NOTES
ADD the following SPECIAL NOTE:
1. Chain link fabric shall have knuckled finish on top edge.

NOTES
Amend Note 5: "Δ < 4". Guardrails and handrails for stairs and ramps more than 30" above have intermediate rails equally spaced such that a sphere 4" in diameter cannot pass through.

7. The clearance between handrail and wall is 1-1/2" absolute.
\[ Y = 2.25W \left(\frac{X}{L}\right)^2 \]

\( L = \text{LENGTH OF TRANSITION} \)
\( W = \text{MAXIMUM OFFSET DISTANCE} \)
\( X = \text{DISTANCE ALONG BASELINE} \)
\( Y = \text{OFFSET FROM BASELINE} \)

<table>
<thead>
<tr>
<th>L</th>
<th>DISTANCE X</th>
</tr>
</thead>
<tbody>
<tr>
<td>60'</td>
<td>5' 10' 15' 20' 25' 30' 35' 40' 45' 50' 55' 60'</td>
</tr>
<tr>
<td>90'</td>
<td>7.5' 15' 22.5' 30' 37.5' 45' 52.5' 60' 67.5' 75' 82.5' 90'</td>
</tr>
<tr>
<td>120'</td>
<td>10' 20' 30' 40' 50' 60' 70' 80' 90' 100' 110' 120'</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>W</th>
<th>OFFSET Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>10'</td>
<td>0.16' 0.62' 1.41' 2.50' 3.75' 5.00' 6.25' 7.50' 8.59' 9.38' 9.84' 10.00'</td>
</tr>
<tr>
<td>11'</td>
<td>0.17' 0.69' 1.55' 2.75' 4.13' 5.50' 6.88' 8.25' 9.45' 10.31' 10.83' 11.00'</td>
</tr>
<tr>
<td>20'</td>
<td>0.31' 1.25' 2.81' 5.00' 7.50' 10.00' 12.50' 15.00' 17.19' 18.75' 19.69' 20.00'</td>
</tr>
<tr>
<td>22'</td>
<td>0.34' 1.38' 3.09' 5.50' 8.25' 11.00' 13.75' 16.50' 18.91' 20.62' 21.66' 22.00'</td>
</tr>
</tbody>
</table>

**NOTE:**

To determine offset distance for any length of transition use the formula \( Y = 2.25W \left(\frac{X}{L}\right)^2 \) for the portions AB' and CD' which are parabolic curves. The portion B'C' is a tangent. When the baseline is curved, the offsets are applied to the curved baseline, and B'C' is no longer a tangent.
3 3/4" FRONT VIEW

6 5 4

EL CAJON BLVD
2500

48" LENGTH AS NECESSARY

2 1/2

10"

TOP VIEW

BLADES

SPACER

TELSPAR

LETTER STYLE: FUTURA BOLD CONDENSED
LETTER SIZE: 6" 5" 2 1/2"
CITY SEAL: 4"
BACKGROUND: TYPE IV PRISMATIC SHEETING
ELECTRO CUT BLUE OVER WHITE
.065 ALUMINUM
MOUNTED TO TELSPAR WITH 3/8" DRIVE RIVETS
4" TALL BY 1 1/4" SQ. CHANNEL SPACER HELD WITH VHB 4950 TAPE

Contractor shall contact City Of San Diego Sign Shop, (619) 527-7528
for a list of approved vendors for City Seal.
PERMANENT STREET NAME SIGNS

GENERAL:

Street name sign assembly for post top mounting shall consist of: Name Blade units, 24" long 1-1/2" Square Telespar extension and Drive Rivets. All as indicated on the Standard Drawings and/or specified in these notes. Assemblies shall be mounted to 1-3/4" square Telespar posts.

NAME BLADE UNITS:

Name Blade units shall be single faced and made from 10" wide (top to bottom) aluminum sheet stock, mill flat, 6061-T6 or 5052 alloy, .063 thick. Ends of blade to be perpendicular to top bottom edges. All edges shall be free of sharp burrs.

Each blade shall be drilled with two 7/16" holes, one at top and one at bottom edge of sign. Holes to be centered on blade and 1/2" from edge.

Blade shall be covered with type IV prismatic white reflective sheeting.

LETTERING:

Street name shall be cut from blue E.C. Film material and applied over the white background, creating a sign with a blue background and white lettering. Type font to be Futura Bold Condensed. Lettering height of street name shall be 6" for first letter and 5" for the rest of the name. Street and block number suffix to be 2-1/2" Futura Bold Condensed. Layout to be as shown on Sheet 1 of 4 on the Standard Drawing.

MOUNTING OF SIGN:

Each Name Blade shall be mounted to the 1-1/2" Telespar extension with a 3/8" Drive Rivet.

Each Street Name shall be mounted back to back with the Telespar sandwiched in between and the ends fastened together with VHB double stick tape. A Square channel spacer is required on blades shorter than 36". The extension is to be placed inside the 1-3/4" Telespar post and fastened with a Drive Rivet.
STREET NAME SIGN STANDARDS

Suffix and Prefix Abbreviations:

- Avenue AVE
- Street ST
- Court CT
- Drive DR
- Road RD
- Boulevard BLVD
- Terrace TER
- Mountain MTN
- Mount MT
- Caminito CMTO
- Camino CAM
- Rancho RCHO

Spell out "FIRST AVE through TWELFTH AVE"
Then: 13TH ST — 14TH ST etc.
LOCATION NOTES

1. ALONG MAJOR OR PRIMARY STREETS
   THERE SHALL BE 2 SIGN INSTALLATIONS
   PER INTERSECTION PLACED ON
   OPPOSITE CORNERS

2. ALONG A COLLECTOR OR LOCAL
   STREETS THERE SHALL BE ONE
   SIGN INSTALLATION PER INTERSECT-

--- Diagram with dimensions and details

10" DIAMETER FOOTING
OF 520-C-2500
CONCRETE

2" MIN.

