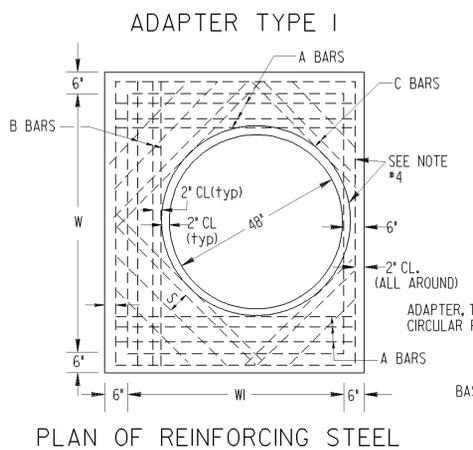


STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

### CIRCULAR PRECAST REINFORCED CONCRETE SECTIONS



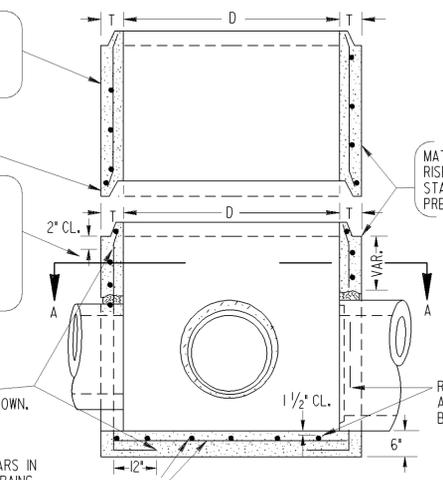
NOTE:

WHERE W=48" (ONLY)  
A BARS NOT REQUIRED  
WHERE WI = 48" (ONLY)  
B BARS NOT REQUIRED  
FOR CONSTRUCTION OF BOX TYPE BASES AND W AND WI DIMENSIONS, SEE APPLICABLE STANDARDS FOR CATCH BASINS OR DROP INLETS.

CIRCULAR RISER SECTIONS-  
DESIGN AND STEEL REINFORCEMENT TO COMPLY WITH A.S.T.M. C-478 FOR PRECAST MANHOLE SECTIONS HT. = 1'0" TO 4'0" EACH.

KEYED JOINT REQUIRED AT ALL SECTIONS UNLESS NOTED OTHERWISE

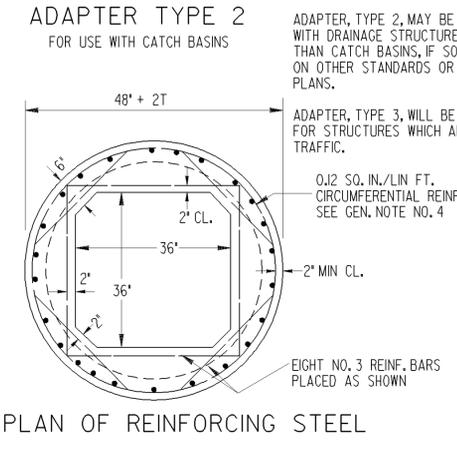
CIRCULAR BASE UNIT-  
WALL DESIGN AND REINFORCEMENT TO COMPLY WITH A.S.T.M. C-478 EXCEPT THAT MIN. (T) THICKNESS = 5" AND ALL PRECAST OPENINGS FOR PIPES SHALL HAVE TWO ADDITIONAL VERTICAL REINFORCING BARS AS SHOWN.



