8 FEET FROM THE RIGHT EDGE OF TRAVELED WAY DEPENDING ON THE NUMBER OF LANES AND ROAD ALIGNMENT.
- LINE OF SIGHT= LINE ALONG WHICH SIGHT DISTANCE IS MEASURED. SIGHT DISTANCE SHALL BE CALCULATED IN ACCORDANCE WITH THE 2011 AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, TABLE 9.13, "TIME GAP FOR CASE F, LEFT TURNS FROM MAJOR ROAD", BASED ON THE HIGHER OF THE DESIGN SPEED (PER ROAD CLASSIFICATION AND COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS) OR THE PREVAILING SPEED ON THE MAJOR ROAD, WHICHEVER IS GREATER, AND ADJUSTED FOR THE NUMBER OF LANES TO BE CROSSED AND GRADE APPROACHING THE INTERSECTION ON THE MAJOR ROAD. THE AASHTO SIGHT DISTANCE SHALL BE INCREASED BY 50 FEET AND THE RESULTANT SIGHT DISTANCE SHALL BE CONSPICUOUSLY NOTED ON THE PLAN.

LIMITED USE AREA = AREA WITHIN RAISED MEDIANS WHERE SIGHT OBSTRUCTIONS AND VEGETATION ARE PROHIBITED.

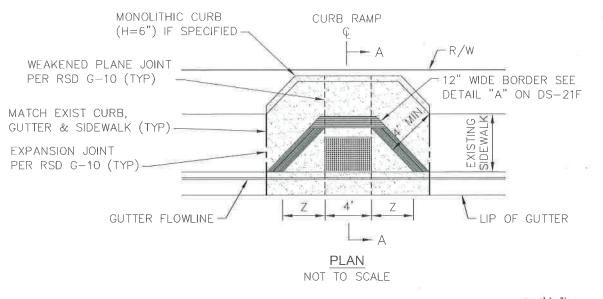
NOTE: ALL LIMITED USE AREAS SHALL BE NOTED ON THE ROAD IMPROVEMENT AND LANDSCAPING PLANS WITH CONSPICUOUS TEXT STATING NO SIGHT OBSTRUCTIONS OR VEGETATION IN THIS AREA.

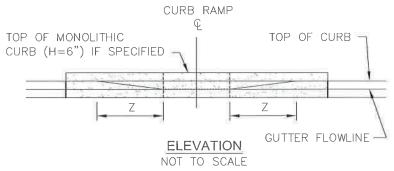
| | | | 2.7 | | |
|---|----------------------------|----------------------------------|-----------|----------|---------|
| DRAWN BY:_KVS_ | CHECKED BY: MLK. | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
| RECOMMENDED BY: | JEFF S. MOODY, P.E. | | NEW | MLK | 10/2012 |
| APPROVED BY COUN | NTY ENGINEER | LIMITED USE AREA | | | |
| MOHAMAD FAKURRIDD R.C.E. NO. 44520, EX | DINE, P.E. CP 3/31/2014 | TYPE B | NUMB | ER D | S-20D |

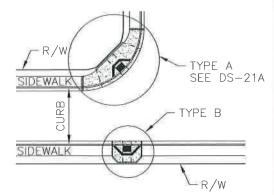


- 1. SEE DRAWINGS DS-21E AND DS-21F FOR ADDITIONAL INFORMATION
- 2. CURB RAMP SIDE SLOPES SHALL BE CONSTRUCTED PER TABLE A

| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|--|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COONTI DESIGN STANDAND | ADA | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER DATE: 10/15/12 MOHAMAD FAKHTRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | CURB RAMP - TYPE A (NEW CONSTRUCTION) | DRAW NUMB | ING D | S-21A |

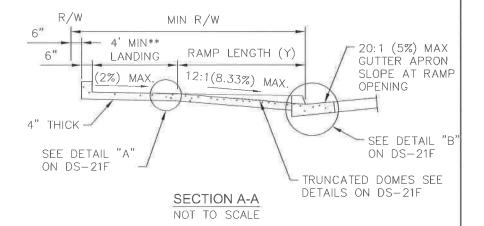






| | TABLE A | |
|----------------|----------------|----------------|
| | Υ | Z |
| CURB HEIGHT | RAMP LENGTH | SIDE SLOPE* |
| 1" | 1'-0" | 1'-0" |
| 2" | 2'-0" | 2'-0" |
| 3" | 3'-0" | 3'-0" |
| 4" | 4'-0" | 4'-0" |
| 5" | 5'-0" | 5'-0" |
| 6" | 6'-0" | 6'-0" |
| 7" | 7'-0" | 7'-0" |
| 8" | 8'-0" | 8'-0" |

