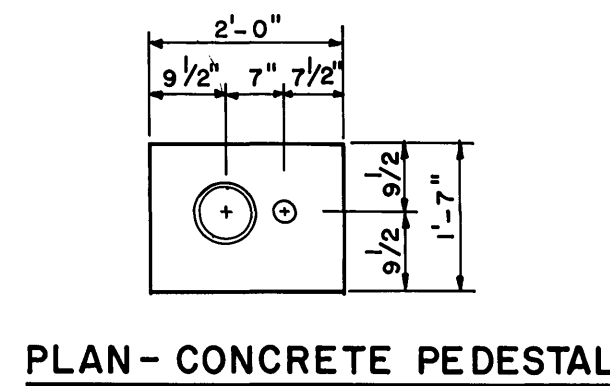
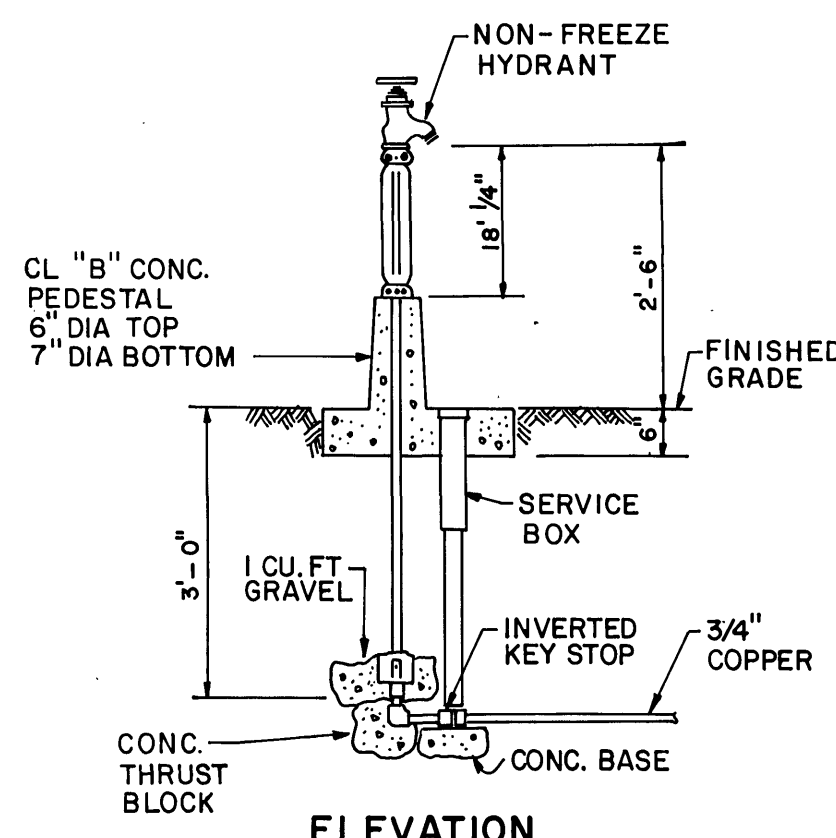




PLAN - CONCRETE PEDESTAL

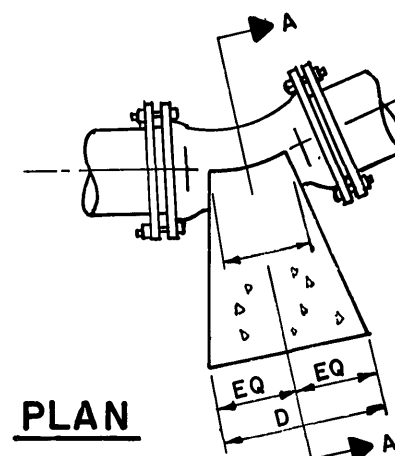


ELEVATION

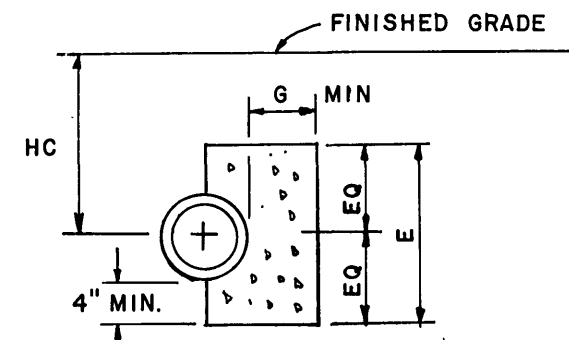
DETAIL

NON-FREEZE HYDRANT

N.T.S.



