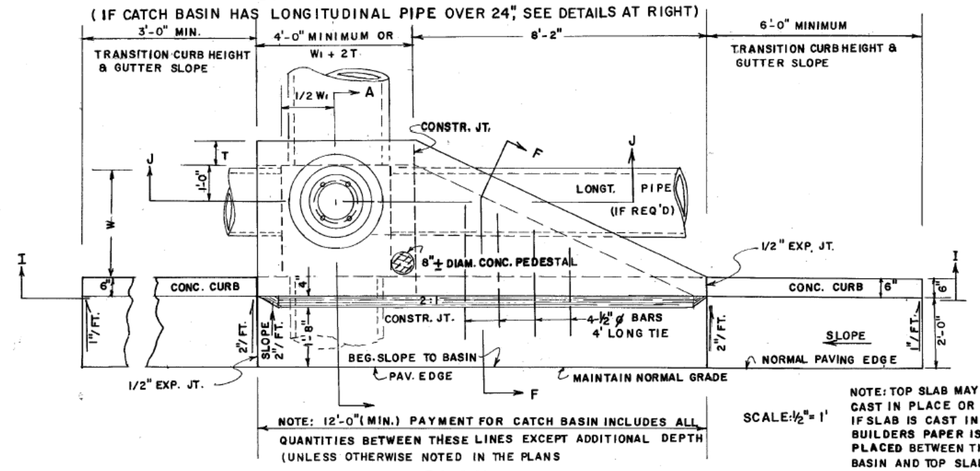
AF 21868

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	P. I. 0010363	64	90

CATCH BASIN

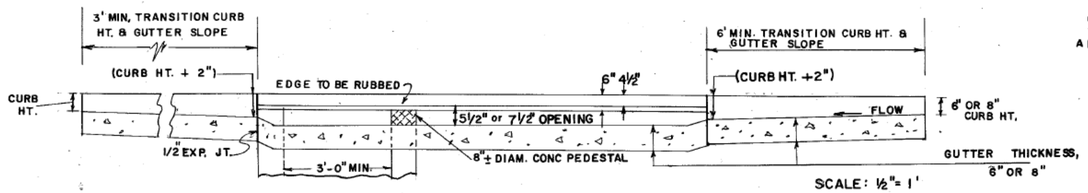
(IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)



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.

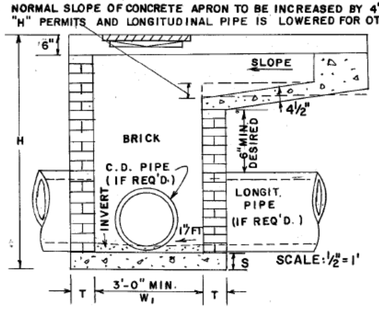
PLAN



SCALE: 1/2" = 1'

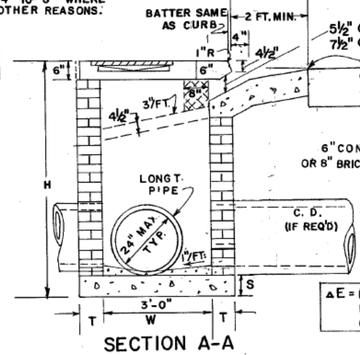
SECTION I-I

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

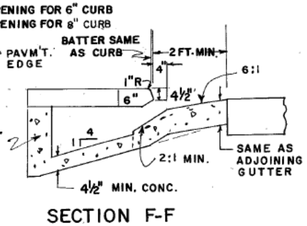


SCALE: 1/2" = 1'

SECTION J-J



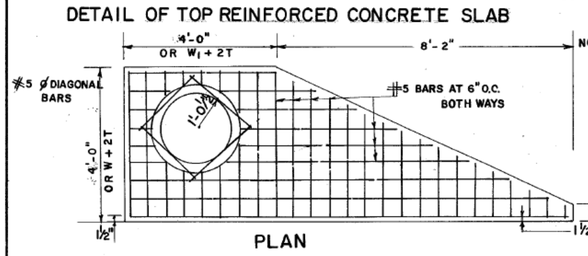
SECTION A-A



SECTION F-F

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

DETAIL OF TOP REINFORCED CONCRETE SLAB

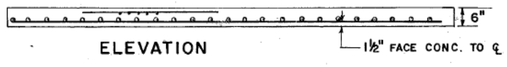


NOTE: ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS, NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

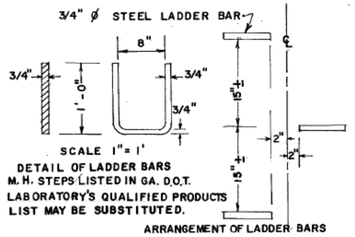
PLAN

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'

