## CASE 1

### REINFORCED CONCRETE BEAM

FOR 4" TO 24" I.D. PIPE

4 BAR BEAM IS PRECAST)

REINFORCEMENT

(SEE TABLE)

В

### NOTES

- WIOTH OF BEAM SHALL EQUAL O.D. OF SUPPORTED PIPE, MINIMUM WIDTH
- IF SUPPORTED PIPE IS BEDDED IN CONCRETE, BEAM WIDTH SHALL BE EQUAL BEDDING WIDTH.
- IF BEAM IS PRECAST, ENDS OF BEAM SHALL BE FULLY BEDDED IN 420-C-2000 CONCRETE FOR LENGTH "B". THE BEDDING SHALL HAVE A MINIMUM THICKNESS OF 4". CLASS "C" MORTAR SHALL BE PLACED BETWEEN TOP OF BEAM AND SUPPORTED PIPE TO PROVIDE MINIMUM BEARING SHOWN.
- THIS CASE IS PERMITTED ONLY IF THE TRENCH WALLS ARE FIRM AND UNYIELDING.
- MAXIMUM SPACING OF BARS SHALL BE 4" O.C.

#### REINFORCED CONCRETE BEAM (DIMENSIONS AND REINFORMENT)

	PIPE COVER														
s	D' to 8'-0"			8'-1"to 12'-0"			12'-1"to 16'-0"			16'-1"to 20'-0"			20'-1"to 25'-0"		
	T	BARS	В	T	BARS	В	T	BARS	В	T	BARS	В	Ţ	BARS	В
0" to 4'-0"	8"	#4	1'-6"	8"	14	1'-6"	9"	14	1'-6"	10"	#4	1'-6"	10%"	14	1'-6
4'-1" to 5'-0"	8"	14	1'-6"	9½"	14	1'-6"	11"	#4	1'-6"	12"	#4	1'-6"	12%"	15	1'-6
5'-1"to 6'-0"	9"	14	1'-6"	11"	#5	1'-6"	125	<b>/</b> 5	1'-6"	13%	<b>#</b> 5	2'-0"	145	<b>#</b> 5	2'-0
6'-1" to 7'-0"	10"	<b>#</b> 5	1'-6	12%	15	2'-0	14%"	<b>#</b> 5	2'-0"	15½"	15	2'-D"	16%"	#6	5,-0,
7'-1" to 8'-0"	11"	15	1'-6"	14"	<b>#</b> 5	2'0"	16"	<b>#</b> 5	2,-0,	17%"	#6	2'-6"	19"	16	2'-6
8'-1'to 9'-0"	12%	<b>#</b> 5	2'-0"	15½"	16	2'-6"	17½"	<b>#</b> 6	2'-6"	19%"	#6	2'-6"	21"	16	2,-6
9'-1"to 10'-0"	13%"	#6	2'-0"	17	#6	2'-6	19%"	<b>#</b> 6	3,-0,	21%	#6	3,-0,	23"	#6	3,-0,
10'-1"to 11'-0"	14½"	#6	2'-6"	18%	#6	3,-0,	21"	#6	30	23%	<b>#</b> 6	3'-0"	25"	<b>#</b> 7	3,-0,
11'-1"to 12'-0"	15%"	16	2'-6"	20"	#6	3,-0,	23"	#7	3'-6"	25%"	<b>#</b> 7	3'-6	27	17	36
12'-1" to 13'-0"	17"	#6	3'-0"	213	#7	3'-6"	24%	#7	3'-6"	27%	17	4'-0	29"	#7	4'-0
13'-0" to 14'-0"	18"	#7	3'-0"	23"	#7	3'-6"	26%"	#7	4'-0"	29%	#7	4'-0	33%"	17	4'-0
14'-1'to 15'-0"	19"	#7	30.	25"	17	4'-0"	28"	17	4'-0"	31%	#7	4'-6"			
15'-1"to 16'-0"	20%"	#7	3'-6"	26½"	17	4'-0"	30"	#8	4'-6"	1					
16'-1" to 17'-0"	21%	#7	3'-6"	28"	#8	4'-6"				<u> </u>					
17'-1"to 18'-0"	22%	#8	4'-0"	29%"	#8	4'-6									

# MIN. BEARING SHALL BE D.5 O.D. OF SUPPORTED PIPE — #4 BAR(IF BEAM IS PRECAST) L 2 CL. REINFORCEMENT (SEE TABLE) SECTION C-C

C-

S

В

EXISTING CONDUIT
TO BE SUPPORTED

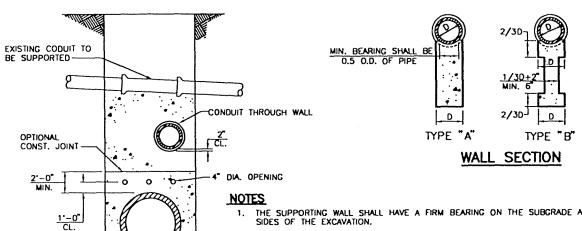
560 B-3250 REINFORCED CONCRETE BEAM

PATE

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PAIR

## CASE 2 CONCRETE WALL



- THE SUPPORTING WALL SHALL HAVE A FIRM BEARING ON THE SUBGRADE AND AGAINST THE
- ANY CONDUIT PASSING THROUGH THE WALL SHALL HAVE 2-INCH CLEARANCE FROM THE WALL.
- 4-INCH DIAMETER OPENINGS THROUGH THE WALL AT 2 FT. O.C. HORIZONTALLY AND AT 5 FT. O.C. VERTICALLY SHALL BE PROVIDED TO PREVENT UNEQUAL PRESSURE RESULTING FROM JETTEO BACKFILL.
- IF SUPPORTED PIPE IS BEDDED IN CONCRETE, MINIMUM THICKNESS OF WALL SHALL EQUAL BEDDING WIDTH.
- BRICK WITH MORTAR JOINTS MAY BE USED IN LIEU OF CONCRETE FOR WALLS UP TD 5 FT. IN HEIGHT OR LENGTH.

