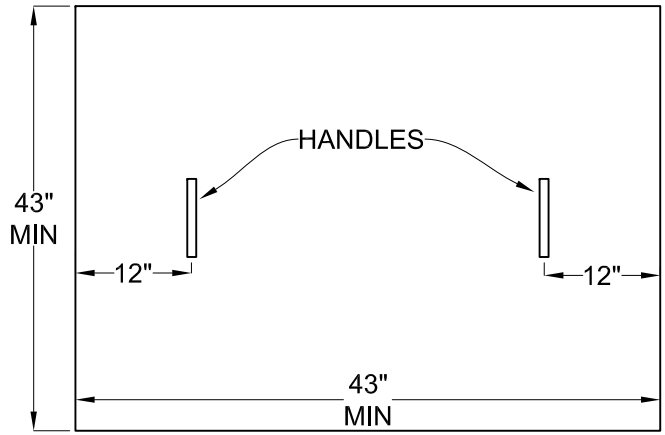
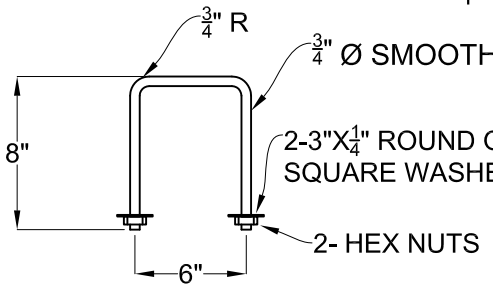
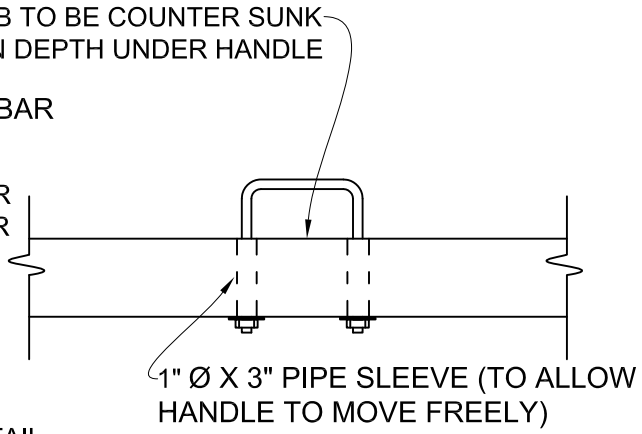


PRECAST CONC.
SLAB

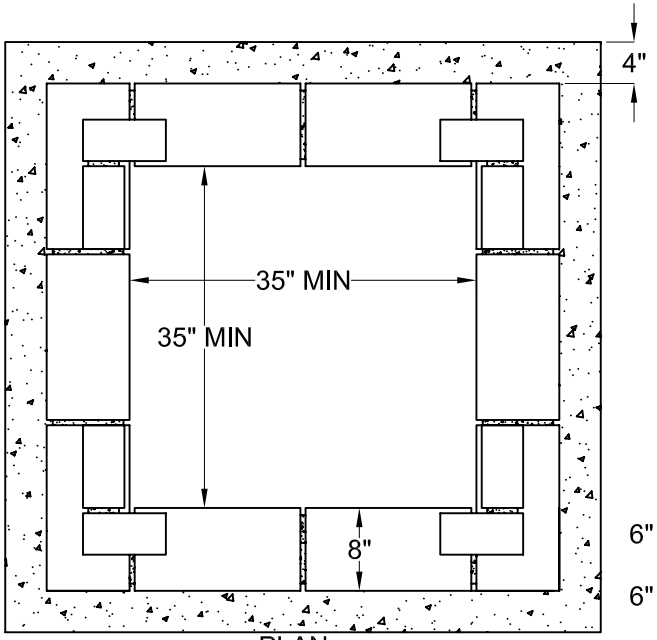




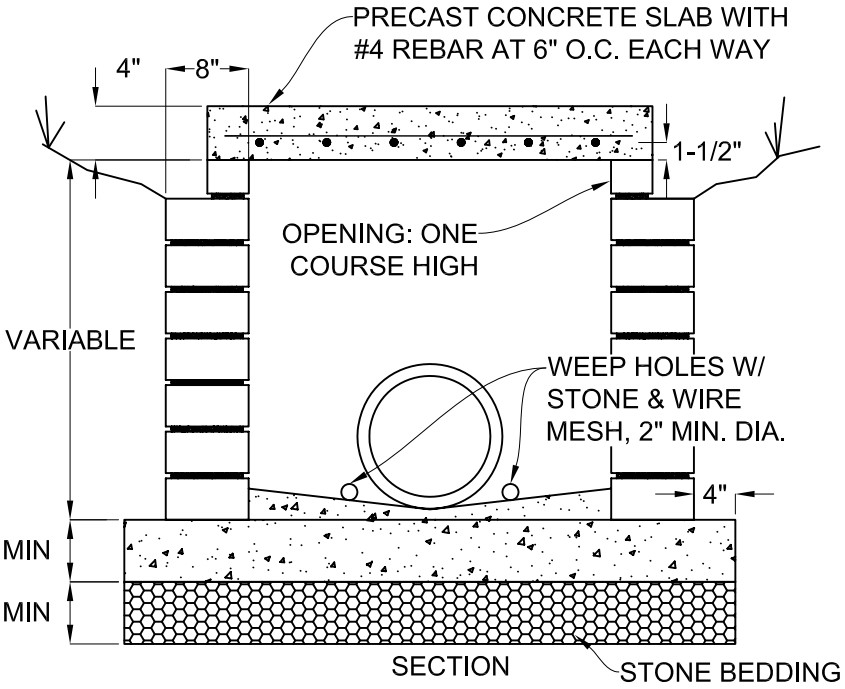
HANDLE DETAIL

NOTES:

1. EITHER SOLID BLOCK OR PRECAST CONCRETE MAY BE USED.
2. CAST IN PLACE DESIGNS TO BE SUBMITTED.
3. CONCRETE WALLS TO BE 6" THICK MIN.
4. STEPS REQUIRED AT 16" O.C. THROUGHOUT, WHERE DEPTH EXCEEDS 5'.
5. USE ONLY 3000 PSI CONCRETE MIX.
6. INSIDE DIMENSION FOR 24" PIPE AND UP, USE PIPE DIAMETER PLUS 12".

