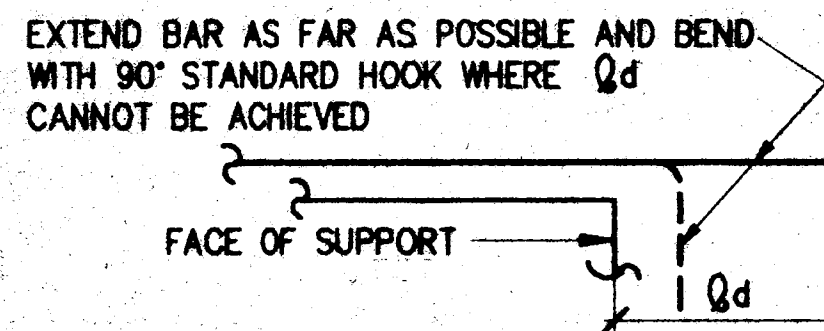
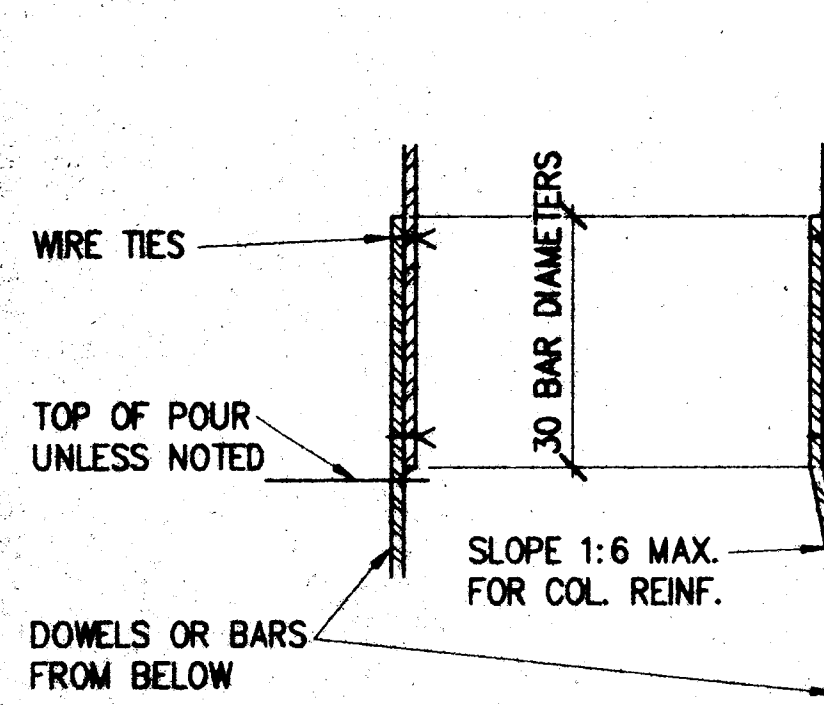


TENSION DEVELOPMENT LENGTHS, Q_d (IN INCHES)
FOR GRADE 60 UNCOATED BARS
 $f_c = 3000$ PSI; NORMAL WEIGHT CONCRETE

BAR SIZE	TOP BARS						OTHER BARS					
	1	2	3	4	5	6	1	2	3	4	5	6
#3	16	16	16	16	16	16	13	13	13	13	13	13
#4	23	22	22	22	22	22	18	17	17	17	17	17
#5	36	29	27	27	27	27	27	22	21	21	21	21
#6	50	40	35	32	32	32	39	31	27	25	25	25
#7	69	55	48	39	38	38	53	42	37	30	29	29
#8	90	72	63	51	45	43	70	56	49	39	35	33
#9	114	91	80	64	57	48	88	70	62	49	44	37
#10	145	116	102	81	73	58	112	89	78	63	56	45
#11	178	142	125	100	89	71	137	110	96	77	69	55
#14	242	242	170	170	121	121	187	187	131	131	93	93
#18	356	356	250	250	178	178	274	274	192	192	137	137