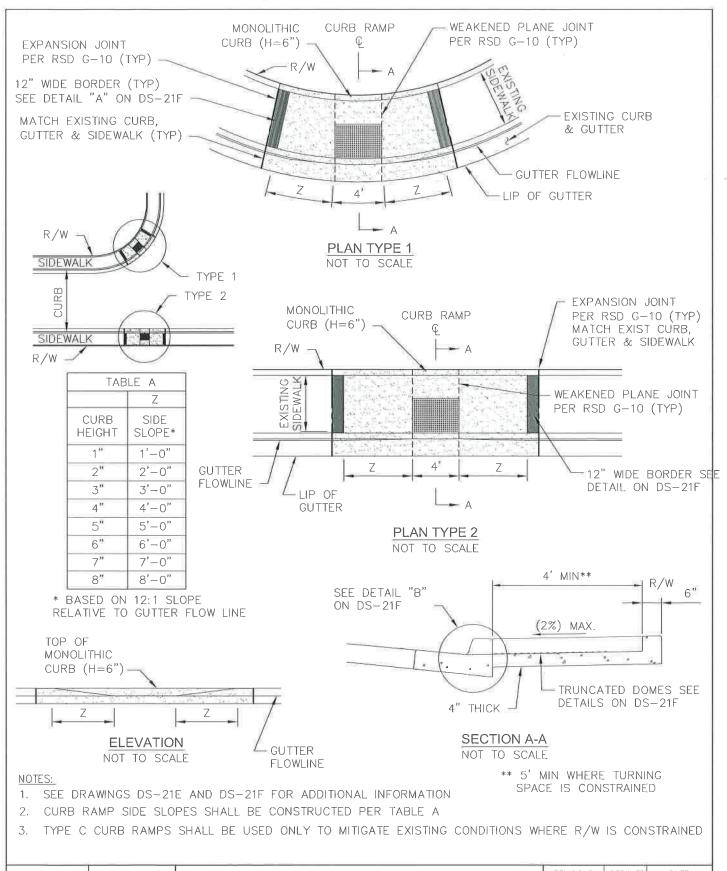
* BASED ON 12:1 SLOPE RELATIVE TO GUTTER FLOW LINE



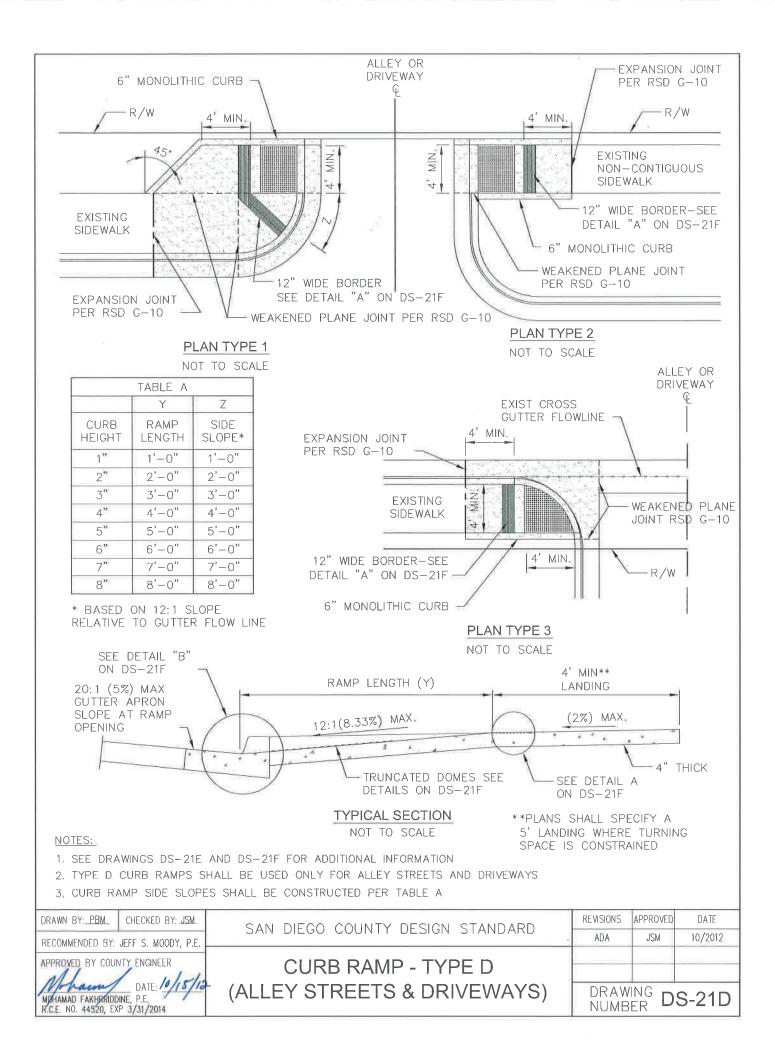
**PLANS SHALL SPECIFY A 5' LANDING WHERE TURNING SPACE IS CONSTRAINED

- 1. SEE DRAWINGS DS-21E AND DS-21F FOR ADDITIONAL INFORMATION
- 2. CURB RAMP SIDE SLOPES SHALL BE CONSTRUCTED PER TABLE A

| DRAWN BY: PBM CHECKED BY: JSM | CAN DIFOO COUNTY DECION CTANDARD | REVISIONS | APPROVED | DATE |
|--|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTY DESIGN STANDARD | ADA | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | CURB RAMP - TYPE B | | | |
| DATE: DATE: MOHAMAD FAKHRRIDDINE, P.E. | (NEW CONSTRUCTION) | DRAW NUMB | ING D | S-21B |



