

GENERAL NOTES:

DESIGN REFERENCES:

1. AASHTO - STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGN LUMINAIRES AND TRAFFIC SIGNALS - SECTION 504.01 - DRAFT, MAY 1998 OR LATER DRAFTS OF SAID SPECIFICATION.
2. AASHTO - STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES. (LATEST EDITION)

DESIGN LOADS:

1. WIND - 125 M.P.H.
2. ALLOWABLE BEARING PRESSURE 2000 P.S.F.
3. INTERNAL FRICTION ANGLE $\phi = 22$

MATERIALS:

1. CONCRETE: CLASS A - $f_c = 3,000$ psi
2. STEEL: REINFORCING STEEL AASHTO M31 (ASTM A615) GRADE 60.

CONCRETE COVER:

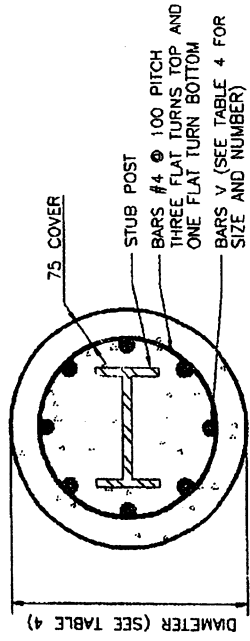
1. FOOTING
BOTT. 0.075
TOP & SIDES 0.075
2. PEDESTAL
TOP & SIDES 0.075

MISCELLANEOUS:

1. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 0.025 WHETHER OR NOT SUCH CHAMFERS ARE SHOWN ON THE PLAN DETAILS.
2. PRIOR TO ERECTION OF THE POST, THE BACKFILL MATERIAL SHALL BE IN PLACE.

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND OBSTRUCTIONS TO THE CONSTRUCTION OF THE GROUND MOUNTED FOOTING BY MEANS OF TEST PITS, REMOTE SENSING OR ANY OTHER METHOD SELECTED BY THE CONTRACTOR. IF OBSTRUCTIONS ARE DETECTED, THE CONTRACTOR SHALL AVOID THEM BY USING THE DRILLED SHAFT FOOTING OR RELOCATING THE SIGN STRUCTURE WITH THE CONSENT OF THE ENGINEER. THE EXPLORATION FOR THE UNDERGROUND OBSTRUCTIONS AND RELOCATION STRUCTURES ARE A SUBSIDIARY OBLIGATION OF THE CONTRACTOR.
2. ON CAST IN PLACE DRILLED SHAFTS, THE CONCRETE SHALL BE POURED AGAINST UNDISTURBED SOIL.
3. THE CONTRACTOR MAY ELECT TO CONSTRUCT A SPREAD FOOTING OR DRILLED SHAFT FOOTING PROVIDED THEY DO NOT CONFLICT WITH UNDERGROUND OBSTRUCTIONS. MAINTENANCE OF TRAFFIC CONSIDERATIONS, ROCK LAYER OR ANY OTHER SITE CONSTRAINTS IF SITE CONSTRAINTS PREVENT THE USE OF A TYPE OF FOOTING, THE CONTRACTOR SHALL DESIGN AND CONSTRUCT A MODIFIED FOOTING SUITABLE TO THE SITE AS A SUBSIDIARY OBLIGATION AND SUBJECT TO THE APPROVAL OF THE AUTHORITY.
4. REINFORCING STEEL SHALL BE TIED IN CONFORMANCE WITH SPECIFICATION 602. COLD-DRAWN STEEL WIRE SHALL BE IN CONFORMANCE WITH AASHTO M 32 (ASTM A 82).
5. THE CONTRACTOR MAY ELECT TO FURNISH A PRECAST BASE IN LIEU OF CAST IN PLACE FOUNDATION.
6. EXCAVATION SHALL BE PERFORMED USING AN AUGER WITH A DIAMETER NOT GREATER THAN 1000 MILLIMETERS.
7. AFTER THE PRECAST CONCRETE BASE HAS BEEN LEVELLED TO A DEVIATION FROM LEVEL NOT GREATER THAN 3 MILLIMETERS WITHIN THE BASE DIAMETER, THE EXCAVATION SHALL BE BACKFILLED USING SATURATED CLEAN SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.