PLAN

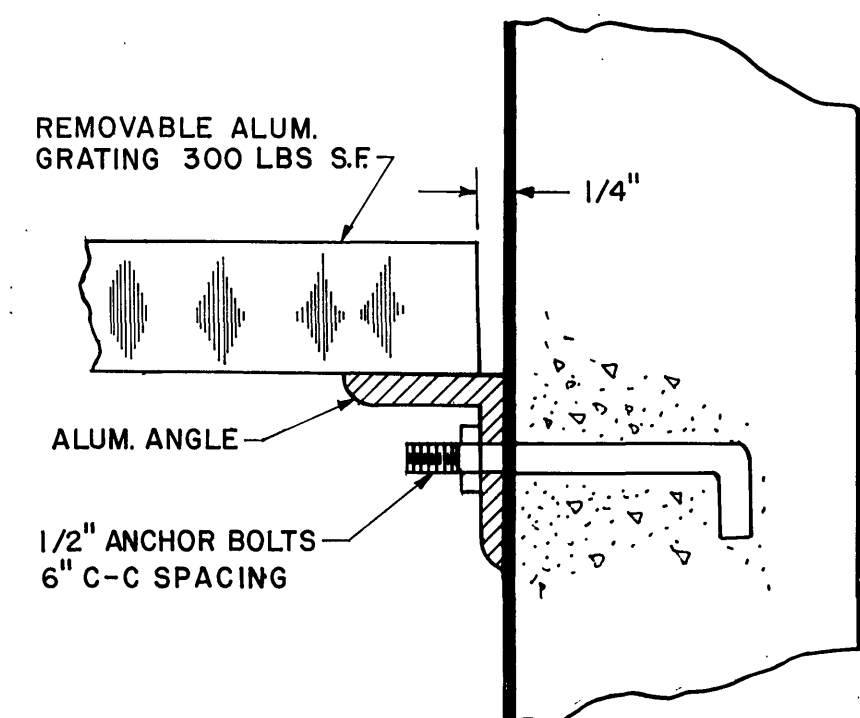


SECTION AA

Soil Properties	SIZE	Concrete Block Dimensions at 150 PSI Pressure	Add To Dimension D For Each Additional 50 PSI Pressure up to 300 PSI	Adjustment For Conc. Area For Diff. Height (H) to be Measured From Grade to C of Pipe
CS-1000 PSF	3"	9"	1'-0"	6"
CLAY OR BETTER	4"	9"	1'-0"	6"
CLAY OR BETTER	6"	1'-0"	1'-2"	6"
CLAY OR BETTER	8"	1'-0"	1'-4"	8"
CLAY OR BETTER	10"	1'-0"	1'-6"	8"
CLAY OR BETTER	12"	1'-0"	1'-8"	8"
CLAY OR BETTER	14"	1'-0"	2'-0"	8"
CLAY OR BETTER	16"	1'-0"	2'-2"	8"
CLAY OR BETTER	18"	1'-0"	2'-4"	8"
CLAY OR BETTER	20"	1'-0"	2'-6"	8"

BUTTRESSES FOR 45° HORIZONTAL BEND

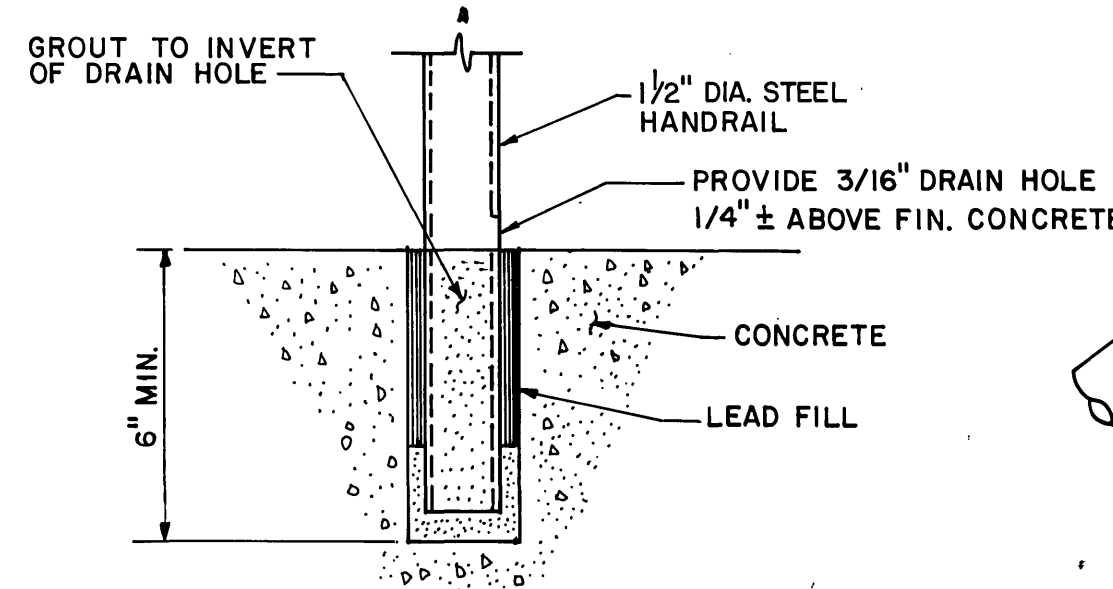
N.T.S.