REVISIONS APPROVED DATE DRAWN BY: PBM CHECKED BY: JSM SAN DIEGO COUNTY DESIGN STANDARD ADA 10/2012 RECOMMENDED BY: JEFF S. MOODY, P.E. **CURB RAMP - TYPE C** (EXISTING SIDEWALK) DRAWING **DS-21C** MOHAMAD FAKHRRIDDINE, P.E. NUMBER R.C.E. NO. 44520, EXP 3/31/2014



CURB RAMPS NOTES:

- 1. REMOVAL AND REPLACEMENT OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK AND PAVEMENT FOR PEDESTRIAN RAMP INSTALLATION SHALL COMPLY WITH SAN DIEGO AREA REGIONAL STANDARD DRAWING G-11.
- 2. CURB RAMP CONCRETE SHALL CONSIST OF GREENBOOK CLASS 520-C-2500 OR CALTRANS MINOR CONCRETE AS SPECIFIED IN THE PROJECT SPECIAL PROVISIONS, AND SHALL BE FINISHED WITH A MEDIUM TO HEAVY BROOM TEXTURE FINISH PERPENDICULAR TO THE AXIS OF THE RAMP.
- 3. AREAS DELINEATED BY REPRESENTS THE MINIMUM REQUIRED FOR A COMPLETE RAMP INSTALLATION.
- 4 IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED THE RAMP LOCATIONS MAY BE ADJUSTED UPON APPROVAL BY THE ENGINEER.
- 5, CURB RAMP SIDE SLOPES ARE TO BE MEASURED RELATIVE TO THE GUTTER FLOWLINE GRADE.
- 6 LANDING SLOPE SHALL BE 2% MAX MEASURED PARALLEL TO THE CURB RAMP CENTERLINE.
- 7. THE EDGE OF THE TRUNCATED DOME PANEL SHALL BE LOCATED 6" MINIMUM AND 8" MAXIMUM FROM THE GUTTER FLOW LINE. SEE DETAIL "B" ON DRAWING DS-21F. ANY CUTTING OF PANELS REQUIRED FOR COMPLIANCE SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
- 8. WEAKENED PLANE JOINTS AND EXPANSION JOINTS SHALL CONFORM TO SAN DIEGO AREA REGIONAL STANDARD (RSD) DRAWING G-10.

DETECTABLE WARNING SURFACE (TRUNCATED DOME) NOTES:

- 9. TRUNCATED DOMES ARE A DETECTABLE WARNING SURFACE CONSISTING OF A CAST IN PLACE PREFABRICATED PANEL COMPOSED OF VITRIFIED POLYMER INCLUDING ALUMINUM OXIDE, SOUND AMPLIFYING, MATERIAL SUCH AS "ARMOR—TILE CAST—IN—PLACE TACTILE PANELS" OR APPROVED EQUAL.
- 10. THE CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION, INSTALLATION INSTRUCTIONS AND TWO (2) PANEL SAMPLES (MINIMUM SIZE 6"X 8" EACH) TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING OR INSTALLING MATERIALS.
- 11. DETECTABLE WARNING SURFACE SHALL BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO ORDERING.
- 12. THE DETECTABLE WARNING SURFACE SHALL BE COLORED DARK GREY CONTRASTING IN COLOR FROM CURB RAMP CONCRETE. THE CONTRAST SHOULD BE AT LEAST 70%. THE CONTRAST IN PERCENT IS DETERMINED BY:

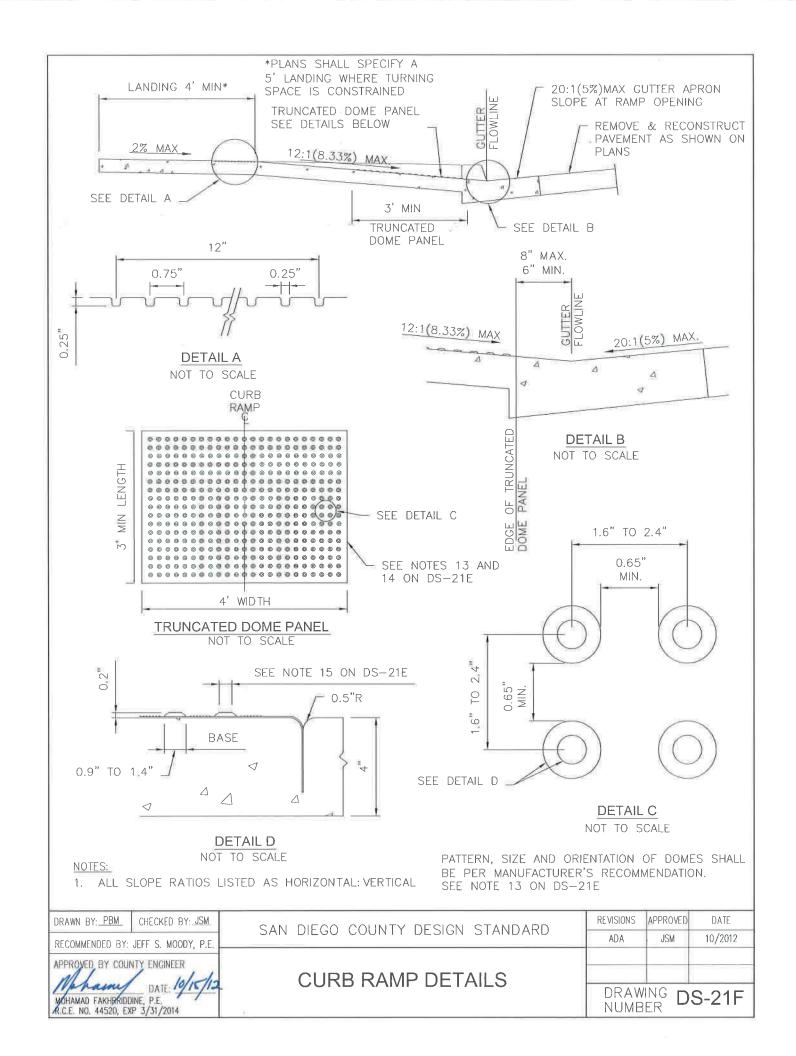
CONTRAST=((B1-B2)/B1)X100, WHERE

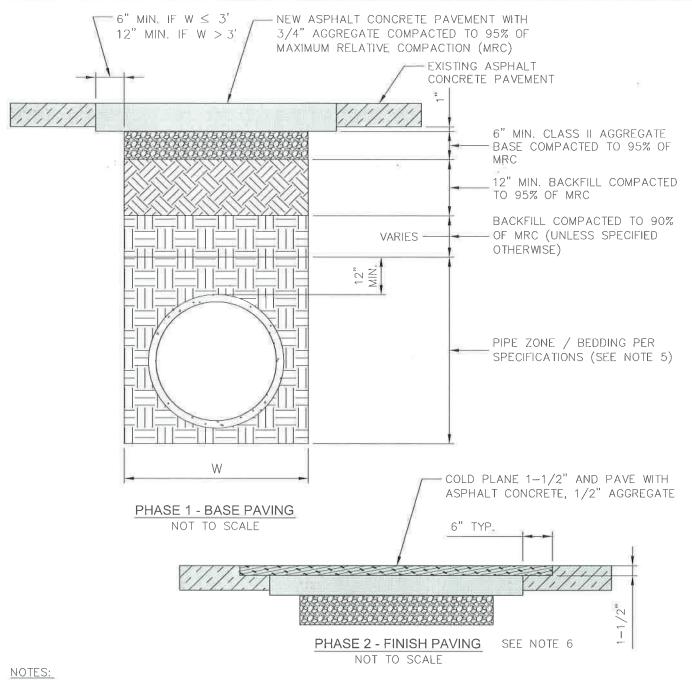
B1=LIGHT REFLECTANCE VAUE (LRV) OF THE LIGHTER AREA B2=LIGHT REFLECTANCE VAUE (LRV) OF THE LIGHTER AREA

NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN ZERO.

- 13. A CERTIFICATE OF COMPLIANCE SHALL BE FURNISHED TO CERTIFY THAT THE DETECTABLE WARNING SURFACES CONFORM TO THE AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES (ADAAG) AND REQUIREMENTS. THE CERTIFICATE OF COMPLIANCE SHALL INCLUDE A FIVE (5) YEAR WRITTEN MANUFACTURERS WARRANTY.
- 14. DURING PANEL INSTALLATION AND CONCRETE CURING THERE SHALL BE NO WALKING, LEANING OR EXTERNAL FORCES PLACED ON THE PANEL TO ROCK THE PANEL SO AS TO CAUSE A VOID BETWEEN THE PANEL AND THE CONCRETE, THE CONTRACTOR SHALL BLOCK OFF THE AREA TO PREVENT PEDESTRIAN ACCESS DURING CURING.
- 15 THE TOP DIAMETER OF EACH TRUNCATED DOME SHALL BE BETWEEN 50% MINIMUM AND 65% MAXIMUM OF THE BASE DIAMETER.

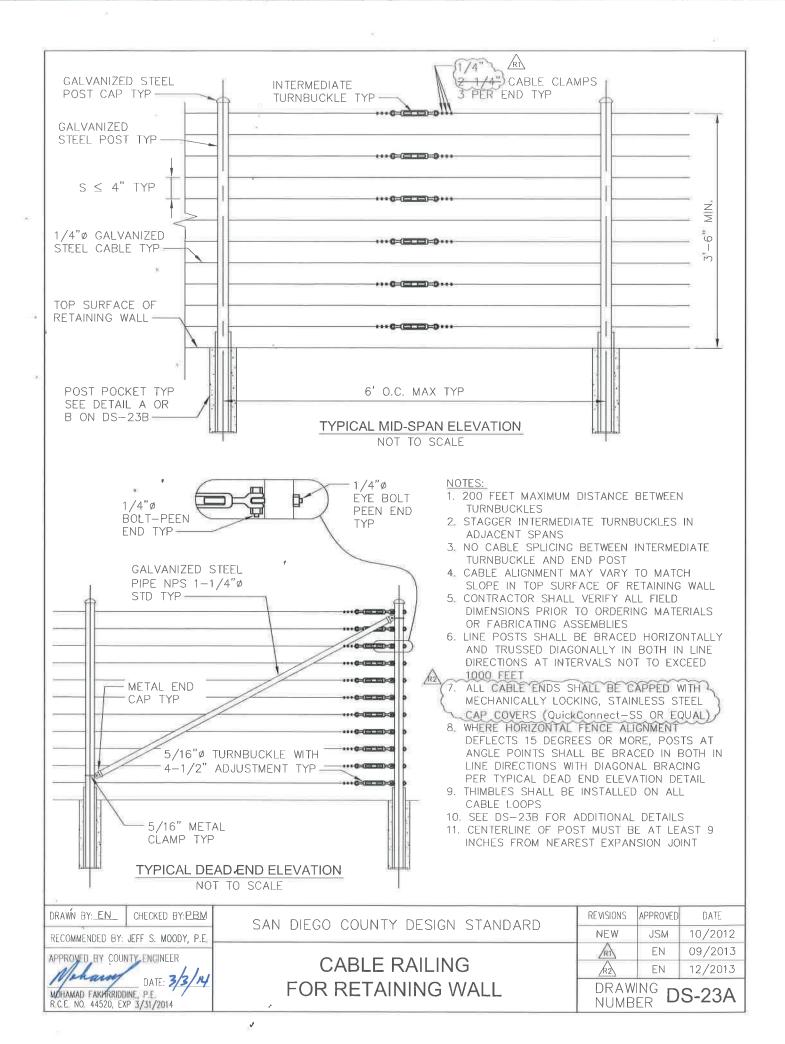
| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDARD | ADA | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | GENERAL NOTES | | | |
| MOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44820, EXP 3/31/2014 | FOR CURB RAMPS | DRAW NUMB | ING D | S-21E |

