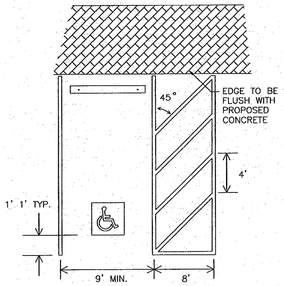
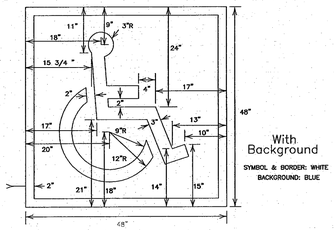




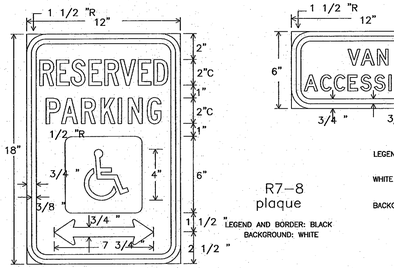
TYPICAL ACCESSIBLE PARKING SPACE DIMENSIONS AND HANDICAP PAVEMENT MARKING

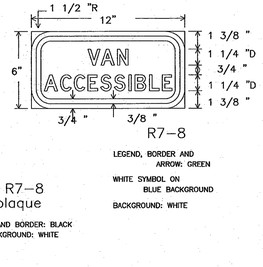
1

NOT TO SCALE

GENERAL NOTES:

1. All parking space limit lines shall be 4" solid white lines.
2. Aisle markings shown are examples only. Other methods to indicate a NO PARKING area are acceptable. Aisle markings shall be white.
3. Dimensions of limit lines, aisle markings, and symbol (with or without background) may vary + 10%.
4. Pavement marking symbols (with background):
   a) are REQUIRED unless stated elsewhere in the plans,
   b) should be placed toward the far end of the parking spaces so as to be visible to motorists in the travel lane,
   c) may be painted or prefabricated material, and
   d) shall be 30" x 30" minimum.
5. With approval of the Engineer, prefabricated pavement marking symbols with background of other dimensions exceeding the 30" x 30" minimum may be used. Alternative designs shall include a proportion sized symbol of accessibility, and shall conform to the illustrated colors for background, symbol and border.
6. An R7-8 sign:
   a) shall be REQUIRED for each accessible parking space,
   b) shall NOT be placed between two accessible parking spaces,
   c) shall NOT be placed in a location that restricts movement of wheelchairs within the adjacent sidewalk, and
   d) shall have a minimum mounting height of 7 feet. If mounted to wall or located so as not to be near pedestrian traffic minimum mounting height may be 5 feet.
7. Post mounted signs should be placed approximately 1 foot (or greater) behind the curb to prevent damage from vehicle overhang.
8. Signs may be mounted directly to an adjacent wall of a building when post mounting is impractical (see 6(d)). overhang.ignce.





R7-8

LEGEND, BORDER AND ARROW: GREEN

WHITE SYMBOL ON BLUE BACKGROUND

BACKGROUND: WHITE

R7-8 plaque

LEGEND AND BORDER: BLACK

BACKGROUND: WHITE

SPECIFICATION REFERENCE TABLE	
MATERIALS AND TESTS DIVISION SPECIFICATIONS	
ALUMINUM SIGN BLANKS	D-9-7110
REFLECTIVE SHEETING, TYPE C (HIGH SPECIFIC INTENSITY)	D-9-8300

GENERAL SIGN NOTES:

The Alphabets and lateral spacing between letters and numerals shall conform with the Texas "Manual on Uniform Traffic Control Devices for Streets and Highways", latest edition, and any approved changes thereto. Lateral spacing of text shall provide a balanced appearance. All materials shall conform to Department Specifications.

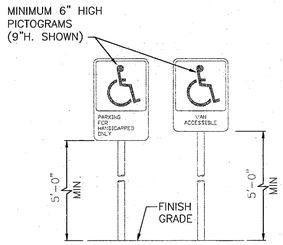
Legend shall be applied by screening process of black and/or transparent colored ink, cut-out black vinyl non-reflective decal sheeting and/or reflective sheeting or combination thereof. Background shall be white reflective sheeting (Type C).

Sign blanks shall be one piece 0.08 inch thick sheet aluminum alloy (Type A), unless otherwise noted elsewhere in the plans.

