

MISCELLANEOUS

M

MISCELLANEOUS

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.

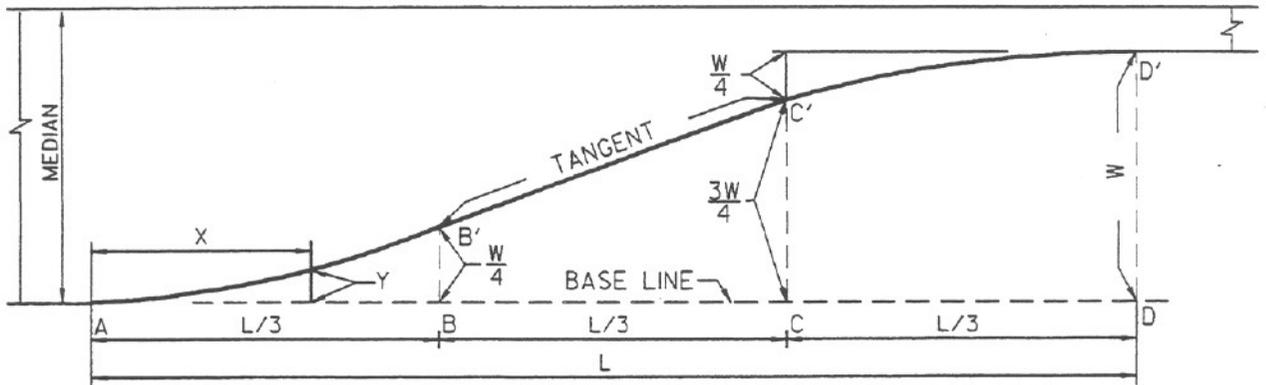
DRAWING M-24

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			<p align="center">SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ("M" SERIES)</p>	<p align="right"><i>R. L. L.</i> 12-9-03 Chairperson RCE 04572 Date</p>
NOTES		G. Parkinson	2-7-95				
NOTES	SM	Oskoui	12-9-03				
				DRAWING NUMBER	SDM-100		



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

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

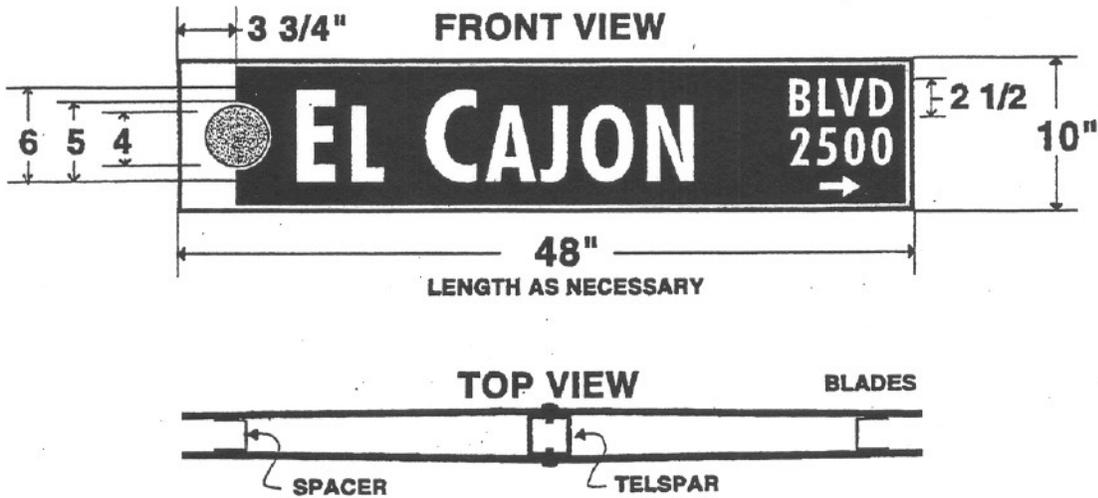
CITY OF SAN DIEGO - STANDARD DRAWING

CITY OF SAN DIEGO
 STANDARDS COMMITTEE

H. J. P. 2-9-95
 COORDINATOR R.C.E. 25902 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. Bob</i> 8/17/00 COORDINATOR DATE C-35390
ORIGINAL		J.P. CASEY	11/8/88		STREET NAME SIGN

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	CITY OF SAN DIEGO - STANDARD DRAWINGS	CITY OF SAN DIEGO STANDARDS COMMITTEE <i>Ken Kahr</i> 8/17/00 COORDINATOR DATE C-35390
ORIGINAL		J.P.CASEY	11-8-88		STREET NAME SIGN

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.

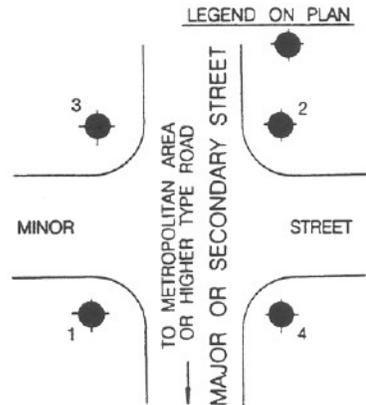
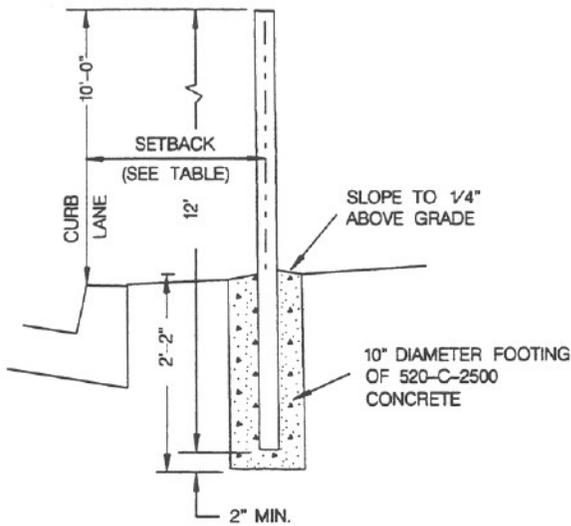
SHT. 3 OF 4

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

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

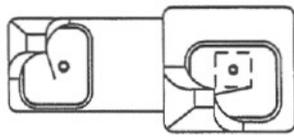
CITY OF SAN DIEGO
STANDARDS COMMITTEE

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

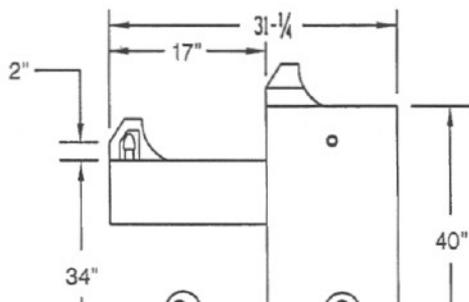
DRAWING NUMBER **SDM-102**

LEGEND:

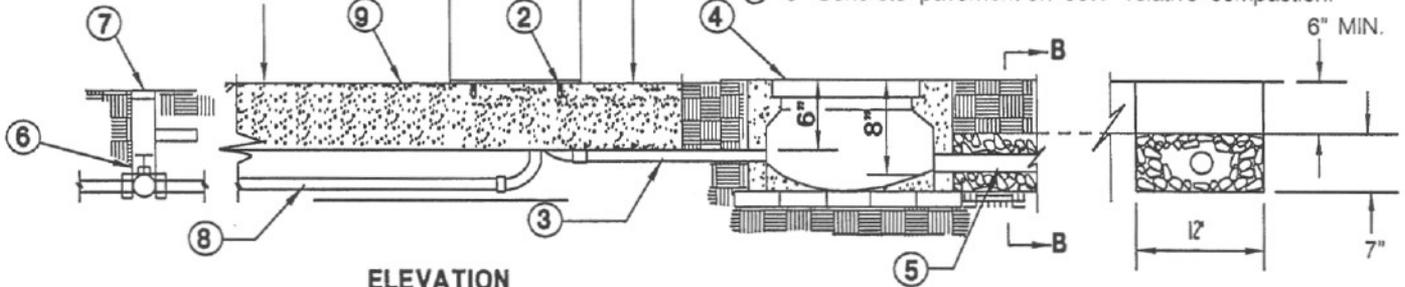
- ① Dual-height drinking fountain as approved by the Resident Engineer.
- ② 1/2" x 4" loop anchors and 1/2" x 1-1/2" bolts at all locations or per manufacturer's recommendation.
- ③ 1-1/4" P.V.C. pipe with sweep 90 ell connection to fountain drain.
- ④ 9-1/2" x 16" concrete yard box with hinged locking 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. Install as per Std. Dwg. SDI-102
- ⑦ 2" dia. galv. pipe sleeve with red brass lock cap per Std. Dwg. SDI-102
- ⑧ Rigid copper pipe from gate valve to fountain assembly connection.
- ⑨ 6" Concrete pavement on 90% relative compaction.



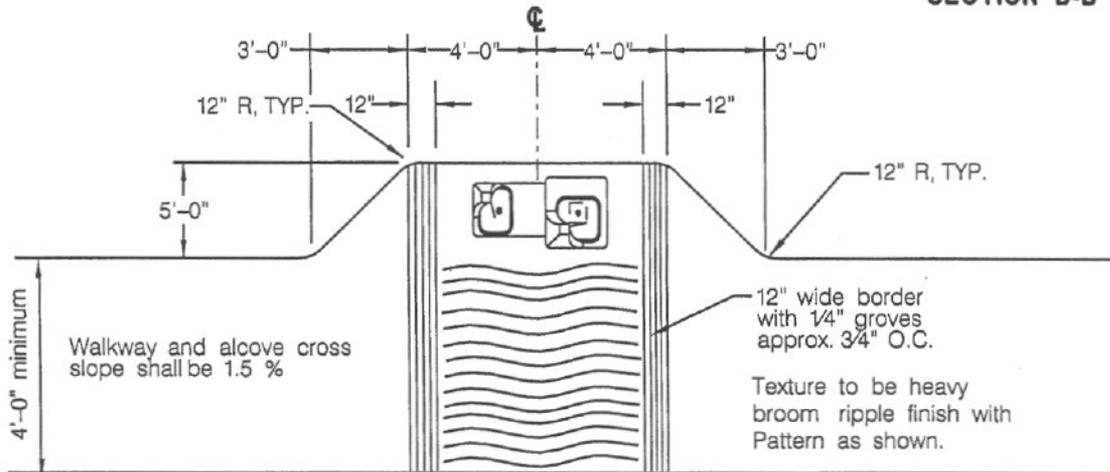
PLAN



ELEVATION



SECTION B-B



PLAN AT ALCOVE ALONG CONCRETE WALKWAY

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 required protective railing see Standard Drawing SDM-108.

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL	SM	Oskoui	12/03

CITY OF SAN DIEGO STANDARD DRAWING

CITY OF SAN DIEGO
STANDARDS COMMITTEE

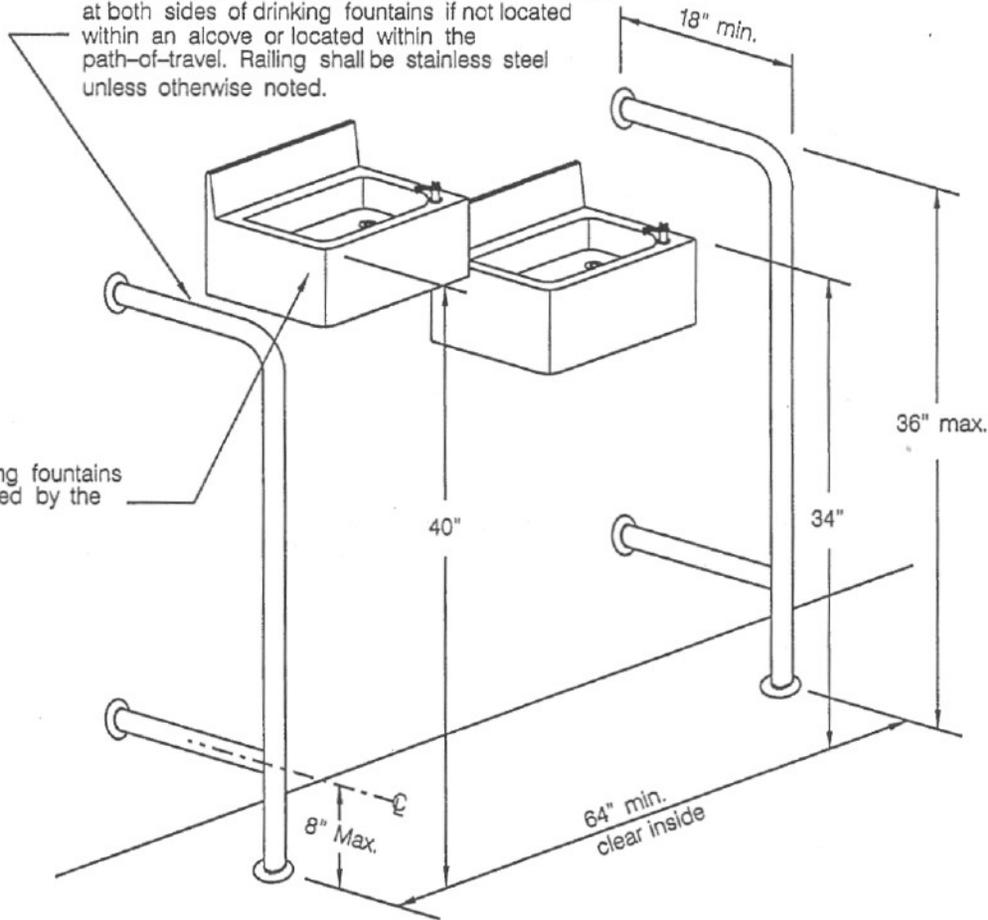
B. L. Li 12-9-03
Chairperson RCE 64572 Date

DRINKING FOUNTAINS

DRAWING NUMBER SDM-107

1 1/2" outside diameter railing wing walls required at both sides of drinking fountains if not located within an alcove or located within the path-of-travel. Railing shall be stainless steel unless otherwise noted.

Dual-height drinking fountains or as recommended by the manufacturer.



LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL	SM	Oskoui	12/03

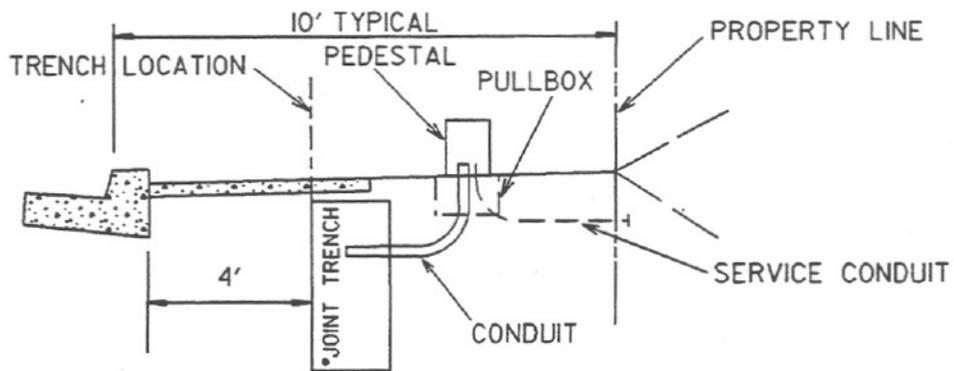
CITY OF SAN DIEGO STANDARD DRAWINGS

**WALL-MOUNTED DRINKING FOUNTAINS
WITH PROTECTIVE RAILING**

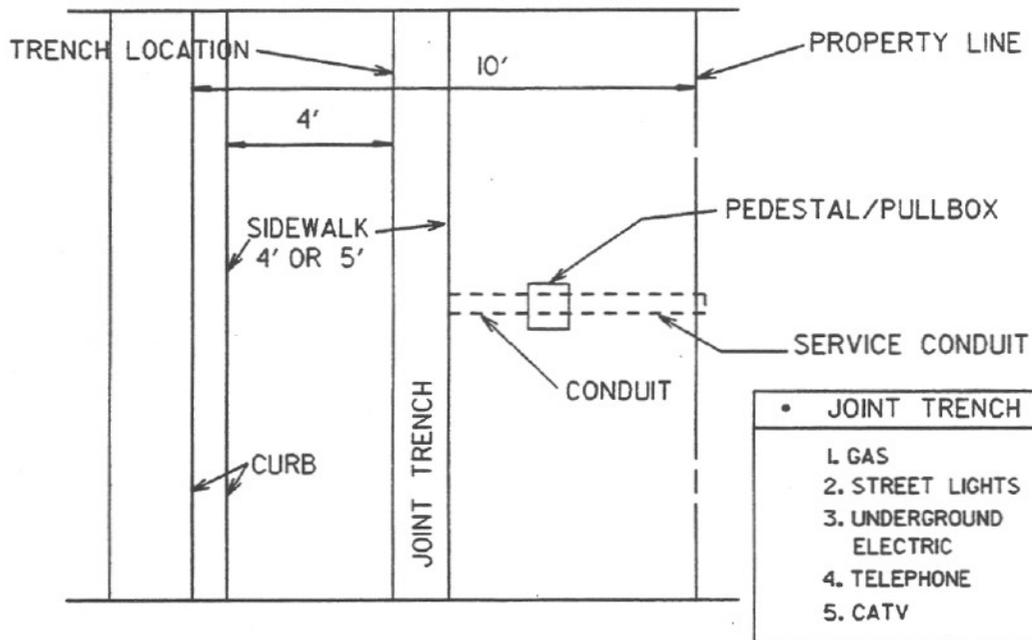
CITY OF SAN DIEGO
STANDARDS COMMITTEE

B. L. H. 12-2008
Chairperson RCE 64572 Date

DRAWING NUMBER **SDM-108**



SECTION VIEW



- | | |
|----|----------------------|
| • | JOINT TRENCH |
| 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.

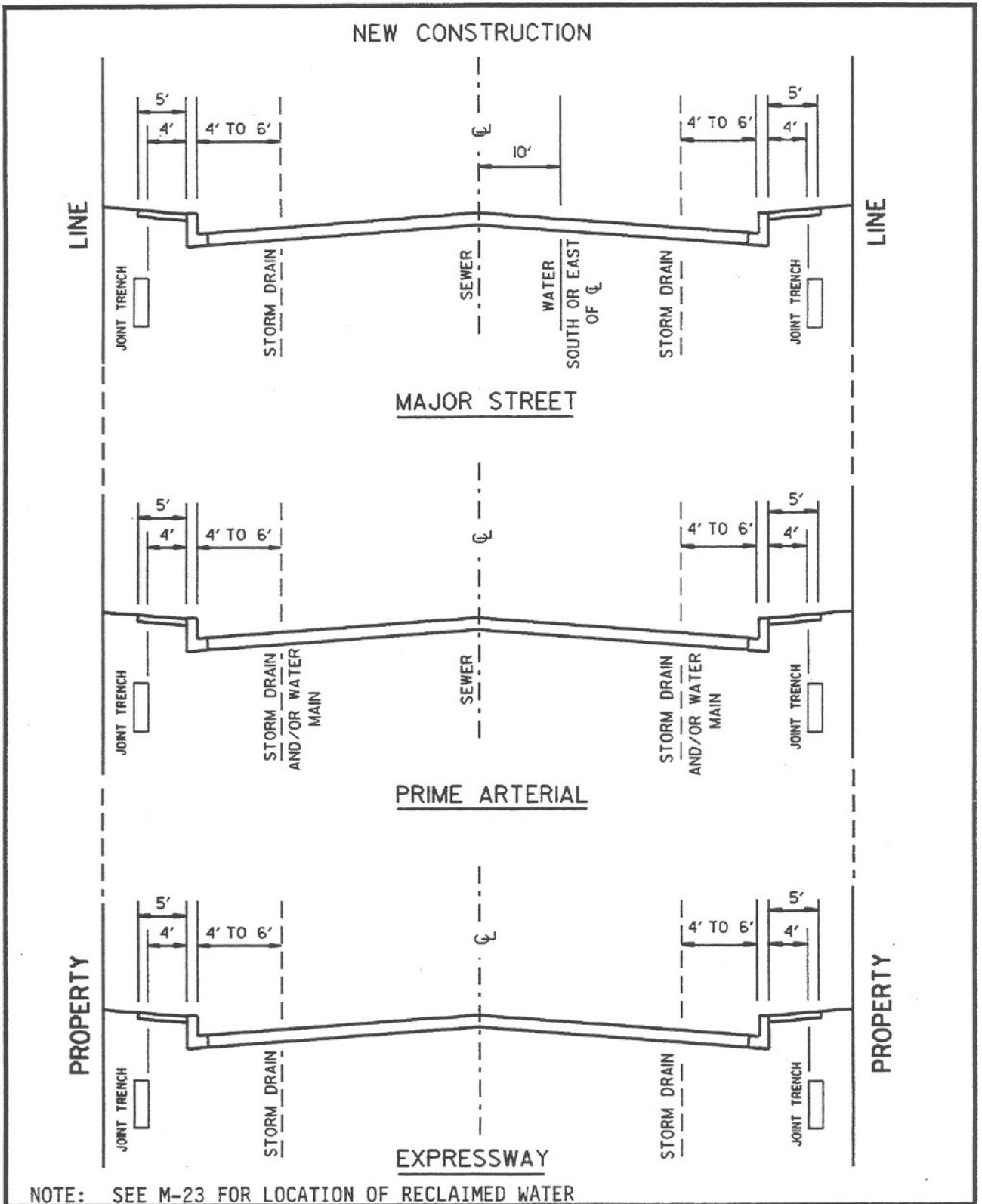
Revision	By	Approved	Date
ORIGINAL		J.P. Casey	8-3-85

