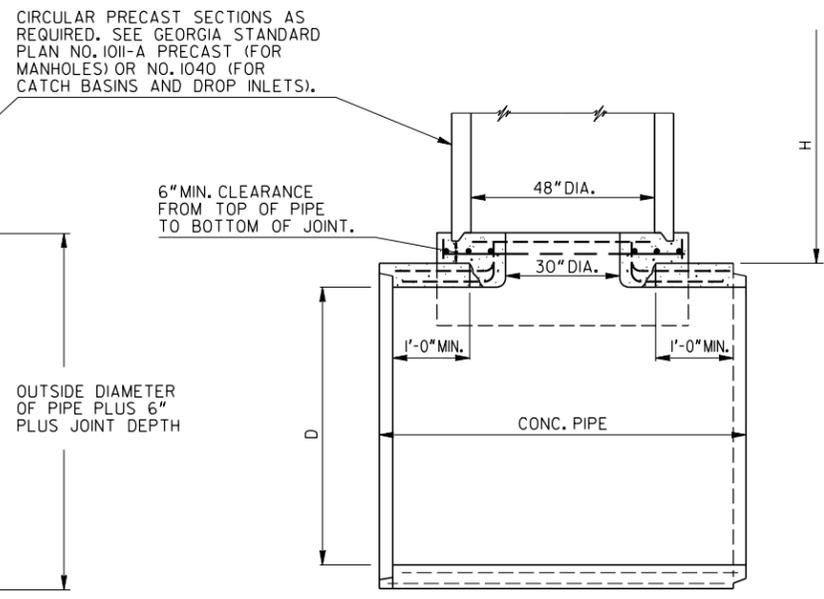


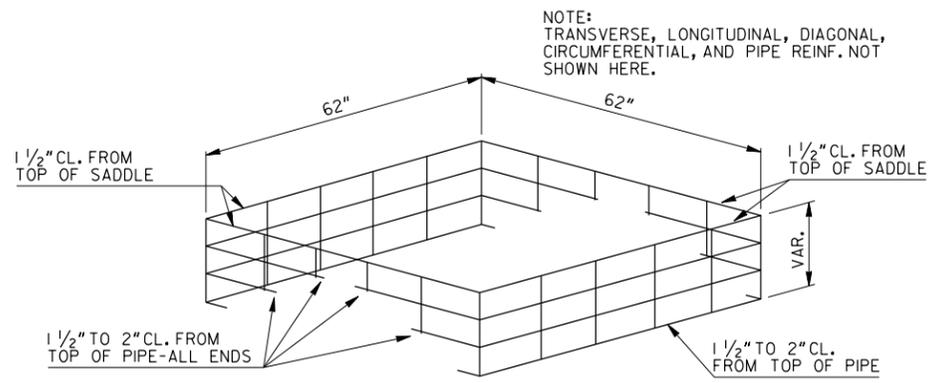
TRANSVERSE SECTION

NOTE: PIPE UNDER SADDLE WILL BE AS INDICATED ON GA. STD. 1030-D FOR THE GIVEN PIPE DIAMETER AND HEIGHT OF FILL ABOVE PIPE.

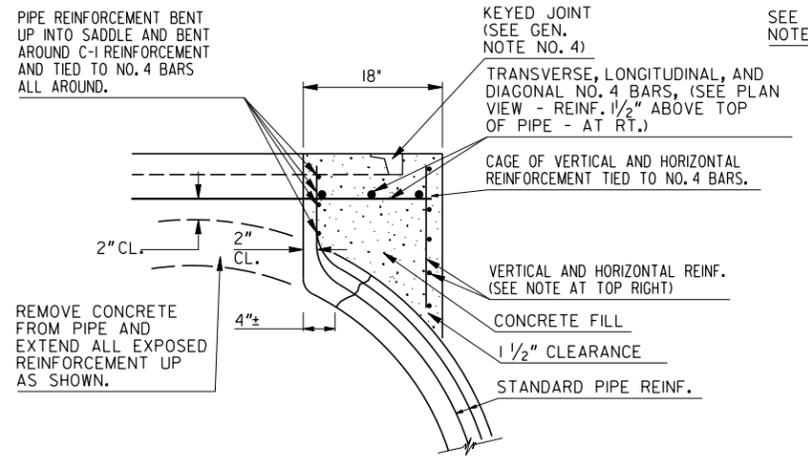


LONGITUDINAL SECTION

NOTE: SADDLE NOT PERMITTED FOR HEIGHTS GREATER THAN SHOWN IN TABLE, UNLESS INDIVIDUAL STRUCTURAL JUSTIFICATION IS MADE.



