

# MISCELLANEOUS

MISCELLANEOUS

M

SUPPLEMENT TO REGIONAL STANDARD DRAWING (M-SERIES)

DRAWING M-17

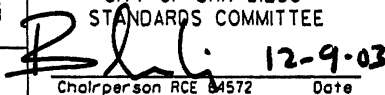
NOTES      ADD the following SPECIAL NOTE:

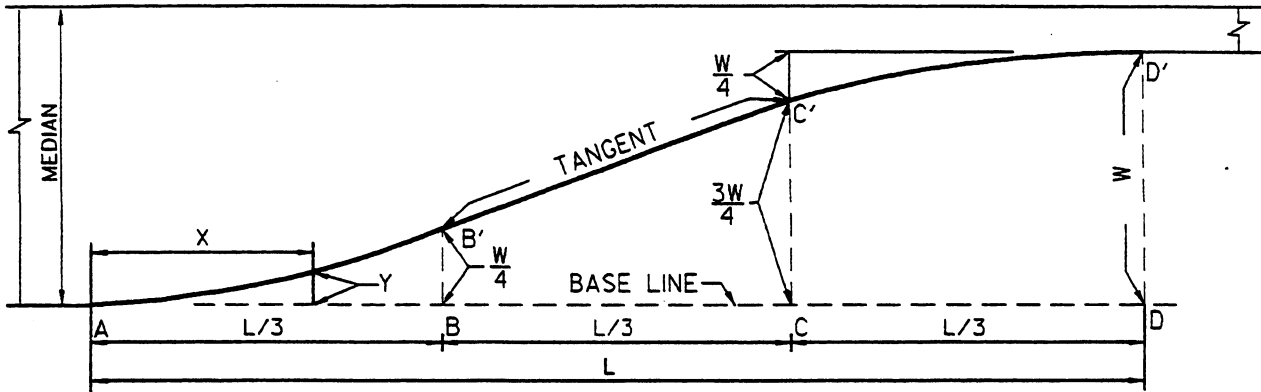
1. Chain link fabric shall have knuckled finish on top edge.

DRAWING M-24

NOTES      Amend Note 5: "  $\Delta < 4$ ". 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.

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL		M. V. Rollinger	5-20-92			
NOTES		G. Parkinson	2-7-95			
NOTES	SM	Oskoui	12-9-03	SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ( "M" SERIES )	 Chairperson RCE 84572      Date 12-9-03	
					DRAWING NUMBER	<b>SDM-100</b>



$$Y = 2.25W \left( \frac{X}{L} \right)^2$$

L=LENGTH OF TRANSITION  
W=MAXIMUM OFFSET DISTANCE  
X=DISTANCE ALONG BASELINE  
Y=OFFSET FROM BASELINE

L	DISTANCE X												
	60'	5'	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'
90'	7.5'	15'	22.5'	30'	37.5'	45'	52.5'	60'	67.5'	75'	82.5'	90'	
120'	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	
W	OFFSET Y												
	10'	0.16'	0.62'	1.41'	2.50'	3.75'	5.00'	6.25'	7.50'	8.59'	9.38'	9.84'	10.00'
	11'	0.17'	0.69'	1.55'	2.75'	4.13'	5.50'	6.88'	8.25'	9.45'	10.31'	10.83'	11.00'
	20'	0.31'	1.25'	2.81'	5.00'	7.50'	10.00'	12.50'	15.00'	17.19'	18.75'	19.69'	20.00'
	22'	0.34'	1.38'	3.09'	5.50'	8.25'	11.00'	13.75'	16.50'	18.91'	20.62'	21.66'	22.00'

**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 C'D' 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.

Revision	By	Approved	Date
ORIGINAL	JJD	G. PARKINSON	2-9-95

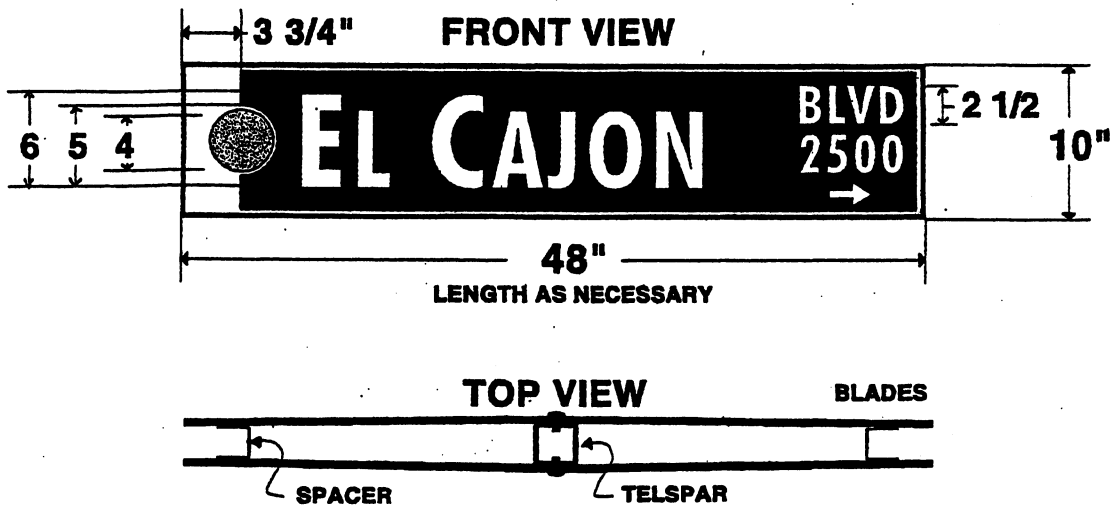
**CITY OF SAN DIEGO - STANDARD DRAWING**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*[Signature]*  
COORDINATOR R.C.E. 25902      2-9-95  
DATE

**LEFT TURN MEDIAN TRANSITION**

DRAWING NUMBER **SDM-101**



**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.

**SHEET 1 OF 4**

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWINGS	CITY OF SAN DIEGO STANDARDS COMMITTEE <i>Hon. R. H.</i> 8/17/00 COORDINATOR DATE C-35390
ORIGINAL		J.P. CASEY	11/8/88		
				STREET NAME SIGN	DRAWING NUMBER
					SDM-102

**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.

Sheet 2 of 4

REVISION	BY	APPROVED	DATE	<p align="center"><b>CITY OF SAN DIEGO - STANDARD DRAWINGS</b></p>	<p align="center">CITY OF SAN DIEGO STANDARDS COMMITTEE</p> <p align="right"><i>John R. ...</i> 8/17/00 COORDINATOR DATE</p> <p align="center">C-35390</p>
ORIGINAL		J.P.CASEY	11-8-88		<p align="center"><b>STREET NAME SIGN</b></p>

# 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.

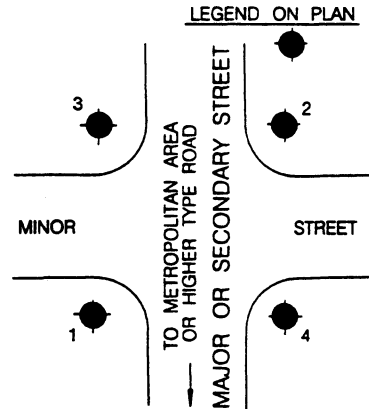
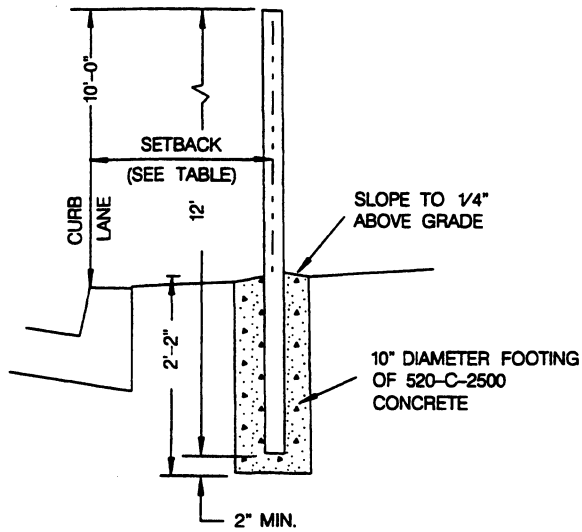
**SHT. 3 OF 4**

Revision	By	Approved	Date	<b>CITY OF SAN DIEGO - STANDARD DRAWING</b>	CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL		J.P. Casey	8-88		<i>J.P. Casey</i> 2-7-95
Rev. - 1	TLH		7/28/00	<b>STREET NAME SIGN</b>	COORDINATOR R.C.E. 25902 DATE
					DRAWING NUMBER <b>SDM-102</b>

CURB & SIDEWALK	SIDEWALK WIDTH	SETBACK
CONTIGUOUS	6' OR LESS	SIDEWALK WIDTH
CONTIGUOUS	MORE THAN 6'	2' - 6"
SEPARATE	_____	2' - 6"

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 INTERSECTION



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

Sheet 4 of 4

Revision	By	Approved	Date
ORIGINAL		J.P. Casey	11-8-88
Rev. - 1	TLH		7/28/00

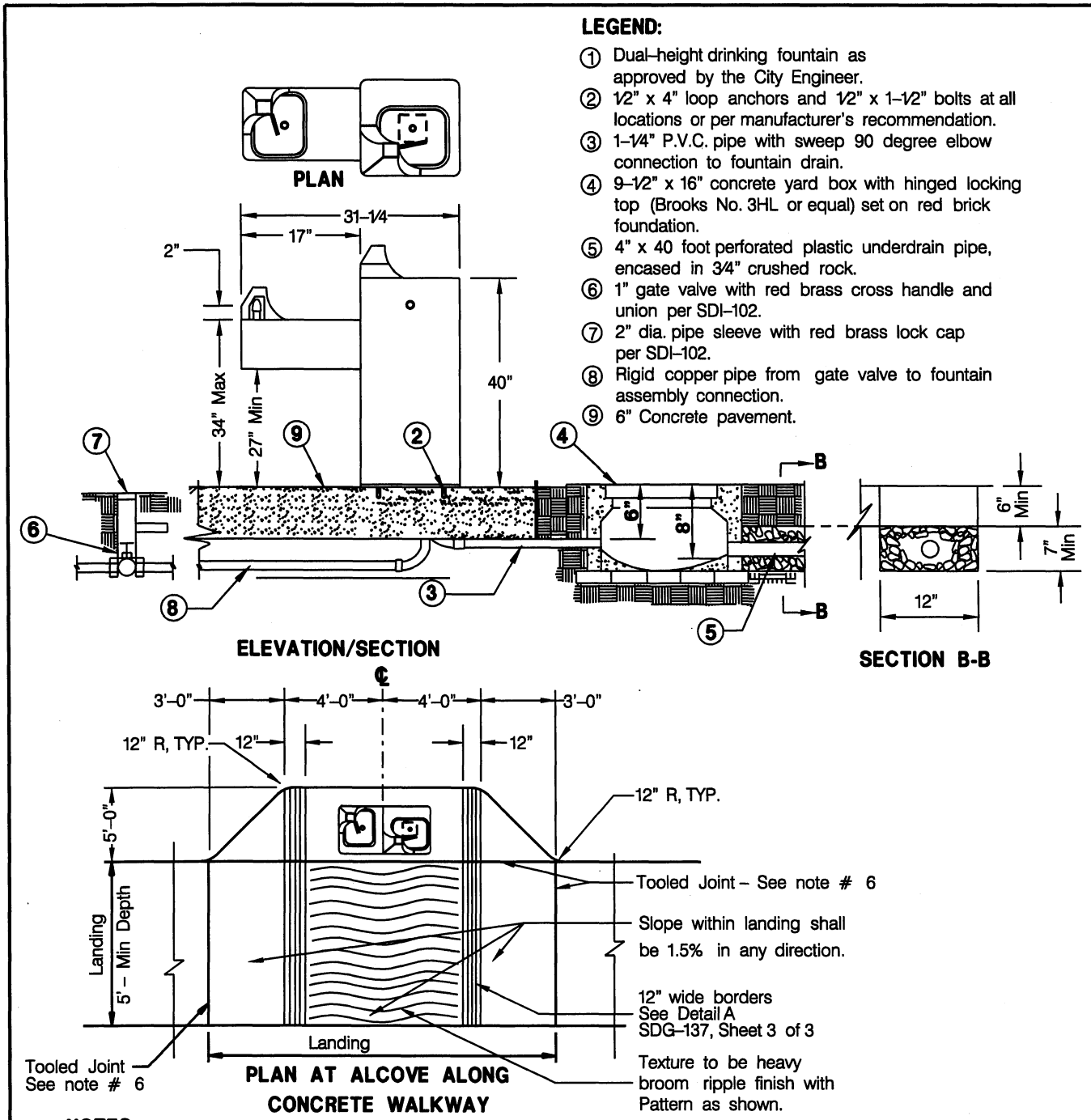
**CITY OF SAN DIEGO - STANDARD DRAWING**

**STREET NAME SIGN**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

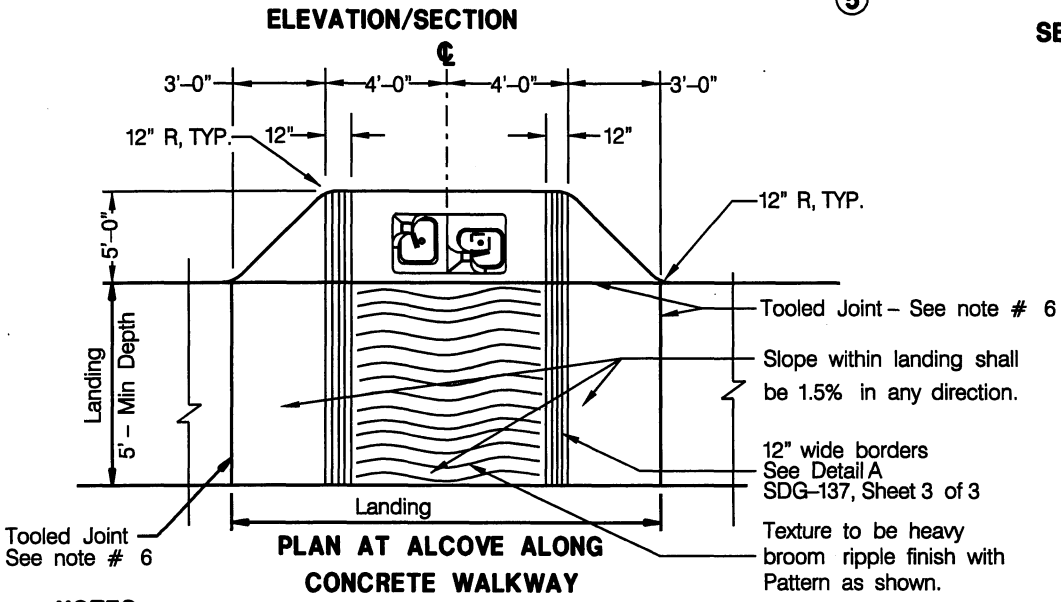
*Steve J. Paul* 2-7-95  
COORDINATOR R.C.E. 25902 DATE

DRAWING NUMBER **SDM-102**



**LEGEND:**

- ① Dual-height drinking fountain as approved by the City Engineer.
- ② 12" x 4" loop anchors and 1/2" x 1-1/2" bolts at all locations or per manufacturer's recommendation.
- ③ 1-1/4" P.V.C. pipe with sweep 90 degree elbow connection to fountain drain.
- ④ 9-1/2" x 16" concrete yard box with hinged locking top (Brooks No. 3HL or equal) set on red brick foundation.
- ⑤ 4" x 40 foot perforated plastic underdrain pipe, encased in 3/4" crushed rock.
- ⑥ 1" gate valve with red brass cross handle and union per SDI-102.
- ⑦ 2" dia. pipe sleeve with red brass lock cap per SDI-102.
- ⑧ Rigid copper pipe from gate valve to fountain assembly connection.
- ⑨ 6" Concrete pavement.



**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 an alcove or at areas outside the path-of-travel otherwise provide protective railing Per SDM-108.
- 6. Tooled 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.

**LEGEND ON PLANS**



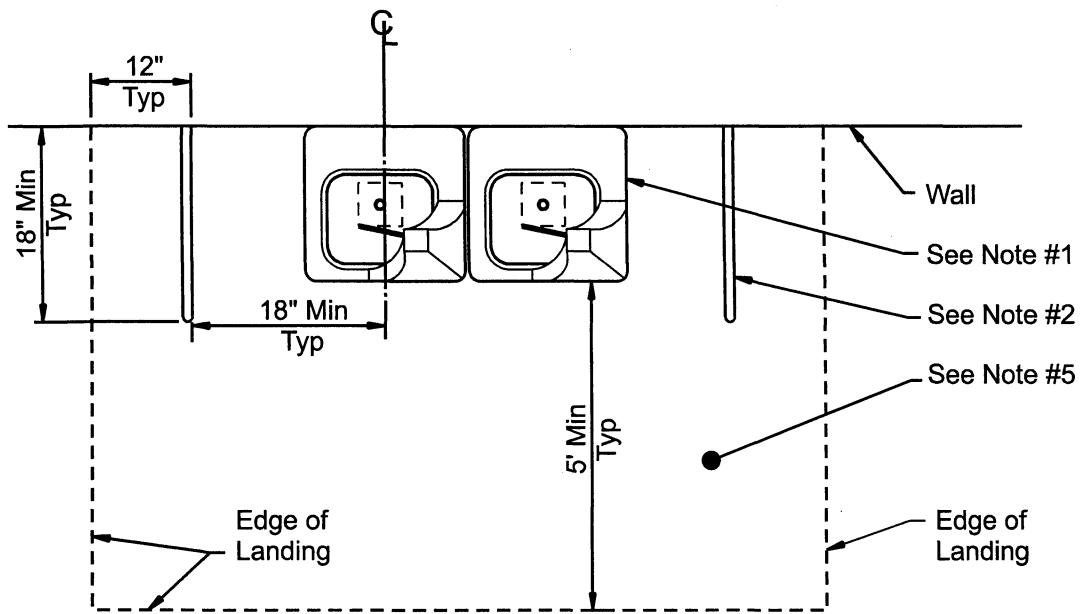
Revision	By	Approved	Date
Original	SM	A. Oskoui	12/03
Update	FC	A. Oskoui	12/06

**CITY OF SAN DIEGO - STANDARD DRAWING**

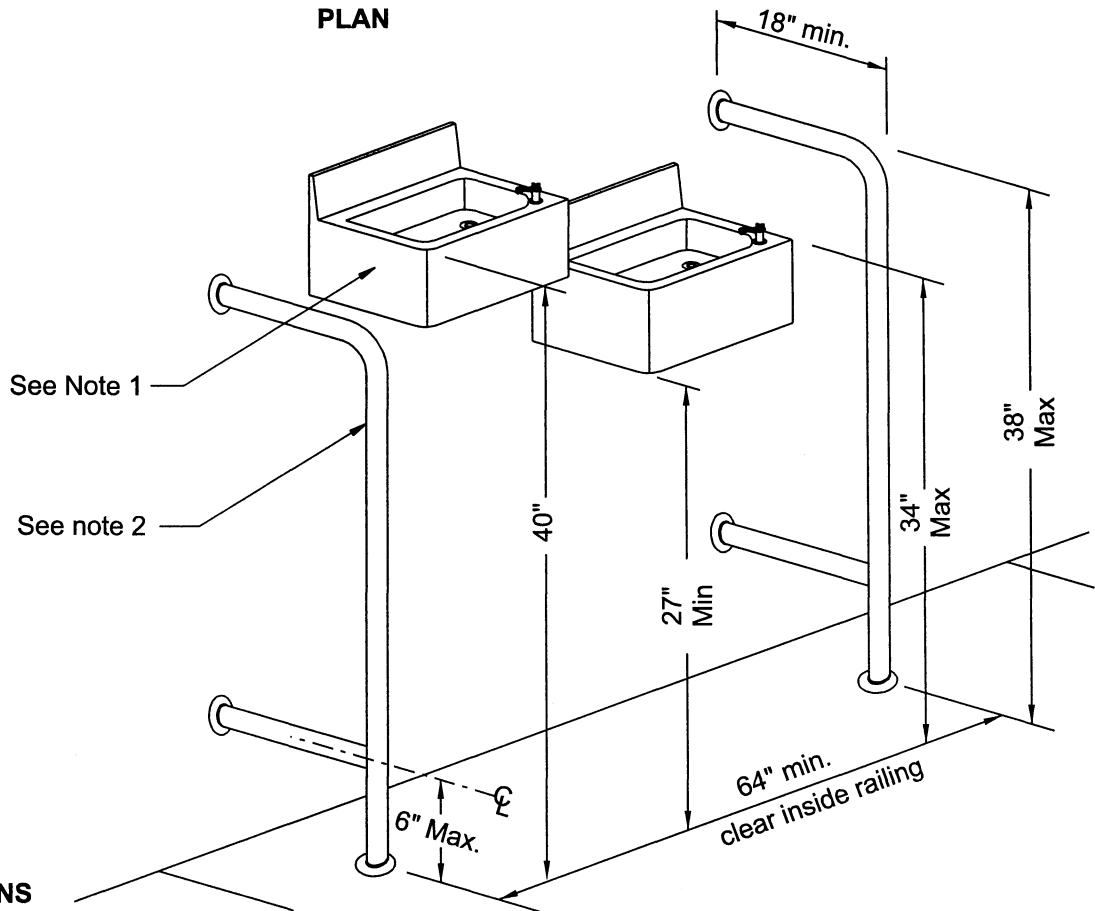
**DRINKING FOUNTAINS**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE  
*R. C. E.* 12/16/6  
COORDINATOR R.C.E 65271-Date  
**DRAWING NUMBER** **SDM-107**





PLAN



LEGEND ON PLANS



ISOMETRIC VIEW

Sheet 1 of 2

Revision	By	Approved	Date
Original	SS	A. Oskoui	12/03
Update	FC	A. Oskoui	12/06

**CITY OF SAN DIEGO - STANDARD DRAWING**

**DRINKING FOUNTAINS NON-ALCOVE**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*A. Oskoui* 12/16/06

COORDINATOR R.C.E 65271 - Date

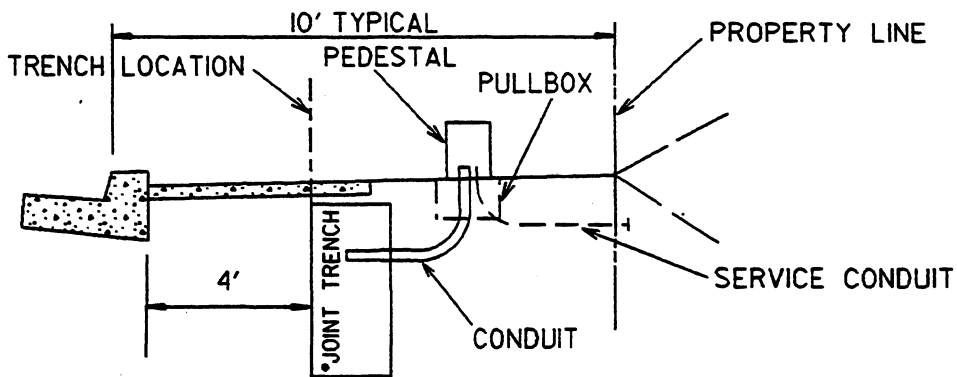
**DRAWING NUMBER SDM-108**

**NOTES:**

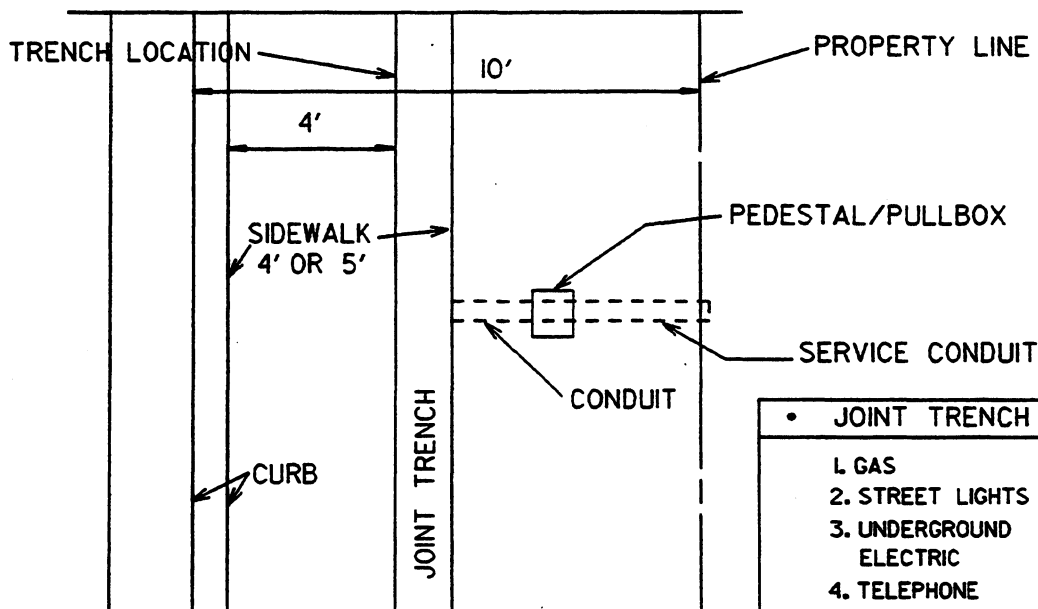
1. Dual height drinking fountains.
2. Unless located in an alcove, wing walls or protective railings are required on both sides of drinking fountains that project into the path of travel. Railings shall be 1-1/4" to 1-1/2" diameter pipe.
3. Handrails and Guardrails Material & Finish:
  - a. Pipe railings 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.

