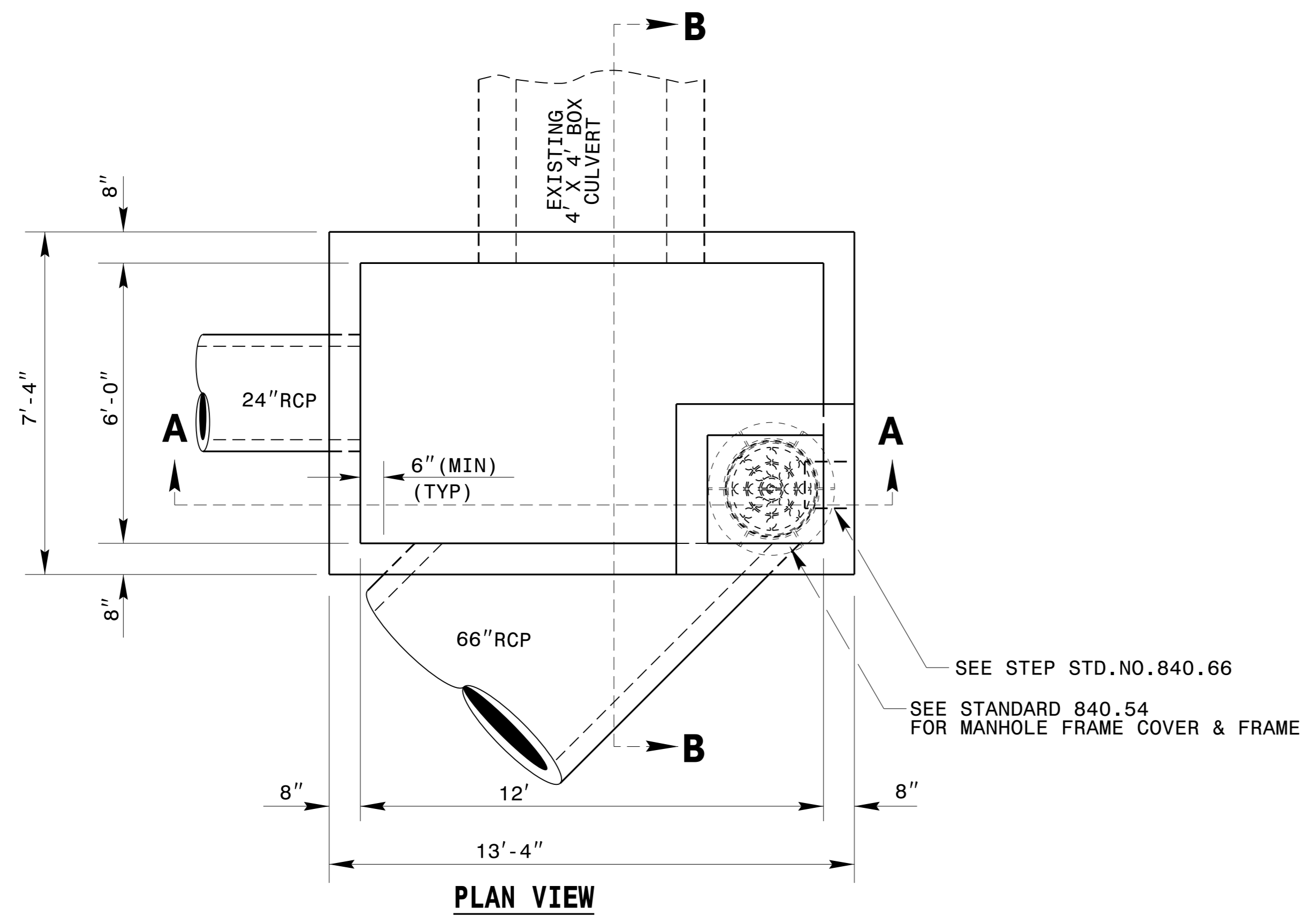