PICTORIAL VIEW - VERTICAL & HORIZONTAL REINFORCEMENT



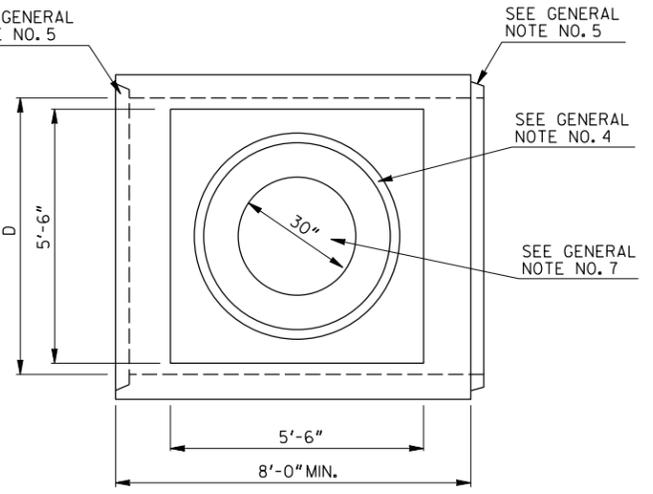
JOINT DETAIL

NOTE: SADDLE PORTION OF STRUCTURE MAY BE PRECAST OR BUILT-IN PLACE ONTO PIPE SECTION AS SHOWN.

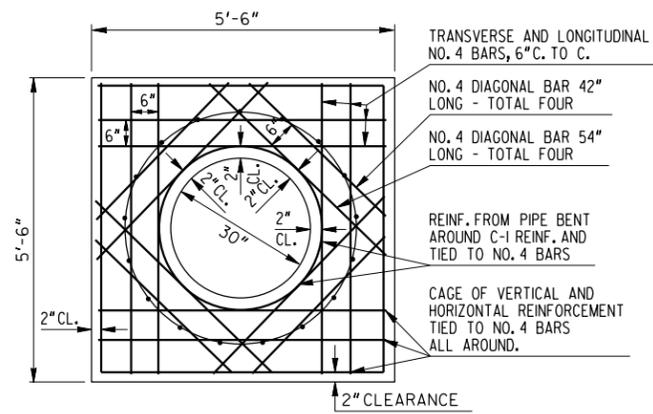
OR

SADDLE MAY BE PRECAST SEPARATELY AND ATTACHED TO PIPE WITH EPOXY. EXPOSED REINFORCEMENT FROM PIPE WILL BE CUT OFF AT OPENING IF THIS METHOD IS USED.

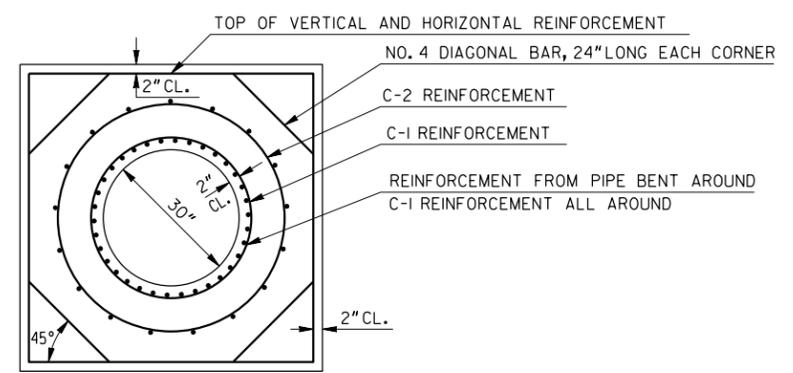
SPECIAL NOTE: REINFORCED CONCRETE SADDLE WILL NOT BE PERMITTED WHERE TOP OF STRUCTURE IS LOCATED IN ROADWAY OR SUBJECT TO CONTINUOUS ROADWAY TRAFFIC.