DETAIL

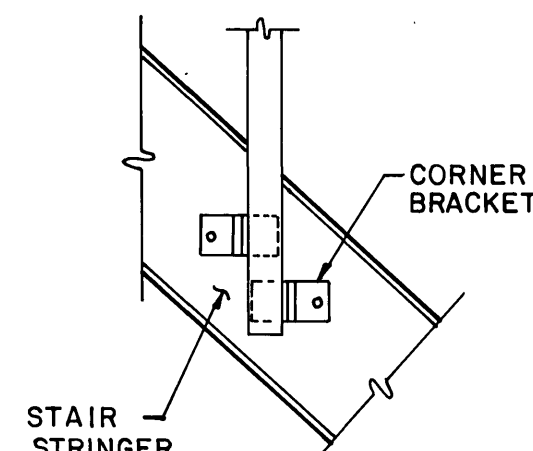
GRATING SUPPORT AT WALL

N.T.S.



HANDRAIL ANCHORAGE DETAIL

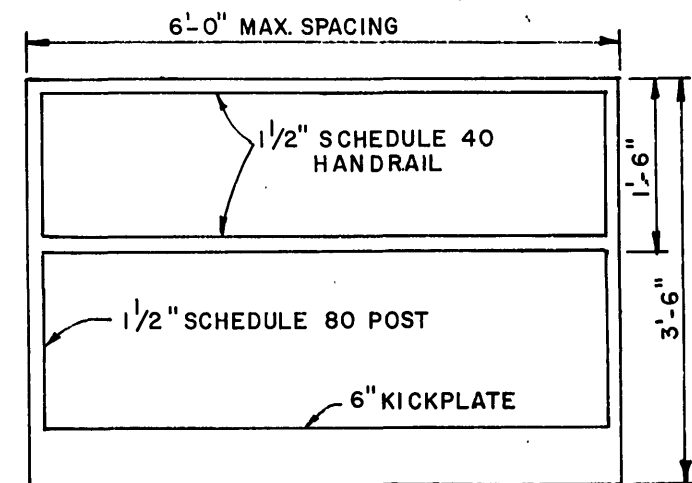
N.T.S.



STAIRWAY

HANDRAIL MOUNTING DETAILS

N.T.S.

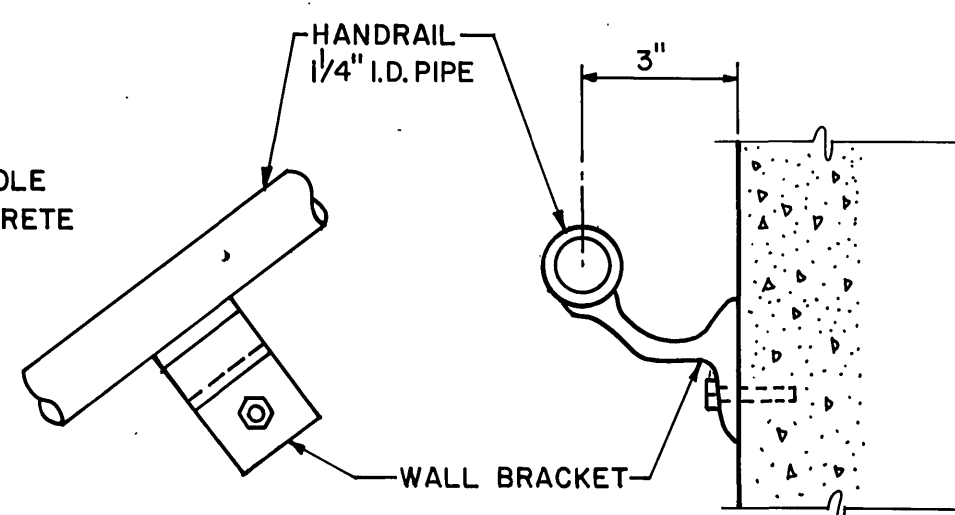


HANDRAIL DETAIL

N.T.S.

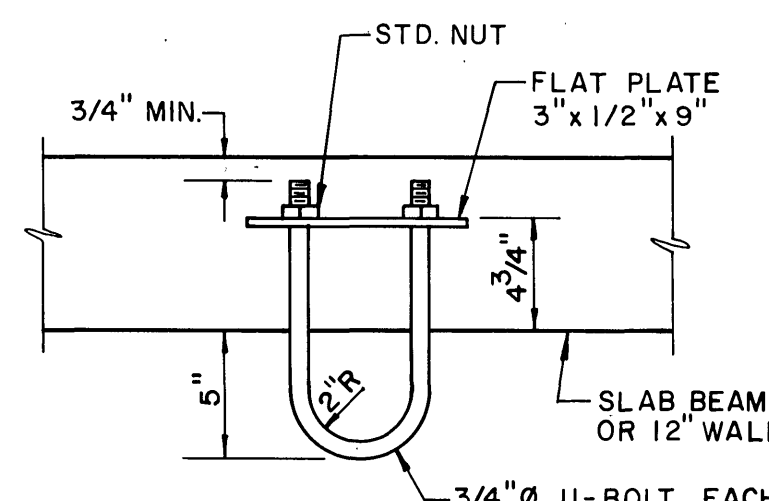
DIMENSION D & E SHALL BE ADJUSTED FOR REQUIRED AREA. DIMENSION F & G SHALL REMAIN SAME. DIMENSION D SHALL BE ADJUSTED FOR REQUIRED PRESSURE IN EXCESS OF 150 PSI BEFORE MAKING ADJUSTMENT FOR HEIGHT.