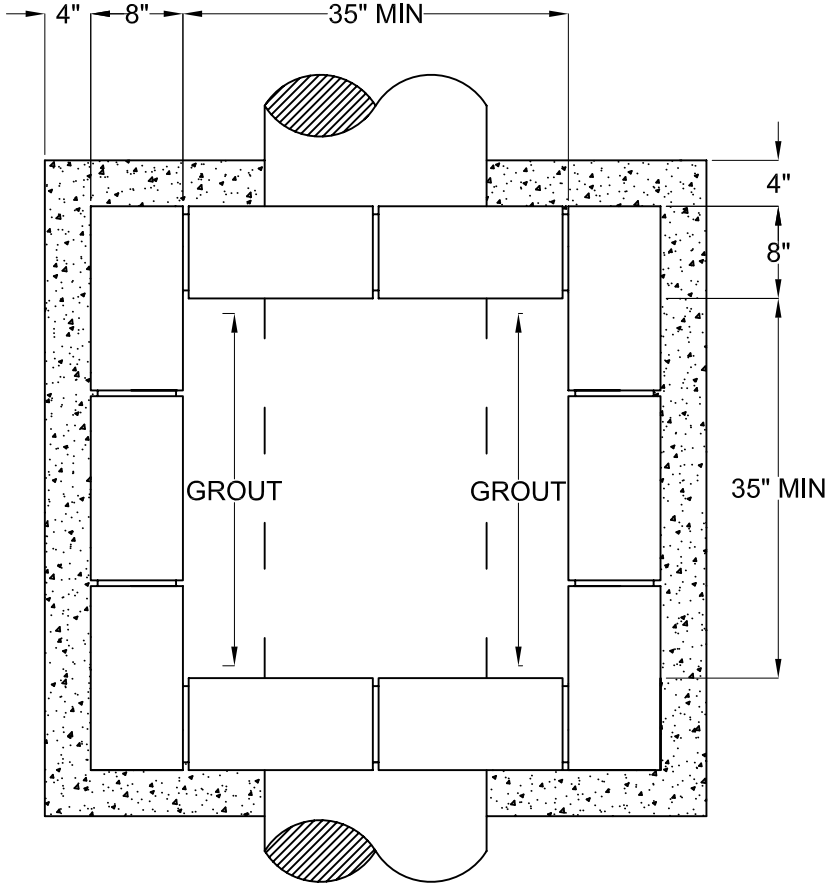


PLAN

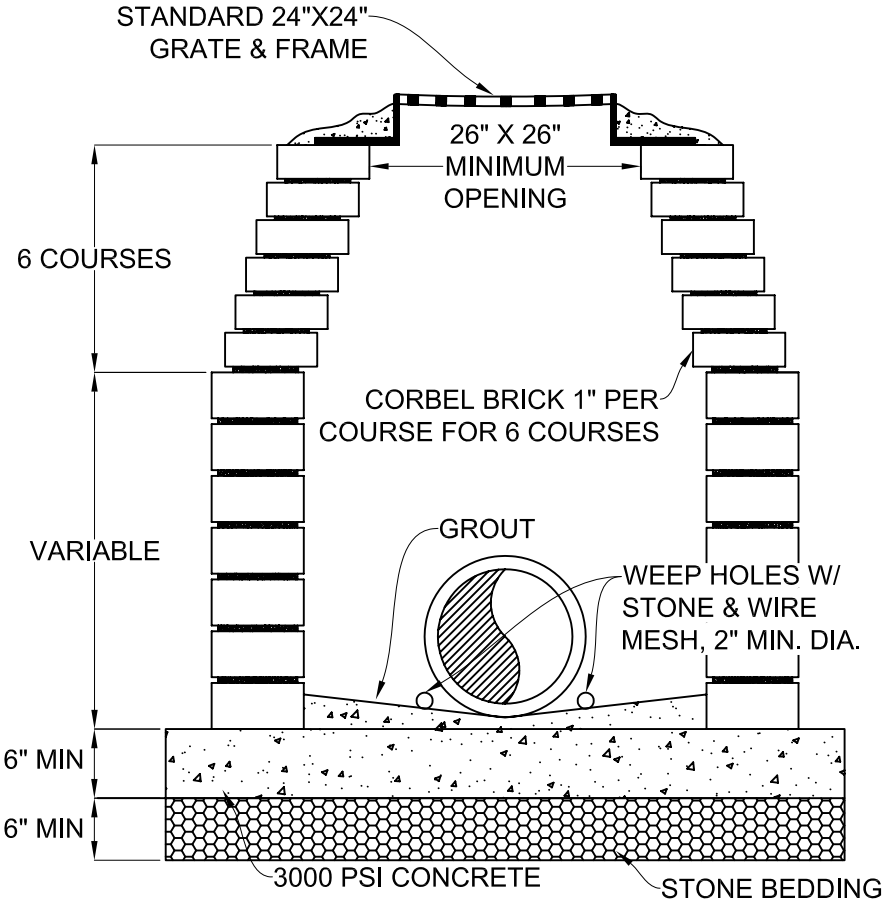


SECTION

TOWN OF APEX STANDARDS	YARD INLET W/ CONCRETE SLAB	STD. NO. 500.01
EFFECTIVE: DECEMBER 18, 2012		SHEET 1 OF 1



PLAN



SECTION

