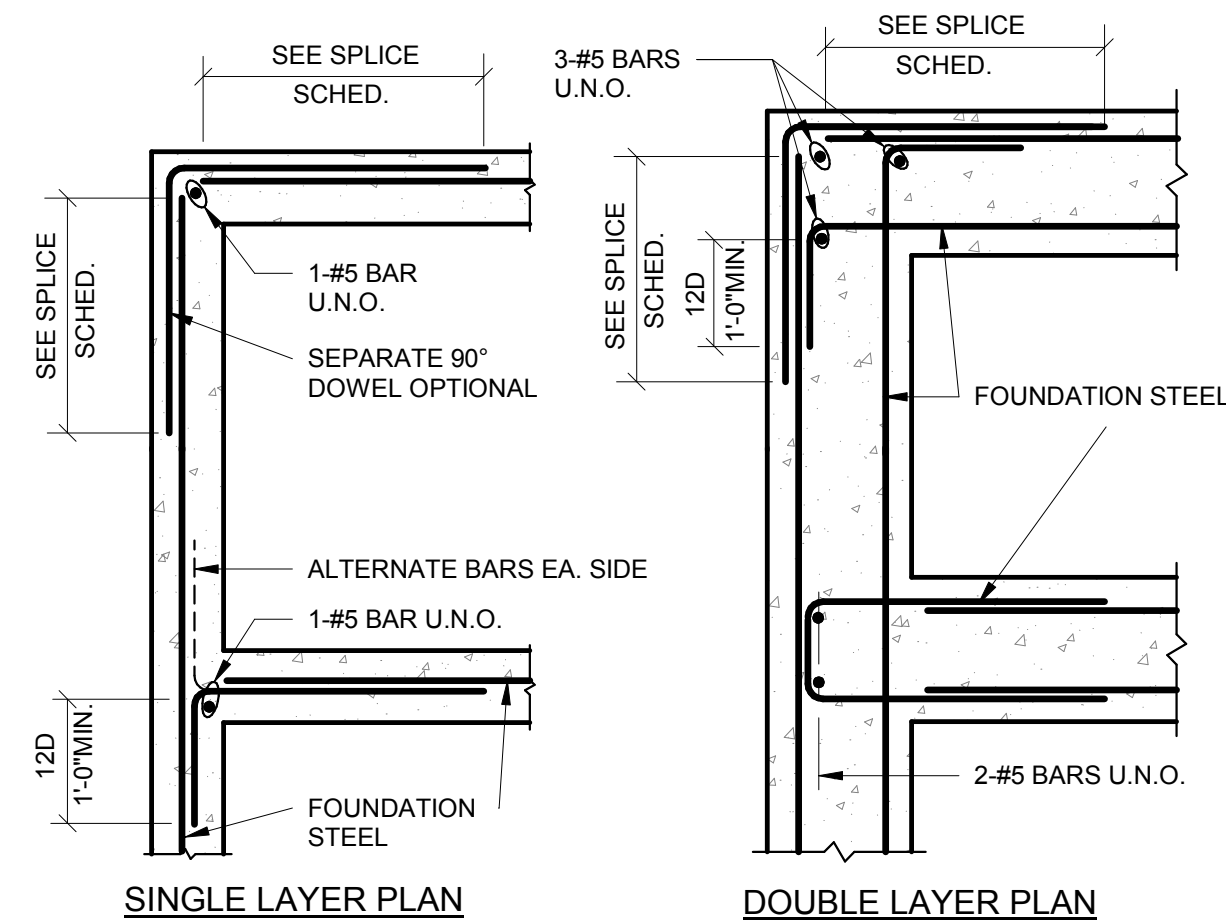


2. SEE TYPICAL LAP SPLICE SCHEDULE DETAIL FOR STANDARD HOOK DIMENSIONS.

TYPICAL REBAR STIRRUP, TIE AND HOOP BEND DETAIL



REBARS AT CORNER AND INTERSECTION

LAP SPLICE LENGTH								
BAR SIZE	f'c = 3,000 PSI				f'c = 4,000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	28	42	22	32	24	36	19	28
#4	37	56	29	43	32	48	25	37
#5	47	70	36	54	40	60	31	47
#6	56	84	43	64	48	72	37	56
#7	81	122	63	94	70	106	54	81
#8	93	139	72	107	80	121	62	93