D	BASE	RISER
48"	5"	4"
60"	5"	5"
72"	6"	6"

D	MAX PIPE SIZE
48"	30"
60"	42"
72"	48"

D	BAR SIZE	NO.
48"	#5	8
60"	#5	10
72"	#6	12



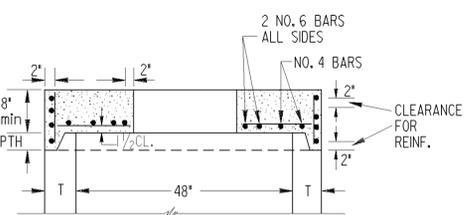
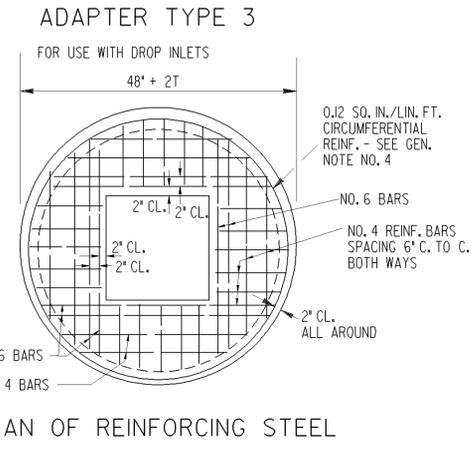
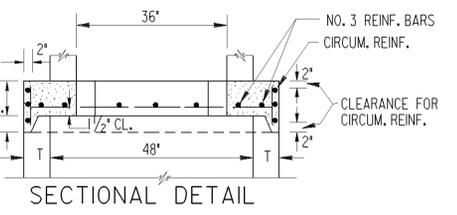
ADAPTER, TYPE 2, MAY BE USED WITH DRAINAGE STRUCTURES OTHER THAN CATCH BASINS, IF SO NOTED ON OTHER STANDARDS OR IN THE PLANS.

ADAPTER, TYPE 3, WILL BE USED FOR STRUCTURES WHICH ARE UNDER TRAFFIC.

0.12 SQ. IN./LIN. FT. CIRCUMFERENTIAL REINF. - SEE GEN. NOTE NO. 4

2" MIN. CL.

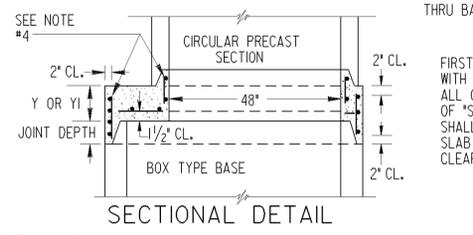
EIGHT NO. 3 REINF. BARS PLACED AS SHOWN



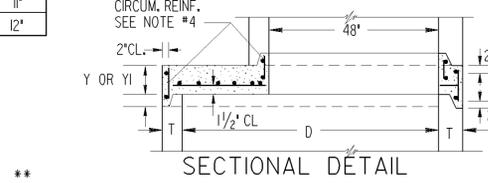
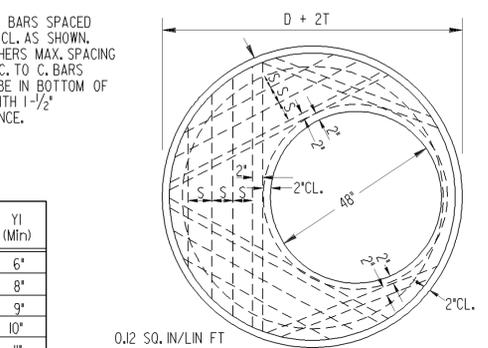
NOTE: OPENING IN AN ADAPTER, TYPE 3, DEPENDS ON TYPE OF INLET, OPENING = 1'5" X 2'0" FOR INLET TYPES A,B,C, OR D, AND 2'0" X 2'0" FOR INLET, TYPE E (STANDARD 1019-A). FOR OTHER INLET TYPES OPENING EQUAL TO OPENING REQUIRED FOR INLET WITH BOX TYPE BASES.