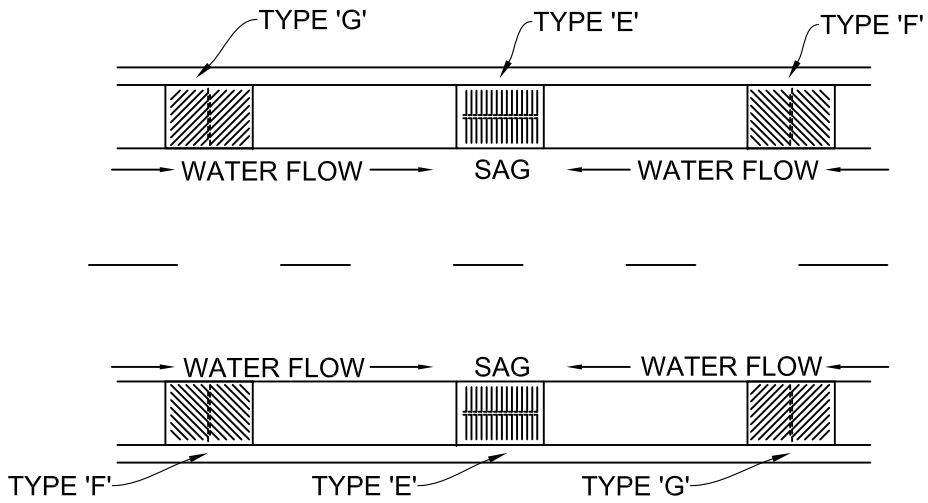
NOTE:

1. EITHER SOLID BLOCK, CONCRETE, OR PRECAST CONCRETE MAY BE USED.

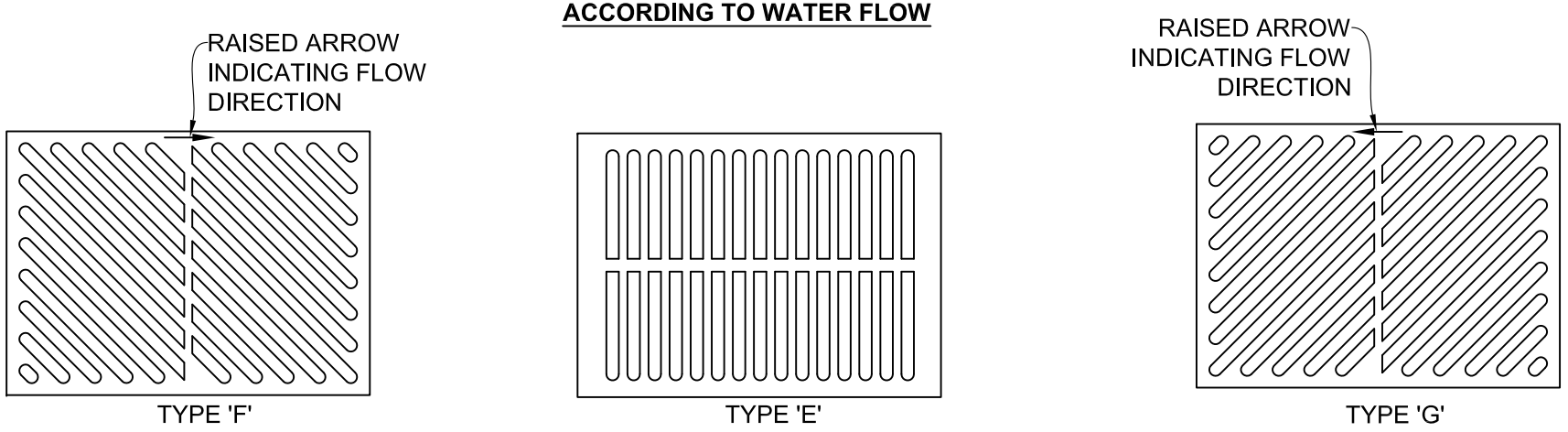
2. FOR 24" R.C.P. AND LARGER--USE PIPE DIA PLUS 12" FOR MINIMUM INSIDE DIMENSION.

