

BILL OF MATERIAL

FOR ONE END POST 4 REQ'D.

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
*D1	2	5	STR.	2'-5"	5
D2	4	Δ	STR.	2'-0"	16
*V1	2	4	STR.	2'-9"	4
*V2	2	4	STR.	2'-11"	4
*V3	2	4	STR.	3'-0"	4
*V4	2	4	STR.	3'-2"	4
*V5	2	4	STR.	3'-3"	4
*V6	2	4	STR.	3'-4"	5
*V7	2	4	STR.	3'-5"	5
*H1	2	4	STR.	3'-1"	4
*H2	2	4	STR.	2'-0"	3
*H3	12	4	STR.	3'-0"	24

* EPOXY COATED REINFORCING STEEL = 66 LBS.

REINFORCING STEEL (1" Ø THREADED ROD) = 16 LBS.

CLASS AA CONCRETE

CLASS AA CONCRETE = 0.71 CU. YDS.

TOTAL LIN. FT. OF CONCRETE END POST = 14.0 LIN. FT.

NOTES

ALL REINFORCING STEEL IN END POSTS SHALL BE EPOXY COATED.

WEIGHT OF 1" Ø THREADED ROD IS BASED ON THE NOMINAL DIAMETER AND WEIGHT PER LINEAR FOOT OF A #7 BAR. THE CONTRACTOR SHALL FIELD VERIFY THREAD COUNT AND TYPE PRIOR TO CONSTRUCTION.

FOR DETAILS OF STRUCTURAL CONCRETE INSERTS IN END POSTS, SEE SHEET S2-09.

THE #5 D1 BARS SHALL BE INSTALLED USING AN ADHESIVE ANCHORING SYSTEM. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SECTION 420 OF THE STANDARD SPECIFICATIONS.

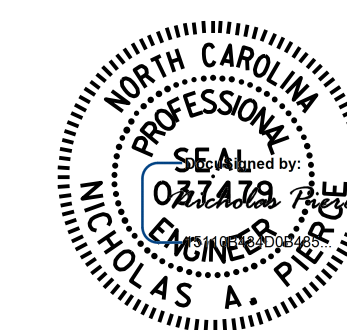
THE YIELD LOAD FOR THE #5 D1 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

NO ADDITIONAL PAYMENT SHALL BE MADE FOR THE CONCRETE END POSTS AS THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE 4 BAR METAL RAIL.