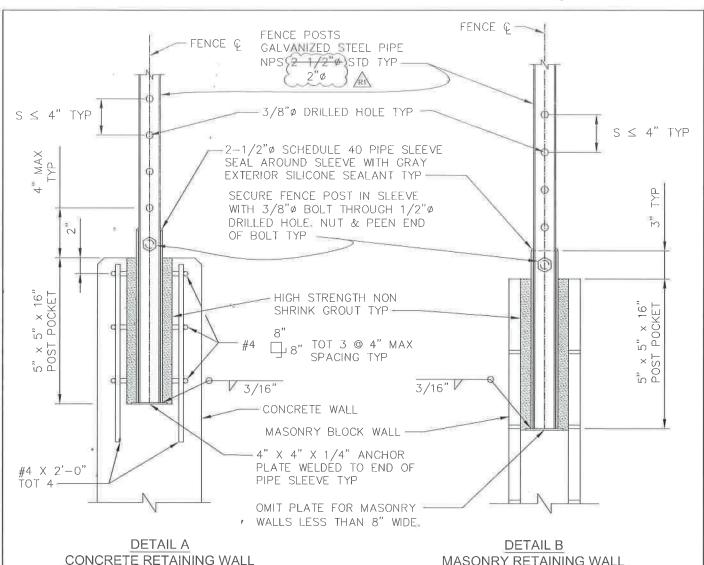




- 1. PAVEMENT MATERIAL AND SURFACING SHALL MATCH EXISTING.
- 2. ALL REMOVED SURFACE IMPROVEMENTS (CURBS, DIKES, SIDEWALKS, ETC.) SHALL BE REPLACED IN KIND.
- 3. ALL AREAS OF EXISTING AC LESS THAN 48" WIDE REMAINING AFTER TRENCHING SHALL BE COLD PLANED AND PAVED PER PHASE II FINISH PAVING.
- 4. PHASE I PAVEMENT THICKNESS SHALL EQUAL EXISTING PAVEMENT THICKNESS PLUS 1" (4" MINIMUM / 7" MAXIMUM).
- 5. WHEN GRAVEL OR ROCK IS USED WITHIN THE PIPE ZONE, THAT MATERIAL SHALL BE ENCAPSULATED IN A FILTER FABRIC ENVELOPE WITH W/2 > 12" MINIMUM OVERLAP. THIS REQUIREMENT APPLIES ONLY TO TRENCHES UNDER OR WITHIN 10' OF SURFACING.
- 6. PHASE II PAVING SHALL BE COMPLETED NOT EARLIER THAN 14 CALENDAR DAYS AND NOT LATER THAN 75 CALENDAR DAYS AFTER PHASE 1 PAVING.
- 7. FOR PCC PAVEMENT REFER TO RSD G25.

| DRAWN BY: PBM CHECKED BY: JSM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDAND | REV | MZL | 10/2012 |
| APPROVED BY COUNTY ENGINEER | TRENCH SURFACING | | | |
| MOHAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | TYPE R | DRAW NUMB | |)S-22 |

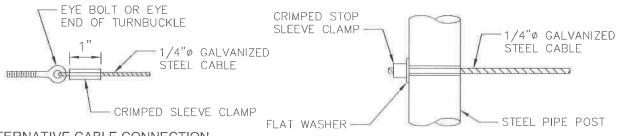




CONCRETE RETAINING WALL

NOT TO SCALE EXISTING REINFORCING NOT SHOWN FOR CLARITY MASONRY RETAINING WALL NOT TO SCALE

EXISTING REINFORCING NOT SHOWN FOR CLARITY



ALTERNATIVE CABLE CONNECTION

NOT TO SCALE

ALTERNATIVE DEAD END **ANCHORAGE**

NOT TO SCALE

NOTES:

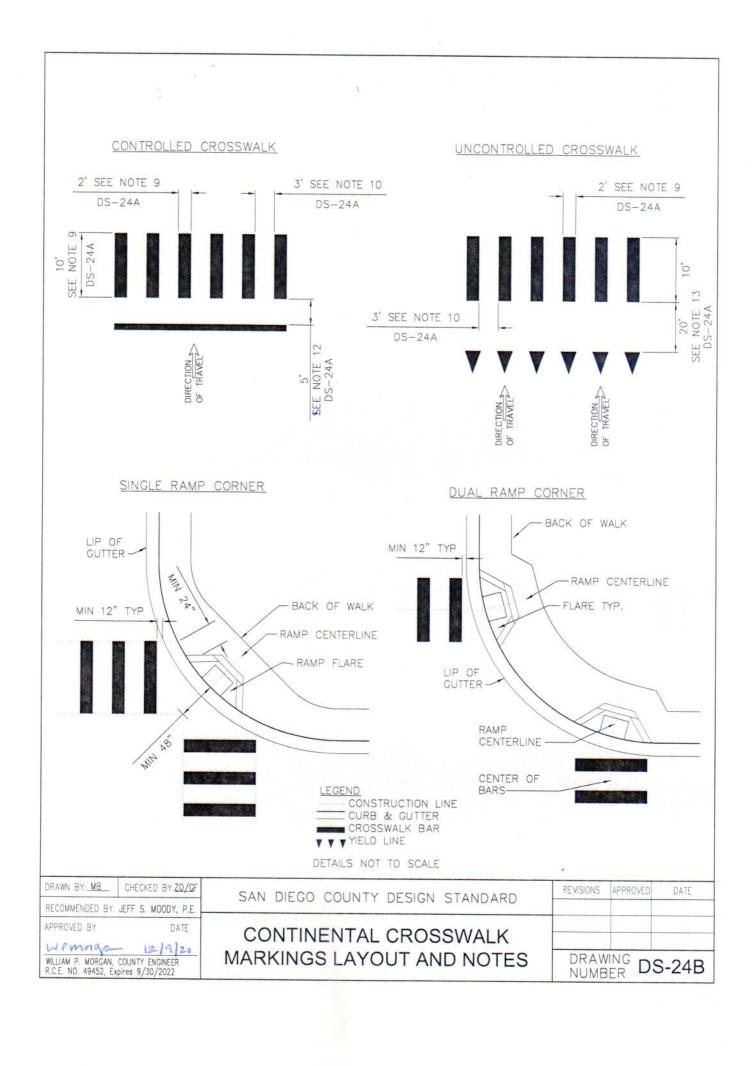
1. POST SHALL BE CENTERED IN WALL AND PLUMB

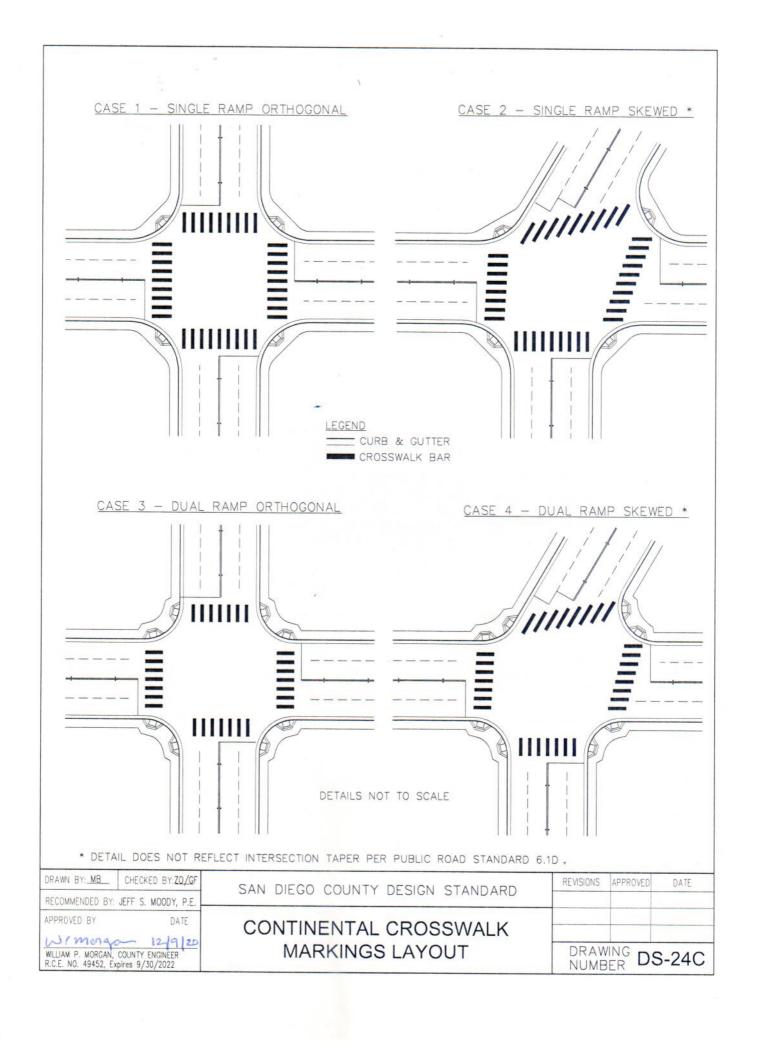
- 2. ALL METAL COMPONENTS AND HARDWARE SHALL BE HOT DIP GALVANIZED AFTER FABRICATION
- 3. ONLY ONE OF THE TWO ALTERNATIVE CONNECTIONS IS ALLOWED FOR THE SAME CABLE FND.