3. CAST IN PLACE DESIGNS TO BE SUBMITTED.

TOWN OF APEX STANDARDS	YARD INLET W/ GRATE & FRAME	STD. NO. 500.02
EFFECTIVE: DECEMBER 18, 2012		SHEET 1 OF 1



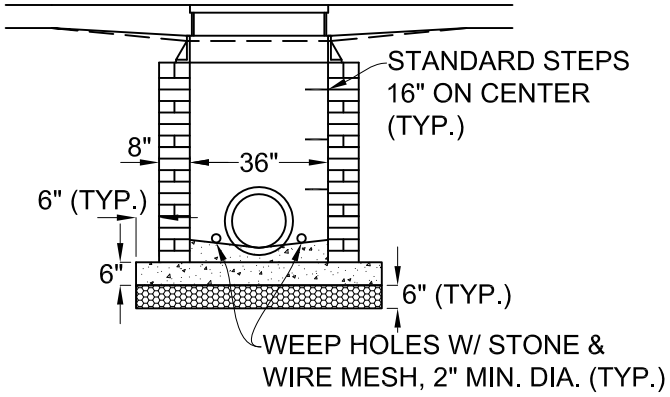
DETAIL SHOWING TYPES OF GRATES TO BE USED ACCORDING TO WATER FLOW

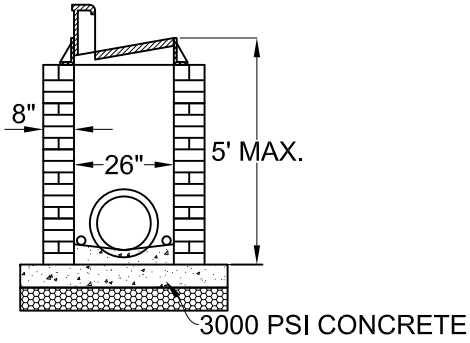


GRATE TYPES

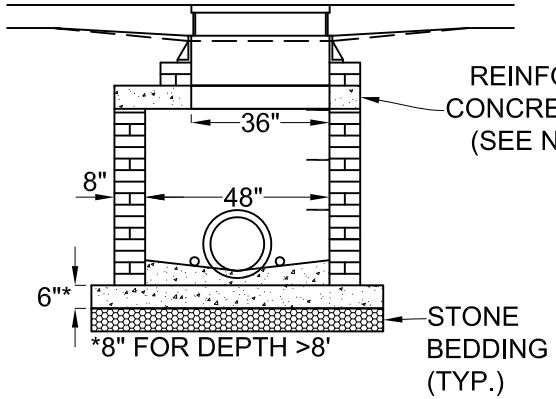
TOWN OF APEX STANDARDS	GRATE PLACEMENT DETAIL FOR CATCH BASIN	STD. NO. 500.03
EFFECTIVE: DECEMBER 3, 2002		SHEET 1 OF 1

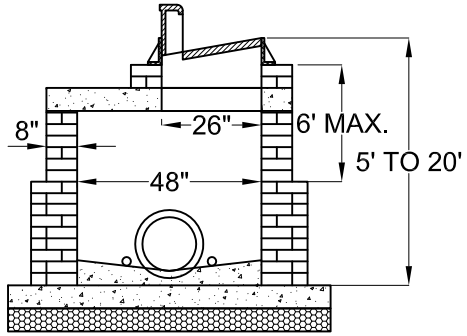
SHALLOW TYPE
(5 FEET OR LESS IN DEPTH)



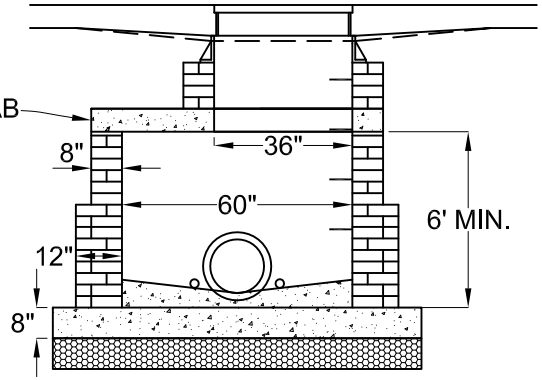


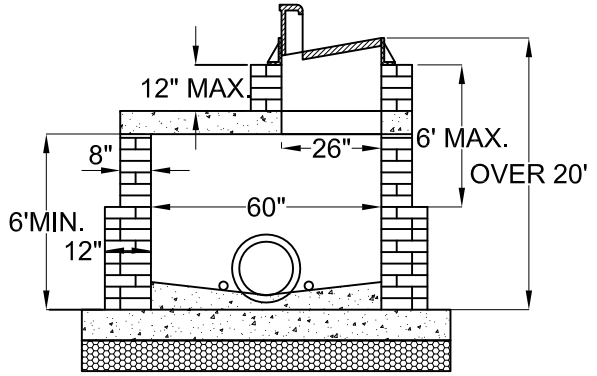
INTERMEDIATE TYPE (4'X4')
(5 FEET TO 20 FEET IN DEPTH)





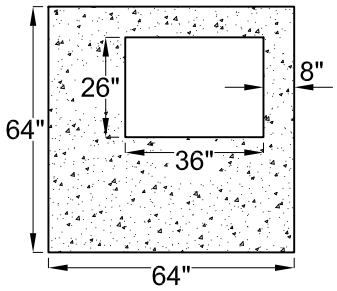
DEEP TYPE (5'X5')
(OVER 20 FEET IN DEPTH)



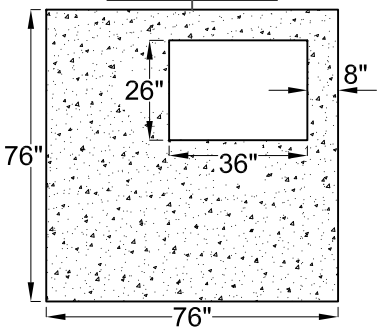


NOTES:
1. SLAB THICKNESS AND REINFORCEMENT FOR SOIL AND TRAFFIC LOADING SHALL BE AS SPECIFIED BY AN ENGINEER.
2. ALTERNATE BLOCK LAYING DIRECTION EVERY THIRD COURSE.
3. FRAME, GRATE, & HOOD PER NCDOT STANDARD 840.03.

