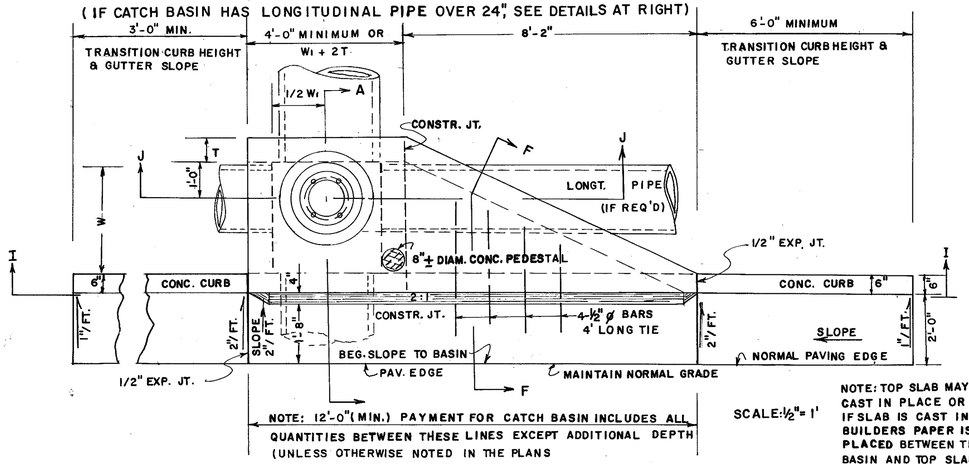
AF 21868

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| GA. | | 073 | 120 |

# CATCH BASIN

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

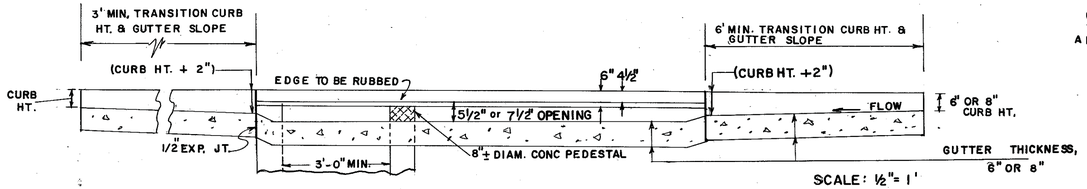



NOTE: 12'-0" (MIN.) PAYMENT FOR CATCH BASIN INCLUDES ALL QUANTITIES BETWEEN THESE LINES EXCEPT ADDITIONAL DEPTH (UNLESS OTHERWISE NOTED IN THE PLANS

SCALE: 1/2" = 1'

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 AND TOP SLAB.

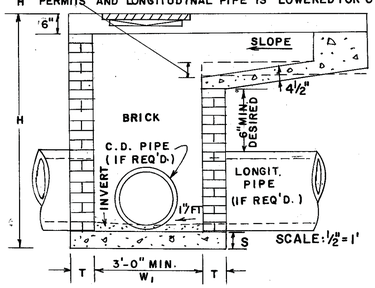
## PLAN




SCALE: 1/2" = 1'

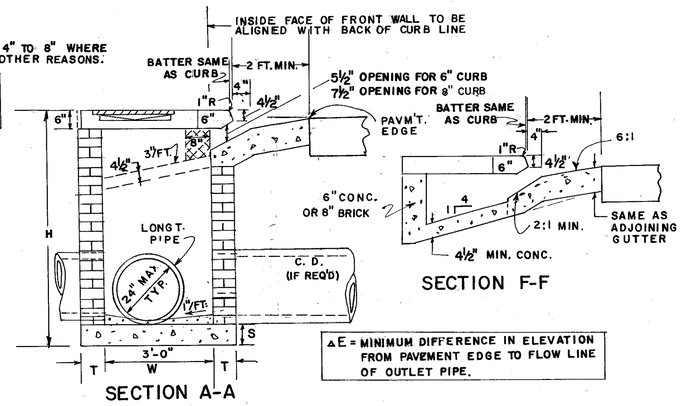
## SECTION I-I

NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED BY 4" TO 8" WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.