PLAN



PLAN VIEW - REINFORCEMENT (2 INCH ABOVE TOP OF PIPE)



PLAN OF TOP REINFORCING (2 INCH FROM TOP OF SADDLE)

ADDITIONAL REINFORCEMENT REQUIRED: VERTICAL AND HORIZONTAL REINFORCEMENT WILL CONSIST OF A CAGE OF 2/2 6X6 WELDED WIRE FABRIC OR NO.4 BARS SPACED 12 INCH C. TO C. (MAX.) MEETING THE DIMENSIONS AND CLEARANCES SHOWN.

TRANSVERSE, LONGITUDINAL, AND DIAGONAL REINFORCEMENT WILL BE NO. 4 BARS. ALL REINFORCEMENT EXTENDING FROM PIPE WILL BE TIED TO TRANSVERSE AND LONGITUDINAL REINFORCEMENT AT ALL POINTS OF TANGENCY.

C-1 REINFORCEMENT: FOUR NO. 3 RINGS IN THROAT OF TEE, 2 1/2 INCH C. TO C. REINFORCEMENT FROM PIPE EXTENDED UP AND BENT AROUND THESE RINGS ALL AROUND.

C-2 REINFORCEMENT: SAME REINFORCEMENT AS REQUIRED FOR PRECAST MANHOLE RISER SECTIONS (A.S.T.M. C-476) PROVIDING A MINIMUM OF TWO LINES OF CIRCUMFERENTIAL REINFORCEMENT WITH A MINIMUM OF ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT IN KEYED JOINT. C-2 REINFORCEMENT MAY BE OMITTED WHERE CIRCULAR RISERS WILL NOT BE REQUIRED ON SADDLE.

- GENERAL NOTES:
- SPECIFICATIONS: GEORGIA STANDARD SPECIFICATIONS AND / OR SPECIAL PROVISIONS.
 - FOR STRUCTURE DETAILS NOT SHOWN SEE:
 - MANHOLES - STANDARDS 1011-A AND 1011-A PRECAST
 - CATCH BASINS - STANDARD 1040 AND APPLICABLE STD. FOR
 - AND DROP INLETS - CATCH BASIN OR DROP INLET.
 - PIPE CULVERTS - STANDARD 1030-D
 - REQUIREMENTS FOR TRENCH CONSTRUCTION, BACKFILL MATERIALS, ETC., SHALL BE THE SAME FOR TEE SECTION AS FOR THE ADJOINING PIPE CULVERT.
 - KEYED JOINT - WHERE PRECAST CIRCULAR MANHOLE SECTIONS ARE TO BE LOCATED ON TOP OF SADDLE, A CIRCULAR KEYED JOINT WILL BE REQUIRED. JOINT SHALL BE DESIGNATED TO MATCH WITH RISER SECTIONS AND SHALL PROVIDE BEARING SURFACE AREA EQUAL TO THAT OF RISER JOINTS. KEYED JOINT MAY BE PROTRUDED OR RECESSED (AS SHOWN) SO LONG AS THE 6 INCH MIN. CLEARANCE (SEE LONGITUDINAL SECTION) IS RETAINED.
 - JOINT SHOWN FOR HORIZONTAL CONNECTION TO PIPE IS ONLY TYPICAL. TEE JOINT WILL BE OF SAME DESIGN AND KIND AS ADJOINING PIPE CULVERT.
 - PAYMENT FOR INLET, MANHOLE, JUNCTION BOX, OR CATCH BASIN AND PAYMENT FOR PIPE WILL INCLUDE SADDLE, PIPE WITH OPENING, AND ALL INCIDENTALS NECESSARY TO COMPLETE THE ITEM AS SHOWN.
 - 30 INCH DIAMETER OPENING MAY BE REDUCED (18 INCH MIN.) FOR DROP INLETS. RECTANGULAR OR SQUARE STRUCTURES OF SIZES AND DIMENSIONS SHOWN ON APPLICABLE STANDARD DETAILS MAY BE CONSTRUCTED ON TOP OF SADDLE IN LIEU OF THE 48 INCH DIAMETER CIRCULAR RISERS SHOWN.

| | | | |
|--------------|--|------|--|
| 6-15-76 | | DATE | DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA |
| REVISION | | | |
| REVISOR | | | REINFORCED CONCRETE SADDLE |
| BY | | | FOR PIPE CULVERTS |
| NUMBER | | | D-18 |
| NOT TO SCALE | | | |