SLAB DETAIL



SLAB DETAIL



TOWN OF APEX
STANDARDS

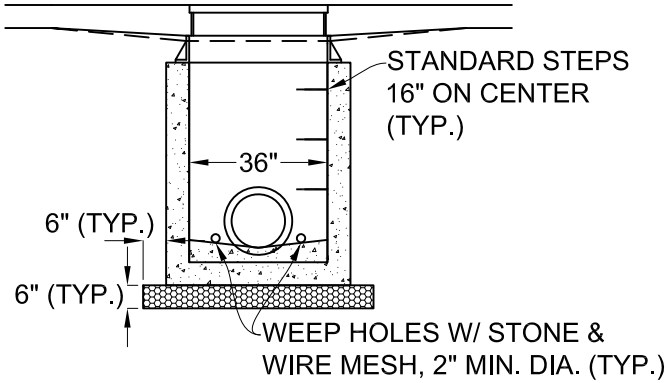
EFFECTIVE: DECEMBER 18, 2012

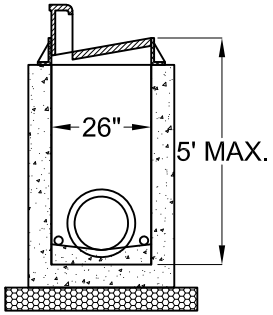
BLOCK CATCH BASIN DETAIL

STD. NO.
500.04

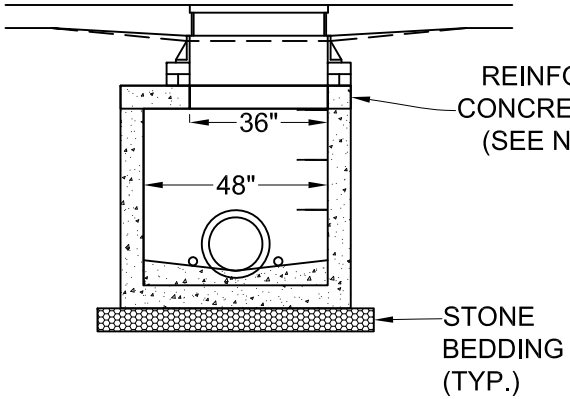
SHEET 1 OF 1

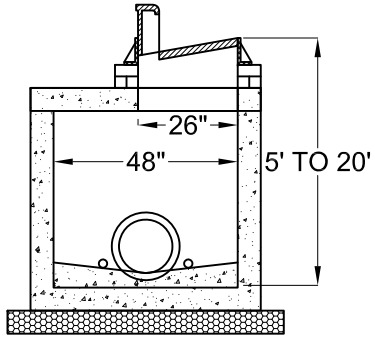
SHALLOW TYPE
(5 FEET OR LESS IN DEPTH)



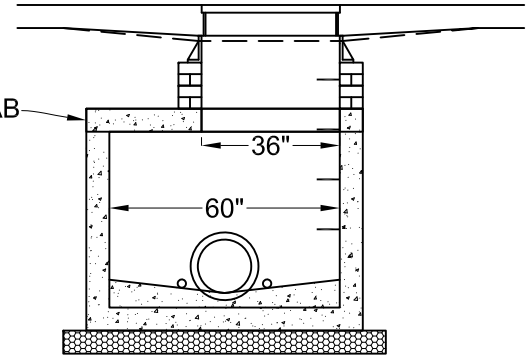


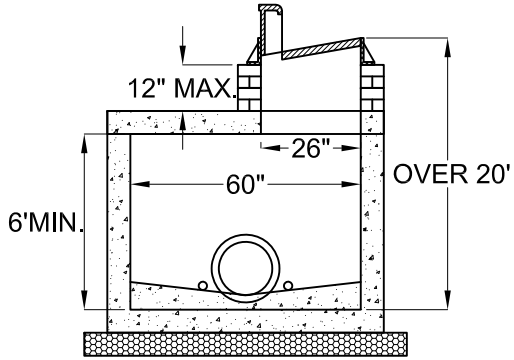
INTERMEDIATE TYPE (4'X4')
(5 FEET TO 20 FEET IN DEPTH)





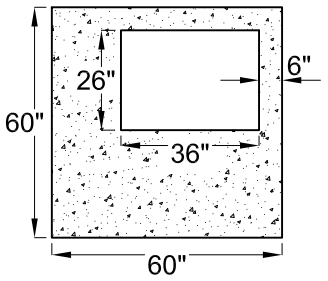
DEEP TYPE (5'X5')
(OVER 20 FEET IN DEPTH)



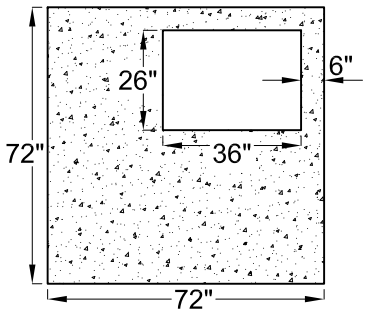


NOTE:
1. SLAB THICKNESS AND REINFORCEMENT FOR SOIL AND TRAFFIC LOADING SHALL BE AS SPECIFIED BY AN ENGINEER AND SHOWN ON PLANS.
2. FRAME, GRATE, & HOOD PER NCDOT STANDARD 840.03.
3. CONCRETE SHALL BE 4000 PSI MIN. FOR ALL PRECAST CONCRETE CATCH BASINS.
4. PRECAST CONCRETE STRUCTURES MAY ONLY BE INSTALLED TO DEPTHS CERTIFIED AS ACCEPTABLE BY THE MANUFACTURER.