GENERAL NOTES:

1. ALL CIRCULAR SECTIONS WILL HAVE KEYED TYPE JOINT IN ACCORDANCE WITH A.S.T.M. C-478.
2. ALL OPENINGS FOR PIPES OVER 6" IN DIAMETER MUST BE PRECAST.
3. ALL ADAPTERS AND REDUCER SLABS SHALL CONTAIN, IN ADDITION TO STEEL BAR REINF. SHOWN, CIRCUMFERENTIAL REINFORCEMENT IN LIP AND EXTENDING INTO BODY OF SLAB AS SHOWN.
4. FOR CONSTRUCTION ABOVE ADAPTER, TYPE 2, AND TYPE 3, AND BELOW TYPE 1, SEE APPLICABLE GA. STDS. FOR CATCH BASINS OR DROP INLETS.
5. CIRCULAR SECTIONS SHOWN ON THIS STANDARD MAY BE SUBSTITUTED FOR THE BOX TYPE BASE ON GA. STDS. AND CONSTRUCTION DETAILS FOR CATCH BASINS AND DROP INLETS, WHERE STRUCTURE HEIGHT, PIPE SIZE, AND ALIGNMENT PERMIT. SPECIFIED STRUCTURE HEIGHT SHALL BE SUFFICIENT TO ACCOMMODATE THE REQUIRED BASE SIZE, ADAPTERS, RISERS, AND TOP PORTION FOR ALLOWANCE OF THE CIRCULAR ALTERNATES.



**CIRCULAR REDUCER SLAB**

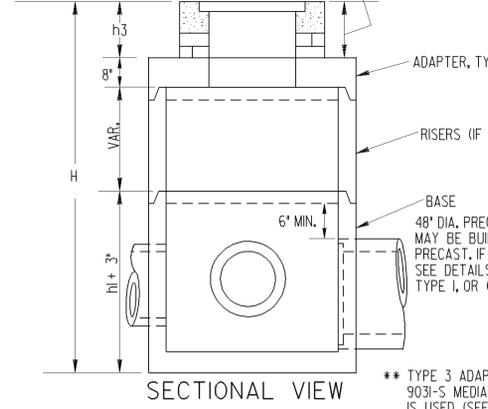
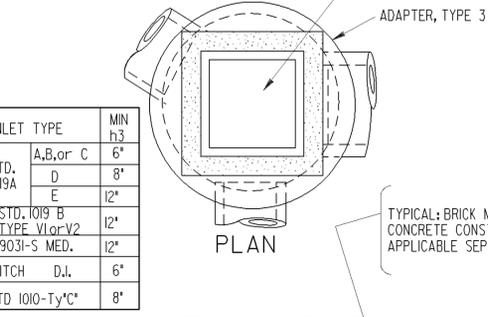


\*WHERE W AND WI DIMENSIONS DIFFER, USE SLAB THICKNESS AND REINFORCEMENTS FOR LARGER DIMENSION.  
Y = MIN. THICKNESS WHERE HEIGHT OF FILL IS 12 FT., OR LESS, ABOVE TOP OF ADAPTER, TYPE 1, OR CIRCULAR REDUCER.  
YI = MIN. THICKNESS WHERE HEIGHT OF FILL ABOVE ADAPTER, TYPE 1, OR CIRCULAR REDUCER = OVER 12 FT.

W & WI or D	BAR SIZE	S (Max)	Y (Min.)	YI (Min)
48"	#4	6"	6"	6"
54"	#4	6"	8"	8"
60"	#5	6"	8"	9"
66"	#6	6"	8"	10"
72"	#6	5 1/2"	9"	11"
84"	#6	5"	9"	12"

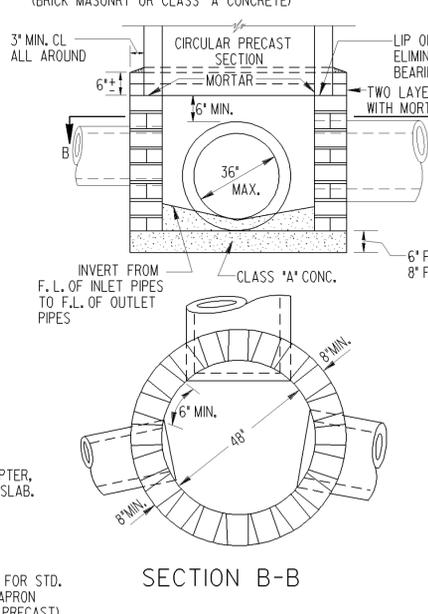
**DROP INLET WITH CIRCULAR SECTIONS**

SEE APPLICABLE STANDARD OR CONSTRUCTION DETAILS FOR DROP INLET DETAILS NOT SHOWN HERE.