HANDICAP PARKING SIGN

4

NOT TO SCALE



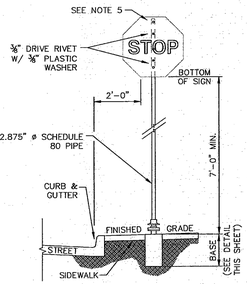
NOTES:

1. SIGNS SHALL BE 16 GAUGE STEEL WITH BAKED ENAMEL FINISH.
2. VAN ACCESSIBLE PARKING SPACE SHALL BE AS INDICATED.
3. ATTACH SIGNS AS PER TxDOT STANDARD MSX-76.

ACCESSIBLE PARKING SIGNAGE

2

NOT TO SCALE



TRAFFIC CONTROL NOTES:

1. ALL SIGNAGE, BARRICADES, AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD HIGHWAY SIGN FOR TEXAS (SHSD).
2. LOCATIONS SHOWN ON THE PLANS FOR THROUGHOUT DRAWINGS ARE APPROXIMATE; FINAL LOCATIONS MAY CHANGE DUE TO POST CONSTRUCTION CONDITIONS AND PRESENCE OF OTHER PHYSICAL FEATURES. FINAL LOCATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE FIELD VERIFIED WITH THE PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.
3. ALL SIGNS SHALL BE HIGH INTENSITY AND THE SIZES SHALL BE STANDARD UNLESS OTHERWISE NOTED.
4. ALL SIGNS, POSTS, AND MATERIALS SHALL BE INSTALLED PER DETAILS IN THIS MANUAL.
5. FOR STOP SIGNS THAT WILL ACCEPT FUTURE STREET SIGNS, EXTEND POST ABOVE THE STOP SIGN SO THAT 2 HOLES ARE AVAILABLE FOR MOUNTING. FOR ALL OTHERS, POST SHALL NOT EXTEND ABOVE THE SIGN.
6. CHANGES TO TYPICAL SIGN POST LOCATION MADE AT ENGINEER'S DISCRETION.

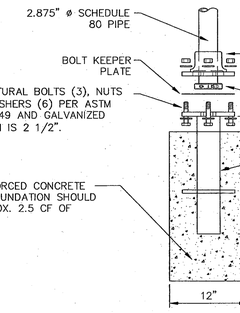
SPECIFICATIONS FOR SCHEDULE 80 PIPE (2.875" OUTSIDE DIAMETER)

- 0.203" NOMINAL WALL THICKNESS
- STEEL TUBING PER ASTM A500 GR C
- OTHER SEAMLESS OR ELECTRIC-RESISTANCE WELDED STEEL TUBING OR PIPE WITH EQUIVALENT
- OUTSIDE DIAMETER AND WALL THICKNESS MAY BE USED IF THEY MEET THE FOLLOWING:
  - 46,000 PSI MINIMUM YELD STRENGTH
  - 62,000 PSI MINIMUM TENSILE STRENGTH
  - 21% MINIMUM ELONGATION IN 2"
- WALL THICKNESS (UNCOATED) SHALL BE WITHIN THE RANGE OF 0.246" TO 0.304"
- OUTSIDE DIAMETER (UNCOATED) SHALL BE WITHIN THE RANGE OF 2.805" TO 2.855"

TYPICAL POST DETAIL

3

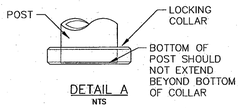
NOT TO SCALE



SIGN BASE DETAIL

5

NOT TO SCALE



DETAIL A

NTS

DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS DMS-7110

Square Ft.	Min. Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

SIGN FACE MATERIALS DMS-8300

USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	ALL	TYPE C SHEETING
LEGEND & BORDERS	WHITE	TYPE C SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM

GENERAL NOTES:

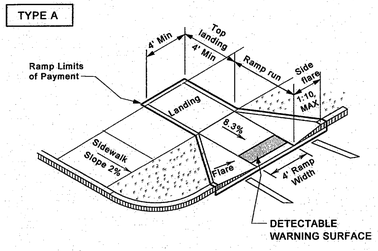
1. Signs to be furnished shallbe as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Regulatory sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shallbe applied by screening process or cut-out acrylic non-reflective black film to white background sheeting, or combination thereof.
5. White legend and borders shallbe applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
6. Colored legend shallbe applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
7. Sign substrate shallbe any material that meets the Departmental Material Specification requirements of DMS-7110.
8. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

