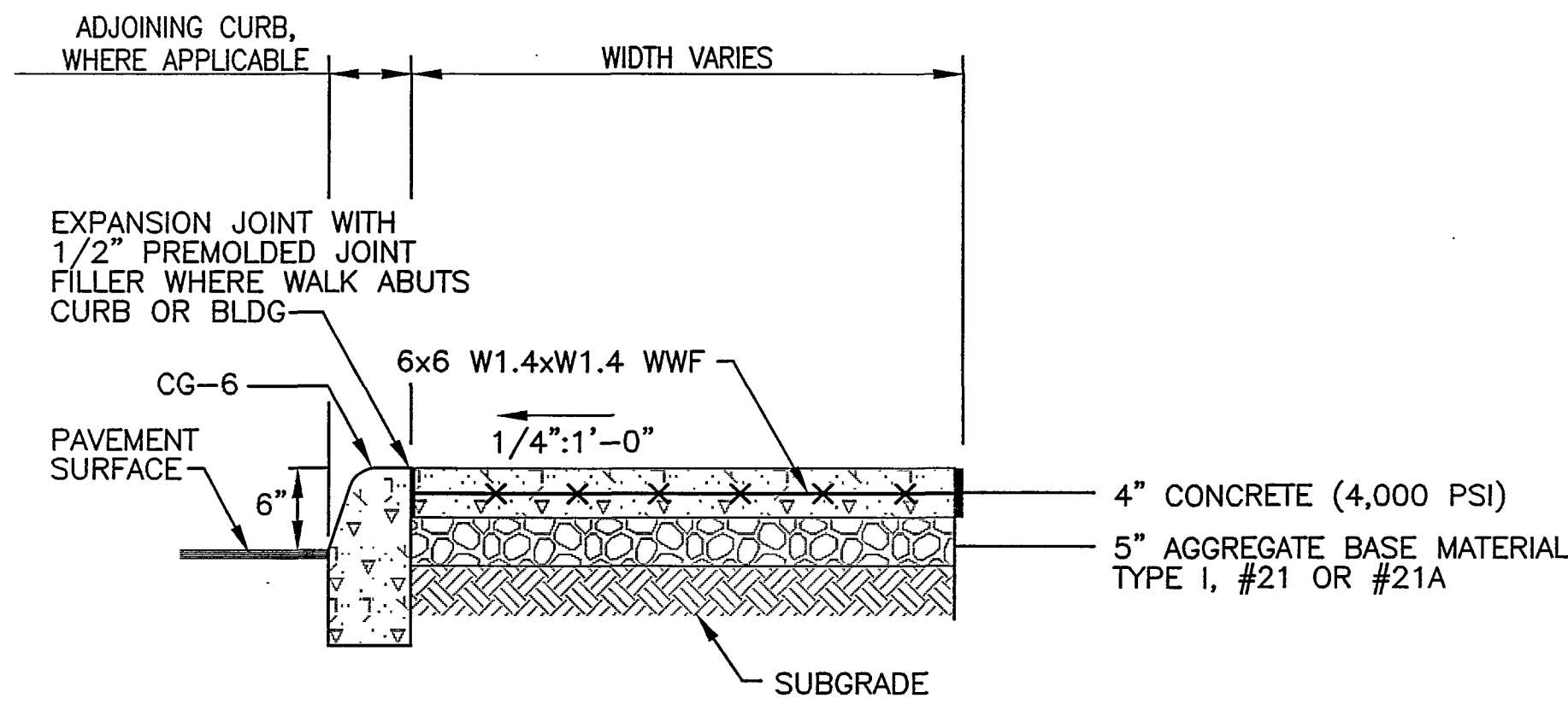
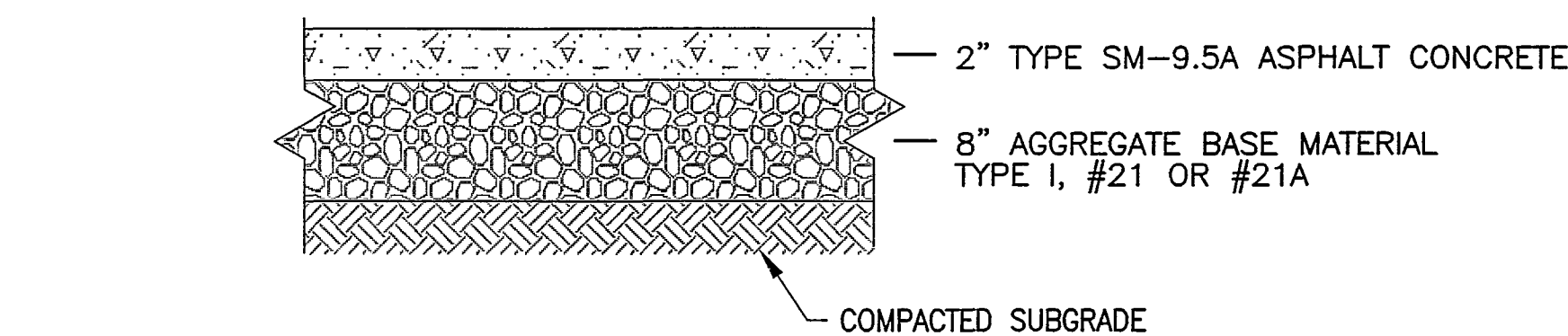
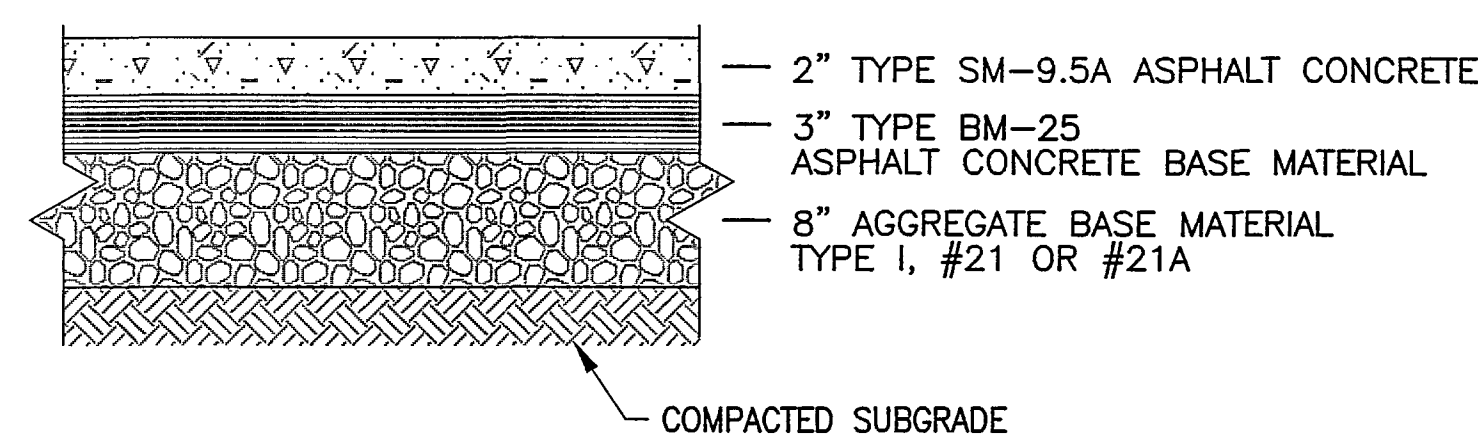