SLAB DETAIL



SLAB DETAIL



TOWN OF APEX
STANDARDS

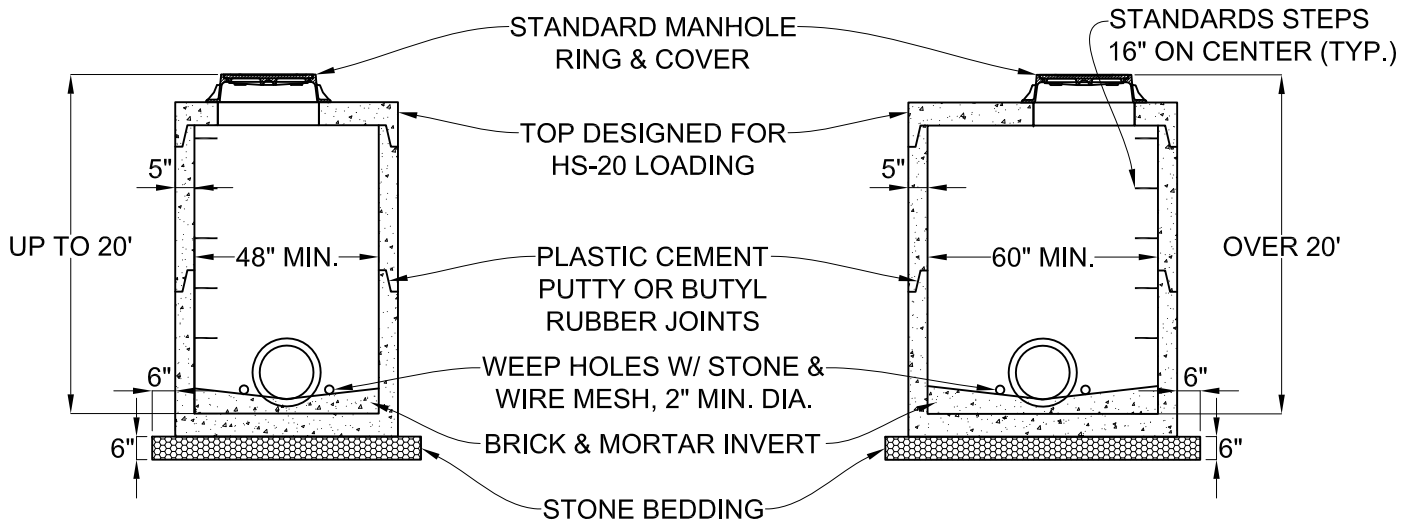
EFFECTIVE: MARCH 6, 2018

PRECAST CATCH BASIN DETAIL

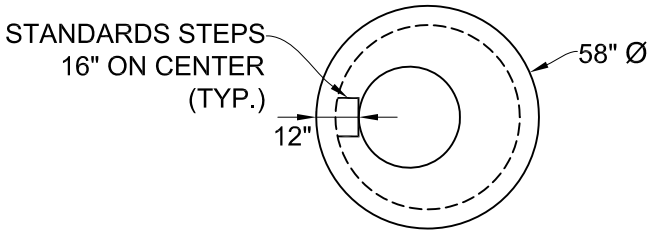
STD. NO.
500.05
SHEET 1 OF 1

STANDARD TYPE
(UP TO 20 FEET IN DEPTH)

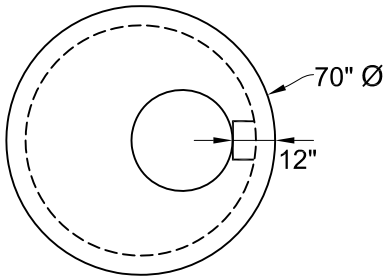
DEEP TYPE
(OVER 20 FEET IN DEPTH)



