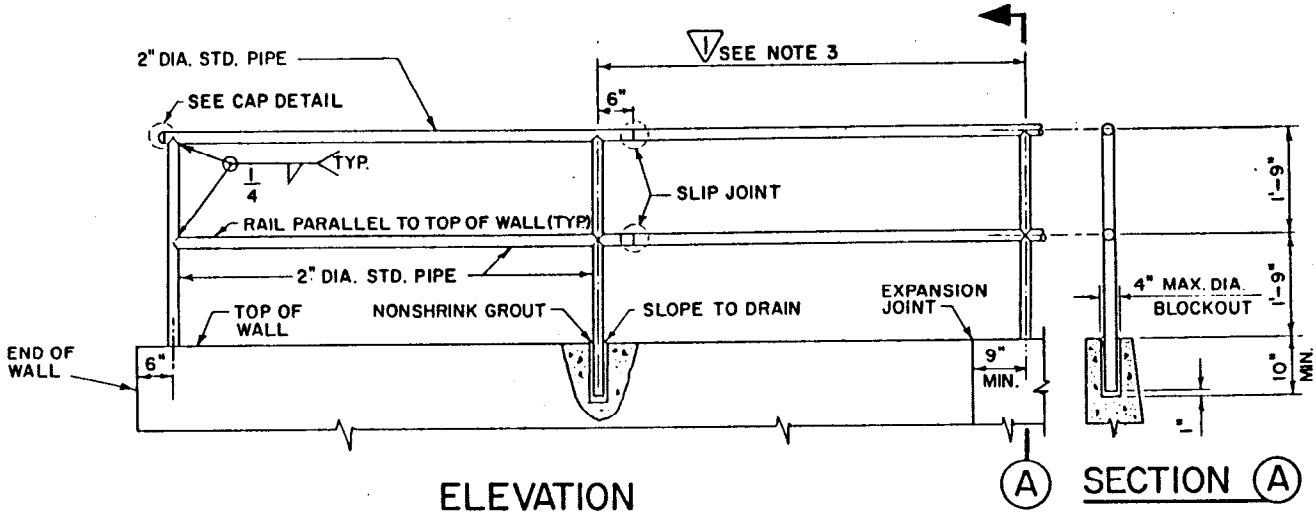
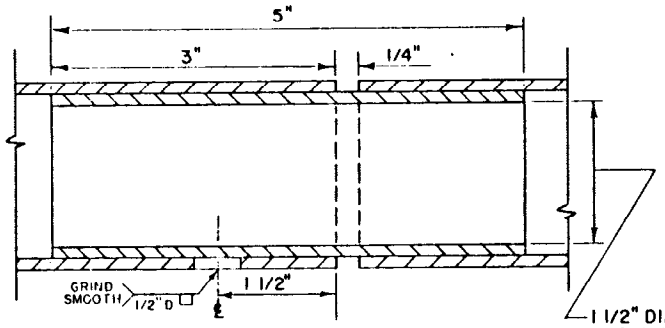
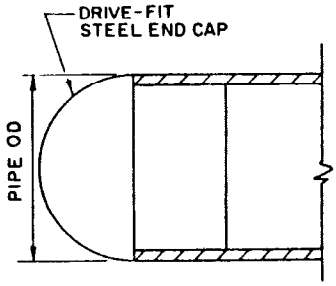


