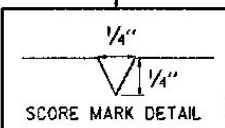


SEE NOTE 5 FOR DRAINAGE

**ELEVATION**

STEEL COVER "A" DIMENSION

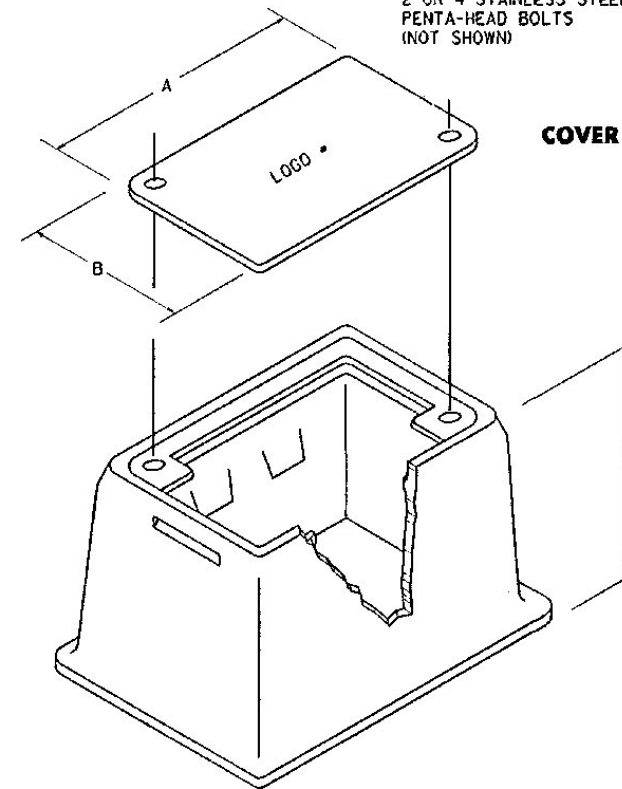
SLOPE	A	USE SLOPE CLOSEST TO FIELD CONDITIONS
1-2	25"	
1-3	24"	
1-4-6	23"	
1-10	22"	



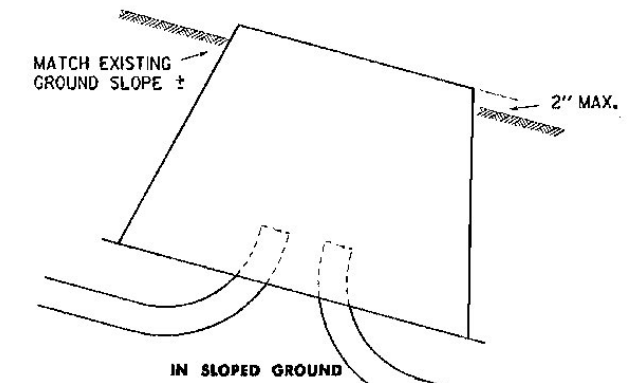
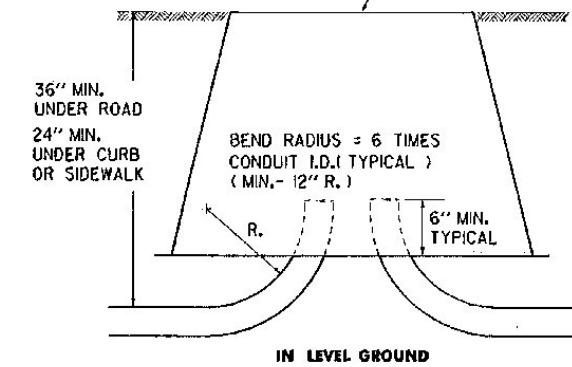
- ALTERNATE LOGOS
- TRAFFIC SIGNAL
- RAILWAY SIGNAL
- ELECTRIC
- STREET LIGHTING
- TRAFFIC CONTROL

LOGO APPLICATION BY MANUFACTURER WITH TEXT AS SHOWN ON PLANS.

COVER TO BE HELD IN PLACE BY 2 OR 4 STAINLESS STEEL PENTA-HEAD BOLTS (NOT SHOWN)



FLUSH IN PEDESTRIAN AREAS OR WHERE EXPOSED TO PLOWING, 1"-2" ABOVE GROUND IN OTHER AREAS



DIMENSIONS A THRU C AS SHOWN ON THE PLANS. (SHAPE MAY VARY WITH MANUFACTURER)

**JUNCTION BOX & PULL BOX NOTES**

- ALL PULL BOXES TO BE CONCRETE, CLASS B.
- SCORE TOP OF PULL BOXES TO SHOW LOCATION OF CONDUIT (S).
- FOR PULL BOXES PROVIDE CLOSED CELL FERRULES IN CONCRETE BELOW THREADED HOLES IN THE COVER FRAME TO PERMIT RETHEADING AT A FUTURE DATE. THE FERRULE SHALL BE WELDED TO THE 3" X 3" X 1/4" ANGLE.
- CONDUIT SIZE AS SHOWN ON THE PLANS.
- EXCAVATION FOR THE UNITS, SHALL INCLUDE EXCAVATION OF AN AREA ONE FOOT OUTSIDE THE UNITS AND EXTENDING ONE FOOT BELOW THE FINISH GRADE OF THE BOTTOM OF THE UNITS. ONE FOOT OF GRANULAR MATERIAL SHALL BE PLACED IN THE EXCAVATED AREA PRIOR TO INSTALLATION. WHERE NECESSARY AND AT THE DISCRETION OF THE ENGINEER, A DRAINAGE CHANNEL SHALL BE PROVIDED FROM THE UNIT TO THE DITCH. PAYMENT SHALL BE SUBSIDIARY TO UNITS. IF ADDITIONAL DRAINAGE IS REQUIRED BY THE ENGINEER (FOR EXAMPLE, UNDERDRAIN), IT SHALL BE PAID AT UNIT PRICE FOR THAT ITEM.
- ALL EXPOSED METAL HARDWARE, INCLUDING PULLBOX COVERS, FRAMES & ANGLES, SHALL BE GALVANIZED OR STAINLESS STEEL.
- SEE STANDARD SPECIFICATIONS, FOR JUNCTION BOX MATERIAL REQUIREMENTS. THE COVER LOADING SHALL BE MODIFIED TO 15000 POUNDS OVER A 10" X 10" AREA.
- ALL CONDUIT SHALL ENTER JUNCTION BOXES FROM THE BOTTOM, NOT THRU THE SIDE WALL.

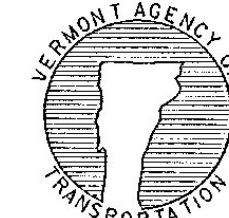
**REVISIONS AND CORRECTIONS**

APRIL 1, 1989 - REVISED COVER DIMENSIONS  
MAY 26, 1989 - FHWA COMMENTS

**APPROVED**

SEPT. 10, 1987  
DATE  
David B. Kelley  
CHIEF ENGINEER  
Arthur J. Ryan  
DIRECTOR OF PLANNING AND PRE-CONSTRUCTION  
Gordon B. MacArthur  
TRAFFIC AND SAFETY ENGINEER

**PULL BOXES AND JUNCTION BOXES**



**STANDARD E-173**