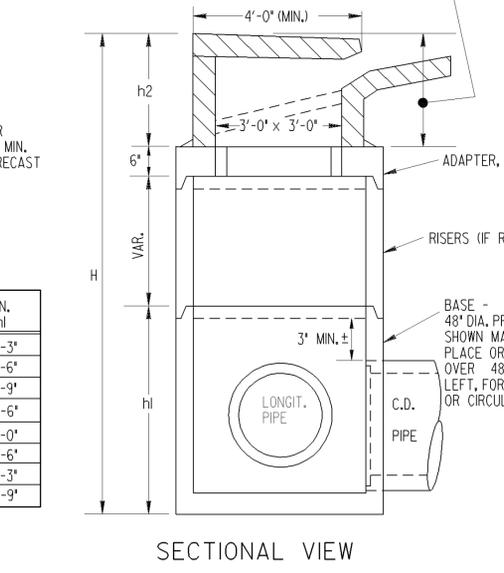
INLET TYPE	MIN h3
STD. 1019A A,B, or C	6"
D	8"
E	12"
STD. 1019 B TYPE VI or V2	12"
9031-S MED.	12"
DITCH D.I.	6"
STD 1010-TyC*	8"

**BUILT-IN-PLACE CIRCULAR BASE**  
(BRICK MASONRY OR CLASS "A" CONCRETE)



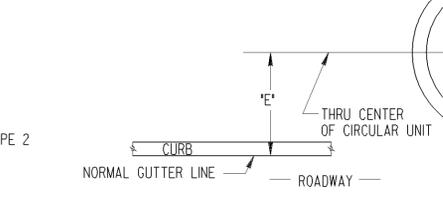
**CATCH BASIN WITH CIRCULAR SECTIONS**

CONSTRUCTION ABOVE ADAPTER WILL BE EITHER PRECAST, BUILT-IN-PLACE, OR A COMBINATION OF BOTH ACCORDING TO APPLICABLE CATCH BASIN STANDARDS.



PIPE SIZE	MIN. h1
12"	2'-3"
15"	2'-6"
18"	2'-9"
24"	3'-6"
30"	4'-0"
36"	4'-6"
42"	5'-3"
48"	5'-9"

**DETAIL FOR CENTERING CIRCULAR SECTION OF CATCH BASINS BACK OF CURB**



STD. NO	CURB HEIGHT	MIN. h2	'E'
1033 D;	6"	2'-0"	2'-0"
1033 G	8"	2'-2"	2'-0"
1033 E	4"	2'-0"	3'-0"
1033 F	4"	1'-11"	4'-0"
	6"	2'-1"	4'-0"
	8"	2'-1"	3'-0"
	10"	2'-1"	2'-0"
1034 D;	6"	2'-1"	2'-0"
	1034 G	8"	2'-2"
1034 E	4"	2'-0"	3'-0"
	4"	1'-11"	4'-0"
1034 F	6"	2'-1"	4'-0"
	8"	2'-1"	3'-0"
	10"	2'-1"	2'-0"

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

STANDARD  
CIRCULAR BASE UNITS AND RISERS  
FOR CATCH BASINS AND DROP INLETS  
(CONSTRUCTION ALTERNATES)

NO SCALE  
DES. (SUBMITTED)  
TRA. (APPROVED)  
CHK.

REV. & REDR.: NOV., 1999

NUMBER  
1040

⊗ REFERENCED STANDARD MAY BE PRECAST OR BUILT-IN PLACE