FLAT TOP DETAIL



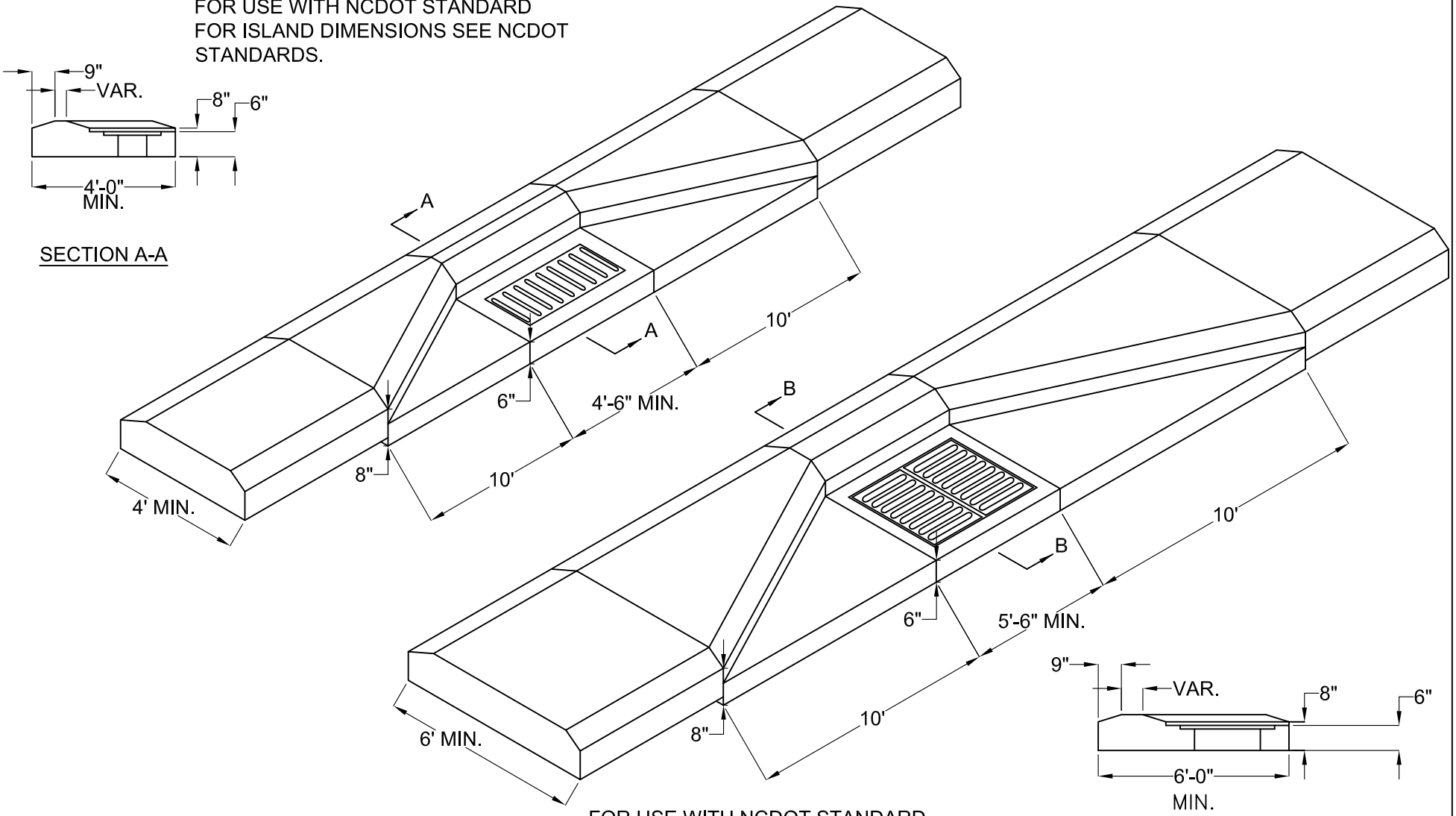
FLAT TOP DETAIL



TRAFFIC AREAS: ECCENTRIC CONE ONLY
NON-TRAFFIC AREAS: FLAT TOP ONLY

TOWN OF APEX STANDARDS	PRECAST MANHOLE JUNCTION BOX	STD. NO.
EFFECTIVE: DECEMBER 18, 2012		500.06
		SHEET 1 OF 1

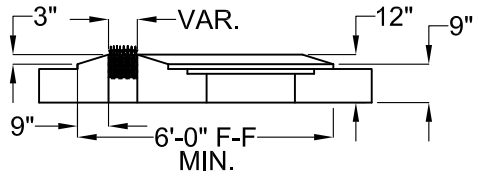
FOR USE WITH NCDOT STANDARD
FOR ISLAND DIMENSIONS SEE NCDOT STANDARDS.



FOR USE WITH NCDOT STANDARD
FOR ISLAND DIMENSIONS SEE NCDOT STANDARDS.

SECTION B-B

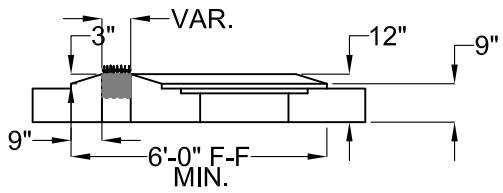
TOWN OF APEX STANDARDS	MEDIAN CURB INLET	STD. NO. 500.07
EFFECTIVE: DECEMBER 3, 2002		SHEET 1 OF 3



SECTION A-A

FOR USE WITH NCDOT STANDARD
FOR ISLAND DIMENSIONS SEE NCDOT
STANDARDS.

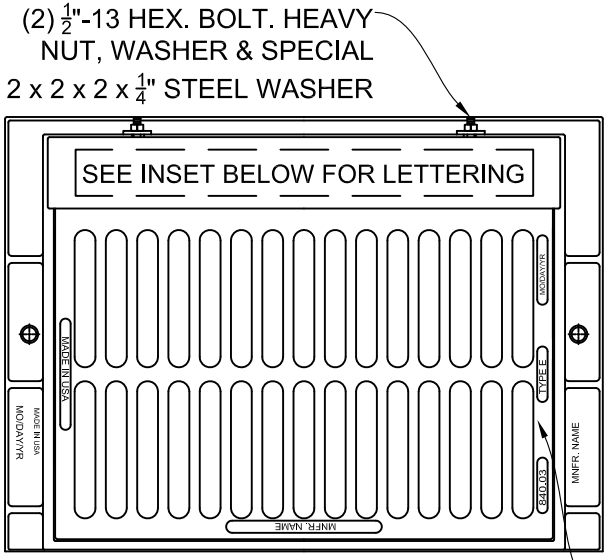
TOWN OF APEX STANDARDS	MEDIAN CURB INLET	STD. NO.
EFFECTIVE: DECEMBER 3, 2002		500.07
		SHEET 2 OF 3