| DRAWN BY: EN CHECKED BY: PBM | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---|----------------------------------|--------------|----------|---------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | SAN DIEGO COUNTI DESIGN STANDAND | NEW | JSM | 10/2012 |
| APPROVED BY COUNTY ENGINEER | CABLE RAILING | RI | EN | 09/2013 |
| MOMAMAD FAKHRRIDDINE, P.E. R.C.E. NO. 44520, EXP 3/31/2014 | DETAILS | DRAW NUMB | ING D | S-23B |

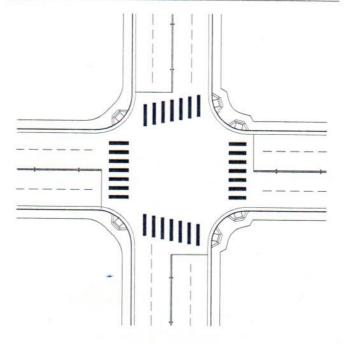
- 1. CONTINENTAL CROSSWALK MARKINGS SHALL COMPLY WITH THESE STANDARDS AND THE AMERICANS WITH DISABILITIES ACT (ADA). ANY DEVIATIONS SHALL BE SHOWN ON PLANS AND SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD).
- 2. ALL MARKED CROSSWALKS, CONTROLLED & UNCONTROLLED, SHALL BE CONTINENTAL CROSSWALK MARKINGS UNLESS OTHERWISE APPROVED.
- 3. SIGNALIZED INTERSECTIONS SHALL BE PROVIDED WITH A CONTINENTAL CROSSWALK MARKING ACROSS EACH LEG WHERE PEDESTRIANS ARE PERMITTED TO CROSS.
- 4. ALL CROSSWALK BARS SHALL BE OF THERMOPLASTIC MATERIAL. PRE-FORMED THERMOPLASTIC SHALL NOT BE USED ON CONCRETE SURFACES.
- 5. CROSSWALK BARS SHALL BE YELLOW IN SCHOOL ZONES. CROSSWALK BARS SHALL BE WHITE IN ALL NON-SCHOOL ZONE LOCATIONS.
- 6. CONTINENTAL CROSSWALK MARKINGS SHALL BE ALIGNED PARALLEL TO THE DIRECTION OF VEHICULAR TRAVEL.
- 7. CONTRACTOR SHALL WORK TO AVOID PLACING CROSSWALK BARS IN THE WHEEL PATHS OF VEHICULAR AND BICYCLIST TRAVEL. INSTALLATION OF INITIAL CROSSWALK BAR SHALL BE CENTERED ALONG YELLOW CENTERLINE OR ALONG THE CENTER OF PAVEMENT UNLESS OTHERWISE NOTED ON PLANS.
- 8. CROSSWALK BARS SHALL BE UNIFORM AND EVENLY SPACED WITHIN THE SAME CROSSING. NO PARTIAL CROSSWALK BARS SHALL BE INSTALLED.
- 9. CROSSWALK BARS SHALL BE 10 FEET LONG AND 2 FEET WIDE. ANY DEVIATION SHALL BE SHOWN ON PLANS.
- 10. CROSSWALK BAR SPACING SHALL NOT EXCEED 5 FEET WHEN TYPICAL GAP SPACING CANNOT BE MET. ANY DEVIATIONS SHALL BE SHOWN ON PLANS.
- 11. CROSSWALK MARKINGS BETWEEN A DUAL RAMP AND A SINGLE RAMP CORNERS SHALL BE 10 FEET WIDE AND SATISFY 2 FEET MINIMUM BEYOND RAMP FLARE.
- 12. LIMIT LINES SHALL BE 5 FEET IN ADVANCE OF MARKED CROSSWALKS FOR NON-SCHOOL ZONE AND 10 FEET IN ADVANCE FOR SCHOOL ZONE. LIMIT LINE SHALL COMPLY WITH CALTRANS STANDARD PLANS A24E. ANY DEVIATIONS SHALL BE SHOWN ON PLANS.
- 13. YIELD ARROW SHALL BE 20 FEET IN ADVANCE OF MARKED CROSSWALKS AND SHALL COMPLY WITH CALTRANS STANDARD PLANS A24E. ANY DEVIATIONS SHALL BE SHOWN ON PLANS.
- 14. MARKED CROSSWALK LOCATIONS CONSISTING OF BRICK PAVERS OR OTHER DECORATIVE PAVING SHALL BE PROVIDED WITH A LIMIT LINE ONLY.

| DRAWN BY: MB CHECKED BY: ZO/GF | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS APPROVED DATE |
|---|----------------------------------|-------------------------|
| RECOMMENDED BY: JEFF S. MOODY, P.E. | | |
| APPROVED BY DATE | CONTINENTAL CROSSWALK | |
| WILLIAM P. MORGAN, COUNTY ENGINEER R.C.E. NO. 49452, Expires 9/30/2022 | MARKINGS NOTES | DRAWING DS-24A |