SLOPE TO 1/4" ABOVE GRADE

SETBACK
(SEE TABLE)

PLEDGE ON PLAN

3

2

1

STREET NAME SIGN LOCATION
(NUMBERS INDICATE PRIORITY OF LOCATION
SELECTION WHEN THERE IS A CONFLICT
WITH OTHER IMPROVEMENTS)

SDM-102
NOTES:
1. Install drinking fountains so that right hand side faces prevailing wind.
2. Hand form a concrete bowl at bottom of yard box to facilitate sand clean out.
3. Perforated drain pipe and trench are to drain away from fountain.
4. Item no. 6 is a one-inch gate valve. Use red brass bushing reducers to adapt to feed pipe.
5. Locate drinking fountains in alcove or at areas outside the path-of-travel otherwise provide protective railing Per SDM-108.
6. Tool Joint -1/4" deep groove with 1/4" radius edges.
7. The running and cross slopes within the landing shall be 1.5% and designed so water does not accumulate.

LEGAL ON PLANS:
- Tool Joint - See note # 6
- Slope within landing shall be 1.5% in any direction.
- 12" wide borders See Detail A SDG-137, Sheet 3 of 3
- Texture to be heavy broom ripple finish with Pattern as shown.

Revision By Approved Date
Original SM A. Oskouei 12/03
Update FC A. Oskouei 12/06

CITY OF SAN DIEGO - STANDARD DRAWING

DRINKING FOUNTAINS

CITY OF SAN DIEGO STANDARDS COMMITTEE

COORDINATOR R.C.E 65271-Date

DRAWING NUMBER SDM-107
NOTES:

1. Dual height drinking fountains.
2. Unless located in an alcove, wing walls or protective railings are required on both sides of drinking fountains that project into the path of travel. Railings shall be 1-1/4" to 1-1/2" diameter pipe.
3. Handrails and Guardrails Material & Finish:
   a. Pipe railings shall be hot dipped galvanized or austenitic (non-corrosive) stainless steel.
   b. Pipe railings shall be seamless steel, ASTM A53 Grade B.
4. The landing shall be paved with a solid and stable material with a slip-resistant finish heavy broom textured finish. Requests for other slip-resistant finishes not specified here can be submitted to the designated Resident Engineer for review and approval prior to fabrication and installation.
5. The running and cross slope within the landing shall be 1.5% and designed so water does not accumulate within the entire landing surface.
NOTE: SIDEWALK SHALL HAVE A MINIMUM OF FOUR (4) FOOT CLEAR (PATH) PASSING PEDESTALS, PULLBOXES AND OTHER STRUCTURES.
NEW CONSTRUCTION

LINE

STORM DRAIN

SEWER

WATER

SOUTH OR EAST

STORM DRAIN

LINE

MAJOR STREET

STORM DRAIN

AND/OR WATER MAIN

SEWER

STORM DRAIN

AND/OR WATER MAIN

STORM DRAIN

AND/OR WATER MAIN

STORM DRAIN

AND/OR WATER MAIN

PROPERTY

PROPERTY

PRIME ARTERIAL

EXPRESSWAY

NOTE: SEE M-23 FOR LOCATION OF RECLAIMED WATER
NOTES:

1. ALL FOOTINGS SHALL BE 520-C-2500 CONCRETE.

2. THE FOLLOWING ITEMS SHALL BE FURNISHED AND INSTALLED ONLY WHEN SHOWN ON THE PLANS AND/OR CALLED FOR IN THE SPECIAL PROVISIONS:
   A. BARBED WIRE
   B. EXTENSION ARM

3. CHAIN LINK FENCE SHALL CONFORM TO SECTION 206-6 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION UNLESS SPECIFICALLY NOTED ON THIS DRAWING.

4. SEE STANDARD DRAWING M-20 FOR ADDITIONAL DETAILS.

5. CHAIN LINK FENCE AND ALL FITTINGS SHALL BE BLACK 22 MIL PRESSURE-BONDED OR 7 MIL THERMALLY-FUSED VINYL COATED, OVER 9 GAUGE ALUMINIZED STEEL CORE FABRIC PRIOR TO COATING. POSTS AND RAILS SHALL BE GALVANIZED STEEL, PVC VINYL BONDED, 10-14 MIL (COLOR TO MATCH FABRIC).

6. CHAIN LINK FABRIC SHALL HAVE KNUCKLED FINISH ON TOP EDGE.

LEGEND:

---

VINYL COATED CHAIN LINK FENCE

CITY OF SAN DIEGO - STANDARD DRAWING

DRAWING NUMBER SDM-112
**NOTES:**

1. 0.625" x 20 PENTA BOLT SS UNC THREAD, 316 STAINLESS STEEL SOCKET HEAD CAP SCREW AND 1.50" O.D. x 0.687" I.D. X 0.075 THICK 316 STAINLESS STEEL WASHER.
2. 0.25" NEOPRENE O-RING GASKET SHALL BE GLUED INTO MACHINED GROOVE. GLUE SHALL MEET THE REQUIREMENTS OF MIL-M-81288 (AMEND. 1)
3. BOLTDOWN PATTERNS:
   * M-1 DETAIL (84° COVER & FRAME): INSTALL TWO (2) BOLTS AT 180 DEGREES.
   * M-3A DETAIL (CONCENTRIC COVERS): BETWEEN INNER AND OUTER COVERS INSTALL TWO (2) BOLTS AT 180 DEGREES.
   * M-3B DETAIL (OUTER COVER & FRAME): BETWEEN OUTER COVER & FRAME INSTALL FOUR (4) BOLTS AT 90 DEGREES.

FOR M-1 AND M-3 OUTER COVER FRAME DRILL 4 HOLES FOR 0.375"X16 STAINLESS STEEL WEDGE ANCHORS 3.75"IN LENGTH AT 90 DEGREES.
NOTES

1. All footings shall be 520–C–2500 concrete.
2. The following items shall be furnished and installed only when shown on the plans and/or called for in the special provisions:
   a. Barbed wire
   b. Extension post
3. Chain link fence shall conform to Section 206-6 of the Standard Specification for Public Works Construction unless specifically noted on this drawing.
4. Chain link fabric shall have knuckled finish on top edge.

