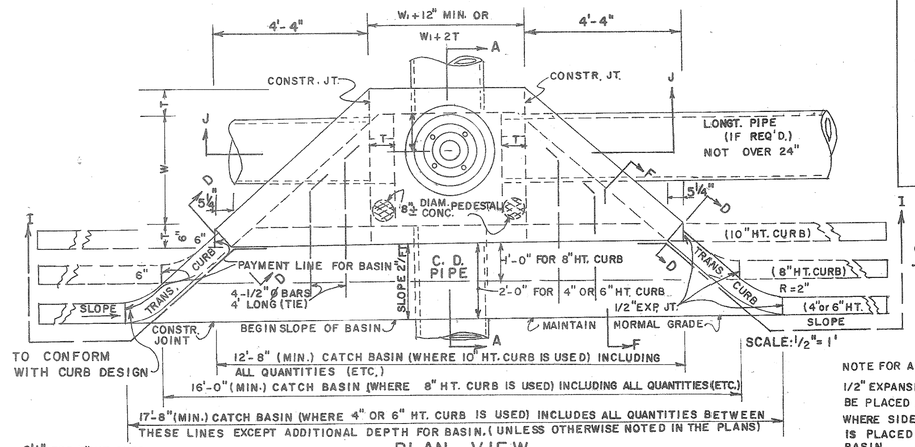
AF 21868

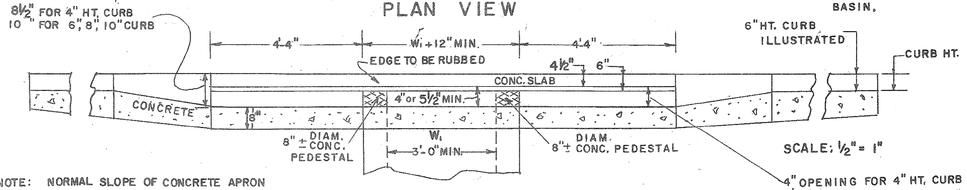
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| GA. | | 461 | 604 |

# CATCH BASIN

(IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT FAR RIGHT)

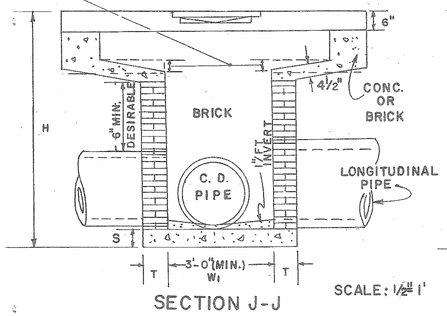



## PLAN VIEW

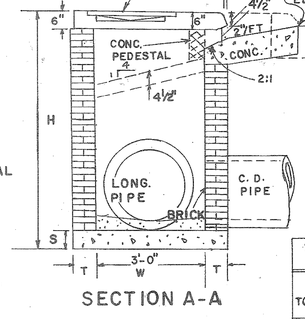



NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED UP TO 8" TOTAL, WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.

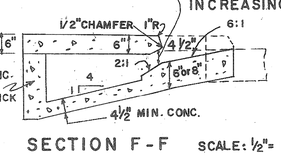
## SECTION I-I




## SECTION J-J




## SECTION A-A




## SECTION F-F

SCALE: ½" = 1'

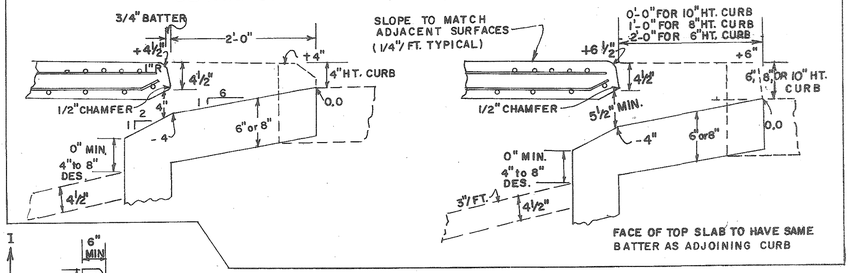
NOTE: TYPICAL TREATMENTS FOR SKEWED PIPES ARE: CIRCULAR PRECAST UNITS, SWIVEL SECTION, PIPE ELBOWS, OR INCREASED BOX SIZE TO ACCOMODATE THE SKEW.