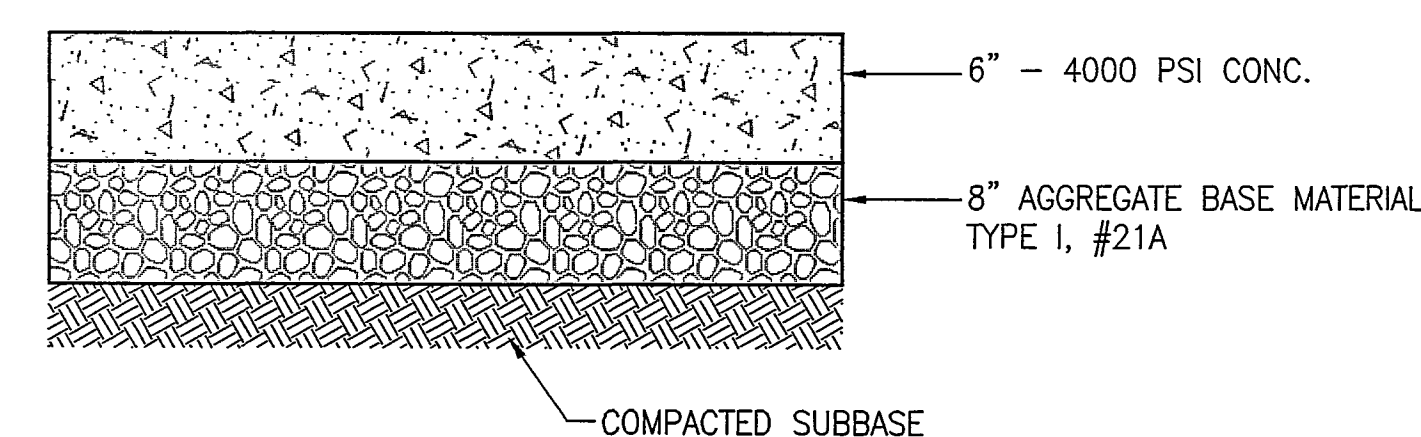
SIDEWALK SECTION
NO SCALE



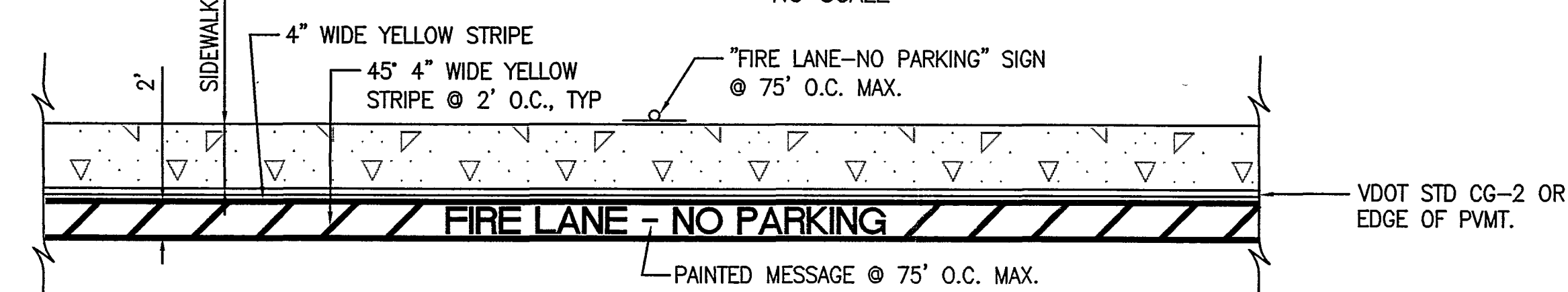
PAVEMENT SECTION - TYPE A - REGULAR DUTY
NO SCALE