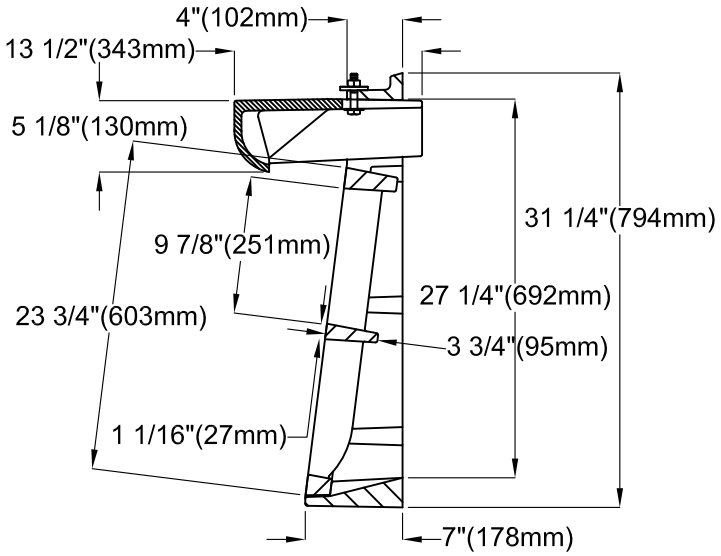


SECTION A-A

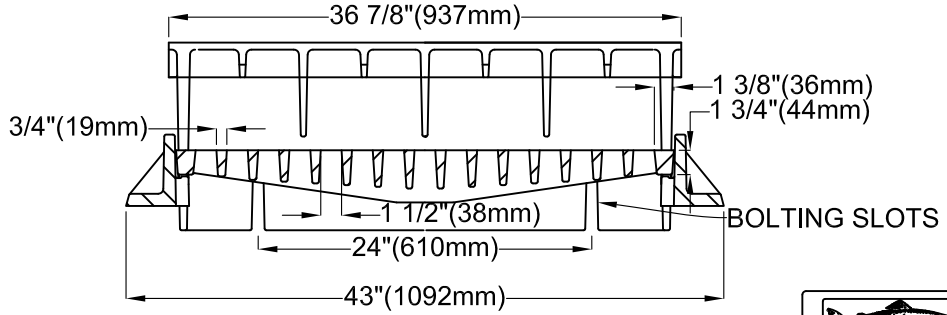
FOR USE WITH NCDOT STANDARD
FOR ISLAND DIMENSIONS SEE NCDOT
STANDARDS.

TOWN OF APEX STANDARDS	MEDIAN CURB INLET	STD. NO. 500.07
EFFECTIVE: DECEMBER 3, 2002		SHEET 3 OF 3





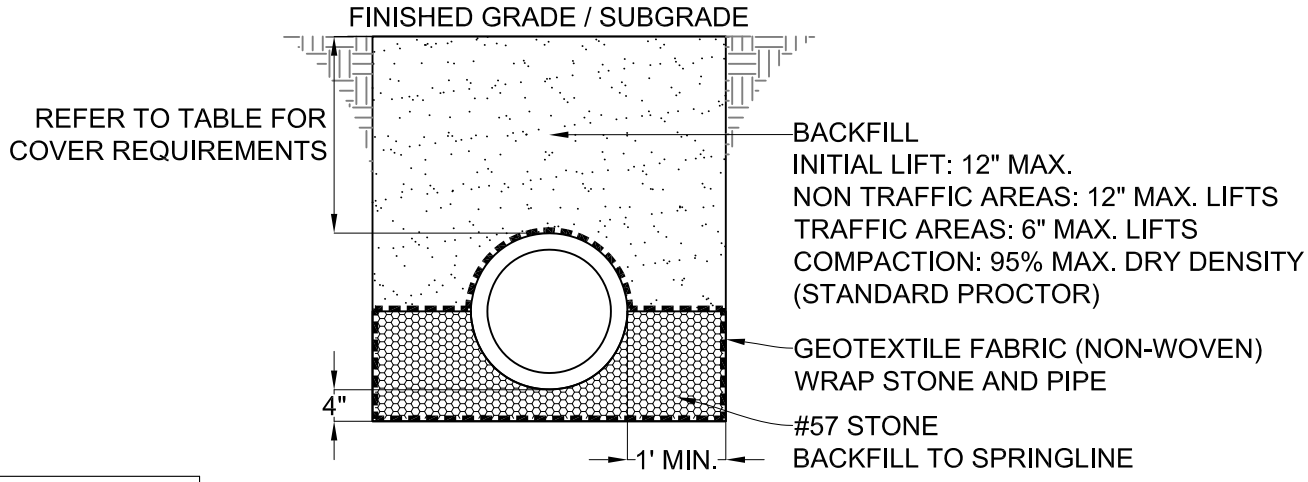
SECTION



SECTION

HOOD LETTERING INSET

TOWN OF APEX STANDARDS	FRAME DETAIL FOR CATCH BASIN	STD. NO.
EFFECTIVE: DECEMBER 3, 2002		500.08
		SHEET 1 OF 1



	RCP	
CLASS	**MIN (ft)**	**MAX (ft)**
III	2	20
IV	1	30

	CPP		CSP		CAP	
Pipe Diameter (in)	**MIN (in)**	**MAX (ft)**	**MIN (in)**	**MAX (ft)**	**MIN (in)**	**MAX (ft)**
15	12	28	12	158	12	98
18	12	28	12	131	12	81
21			12	113	12	69
24	12	26	12	98	12	60
30	12	26	12	79	12	57
36	12	20	12	65	12	47
42	12	20	12	55	12	40
48	12	20	12	48	12	35
54			12	56	15	31
60	24	20	12	50	15	28

NOTES:

1. EXCAVATE TO 4 INCHES BELOW THE PROPOSED PIPE ELEVATION.
2. PROVIDE 4 INCHES STONE BEDDING AND STONE BACKFILL TO SPRINGLINE.
3. WHERE BELL AND SPIGOT PIPE IS USED, PROVIDE RECESSES TO RECEIVE PIPE BELL.
4. UNDERCUT UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER AND BACKFILL WITH STONE OR OTHER APPROVED MATERIAL.
5. BACKFILL MATERIAL SHALL BE APPROVED SUITABLE MATERIAL.
6. WHERE NECESSARY, TEMPORARILY DIVERT SURFACE WATER TO MAINTAIN A DRY CONDITION IN THE PIPE FOUNDATION. DIRECT THIS TEMPORARY FLOW INTO SUITABLE EROSION CONTROL DEVICES.

TOWN OF APEX STANDARDS

EFFECTIVE: JUNE 5, 2018

STORM DRAIN PIPE BEDDING & BACKFILLING

STD. NO.

500.09