CITY OF SAN DIEGO - STANDARD DRAWING

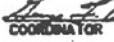
UNDERGROUND TYPICAL LOCATION
NEW CONSTRUCTION

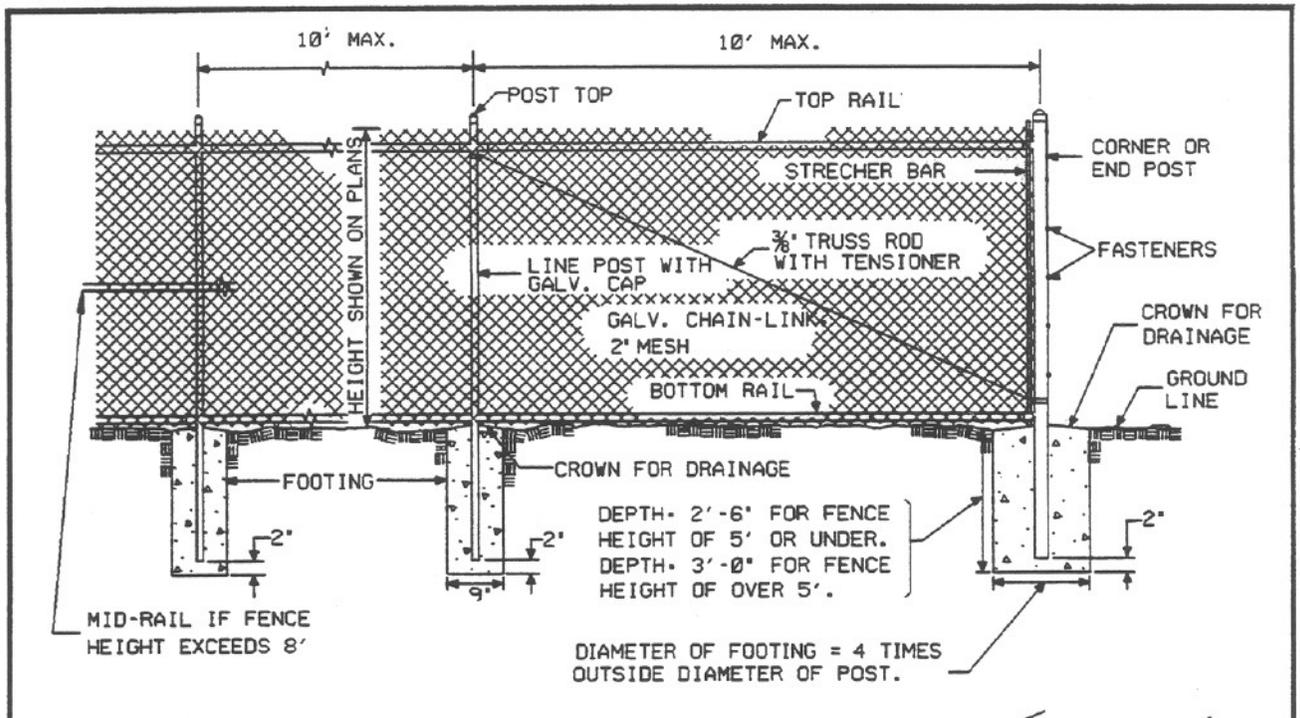
CITY OF SAN DIEGO
STANDARDS COMMITTEE
[Signature] 2-7-95
COORDINATOR R.C.E. 25902 DATE

DRAWING NUMBER **SDM-109**



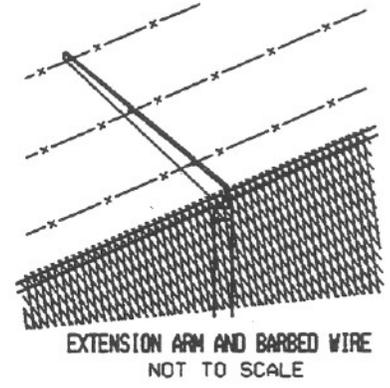
NOTE: SEE M-23 FOR LOCATION OF RECLAIMED WATER

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL		J.P. Casey	9-28-85		
				UTILITY LOCATIONS IN MAJOR STREETS PRIME ARTERIALS AND EXPRESSWAYS	 2-7-95 COORDINATOR R.C.E. 25902 DATE



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

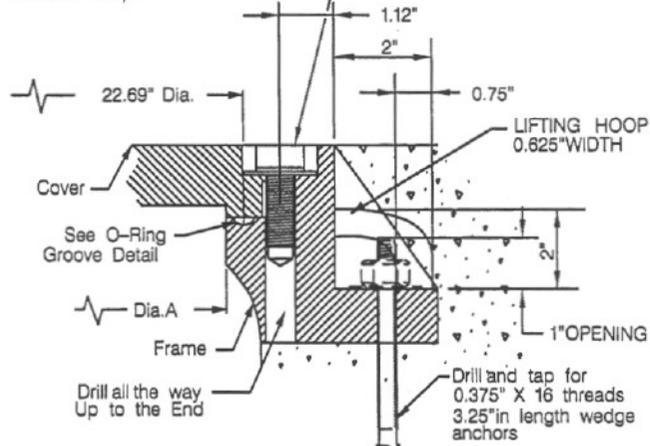
CITY OF SAN DIEGO - STANDARD DRAWING

VINYL COATED CHAIN LINK FENCE

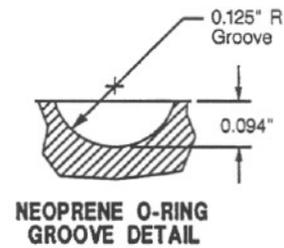
CITY OF SAN DIEGO
STANDARDS COMMITTEE
James J. [Signature] 2-7-95
COORDINATOR R.C.E. 25802 DATE

DRAWING NUMBER **SDM-112**

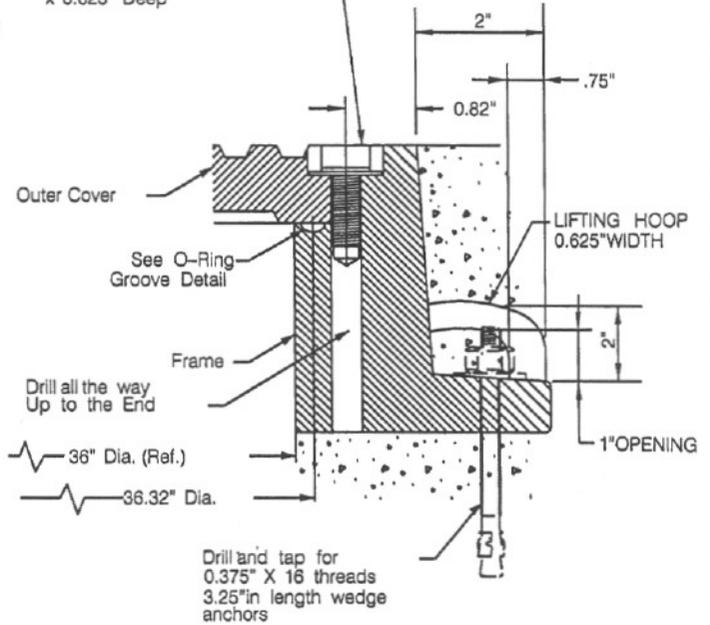
Drill and tap for 0.625" X 20
Penta Bolt SS UNC Thread,
1.50" Deep Cbore 1.625" Dia.
X 0.625" Deep