PROJECT NO. B-4863
CARTERET COUNTY
 BRIDGE NO. 150096

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

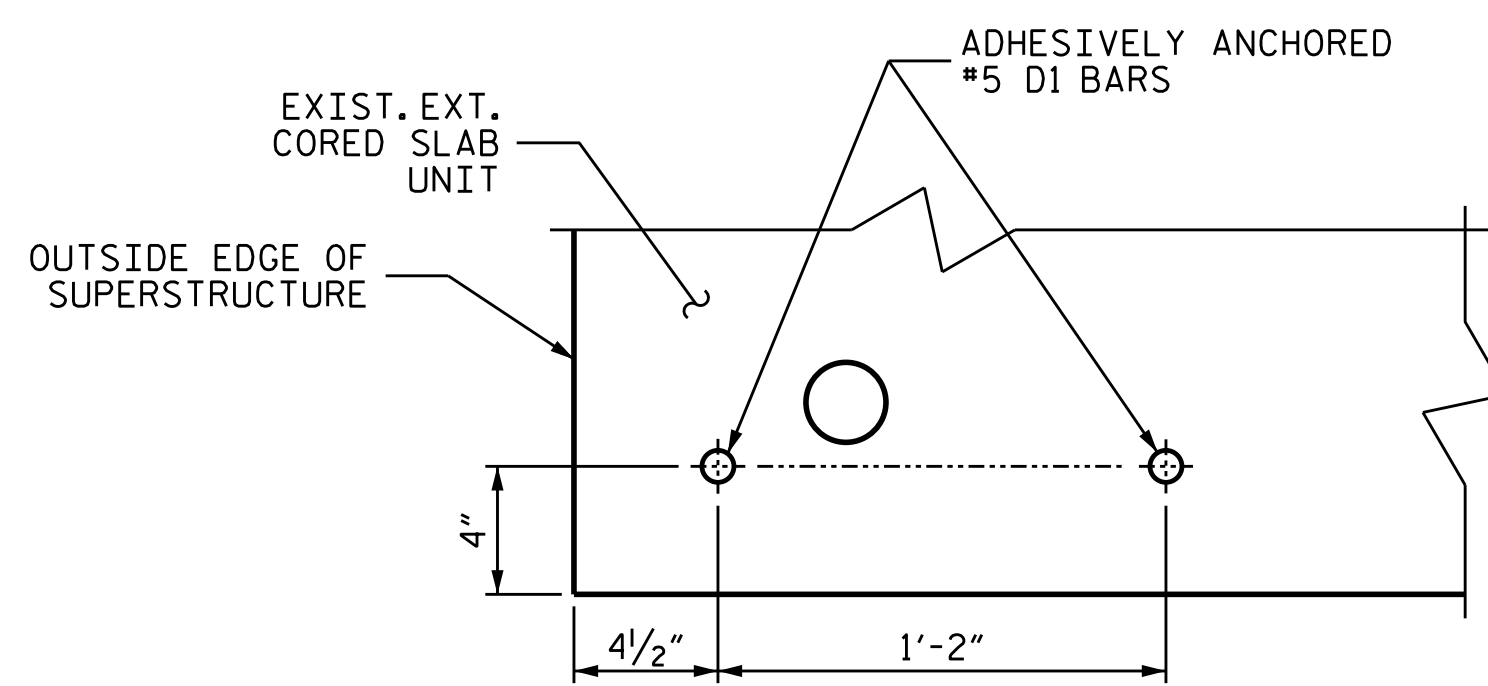
CONCRETE END POST



3/10/2020

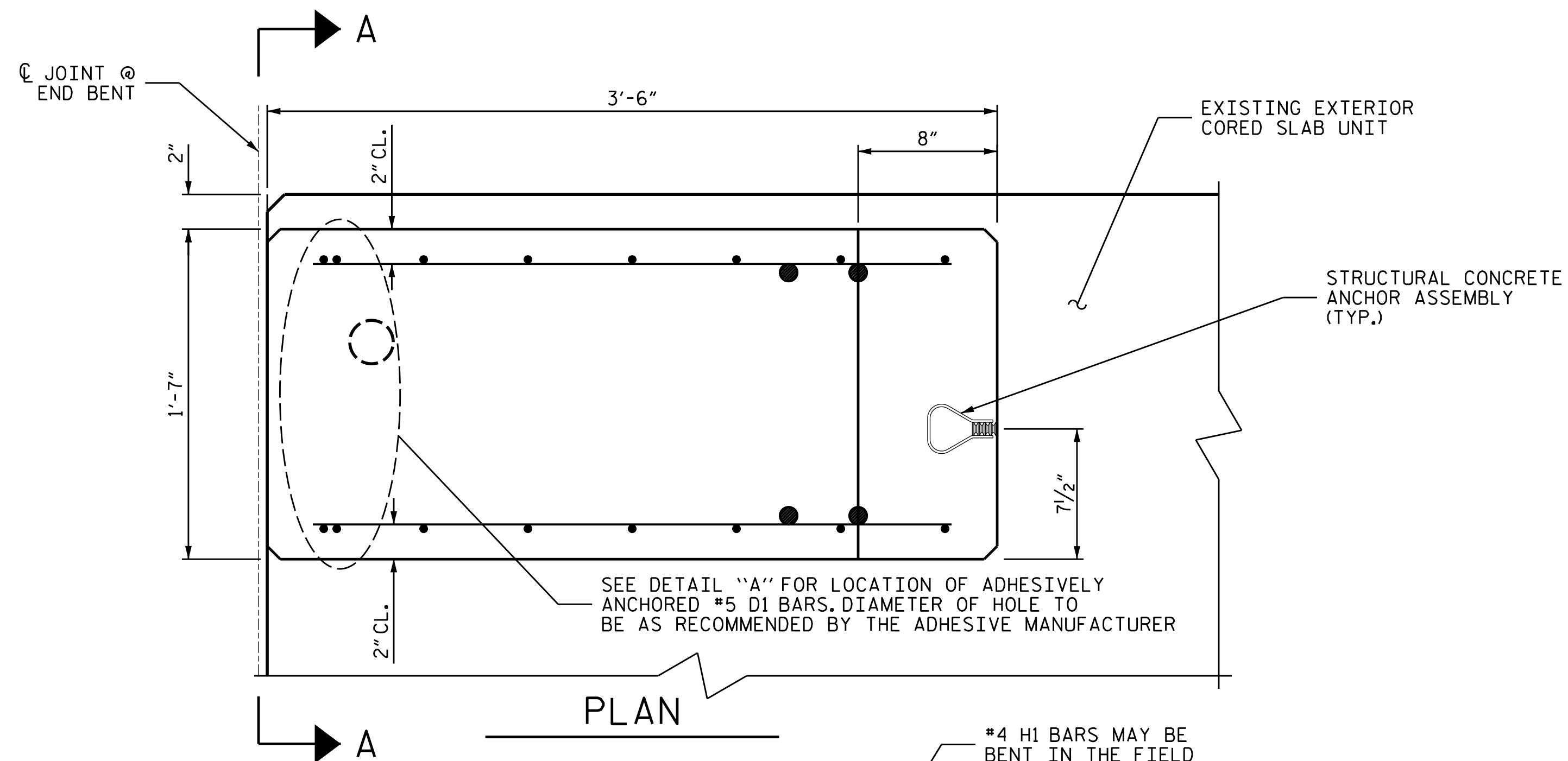
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-06
1			3			TOTAL SHEETS
2			4			9

