

PROJECT REFERENCE NO. R-5799	SHEET NO. 2D-3
STRUCTURAL DESIGN ENGINEER	
6/15/2023	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTES:

- ALL EXPOSED CORNERS TO BE CHAMFERED 1".
- CLASS "A" CONCRETE TO BE USED THROUGHOUT.
- USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
- 2" MINIMUM CONCRETE COVERAGE ON ALL REBAR, UNLESS NOTED OTHERWISE.
- REBAR CROSSING PIPE OPENINGS OR PASSING WITHIN 2" OF A PIPE SHALL BE CUT, BENT, OR OTHERWISE RESHAPED SO AS TO CLEAR THE OPENING.
- IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00.

THE COST OF REINFORCING STEEL BARS SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF "REINFORCED CONCRETE DRAINAGE STRUCTURE."

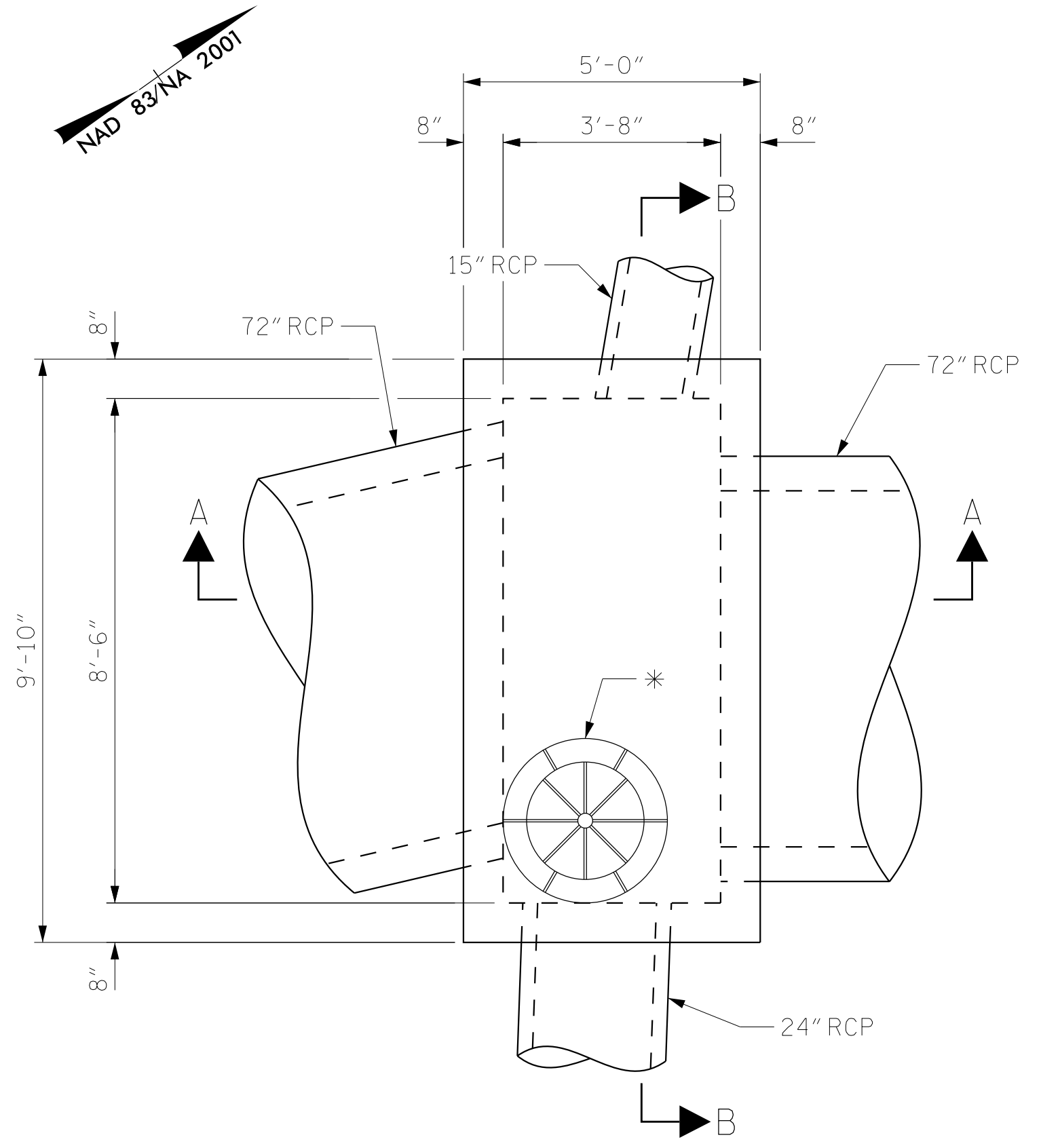
REINFORCING STEEL SHALL BE CUT, BENT, OR RELOCATED TO POSITION PIPE AS DIRECTED BY THE ENGINEER.