LEGEND ON PLANS

EXTENSION POST AND BARBED WIRE
ACCEPTABLE GATE HARDWARE

LEVER

PUSH/PULL

PANIC BAR

Dashed lines indicate extent of manuvering clearance area.
See Note 2 and 9.

12" hinge side clearance to obstruction

36" Clear

Width, min.

Truss Panel

Acceptable gate hardware

ISA Sign
See note 8

10" solid bottom @ both sides

24" Min

60" Min

Level Manuvering Clearance

6" Min

6" Min

International Symbol of Accessibility Sign (ISA)

MOUNTING DETAIL

12" min. dia.

NOTES

1. Gates that are accessible to and usable by persons with disabilities shall be provided with a least one International Symbol of Accessibility sign as shown above.

2. The running and cross slope within the level maneuvering clearance area shall be 1.5% and designed so water does not accumulate within the entire surface.

3. If the gate is not self-closing, provide acceptable gate hardware on both sides.

4. Provide 3/8" diameter tension rod and tightening for gates that are over 3 feet in width.

5. If provided, tie fabric top and frame with 11 gauge wire.

6. Latching and locking gates that are hand operated shall be operable with a single effort not to exceed 5-pound pressure.

7. The symbol contrast on sign shall be light on dark or dark on light.

8. Mounting height- the sign shall be installed on the fence/wall adjacent to the latch outside of the door. It shall be mounted to the centerline of the Acceptable Gate Hardware.

Mounting location shall be determined so that a person may approach within 3" of signage without encountering protruding objects or standing within the swing of a door.

9. Landing & approach space must comply with CBC Title 24 and ADA/ADAAG accessibility regulations.

LEGEND ON PLANS

SHEET 2 OF 2
**NOTES:**

1. Any part of an accessible route with a running slope greater than 5.0% shall be considered a pedestrian ramp and must comply with the pedestrian ramp standards.
2. The least possible slope shall be used for a pedestrian ramp without exceeding the maximum running slope of 6.67% (1:15) gradient.
3. If site conditions restrict the use of 6.67% (1:15) gradient or less, then the running slope of the pedestrian ramp(s) should not exceed 8.33% (1:12) gradient.
4. The cross slope of the ramp shall not exceed 1.5%.
5. Top, intermediated and bottom landings shall have a slope of 1.5% in both directions.
6. The minimum width of a ramp shall be 48".
7. The maximum rise for the ramp run shall be 30".
8. The landing(s) shall be at least as wide as the pedestrian ramp run leading to it.
9. The minimum size for a landing is 60" x 60" clear. At intermediate landings where the ramp changes direction of 30 degrees or more, the landing dimension must be a minimum of 72" in length to accommodate the handrail extensions, and incorporate a 60" x 60" turning circle within the landing.
10. If a doorway is located at a landing, then the area in front of the doorway shall comply with the ADAAG and CBC Title 24 regulations on encroachment of doors onto pedestrian ramp landings.
11. All travel surfaces shall have a minimum medium broom finish.
12. Warning Curb Edge Protection: If a drop-off of more than 4" exists between the ramp and landing surface and the adjacent grade, a 2" minimum high guide curb on each side, or a wheel guide rail centered 3" plus or minus 1" on each side of the ramp shall be provided.
13. Ramps and landings shall be designed so water does not accumulate on the walking surfaces.
14. Ramp Width shall be 60" minimum when serving an occupant load of 300 or more.
NOTES:
1. Handrails are required on both sides of a pedestrian ramp.
2. In addition to handrails, ramps and landings open on one or both sides whose surface is more than 30" above the adjacent ground surface shall be provided with guardrails that are at least 42" high. See M-24 and SDM-100 for guardrail details.
3. The inside handrail on switchbacks or dogleg ramps shall be continuous throughout the ramp and landing(s) run.
4. Where the handrails are not continuous, they shall extend at least 12" above the top and bottom of each ramp segment and shall be parallel with the floor or ground surface.
5. The clear space between the handrail and the adjacent wall shall be 1-1/2". See Section A, SDM-115, sheet 2 of 2.
6. The top of the handrail gripping surfaces shall be mounted between 34" and 38" above ramp and landing surfaces.
7. The gripping portion of the handrail shall be 1-1/4" to 1-1/2" in diameter or cross-sectional equivalent. Equivalent gripping design must be submitted to the designated Resident Engineer for review and approval prior to fabrication and installation.
8. The handrail gripping surfaces shall have a smooth and continuous surface, no sharp edges or corners, and edges have a minimum radius of 1/8". Weld and grind smooth all connections.
9. The ends of the handrails shall be either rounded or returned smoothly to the floor, wall or post. See ELEVATION.
10. Where the extension of the handrail in the direction of the ramp run would create a hazard such as an encroachment onto a pedestrian way, the extension of the handrail may be turned 90 degrees to the run of the ramp, or the termination of the extension shall be made either rounded or returned smoothly to the floor, wall or post.
11. Handrails and Guardrails Materials and Finishes:
   a. Pipe railings shall be stainless steel or hot dipped galvanized after fabrication.
   b. Pipe railings shall be seamless steel, ASTM A53 Grade B.
   c. Provide 1/4" expansion joints at 16" on center.
   d. Provide slip joints and vertical rail spacing per welding details on M-24.
NOTES:

1. Accessible parking spaces serving a particular building shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance. In parking facilities or parking lots that do not serve a particular building or facility, the accessible parking space shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility or parking lot.

2. Min 5'-0" for regular-accessible parking stalls, one in every eight accessible parking stalls, but not less than one, shall be served by a van-accessible aisle of 8'-0" minimum width and shall be designated and signed as "van accessible." For signage, see M-28A and M-28B.

3. In each off-street parking stall, a curb or bumper shall be provided and located to prevent encroachment of vehicles over the required width of walkways. Parking stalls shall be located that persons with disabilities are not compelled to wheel or walk behind parked cars other than their own.