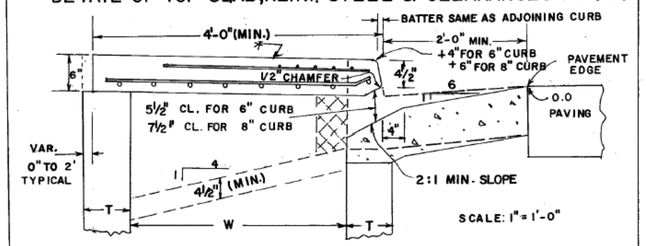
DETAIL OF LADDER BARS

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

ARRANGEMENT OF LADDER BARS

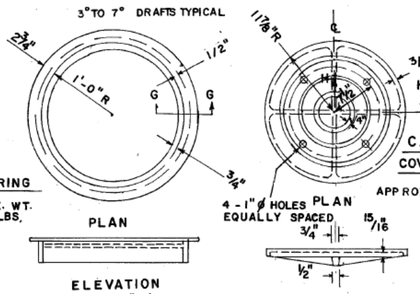
W OR W1 (MAX.)	BOTTOM SLAB MATERIALS	S
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W1 #4 BARS 12" O.C. BOTH WAYS 2" CL. FROM SLAB TOP	8"

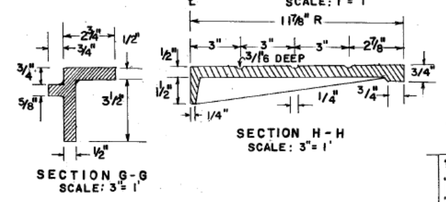
DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.

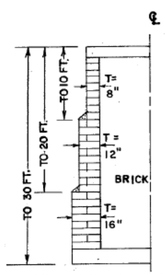


CASTING DETAILS

3° TO 7° DRAFTS TYPICAL







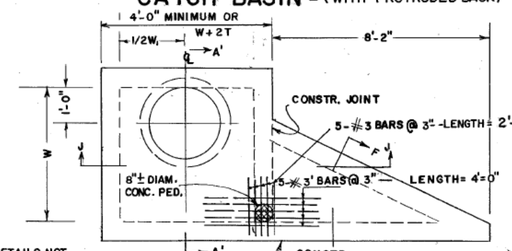
DEPTH LIMITS FOR INCREASING "T"

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)

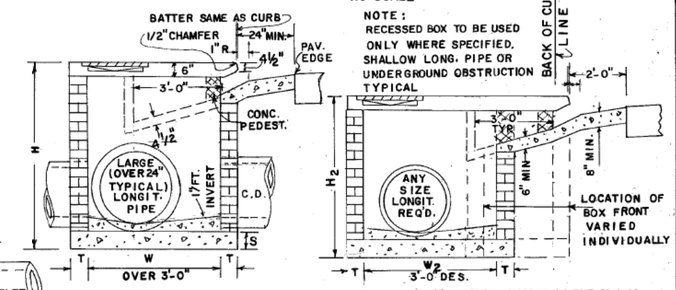


NOTE: CATCH BASIN DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT LEFT FOR NORMAL CATCH BASIN.

PART PLAN

NO SCALE

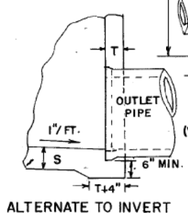
NOTE: RECESSED BOX TO BE USED ONLY WHERE SPECIFIED, SHALLOW LONG. PIPE OR UNDERGROUND OBSTRUCTION TYPICAL



NOTE: H_2 & W_2 TO BE SHOWN IN THE PLANS

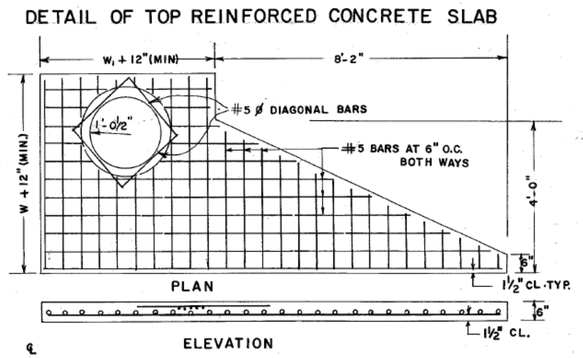
SECTION A'-A'
(WITH LARGE LONGITUDINAL PIPE)

SECTION A'-A'
(WITH RECESSED BOX)



ALTERNATE TO INVERT

DETAIL OF TOP REINFORCED CONCRETE SLAB

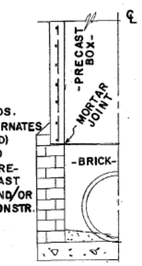


PLAN

ELEVATION

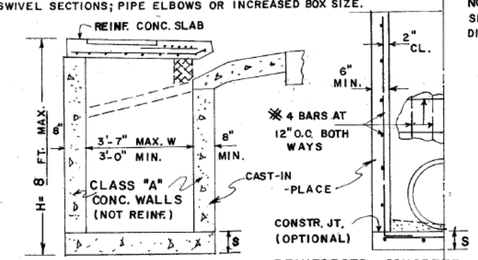
NOTE: PIPE SIZES, NUMBER, ALIGNMENT, AND INVERT SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFICS. INVERTS TO BE FORMED WITH GROUT OR CONCRETE AS DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS.

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.

NUMBER 41-006

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. R.K.C.

(SUBMITTED) Floyd E. Hardy — STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Thomas D. Wilson — STATE HIGHWAY ENGINEER

NUMBER 1033 D

FORM EF3