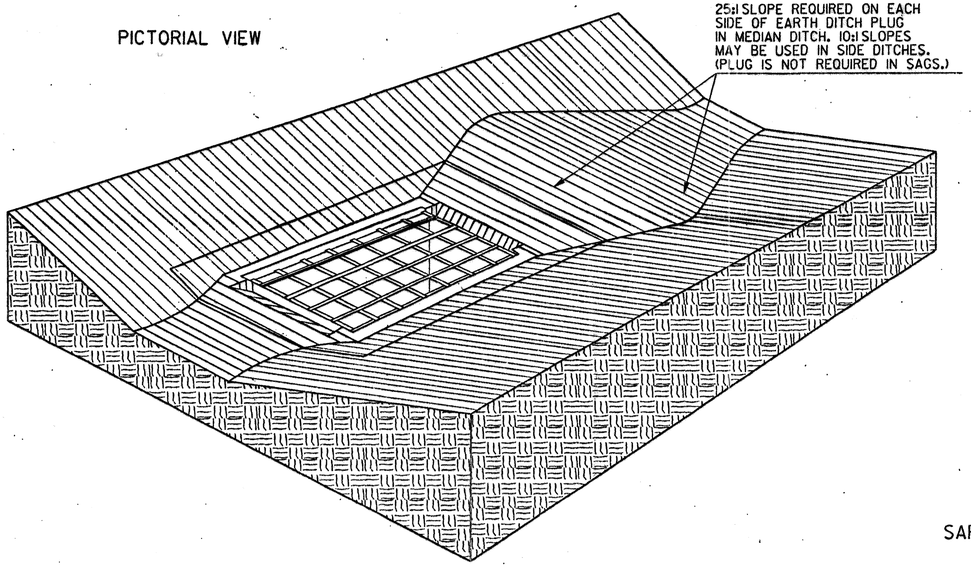
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	NHS-M001-00(268)	20	42

NOTE: MIN. 'H' IS BASED ON TYPICAL OUTSIDE DIAMETER OF CONCRETE PIPES AND MAY BE REDUCED SLIGHTLY WHERE SPECIFIED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.

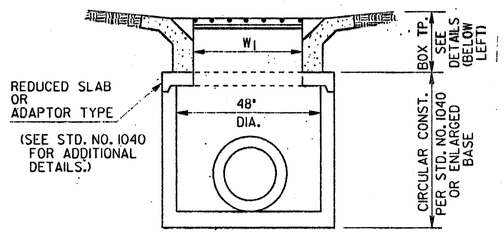
PIPE SIZE	MIN.(*) H	NORMAL W	75° SKEW W	60° SKEW W	45° SKEW W	MIN. H, IF CIRCULAR ALTER. (STD. 1040) IS USED
15"	3'-0"	2'-0"	2'-0"	2'-6"	3'-0"	3'-10"
18"	3'-6"	2'-6"	2'-6"	3'-0"	3'-6"	4'-3"
24"	4'-0"	3'-0"	3'-0"	3'-6"	4'-0"	4'-9"
30"	4'-6"	3'-6"	4'-0"	4'-0"	5'-0"	6'-2"
36"	5'-0"	4'-0"	4'-6"	5'-0"	6'-0"	6'-9"
42"	5'-6"	5'-0"	5'-0"	5'-6"	6'-6"	7'-4"
48"	6'-0"	5'-6"	5'-6"	6'-0"	7'-6"	7'-11"

(*) FOR LONGITUDINAL PIPE OVER 18" WITH A 2'-0" DITCH, OR A LONGITUDINAL PIPE OVER 36" WITH A 4'-0" DITCH, AN ENLARGED BASE IS REDUCED TO W_1 = DITCH WIDTH WITH APPLICABLE MIN. H IN COLUMN AT EXTREME RIGHT.