4. Surface slopes of all accessible parking stalls and aisles shall be 1.5% in any direction. Assure that proper drainage is provided. EXCEPTION: Surface slopes of parking stalls and aisles shall be the minimum feasible without exceeding 2.0% in any direction. If existing slopes exceed 2.0%, then the accessible parking space shall be located on an area approved by the City Engineer.

5. Table A in SDM-117 Sheet 1 of 2 shall be used to determine the required number of accessible parking stalls in any parking lot or garage.

6. All curb ramps serving accessible parking stalls and aisles shall comply with the appropriate curb ramp standard with the required detectable/tactile warning tile.

7. Striping for the access aisle shall be laid at 45 degrees and shall be of a reflective blue color to match color no. 15090 in the Federal Standard 595a as specified in Section 522(b)2.

8. The words "NO PARKING," shall be painted in reflective white letters no less than 12" high and located so that it is visible to traffic enforcement officials. See "NO PARKING" detail in SDM-117 Sheet 1 of 2.

9. Where a single (non-van) accessible parking space is provided, the loading and unloading access aisle shall be on the passenger side of the vehicle as the vehicle is going forward into the parking space.

10. Where a van accessible parking space is provided, the loading and unloading access aisle shall only be on the passenger side of the vehicle as the vehicle is going forward into the parking space.

11. There shall be no obstructions on the sidewalk adjacent to and for the full length of the parking space, except for the ISA parking sign.

12. Provide for adequate drainage so water does not accumulate within the accessible parking stalls & isles.

13. If a walk crosses or adjoins a vehicular way (i.e. parking lots, loading and unloading zones), and the walking surfaces are not separated by curbs, railing, or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be identified by continuous detectable/tactile warning tiles. The depth of which shall be 36" and placed at boundary to vehicular way. Refer to SDG-130.

DIAGONAL DOUBLE PARKING STALLS

CITY OF SAN DIEGO - STANDARD DRAWING

ACCESSIBLE PARKING

CITY OF SAN DIEGO
STANDARDS COMMITTEE

SDM-117
NOTES
1. Frame and cover shall be cast iron. Cast iron shall conform to ASTM 48, Class 35B.
2. Weights: Frame 75.3kg (166) – 87.6kg (193)lbs. Cover 67.7kg (147) – 77.6kg (171)lbs.
3. Machine all mating surfaces and seats of frame and cover to prevent rocking.
4. Imported frames and covers shall have the country of origin marked in compliance with federal regulations.

MANHOLE COVER FRAME

MANHOLE COVER

FOR MARK

Sewer Projects    Sewer
Storm Drain Projects Storm Drain
Water Projects    Water
NOTES
1. Frame and cover shall be cast iron. Cast iron shall
   conform to ASTM 48, Class 30.
2. Frame and cover for use in non-traffic area only.
   Cover 43kg (95) – 50kg (110) lbs.
4. Imported frames and covers shall have the country of
   origin marked in compliance with federal regulations.

Sewer Projects     Sewer
Storm Drain Projects Storm Drain
Water Projects      Water
HALF PLAN FRAME & COVER

NOTES
1. Frame and cover shall be cast iron. Cast iron shall conform to ASTM 48, Class 35B.
2. Weights: Frame 142.4kg (314) - 164.6kg (363) lbs.
   Outer Cover 129.3kg (285) - 149.7kg (330) lbs.
   Inner Cover 66.7kg (147) - 77.5kg (171) lbs.
3. Machine all matching surfaces and seats of frame and cover to prevent rocking.
4. Imported frames and covers shall have the country of origin marked in compliance with federal regulations.

HALF SECTION FRAME & COVER

SAN DIEGO REGIONAL STANDARD DRAWING

914mm (36") MANHOLE FRAME AND TWO CONCENTRIC COVERS HEAVY DUTY

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

DRAWING NUMBER M-3
NOTES:
1. 16mm (0.625") X 20 UNC THREAD, 316 STAINLESS STEEL SOCKET HEAD CAP SCREW AND 38mm (1.50") O.D. X 17mm (0.667") I.O. x 0.078 THICK 316 STAINLESS STEEL WASHER.
2. 6mm (0.25") NEOprene O-RING GASKET SHALL BE GLUED INTO MACHINED GROOVE. GLUE SHALL MEET THE REQUIREMENTS OF MIL-M-81288 (AMEND. 1)
3. BOLTDOWN PATTERNS:
   • M-1 DETAIL (510mm (24") COVER & FRAME): INSTALL TWO (2) BOLTS AT 180 DEGREES.
   • M-3A DETAIL (CONCENTRIC COVERS): BETWEEN INNER AND OUTER COVERS INSTALL TWO (2) BOLTS AT 180 DEGREES.
   • M-3B DETAIL (OUTER COVER & FRAME): BETWEEN OUTER COVER & FRAME INSTALL FOUR (4) BOLTS AT 90 DEGREES.
HALF ELEVATION DOUBLE SWING GATE

NOTES
1. All footings shall be 309kg/M^3 - C-22-Mpa (520-C-2500) concrete.
2. The following items shall be furnished and installed only when shown on the plans and/or called for in the special provisions: a. Barb wire b. Extension post
3. Chain link fence shall conform to Section 206-6 of the Standard Specification for Public Works Construction unless specifically noted on this drawing.

EXTENSION POST AND BARBED WIRE

WALK GATE

SAN DIEGO REGIONAL STANDARD DRAWING

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chairperson R.C.E. 19246 Date

DRAWING NUMBER M-5

USE SDM-114
NOTES
1. All footings shall be 309kg/M³-C-22-Mpa (520-C-2500) concrete.
2. The following items shall be furnished and installed only when shown on the plans and/or called for in the special provisions.
   a. Barbed Wire
   b. Extension Arm
   c. Top Horizontal Rail
3. Chain link fence shall conform to Section 206-6 of the Standard Specifications for Public Works Construction unless specifically noted on this drawing.