STOP SIGN DETAIL

6

NOT TO SCALE

TYPE A

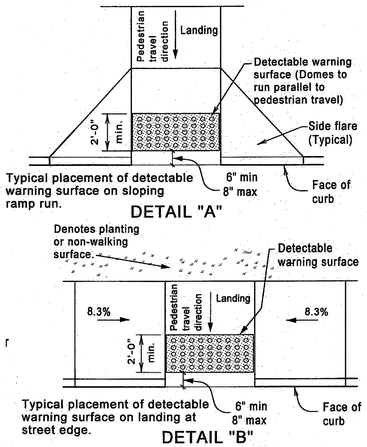


PERPENDICULAR CURB RAMP

WITH SIDE FLARES NOT ADJACENT TO WALK SURFACE

SIDEWALK RAMP (CURB RAMP) GENERAL NOTES

1. All slopes are maximum allowable. The least possible slope that will still drain properly should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
2. The minimum sidewalk width is 4'.
3. Landings shall be 4'x 4' minimum with a maximum 2% slope in any direction.
4. Maneuvering space at the bottom of curb ramps shall be a minimum of 4'x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
5. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
6. Curb ramps with returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planting or other non-walking surface or because the side approach is substantially obstructed. Otherwise, provide flared sides.
7. Details on this plan apply to all construction or reconstruction of streets, curbs, or sidewalks
8. To serve as a pedestrian refuge area, the median should be a minimum of 5' wide. Medians should be designed to provide accessible passage through them.
9. Curb cut ramps are to be located as shown on the plans or as directed by Engineer.
10. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall be aligned with theoretical crosswalks, or as directed by the Engineer.
11. Existing features that comply with TAS may remain in place unless changed on the plans.
12. Ramps shall be provided at all corners of street intersections where there is existing or proposed sidewalk and curb. Ramps shall also be provided at walk locations in mid-block in the vicinities of hospitals, medical centers, and stadiums.
13. Surface texture of the ramp shall be that obtained by a course brooming, transverse to the slope of the ramp except at detectable warning surface areas. See details A and B.
14. Separate curb ramp and landings from adjacent sidewalk and any other elements with premold or board joint of 3/4 " unless otherwise directed by the Engineer.
15. Provide a smooth transition where the curb ramps connect to the street.
16. Curbs shown on this sheet within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
17. Flare slope shall not exceed 10% measured along curb line and where pedestrians could walk across the ramp, then Maximum slope shall be 1:12. (8.3 %).
18. Sidewalks shall be ramped where the driveway curb is extended across the walk.
19. If possible, drainage structures should not be placed in line with ramps. Location of the ramps should take precedence over location of the drainage structure.
20. The normal gutter line profile shall be matained through the area of the ramp.
21. The actual limits of existing curb and gutter and sidewalk shall be directed by the engineer in the field.
22. Contraction joints, expansion joints and silicone sealing shall be subsidiary to unit price bid for sidewalks and ramps.



SIDEWALK RAMP DETAIL

7

NOT TO SCALE

GENERAL NOTES FOR DETECTABLE WARNINGS

ON SIDEWALK RAMPS (CURB RAMPS)

1. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with Section 4.29 of the Texas Accessibility Standards (TAS). The surface must contrast visually with adjoining surfaces, including side flares. Furnish dark brown or dark red detectable warning surface adjacent to uncolored concrete, unless specified elsewhere in the plans.
2. Detectable warning surfaces must be slip resistant and not allow water to accumulate.
3. Align truncated domes in the direction of pedestrian travel when entering the street.
4. Shaded areas indicate the approximate location for the detectable warning surface for each curb ramp type.
5. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
6. Detectable warning surfaces shall be located so that the edge nearest the curb line is a minimum of 6" and a maximum of 8" from the extension of the face of curb. Detectable warning surfaces may be curved along the corner radius.
7. The following is an approved list of Cast-In-Place Detectable Warning Materials and their manufacturers:
   7a. Armor Tile (vitrified polymer composite) by Engineered Plastics, Inc., Williamsville, NY.
   7b. Tactile Pavers (fired clay pavers) by Pine Hall Brick; Winston-Salem, NC.
   7c. Detectable Warning Paver (fired clay pavers) by Western Brick Co., Houston, Tx.
8. The above list of Detectable Warning Materials or their approved equal shall be used as the Detectable Warning surface on sidewalk (curb) ramps as shown on the plans and or details on this sheet.

TEXAS REGISTERED ENGINEERING FIRM F-2144

FREESE AND NICHOLS, INC

FREESE NICHOLS CONSULTANTS

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Web - www.freese.com

1-19-11

TOWN OF ADDISON, TEXAS

SURVEYOR 1.5 MG EST

CIVIL

PAVEMENT MARKING & SIGNAGE DETAILS

NO.	ISSUES	BY	DATE

F&N JOB NO. ADD08459

DATE 01/21/11

DESIGNED

DRAWN

CHECKED

FILE NAME CV-EST-DT-TYP09.SHT

REVISED DAT

VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

0 1"

SHEET DT-09

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Date: 01\19\2011 - 01:43:46 PM 34Border.dgn

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