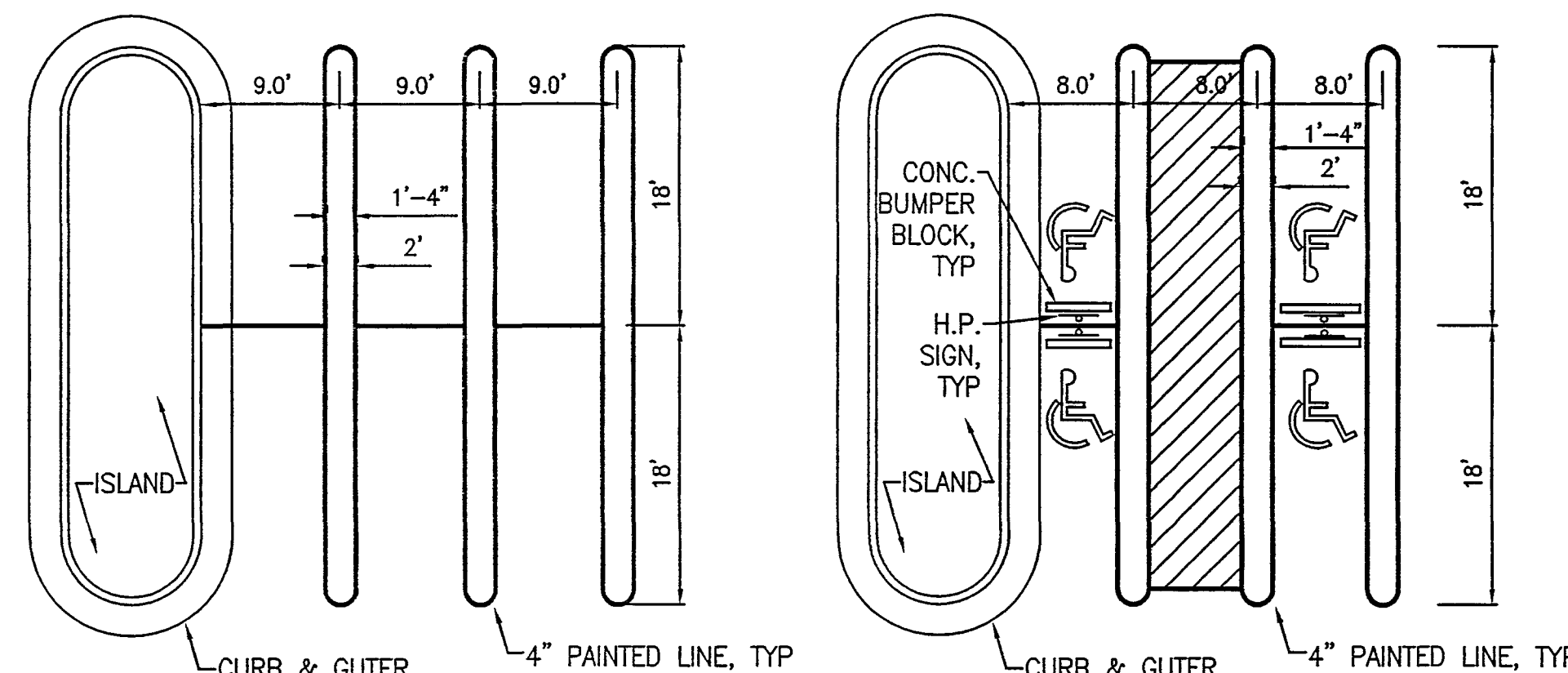
PAVEMENT SECTION - TYPE B - HEAVY DUTY
NO SCALE