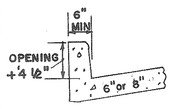
| W OR W₁ (MAX.) | BOTTOM SLAB MATERIALS | "S" |
|---|---|---|
| TO 4'-6" | NON-REINF. CONCRETE | 6" |
| | OR BRICK | 8" |
| OVER 4'-6" | CONC. REINF W/ #4 BARS 12" O.C. BOTH WAYS, 2" CL. FROM SLAB TOP. | 8" |

NOTE FOR ALL CATCH BASINS:

1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.

## DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.

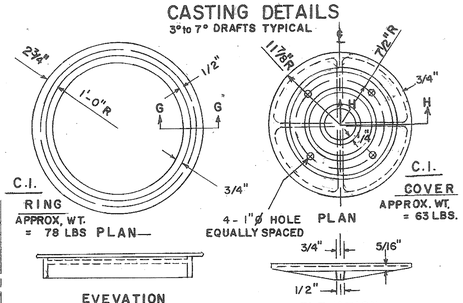


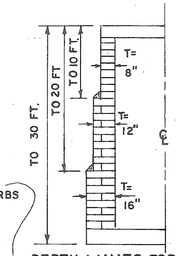




SEC. D-D

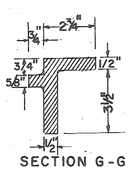
## CASTING DETAILS

3° to 7° DRAFTS TYPICAL

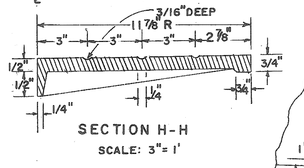



DEPTH LIMITS FOR INCREASING "T"




SECTION G-G
SCALE: 3" = 1'

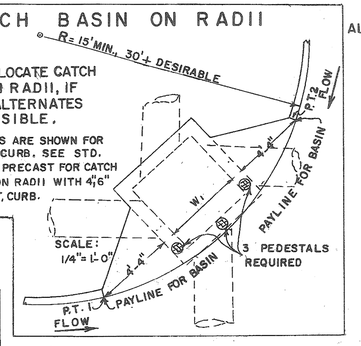



SECTION H-H
SCALE: 3" = 1'

## CATCH BASIN ON RADII

NOTE: DO NOT LOCATE CATCH BASIN ON RADII, IF OTHER ALTERNATES ARE FEASIBLE.

DETAILS ARE SHOWN FOR 10" HT. CURB. SEE STD. 1034 F PRECAST FOR CATCH BASIN ON RADII WITH 4" 6" OR 8" HT. CURB.

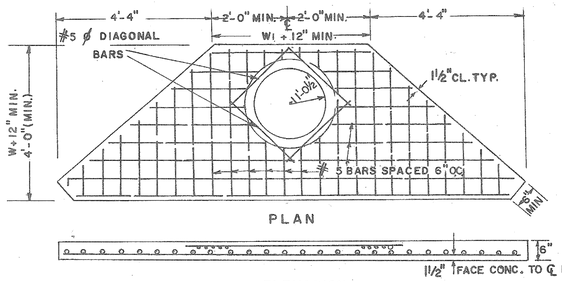



ΔE = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE

| PIPE DIA. | H (MIN.) | W OR W₁ | (MIN.) E |
|---|---|---|---|
| 12 | 4'-4" | 3'-0" | 3'-1" |
| 15 | 4'-7" | 3'-0" | 3'-4" |
| 18 | 4'-10" | 3'-0" | 3'-7" |
| 24 | 5'-6" | 3'-0" | 4'-2" |
| 30 | 6'-2" | 3'-7" | 4'-10" |
| 36 | 6'-10" | 4'-6" | 5'-5" |
| 42 | 7'-4" | 5'-3" | 5'-9" |
| 48 | 8'-0" | 6'-0" | 6'-4" |
| 54 | 8'-6" | 6'-8" | 6'-10" |
| 60 | 9'-2" | 7'-4" | 7'-5" |

NOTE: THE MIN. H & ΔE GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED IF CONDITIONS PERMIT WITH THE VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W & W₁ DIMENSIONS DO NOT HAVE TO BE EQUAL.

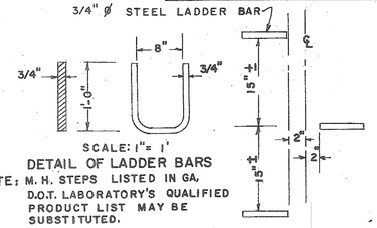
## DETAIL OF TOP REINFORCED CONCRETE SLAB




NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 6" O.C.

NOTE: FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB. SEE PART PLAN. AT TOP RIGHT.

NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST. IF SLAB IS CAST IN PLACE, BUILDERS PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN & TOP SLAB.