Sheet 2 of 2

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE
Original	FC	A. Oskoui	12/06		<i>Ad. H. H. H. 12/16/06</i>
				DRINKING FOUNTAINS NON-ALCOVE	COORDINATOR R.C.E 65271 - Date
					DRAWING NUMBER <b>SDM-108</b>



SECTION VIEW



- |    |                      |
|----|----------------------|
| •  | <b>JOINT TRENCH</b>  |
| 1. | GAS                  |
| 2. | STREET LIGHTS        |
| 3. | UNDERGROUND ELECTRIC |
| 4. | TELEPHONE            |
| 5. | CATV                 |

PLAN VIEW

NOTE: SIDEWALK SHALL HAVE A MINIMUM OF FOUR (4) FOOT CLEAR (PATH) PASSING PEDESTALS, PULLBOXES AND OTHER STRUCTURES.

Revision	By	Approved	Date
ORIGINAL		J.P. Casey	8-3-85

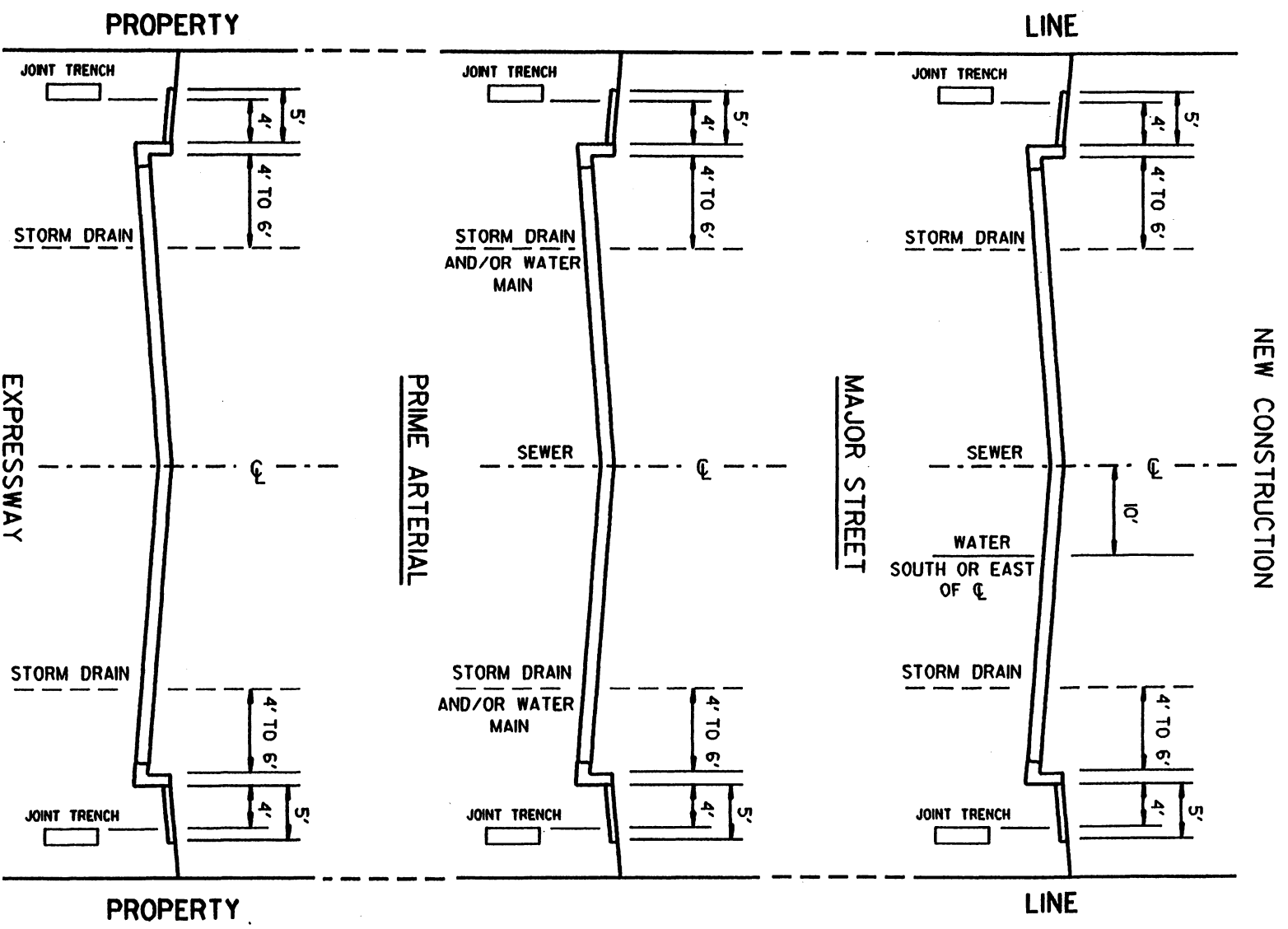
**CITY OF SAN DIEGO - STANDARD DRAWING**

**UNDERGROUND TYPICAL LOCATION  
NEW CONSTRUCTION**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*James L. Palmer* 2-7-95  
COORDINATOR R.C.E. 25902 DATE

DRAWING NUMBER **SDM-109**



NEW CONSTRUCTION

NOTE: SEE M-23 FOR LOCATION OF RECLAIMED WATER

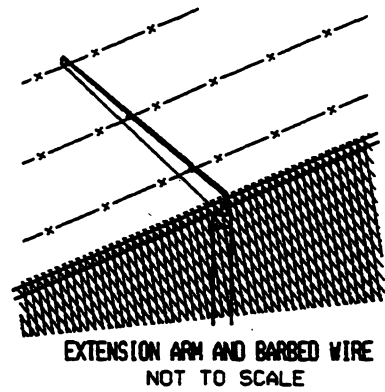
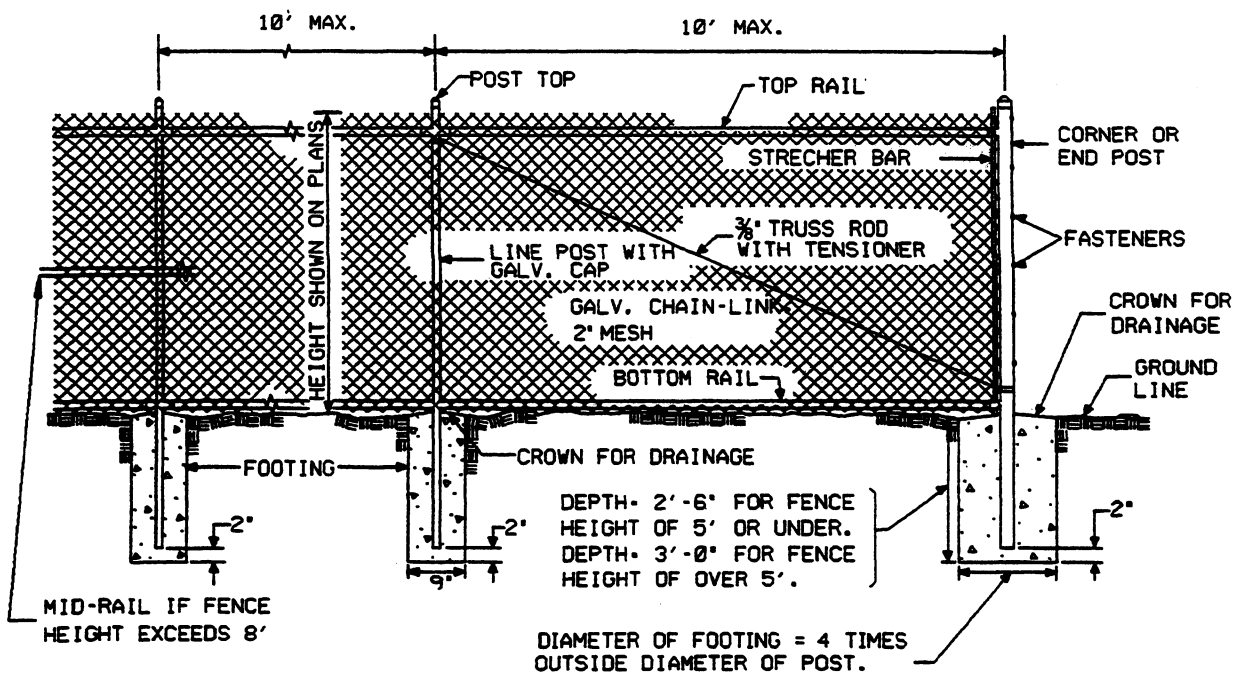
Revision	By	Approved	Date
ORIGINAL		J.P. Casey	5-8-95

CITY OF SAN DIEGO - STANDARD DRAWING

UTILITY LOCATIONS IN MAJOR STREETS  
PRIME ARTERIALS AND EXPRESSWAYS

CITY OF SAN DIEGO  
STANDARDS COMMITTEE  
COORDINATOR: *[Signature]* DATE: 2-7-95

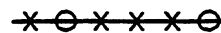
DRAWING NUMBER **SDM-111**



**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:**



Revision	By	Approved	Date
ORIGINAL		J.P. Casey	5-20-92

**CITY OF SAN DIEGO - STANDARD DRAWING**

**VINYL COATED CHAIN LINK FENCE**

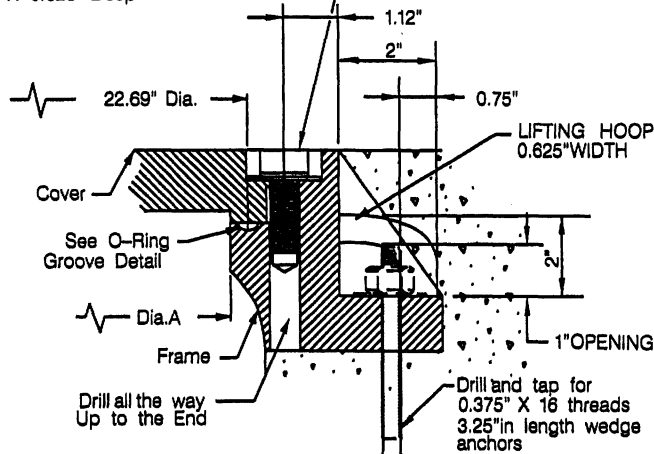
CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*[Signature]* 2-7-95  
COORDINATOR R.C.E. 25902 DATE

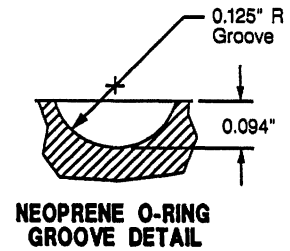
DRAWING  
NUMBER

**SDM-112**

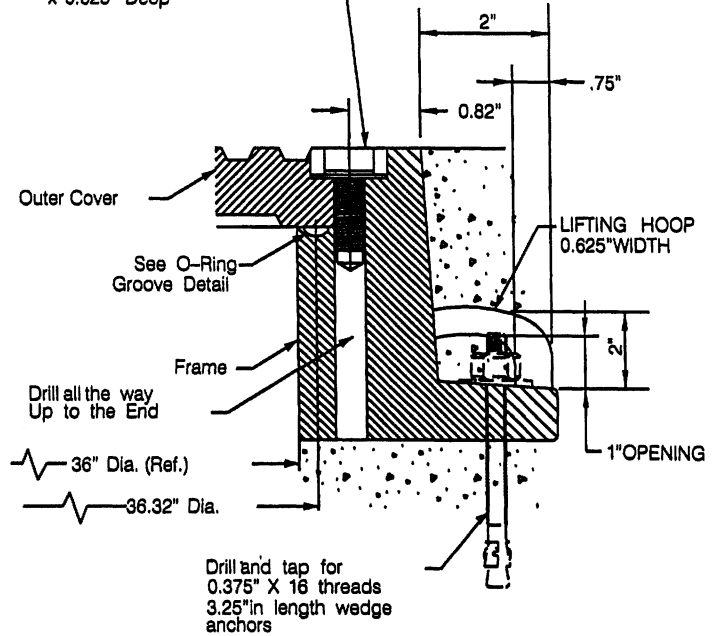
Drill and tap for 0.625" X 20  
Penta Bolt SS UNC Thread,  
1.50" Deep Cbore 1.625" Dia.  
X 0.625" Deep



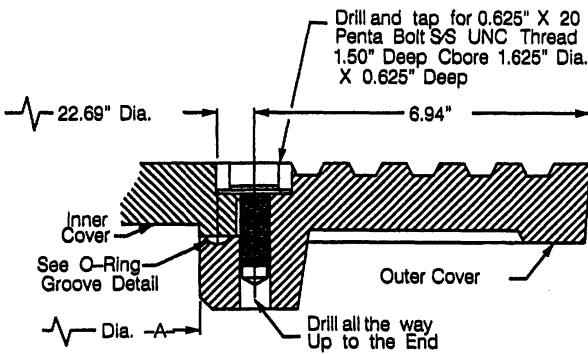
**M-1 Detail:  
COVER TO FRAME**



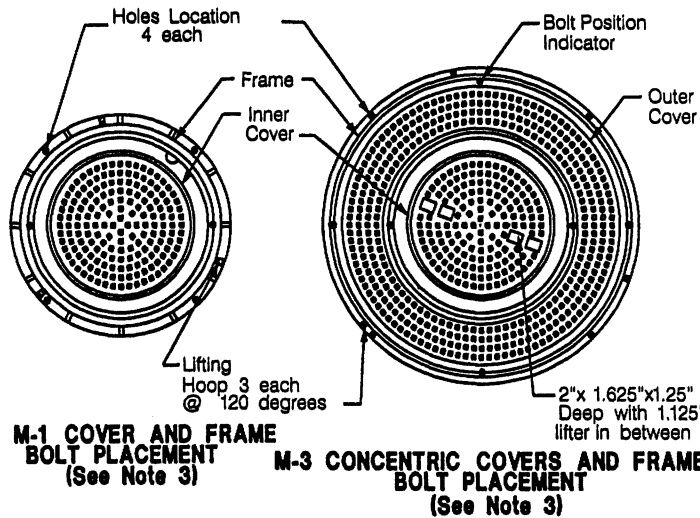
Drill and tap for 0.625" x 20  
Penta Bolt SS UNC Thread.  
1.50" deep Cbore 1.625" Dia.  
x 0.625" Deep



**M-3B Detail:  
OUTER COVER TO FRAME**



**M-3A Detail:  
INNER COVER TO OUTER COVER**



**NOTES:**

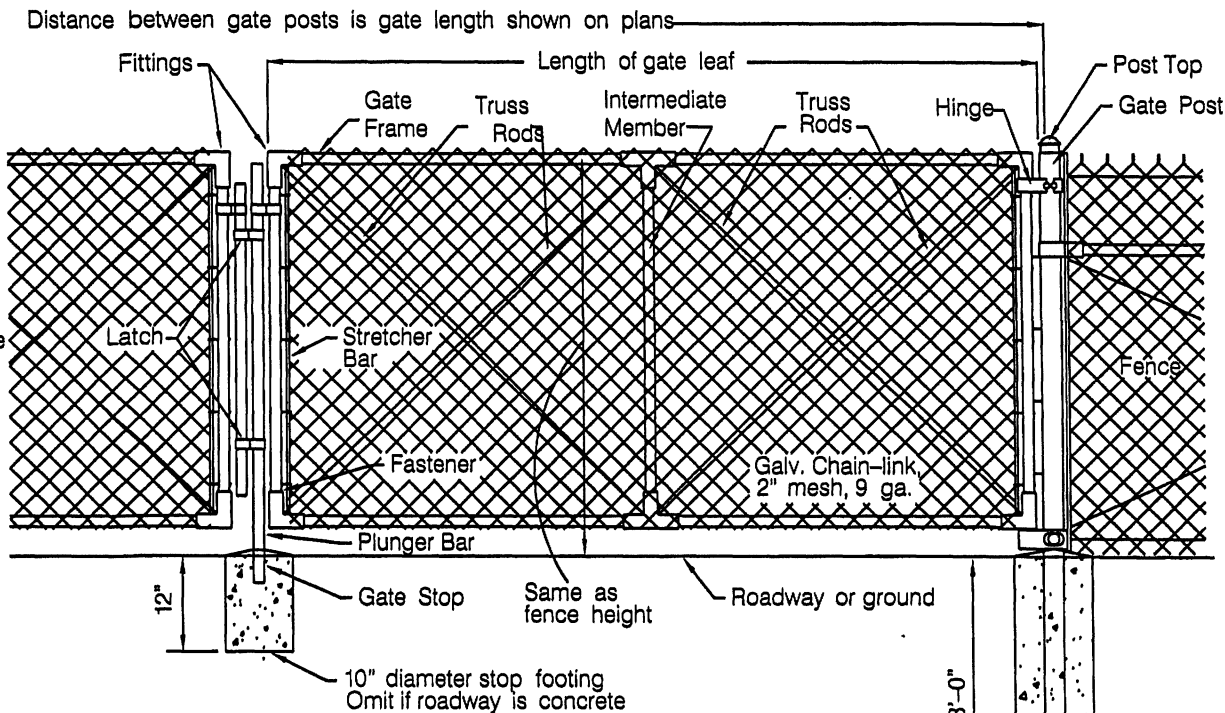
1. 0.625" X 20 PENTA BOLT SS UNC THREAD, 316 STAINLESS STEEL SOCKET HEAD CAP SCREW AND 1.50" O.D. x 0.687" I.D. X 0.078 THICK 316 STAINLESS STEEL WASHER.
  2. 0.25" NEOPRENE O-RING GASKET SHALL BE GLUED INTO MACHINED GROOVE. GLUE SHALL MEET THE REQUIREMENTS OF MIL-M-81288 (AMEND. 1)
  3. BOLTDOWN PATTERNS:
    - M-1 DETAIL (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.
- 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.

Revision	By	Approved	Date
Original	Oskoui		12/03

**CITY OF SAN DIEGO - STANDARD DRAWING**

**MANHOLE COVER - LOCKING DEVICE**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE  
*Bl* 12-9-03  
Chairperson RCE #4572 Date  
DRAWING NUMBER **SDM-113**

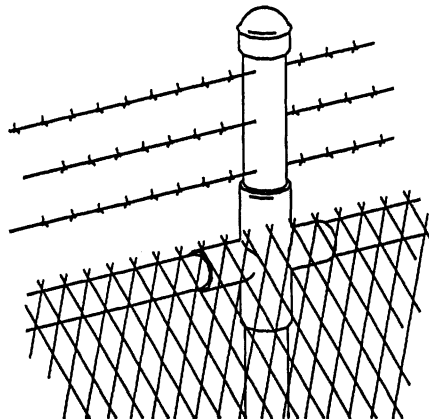


**HALF ELEVATION DOUBLE SWING GATE**

**NOTES**

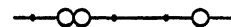
1. All footings shall be 520-C-2500 concrete.
2. The following items shall be furnished and installed only when shown on the plans and/or called for in the special provisions:
  - a. Barbed wire
  - b. Extension post
3. Chain link fence shall conform to Section 206-6 of the Standard Specification for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

Diameter of footing = 4 times outside diameter of post.