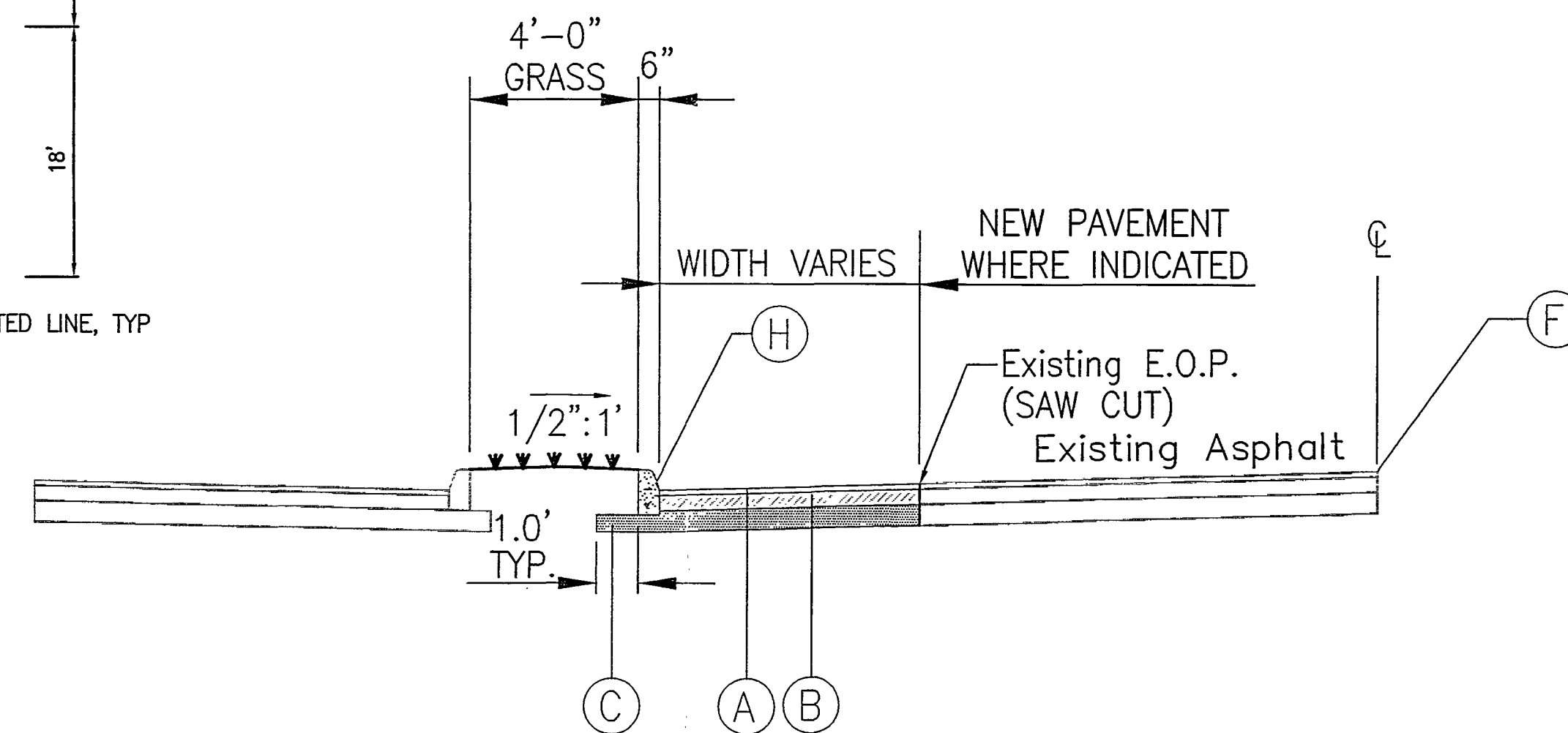
CONCRETE PAVEMENT SECTION
NO SCALE



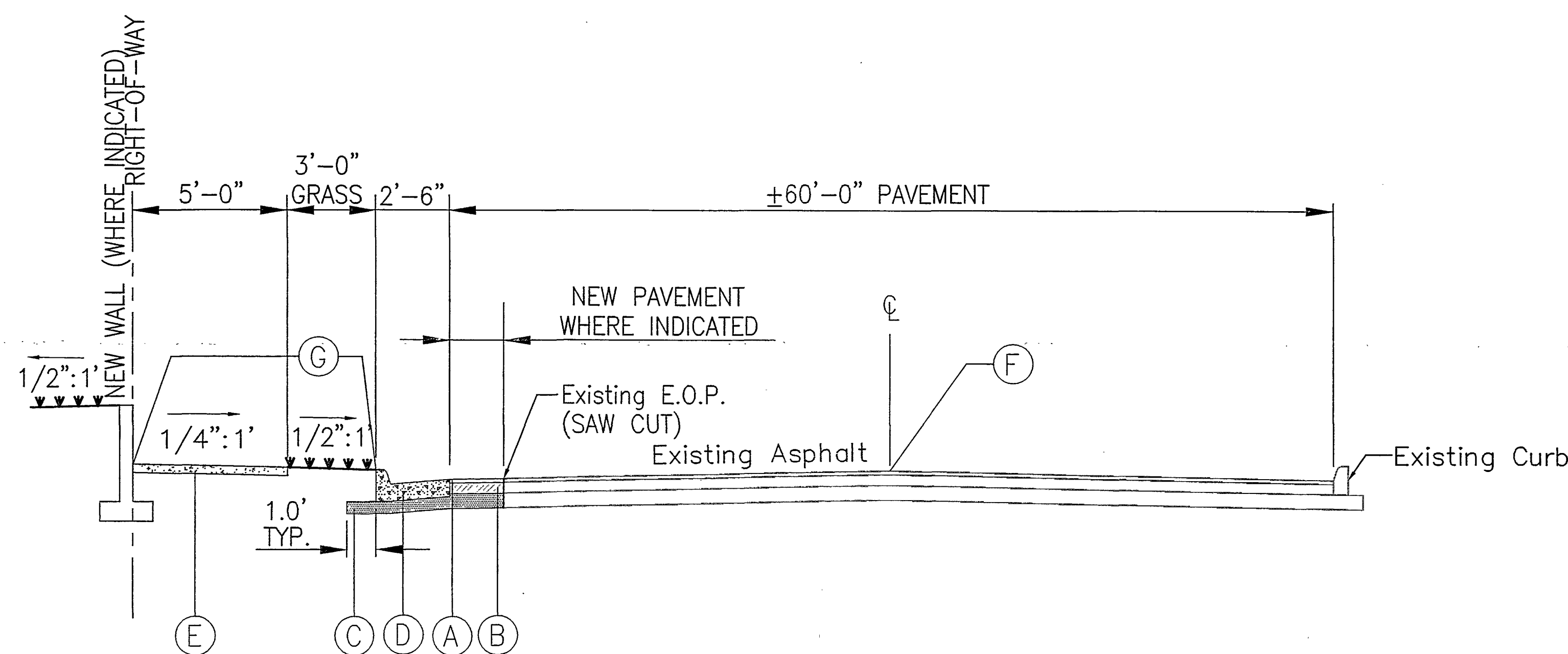
FIRE LANE MARKING DETAIL
NO SCALE



UKROPS PAVEMENT MARKING DETAIL
NO SCALE



