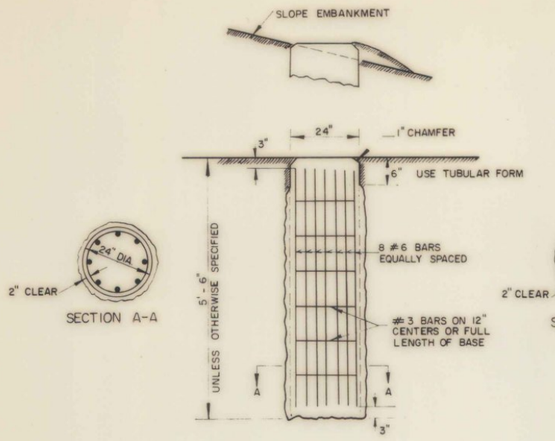
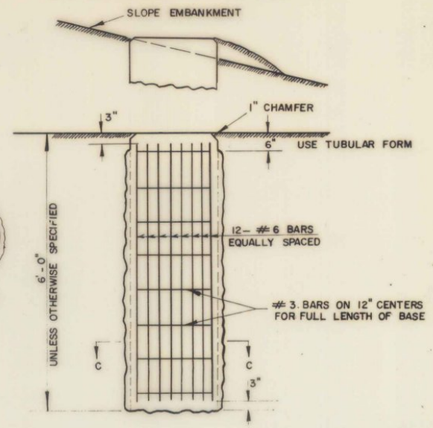
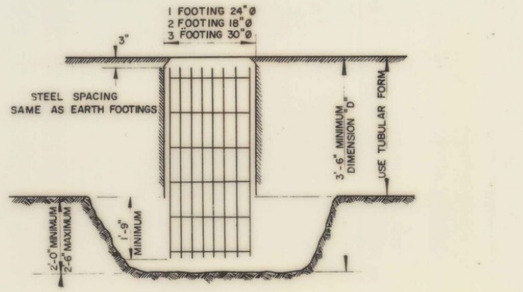
24" DIAMETER "1" FOOTING



30" DIAMETER "3" FOOTING

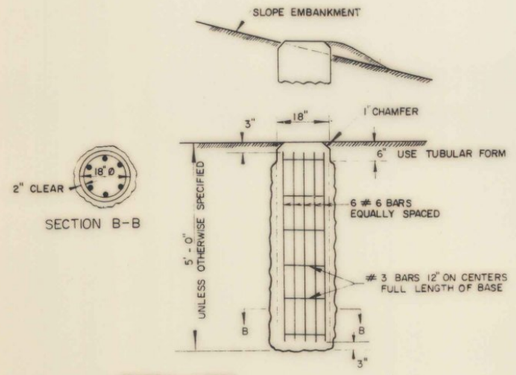


LEDGE FOUNDATION



EXCEPT — TOTAL DIMENSION "D" FOR (1) FOOTING SHALL NOT EXCEED 6'-0"
TOTAL DIMENSION "D" FOR (2) FOOTING SHALL NOT EXCEED 5'-0"
TOTAL DIMENSION "D" FOR (3) FOOTING SHALL NOT EXCEED 6'-0"

18" DIAMETER "2" FOOTING



GENERAL NOTES

1.- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED APRIL 1964 WITH CURRENT MODIFICATIONS..

2.- FOUR HIGH STRENGTH STEEL ANCHOR BOLTS HAVING A TYPICAL TENSILE YIELD STRENGTH OF 55,000 P.S.I. AND AN ULTIMATE OF 85,000 P.S.I. AND EACH FITTED WITH 2 HEX NUTS SHALL BE FURNISHED WITH EACH POLE. EACH ANCHOR BOLT SHALL HAVE AN "L" BEND AT THE BOTTOM AND BE THREADED AT THE TOP END. THREADED ENDS, AND ALL NUTS SHALL BE GALVANIZED. THE ANCHOR BOLTS SHALL BE CAPABLE OF RESISTING AT YIELD STRENGTH STRESS THE FULL BENDING MOMENT OF THE SHAFT AT ITS YIELD STRENGTH STRESS.

3.- DESIGN STRESS: CONCRETE Fc EQUALS 1,200 P.S.I. REINFORCING STEEL, EQUALS 20,000 P.S.I.
CONCRETE Fc EQUALS 3,000 P.S.I.

4.- WIND ON EXPOSED TRUSS AND SIGNS EQUALS 25 # PER SQ. FT.

5.- MAXIMUM FOUNDATION PRESSURE EQUALS ONE AND ONE HALF (1 1/2) TONS PER SQUARE FT.

6.- CHANGES IN THE DESIGN DETAILS SHOWN HERE OR THE USE OF OTHER MATERIALS OR DESIGNS MEETING REQUIREMENTS STATED ABOVE, MAY BE PERMITTED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

7.- FOR ALL OTHER DESIGN AND CONSTRUCTION CRITERIA REFER TO STANDARD SHEET E-21

A	B	C	D	E	F	T	H
4"	7'-8"	5'-5 5/8"	8"	1 5/8"	4 7/8"	3/4"	48"
5"	8'-9"	5 5/8"-6 3/8"	9 9/16"	1 3/4"	3 1/4"	3/4"	48"
6"	9'-10"	6 3/8"-7 1/16"	10 1/4"	2 1/4"	3 1/2"	1"	48"
7"	10'-11"	7 1/16"-7 3/4"	11"	2 3/4"	3 1/2"	1"	48"
8"	11'-12"	7 3/4"-8 1/2"	12"	2 3/4"	3 1/2"	1"	48"
10"	15'-16"	10 19/32"-11 5/16"	16"	3 1/4"	5"	1 1/4"	48"
12"	18"	12 3/4"	18"	3 1/2"	6"	1 1/4"	48"
12" H.D.	18"	12 3/4"	18"	4"	6 1/2"	1 1/4"	48"

POSTS

THE POSTS FOR THESE INSTALLATIONS SHALL BE EXTRUDED TUBULAR POSTS OF ALUMINUM ALLOY 6061-T6.