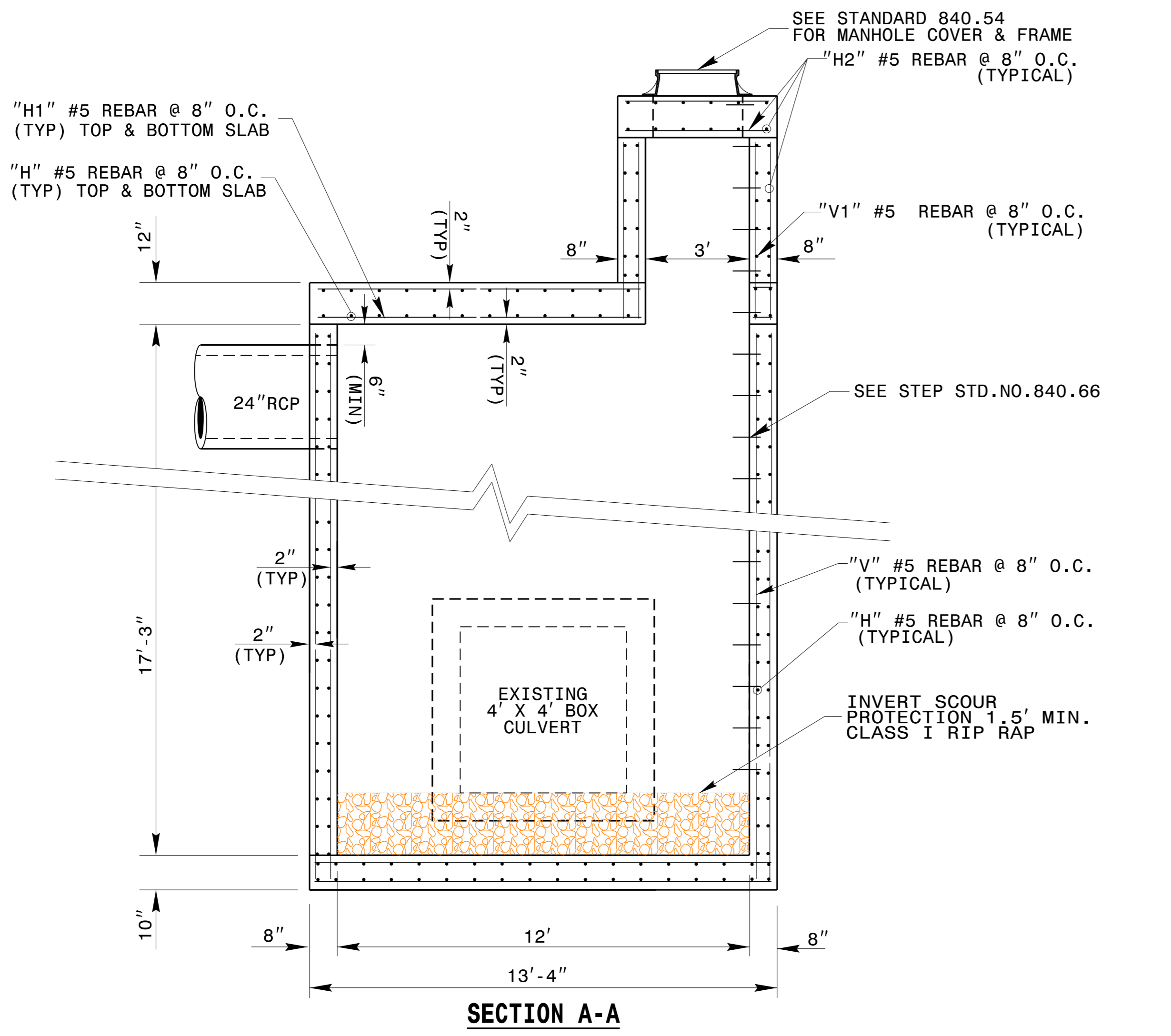