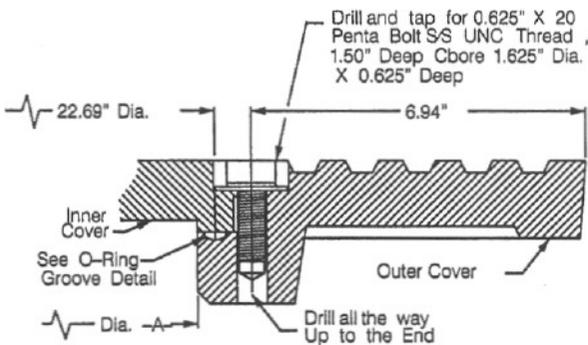
**M-1 Detail:
COVER TO FRAME**



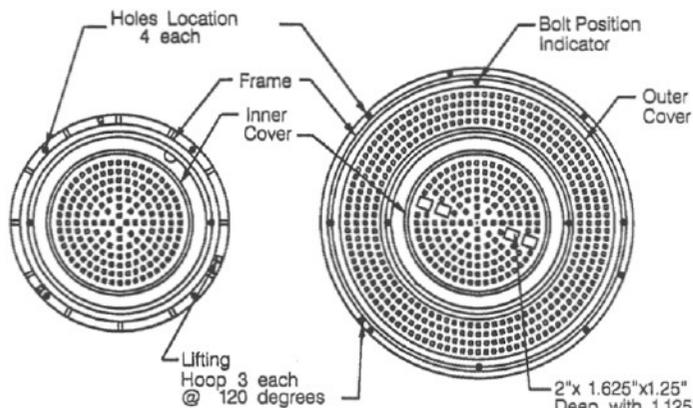
Drill and tap for 0.625" x 20
Penta Bolt SS UNC Thread.
1.50" deep Cbore 1.625" Dia.
x 0.625" Deep



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



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



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

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

NOTES:

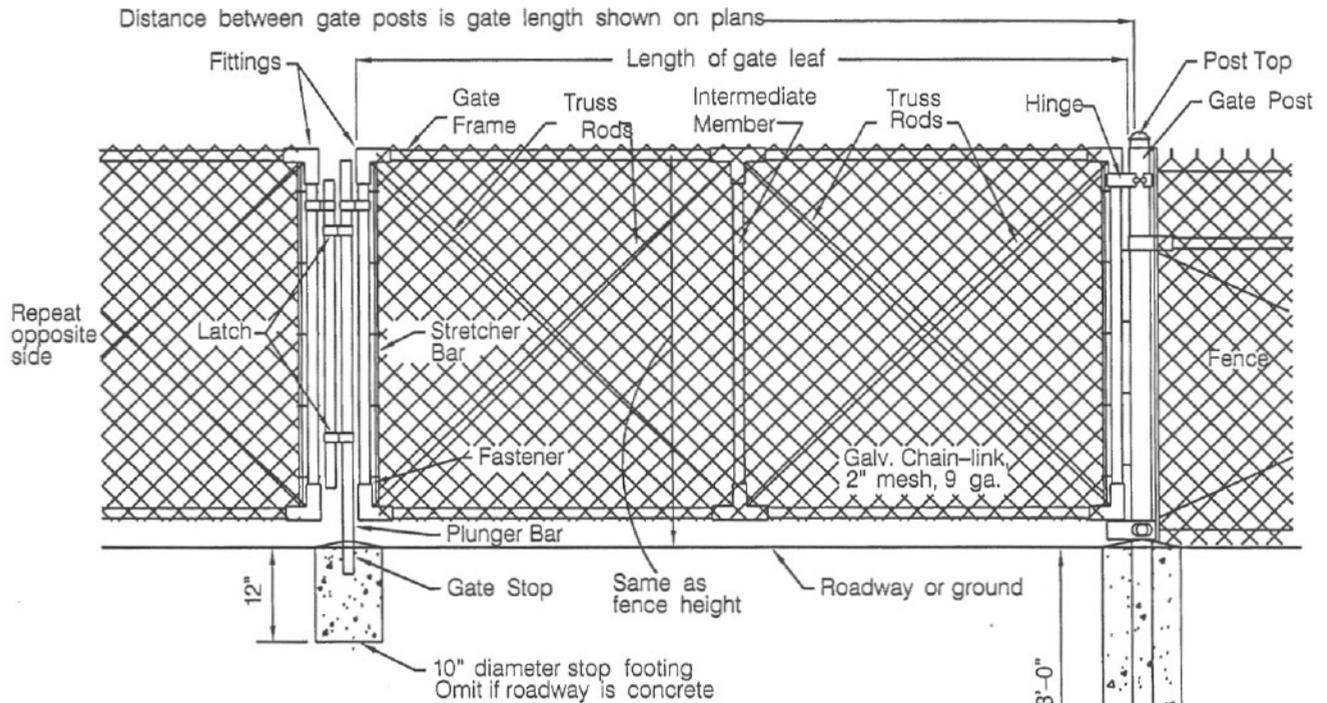
- 0.625" X 20 PENTA BOLT SS UNC THREAD, 316 STAINLESS STEEL SOCKET HEAD CAP SCREW AND 1.50" O.D. x 0.687" I.D. X 0.078 THICK 316 STAINLESS STEEL WASHER.
 - 0.25" NEOPRENE O-RING GASKET SHALL BE GLUED INTO MACHINED GROOVE. GLUE SHALL MEET THE REQUIREMENTS OF MIL-M-81288 (AMEND. 1)
 - BOLTDOWN PATTERNS: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

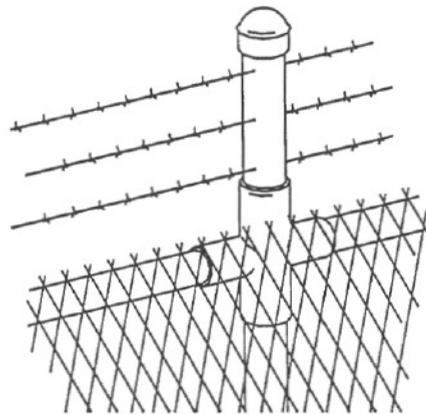
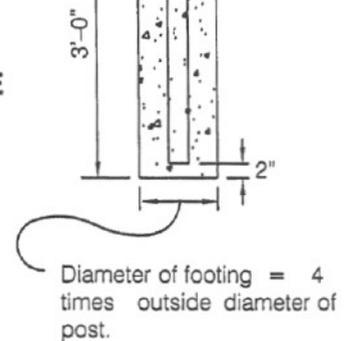
CITY OF SAN DIEGO
STANDARDS COMMITTEE
[Signature] 12-9-03
Chairperson RCE 64572 Date
DRAWING NUMBER **SDM-113**



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.