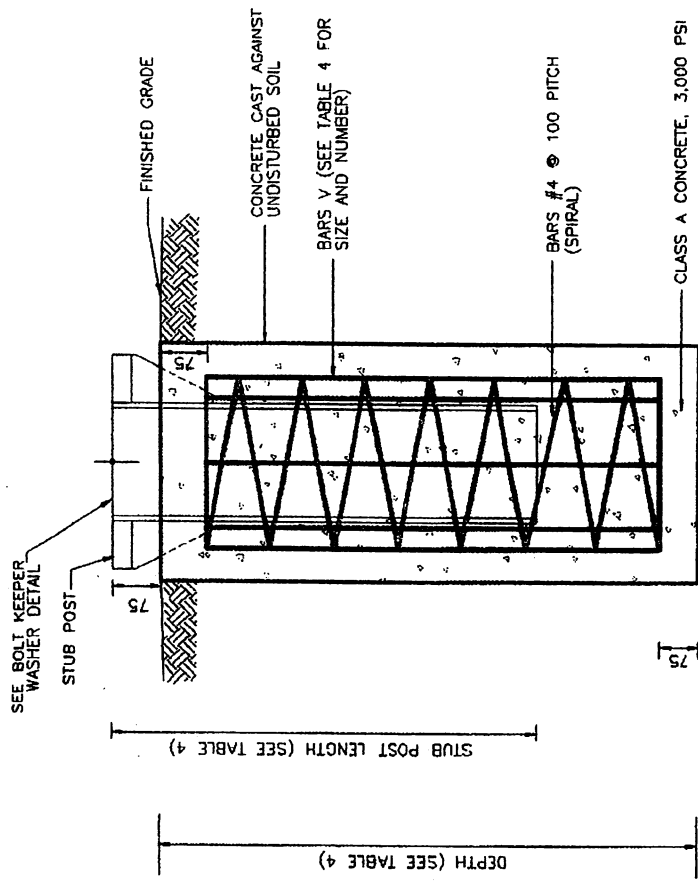
TOP VIEW

CAST IN PLACE AND PRECAST

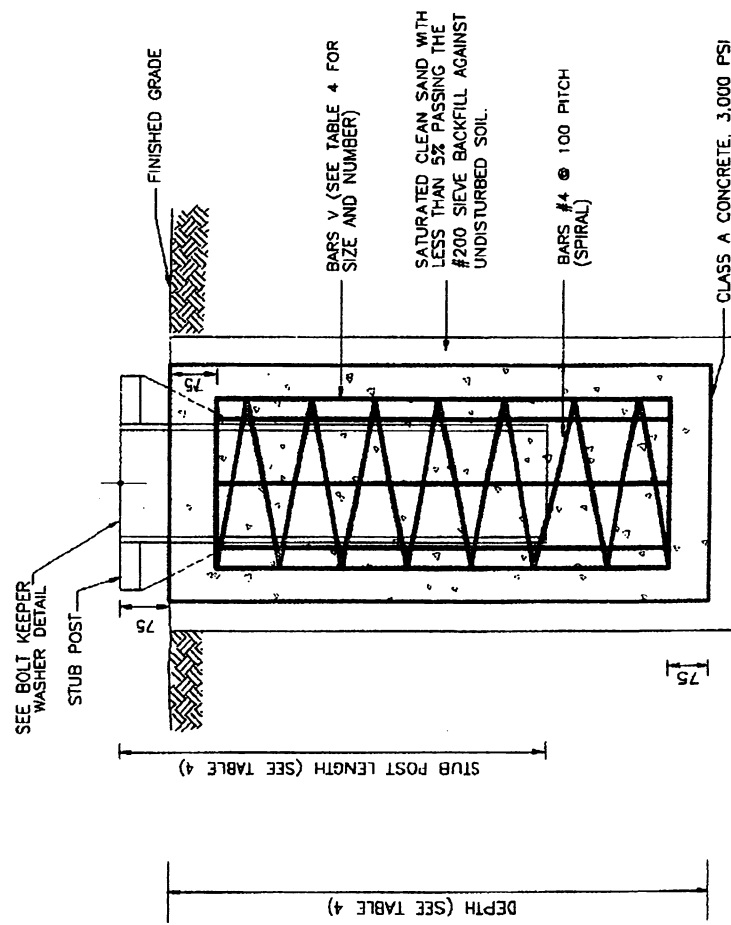
TABLE 4

POST SECTION	DIAMETER (MTS)	DEPTH (MTS)	STUB LENGTH (MTS)	REINFORCEMENT BARS V
W6x12	0.60	2.30	0.70	10 - #7
W8x15	0.60	3.00	0.85	10 - #7
W8x18	0.90	2.70	1.00	12 - #8
W10x17	0.90	3.30	1.20	12 - #8
W10x22	0.90	3.75	1.40	12 - #8
W12x40	0.90	4.35	1.70	12 - #8

FOUNDATION DATA



**ELEVATION VIEW
CAST IN PLACE**



**ELEVATION VIEW
PRECAST**

STUB POST SHALL BE CAST WITH PRECAST FOUNDATION

EFFECTIVE DATE: JULY 2000

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

**GROUND MOUNTED
BREAK-AWAY SIGNS**

FOUNDATIONS
DRILLED SHAFTS

RECOMMENDED BY:
DEPUTY EXEC. DIR. FOR
TRAFFIC AND TOLL ROADS
DATE: 10-11-00

APPROVED BY:
EXECUTIVE DIRECTOR
DATE: 11/07/00

DATE: 05-2000

REVISION
GENERAL REVISION

BY: I.V.

STD. GMTS
DWG. 8 OF 15