PICTORIAL VIEW



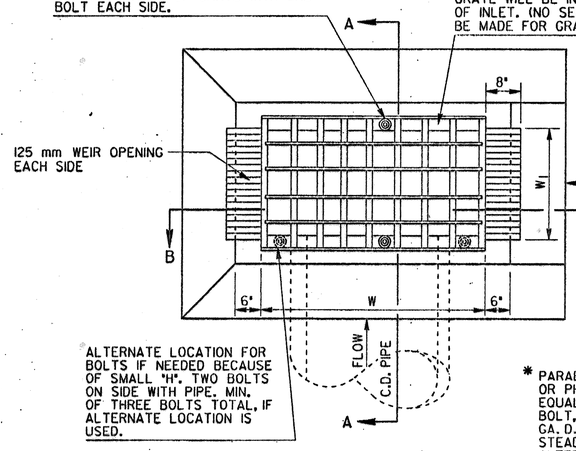
DROP INLET WITH CIRCULAR BASE			
OULET PIPE	ADAPTOR	W X W_1	GRATE SIZE (L. X W.)
TO 18"	TP. 3	2'-0" X 2'-0"	2'-0" X 2'-6"
TO 30"	TP. 2	3'-0" X 2'-0"	3'-0" X 2'-6"



SECTION B-B FOR: CIRCULAR ALTERNATE OR ENLARGED BASE

1/2" X 6" GALV. ANCHOR BOLT,* NUT AND WASHER-STANDARD LOCATION IS APPROX. CENTER OF GRATE WITH ONE BOLT EACH SIDE.

SEE GRATE FABRICATION DETAILS FOR BAR SIZES, ANGLE IRON SIZE AND WELDING DETAILS. GRATE WILL BE INCLUDED IN PAYMENT OF INLET. (NO SEPARATE PAYMENT WILL BE MADE FOR GRATE.)

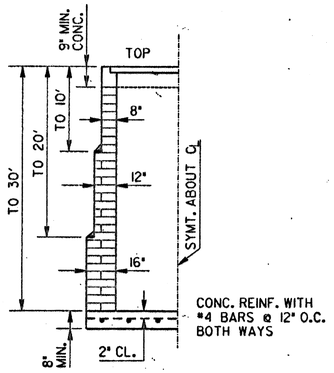


ALTERNATE LOCATION FOR BOLTS IF NEEDED BECAUSE OF SMALL 'H'. TWO BOLTS ON SIDE WITH PIPE. MIN. OF THREE BOLTS TOTAL, IF ALTERNATE LOCATION IS USED.

PLAN VIEW

CLASS "A" CONCRETE APRON (INCLUDED IN COST OF INLET)

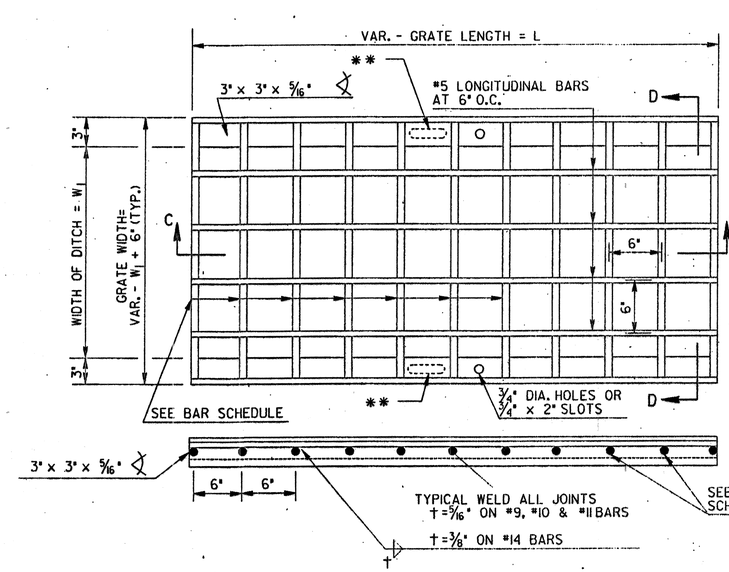
* PARABOLT CONC. ANCHOR BOLTS (P BI2-514) OR PHILLIPS RED HEAD (WW-1254), OR AN EQUAL 1/2" DIA. GALVANIZED ANCHOR TYPE BOLT, WHICH HAS BEEN APPROVED BY THE GA. D.O.T. LABORATORY MAY BE USED INSTEAD OF THE BOLT SHOWN. ALL SUCH ALTERNATES ARE TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER.