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

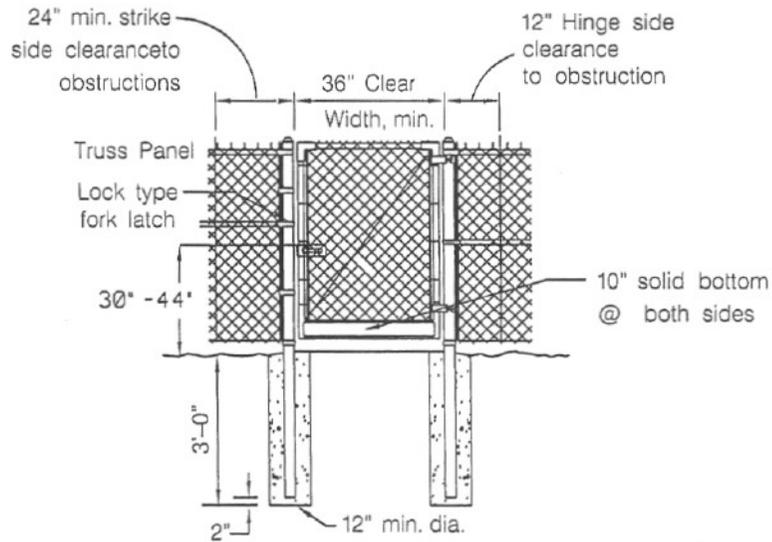
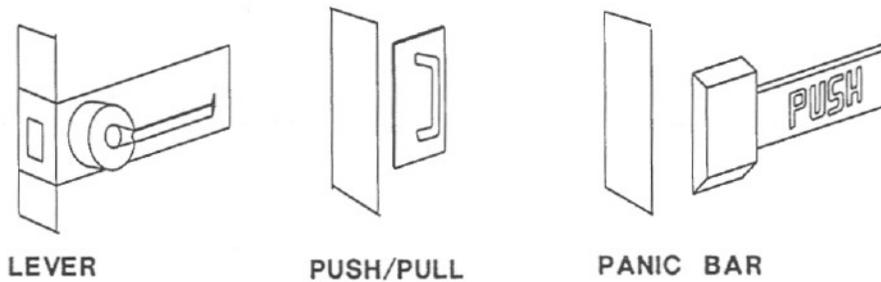
**CHAIN LINK GATE &
CHAIN LINK PEDESTRIAN GATE**

CITY OF SAN DIEGO
STANDARDS COMMITTEE

R. Sh... 12-9-03
Chairperson RCE 64572 Date

DRAWING NUMBER **SDM-114**

ACCEPTABLE DOOR/GATE HARDWARE



MOUNTING DETAIL

NOTES

1. Accessible gate shall be provided with the required international symbol of accessibility. Refer to the CBC Title 24 & ADA/ADAAG for type & mounting requirements
2. Landing and approach space must comply with CBC Title 24 and ADA/ADAAG accessibility requirements.
3. 3/8" dia. tension rod & tightener for gates over 3 feet.
4. Tie fabric top and frame with 11 gage wire
5. Latching & locking gates that are hand operated are operable with the single effort (5 pound pressure)

LEGEND ON PLANS



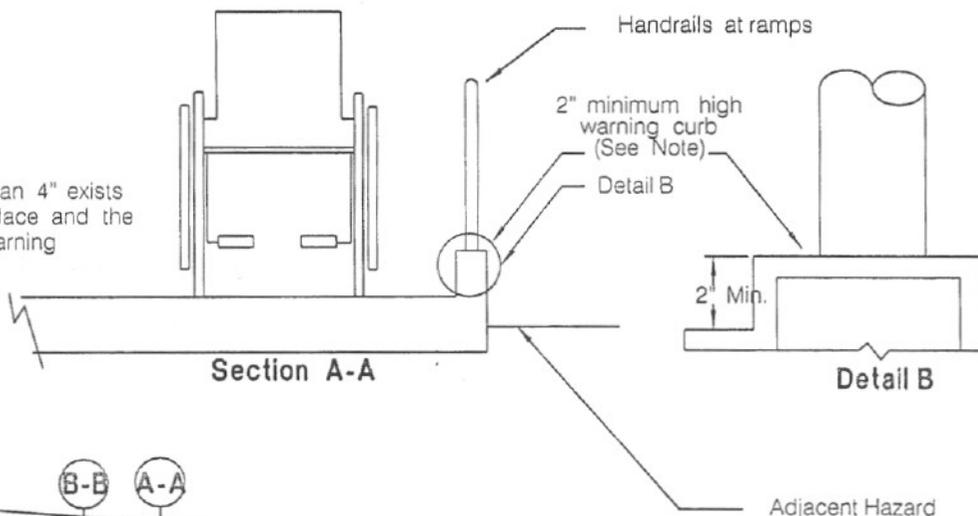
SHEET 2 OF 2

Revision	By	Approved	Date	CITY OF SAN DIEGO STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE
DETAIL	SM	Oskoui	12/03		
				CHAIN LINK GATE & CHAIN LINK PEDESTRIAN GATE	 Chairperson RCE 64572
					Date 12-9-03
					DRAWING NUMBER SDM-114

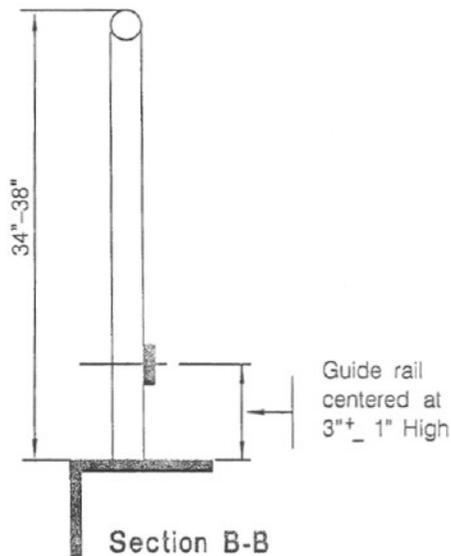
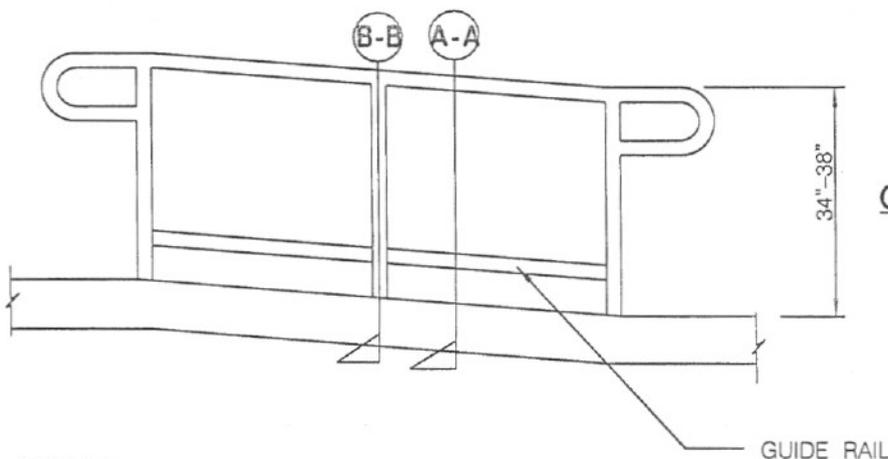
WARNING CURB EDGE PROTECTION

Note:

If a drop-off of more than 4" exists between the ramp surface and the adjacent grade, a 6" warning curb must be utilized.