HARDWARE

THE ASSEMBLY HARDWARE USED TO FASTEN A SIGN TO THE POSTS SHALL BE ALUMINUM OR STAINLESS STEEL OF A STANDARD COMMERCIAL DESIGN APPROVED BY THE DEPARTMENT.

THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO BE APPROVED BY THE DEPARTMENT.

ERECTION

ALL POSTS SHALL BE PLUMB AND LOCATED AS SPECIFIED BY DRAWINGS OR BY ENGINEER IN THE FIELD.

LOCK NUTS ON 3/8"-16 ALUMINUM POST BOLT CLIPS SHALL BE TORQUED TO 225 INCH POUNDS WHEN USING DRY CLEAN UNLUBRICATED THREADS.

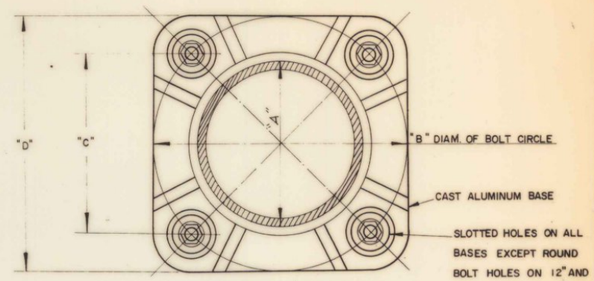
WELDING WIRE

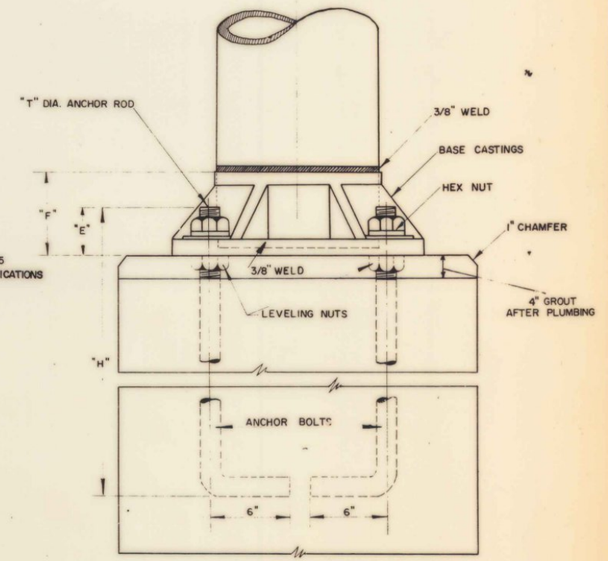
ALL ALUMINUM WELD WIRE SHALL BE 4043 ALUMINUM ALLOY A.S.T.M. NO. R-S 5 OR E-S 5 B) AND SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT SPECIFICATIONS FOR ALUMINUM AND ALUMINUM ALLOY WELDING WIRE AND BASE ELECTRODES A.S.T.M. DESIGNATION R-285.

TYPE "D" FOOTING

THE CONTRACTOR SHALL SUBMIT THE SIZES OF BREAKAWAY ALUMINUM TUBES WITH CAST BASES WHICH HE PROPOSES TO USE AT THE SPECIFIED LOCATIONS TO THE DEPARTMENT FOR APPROVAL.

CAST ALUMINUM BASE DETAIL





SHOE BASE

(SUPPLIED WITH FOUR CAST ALUMINUM ALLOY BOLT COVERS)

THE SHOE BASE (ANCHOR BASE) CASTINGS SHALL BE EITHER PERMANENT MOLD CASTINGS OF 356-F ALUMINUM ALLOY CONFORMING TO THE REQUIREMENTS OF THE CURRENT SPECIFICATIONS FOR ALUMINUM ALLOY PERMANENT MOLD CASTINGS A.S.T.M. DESIGNATION B-108 OR SHALL BE SAND CASTINGS OF 356-F ALUMINUM ALLOY CONFORMING TO THE REQUIREMENTS OF THE CURRENT SPECIFICATIONS FOR ALUMINUM ALLOY SAND CASTINGS A.S.T.M. DESIGNATION B-26

REVISIONS AND CORRECTIONS

APPROVED DATE MARCH 6, 1968

R. H. Crowld — CHIEF ENGINEER

E. W. Stickney — ASST. CHIEF ENGINEER

A. W. Coleman — TRAFFIC ENGINEER

L. M. Lane — HIGHWAY ENGINEER

CONSTRUCTION ENGINEER

TRAFFIC SIGNS

BREAKAWAY TYPE TUBULAR ALUMINUM SIGN SUPPORTS WITH CAST BASES

VERMONT DEPARTMENT OF HIGHWAYS STANDARD

E-24