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

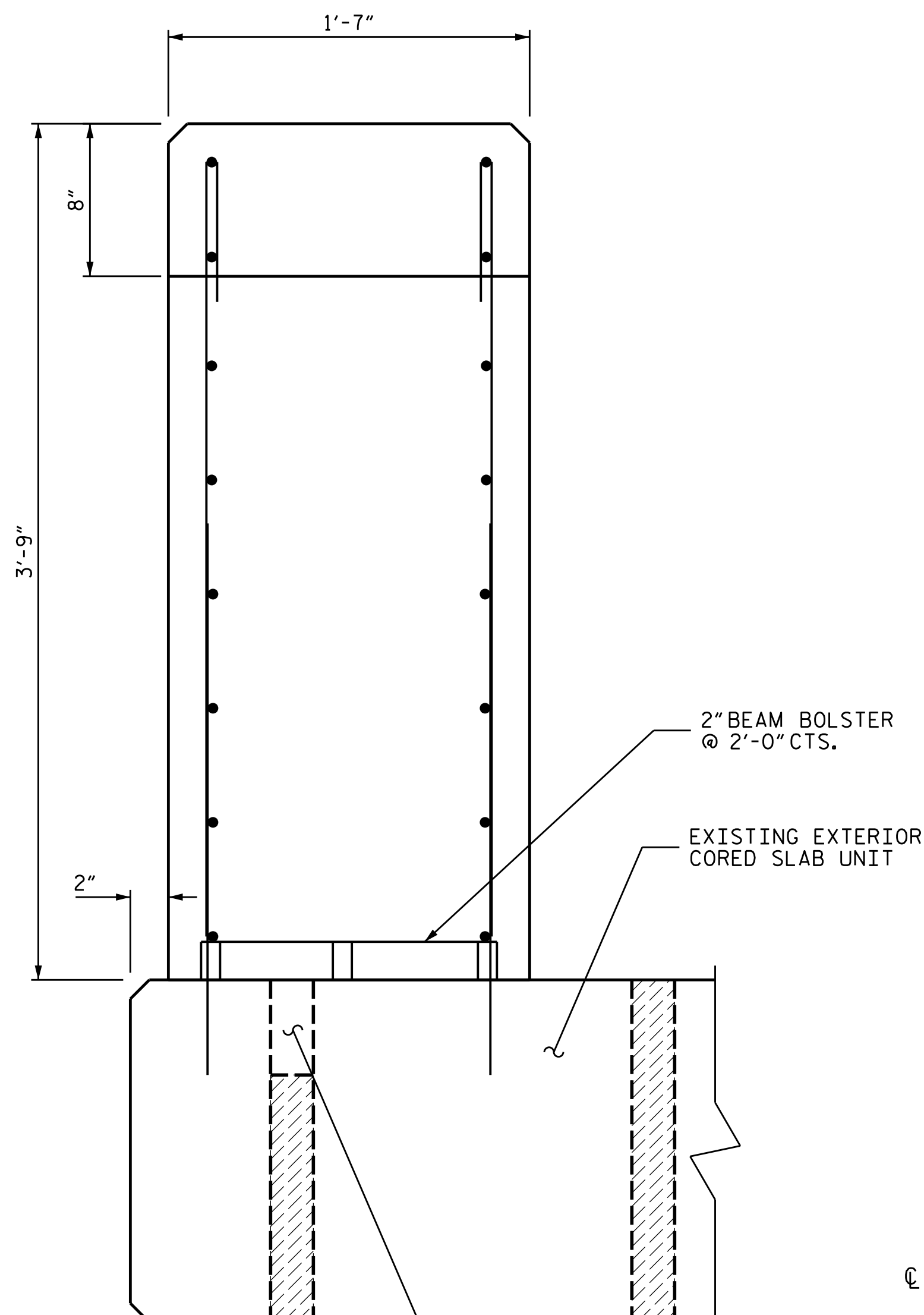


DETAIL "A"