NOTE: USE ALSO FOR ALL BENDS LESS THAN 45° UNLESS FIRM BEARING CANNOT BE OBTAINED. USE MECHANICAL JOINT RETAINER GLAND AS DIRECTED OR WHERE BEARING CANNOT BE OBTAINED, SEE DETAIL RIGHT.



WALL BRACKET DETAIL

N.T.S.

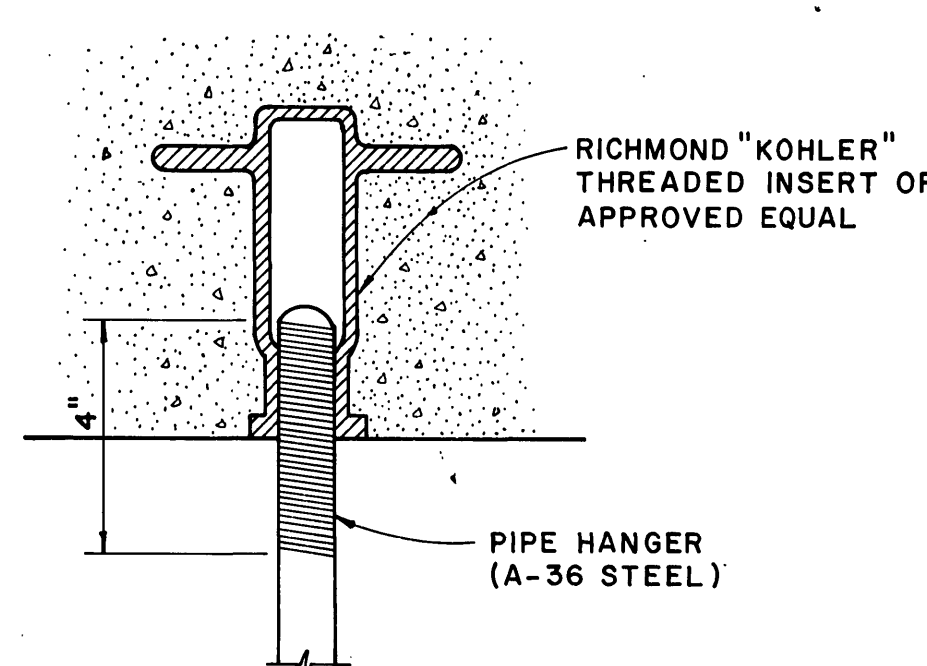


NOTE:

ALL METAL TO BE GALVANIZED STEEL

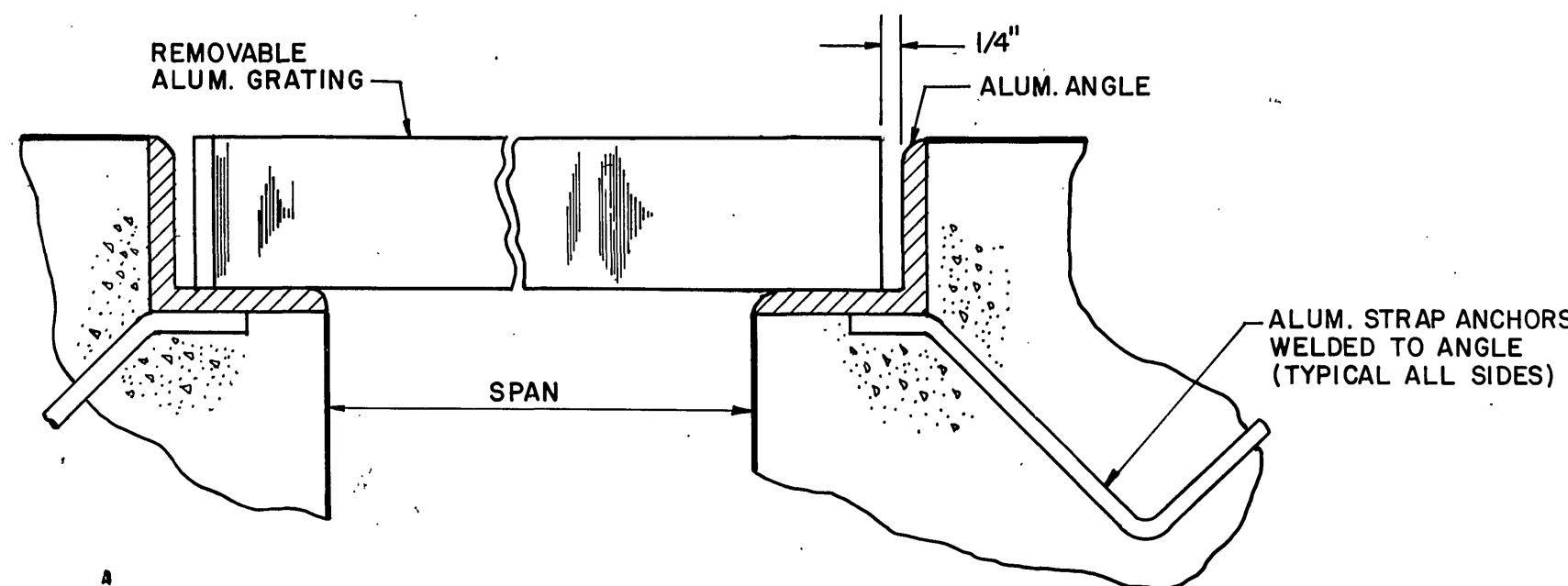
PULLING LUG DETAIL

N.T.S.



PIPE HANGER INSERT DETAIL

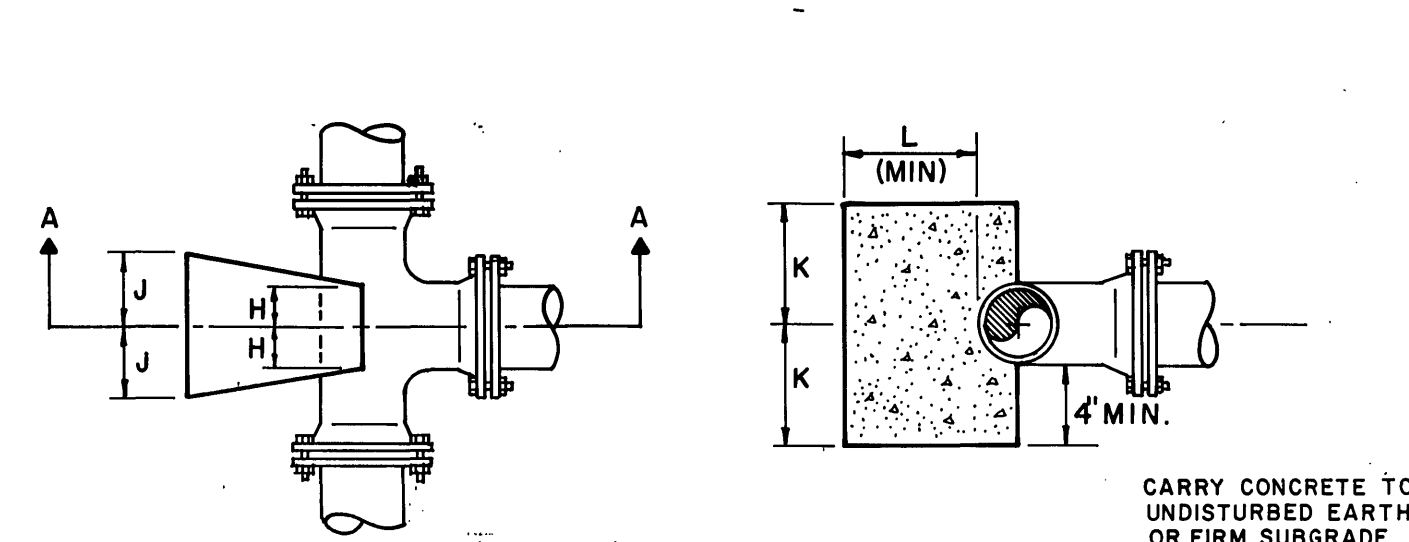
N.T.S.



DETAIL

REMOVABLE ALUMINUM GRATING

N.T.S.



PLAN

SECTION AA

	3"	4"	6"	8"
J	6"	6"	8"	9"
K	6"	8"	10"	15"
L	6"	6"	8"	9"
H	4"	4"	6"	6"

AREA OF BLOCK = 2J x 2K

NOTE:

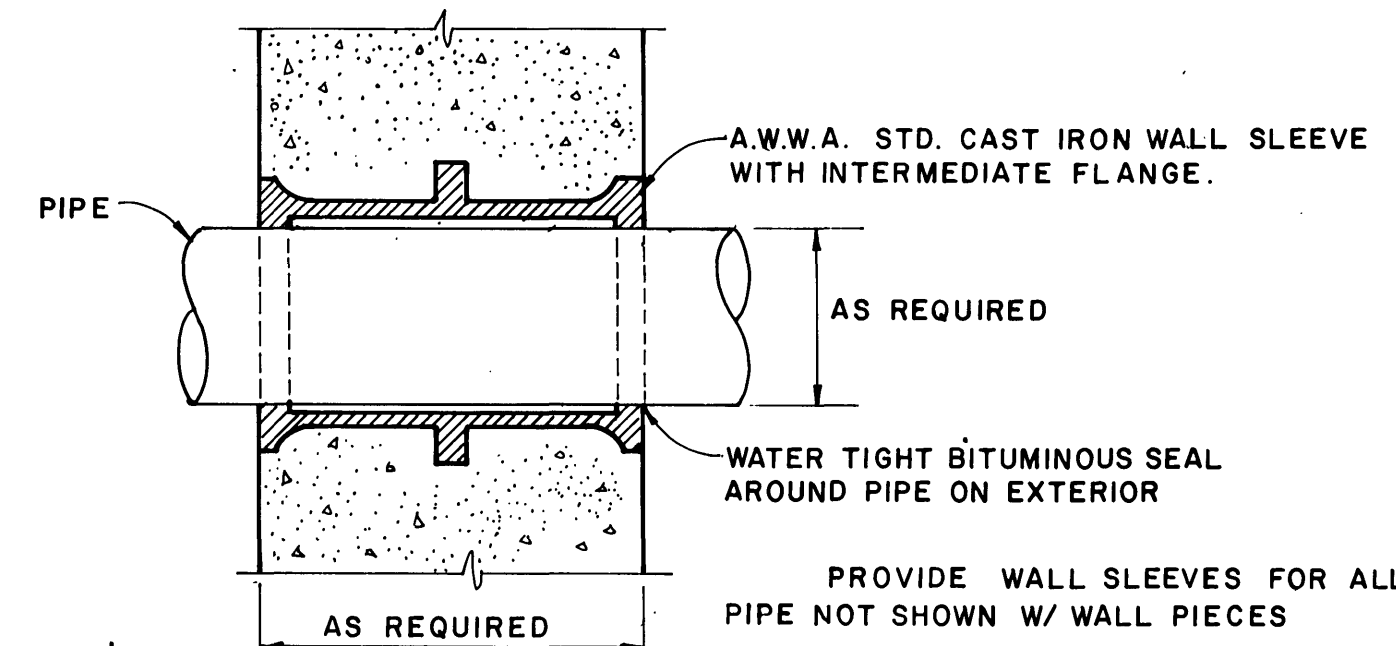
TAPPING ASSEMBLIES & SLEEVES TO BE CONC. BLOCKED AS COMPARABLE SIZE TEES.

NOTES:

1. Fc = 3000 PSI AT 28 DAYS.
2. THE BUTTRESS DIMENSIONS ARE BASED ON THE WATER PRESSURE OF 150 PSL WHERE THE PRESSURE IS DIFFERENT, THE AREA OF BLOCK SHALL BE PROPORTIONED TO REQUIRED PRESSURE.
3. CARRY ALL BEARING SURFACES TO UNDISTURBED GRND. OR FIRM SUBGRADE.