EXTENSION ARM AND BARBED WIRE

LEGEND ON PLANS
NOTES

1. Concrete encasement or sand cement slurry backfill shall have a minimum slump of 102mm (4'').

2. Sand cement slurry backfill shall be thoroughly consolidated to encase conduits. Tampers or vibrators shall be used.

3. Concrete shall be screeded off to match pavement grade and floated to assure proper edge match.

4. Existing pavement will not require saw cutting when using rockwheel for excavation except when the existing pavement is concrete and trench finish is concrete.

5. All cuts shall be parallel or perpendicular to street centerline, when practical.

6. Allow concrete backfill or concrete trench cover 7 calendar days minimum, but no longer than 30 calendar days to cure and dry before applying any road surface finishes.

7. In major or prime arterial streets, an approved set accelerating admixture, such as calcium chloride, may be used only with prior approval of the Agency's Engineer otherwise the contractor shall protect the trench with the approval of the agency's Engineer.

8. See drawing G-33 for narrow trench resurfacing.

Cement Slurry Backfill
112 kg/M³ - C-2 Mpa (190-E-400)
or
225 kg/M³ - C-5 Mpa (380-E-800)
See note 1. c.

NOTES

1. Cement Slurry Backfill:
   a. Cement slurry backfill shall have a maximum slump of 102 mm (4”).
   b. Cement slurry backfill shall be thoroughly consolidated to encase conduits.
   c. Cement slurry backfill shall be as follows:
      Alleys and local residential streets ...... Class 112 kg/M³ - C-2 Mpa (190-E-400)
      All other streets ................................ Class 225 kg/M³ - C-5 Mpa (380-E-800)

2. Existing A.C. pavement will not require sawcutting when using rockwheel for excavation.

3. All cuts shall be parallel or perpendicular to street centerline, when practical.

4. See drawing G-33 for narrow trench resurfacing.

5. See table on drawing M-15 for standard minimum conduit depths.
NOTES

1. Concrete encasement or backfill shall have a minimum slump of 102 mm (4").

2. Concrete encasement and/or sand cement slurry backfill shall be thoroughly consolidated to encase conduits. Tamper or vibrators shall be used.

3. Concrete shall be screeded off to match pavement grade and floated to assure proper edge match.

4. Existing pavement will not require saw cutting when using rockwheel for excavation except when the existing pavement is concrete and trench finish is concrete.

5. All cuts shall be parallel or perpendicular to street centerline, when practical.

6. Allow concrete backfill or concrete trench cover 7 calendar days minimum, but no longer than 30 calendar days to cure and dry before applying any road surface finishes.

7. In major or prime arterial streets, an approved set accelerating admixture, such as calcium chloride, may be used only with prior approval of the Agency’s Engineer otherwise the contractor shall protect the trench with the approval of the Agency’s Engineer.

8. This type of trench shall be permitted for supply cables of 750 volts or less. See California Public Utility Commission General Order No. 128, Rule 33.4 D.(1)(b) and where the conduit can not be placed at the proper recommended depth.

9. See drawing G-33 for narrow trench resurfacing.

10. This detail shall be used only when there is underground conflicts. See table on drawing M-15 for standard minimum conduit depths.
NOTES

1. Posts to be structural grade redwood or pressure treated (with wood preservative) Douglas Fir, surfaced four sides; cross pieces to be 51mm (2") x 203mm (8") select grade Douglas Fir, surfaced four sides.

2. All exposed portions of barricades shall be painted with two coats of white exterior enamel over prime coat.

3. Connections shall be made with 10mm (3/8") x 152mm (6") galvanized lag screws with one (1) washer each.

to be 10mm (3/8") x 38mm (1 1/2") galvanized lag screws.

4. Reflector signs = California Type N. Size 457mm (18") x 457mm (18") - Yellow with nine (9) .83mm (3 1/4") reflectors (center mount).

a. Reflectors shall be red for use on dead end streets, in all other cases they shall be yellow.

b. Reflector material shall be plastic or other approved reflectorized material.

5. 1.8m (6’) long hat section metal post per Caltrans Std. Plan A74-A optional for guard post.

LEGEND ON PLANS

- Q Guard Post
- □=□ Barricade

SAN DIEGO REGIONAL STANDARD DRAWING

GUARD POST AND BARRICADE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chirperson R.C.E. 19246 Date
NOTES

1. Cover and frame to be cast integrally with pipe box.
2. Monument base may be cast in place or precast.
3. Form and taper exposed upper 152mm (6") of cast-in-place base to a top diameter of 127mm (5"). (Precast base shall be sand backfilled).
4. Monument marker shall be a domed brass, 76mm (3") in diameter.
5. Monument Location:
   a) Set on all centerline intersections unless actual location is modified by the Agency and shown in modified location on map. When centerline intersection is impractical, offset 1.5m (5') on centerline of major street, (see detail at right). If neither centerline can be occupied, two monuments will be set in line around the front on the perimeter of a 3m (10') diameter circle, whose center is the point.
   b) Set on centerline at intervals not exceeding 305m (1000') on straight runs.
   c) Set on centerline at points of curvature.
   d) Set on center at center points of cul-de-sacs.
   e) Set on centerline when center point of cul-de-sac is offset from centerline.
   f) These standards may be modified at the discretion of the Agency in cases where strict compliance therewith results in more monuments than it considers necessary. The following technique for reducing the number of monuments will be routine.
   g) Substitution of one monument on the "Point of Intersection" for monuments at the "Beginning of Curve" and the "Ending of Curve" when the "Point of Intersection" falls within the pavement area.
   h) Deletion of any monument otherwise required by these standards when its position can be determined by turning one angle from a point on a straight line between two other monuments, providing such point is not more than 91.4m (300') from the point on which the deleted monument would have been placed.
NOTES
1. Material—Brass A.S.T.M. B-16. All machine tolerances ±.4mm (1/64") machine finish.
2. May be installed in fresh concrete at time of installation of concrete structure.
3. Location—in most stable, permanent location in vicinity, such as in base for street light standard or traffic signal (behind sidewalk), in curb (not near joint, on curve or near trees), on top of drainage headwall, in foundation for building or retaining wall or in concrete pads for transformers, pump stations etc.
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**LEGEND**

- MEAN HIGH WATER = Mean of all high water in San Diego Bay.
- MEAN HIGHER WATER = Mean of all higher water in San Diego Bay. Bay charts and topography up to the mean high tide based on zero at the mean lower low water.