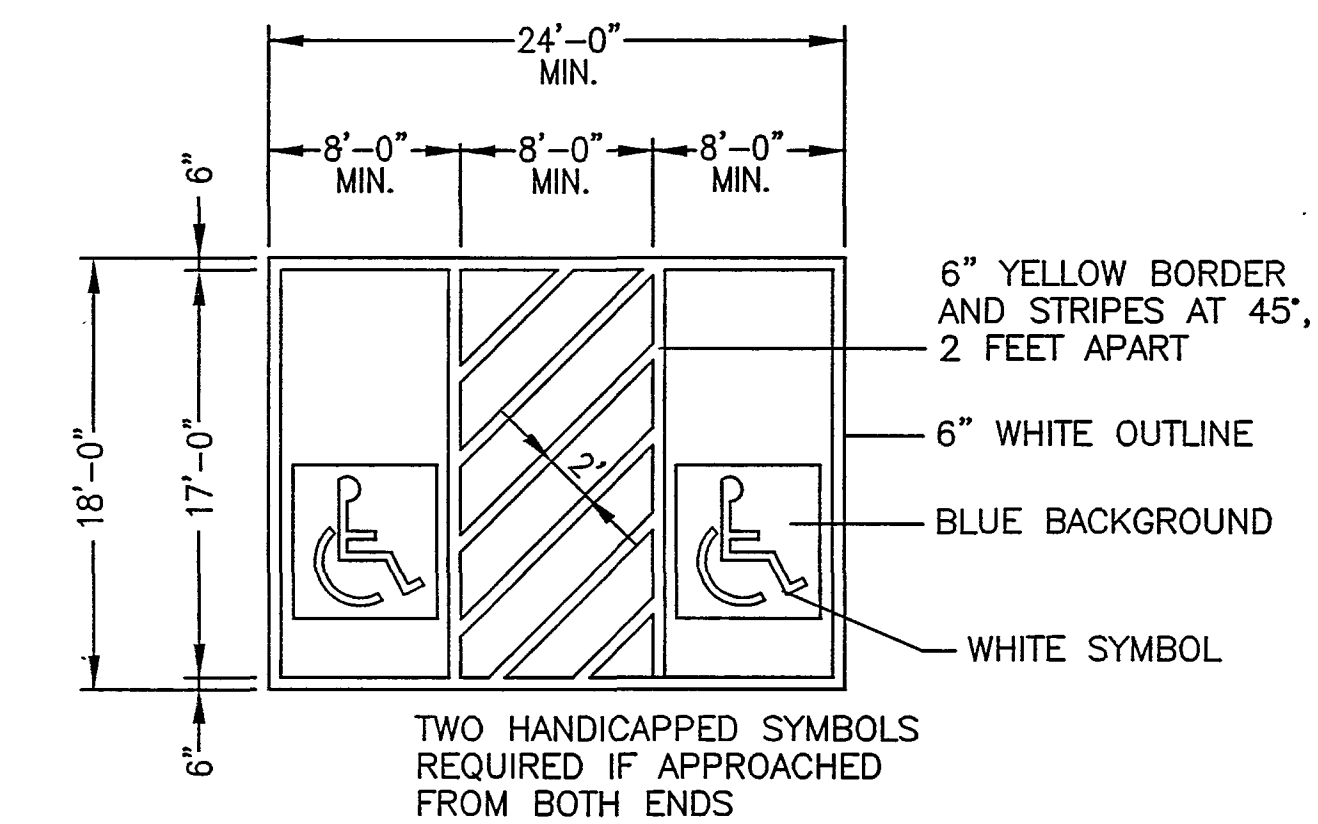
TYPICAL SECTION - WONJU STREET SOUTHBOUND THRU-LANE



TYPICAL SECTION - FRANKLIN ROAD, S.W. AND WONJU STREET NORTHBOUND THRU-LANE

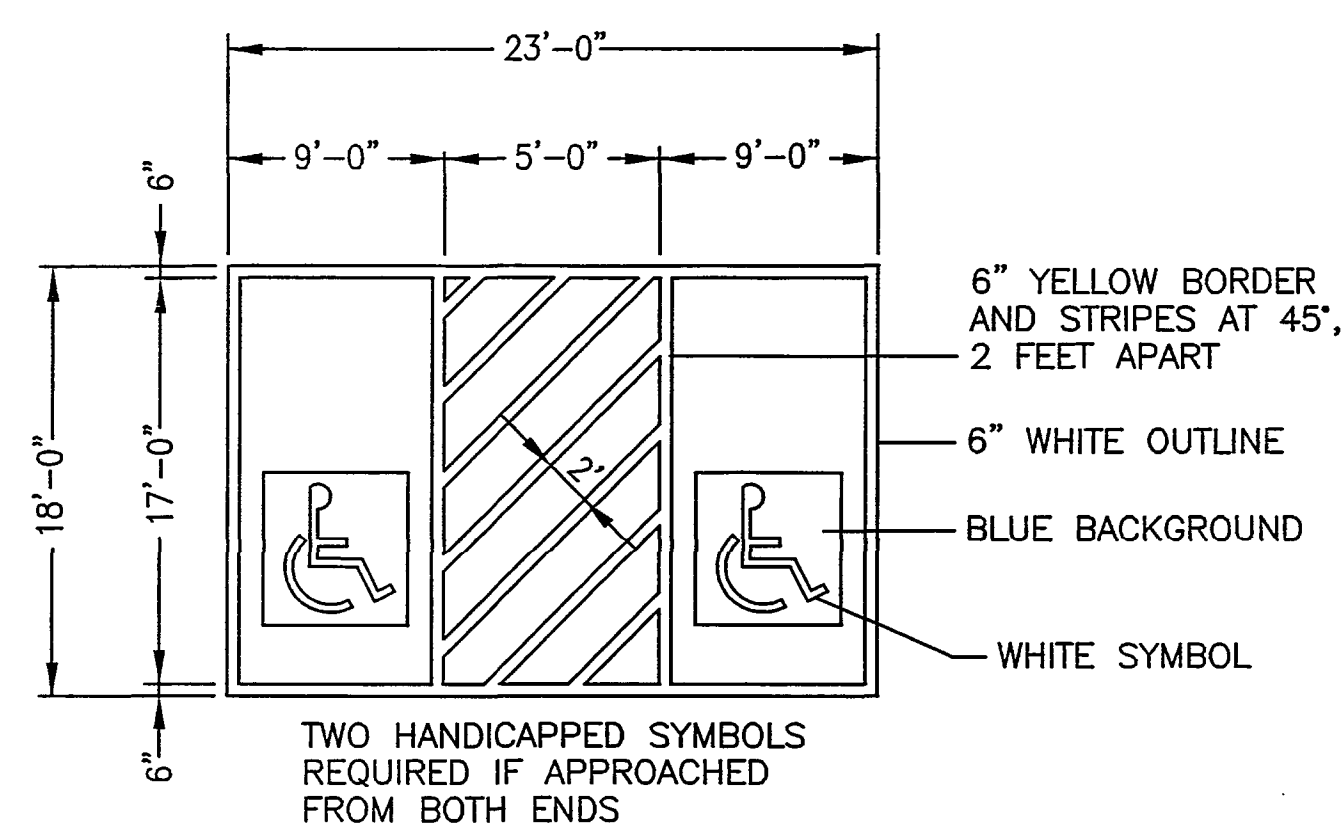
TYPICAL SECTION KEYNOTES:

- (A) 220 LBS./S.Y. ASPHALT CONCRETE, SM-9.5
- (B) 3" ASPHALT CONCRETE BASE, TYPE BM-25.0
- (C) 8" AGGREGATE MATERIAL, SIZE 21B (EXTEND 1' BEYOND CURB)
- (D) VDOT STD. CG-6 CONCRETE CURB & GUTTER
- (E) 4" THICK SIDEWALK, 4,000 PSI CONCRETE (WIDTH AS INDICATED)
- (F) POINT OF EXISTING GRADE/CENTERLINE
- (G) EXPANSION JOINT
- (H) VDOT STD. CG-2 CONCRETE CURB



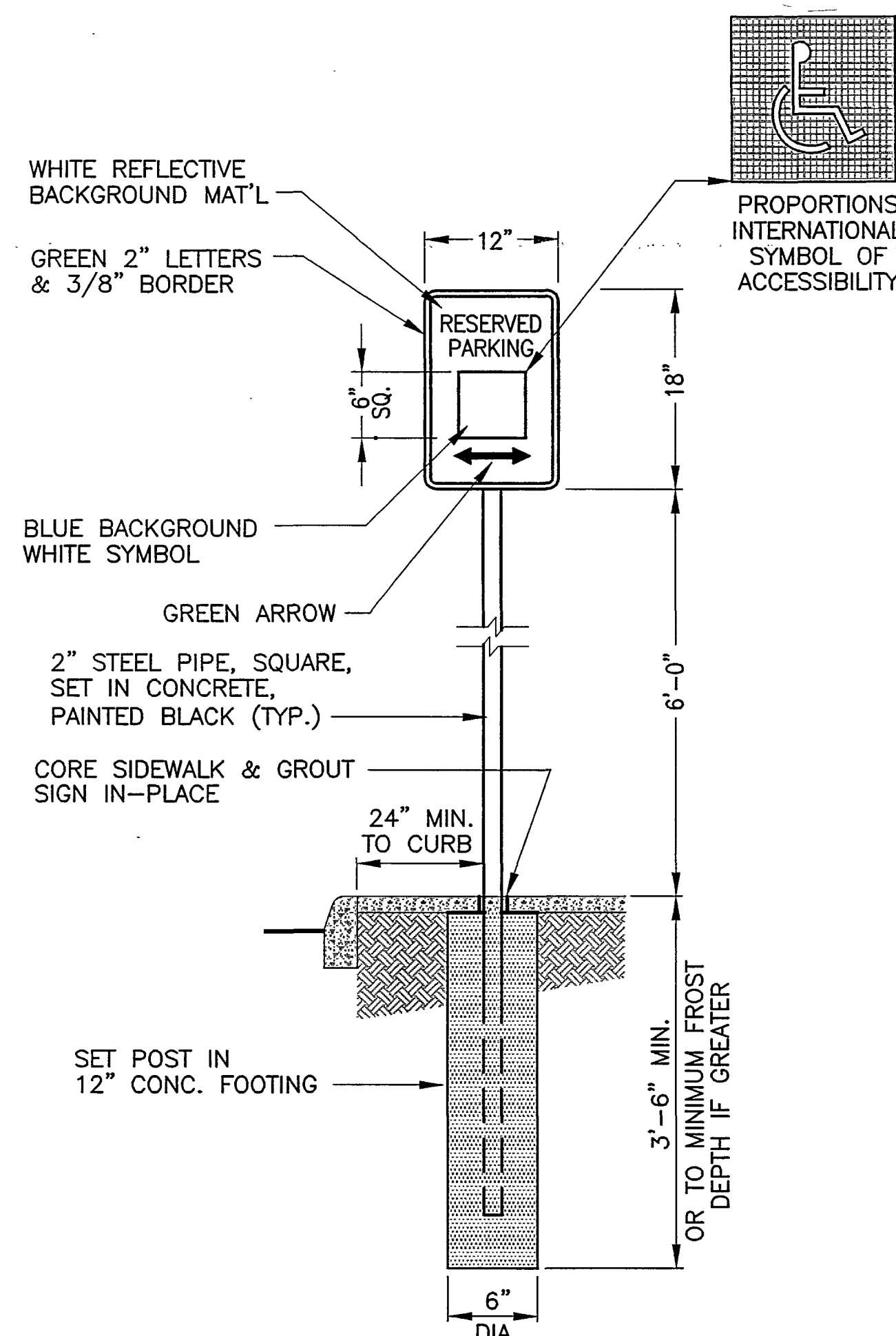
NOTE: HANDICAP SIGNS SHALL BE LOCATED BEHIND WALK, CENTERED IN FRONT OF EACH HANDICAPPED PARKING SPACES.