ALL MATERIAL AND WORKMANSHIP SHALL BE OF GOOD QUALITY AND SHALL BE APPROVED BY THE ENGINEER.

CONCRETE QUANTITIES DO NOT ACCOUNT FOR PIPE OPENINGS.

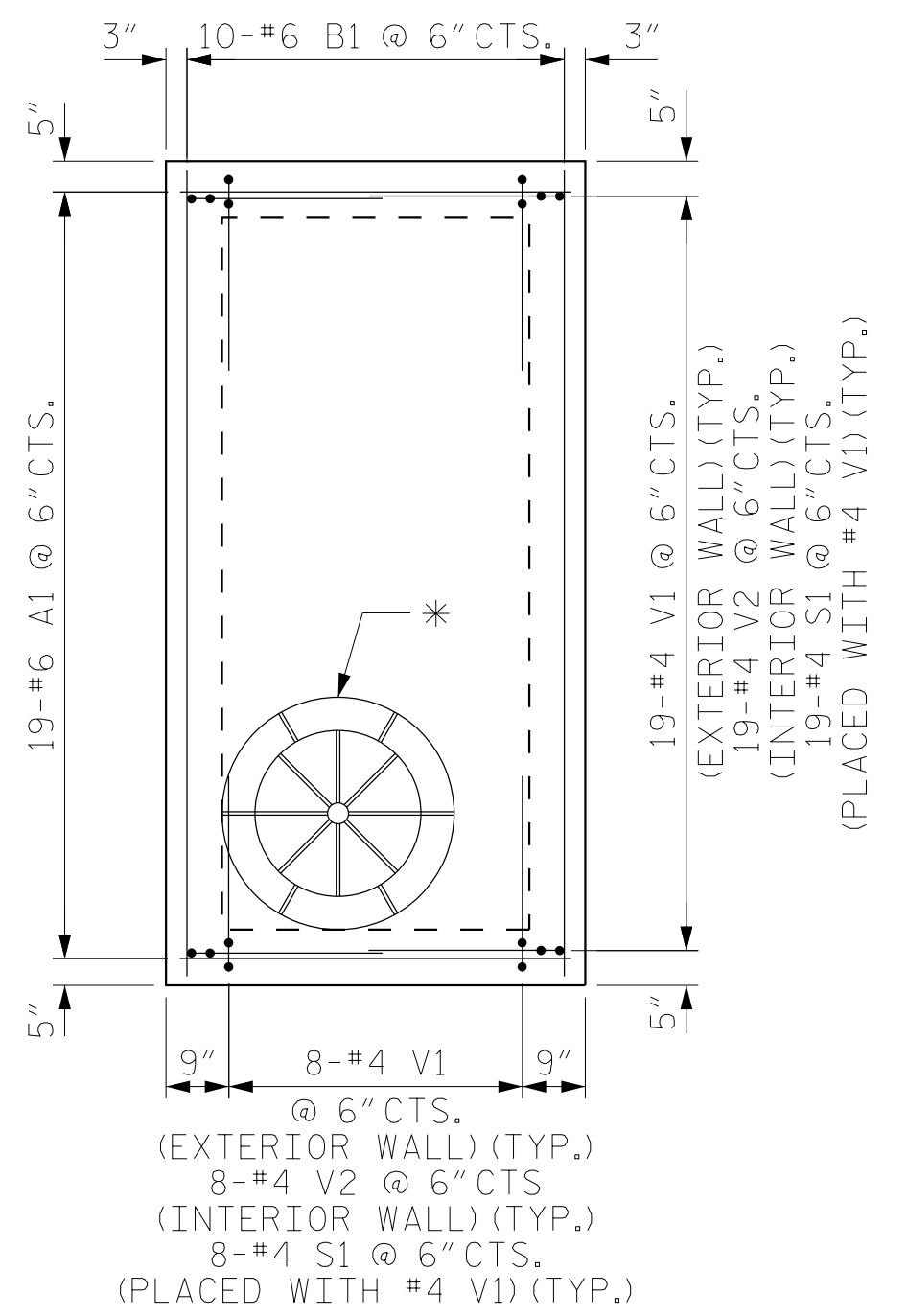
PROVIDE STEPS AT 12" CENTERS IN ACCORDANCE WITH NCDOT STD. NO. 840.66.

ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB.)



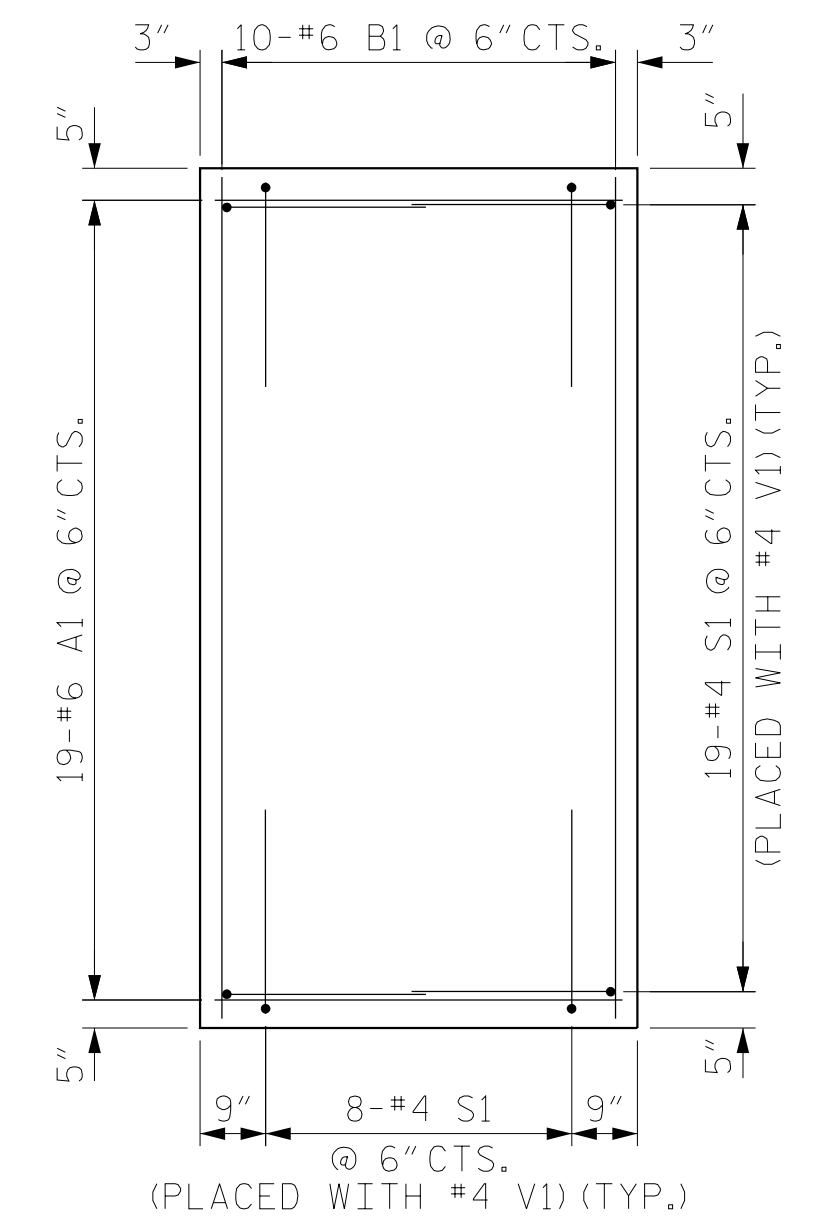
PLAN VIEW - 0529

* MANHOLE FRAME AND COVER SEE NCDOT STD. NO. 840.54



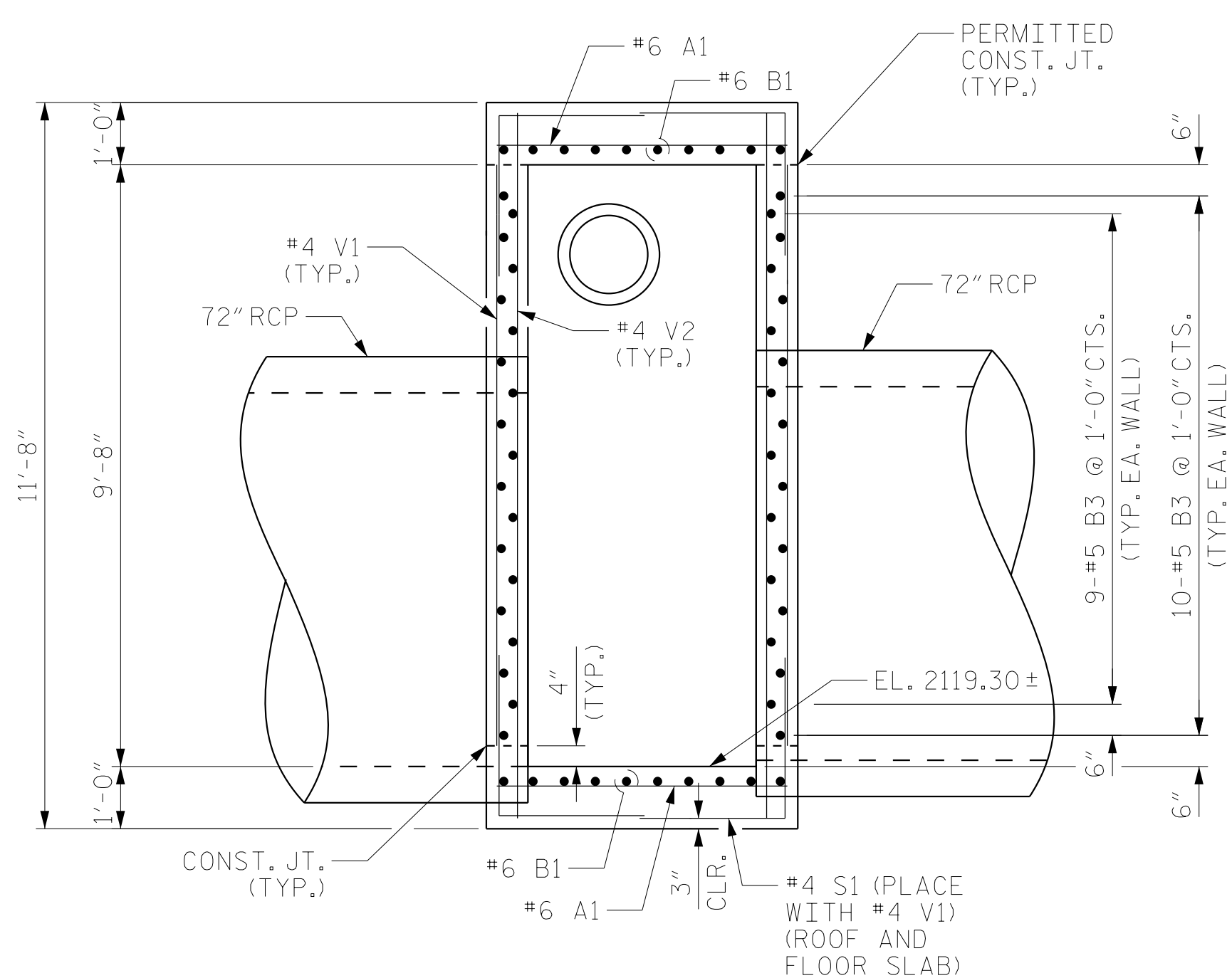
PLAN OF ROOF SLAB

* MANHOLE FRAME AND COVER SEE NCDOT STD. NO. 840.54

