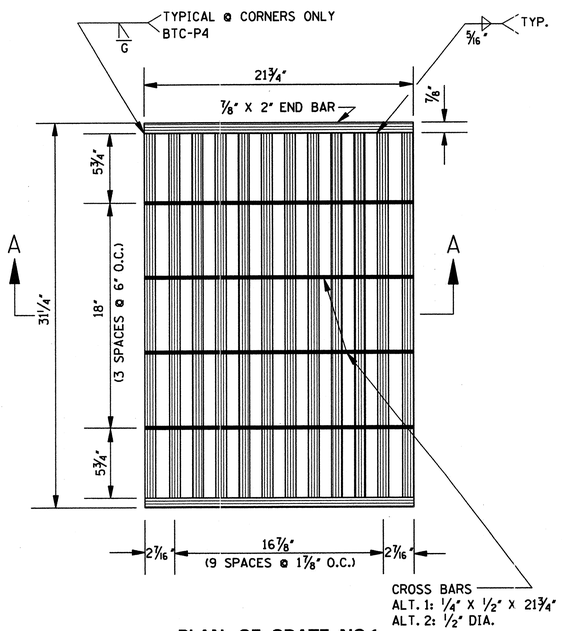
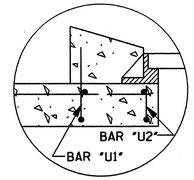
STATE	PROJECT NO.
MISS.	

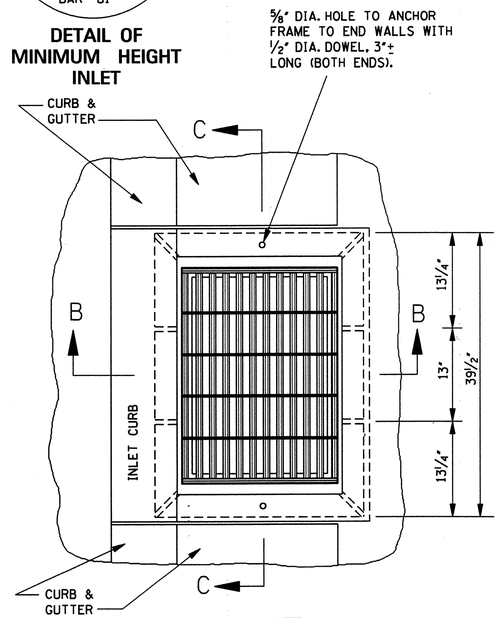


PLAN OF GRATE NO.1

NOTE: FOR OTHER GRATE DETAILS SEE SHEET IG-2.



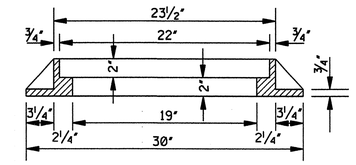
DETAIL OF MINIMUM HEIGHT INLET



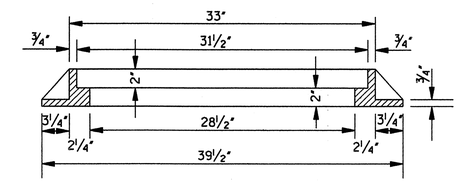
PLAN OF INLET

QUANTITIES															
PIPE SIZE	MIN. DEPTH TO F.L.	MIN. DEPTH INLET		PIPE OPENING DEDUCTION (yd^3)	T	BARS/SIZES						
		CONC. (yd^3)	STEEL (lbs)			"A" #4	"B" #4	"C" #4	"D" #4	"E" #4	"U1" #4	"U2" #4
						NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.	NO. @ LGTH.
18"	2.792'	0.973	67	0.053	2 1/2"	4 @ 5'-0"	4 @ 3'-8"	10 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 3'-5"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
24"	3.333'	1.259	78	0.091	3"	4 @ 6'-2"	4 @ 4'-3"	12 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 4'-0"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
30"	3.875'	1.574	88	0.138	3 1/2"	4 @ 7'-4"	4 @ 4'-10"	13 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 4'-7"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
36"	4.417'	1.918	101	0.196	4"	4 @ 8'-6"	4 @ 5'-5"	16 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 5'-2"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
42"	4.958'	2.292	112	0.263	4 1/2"	4 @ 9'-8"	4 @ 6'-0"	18 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 5'-9"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
48"	5.500'	2.695	121	0.340	5"	4 @ 10'-10"	4 @ 6'-7"	19 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 6'-4"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
54"	6.042'	3.128	132	0.427	5 1/2"	4 @ 12'-0"	4 @ 7'-2"	21 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 6'-11"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
60"	6.583'	3.591	146	0.524	6"	4 @ 13'-2"	4 @ 7'-9"	24 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 7'-6"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
66"	7.125'	4.082	159	0.630	6 1/2"	4 @ 14'-4"	4 @ 8'-4"	27 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 8'-1"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
72"	7.667'	4.604	168	0.747	7"	4 @ 15'-6"	4 @ 8'-11"	28 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 8'-8"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
22" X 13"	2.417'	0.991	67	0.053	2 1/2"	4 @ 4'-11 1/2"	4 @ 3'-3 1/2"	10 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 3'-9"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
29" X 18"	2.833'	1.222	82	0.087	3"	4 @ 6'-1/2"	4 @ 3'-9"	13 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 4'-5"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
36" X 23"	3.250'	1.537	90	0.129	3 1/2"	4 @ 7'-3"	4 @ 4'-2 1/2"	14 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 5'-1 1/2"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
44" X 27"	3.667'	1.877	97	0.185	4"	4 @ 8'-5"	4 @ 4'-8"	14 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 5'-10"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
51" X 31"	4.068'	2.237	110	0.245	4 1/2"	4 @ 9'-7"	4 @ 5'-1 1/2"	17 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 6'-6"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
58" X 36"	4.500'	2.637	120	0.318	5"	4 @ 10'-8 1/2"	4 @ 5'-7"	18 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 7'-2 1/2"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
65" X 40"	4.875'	3.020	132	0.394	5 1/2"	4 @ 11'-9"	4 @ 6'-0"	21 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 7'-10"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
73" X 45"	5.333'	3.505	140	0.489	6"	4 @ 13'-0"	4 @ 6'-6"	21 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 8'-7"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"
88" X 54"	6.167'	4.504	163	0.688	7"	4 @ 15'-4"	4 @ 7'-5"	25 @ 3'- 1 1/2"	2 @ 2'-9"	6 @ 10'-0"	1 @ 4'-11 1/2"	1 @ 3'-9 1/2"