GUIDE RAIL EDGE PROTECTION



NOTES

1. It shall conform with the current ADA/ADAAG and CBC Title 24 accessibility regulations.
2. The ramp running slope shall be between 5.5% - 8.33%. Construct ramp to minimum slope possible.
3. The minimum width of the ramp shall be 60".
4. The ramp cross slope shall be 0%.
5. The maximum difference of elevation between landing shall not exceed 30".
6. Landings:
 - a. Top landing shall be a minimum of 60" x 60"
 - b. Bottom landing shall be a minimum of 72" long in the ramp direction.
 - c. Bottom and intermediate landings shall be at least as wide as the required ramp.
 - d. Intermediate landings shall be a min. of 60" long in ramp direction.
 - e. At intermediate landing, where the ramp changes direction 30 degree or more, the landing dimension must be a min. of 72" in length and shall incorporate a 60" diameter turning circle within the landing.
 - f. Top, Intermediate & bottom landings shall have a cross slope of 1.5%
7. All travel surfaces shall be medium broom finish.
8. Ramps and landings with drop-offs (or ramps that exceed 10 feet in length and are not bounded by wall or fence) shall have an edge protection consisting of either a warning curb, a minimum of 2" high on each side of the ramp, or a wheel guide rail centered 3" plus or minus 1" on each side of the ramp.
9. Ramps and their approaches shall be designed so water does not accumulate on walking surfaces.

SHEET 1 OF 2

Revision	By	Approved	Date
ORIGINAL	SM	Oskoui	12/03

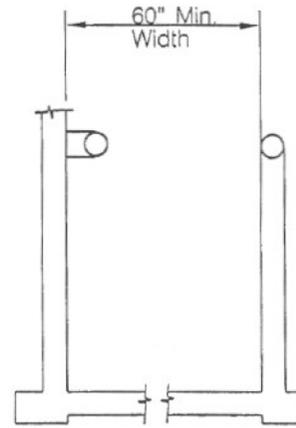
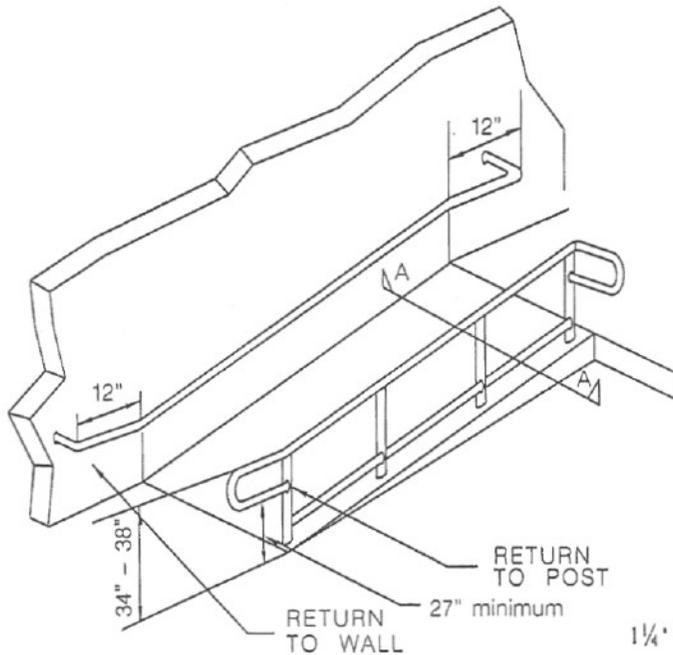
CITY OF SAN DIEGO STANDARD DRAWING

PEDESTRIAN RAMP AND PROTECTIVE RAILING

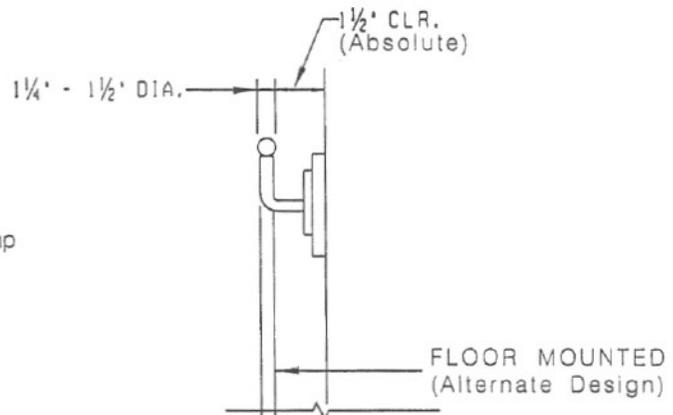
CITY OF SAN DIEGO
STANDARDS COMMITTEE

B. B. B. 12-9-03
Chairperson RCE 64572 Date

DRAWING
NUMBER **SDM-115**



SECTION A-A
WIDTH MUST BE MINIMUM OF 60"
WITH OCCUPANCY OF 300 OR MORE



HANDRAIL SECTION

WHERE THE EXTENSION OF THE HAND RAIL IN THE DIRECTION OF THE RAMP RUN WOULD CREATE A HAZARD, THE TERMINATION OF THE EXTENSION MAY BE MADE ROUNDED OR RETURN SMOOTHLY TO A FLOOR, WALL OR POST.

GENERAL NOTES:

1. Any path of travel shall be considered a pedestrian ramp if it's slope is greater than 5.0%.
2. See Sheet 1 for additional information.

RAILING NOTES:

1. 1/4" expansion joints @ 16'-0" o.c. slip joints and vertical railing spacing per welding details on M24.
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. Guardrails and handrails for stairs and ramps more than 30" above the grade shall have intermediate rails equally spaced such that a 4" in sphere diameter cannot pass through.
6. Handrails must extend a minimum of 12" of level distance (parallel to landing surface) beyond top and bottom of the ramps ends before they are returned.