**EXTENSION POST AND BARBED WIRE**

**LEGEND ON PLANS**



**SHEET 1 OF 2**

Revision	By	Approved	Date
DETAIL	SM	Oskoui	12/03

**SAN DIEGO REGIONAL STANDARD DRAWING**

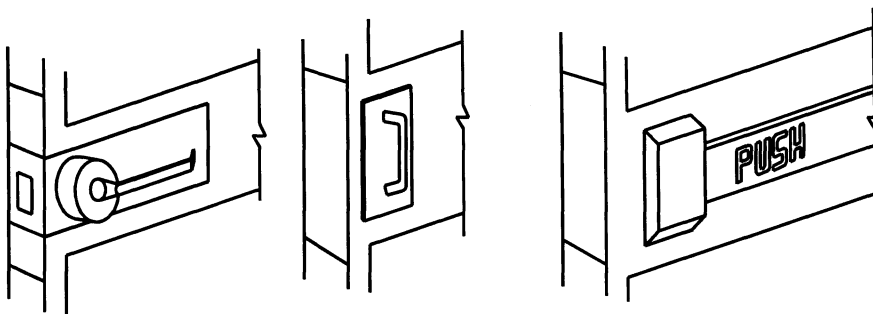
**CHAIN LINK GATE &  
CHAIN LINK PEDESTRIAN GATE**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*[Signature]* 12-9-03  
Chairperson RCE 64572 Date

DRAWING NUMBER **SDM-114**

**ACCEPTABLE GATE HARDWARE**



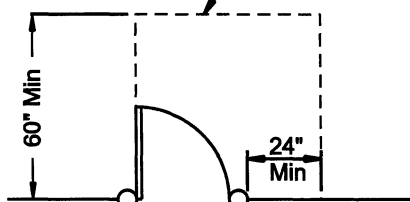
**LEVER**

**PUSH/PULL**

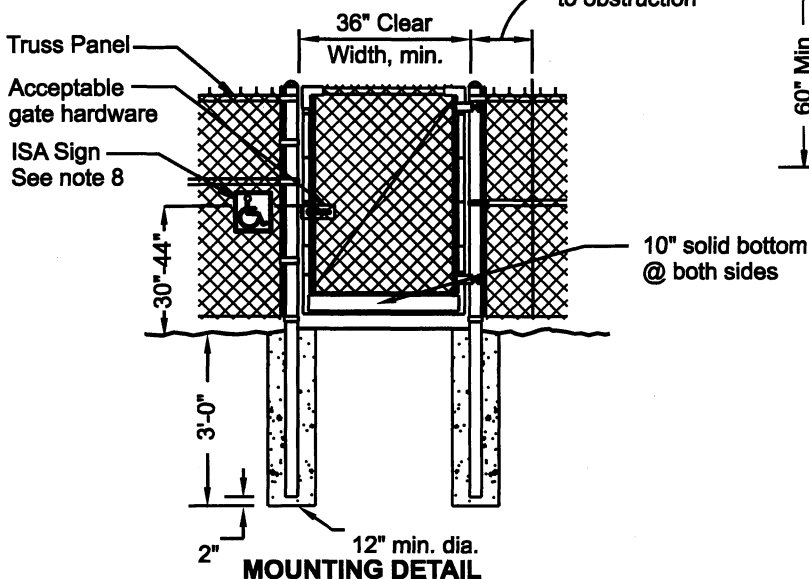
**PANIC BAR**

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

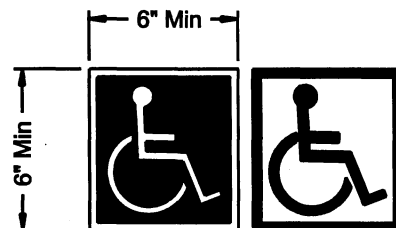
12" hinge side clearance to obstruction



**Level Maneuvering Clearance**



**MOUNTING DETAIL**



**International Symbol of Accessibility Sign (ISA)**

**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 tightener 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**



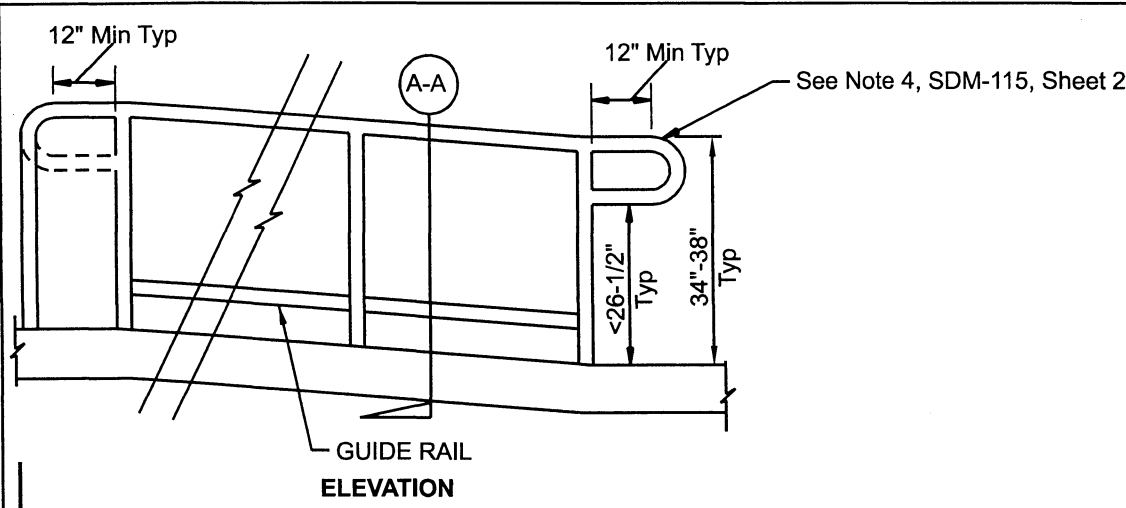
Revision	By	Approved	Date
Original	SM	A. Oskoui	12/03
Update	FC	A. Oskoui	12/06

**CITY OF SAN DIEGO - STANDARD DRAWING**

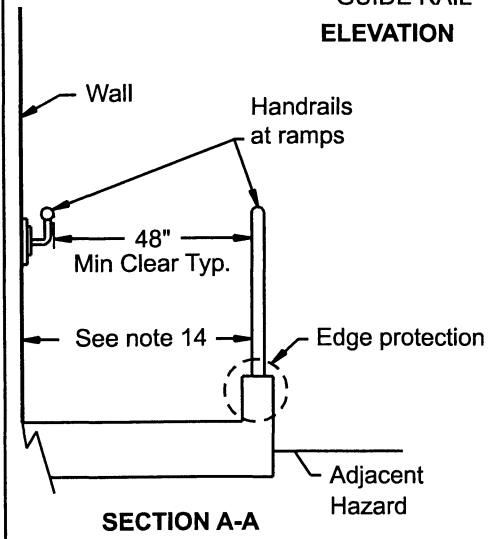
**CHAIN LINK PEDESTRIAN GATE**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE  
*M. Hall* 12/10/6  
COORDINATOR R.C.E 65271 - Date  
**DRAWING NUMBER SDM-114**





GUIDE RAIL  
ELEVATION

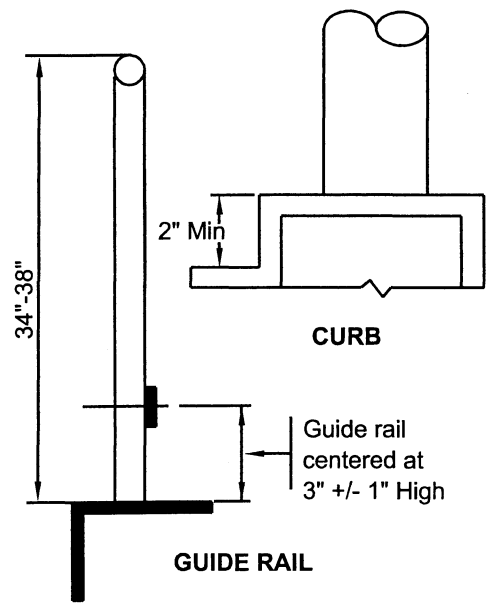


SECTION A-A

**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.

**Examples of edge protection:**



CURB

GUIDE RAIL

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

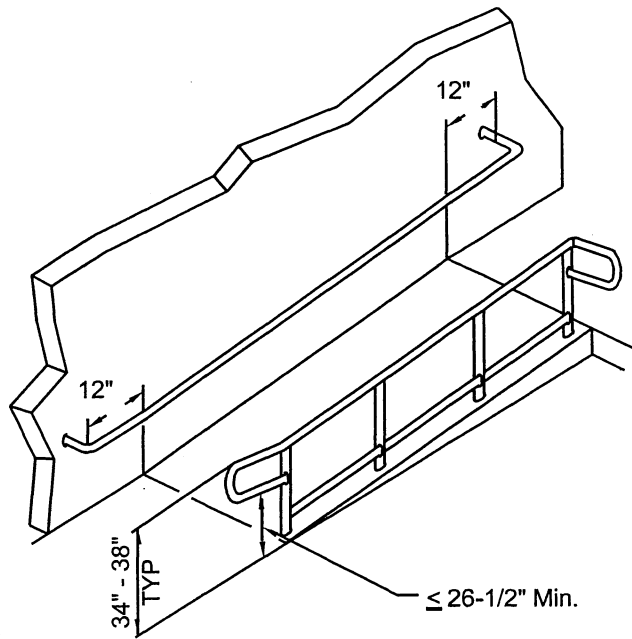
**CITY OF SAN DIEGO - STANDARD DRAWING**

**PEDESTRIAN RAMP  
AND PROTECTIVE RAILING**

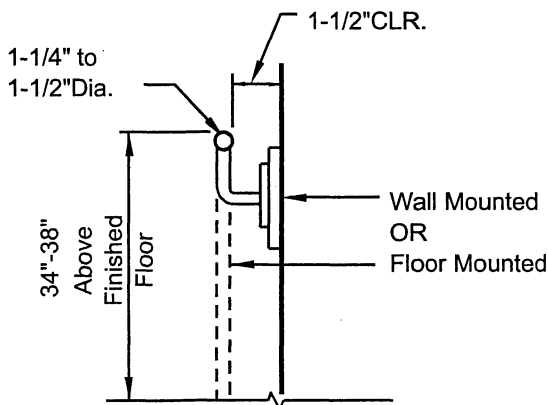
CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*M. A. ...* 12/16/16  
COORDINATOR R.C.E 65271 - Date

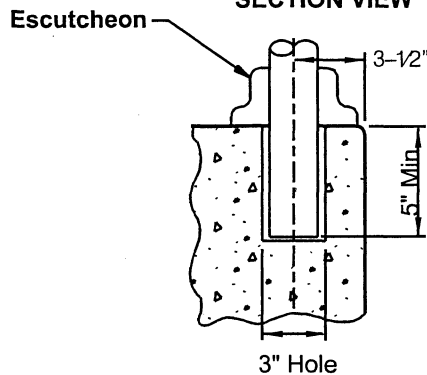
**DRAWING  
NUMBER SDM-115**



**ISOMETRIC VIEW**



**SECTION VIEW**



**VERTICAL RAIL MOUNTING DETAIL**

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

**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.

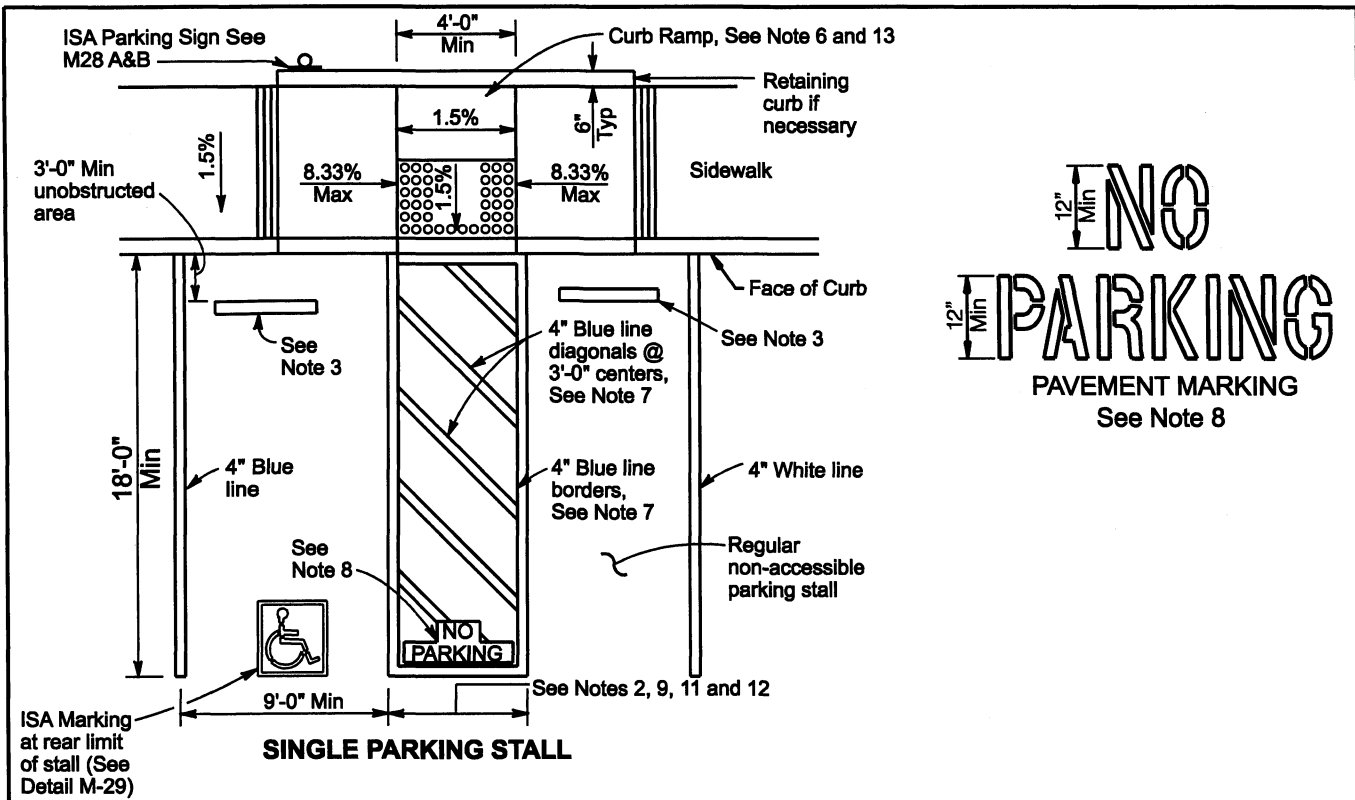
**SHEET 2 OF 2**

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

**CITY OF SAN DIEGO - STANDARD DRAWING**

**PEDESTRIAN RAMP AND PROTECTIVE RAILING**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE  
*M. Wael*: 12/16/6  
COORDINATOR R.C.E 65271 - Date  
**DRAWING NUMBER** **SDM-115**



12" Min

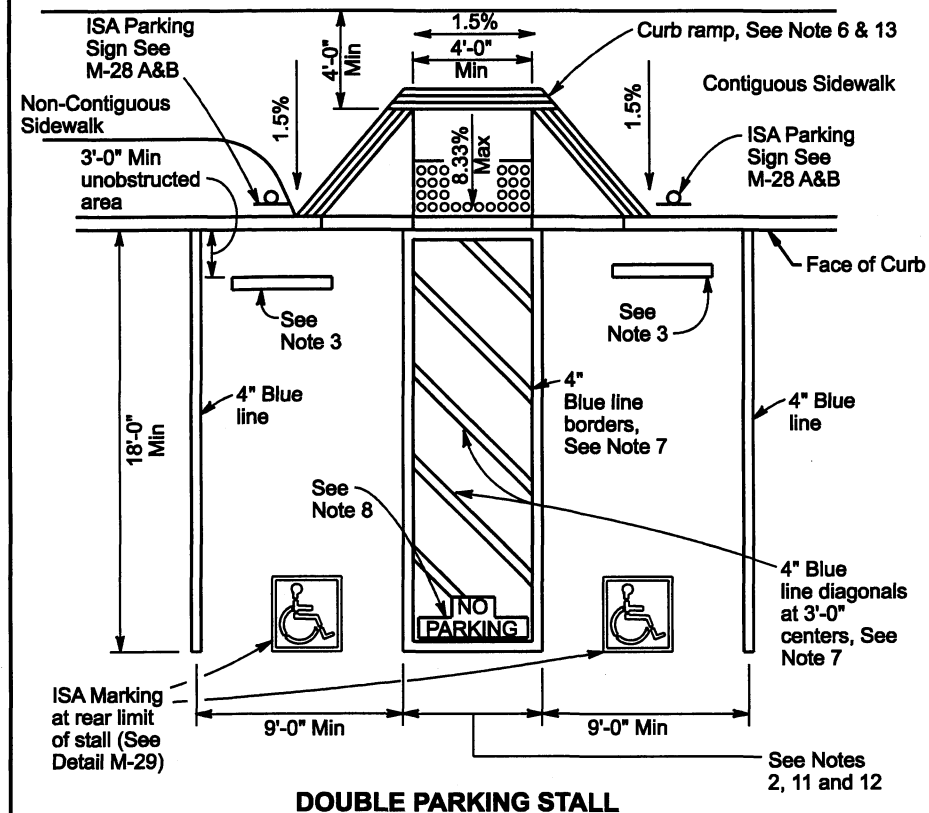
**NO**

12" Min

**PARKING**

PAVEMENT MARKING

See Note 8



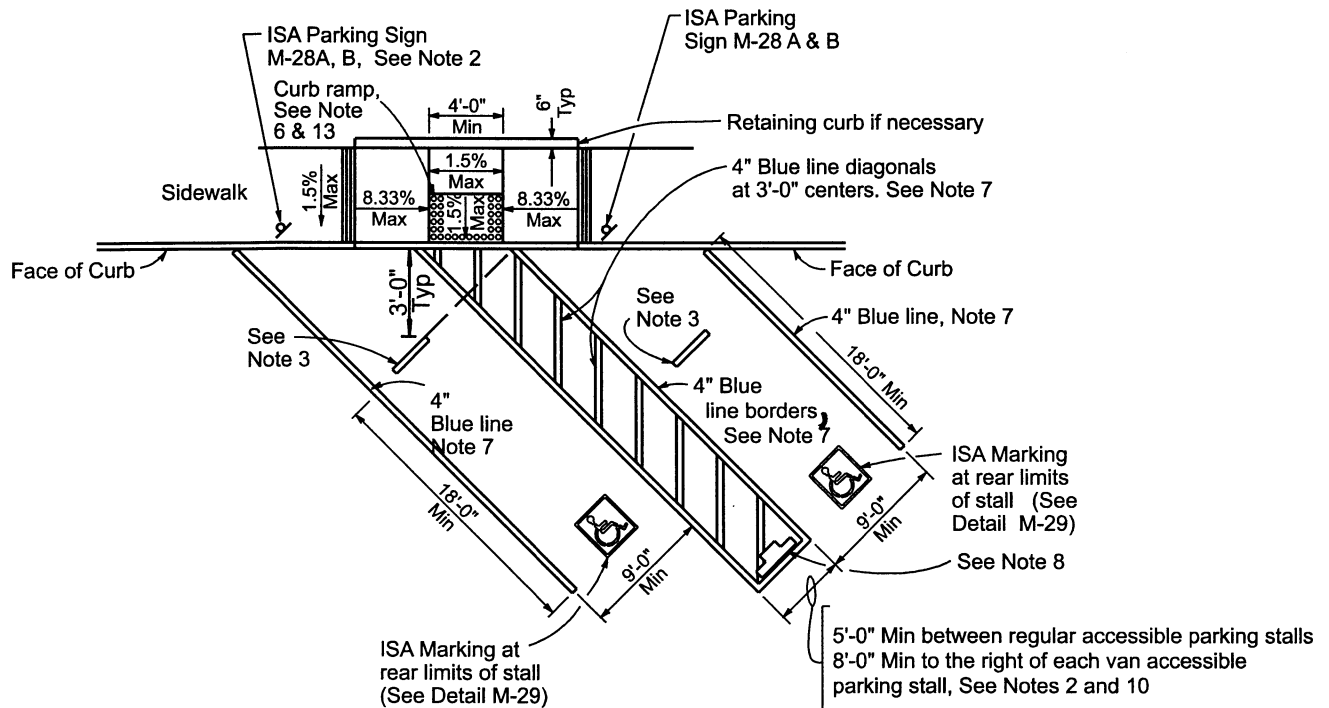
**REQUIRED ACCESSIBLE PARKING STALLS**  
**TABLE A**

Total No. of Parking Spaces or Stalls	Minimum No. of Disabled Accessible Parking Spaces or Stalls
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2 % of Total
Greater than 1001	20 plus 1 for each 100 or fraction thereof over 1001

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE
Original	FC	A. Oskoui	12/06		
				<b>ACCESSIBLE PARKING</b>	COORDINATOR R.C.E 65271 - Date
					DRAWING NUMBER <b>SDM-117</b>

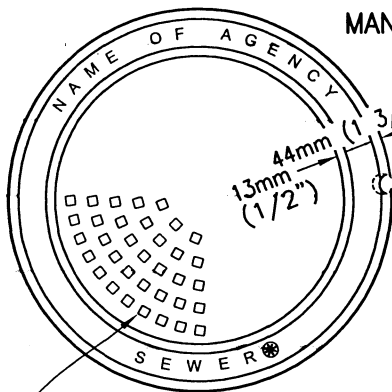
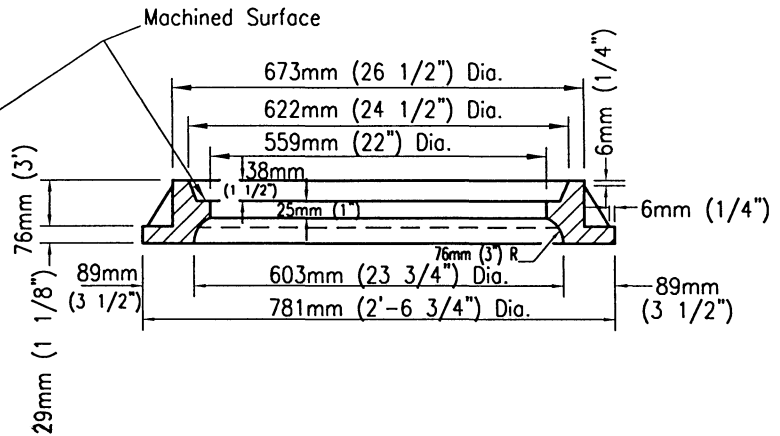
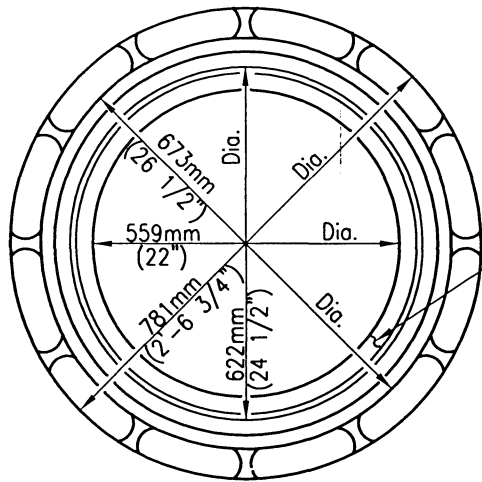
**NOTES:**

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 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 stall, 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 & aisles.
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.

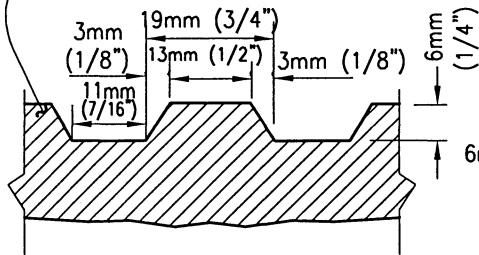
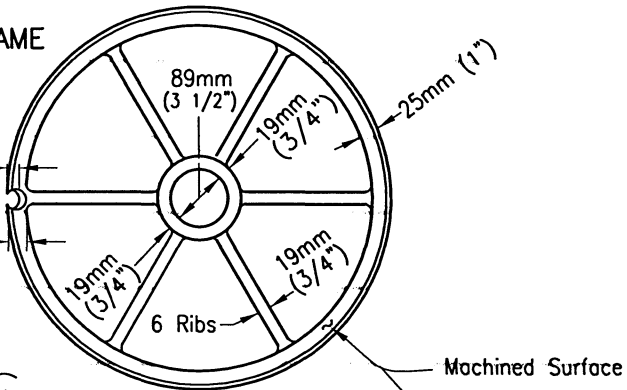


**DIAGONAL DOUBLE PARKING STALLS**

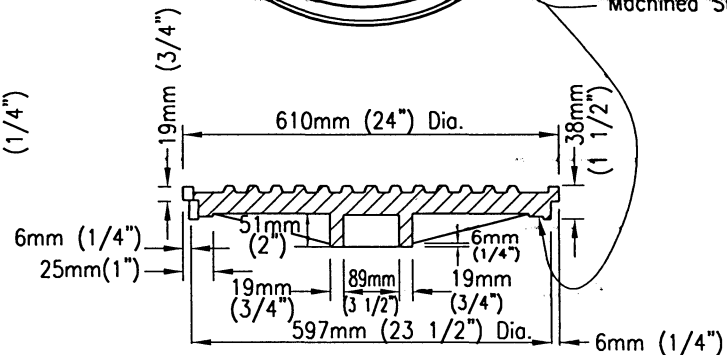
Revision	By	Approved	Date	<b>CITY OF SAN DIEGO - STANDARD DRAWING</b>	CITY OF SAN DIEGO STANDARDS COMMITTEE
Original	FC	A. Oskoui	12/06		
				<b>ACCESSIBLE PARKING</b>	<i>M. Hale</i> 12/16/06
					COORDINATOR R.C.E 65271 - Date
					<b>DRAWING</b>
					<b>NUMBER SDM-117</b>



**MANHOLE COVER FRAME**



**DETAIL**



**NOTES**

**MANHOLE COVER**

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 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.