**SOURCE**

Data based on U.S.C. & G. "Sea level Datum of 1923".
FOUND MONUMENTS

Found monuments must denote the character of the monument, how it is identified and the record, or no record as applicable.

SET MONUMENTS – Criteria for Locating and Character

On subdivision boundaries, permanent monuments are required; and must be shown on the map at intervals as specified by the local agency. The location of such points that are unacceptable or will be destroyed by construction may be established by ties to permanent reference monuments shown on the final map.

A permanent monument shall be no less substantial than the following:

a. An iron pipe of minimum two inch diameter not less than 610mm (2") in length placed upright in the ground so that the top of said pipe is flush with the surface. Said pipe shall be filled with a metal or cement plug at least three inches in depth and centered with a metal tack and disc; or

b. A metal plug with tack and disc set flush with the surface in portland cement concrete sidewalk, curb or pavement; or other monument satisfactory to the City Engineer or County Surveyor. The metal plug shall be anchored 25mm (1") deep in sidewalk.

Lot corners and points of curves along street and alley right of way lines where portland cement concrete sidewalks, curbs or pavement exist, or will be constructed as part of the subdivision requirements, shall be identified with tack and disc set flush with the surface along an extension of the lot line at an approved offset, to be measured radially or at right angles to the right of way line in said sidewalk, curb pavement. In case the sideline of the lot is not radial or at right angles to the right of way line a disc shall be set along an extension of the sideline at an offset to be measured radially or at right angles to the right of way line. Where no such concrete work exists, and none will be required to be constructed, all lot corners, angle points and points of curve shall be marked with a monument no less substantial than a one-half inch steel rod or pipe, 457mm (18") long, set flush with the surface.

LEGEND

- Fd 51mm (2") Iron Pipe Marked RCE, XXXX or per Map XXX unless otherwise noted
- Fd Street Survey Monument Stamped RCE XXXX or LS XXXX
- Set 51mm (2") x 610mm (24") Iron Pipe Marked RCE XXXX or LS XXXX
- Set Lead and Disc Stamped RCE XXXX or LS XXXX
- Set 13mm (½") x 457mm (18") Iron Pipe Marked RCE XXXX or LS XXXX
- Set Street Survey Monument Stamped RCE XXXX or LS XXXX per Standard Drawing M-10

The addition of other symbols is permissible where such will result in a clearer map.

The following notes should be used in the legend where applicable.

Unless otherwise shown on this map:

1. All lot corners except as described below will be monumented by a 13mm (½") by 457mm (18") iron pin stamped (RCE or LS number).

2. Lot corners along the sideline of dedicated street right of way will be monumented by a disc stamped (RCE or LS number), set along an extension of the lot line at an offset of _ in the (curb, sidewalk). The offset shall be measured radially, or at right angles, to the right of way line. (See example below.)

3. All points of curve of the sidelines of dedicated streets will be monumented by a disc stamped (RCE or LS number), set at an offset of _ in the (curb, sidewalk). The offset shall be measured radially.
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<th>Unit</th>
<th>Metric Equivalent</th>
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<td>0.4536 kg.</td>
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<td>0.0011 ton</td>
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**MULTIPLE PREFIX**
- 1000000 mega
- 1000 kilo
- 100 hecto
- 10 deka

**METRIC PREFIX**
- 1/10 deci
- 1/100 centi
- 1/1000 milli
- 1/1000000 micro

**TEMPERATURE**
- Degrees Fahrenheit = 9/5 (Degrees Celsius) + 32
- Degrees Centigrade = 5/9 (Degrees Fahrenheit - 32)
NOTES
1. All dimensions are typical unless otherwise noted.
2. Generally utilities are to be installed under the applicable specifications for the particular utility and the specifications of the owner Agency.
3. The location of utilities as shown by the Standard Drawing shall in no way violate existing codes or regulations applicable to individual utilities.
4. Installation of sewer and/or water utilities are not permitted in the joint trenches shown above.
5. Minimum depth of gas pipe may, subject to gas company inspectors approval, be reduced to 610mm (24") where necessary to clear structure crossings.
6. Depth and width of trench varies.
7. CATV main or trunk line conduit required along all streets, except cul-de-sac streets less than 305m (1,000') in length which may be served by feeder lines only.
8. CATV 38mm (1-1/2") feeder conduit shall run across streets with each power service line and capped at edge of sidewalk.
9. All CATV terminals and conduits shall be terminated at generally accepted locations and marked. A map shall be filed with the appropriate agency showing the locations of the CATV system.
10. In no case shall CATV conduits be placed within 305mm (12") of gas lines, also conduits are not to be placed directly over gas lines.
11. CATV conduit may be placed with the TELCO conduit provided the TELCO minimum depth is held.
6mm (1/4") Steel Plate welded to top
(burrs removed).

13mm (1/2") Expansion Joint

Back of curb or joint in walk

Concrete to be same as walk

102mm (4") Diameter Steel Pipe

127mm (5") Diameter Steel Pipe Sleeve

254mm (10")
203mm (8")
457mm (18") Diameter

Four Links
Three Links

Make bowl shaped recess in concrete to accommodate three links of chain

127mm (5") Diameter Steel Pipe Sleeve

305mm (12") from bottom of post

NOTES
1. Chain to be 6mm (1/4") proof coil chain galvanized steel. Weld four links to post and three links to pipe sleeve.
2. All metal to be hot-dip galvanized after fabrication.

LEGEND ON PLANS
NOTE:
Chain link fabric shall be erected on the interior side of the courts.