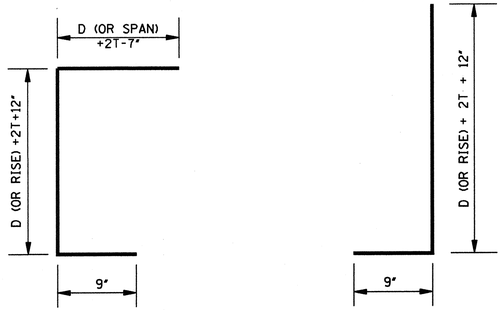
NOTES: 1. NO PIPE OPENINGS HAVE BEEN DEDUCTED FROM QUANTITY SHOWN.
2. FOR EACH ADDITIONAL FOOT OF INLET HEIGHT, ADD 0.238 yd^3 CLASS "B" CONCRETE AND 13 lbs REINFORCING STEEL.
3. 3 BARS "C" AND 2 BARS "D" REQUIRED PER EACH ADDITIONAL FOOT OF INLET HEIGHT. LENGTH OF BARS "B" WILL INCREASE WITH ADDITIONAL HEIGHT.
4. WEIGHT OF FRAME CASTING = 244 lbs.
WEIGHT OF GRATE = SEE SHEET IG-2.



SECTION B–B
(FRAME)



SECTION C–C
(FRAME)

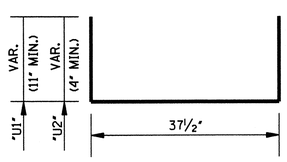


4 #4 BARS,
[D (OR RISE) +D (OR SPAN)+4T+14"] LONG

BARS "A"

4 #4 BARS,
[D (OR RISE)+2T+21"] LONG

BARS "B"



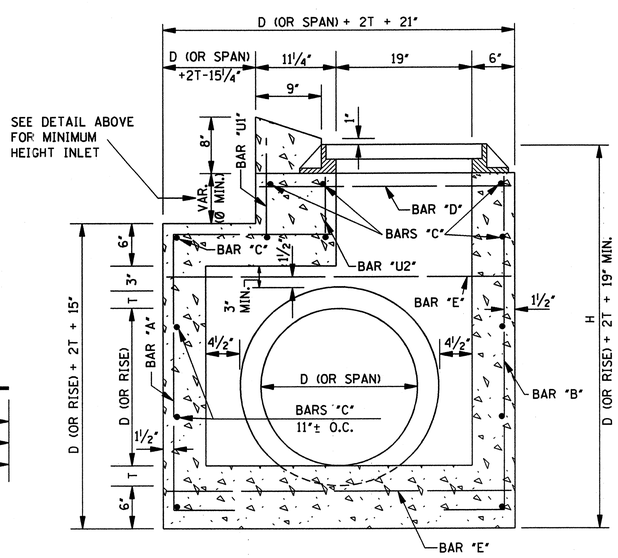
1 #4 BAR EACH, VAR. LENGTH

BARS "U1" & "U2"

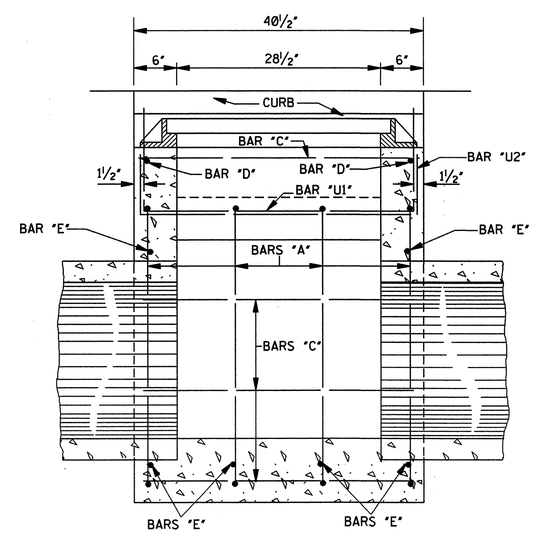
"C", #4 BARS	37 1/2"
"D", #4 BARS	33"
"E", #4 BARS	D (OR SPAN) +2T+18"

BARS "C", "D" & "E"

BAR DETAILS



SECTION B–B



SECTION C–C

GENERAL NOTES:

1. QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
2. CONCRETE SHALL BE CLASS "B" CONCRETE AND REINFORCING STEEL SHALL BE DEFORMED BARS.
3. THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET IG-2.
4. FRAME TO BE GRAY IRON CASTING, (AASHTO M 105, CLASS 30).

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

GUTTER INLET FOR TYPE 2 CURB STORM SEWER ALONG ROADWAY

ENGLISH

WORKING NUMBER GI-1A

ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER 317