FOR	MARK
Sewer Projects	Sewer
Storm Drain Projects	Storm Drain
Water Projects	Water

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

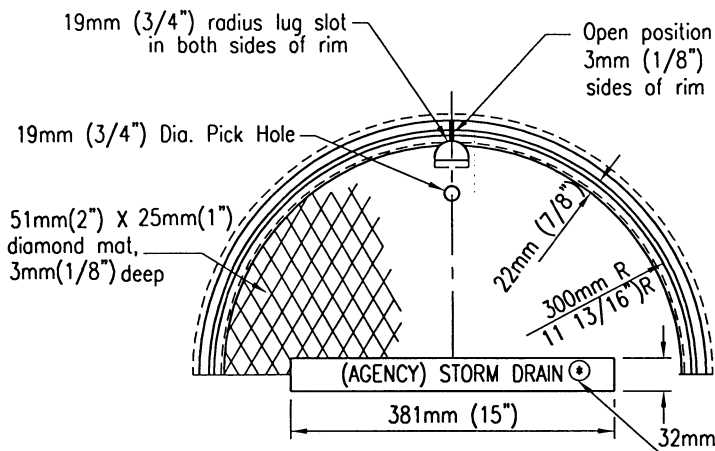
**SAN DIEGO REGIONAL STANDARD DRAWING**

**.61m (24") MANHOLE FRAME AND COVER  
HEAVY DUTY**

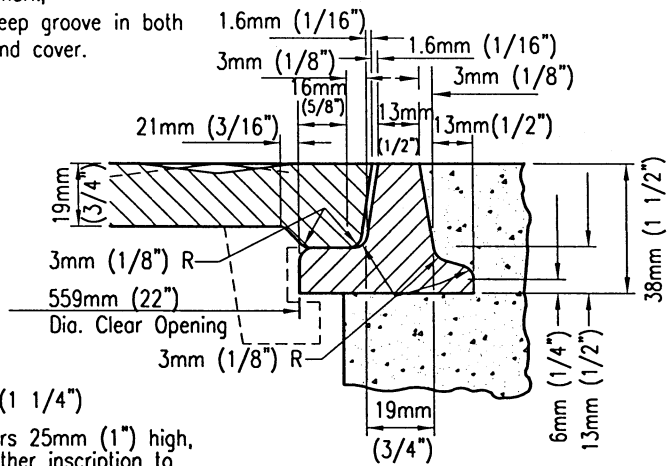
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/10/2003  
Chairperson R.C.E. 19246 Date

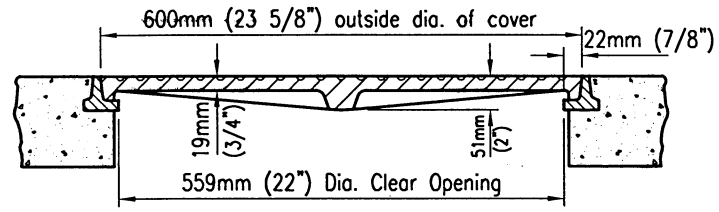
DRAWING NUMBER **M-1**



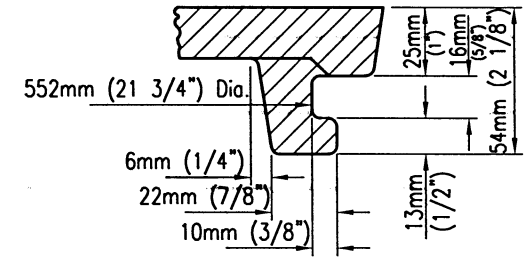
TOP OF FRAME & COVER



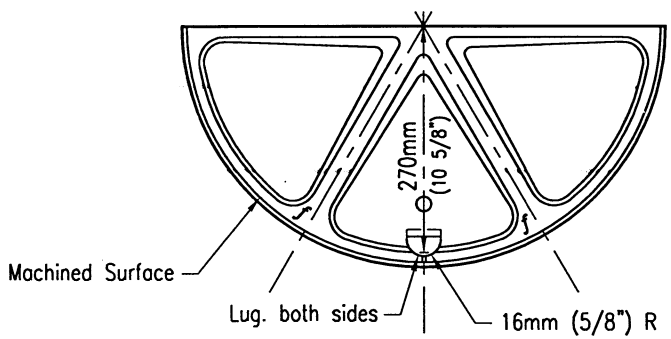
SECTION THROUGH RIM



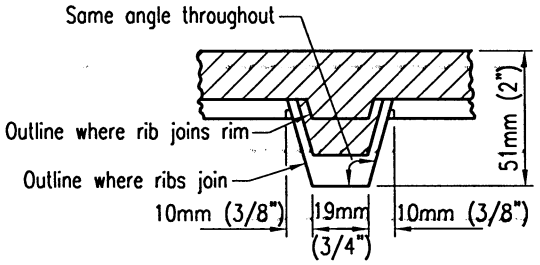
SECTION THROUGH FRAME & COVER



SECTION THROUGH LUG



BOTTOM OF COVER



SECTION THROUGH RIB AT MID RADIUS

**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.
3. Weights: Frame 13.2kg (29) - 15kg (33) lbs.  
Cover 4.3kg (9.5) - 5.0kg (11.0) lbs.
4. Imported frames and covers shall have the country of origin marked in compliance with federal regulations.

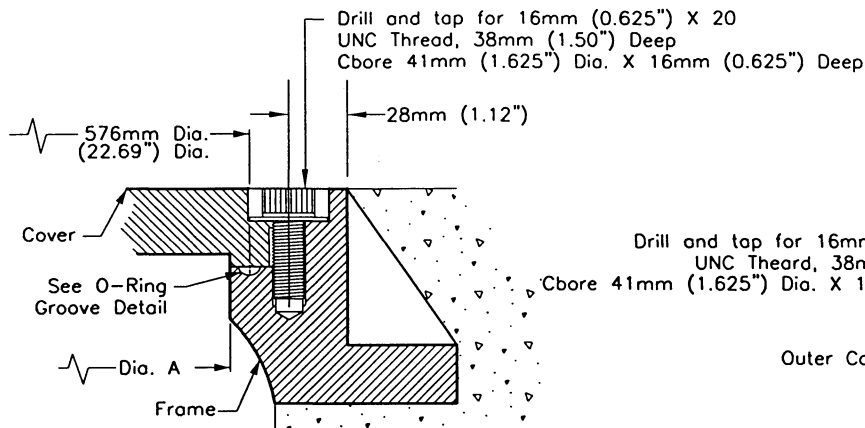
FOR	MARK
Sewer Projects	Sewer
Storm Drain Projects	Storm Drain
Water Projects	Water

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

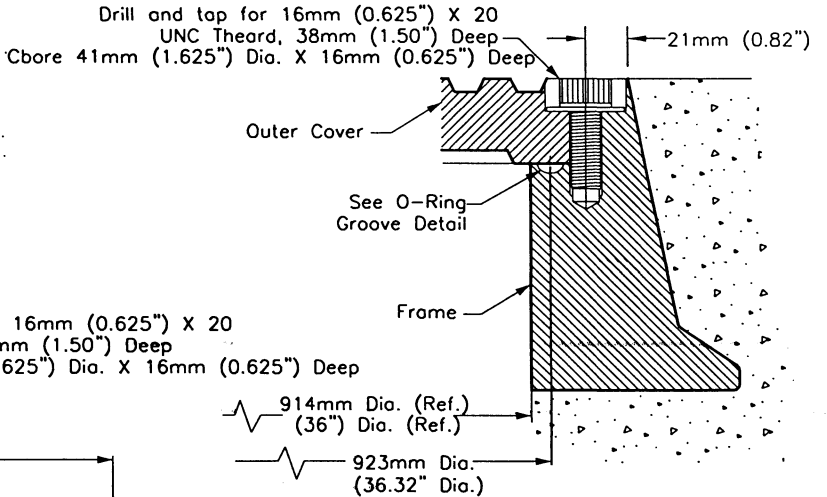
**SAN DIEGO REGIONAL STANDARD DRAWING**  
**.61m (24") MANHOLE FRAME AND COVER**  
**LIGHT DUTY**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE  
*T. Stanton* 3/10/2003  
Chairperson R.C.E. 19246 Date  
**DRAWING NUMBER M-2**

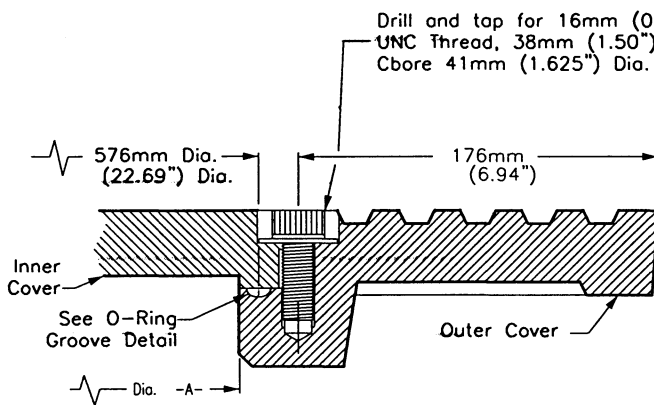




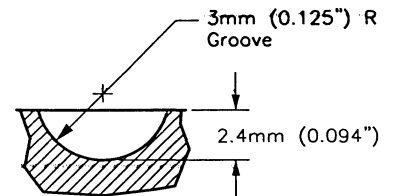
M-1 Detail:  
COVER TO FRAME



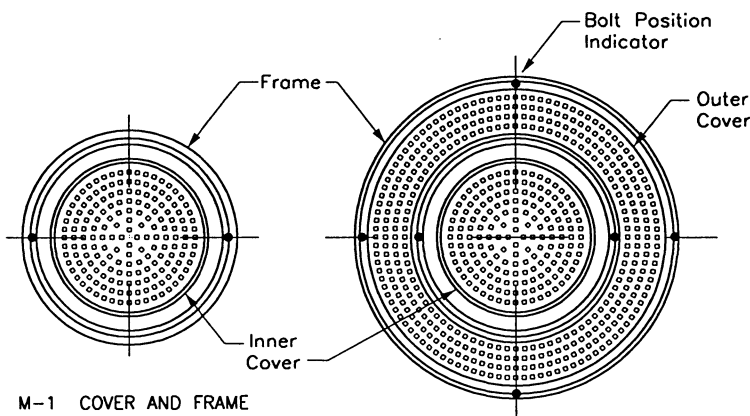
M-3B Detail:  
OUTER COVER TO FRAME



M-3A Detail:  
INNER COVER TO OUTER COVER



NEOPRENE O-RING  
GROOVE DETAIL



M-1 COVER AND FRAME  
BOLT PLACEMENT  
(See Note 3)

M-3 CONCENTRIC COVERS AND FRAME  
BOLT PLACEMENT  
(See Note 3)

NOTES:

- 16mm (0.625") X 20 UNC THREAD, 316 STAINLESS STEEL SOCKET HEAD CAP SCREW AND 38mm (1.50") O.D. X 17mm (0.687") I.D. X 0.078 THICK 316 STAINLESS STEEL WASHER.
- 6mm (0.25") NEOPRENE O-RING GASKET SHALL BE GLUED INTO MACHINED GROOVE. GLUE SHALL MEET THE REQUIREMENTS OF MIL-M-81288 (AMEND. 1)
- BOLTDOWN PATTERNS:
  - M-1 DETAIL (610mm (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.

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

SAN DIEGO REGIONAL STANDARD DRAWING

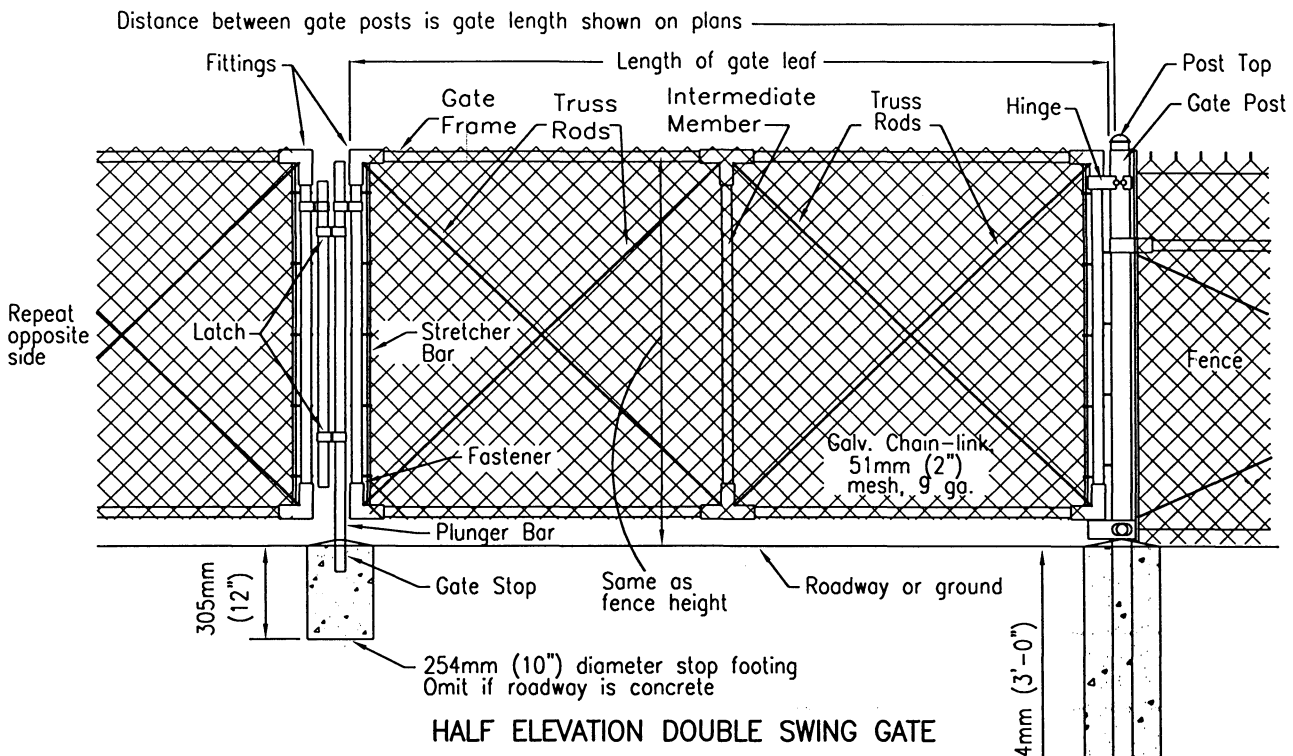
MANHOLE COVER - LOCKING DEVICE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/10/2003  
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **M-4**





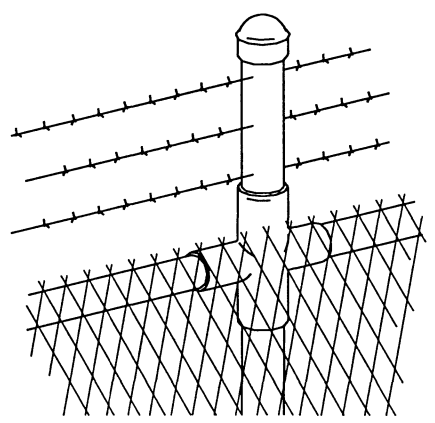
HALF ELEVATION DOUBLE SWING GATE

NOTES

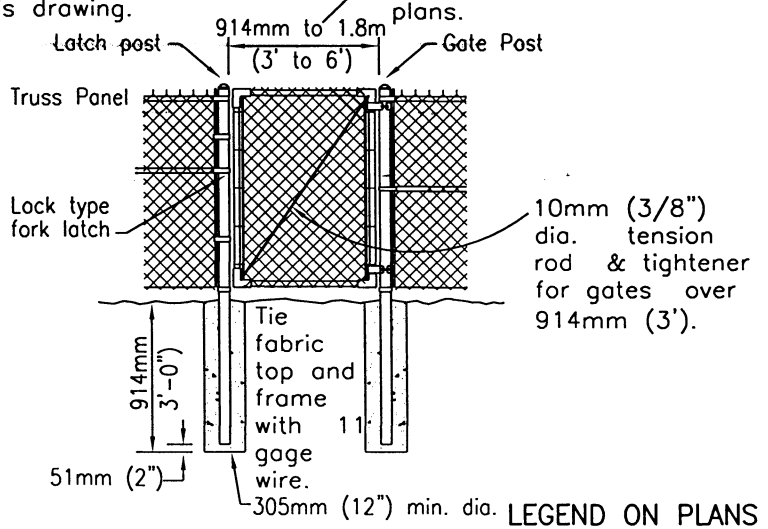
1. All footings shall be 309kg/M<sup>3</sup> -C-22-Mpa (520-C-2500) concrete.
2. The following items shall be furnished and installed only when shown on the plans and/or called for in the special provisions:
  - a. Barbed wire
  - b. Extension post
3. Chain link fence shall conform to Section 206-6 of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

Diameter of footing = 4 times outside diameter of post.

Clear opening shown on plans.

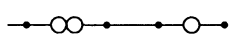


EXTENSION POST AND BARBED WIRE



WALK GATE

LEGEND ON PLANS



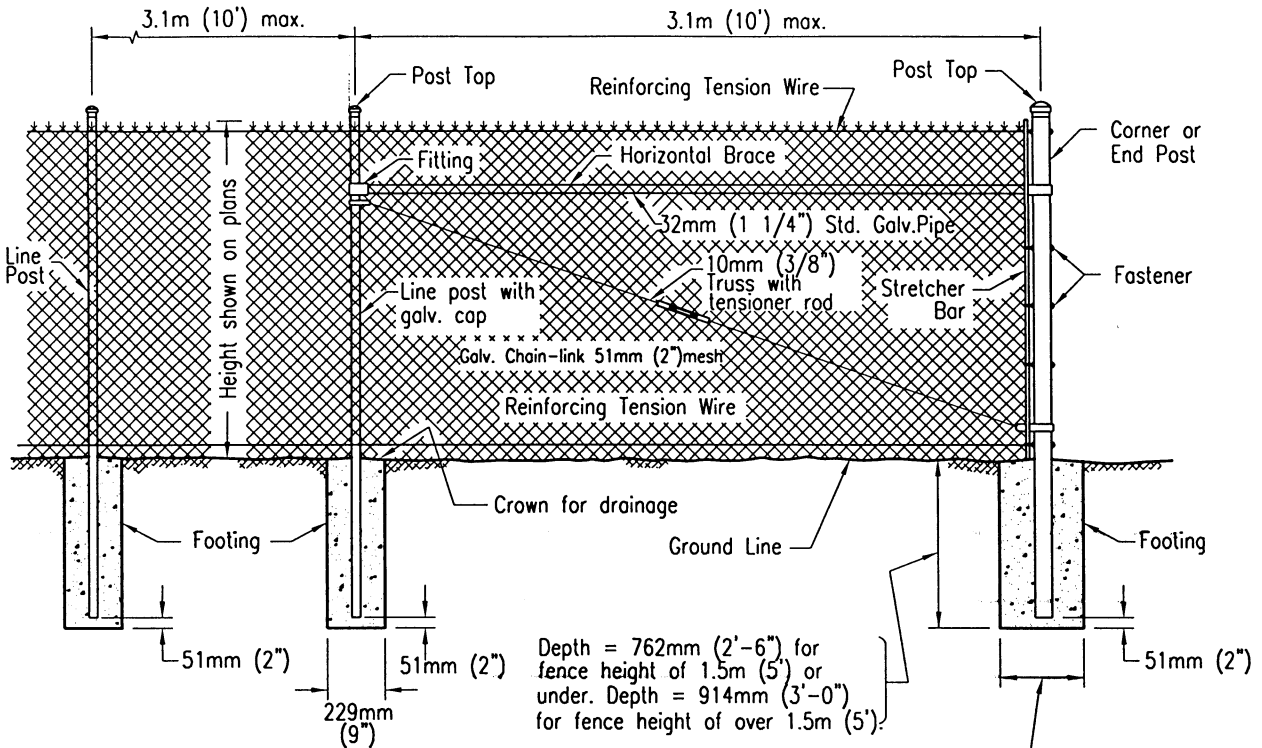
Revision	By	Approved	Date
ORIGINAL		A. Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

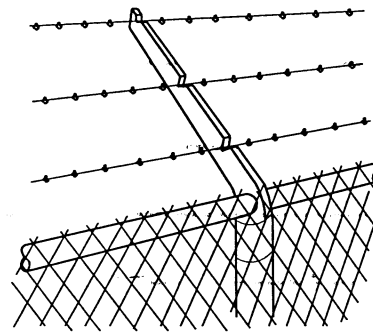
CHAIN LINK GATE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE  
*T. Stanton* 3/10/2003  
 Chairperson R.C.E. 19246 Date

DRAWING NUMBER **M-5**



Diameter of footing = 4 times outside diameter of post.

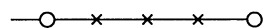


EXTENSION ARM AND BARBED WIRE

**NOTES**

1. All footings shall be 309kg/M<sup>3</sup>-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.
4. See Standard Drawing M-20 for additional details.

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		A. Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

**SAN DIEGO REGIONAL STANDARD DRAWING**

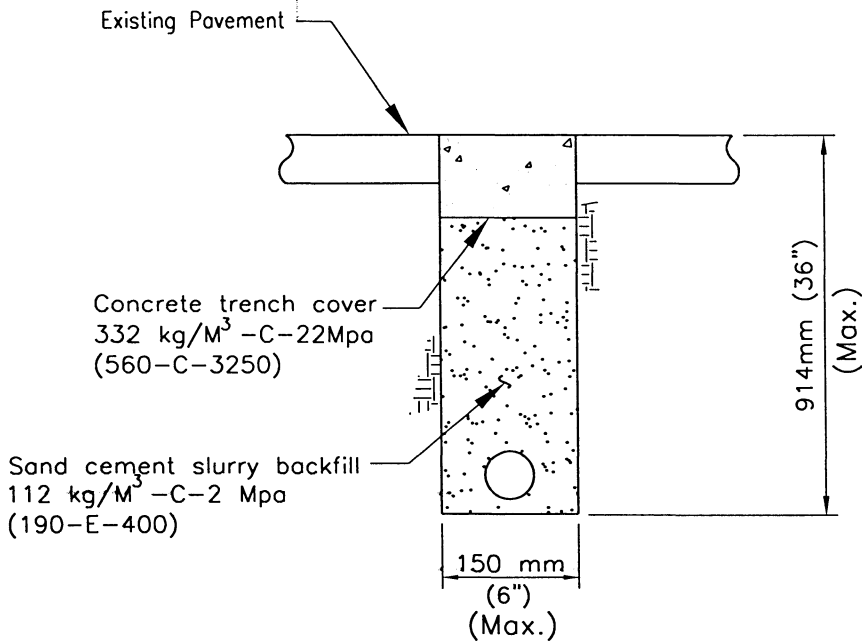
**CHAIN LINK FENCE**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date

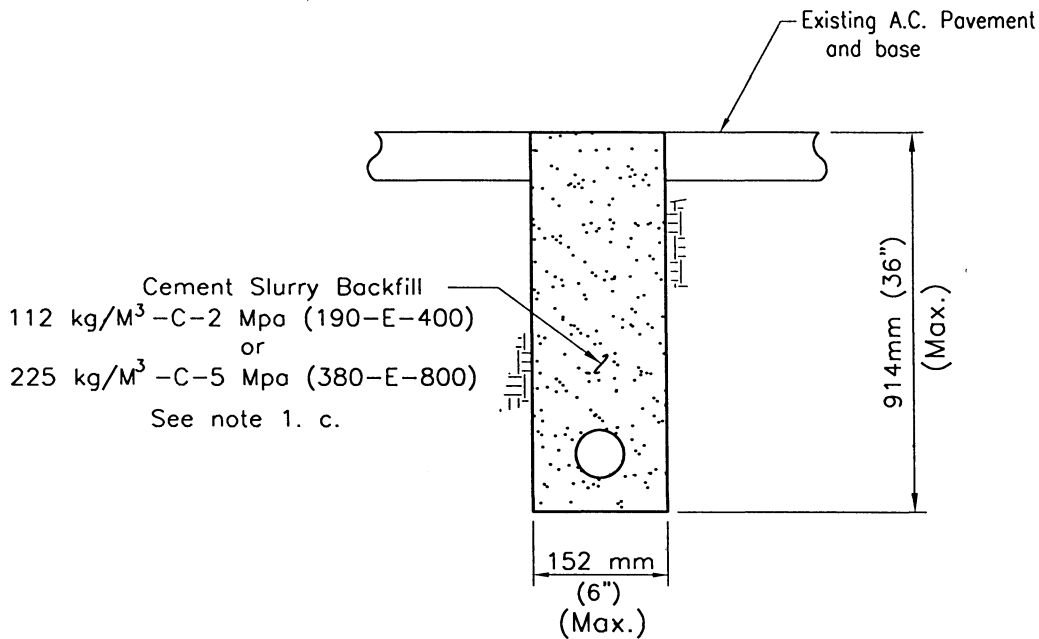
DRAWING NUMBER **M-6**



**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.
9. See table on drawing M-15 for standard minimum conduit depths.

Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Hoshemion	9/02		<i>T. Stanton</i> 3/10/2003
Add Metric		T. Stanton	03/03	<b>NARROW TRENCHES TRENCHING &amp; BACKFILLING</b>	Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06		DRAWING NUMBER <b>M-7</b>

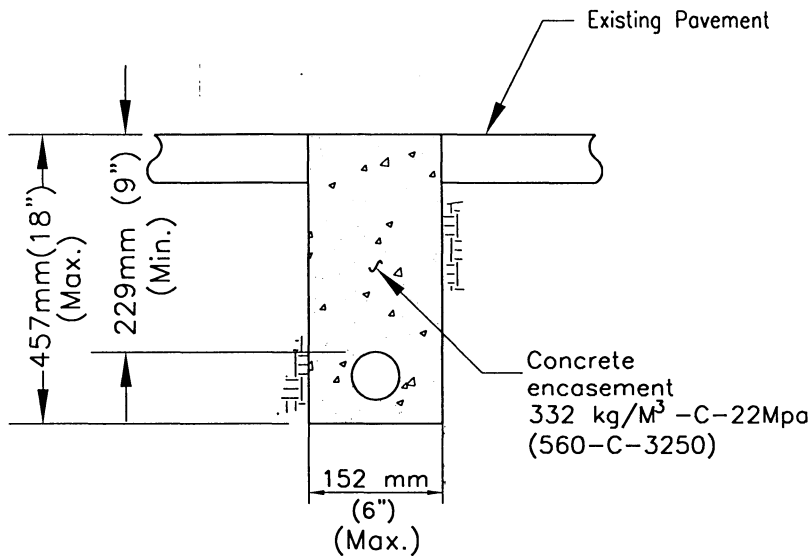


**NOTES**

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. Tampers or vibrators shall be used.
  - c. Cement slurry backfill shall be as follows:
 

Alleys and local residential streets .....	Class 112 kg/M <sup>3</sup> -C-2 Mpa (190-E-400)
All other streets .....	Class 225 kg/M <sup>3</sup> -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.

Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Hoshemian	9/02		<i>T. Stanton</i> 3/01/2003
Add Metric		T. Stanton	03/03	<b>NARROW TRENCHES TRENCHING &amp; BACKFILLING</b>	Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06		<b>DRAWING NUMBER M-7A</b>



**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. 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. 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.

Revision	By	Approved	Date
ORIGINAL		Hashemian	9/02
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

**SAN DIEGO REGIONAL STANDARD DRAWING**

**NARROW TRENCHES  
TRENCHING & BACKFILLING  
SHALLOW CONDUIT DEPTH**

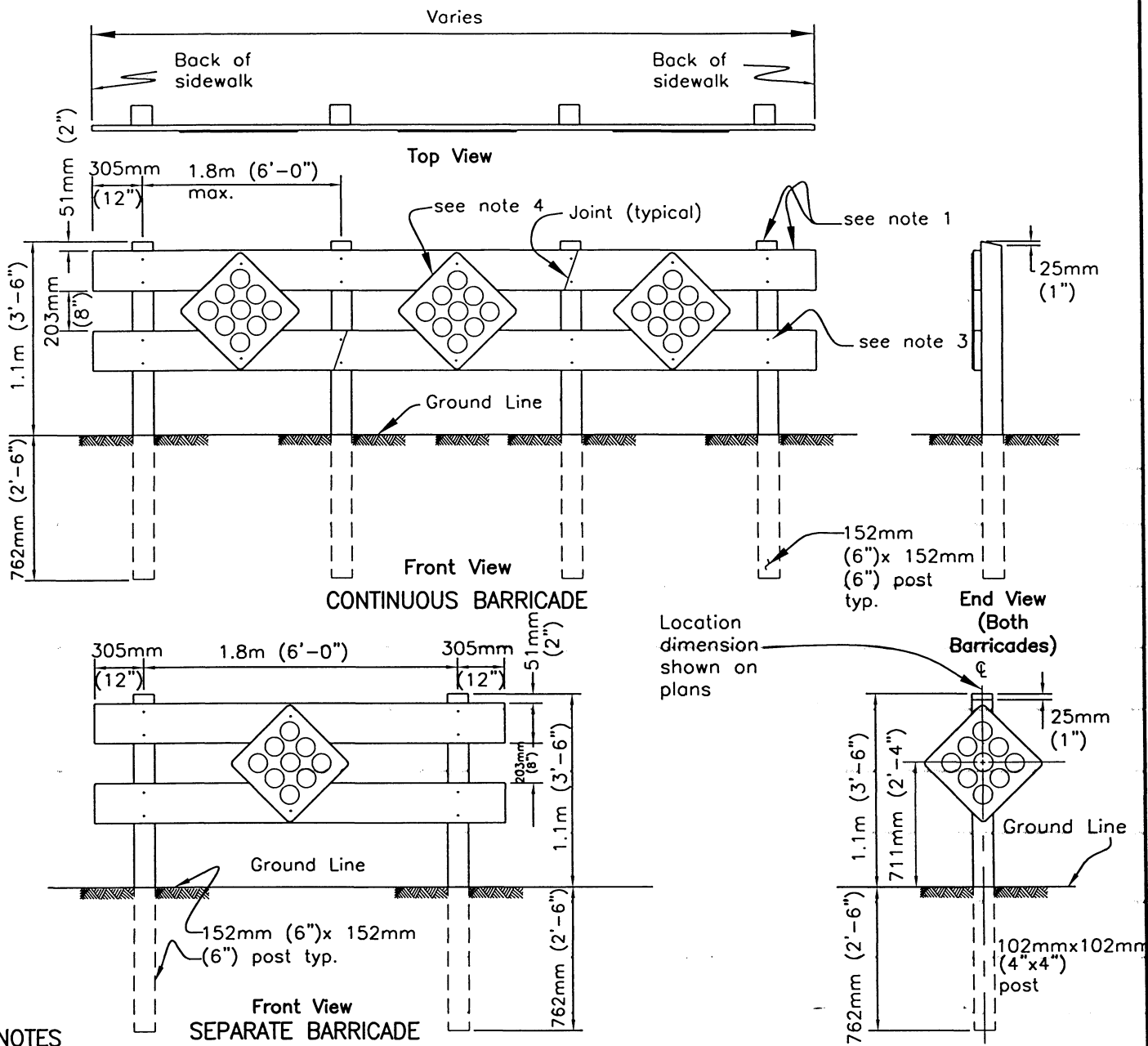
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER

**M-8**



**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.  
 Reflector sign fasteners 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. Reflector material shall be plastic or other approved reflectorized material.
  - b. Sign material shall be aluminum alloy 6061-T6 or 5052-H38, aluminum thickness 1.6mm (0.063").
5. 1.8m (6') long hat section metal post per Caltrans Std. Plan A74-A optional for guard post.

**LEGEND ON PLANS**

- — □  
Barricade
- Guard Post

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

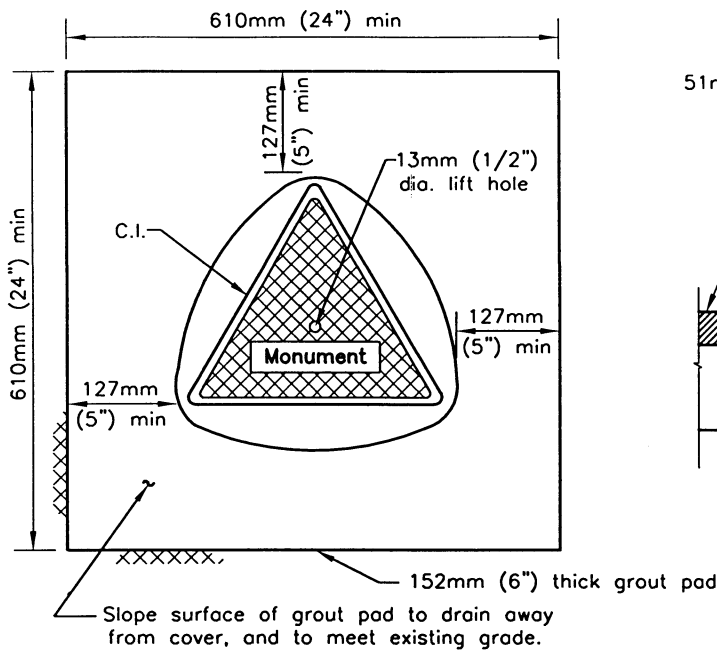
**SAN DIEGO REGIONAL STANDARD DRAWING**

**GUARD POST AND BARRICADE**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

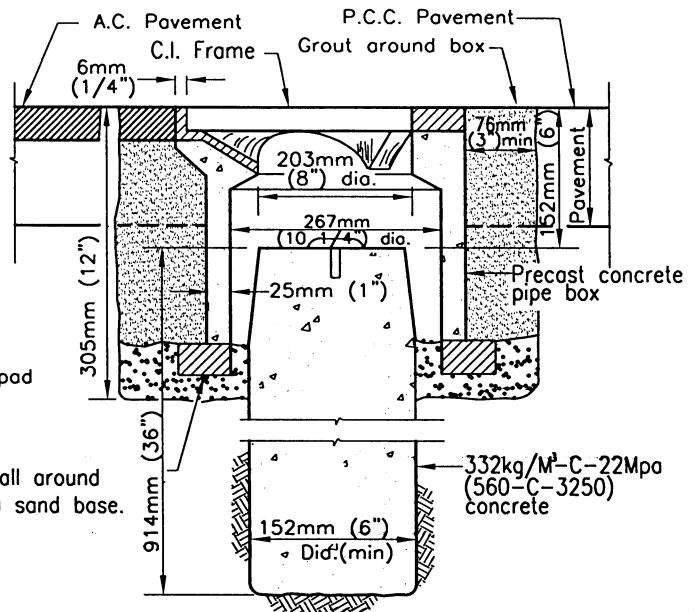
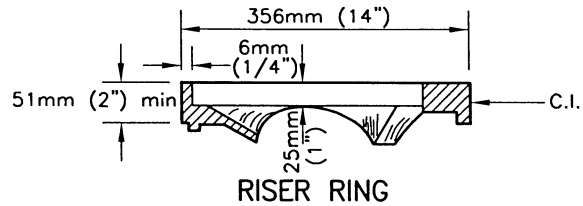
*T. Stanton* 31012003  
 Chairperson R.C.E. 19246 Date

DRAWING NUMBER **M-9**



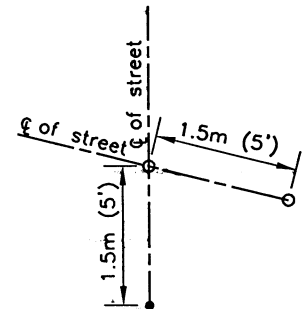
PLAN-IN UNPAVED AREA

Brick support all around on 51mm (2") sand base.



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.



Alteration location of monument. Tie distances shown on final subdivision map if alternate location is used.

LOCATION OF STREET SURVEY MONUMENT

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

STREET SURVEY MONUMENT

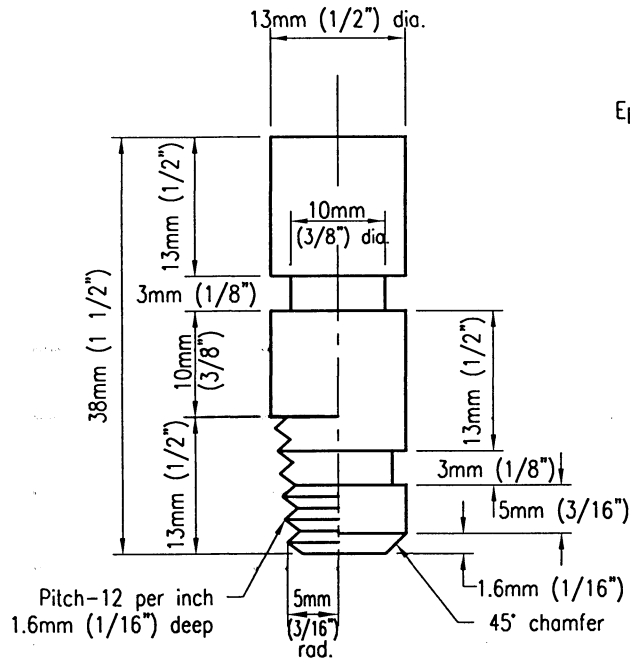
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/10/2003

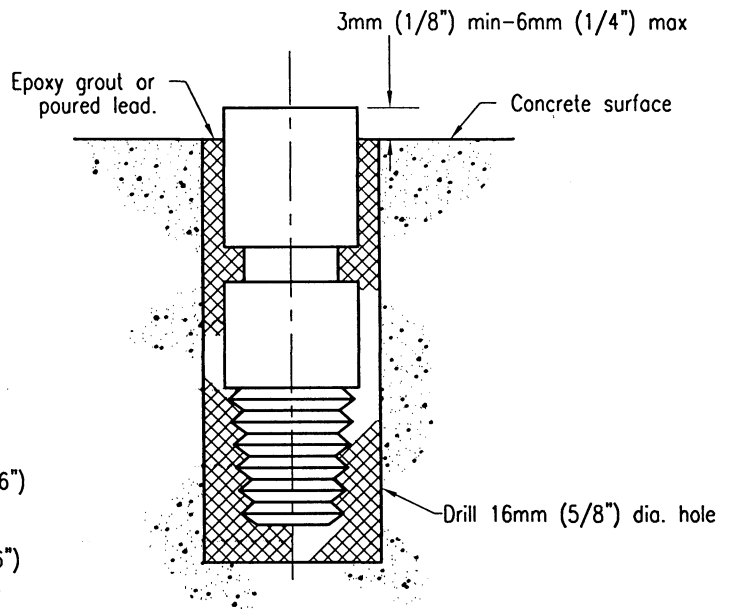
Chairperson R.C.E. 19246 Date

DRAWING NUMBER

M-10



TYPE-A TYPE-B  
ELEVATION



INSTALLATION IN EXISTING CONCRETE  
(Typical for Type A or B)

NOTES

1. Material- Brass A.S.T.M. B-16. All machine tolerances  $\pm 0.4\text{mm}$  ( $1/64$ " ) 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.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

BENCH MARK - BRASS PLUG

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/10/2003  
Chairperson R.C.E. 19246 Date

DRAWING NUMBER

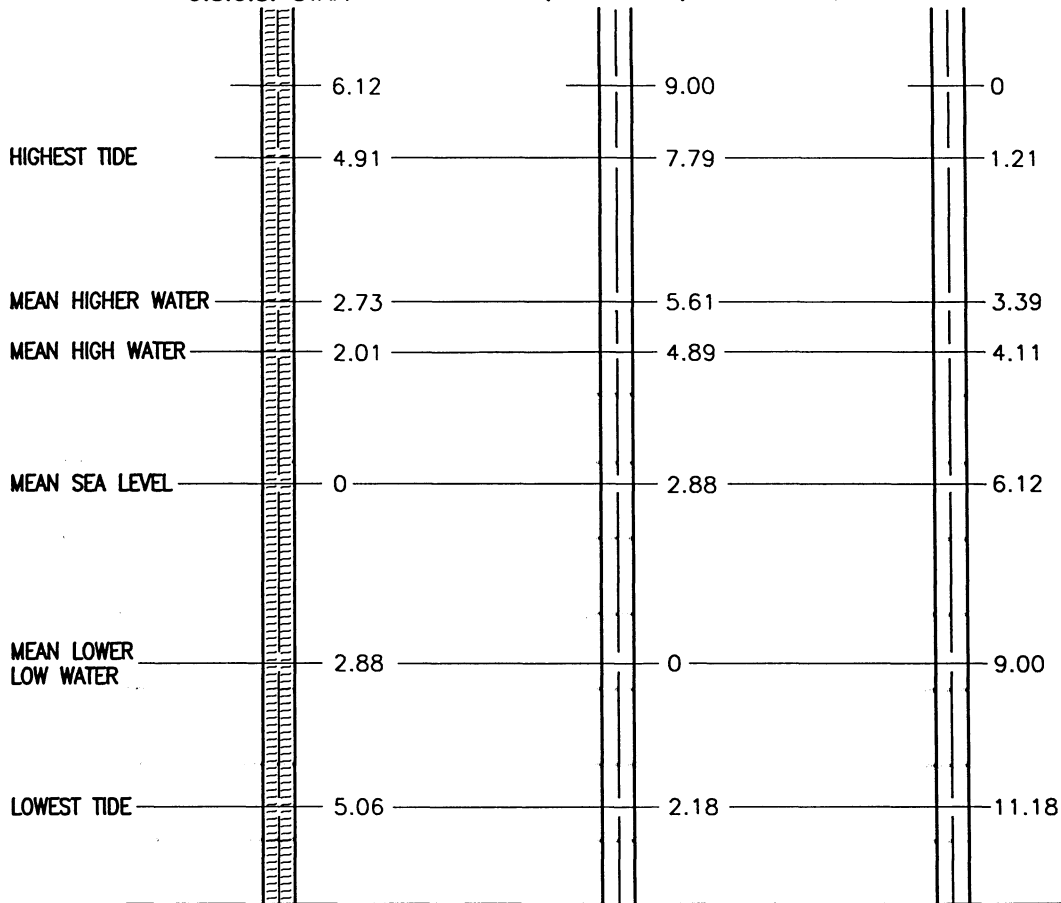
M-11



COUNTY OF SAN DIEGO  
CITY OF SAN DIEGO  
U.S.C. & G. (LAND)  
U.S.G.S. STAFF

PORT OF SAN DIEGO  
U.S.C. & G.  
(BAY CHART)

OLD CITY OF  
SAN DIEGO STAFF  
(PRIOR TO MARCH 1963)



### LEGEND

- U.S.C. & G. = United States Coast and Geodetic Survey.
- U.S.G.S. = United States Geological Survey.
- 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".

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Kercheval	12/75		<b>DATUMS</b>
Add Metric		T. Stanton	03/03		
Reviewed		T. Stanton	04/06	DRAWING NUMBER	
				<b>M-12</b>	

## 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

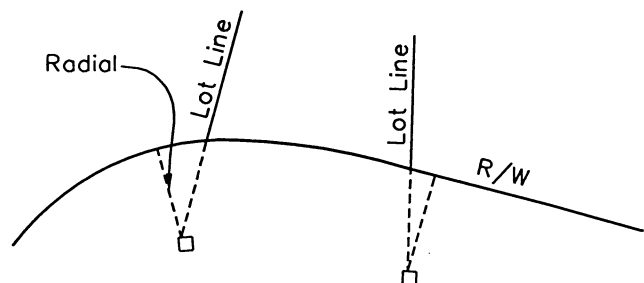
- Fd 51mm (2") Iron Pipe Marked RCE XXXX or per Map XXX unless otherwise noted
- ▲ Fd Street Survey Monument Stamped RCE XXXX or LS XXXX
- ◎ Set 51mm (2") x 610mm (24") Iron Pipe Marked RCE XXXX or LS XXXX
- Set Lead and Disc Stamped RCE XXXX or LS XXXX
- Set 13mm (½") x 457mm (18") Iron Pipe Marked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



EXAMPLE OF OFFSET DISCS

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Kercheval	12/75		<b>SURVEY MONUMENTS</b>
Add Metric		T. Stanton	03/03		
Reviewed		T. Stanton	04/06	DRAWING NUMBER	
				<b>M-13</b>	

1 Gram = 15.4324 grains  
 1 Gram = 0.0353 oz.  
 1 Kg. = 2.2046 lb.  
 1 Kg. = 0.0011 ton  
 1 Ton (met) = 1.1023 ton

WEIGHT

1 Grain = 0.0648 g.  
 1 Once = 28.3495 g.  
 1 Pound = 0.4536 kg.  
 1 Ton = 907.1848 kg.  
 1 Ton = 0.9072 ton (met)

1 Sq. cm. = 0.1550 sq. in.  
 1 Sq. m. = 10.7639 sq. ft.  
 1 Sq. m. = 1.1960 sq. yd.  
 1 Hectare = 2.4710 acres  
 1 Sq. km. = 0.3861 sq. mile  
 1 Sq. km. = 247.10 acres

AREA

1 Sq. in. = 6.4516 sq. cm.  
 1 Sq. ft. = 0.0929 sq. m.  
 1 Sq. yd. = 0.8361 sq. m.  
 1 Acre = 0.4047 hectare  
 1 Sq. mile = 2.5900 sq. km.  
 1 Acre = 0.0040 sq. km.

