

**NOTES**

1. THIS MANHOLE IS FOR PIPES UP TO 36" DIAMETER.
2. MANHOLE SHALL BE CONSTRUCTED OF REINFORCED CONCRETE (MIX NO. 2). BRICK AND MORTAR MAY BE USED IN NON-TRAFFIC AREAS ONLY
3. BENCH HEIGHT ABOVE OUTGOING PIPE INVERT SHALL BE HALF THE DIAMETER OF THE PIPE.
4. VERTICAL DEPTH PAYMENT PER LINEAR FOOT SHALL INCLUDE ALL DEPTHS IN EXCESS OF THE 3'-10".
5. WALL REINFORCEMENT SHALL BE NO. 4 DEFORMED BARS @ 6" C/C, 2 WAYS, AND HAVE 3-1/2" COVER.
6. BASE REINFORCEMENT SHALL BE NO. 4 BARS @ 6" C/C, 2 WAYS, AND HAVE 2" COVER FROM TOP OF BASE.
7. MANHOLE HAS BEEN DESIGNED FOR HS-25 LOADING, ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

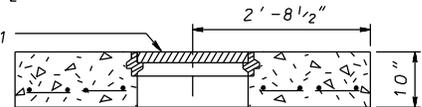
REINFORCING TO BE NO. 7 DEFORMED BARS @ 6" C/C 2 WAYS, 2 COVER.

NO. 7 BARS EXTRA AS SHOWN

2'-0" DIAM. OPENING FOR TYPE 'A' FRAME & COVER

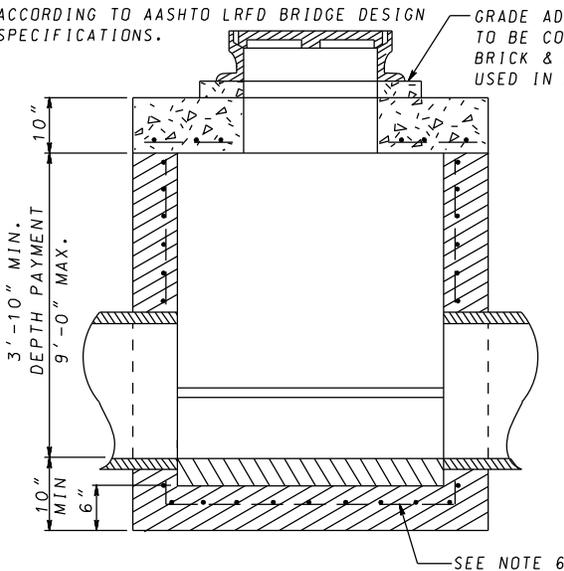
**CONCRETE SLAB**  
(CONCRETE MIX NO. 2)

FOR DETAILS OF TYPE 'D' FRAME & COVER SEE STD. MD 383.61



**SECTION C-C**  
PRECAST CONC. SLAB WITH TYPE 'D' FRAME & COVER (NON-TRAFFIC AREAS)

STANDARD TYPE 'A' MANHOLE FRAME & COVER SEE STANDARDS MD-383.31 & 383.32 (WHEN IN NON-TRAFFIC AREAS USE STD. TYPE 'D' FRAME & COVER, SEE SECTION C-C PRECAST CONC. SLAB.



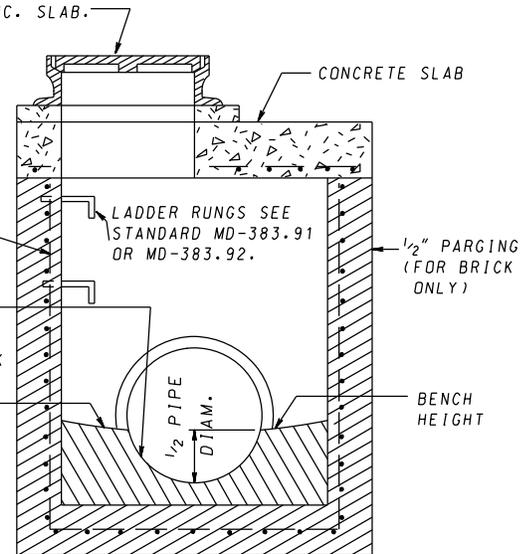
**SECTION A-A**

GRADE ADJUSTMENT TO BE CONC. MIX NO. 2 BRICK & MORTAR MAY BE USED IN NON-TRAFFIC AREAS.

SEE NOTE 5  
CHANNEL SHALL BE CONCRETE OR BRICK

CONCRETE OR BRICK ON EDGE 1/4" FALL PER FT.

SEE NOTE 6



**SECTION B-B**

SPECIFICATION <b>305</b>	CATEGORY CODE ITEMS	
APPROVED	 DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT	
	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL <b>10-1-01</b>	APPROVAL <b>3-1-83</b>
	REVISED <b>10-1-01</b>	REVISED <b>4-26-89</b>
	REVISED <b>10-7-14</b>	REVISED <b>9-29-14</b>
	REVISED	REVISED

**Maryland Department of Transportation**  
**STATE HIGHWAY ADMINISTRATION**  
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

**48" SQUARE**  
**STANDARD SHALLOW MANHOLE**

STANDARD NO.

MD 383.00