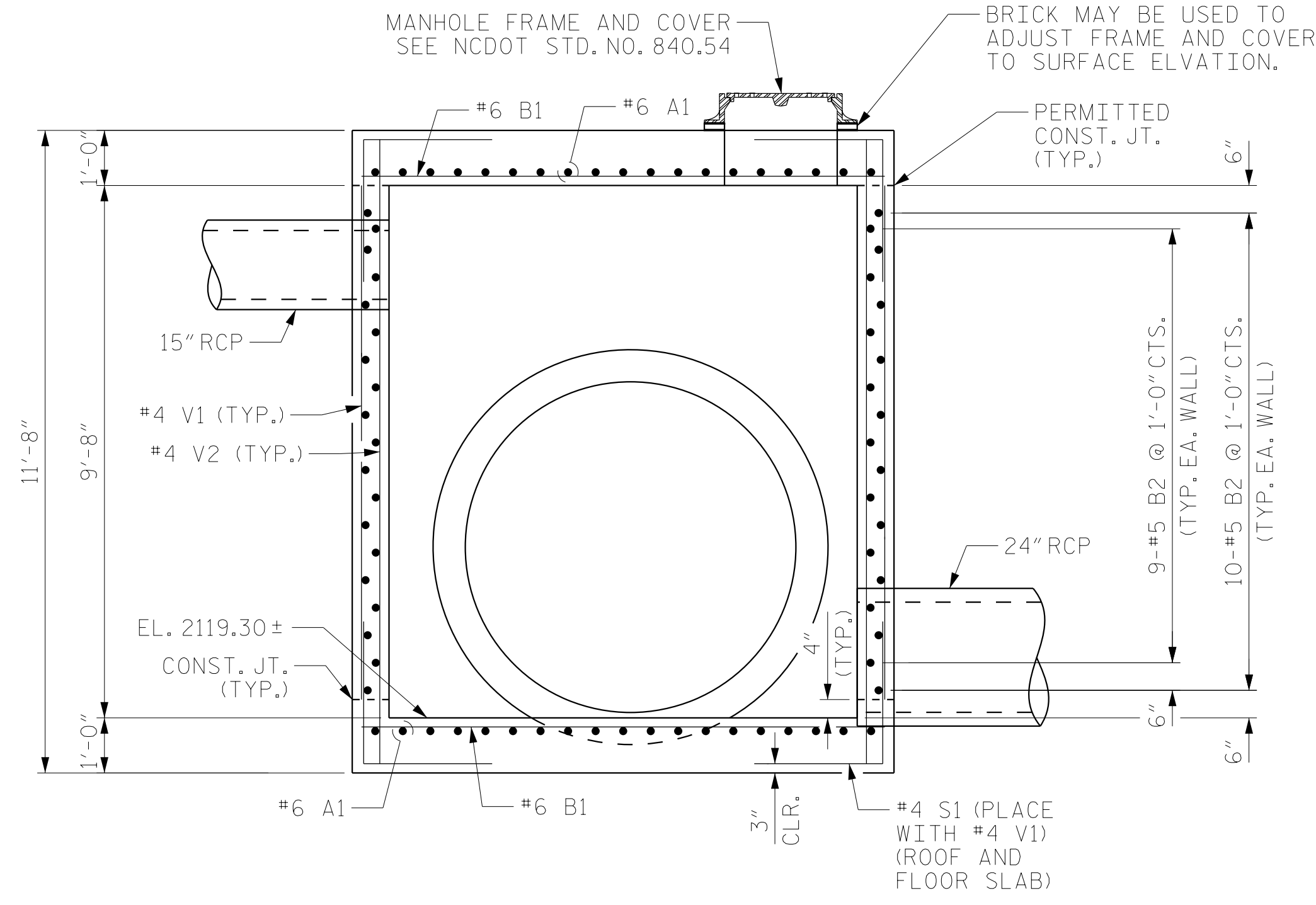


PLAN OF FLOOR SLAB

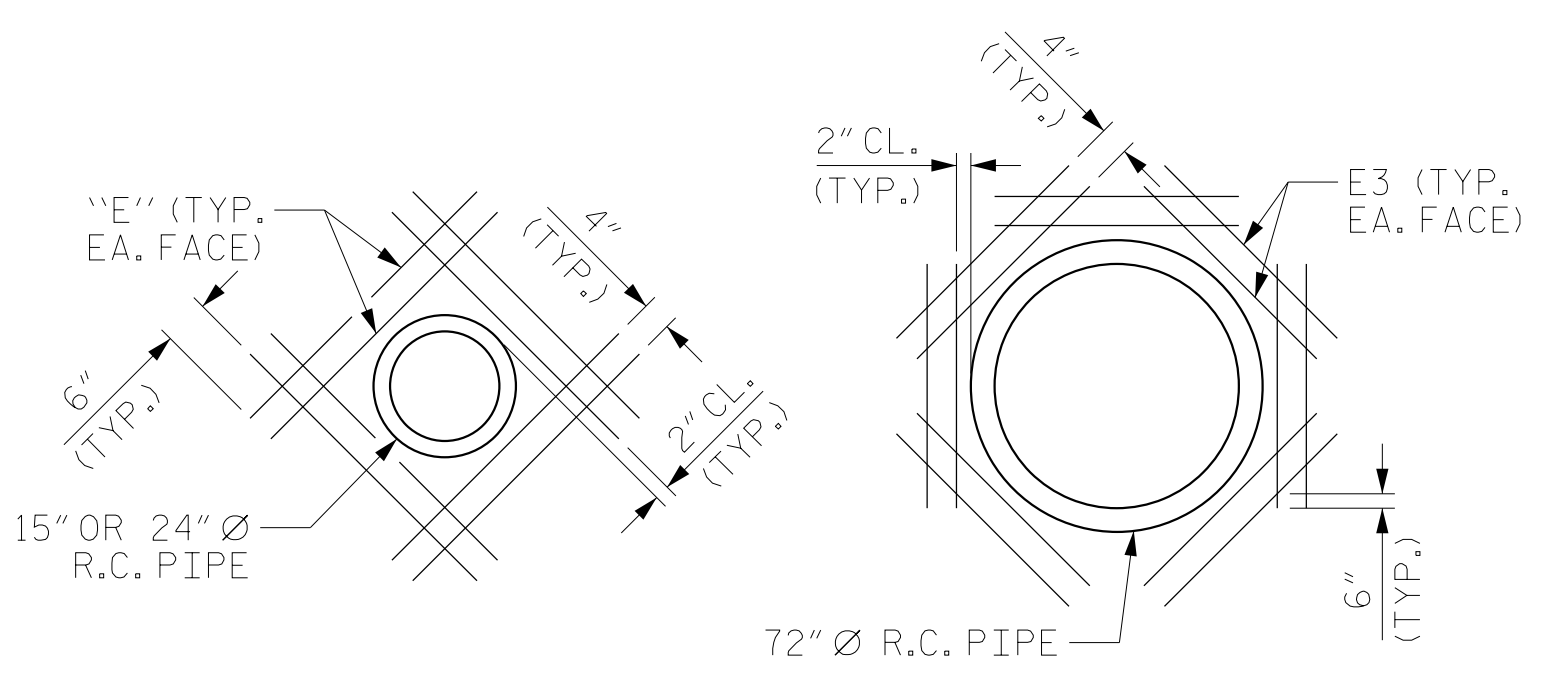
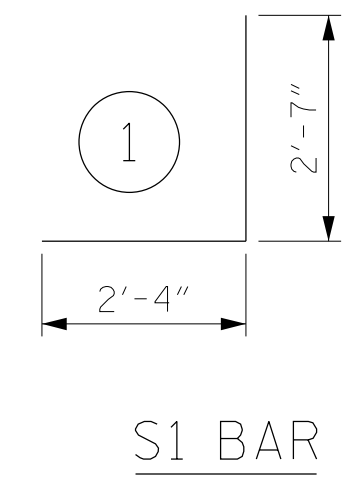
72" RCP'S NOT SHOWN FOR CLARITY.



SECTION A-A



SECTION B-B



TYPICAL DETAIL OF REINFORCING AROUND PIPE

BILL OF MATERIAL					
JUNCTION BOX 0529					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	38	#6	STR.	4'-8"	266
B1	20	#6	STR.	9'-6"	285
B2	38	#5	STR.	4'-8"	185
B3	38	#5	STR.	9'-6"	377
E1	16	#5	STR.	3'-8"	61
E2	16	#5	STR.	4'-7"	76
E3	56	#6	STR.	5'-0"	421
S1	108	#4	1	4'-11"	355
V1	54	#4	STR.	9'-4"	337
V2	54	#4	STR.	11'-4"	409
REINFORCING STEEL					2,772 LBS.
CLASS "A" CONCRETE					10.1 C.Y.

6/13/2023 X:\P\1830049021_R-5799_US 64-276 Intersection Design\Design\Roadway\Proj\Junction_Box\0529\2D-3.dgn

DRAWN BY : _____ TWL DATE : 10/2020
 CHECKED BY : _____ MAL DATE : 10/2020
 DESIGN ENGINEER OF RECORD: _____ MAL DATE : 10/2020