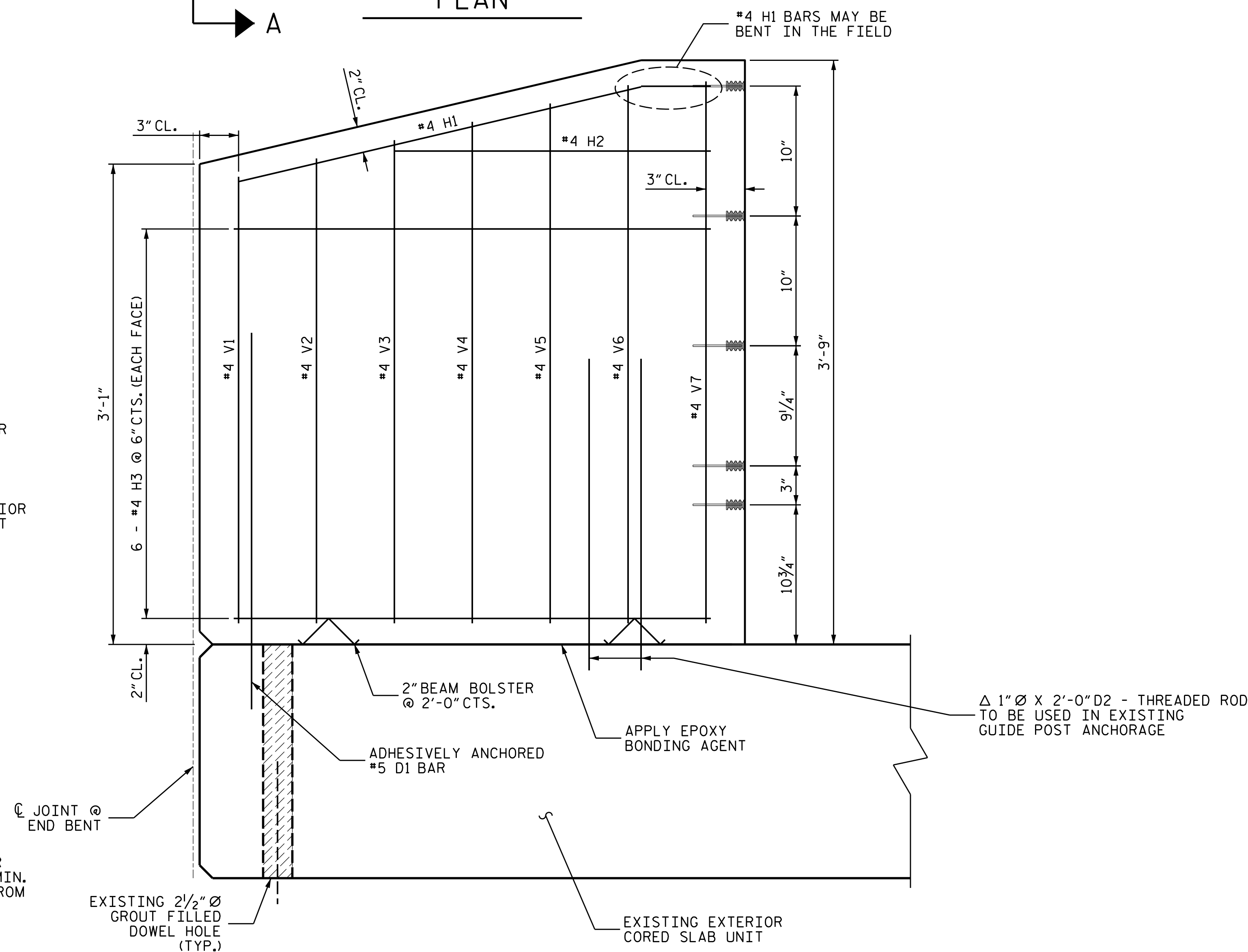
(DIAMETER OF HOLES TO BE AS RECOMMENDED BY THE ADHESIVE MANUFACTURER)



PLAN



SECTION A-A



ELEVATION

(LEFT SIDE SPAN 1 SHOWN, OTHER END SPANS SIMILAR)

DRAWN BY : R.L.PUTEK DATE : 02/2020
 CHECKED BY : M.A.ALLEN DATE : 02/2020