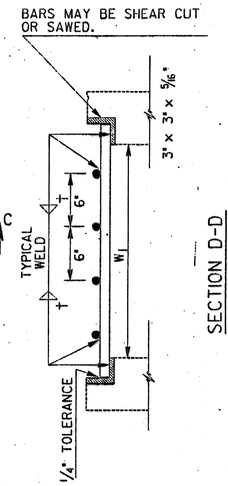


CONC. REINF. WITH #4 BARS @ 12" O.C. BOTH WAYS

DETAIL OF DEPTH LIMITS FOR BRICK WALL THICKNESS

SAFETY GRATE FABRICATION DETAILS

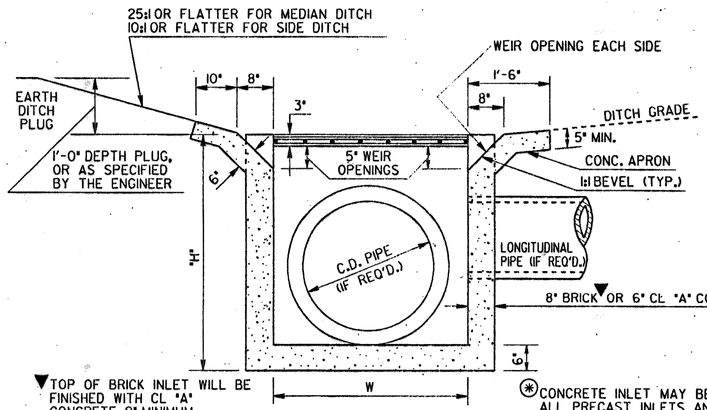




SECTION D-D

BAR SCHEDULE FOR GRATE		
W_1	GRATE TYPE	BAR SIZE
1'-6" TO 2'-0"	1	#9
2'-6"	2	#10
3'-0" TO 3'-6"	3	#11
4'-0" TO 4'-6"	4	#14

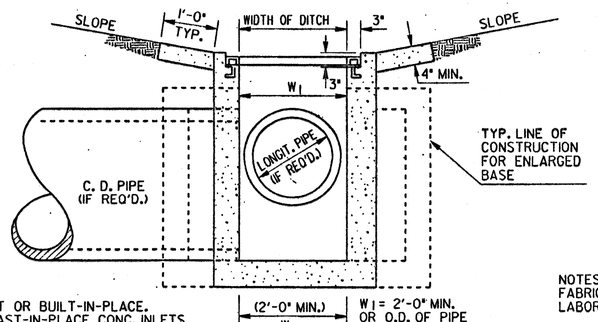
** ALTERNATE: INSTEAD OF 3/4" DIAMETER HOLE, A 2" x 3/4" OVAL HOLE MAY BE PROVIDED.



▼TOP OF BRICK INLET WILL BE FINISHED WITH CL "A" CONCRETE 9" MINIMUM. 8" BRICK THICKNESS WILL BE INCREASED FOR 'H' OVER 10 FT. (SEE DETAIL IN MIDDLE OF SHT.)

SECTION B-B

(*) CONCRETE INLET MAY BE PRECAST OR BUILT-IN-PLACE. ALL PRECAST INLETS AND ANY CAST-IN-PLACE CONC. INLETS WITH "H" OVER 4'-6" WILL BE REINFORCED IN ALL SIDES & BOTTOM. REINFORCING FOR BOX INLET WILL BE EITHER #4 BARS AT 12" O.C. BOTH WAYS OR 2/2, 6x6 WELDED WIRE FABRIC. ALL REINFORCING WILL HAVE 2" MIN. COVER.



SECTION A-A

NOTES FOR GRATE:
FABRICATOR WILL ARRANGE FOR TESTING BY THE GA. D.O.T. LABORATORY 14 DAYS PRIOR TO FABRICATION.

ALL BARS SHALL MEET THE REQUIREMENTS OF AASHTO M 31 GRADE 60.

ALL LONGITUDINAL BARS WILL BE #5 BARS.

GRATE BAR SPACINGS SHOWN ARE "NOMINAL-MINIMUM" AND MAY BE INCREASED (UP TO 10% TYPICAL) WITH NO ADDITIONAL PAYMENT TO PROVIDE BEST FIT FOR STRUCTURE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
DITCH DROP INLET WITH FABRICATED SAFETY GRATE AND WEIR OPENINGS

NO SCALE — OCT., 2000

DATE / REVISION / BY

DES. _____ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
DRW. _____
TRA. _____ (APPROVED) CHIEF ENGINEER
CHK. _____

NUMBER D-4