1 Cu. cm. = 0.0610 cu. in.  
 1 Cu. m. = 35.3134 cu. ft.  
 1 Cu. m. = 1.3079 cu. yd.

VOLUME

1 Cu. in. = 16.3872 cu. cm.  
 1 Cu. ft. = 0.0283 cu. m.  
 1 Cu. yd. = 0.7646 cu. m.

1 Liter = 61.0250 cu. in.  
 1 Liter = 0.0353 cu. ft.  
 1 Liter = 0.2642 gal. (U.S.)  
 1 Liter = 0.0284 gal. (U.S.)

CAPACITY

1 Cu. in. = 0.0164 liter  
 1 Cu. ft. = 28.3162 liters  
 1 Gal. = 3.7853 liters  
 1 Bu. = 35.2383 liters

1 MM. = 0.0394 in.  
 1 CM. = 0.3937 in.  
 1 Meter = 3.2808 ft.  
 1 Meter = 1.0936 yd.  
 1 Km. = 0.6214 mile

LENGTH

1 In. = 25.4000 mm.  
 1 In. = 2.5400 cm.  
 1 Ft. = 0.3048 m.  
 1 Yd. = 0.9144 m.  
 1 Mile = 1.6093 km.

MULTIPLE PREFIX  
 1000000 mega  
 1000 kilo  
 100 hecto  
 10 deka

METRIC PREFIX

MULTIPLE 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)

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

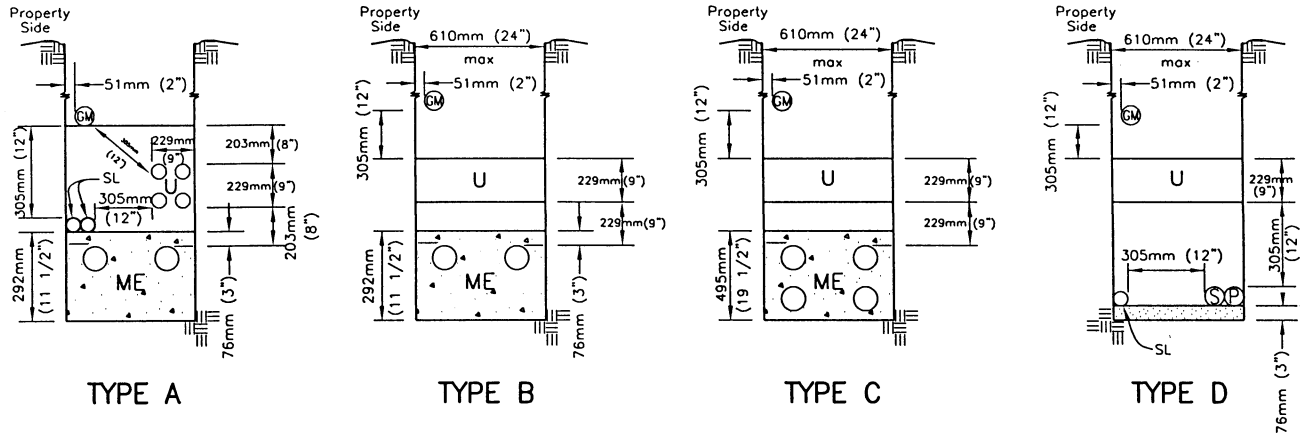
METRIC EQUIVALENTS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **M-14**

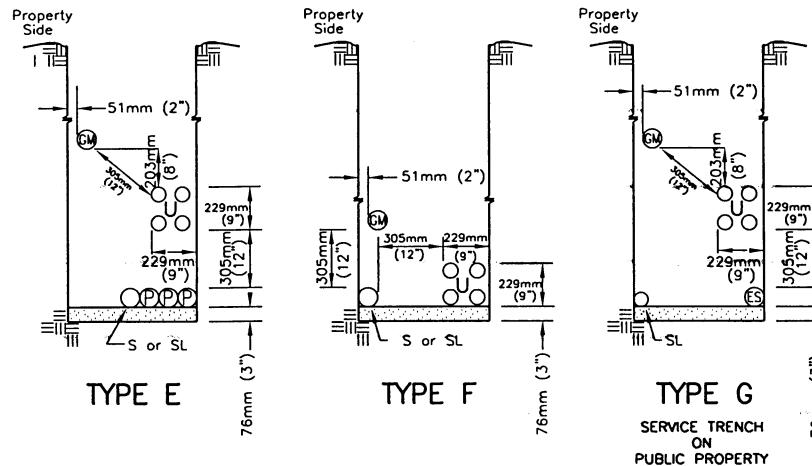


TYPE A

TYPE B

TYPE C

TYPE D



TYPE E

TYPE F

TYPE G

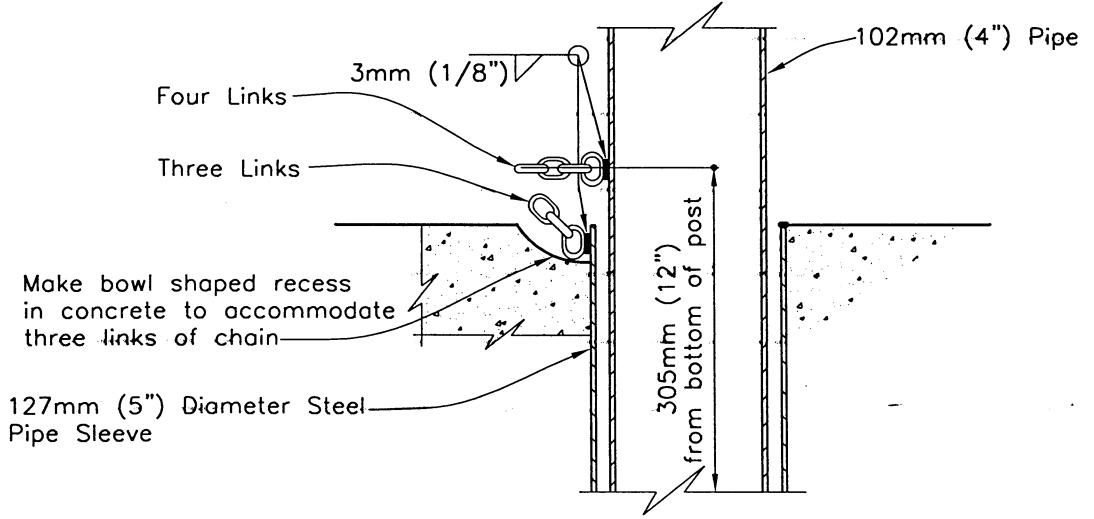
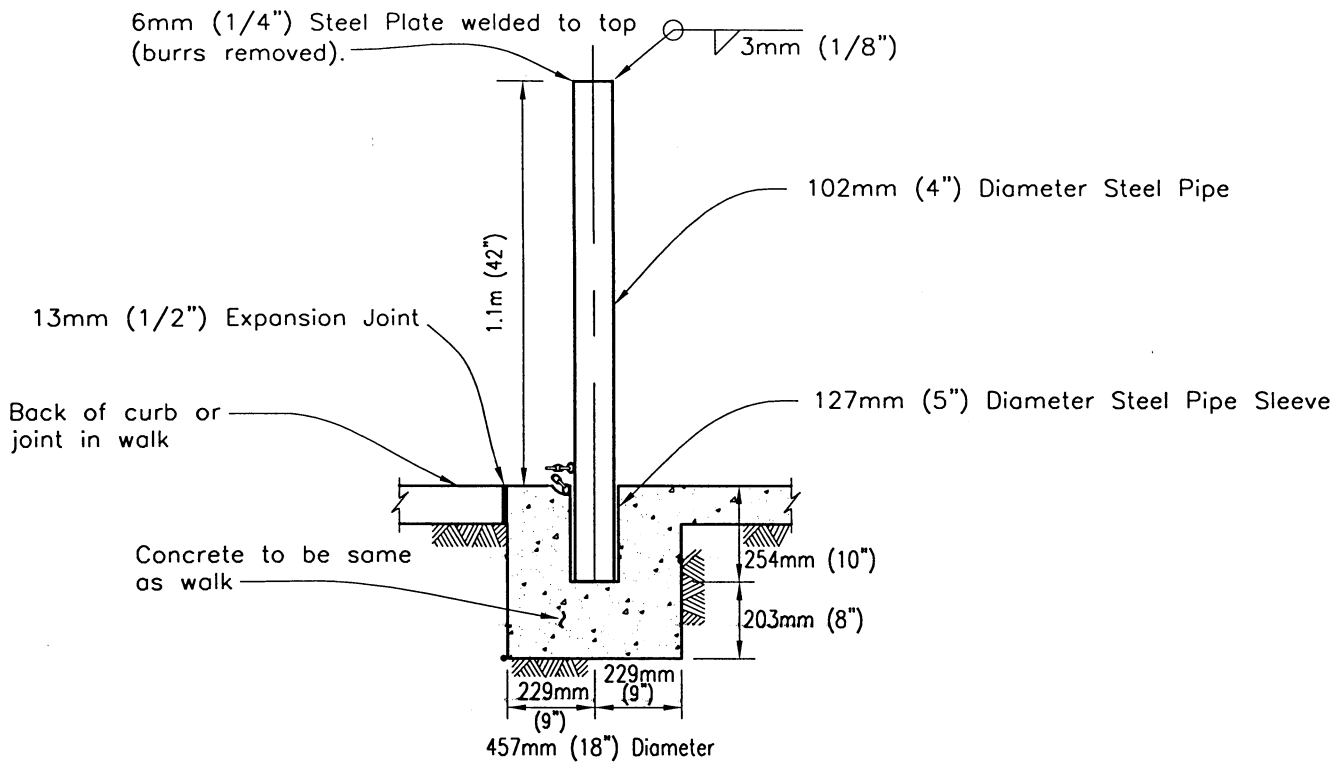
SERVICE TRENCH  
ON  
PUBLIC PROPERTY

	Legend	Minimum Cover
GM	Gas Main	762mm (30")
GS	Gas Service	762mm (30")
P	Primary Electric	1.1m (42")
S	Secondary Electric	762mm (30")
ES	Electric Service	762mm (30")
ME	Multiple Electric (P, S or ES in Spacers) Concrete Encased	610mm (24")
SL	Street Light (not series)	762mm (30")
U	CATV TELCO	610mm (24")

**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.

Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>	<b>JOINT TRENCH LOCATIONS</b>	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE	
ORIGINAL		Parkinson	9/88			<i>T. Stanton</i> 3/11/2003	
Add Metric		T. Stanton	03/03				Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06				DRAWING NUMBER <b>M-15</b>



HASP DETAIL

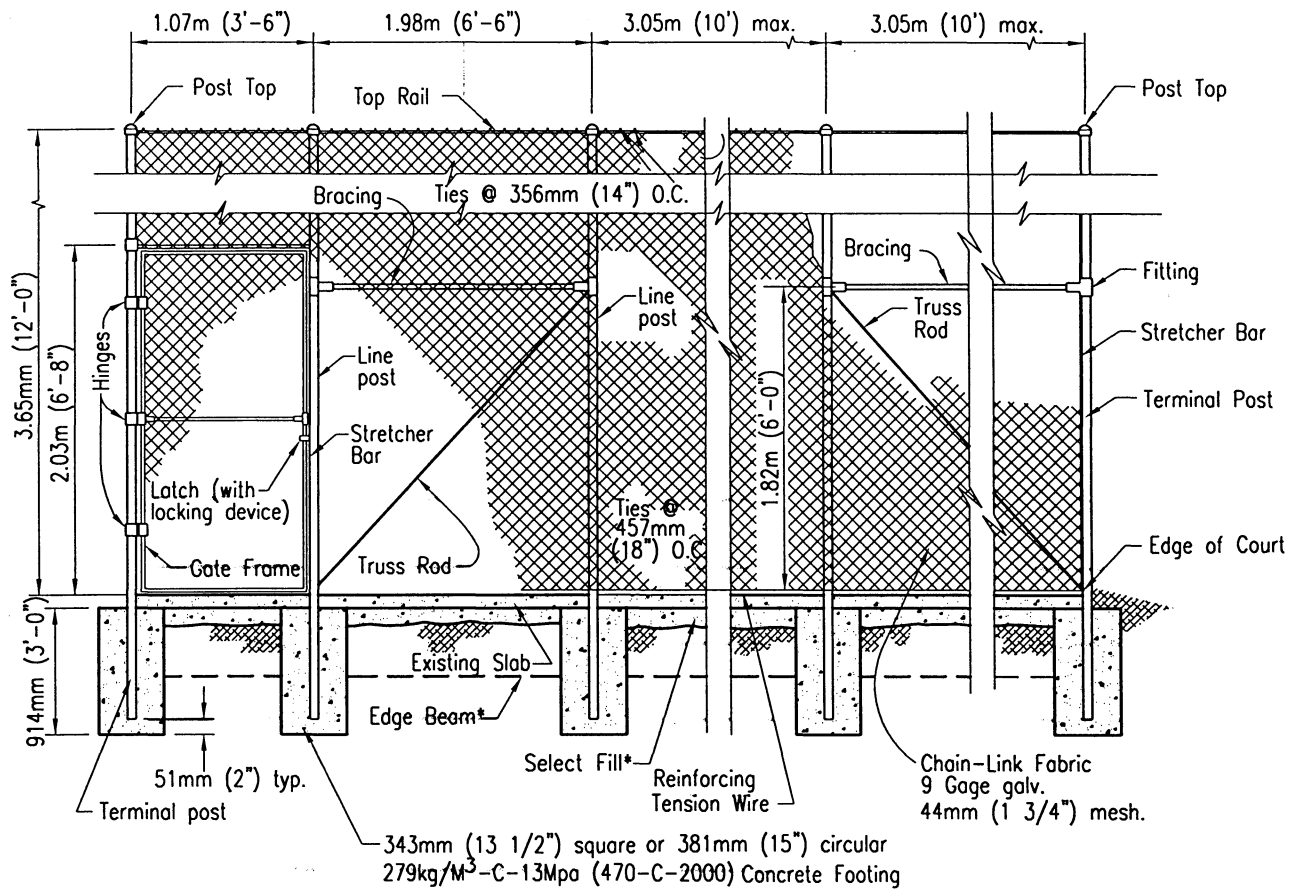
NOTES

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



Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE	
ORIGINAL		Solomon	7/79		<b>DEMOUNTABLE POST</b>	<i>T. Stanton</i> 310112003
Add Metric		T. Stanton	03/03			Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06	DRAWING NUMBER <b>M-16</b>		



\* For Edge Beam, Slab, and Select Fill details, see plans.

**ELEVATION**

DESCRIPTION	MIN. SIZE IN KILOGRAMS / (INCHES)	MIN. WEIGHT PER LIN FT IN KILOGRAMS / (LBS).
Line Post	60mm (2.375) O.D.	1.65kg (3.65)
Terminal Post	73mm (2.875) O.D.	2.63kg (5.79)
Top Rail	42mm (1.660) O.D.	1.03kg (2.27)
Bracing	42mm (1.660) O.D.	1.03kg (2.27)
Gate Frame	42mm (1.660) O.D.	1.03kg (2.27)

**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.

Revision	By	Approved	Date
ORIGINAL		Solomon	7/79
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

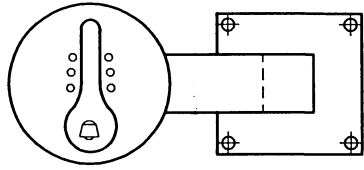
**SAN DIEGO REGIONAL STANDARD DRAWING**

**TENNIS COURT FENCE  
CHAIN LINK**

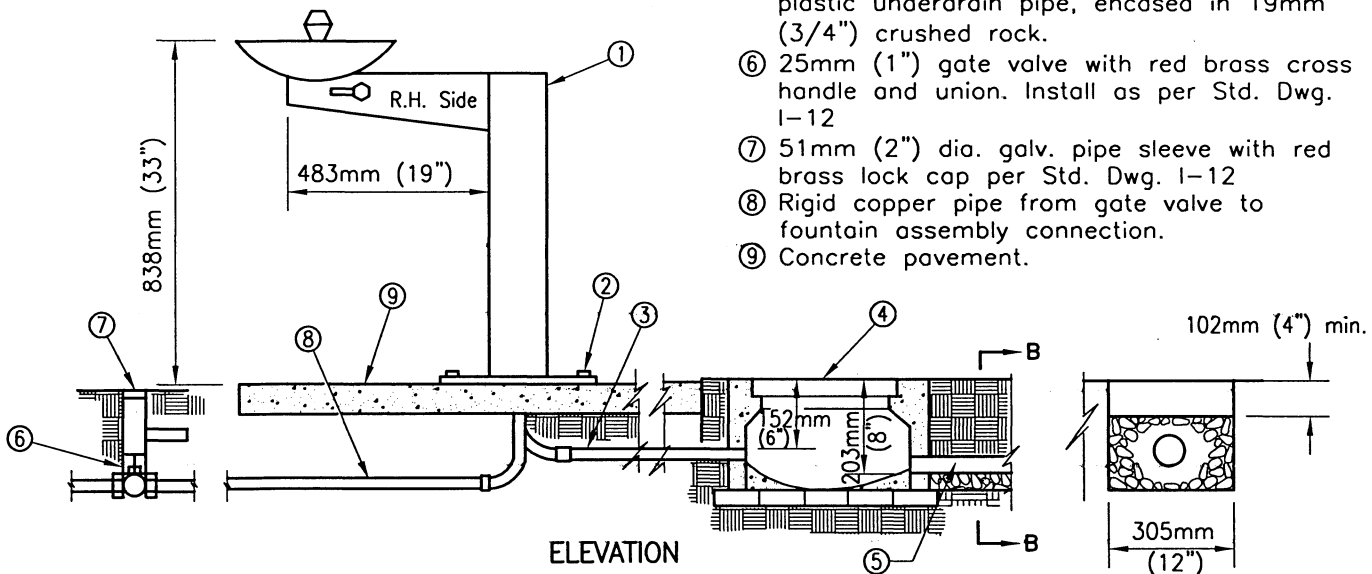
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **M-17**

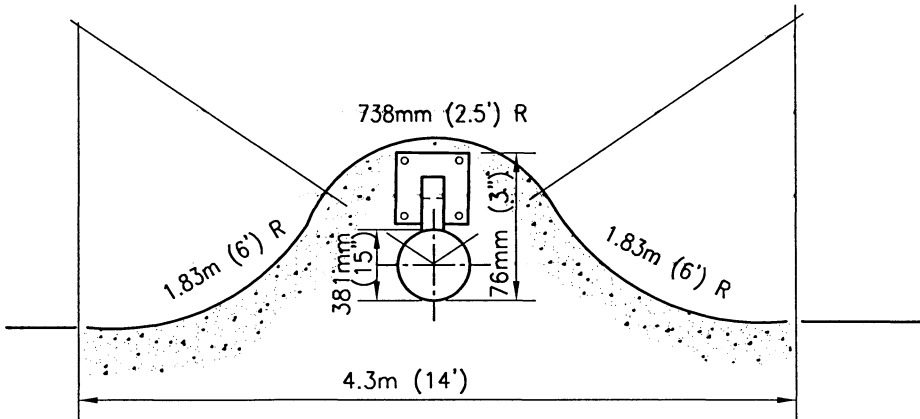


- ① Drinking Fountain – Haws model 3376 or approved equal.
- ② 10mm (3/8") dia. Expansion anchors with flat (recessed heads) screws 4 places.
- ③ 32mm (1 1/4") P.V.C. pipe with sweep 90° ell connection to fountain drain.
- ④ 241mm (9 1/2") x 406mm (16") concrete yard box with hinged locking top (Brooks 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.



ELEVATION

SECTION B-B



PLAN

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.

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		H. Hecht	10/82
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

DRINKING FOUNTAIN

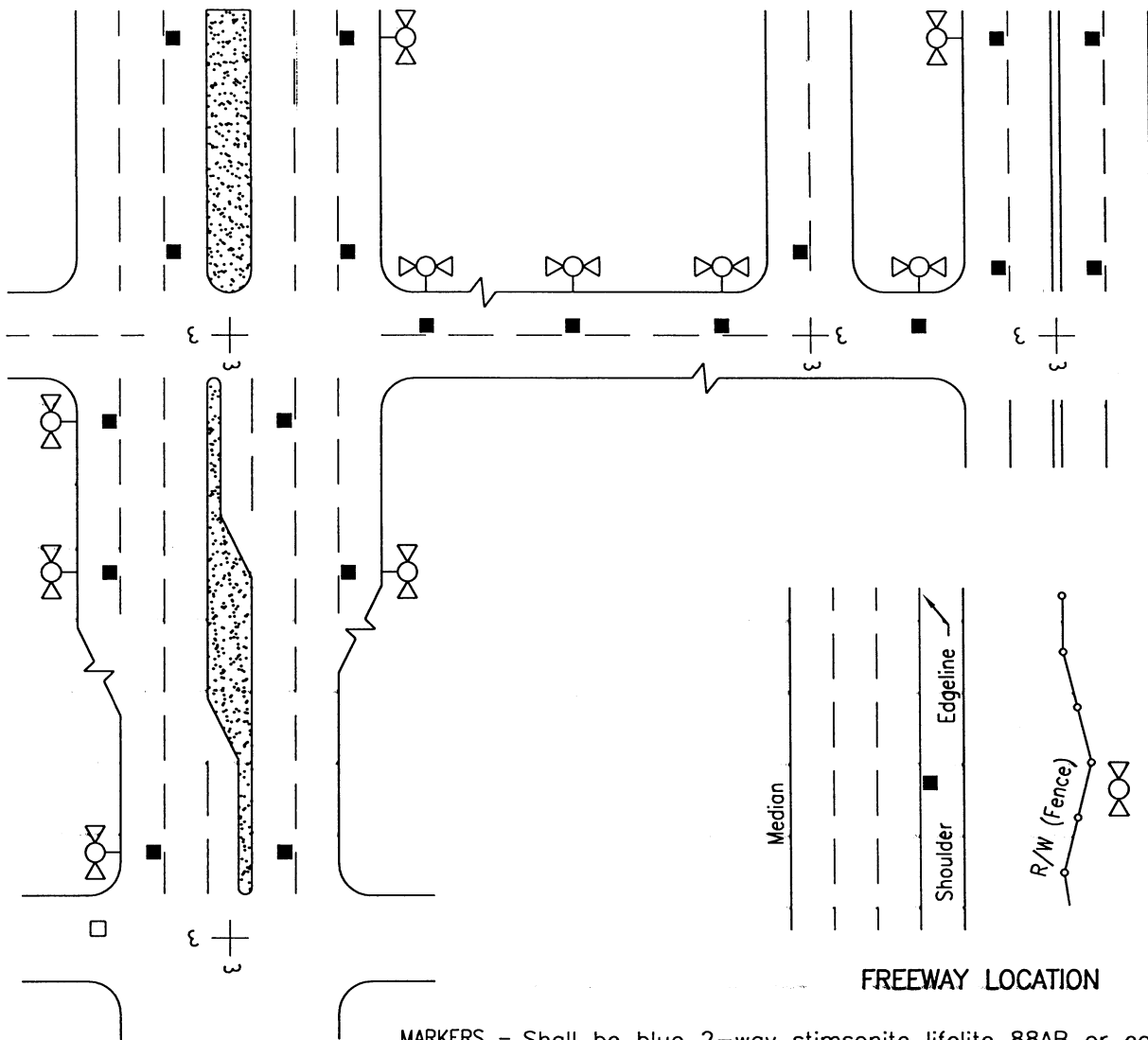
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 310112003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **M-18**

**STREET LOCATIONS**

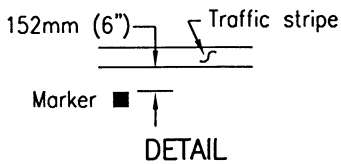


**FREEWAY LOCATION**

**MARKERS** - Shall be blue 2-way stimsonite lifelite 88AB 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.

**LEGEND ON PLANS**

- Marker ■
- Fire Hydrant ⊗

Revision	By	Approved	Date
ORIGINAL		H. Hecht	10/82
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

**SAN DIEGO REGIONAL STANDARD DRAWING**

**FIRE HYDRANT MARKERS**

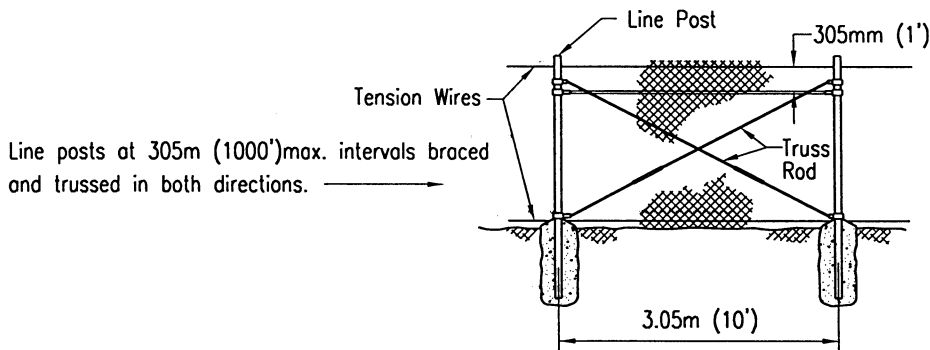
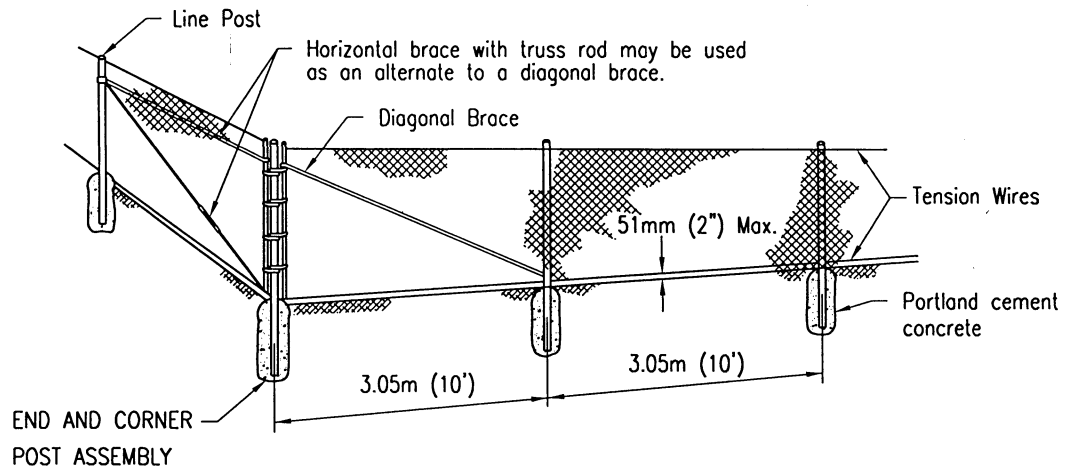
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/11/2003