CAUTION:
This Standard Drawing is not to be used if any wind screen is to be applied to the fence.
Drinking Fountain – Haws model 3376 or approved equal.
2. 10mm (3/8") dia. Expansion anchors with flat (recessed heads) screws 4 places.
3. 32mm (1 ¼") P.V.C. pipe with sweep 90° ell connection to fountain drain.
4. 241mm (9 ½") x 406mm (16") concrete yard box with hinged locking top (Brooks No. 3HL or equal) set on red brick foundation.
5. 102mm (4") x 12.2m (40') perforated plastic underdrain pipe, encased in 19mm (3/4") crushed rock.
6. 25mm (1") gate valve with red brass cross handle and union. Install as per Std. Dwg. I-12
7. 51mm (2") dia. galv. pipe sleeve with red brass lock cap per Std. Dwg. I-12
8. Rigid copper pipe from gate valve to fountain assembly connection.
9. Concrete pavement.

NOTES
1. Install fountain so that right hand side faces prevailing wind.
2. Hand form a concrete bowl at bottom of yard box to facilitate sand clean out.
3. Perforated drain pipe and trench are to drain away from fountain at 1% min. slope. Keep drain in lawn areas.
4. Item no. 6 is a 25mm (1") gate valve. Use red brass bushing reducers to adapt to feed pipe.
STREET LOCATIONS

MARKERS - Shall be blue 2-way stimsonite lifeite BBAB or equal.

ADHESIVE - An ample amount of two (A&B) epoxy or equal.

SURFACES - Clean and dry prior to installation per manufacturer's recommendations. Install markers with reflective surfaces facing oncoming vehicles and offset 51mm (2") from lane lines toward fire hydrant.

NOTES
1. Fire Department will provide location(s) for all markers in PRD's, Commercial Lots and other areas outside of Public Right of Way.
2. Markers must be installed at the new and relocated hydrants and within all resurfacing projects.
3. For streets without lane lines or streets with raised pavement markers and no painted lane lines, install markers 152mm (6") from centerline or existing markers.

LEGAL ON PLANS

Marker ■

Fire Hydrant ▽

SAN DIEGO REGIONAL STANDARD DRAWING

FIRE HYDRANT MARKERS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chairperson R.C.E. 19246 Date

DRAWING NUMBER M-19
Horizontal brace with truss rod may be used as an alternate to a diagonal brace.

Line posts at 305m (1000') max. intervals braced and trussed in both directions.

Horizontal brace with 9.5mm (3/8") steel truss rods.

Gate post

Length as specified

2.44m (8') Max

Gate panel

Vertical stay

Diagonal brace or horizontal brace with truss rods

PORTLAND CEMENT CONCRETE

3.05m (10')

GATE ASSEMBLY
NOTES

1. Sidewalk shall have a minimum of 1.2m (4') clear area (path, not including curb) passing pedestals, pullboxes and other structures.

NOTES
1. At catch basin locations, joint trench shall be 1.2m (4’), minimum from back of curb to inside wall of trench. See Standard Drawing M-15 for configuration of utilities in joint trench.
2. Sewer and reclaimed water mains shall be designed to cross under potable water mains. The vertical separation between potable water and reclaimed water shall be a minimum of 305mm (12”).
3. Sewer and reclaimed water laterals shall cross under potable water main, with a minimum vertical separation of 305mm (12”).
4. Sewer and reclaimed water mains shall maintain a 3.05m (10’), minimum horizontal separation, O.D to O.D., with any potable water or sewer/reclaimed main. This separation may be reduced utilizing special construction, with special approval from the Agency and the County Health Dept. For sewer or reclaimed water mains less than 610mm (24”) in diameter, only Agency approval is required.
NOTES
1. At catch basin locations, joint trench shall be 1.2m (4’). minimum from back of curb to inside wall of trench. See Standard Drawing M-15 for configuration of utilities in joint trench.
2. Sewer and reclaimed water mains shall be designed to cross under potable water mains. The vertical separation between potable water and reclaimed water shall be a minimum of 305mm (12”).
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4. Sewer and reclaimed water mains shall maintain a 3.05m (10’). minimum horizontal separation, O.D to O.D., with any potable water or sewer/reclaimed main. This separation may be reduced utilizing special construction, with special approval from the Agency and the County Health Dept. For sewer or reclaimed water mains less than 610mm (24”) in diameter, only Agency approval is required.
PLAN AT END OF HANDRAIL
76mm (3")

305mm (12")
or Tread Width

305mm (12")
Extension

57mm (2-1/4")R And Flush
With The All

38mm (1-1/2") Std. Pipe
178mm (7") Max
86.4mm
63.5mm-96.5mm
2.54mm
2.83mm
3.35mm
5mm

Surface Of Ramp or
Step Nosing Limit

10mm x 127mm Dia.R
(3/8" x 5") Dia.

10mm x 38mm R
(5/8" x 1-1/2")

38 mm (1-1/2") Min

19mm Ø (3/4")
C Bolts and
anchors approved
by the Engineer

HANDRAIL BRACKET

38 mm (1 1/2")
Std. Pipe

13mm (1/2")
Sliding Fit

19mm Ø (3/4")

13mm (1/2")
Exp. Jt.

38mm (1-1/2")

6mm (1/4")

89mm (3-1/2")

76mm (3")
Hole

NOTES
1. 6mm (1/4") Expansion joints @ 4.9m (16')± centers.
2. Weld and grind smooth all connections.
3. All railing to be hot dip galvanized after fabrication.
4. Pipe shall seamless steel ASTM A53 Grade B.
5. Maximum = Δ102mm (4"). Guardrails and handrails for stairs and ramps more than 762mm (30") above
   have intermediate rails equally spaced such that a sphere 102mm (4") in diameter cannot pass through.
6. Handrail extension for stairs, at all bottom risers, shall be 305mm (12") plus one tread width.

PIV MOUNTING DETAIL

Post shall be grouted in
place using non-shrink grout.