SCALE: 1/2" = 1'

## SECTION J-J

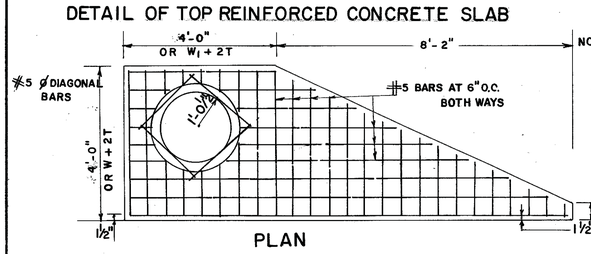



## SECTION A-A

## SECTION F-F

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

## DETAIL OF TOP REINFORCED CONCRETE SLAB

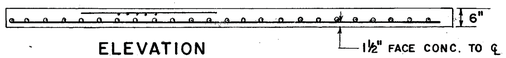



NOTE: ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS, NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

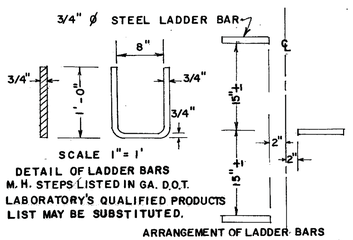
## PLAN

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.




## ELEVATION




SCALE 1" = 1'

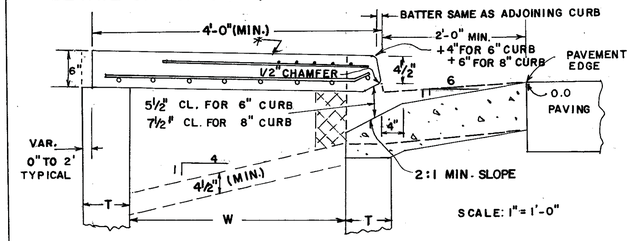
DETAIL OF LADDER BARS

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

ARRANGEMENT OF LADDER BARS

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

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

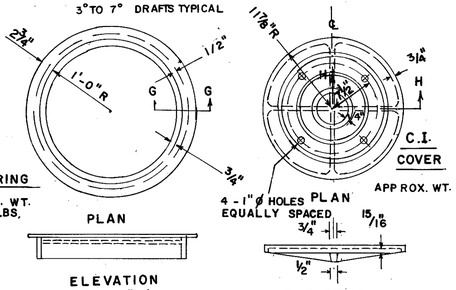


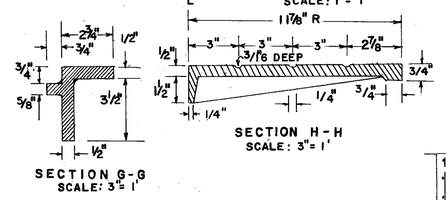

SCALE: 1" = 1'-0"

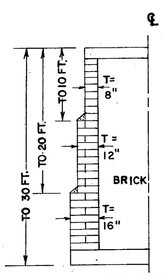
* SLOPE TOP TO MATCH ADJACENT SURFACES

## CASTING DETAILS

3° TO 7° DRAFTS TYPICAL



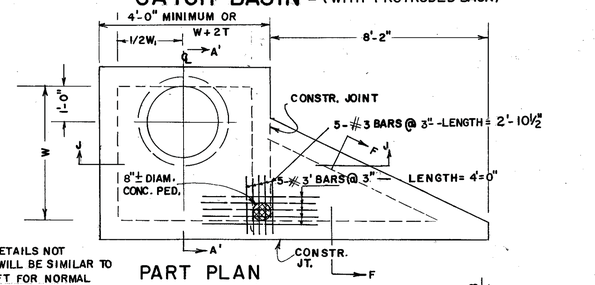

DEPTH LIMITS FOR INCREASING "T"

| TYPICAL MIN. DIMENSIONS | | | |
|---|---|---|---|
| PIPE DIA. | H (MIN.) | W or W1 | ΔE (MIN) |
| 12 | 4'-4" | 3'-0" | 3'-3" |
| 15 | 4'-7" | 3'-0" | 3'-6" |
| 18 | 4'-10" | 3'-0" | 3'-9" |
| 24 | 5'-6" | 3'-0" | 4'-4" |
| 30 | 6'-2" | 3'-7" | 5'-0" |
| 36 | 6'-10" | 4'-6" | 5'-7" |
| 42 | 7'-4" | 5'-3" | 5'-11" |
| 48 | 8'-0" | 6'-0" | 6'-6" |
| 54 | 8'-6" | 6'-8" | 7'-0" |
| 60 | 9'-2" | 7'-4" | 7'-7" |