VAN HANDICAPPED PARKING DETAILS
NO SCALE

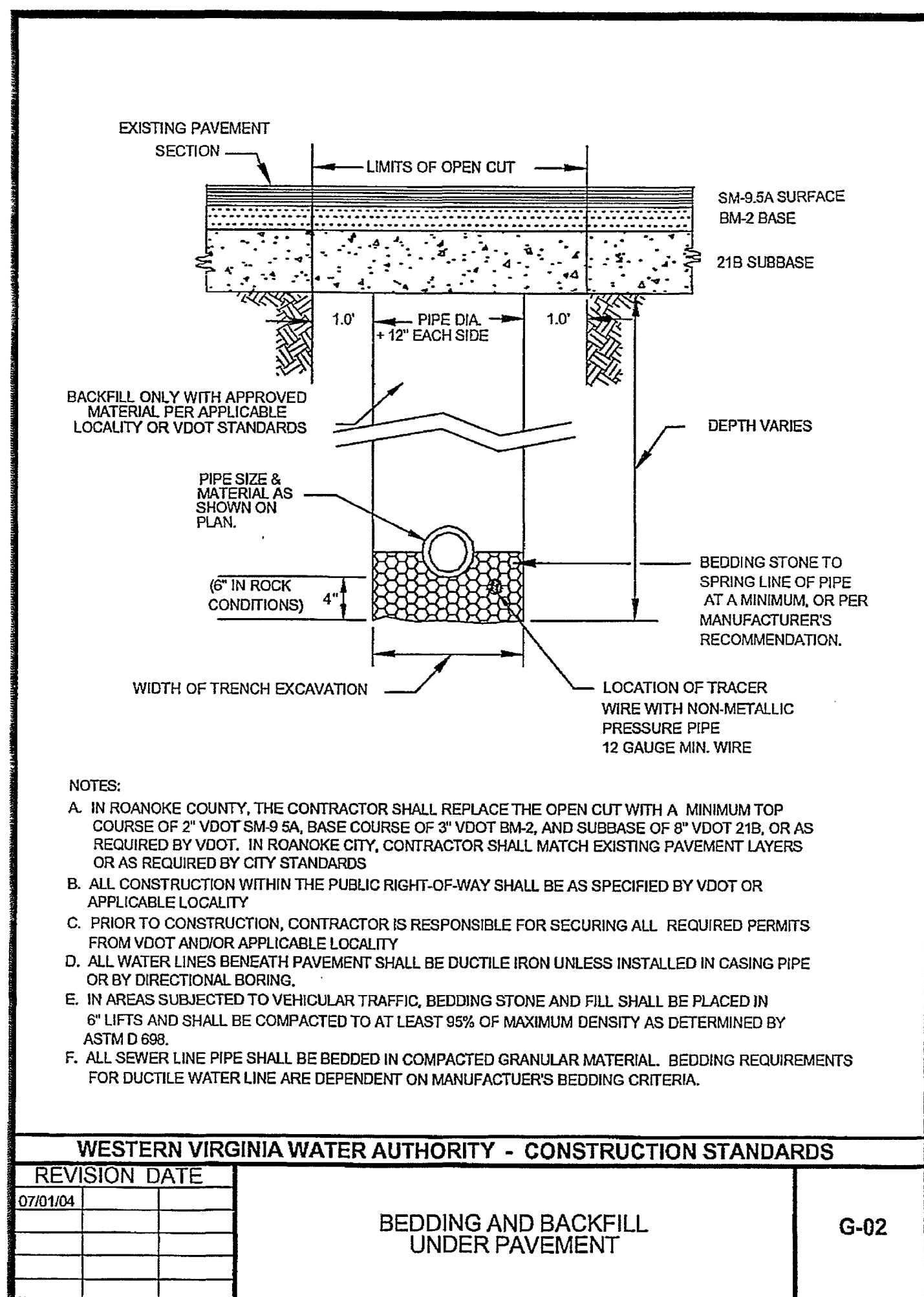


NOTE: HANDICAP SIGNS SHALL BE LOCATED BEHIND WALK, CENTERED IN FRONT OF EACH HANDICAPPED PARKING SPACES.

HANDICAPPED PARKING DETAILS
NO SCALE



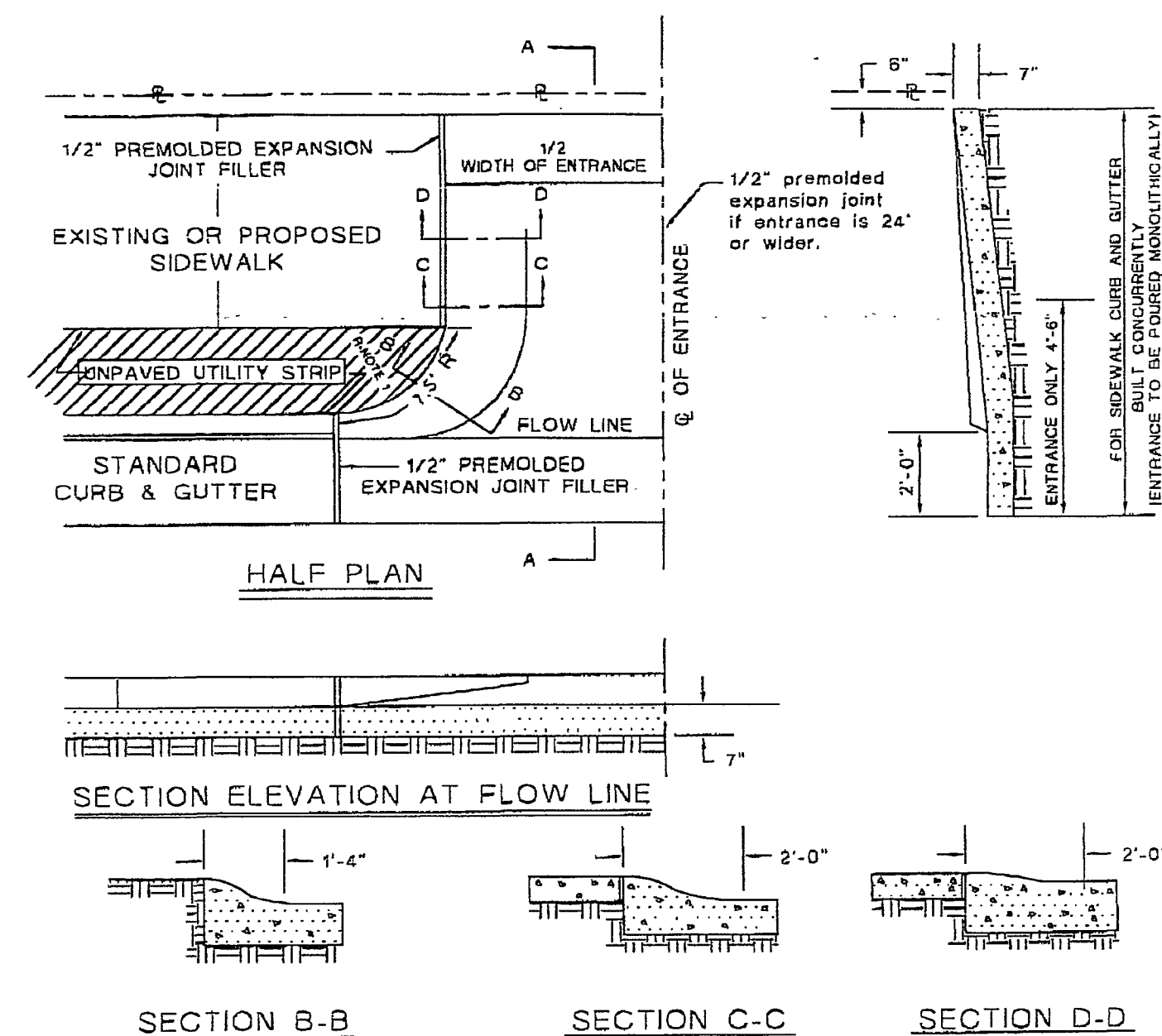
SIGN DETAIL
NO SCALE
NOTE: ALL SIGNS SHALL CONFORM TO MUT.C.D.