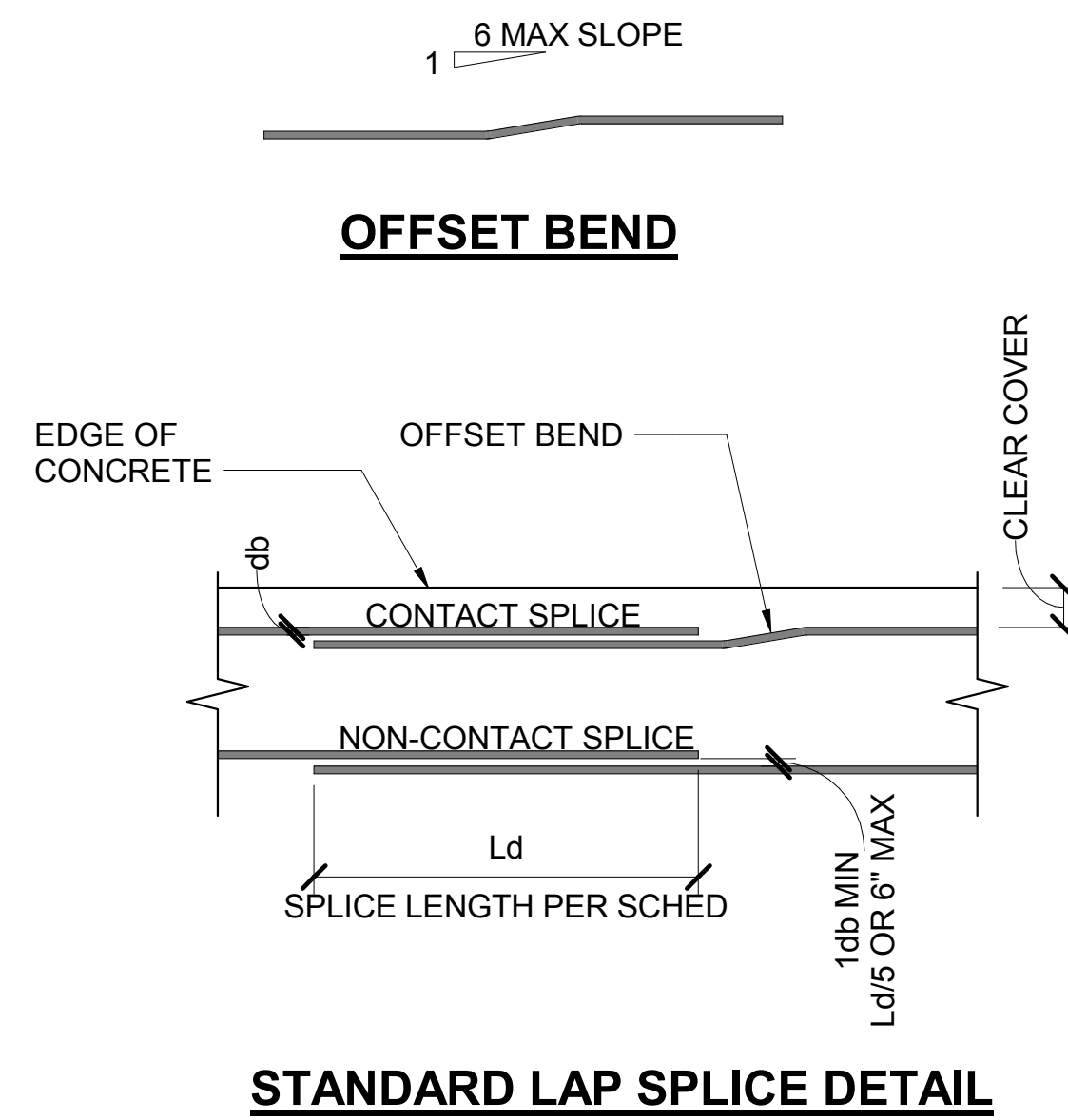
HOOK LENGTH				
BAR SIZE	f _c = 3,000 PSI		f _c = 4,000 PSI	
	STD HOOK DEVELOPMENT LENGTH L _{dh} (IN)	CONFINED HOOK LENGTH L _{dg} (IN)	STD HOOK DEVELOPMENT LENGTH L _{dh} (IN)	CONFINED HOOK LENGTH L _{dg} (IN)
#3	6	6	6	6
#4	8	6	7	6
#5	10	8	9	7
#6	12	10	10	8
#7	14	11	12	10
#8	16	13	14	11