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

(TYPICAL FOR CATCH BASIN WITH LARGE LONGITUDINAL PIPE OR RECESSED BOX)

## CATCH BASIN - (WITH PROTRUDED BACK)

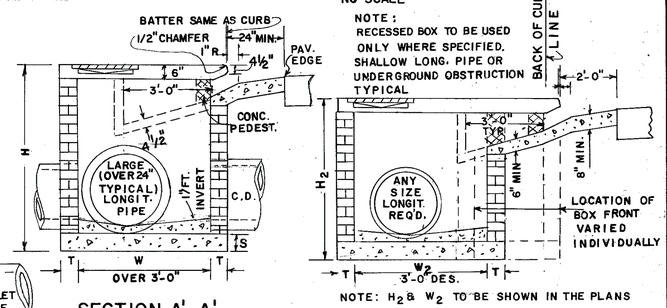



NOTE: CATCH BASIN DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT LEFT FOR NORMAL CATCH BASIN.

## PART PLAN

NO SCALE

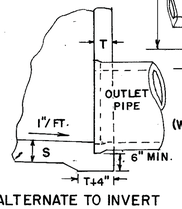
NOTE: RECESSED BOX TO BE USED ONLY WHERE SPECIFIED. SHALLOW LONG. PIPE OR UNDERGROUND OBSTRUCTION TYPICAL




NOTE: $H_2$ & $W_2$ TO BE SHOWN IN THE PLANS

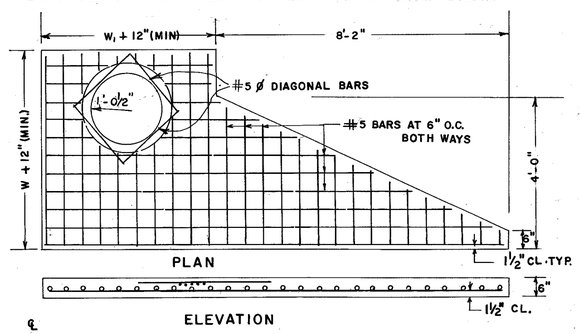
## SECTION A'-A' (WITH LARGE LONGITUDINAL PIPE)

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




ALTERNATE TO INVERT

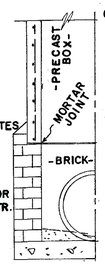
## DETAIL OF TOP REINFORCED CONCRETE SLAB




PLAN

ELEVATION

NOTE: PIPE SIZES, NUMBER, ALIGNMENT, AND INVERT 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.

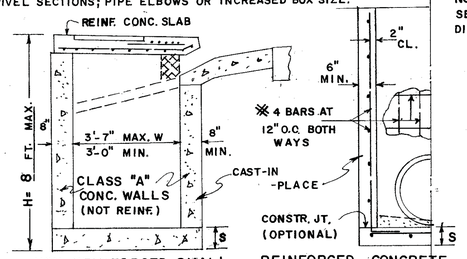



NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRECAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS.

## PRECAST BOX ON BRICK

(HALF-SECTION)

NOTE: TYPICAL TREATMENT FOR SKEWED PIPE ARE: CIRCULAR PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZE.




NON-REINFORCED SMALL BASIN (W1 NOT OVER 3'-7")

REINFORCED CONCRETE (HALF-SECTION)

## 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 CURB (6" HT. OR 8" HT.) & GUTTER

SCALE AS SHOWN

RED. & REDR. AUGUST, 1982

REV. & REDR. R.M.U.
TRA. G.M.E.
CHK. RKC

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

NUMBER 1033D

FORM EF3