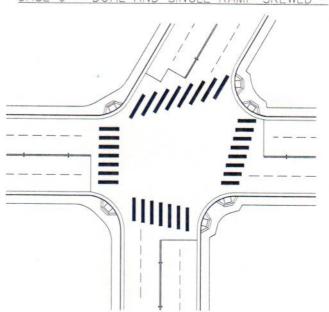




CASE 5 - DUAL AND SINGLE RAMP ORTHOGONAL



CASE 6 - DUAL AND SINGLE RAMP SKEWED *



LEGEND

CURB & GUTTER
CROSSWALK BAR

* DETAIL DOES NOT REFLECT INTERSECTION TAPER PER PUBLIC ROAD STANDARD 6.1.D.

| DRAWN BY: MB | CHECKED BY:ZO/GF | SAN DIEGO COUNTY DESIGN STANDARD | REVISIONS | APPROVED | DATE |
|---------------------------------------|------------------------|----------------------------------|-----------|----------|-------|
| RECOMMENDED BY | Y: JEFF S. MOODY, P.E. | SAN BIEGO COUNTI BESIGN STANDARD | | | |
| APPROVED BY | DATE | CONTINENTAL CROSSWALK | | | |
| WLLIAM P. MORGAN R.C.E. NO. 49452, | , COUNTY ENGINEER | MARKINGS LAYOUT | DRAW | WING DS | S-24D |

Revisions to San Diego County Design Standards

| Detail | |
|----------|--------|
| Dovicion | Dovici |

| DS-# | Name | Revision Number | Revision Date | Revision Description |
|--------|---|--------------------|------------------|--|
| | | | | |
| DS-24 | Continental Cross Walk Markings | New | 12/9/2020 | New Series (DS24 A-D) Proposed by County Traffic Engineer |
| DS-13C | Street Name Sign Details for Unsignalized Intersections | R2 | 1/30/2015 | A) Added thickness of Blade in Typical Street Name Bade Detail; B) Added Slot width dimension to Post Cap Detail; 3) Revised dimensions on Post Cap Half-Section Detail; 4) Revised note 1 to clarify; 5) Revised Post Setback detail and Table |
| DS-13C | Street Name Sign Details for Unsignalized Intersections | R1 | 10/15/2012 | A) Increased Post height to 12' and bottom clearance to 3"; B) Revised setback table; C) Added dimension to blade channel in Post Cap Detail; D) Revised dimensions in Post Cap Half Section Detail; E) Revised Notes; F) Drafting corrections. |
| DS-13B | Street Name Sign Notes for Unsignalized Intersections | R1 | 8/25/2014 | Revised Note 1, 4th sentence to remove White ASTM D4956 Type IX Sign Sheeting. |
| DS-13E | Street Name Sign Notes for Signalized Intersections | R1 | 8/25/2014 | Revised Note 1, 4th sentence to remove White ASTM D4956 Type IX Sign Sheeting. |
| DS23-A | Cable Railing For Retaining Wall | R2 | 3/3/2014 | Added Note 7 to require SS mechanically locking caps on all cable ends. Added Detail for cable end connections. |
| DS-23B | Cable Railing Details | R1 | 9/17/2013 | Correction - Changed fence post diameter from 2.5"Ø to 2"Ø |
| DS-23A | Cable Railing For Retaining Wall | R1 | 9/16/2013 | Correction - Changed callout from 2-1/4" Cable Clamps to 1/4" Cable Clamps 3 Per End Typ |
| DS-13 | Street Name Sign | R1 | 10/24/2012 | Detail expanded to a series of 7 details designated DS-13A thru DS-13G. Original Detail DS-13 renamed to DS-13C. See Document titled Changes to 2009 SDC Design Standards for a complete list of changes. Only major change was an increase in post length from 10' to 12' |
| DS-22 | Trench Resurfacing Type- R | New | 11/4/2009 | NEW DETAIL- Addresses trenching and resurfacing of trenches within the R/W |
| DS-21A | Curb Ramp - Type A & B (New Construction) | New | 9/27/2007 | NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel |
| DS-21B | Curb Ramp - Type A1 & B1 (For Existing Sidewalk) | New | 9/27/2007 | NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel |
| DS-21C | Curb Ramp - Type C (For Existing sidewalk) | New | 9/27/2007 | NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel |
| DS-21D | Curb Ramp - Type D | New | 9/27/2007 | NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel |
| DS-21E | General Notes for Curb Ramps | New | 9/27/2007 | NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel |
| DS-21F | Curb Ramp Details | New | 9/27/2007 | NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel |
| DS-07 | Asphalt Concrete Driveway | R1 | 9/14/2006 | Replaced Aggregate Base info omitted from previous plan. Changed gutter lip back to 0.1' |

2012 San Diego County Design Standards Revision History

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|------|---|---|
| 2012 | Oct 2012 SDCDS Uploaded to DPW Website | ٠ |
| 2012 | 09/07/2013 SDCDS-R1 Uploaded to DPW Website | |
| 2014 | 03/24/2014 SDCDS-R2 Uploaded to DPW Website | |
| 2014 | 08/25/2014 SDCDS-R3 Uploaded to DPW Website | |
| 2015 | 02/05/2014 SDCDS-R4 Uploaded to DPW Website | |
| 2020 | 12/22/2020 SDCDS-R5 Uploaded to DPW Website | |