- NOTES:
- A. IN ROANOKE COUNTY, THE CONTRACTOR SHALL REPLACE THE OPEN CUT WITH A MINIMUM TOP COURSE OF 2" VDOT SM-9.5A, BASE COURSE OF 2" VDOT BM-2, AND SUBBASE OF 8" VDOT 21B, OR AS REQUIRED BY VDOT. IN ROANOKE CITY, CONTRACTOR SHALL MATCH EXISTING PAVEMENT LAYERS OR AS REQUIRED BY CITY STANDARDS.
 - B. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY VDOT OR APPLICABLE LOCALITY.
 - C. PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM VDOT AND/OR APPLICABLE LOCALITY.
 - D. ALL WATER LINES BENEATH PAVEMENT SHALL BE DUCTILE IRON UNLESS INSTALLED IN CASING PIPE OR BY DIRECTIONAL BORING.
 - E. IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 998.
 - F. ALL SEWER LINE PIPE SHALL BE BEDDED IN COMPACTED GRANULAR MATERIAL. BEDDING REQUIREMENTS FOR DUCTILE WATER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.

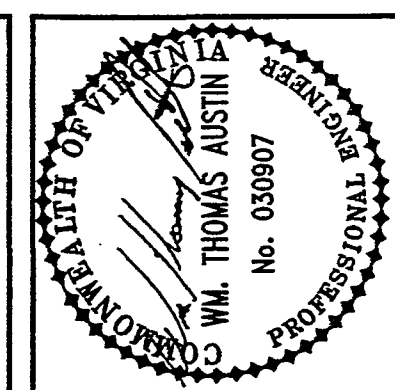
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE	DESCRIPTION	BY	APP'D
07/01/04	BEDDING AND BACKFILL UNDER PAVEMENT	G-02	



- GENERAL NOTES:
1. Standard commercial "Entrance" shall have a minimum curb radius (R) of 7 1/2 feet.
 2. Minimum Entrance width to be 12 feet.
 3. Where curb & gutter already exists both curb & gutter shall be removed. If proposed entrance falls within five (5) feet of an existing joint removal & reconstruction shall be to that joint. Any concrete removed at other than an existing joint shall be cut with a mechanical saw specifically manufactured for that purpose; this also shall apply to street pavement.
 4. Where sidewalk exists or is to be constructed across driveways the thickness thereof must correspond with the thickness of the entrance.
 5. Whenever "Entrance" exceeds twenty-four (24) feet in width a 1/2" pre-molded expansion joint filler shall be installed through the center perpendicular to flow line.
 6. Finish "Entrances" shall have a "course broom finish" running parallel to flow line.
 7. Curing shall be accomplished by the use of a liquid membrane seal containing white pigment applied at the rate of one (1) gallon per 150 square feet.
 8. All "Entrance Ways" shall be constructed according to City of Roanoke specifications and to line and grades approved by the City Engineering Department.
 9. Entrances exceeding 30 feet in width shall be approved by the City Manager.

APPROVED: *[Signature]*
CITY ENGINEER
CITY OF ROANOKE
STANDARD COMMERCIAL ENTRANCE
SHEET 6 OF 9
TITUS P.D.



Revisions	Date	By	App'd
1	1/15/05		

Issue Date: OCTOBER 25, 2005
Drawn By: CZV
Designed By: RSM/CZV/WJA
Checked By: WJA
Date: 10/25/2005

Mattern & Craig
CONSULTING ENGINEERS • SURVEYORS
701 FIRST STREET
ROANOKE, VIRGINIA 24012
(804) 545-3042
FAX (804) 345-1681

CONSTRUCTION SECTIONS AND DETAILS -
CITY OF ROANOKE, VIRGINIA

Vertical Scale: N/A
Horizontal Scale: N/A
Commission No. 2384
Sheet No.: C-14