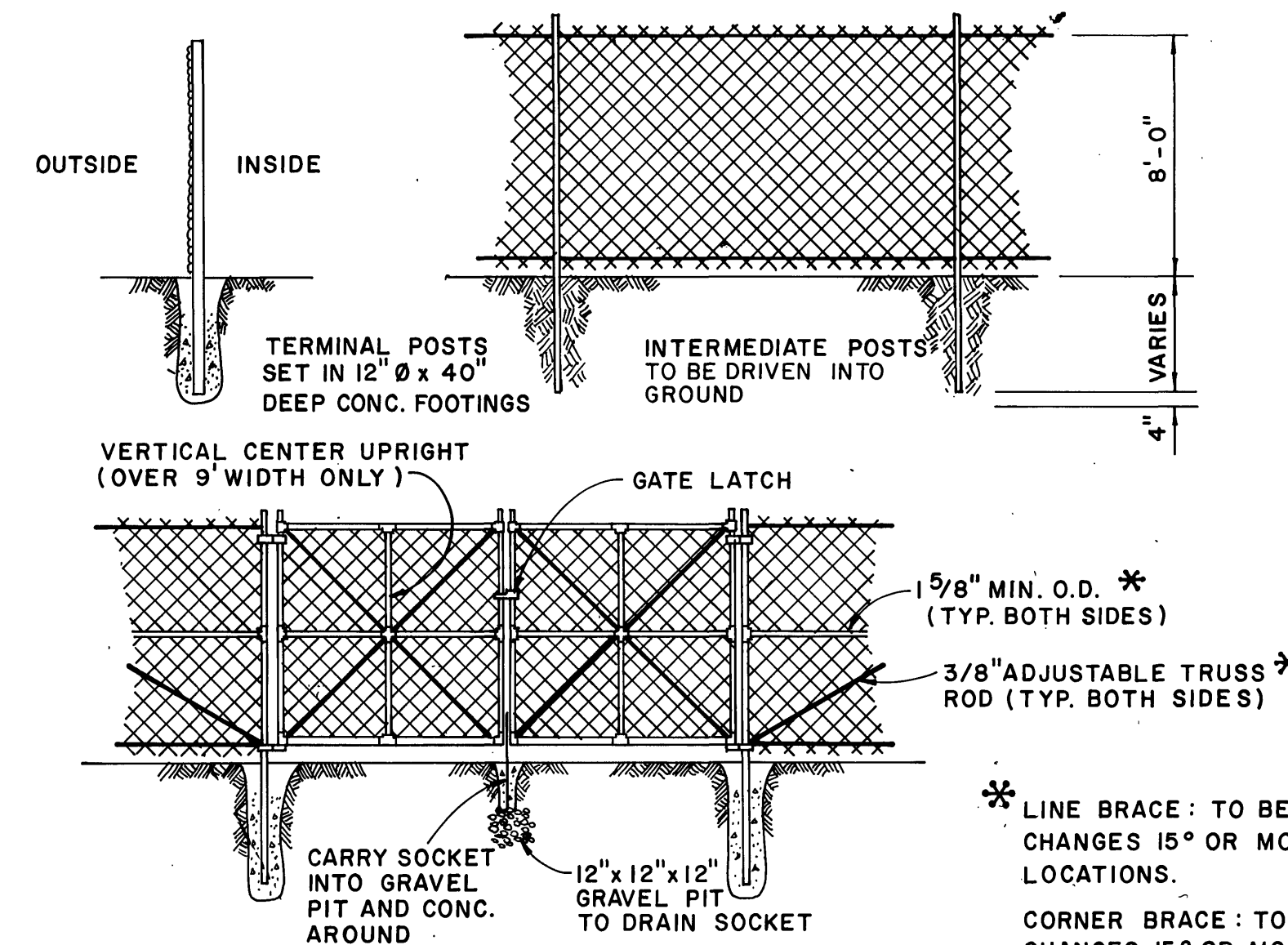
BUTTRESSES FOR TEES

N.T.S.



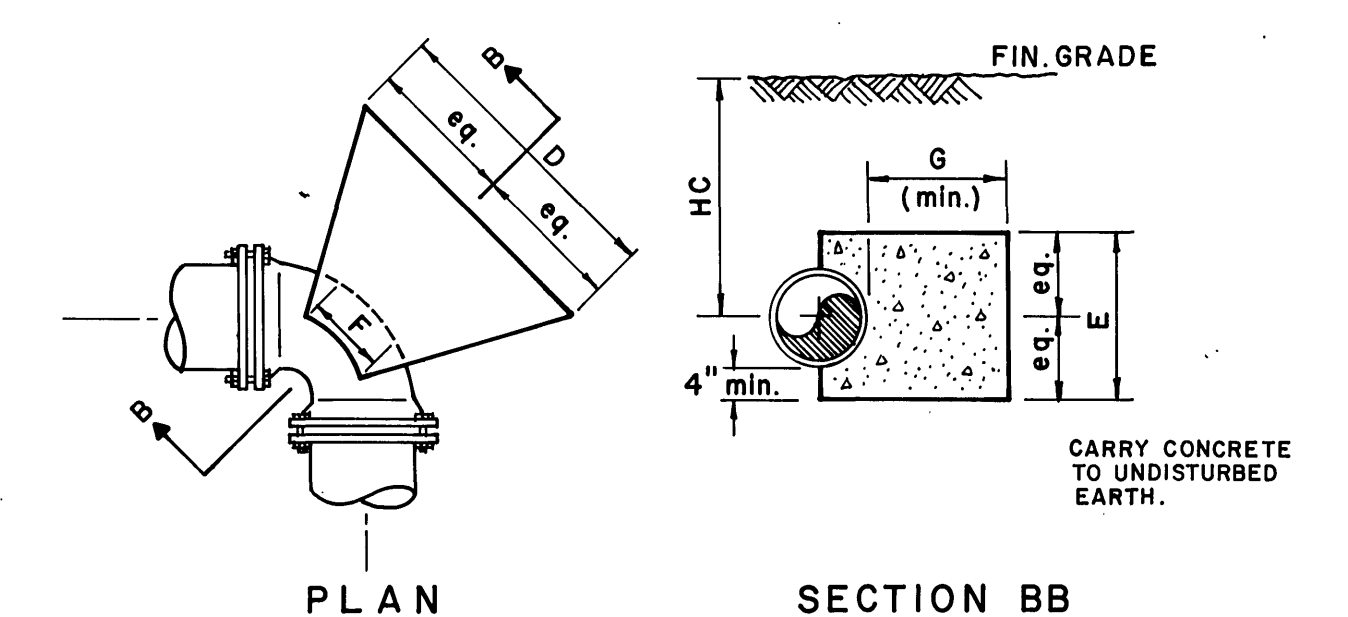
CAST IRON WALL SLEEVE

N.T.S.



CHAIN LINK FENCE DETAIL

N.T.S.