PIV GUARDRAIL—POST TYPE

210mm (8-1/4")R

38mm Std. Pipe
(1-1/2") Std. Pipe

1.1m (3-1/6)
X IS THE MINIMUM HANDRAIL EXTENSION OF 12 INCHES PLUS THE WIDTH OF ONE TREAD AT EACH BOTTOM RISER.

NOTE: INNER HANDRAIL AT LANDINGS OF STAIRS THAT DOUBLE BACK OR IMMEDIATELY TURN SHALL BE CONTINUOUS, AND SHALL NOT EXTEND ONTO LANDING OR PATH OF TRAVEL.

STAIRCANDRAILS

NOTE:

1. Post type guardrails, and handrails for stairs or landings 762mm(30") or less above grade or floor below shall have only one intermediate rail centered between the step nosing limit (or if specified the top of curb) and top of railing.
2. Post type guardrails, and handrails for stairs or landings more than 762mm(30") above grade or floor below shall have intermediate rails equally spaced such that a sphere 102mm(4") in diameter cannot pass through.
3. Where handrail extensions interfere with transverse walkways the horizontal portions shall not encroach but be turned away from stairs and parallel to walkway.
4. The top of guardrails for stairways, exclusive of their landings, may have a height as specified for handrails.
Distance Shown On Plans
The size and number of treads and risers as shown on plans.

Handrail per Std. Dwg. M-24

Riser = 102mm(4") Min. 178mm(7") Max.

Tread = 279mm (11") Min. 13mm R. (1/2") Max. 255mm (10")

309kg/M^3 - C-17MPa
(520-C-2500) Concrete

#13(#4) @ 305mm(12") O.C.

#13(#4) @ 610mm(24") O.C.

NOTES
1. Broom finish on treads, trowel finish on all other exposed surfaces.
2. 6mm(1/4") per 305mm(1") slope on treads for drainage.
3. Locate handrails on both sides.
4. Handrail may project into the required width a distance of 89mm(3-1/2") from each side of stairway.

Typical three inch border of highly contrasting color placed parallel to and not more than 25mm(1") from nose. A painted strip will be acceptable.

13mm(1/2") R
Provide curb on each side when specified

SECTION A-A

#13(#4) @ 305mm(12") O.C.

#13(#4) @ 610mm(24") O.C.

San Diego Regional Standard Drawing

Concrete Steps

Recommended by the San Diego Regional Standards Committee

Original 2/95
Add Metric 03/03
Reviewed 04/06

Date:

M-26
NOTES:

1. Provide for adequate drainage.

2. For appropriate ramp alternate to conform to topographical conditions, see standard drawings G-27 through G-30.

3. Blue color should match color No. 15090 in the Federal Standard 595a as specified in Section 522(b)2.

4. If only one accessible parking stall is going to be provided, the access aisle shall be 2.4m (8') (van accessible) and located on the passenger side.

5. Sidewalk cross slope shall not exceed 2.0%.

6. "NO PARKING" 12" high stencil marking, reflective white over blue stripes.
NOTES:

1. Provide for adequate drainage.

2. For appropriate ramp alternate to conform to topographical conditions, see standard drawings G-27 through G-30.

3. Blue color should match color No. 15090 in the Federal Standard 595a as specified in Section 522(b)2.

4. If only one accessible parking stall is going to be provided, the access aisle shall be 2.4m (8') (van accessible) and located on the passenger side.

5. Sidewalk cross slope shall not exceed 2.0%.

6. "NO PARKING" 12" high stencil marking, reflective white over blue stripes.
NOTES:

1. Sign shall be constructed of a minimum 1.57mm (0.062") thick aluminum.
2. Lettering, symbol and border shall be reflectorized white, on a blue background.
3. Lettering shall be 25mm (1") and 51mm (2") high.
4. Where space is designed for van accessibility, a sign "VAN ACCESSIBLE" shall be installed.
5. Minimum van accessible vertical clearance is 2.5m (8'-2"").

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**SAN DIEGO REGIONAL STANDARD DRAWING**

**DISABLED PARKING SIGN**

**DRAWING NUMBER** M-28A
NOTES
1. Sign shall be constructed of aluminum, 1.57mm (0.062") minimum thickness.
2. Colors: Background—Reflectorized Blue
   Border and letters—Reflectorized White
   Blue color shall match color No. 15090 in the
   Federal Standard 595a as specified in Section 522(b)2.

Revised By Approved Date
ORIGINAL G. Parkinson 2/95
Add Metric T. Stanton 03/03
Reviewed T. Stanton 04/06

SAN DIEGO REGIONAL STANDARD DRAWING

VAN ACCESSIBLE SIGN
FOR DISABLED PARKING SPACE

DRAWING NUMBER M-28B
NOTES
1. Pavement symbol shall be painted white on a blue background.
2. Blue color shall match color No. 15090 in the Federal Standard 595a as specified in Section 522(b)2.
FOR GUARDRAIL STANDARDS USE:
Caltrans "Standard Plans for
Construction of Local
Streets and Roads"

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SAN DIEGO REGIONAL STANDARD DRAWING

GUARD RAIL REFERENCE NOTE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chairperson R.C.E. 19246 Date

DRAWING NUMBER M-30
NOTES

1. Structural steel tubing used for post & sleeves shall be galvanized 12 gauge cold rolled steel, of the nominal dimensions shown hereon and meet the requirements of ASTM A446 Grade A.

2. Galvanizing shall be per ASTM A525. Posts & sleeves shall have 11mm(7/16") dia. holes spaced 25mm(1") o.c. ±3mm(1/8") & shall have no more variation in straightness than 1.6mm(1/16") in 914mm(3’). Posts shall be square within ±.36mm(0.014"), have twist no greater than 0.062" in 3’ and have corner radii of 4mm(5/32") ±.4mm(1/64").

3. The signs shall be mounted on posts in accordance with Section 56, “Signs” of the State Standard Specifications. All fastening hardware is to be provided by the Contractor.

4. Maximum sign size 5.2 sq. ft.