MOUNTING DETAIL

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

SHEET 2 OF 2

Revision	By	Approved	Date
ORIGINAL	SM	Oskoui	12/03

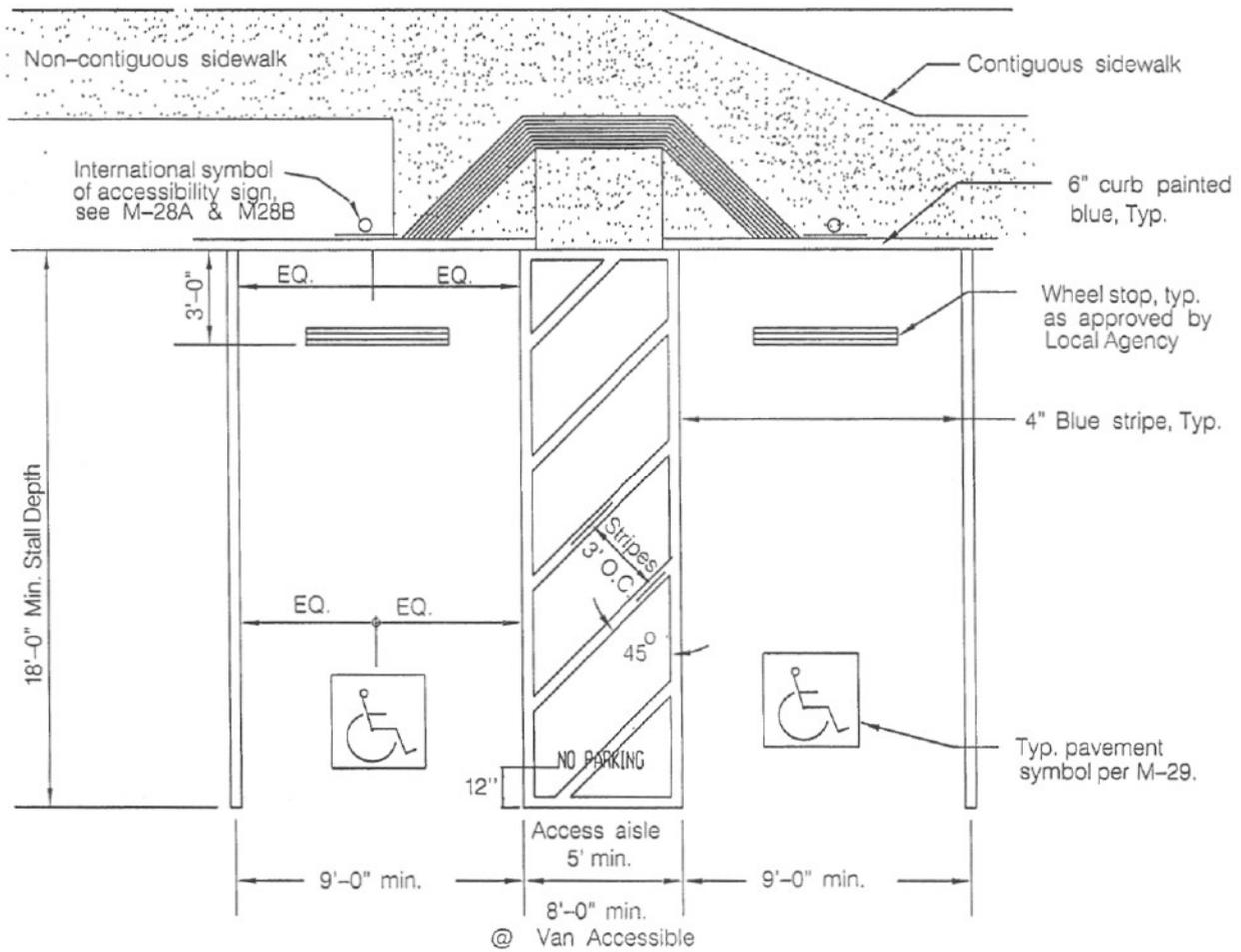
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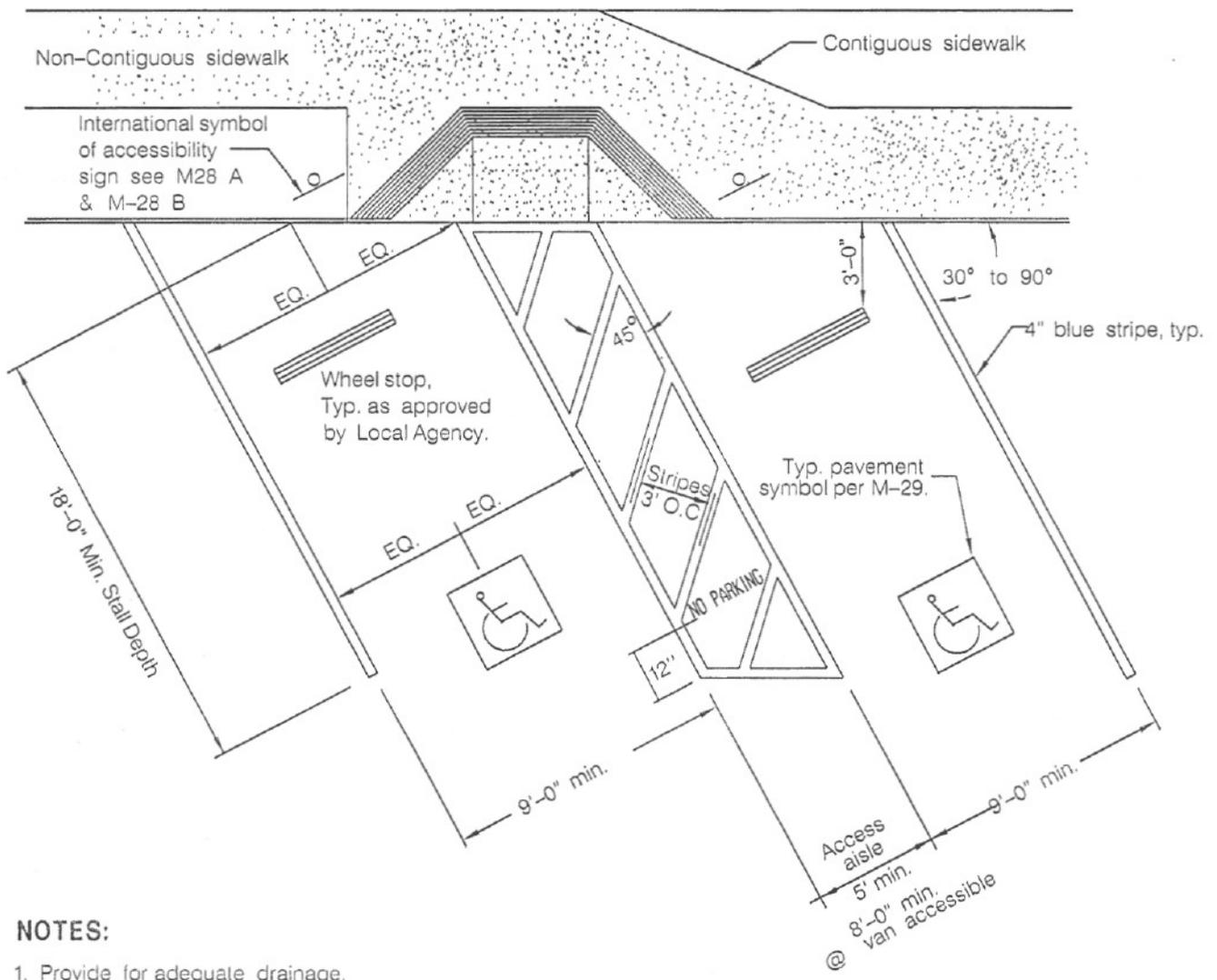
DRAWING
NUMBER **SDM-115**



NOTES:

1. Provide for adequate drainage.
2. For appropriate ramp alternate to conform to topographical conditions, see standard drawing 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 one accessible parking is going to be provided, at least one van-accessible space with an 8'-0" access aisle located on the passenger side is required.
5. Sidewalk cross slope shall be 1.5%.
6. The 8'-0" wide access aisle for a van accessible stall shall be located on the passenger side of the vehicle.
7. "NO PARKING" 12" high stencil marking, reflective white over blue stripes.

Revision	By	Approved	Date	CITY OF SAN DIEGO STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	SM	Oskoui	12/03		
				DRAWING NUMBER	SDM-117



NOTES:

1. Provide for adequate drainage.
2. For appropriate ramp alternate to conform to topographical conditions, see standard drawing G-27 through G-30.
3. Blue color should match color No. 15090 in the Federal Standard. 595 as specified in Section 522 (b) 2.
4. If one accessible parking is going to be provided, at least one van accessible space with an 8'-0" access aisle located on the passenger side is required
5. Sidewalk cross slope shall be 1.5%.
6. "NO PARKING" shall be 12" high stencil marking, reflective white over blue stripes.

Revision	By	Approved	Date	CITY OF SAN DIEGO STANDARD DRAWING		CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL	SM	Oskoui	12/03	DIAGONAL ACCESSIBLE PARKING STALL(S) STRIPING LAYOUT		<i>R. L. H.</i> 12-9-03 Chairperson RCE 64572 Date	
						DRAWING NUMBER SDM-118	