NOTES:

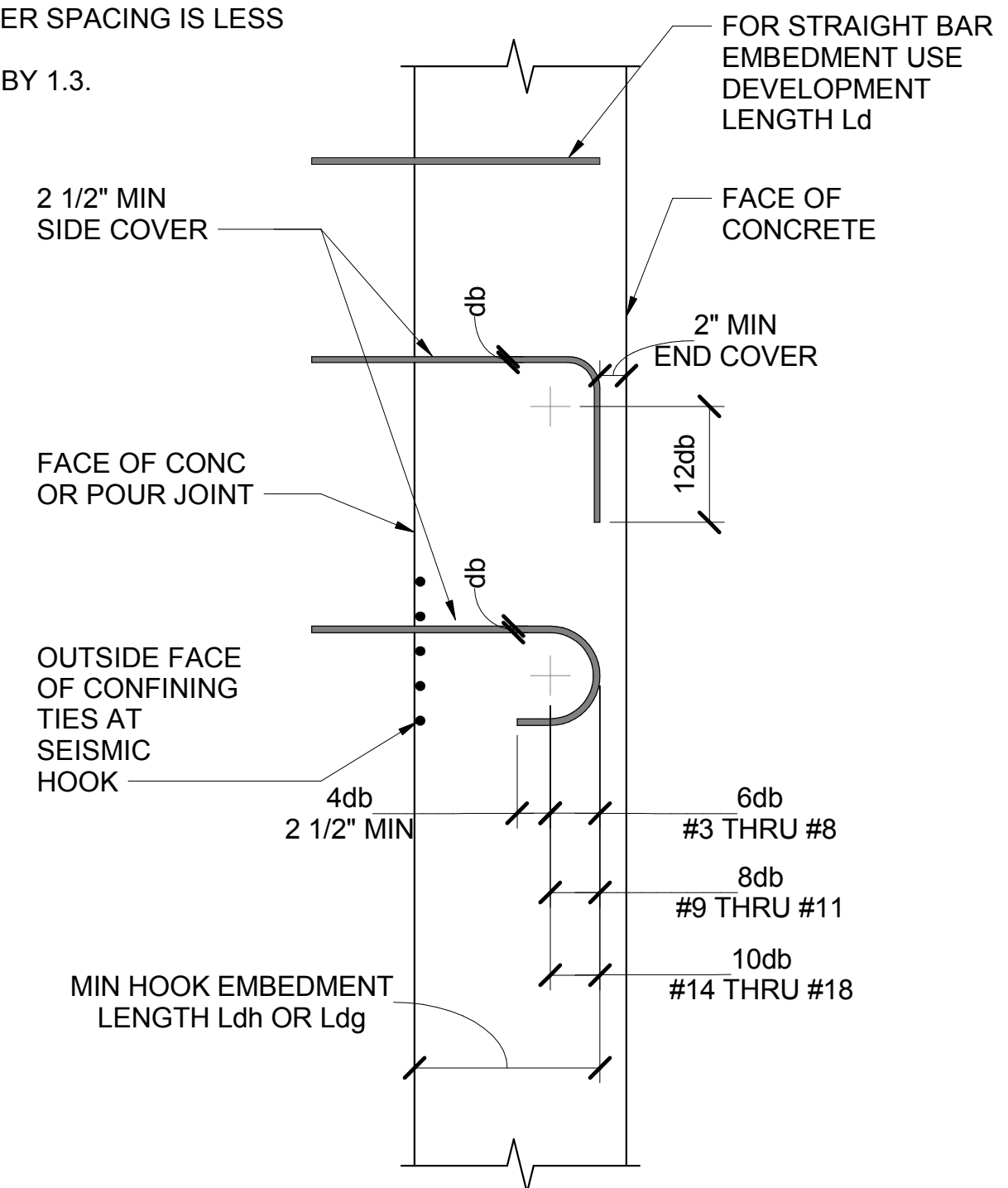
1. ALL LAP SPLICES SHALL BE CLASS B UNO. LENGTHS ARE IN INCHES.
2. VALUES ARE BASED ON GRADE 60 (FY=60 KSI) REINFORCING.
3. TOP BARS REFERS TO HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE PLACED BELOW REINFORCING BAR DURING POUR. OTHER BARS ARE CHORD BARS.
4. CHORD BARS ARE HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE PLACED BELOW REINFORCING BAR DURING POUR AND ALL VERTICAL BARS.
5. WHERE REQUIRED EMBEDMENT CANNOT BE ACHIEVED WITH STRAIGHT BARS, PROVIDE 180 OR 90 DEGREE HOOKS WITH ADEQUATE HOOKED BAR EMBEDMENT.
6. FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABULATED VALUES BY 1.33.
7. TABULATED VALUES SHALL BE MULTIPLIED BY 1.25 FOR ALL SPLICES OF CHORD BARS, VERTICAL BOUNDARY REINFORCING SPLICES, AND DRAG BAR EMBEDMENT OR SPLICE.
8. SEE BUILDING CODE AND LATEST VERSION OF ACI FOR ALL REQUIREMENTS NOT NOTED.
9. FOR EPOXY COATED REINFORCEMENT, SEE CURRENT BUILDING CODE FOR ADJUSTMENT FACTORS.
10. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF THE DEVELOPMENT LENGTH L_d OF THE LARGER BAR AND THE TENSION LAP SPLICE LENGTH OF THE SMALLER BAR.
11. HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE TO THE OPPOSITE FACE WITH A MINIMUM 2" END COVER AND EMBEDMENT NOT LESS THAN THE SCHEDULE.
12. CASE #1 AND #2 ARE DEFINED AS FOLLOWS:

CASE #1 = CONCRETE COVER IS AT LEAST 1.0db AND CENTER-TO-CENTER SPACING IS AT LEAST 2.0db
CASE #2 = CONCRETE COVER IS LESS THAN 1.0db OR CENTER-TO-CENTER SPACING IS LESS THAN 2.0db

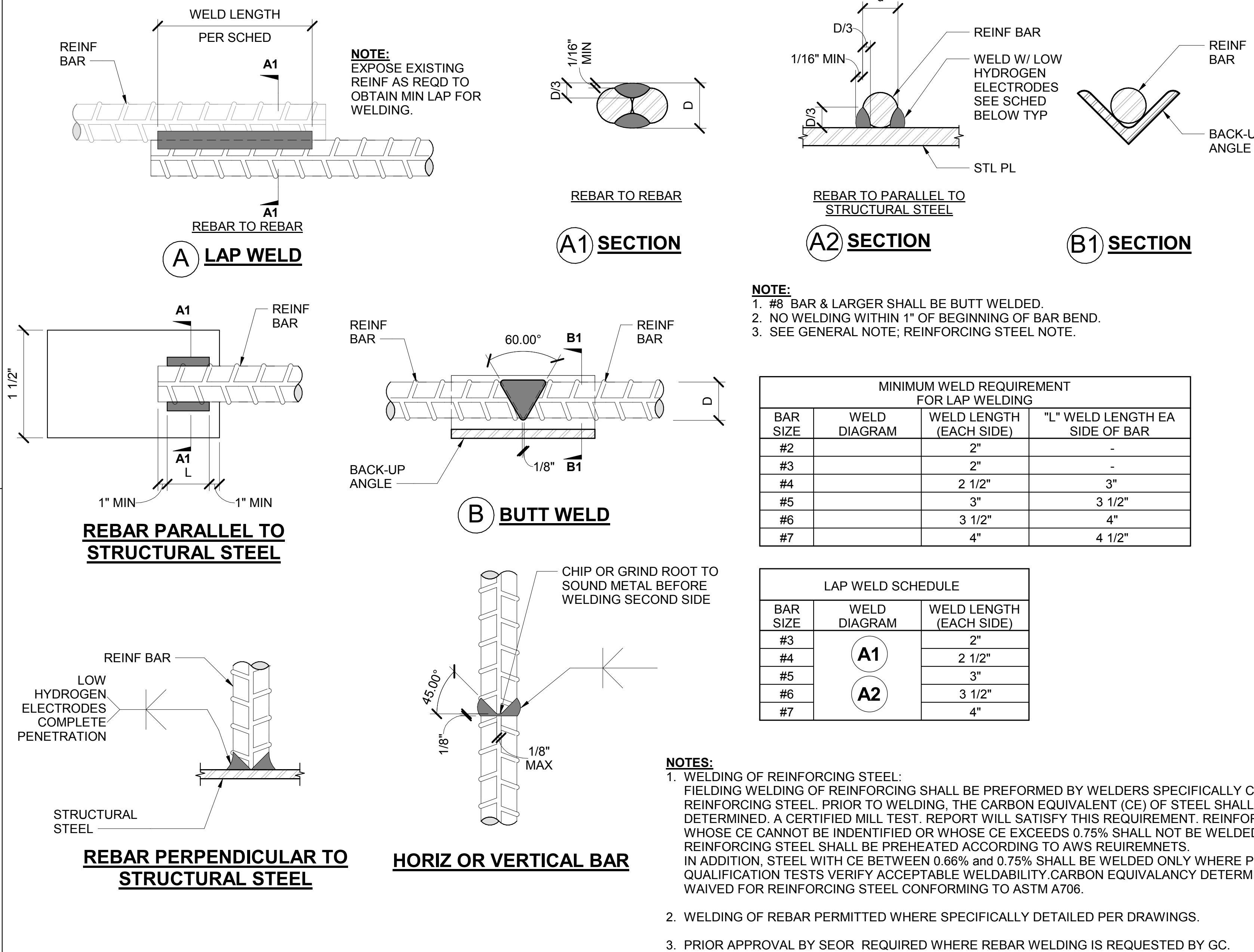
12. FOR CLASS A STRAIGHT DEVELOPMENT LENGTHS, L_d , DIVIDE SPLICE LENGTHS BY 1.3.



EMBEDMENT LENGTH DETAIL



TYPICAL LAP SPLICE AND HOOK LENGTH SCHEDULE



TYPICAL WELDED REINFORCING BARS

REVISIONS

BRANDOW & JOHNSTON
STRUCTURAL & CIVIL ENGINEERS
 7700 S FLOWER ST #1800, LOS ANGELES, CA 90017
 TEL: (213) 596-4500 FAX: (213) 596-4599
 JOB #:S19-0231



**LA MIRADA HIGH SCHOOL NEW
FOOTBALL STADIUM PROJECT**

SA # 03-120551

NAC
ARCHITECTURE

CNO. 161-19015
TE 12/10/2020

SA BACKCHECK
SUBMISSION

TYPICAL CONCRETE DETAILS

S1.01