ELEVATION OPTION A

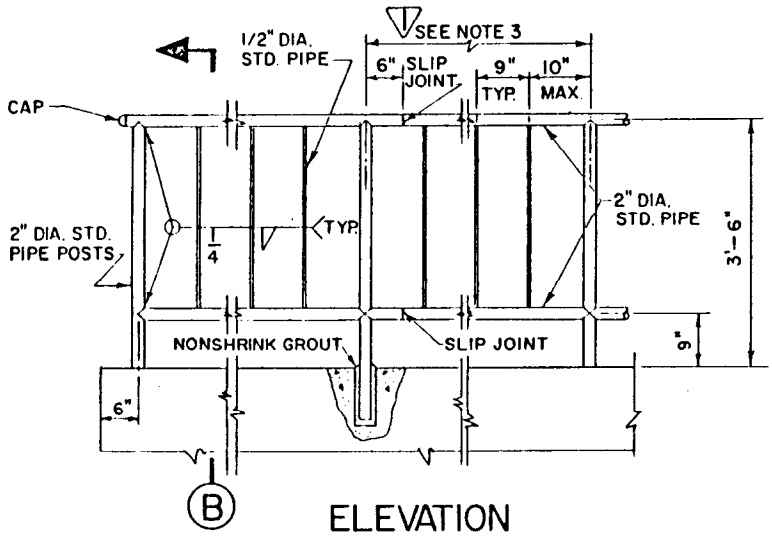
SECTION A



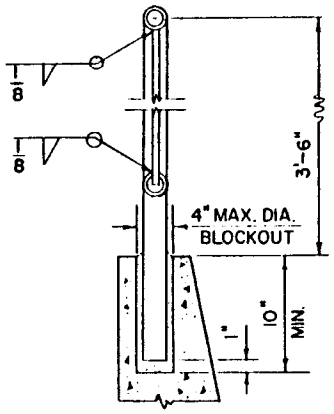
SLIP JOINT DETAIL



CAP DETAIL FOR RAIL END



ELEVATION OPTION B



SECTION B

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING — CITY OF LOS ANGELES

PIPE HANDRAILS

STANDARD PLAN S-463-1

SUBMITTED Oct 22, 1980
ENGINEER OF DESIGN
Robert S. Rossi
DEPUTY ENGINEER

APPROVED October 3, 1980
Donald D. Tillman
CITY ENGINEER

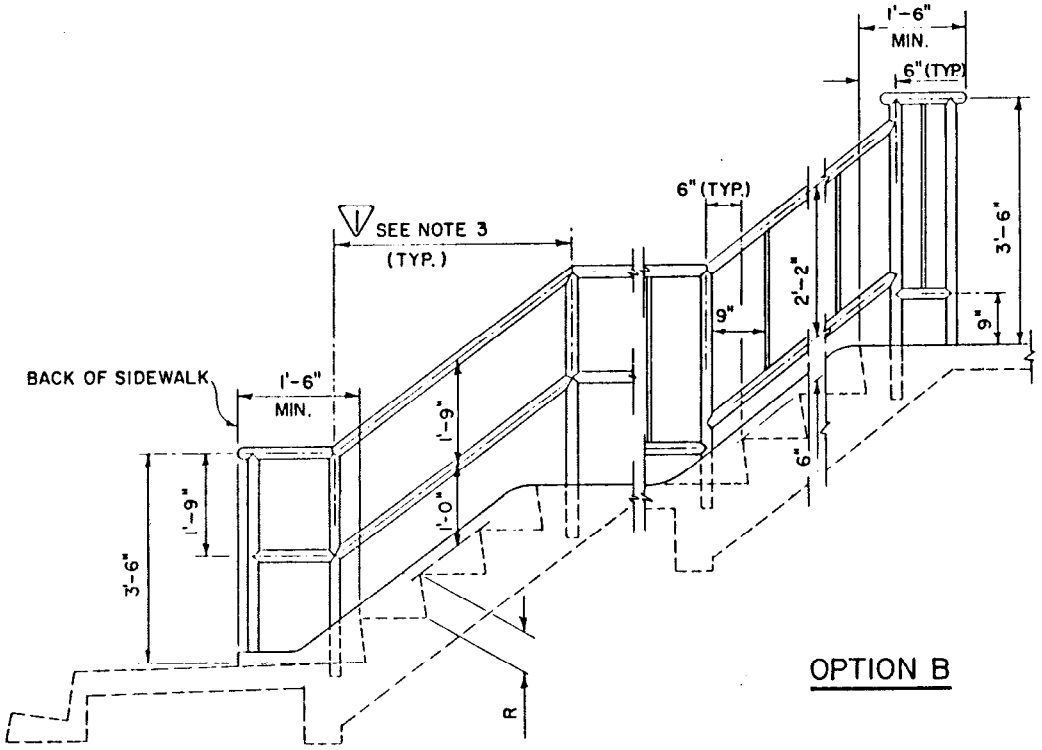
DESIGNED BY	DRAWN BY	CHECKED BY
A G	R G M	A G

REVISIONS				
NO.	DATE	DESCRIPTION	ENG'R OF DESIGN	CITY ENG'R.
1	1-17-83	CHANGED NOTE 3 ON SHEET 2.	George Stead	Phil Kraus

SUPERSEDES	REFERENCES
B-4002	S-525

VAULT INDEX NUMBER B-4058

SHEET 1 OF 2 SHEETS



OPTION B

OPTION A

HANDRAIL INSTALLATION ON STAIRWAYS

NOTES:

1. ALL RAILING COMPONENTS SHALL BE STANDARD STEEL PIPE.
2. PROVIDE SLIP JOINTS AT STAIRWAY EXPANSION JOINTS AND AT EVERY 24 FEET ON CENTER MAXIMUM.
3. MAXIMUM SPACING OF POSTS SHALL BE 7 FEET ON STRAIGHT ALIGNMENTS AND 6 FEET ON CURVED ALIGNMENTS LESS THAN 30 FEET RADIUS. SPACING SHALL BE UNIFORM BETWEEN CHANGES IN ALIGNMENT.
4. ALL WELDS SHALL BE GROUND SMOOTH.
5. HANDRAIL UNITS SHALL BE GALVANIZED AFTER FABRICATION.
6. OPTION B SHALL BE USED WHERE ADJACENT GRADE IS MORE THAN 2'-6" BELOW THE LANDING OR SIDEWALK FINISHED SURFACE.