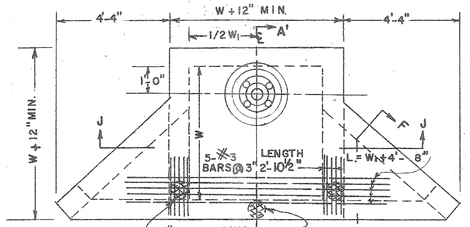

DETAIL OF LADDER BARS

NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCT LIST MAY BE SUBSTITUTED.

ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS, NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

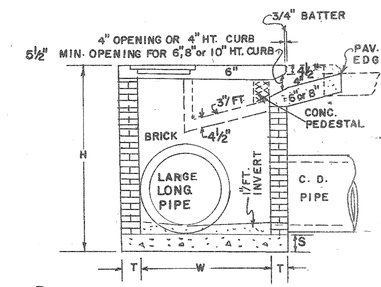
(FOR USE WITH LONGITUDINAL PIPE OVER 24" OR FOR USE WITH RECESSED BOX)

## CATCH BASIN (WITH PROTRUDED BACK)



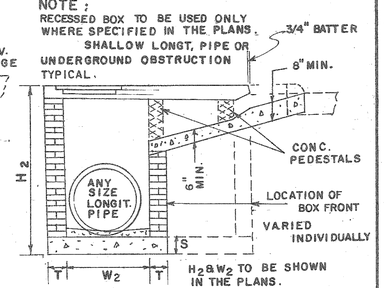

NOTE: CATCH BASIN DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT FAR LEFT FOR NORMAL CATCH BASIN.

## PART PLAN

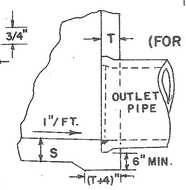



## SECTION A'-A'
(FOR LARGE LONGITUDINAL PIPE)

NOTE: RECESSED BOX TO BE USED ONLY WHERE SPECIFIED IN THE PLANS. SHALLOW LONGT. PIPE OR UNDERGROUND OBSTRUCTION TYPICAL.

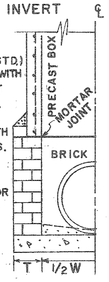



## SECTION A'-A'
(FOR RECESSED BOX)



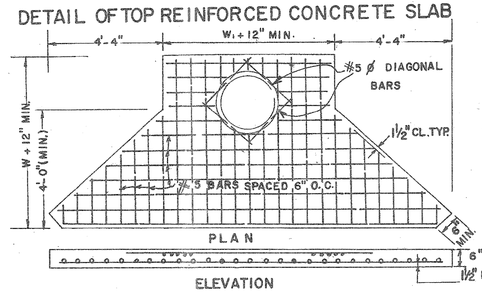

ALTERNATE TO INVERT

NOTE: PRECAST BOX (STD.) 1034 F PRECAST) WITH FLUSH JOINT AT BOTTOM SHOWN. ADAPTERS WILL BE REQUIRED WITH CIRCULAR UNITS. (STD. 1040.) PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTRUCTION MAY BE USED IN COMBINATIONS.

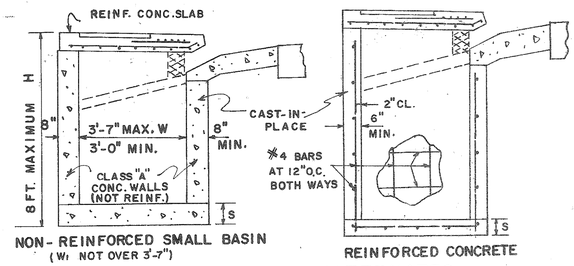



PRECAST BOX ON BRICK (HALF-SECTION)

## DETAIL OF TOP REINFORCED CONCRETE SLAB




NOTE: PIPE SIZES, NUMBER, ALIGNMENT AND INVERTS SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFICS. INVERTS TO BE FORMED WITH GROUT OR CONCRETE AS DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS.




## CONSTRUCTION ALTERNATES

NOTE: DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS. SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

# STANDARD
# CATCH BASINS

FOR USE WITH 4", 6", 8", OR 10" HT. HEADER OR INTEGRAL CURBS — IN SAGS OR LOW POINTS

SCALE AS SHOWN — REV. & REDR. AUGUST, 1982

REV. & R.M.U.
REDR:
TRA. G.M.E.
CHK. R.K.C.

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN. ENGR.
(APPROVED) Thomas D. Moorehouse
STATE HIGHWAY ENGINEER

NUMBER 1034 F

FORM EF3