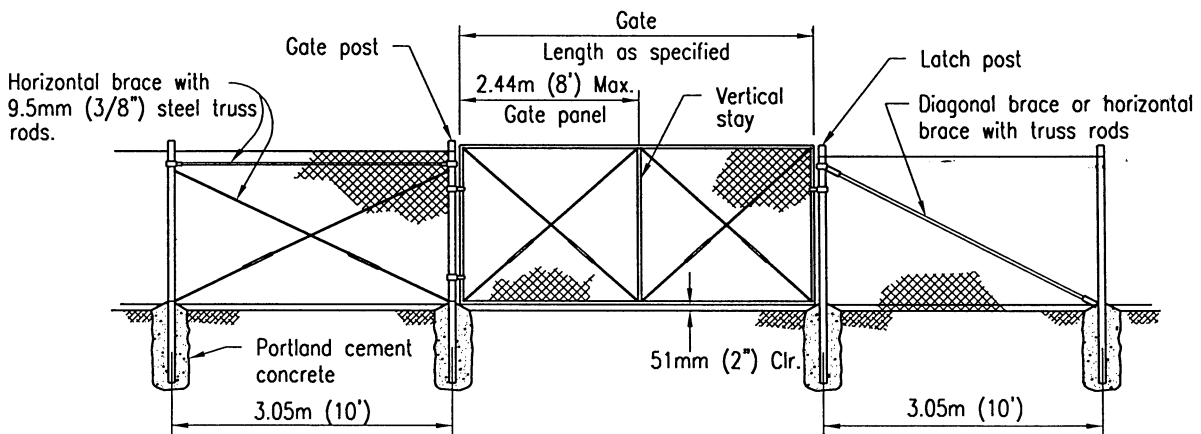
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **M-19**





LINE POST BRACING



GATE ASSEMBLY

Revision	By	Approved	Date
ORIGINAL		Bahmanian	4/86
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

CHAIN LINK FENCE  
DETAILS

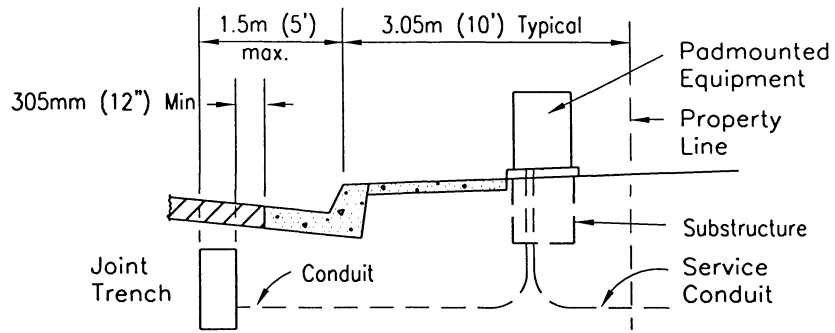
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

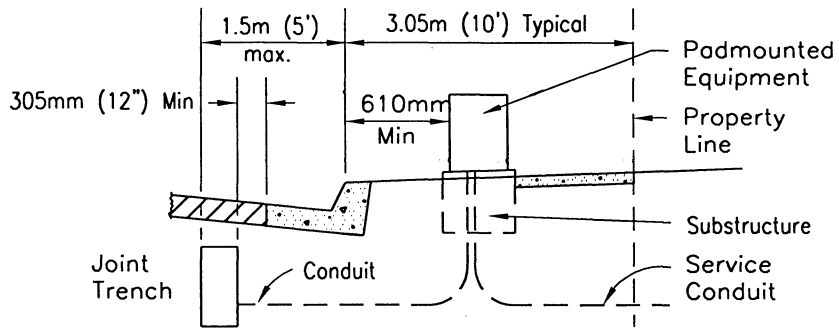
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER

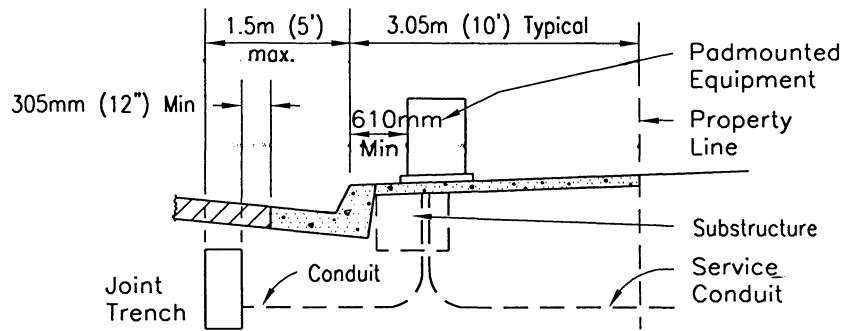
M-20



SIDEWALK NEXT TO CURB



SIDEWALK NEXT TO PROPERTY LINE



SIDEWALK NEXT TO CURB AND PROPERTY LINE

**NOTES**

1. Sidewalk shall have a minimum of 1.2m (4') clear area (path, not including curb) passing pedestals, pullboxes and other structures.
2. See Standard Drawing M-15 for joint trench.

Revision	By	Approved	Date
ORIGINAL		Parkinson	9/88
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

**SAN DIEGO REGIONAL STANDARD DRAWING**

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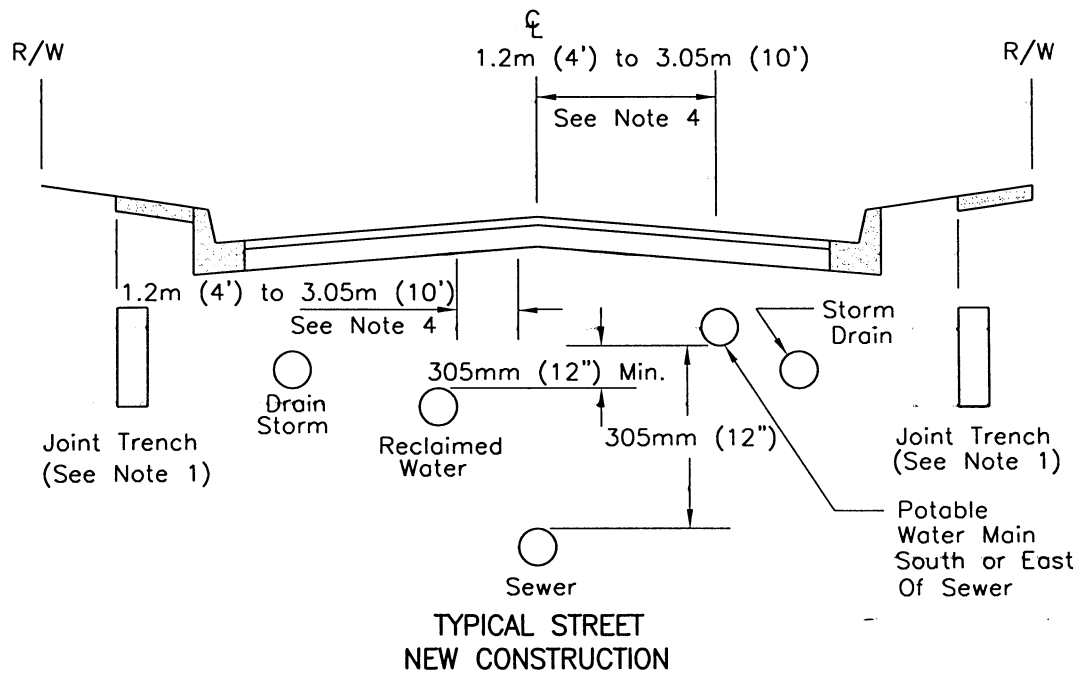
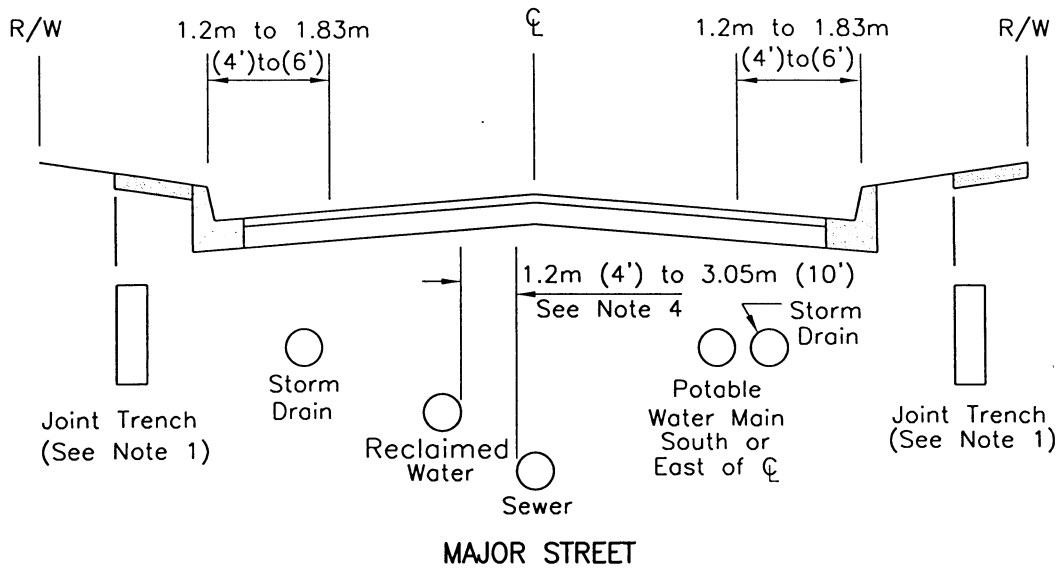
**UNDERGROUND TYPICAL LOCATION  
CONVERSION/REPLACEMENT/UPGRADE**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **M-21**



**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.

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

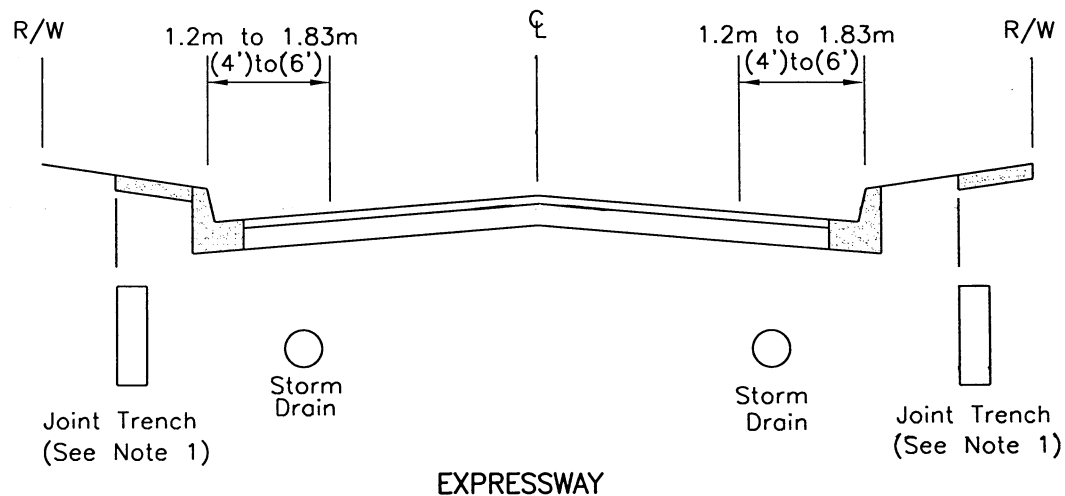
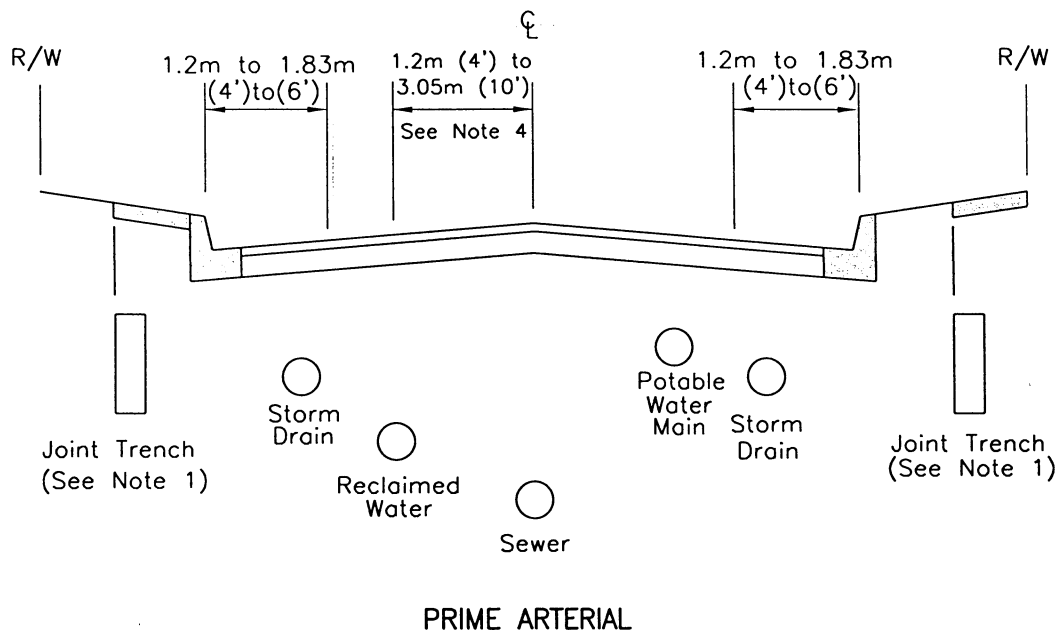
**SAN DIEGO REGIONAL STANDARD DRAWING**

**UTILITY LOCATIONS  
LOCAL AND MAJOR STREETS**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/10/2003  
Chairperson R.C.E. 19246 Date

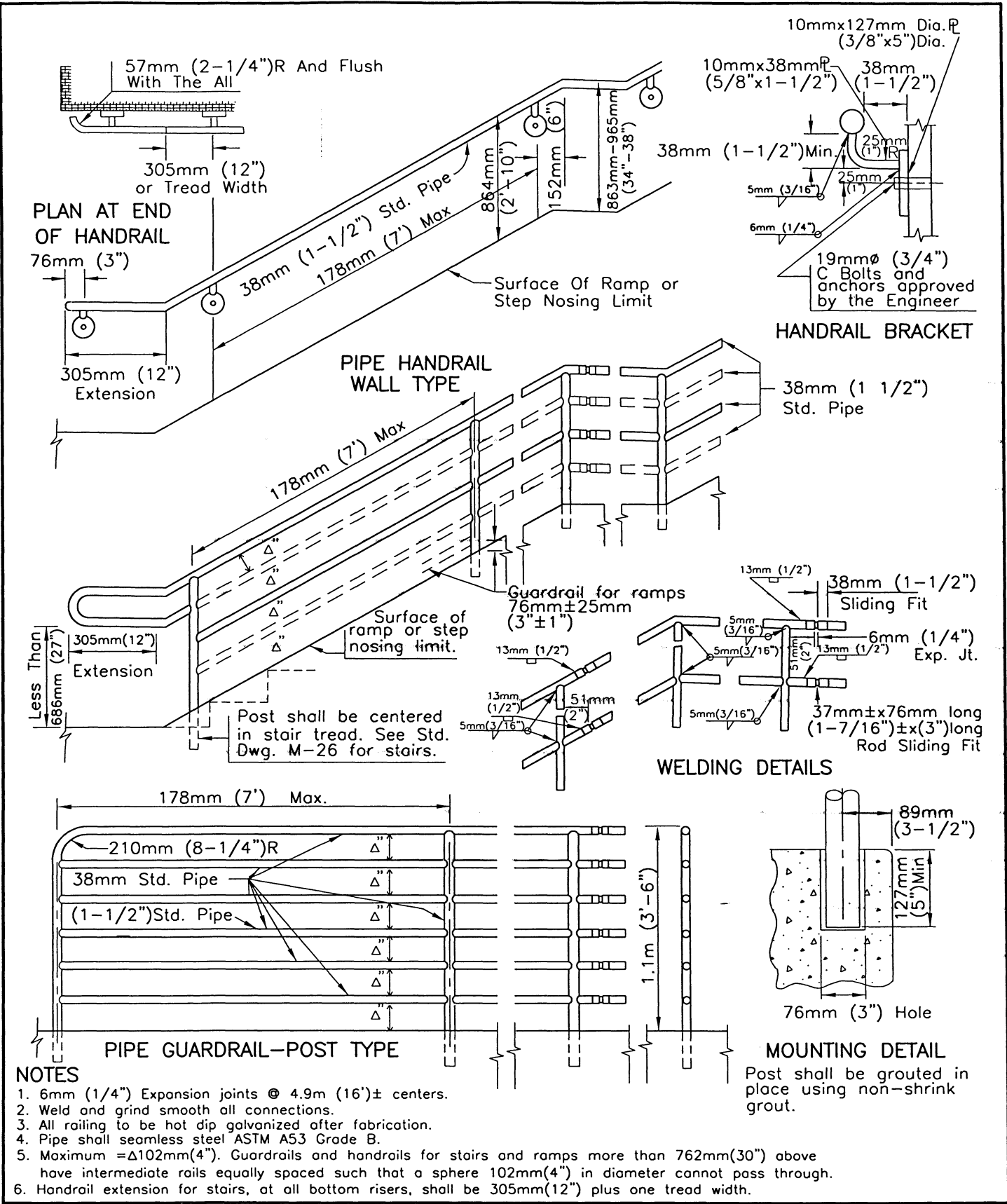
DRAWING NUMBER **M-22**



**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.

Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE	
ORIGINAL		G.Parkinson	2/95		<b>UTILITY LOCATIONS PRIME ARTERIALS AND EXPRESSWAYS</b>	<i>T. Stanton</i> 3/10/2003
Add Metric		T. Stanton	03/03	Chairperson R.C.E. 19246 Date		
Reviewed		T. Stanton	04/06	DRAWING NUMBER		<b>M-23</b>



**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.

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

**SAN DIEGO REGIONAL STANDARD DRAWING**

**PEDESTRIAN PROTECTIVE RAILING**

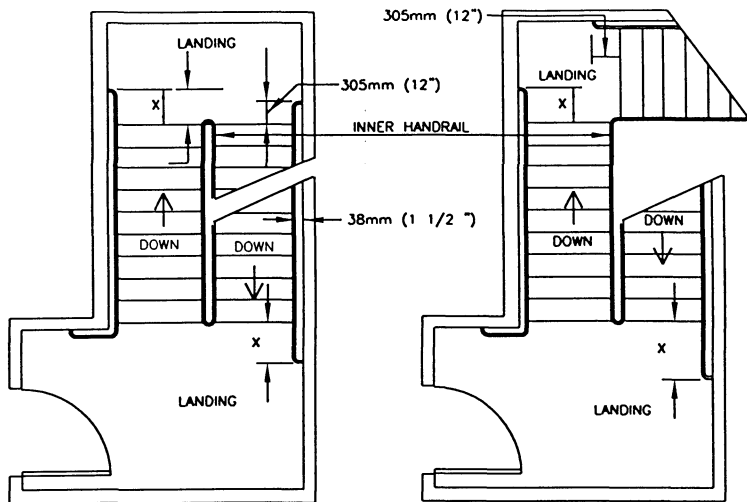
**DETAILS No. 1**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 310112003

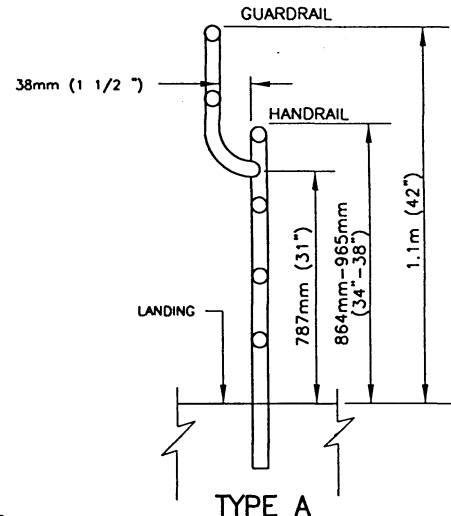
Chairperson R.C.E. 19246 Date

**DRAWING NUMBER M-24**

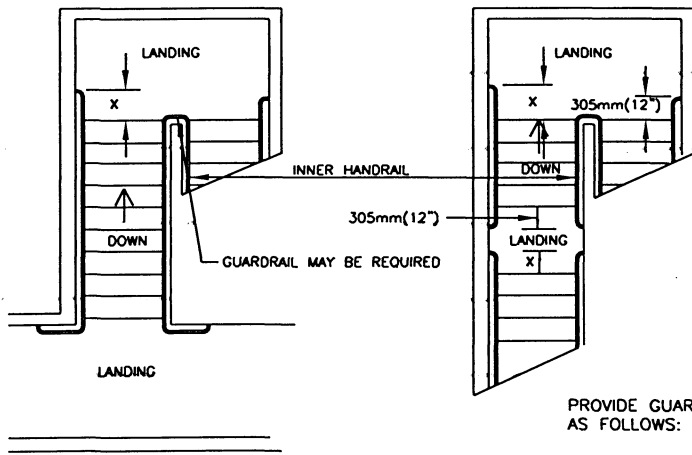


X IS THE MINIMUM HANDRAIL EXTENSION OF 12 INCHES PLUS THE WIDTH OF ONE TREAD AT EACH BOTTOM RISER.

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.



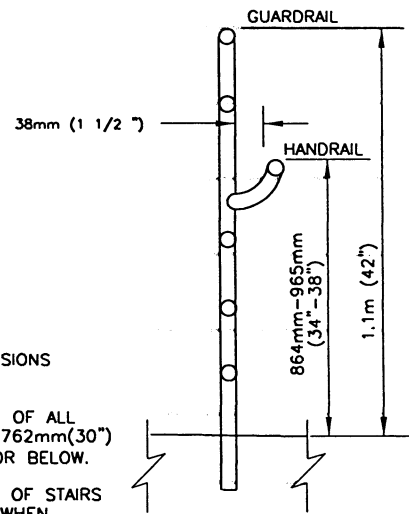
TYPE A  
GUARDRAIL EXTENSION



STAIR HANDRAILS

PROVIDE GUARDRAIL EXTENSIONS AS FOLLOWS:

1. TYPE A ON OPEN SIDE OF ALL LANDINGS MORE THAN 762mm(30") ABOVE GRADE OR FLOOR BELOW.
2. TYPE B ON OPEN SIDE OF STAIRS (INCLUDING LANDINGS) WHEN SPECIFIED.



TYPE B  
GUARDRAIL EXTENSION

NOTES

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.