PLAN

SECTION BB

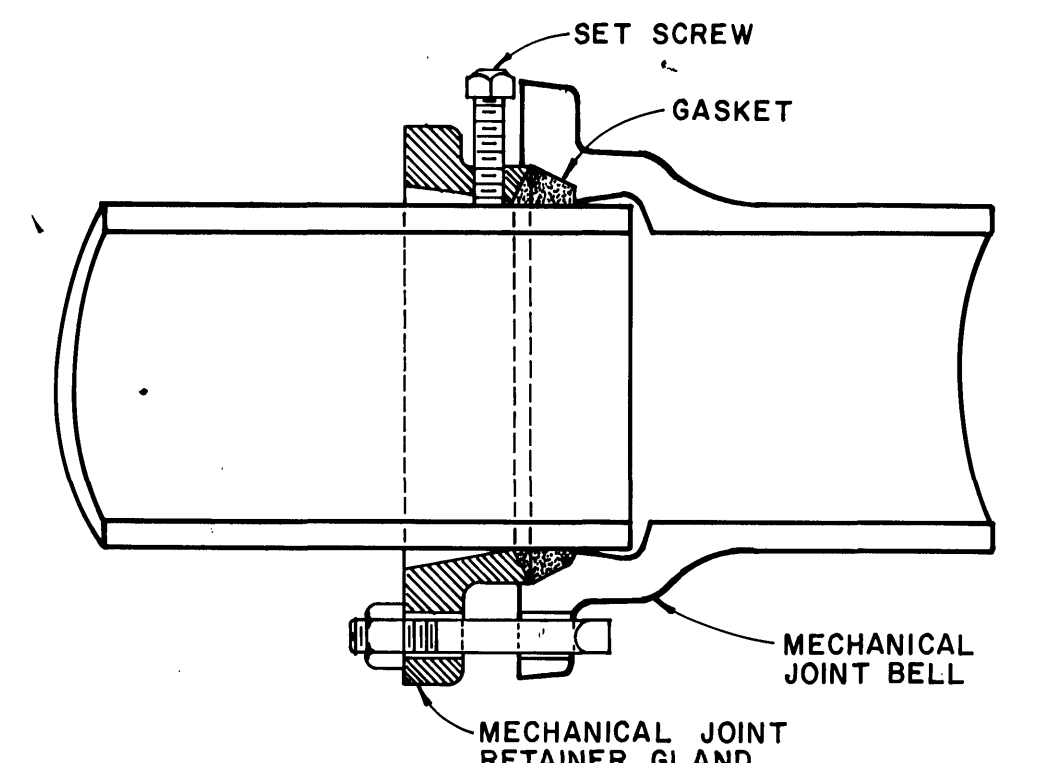
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CLAY OR BETTER	20"	1'-0"	2'-6"	8"

DIMENSION D & E SHALL BE ADJUSTED FOR REQUIRED AREA. DIMENSION F & G SHALL REMAIN SAME.

DIMENSION D SHALL BE ADJUSTED FOR REQUIRED PRESSURE IN EXCESS OF 150 PSI BEFORE MAKING ADJUSTMENT FOR HEIGHT. SPECIAL DESIGN REQUIRED.

BUTTRESSES FOR 90° HORIZONTAL BEND

N.T.S.



MECHANICAL JOINT RETAINER GLAND

N.T.S.

SIZE INCHES	NO. OF SET SCREWS	PRESSURE RATING IN PSI
4"	4	300 PSI
6"	6	300 PSI

NOTES:

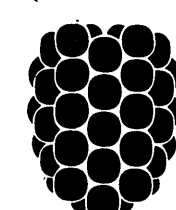
1. ALL SET SCREWS ARE 5/8" SIZE WITH HARDENED CUPPED ENDS AND 5/8" SQUARE HEADS.
2. TIGHTEN SET SCREWS EVENLY TO 80 FT. POUNDS.
3. USE RETAINER GLANDS AS CALLED FOR BY PLANS AND SPECIFICATIONS AND AT ALL BENDS [INCLUDING FITTING(S)] WHERE FIRM BEARING FOR CONCRETE BLOCKING CANNOT BE OBTAINED; EXTEND USE OF RETAINER GLANDS FOR A MIN. DISTANCE OF 40 FT. EACH SIDE OF BEND.

* LINE BRACE: TO BE USED WHEN VERTICAL ALIGNMENT CHANGES 15° OR MORE & AT FENCE ENDS AND GATE LOCATIONS.

CORNER BRACE: TO BE USED WHEN HORIZONTAL ALIGNMENT CHANGES 15° OR MORE. BRACE ON BOTH SIDES. SEE GENERAL NOTES # SHT. 5

NO.	DATE	DESCRIPTION
1		
2		

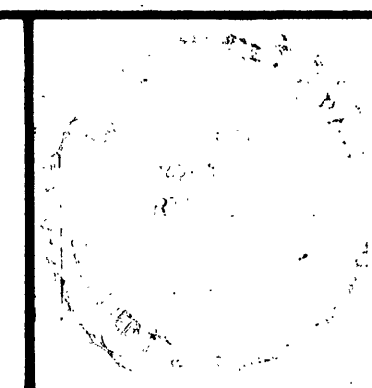
REVISIONS



Dewberry & Davis

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19201 Montgomery Village Ave. Gaithersburg, Md. 20760 Tele. 301-948-4120



PREPARED FOR
CITY OF ROANOKE
ROANOKE, VIRGINIA

CITY OF ROANOKE WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING FACILITIES

MISCELLANEOUS DETAILS

SCALE:
NOT TO SCALE
DATE:
AUG. 1981
DESIGNED BY:
J.B.C.
DRAFTED BY:
DPC / RSR

SHEET
8
OF
33
FILE NUMBER
PP 2967