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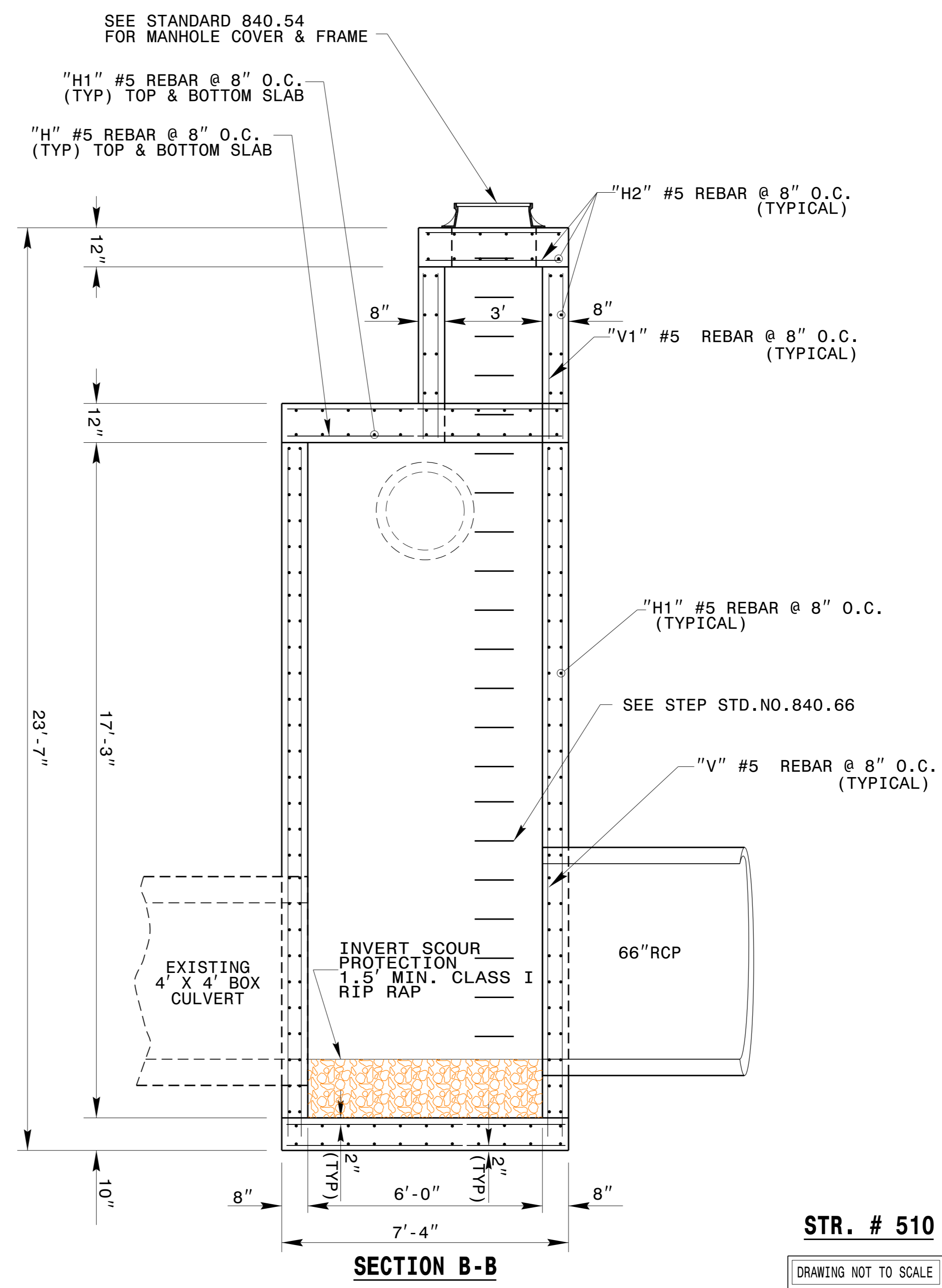
**GENERAL NOTES:**  
 USE CLASS "B" CONCRETE THROUGHOUT.  
 PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.  
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.  
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.  
 INSTALL MANHOLE IN POSITION AS DIRECTED BY THE ENGINEER. CUT AND BEND ALL REBAR CROSSING THIS OPENING TO ALLOW 2" MINIMUM CONCRETE COVERAGE.  
 CHAMFER ALL EXPOSED CORNERS 1".  
 2" MINIMUM CONCRETE COVERAGE ON ALL REBAR.  
 HEIGHT DIMENSIONS MAY BE ADJUSTED DOWN FOR SMALLER PIPES AS DIRECTED BY THE ENGINEER.



**PLAN VIEW**



**SECTION A-A**



**SECTION B-B**

BILL OF MATERIALS				
BAR	NO.	SIZE	LENGTH	WEIGHT
H	180	#5	7'-0"	1314
H1	152	#5	10'-11"	1731
H2	42	#5	4'-0"	165
V	116	#5	17'-9"	2148
V1	48	#5	4'-2"	209
Z	14	#5	4'-0"	58
TOTAL REINF. STEEL (LBS.)				5625
TOTAL CONC. (CU. YDS.)				22.5

\* 0.88 CU. YD. DEDUCTION FOR 1-66" RC PIPE  
 \* 0.30 CU. YD. PER FOOT OF RISER HEIGHT  
 \* NO DEDUCTION HAS BEEN MADE FOR PIPES



DocuSigned by:  
 Joel S. Howerton  
 873F9D17DCDC48F...  
 11/5/2015

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS AND DEVELOPMENT UNIT**  
 Office 919-707-6950 FAX 919-250-4119

**TRAFFIC BEARING JUNCTION BOX WITH INVERT SCOUR PROTECTION AND MANHOLE**

**STR. # 510**

DRAWING NOT TO SCALE

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