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

SAN DIEGO REGIONAL STANDARD DRAWING

PEDESTRIAN PROTECTIVE RAILING  
DETAILS No. 2

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

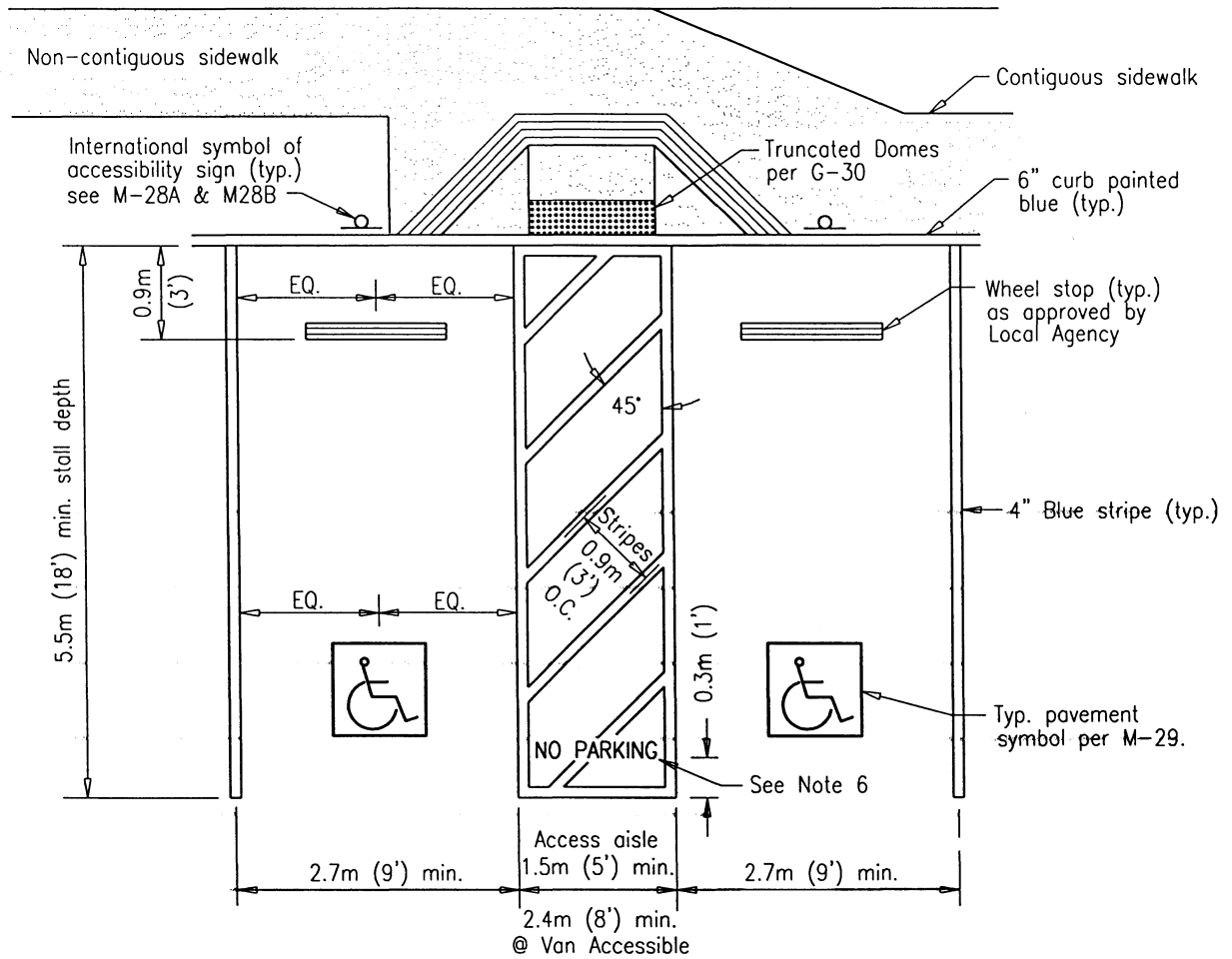
*T. Stanton* 3/10/2003

ChGirperson R.C.E. 19246 Date

DRAWING  
NUMBER

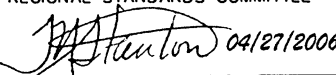
M-25



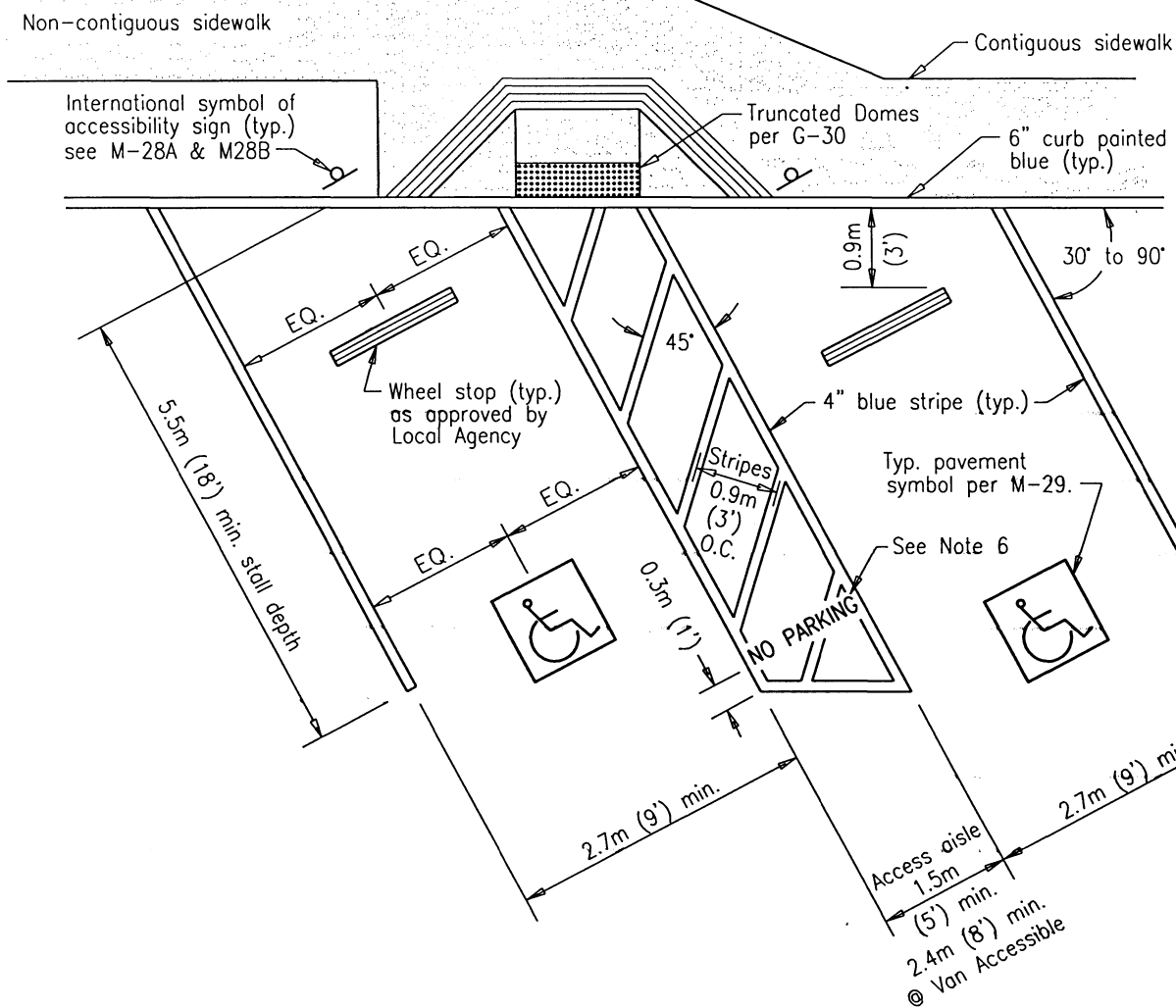


**NOTES:**

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.

Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Parkinson	02/95		
Add Metric		T.Stanton	03/03		
Update		D.Davis	04/06		
<b>DISABLED PARKING STALL(S)</b>				 04/27/2006 Chairperson R.C.E. 19246 Date	
				DRAWING NUMBER <b>M-27A</b>	





**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.

Revision	By	Approved	Date
ORIGINAL		G.Parkinson	02/95
Add Metric		T.Stanton	03/03
Update		D.Davis	04/06

**SAN DIEGO REGIONAL STANDARD DRAWING**

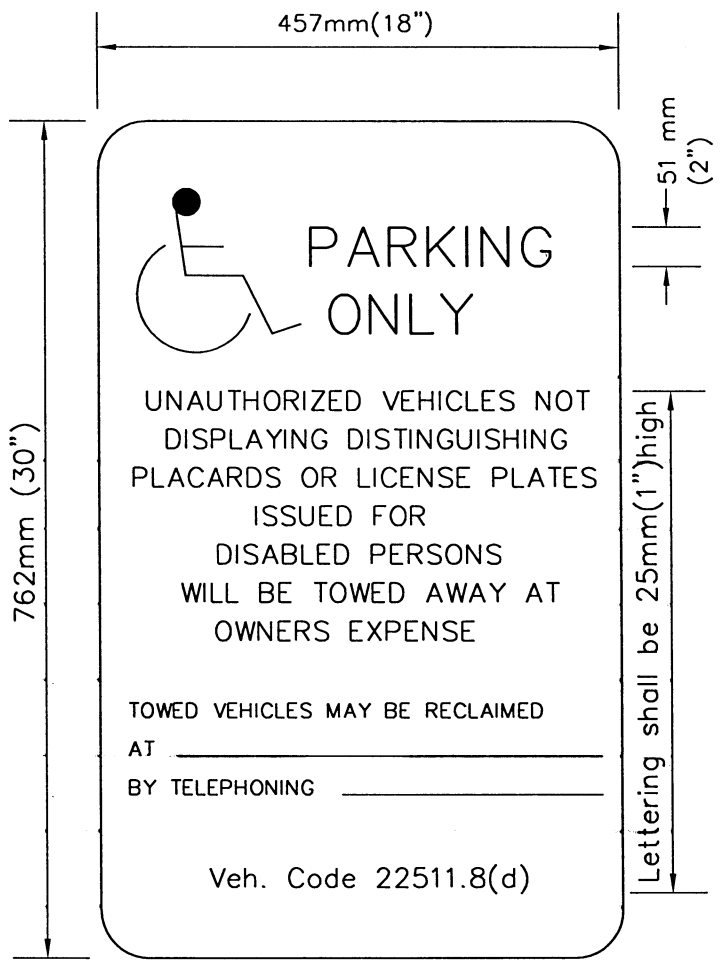
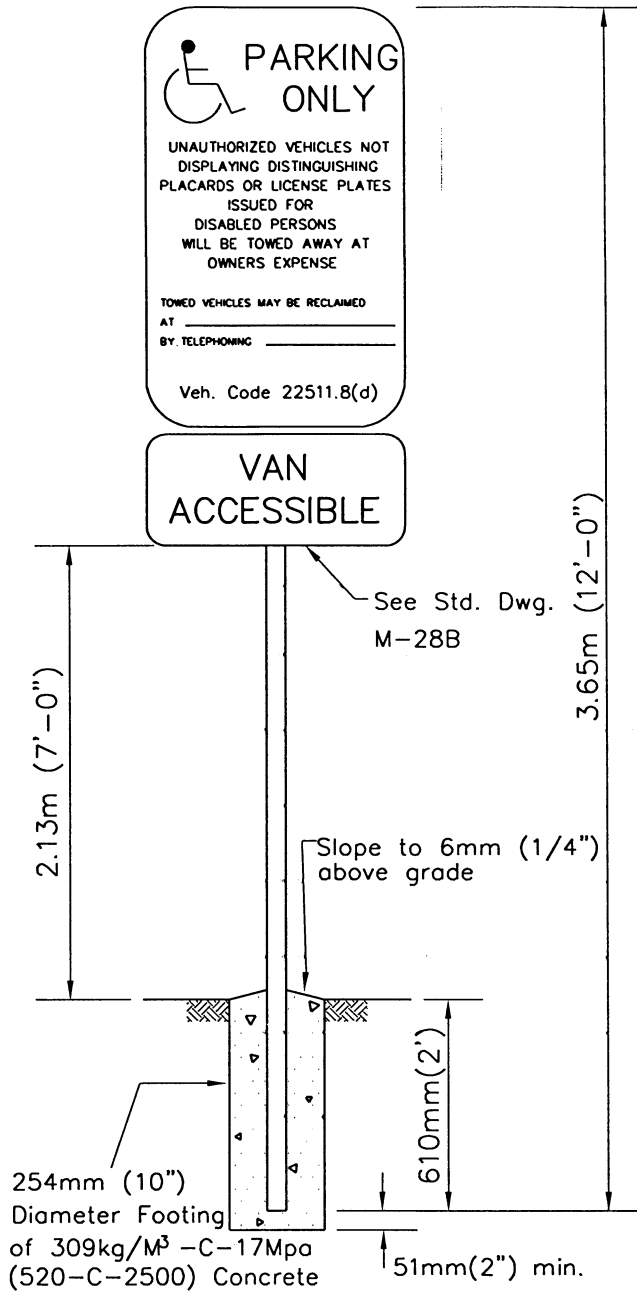
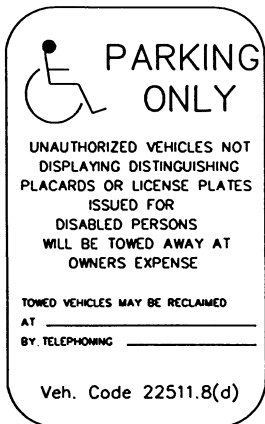
**DIAGONAL DISABLED PARKING  
STALL(S)**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 04/27/2006

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **M-27B**

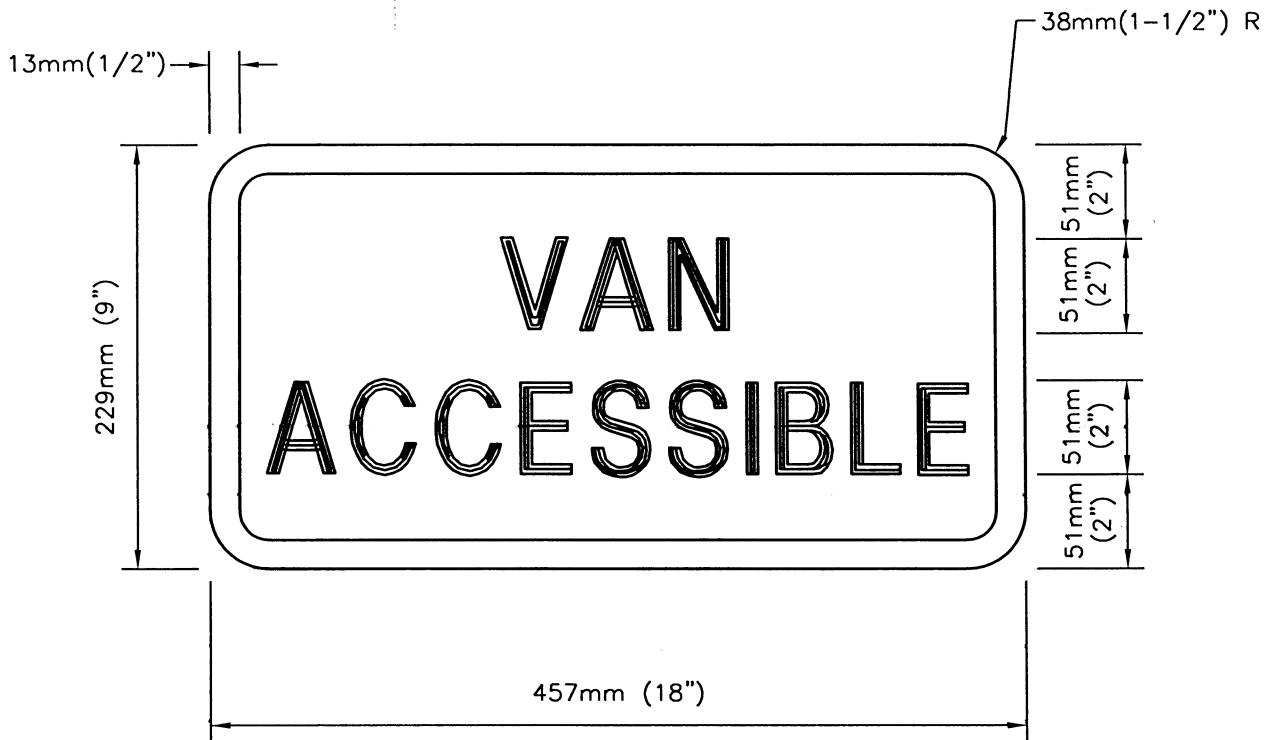


SIGN DETAIL

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").

Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE	
ORIGINAL		G.Parkinson	2/95		<b>DISABLED PARKING SIGN</b>	<i>T. Stanton</i> 310112003
Add Metric		T. Stanton	03/03			Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06			DRAWING NUMBER <b>M-28A</b>



**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.

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

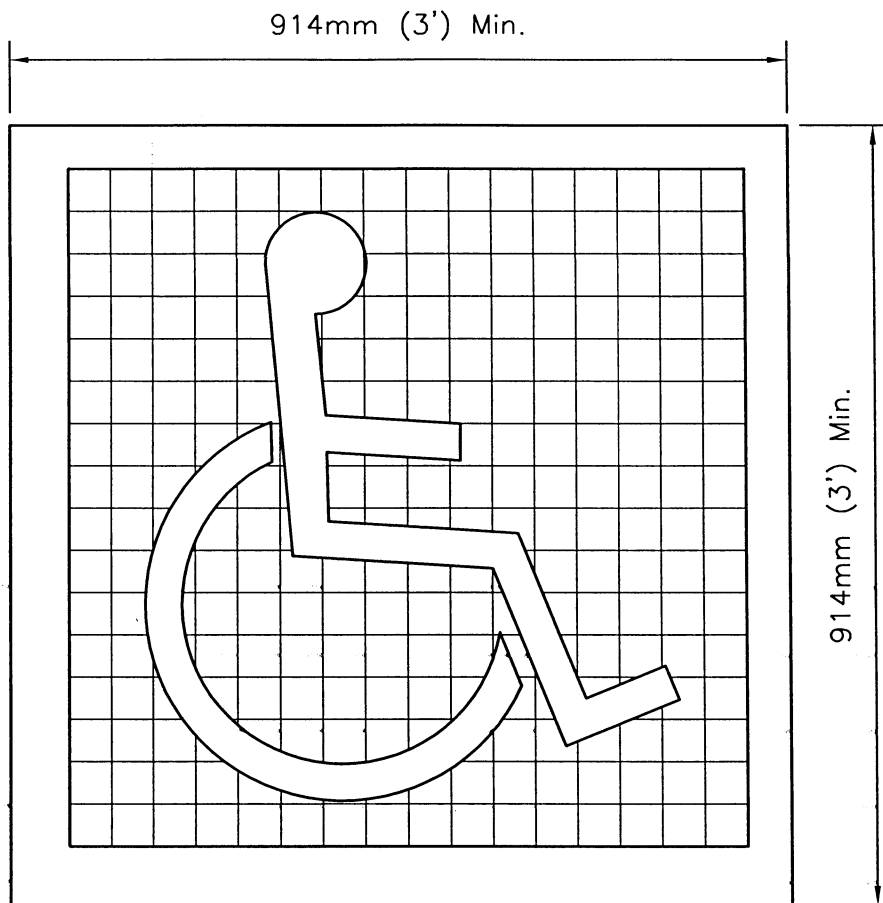
**SAN DIEGO REGIONAL STANDARD DRAWING**

**VAN ACCESSIBLE SIGN  
FOR DISABLED PARKING SPACE**

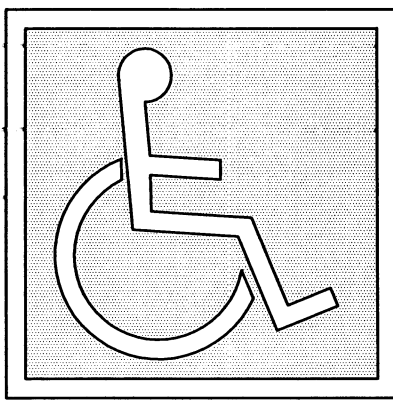
RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **M-28B**



(a) SYMBOL PROPORTIONS



← INTERNATIONAL SYMBOL OF ACCESSIBILITY

(b) DISPLAY CONDITIONS

**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.

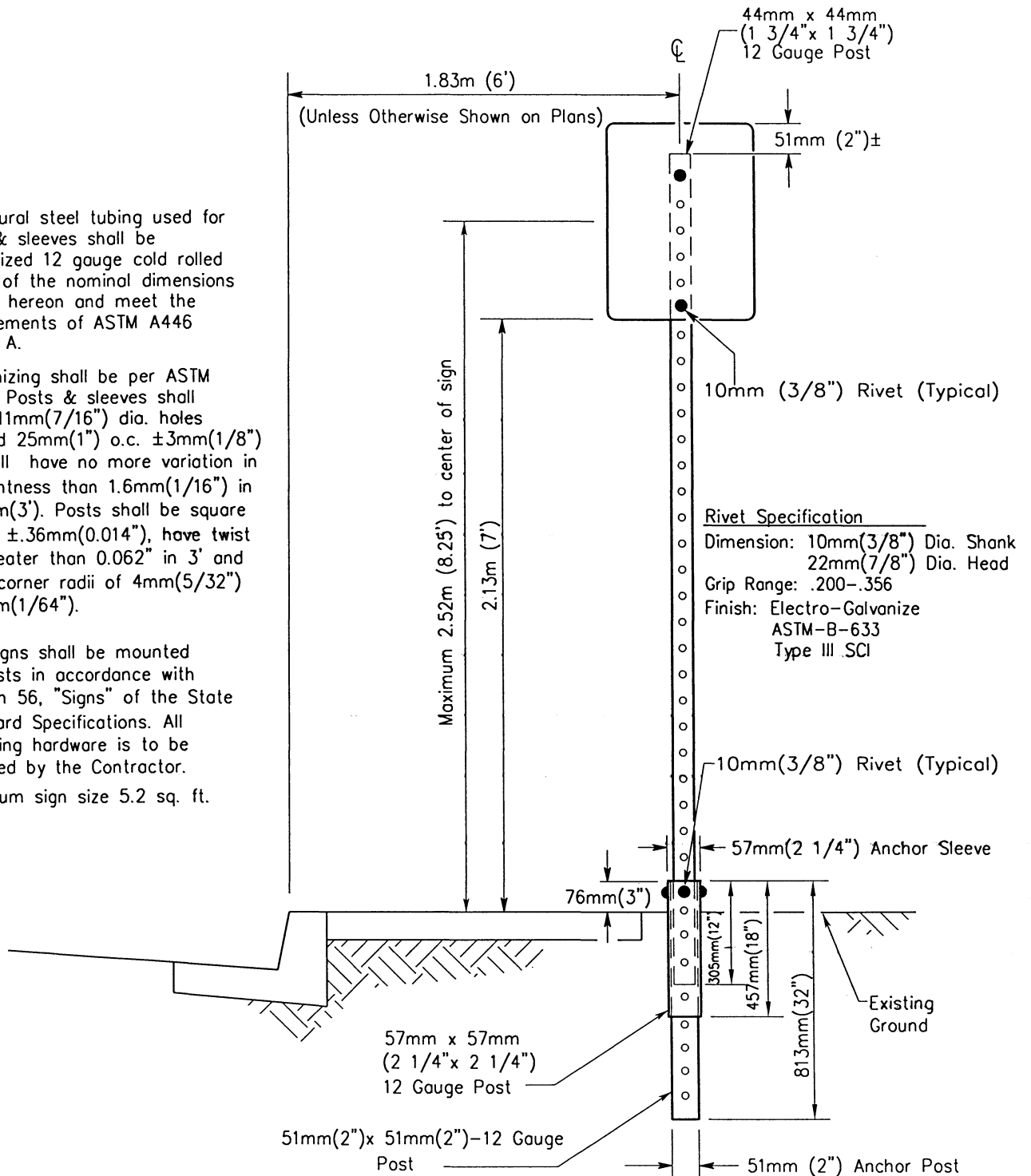
Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		G. Parkinson	2/95		<i>T. Stanton</i> 3/11/2003
Add Metric		T. Stanton	03/03	<b>PAVEMENT SYMBOL - DISABLED PARKING</b>	Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06		DRAWING NUMBER
					<b>M-29</b>

FOR GUARDRAIL STANDARDS USE:  
 Caltrans "Standard Plans for  
 Construction of Local  
 Streets and Roads"

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE	
ORIGINAL		G.Parkinson	5/92		GUARD RAIL REFERENCE NOTE	<i>T. Stanton</i> 04/27/2006
Add Metric		T. Stanton	03/03	Chairperson R.C.E. 19246 Date		
Remove GD Std. Dwgs.		T. Stanton	04/06	DRAWING NUMBER		<b>M-30</b>

**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.



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

**SAN DIEGO REGIONAL STANDARD DRAWING**

**BREAK-AWAY SIGN POST**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

Ch. G. R. C. E. 19246 Date

DRAWING NUMBER **M-45**