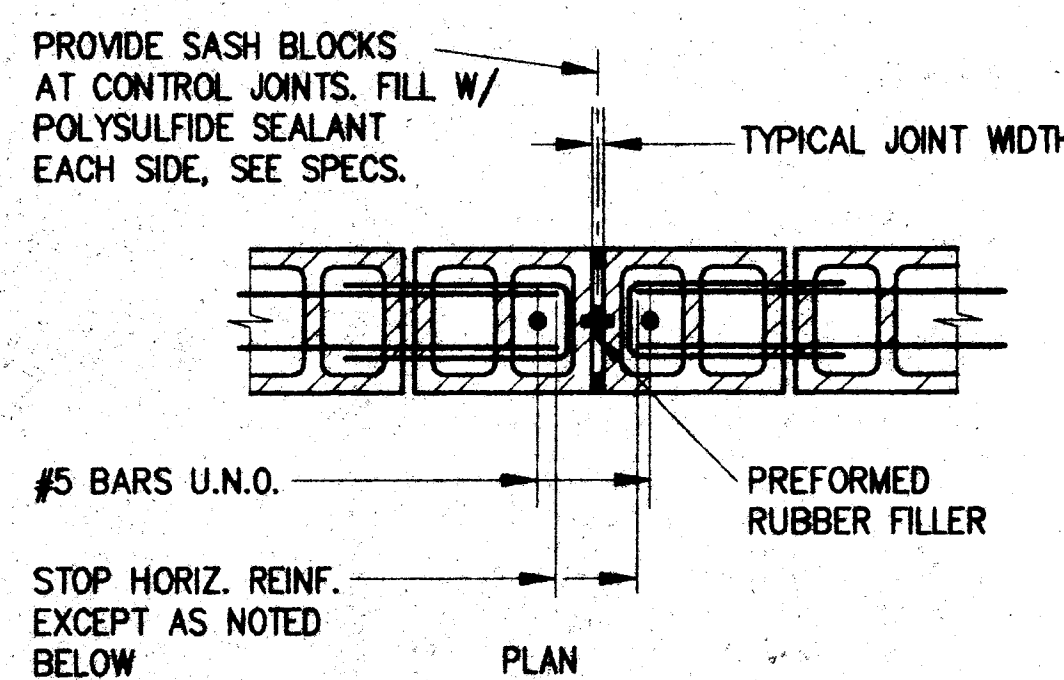


BAR DEVELOPMENT LENGTH



- NOTES:
- WHERE COMPRESSION IS NOTED ON THE DRAWINGS, VERTICAL REINFORCING STEEL SHALL BE SPLICED AS SHOWN; OTHERWISE, USE TENSION LAP-SPLICES.
 - SPECIFIC DATA ON THE DRAWINGS SHALL GOVERN IN CASES OF CONFLICT.

VERTICAL REINFORCING COMPRESSION LAP SPICE

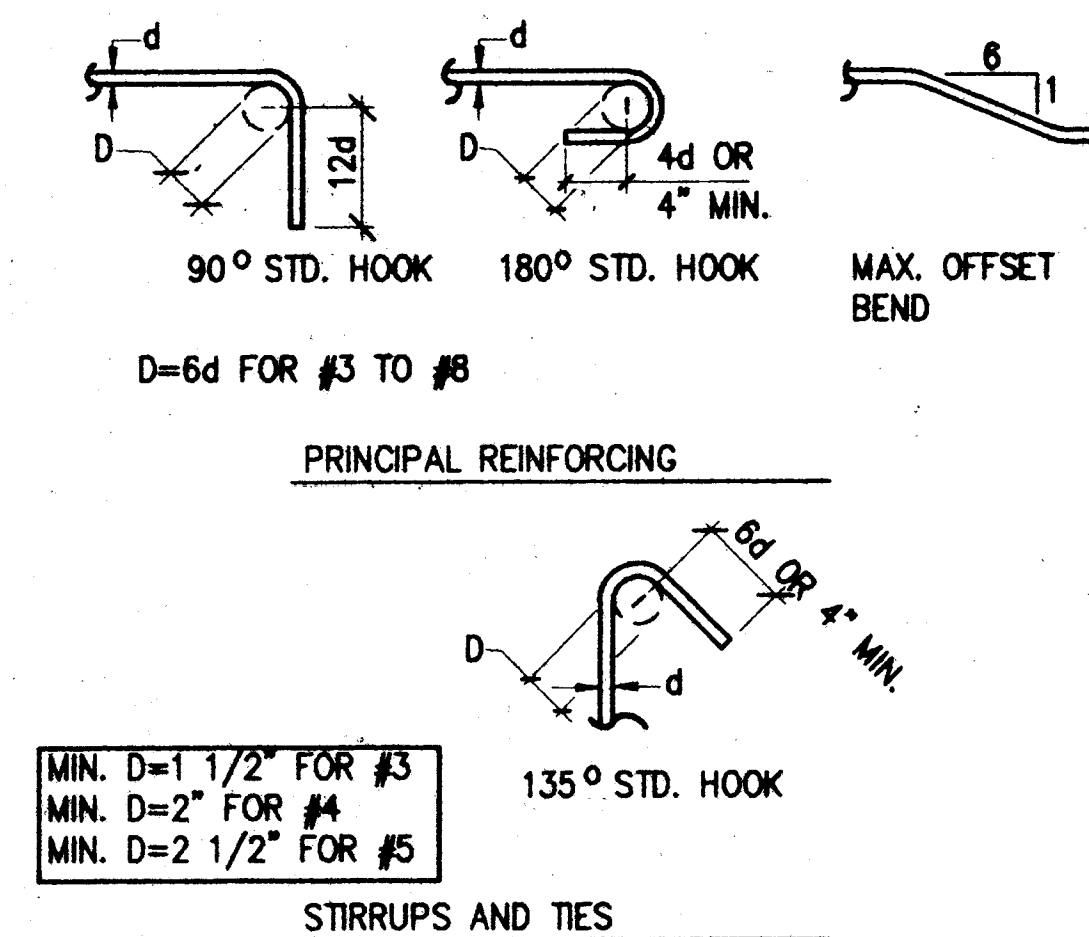


- NOTES:
- CONTRACTOR SHALL OBTAIN ARCHITECT'S APPROVAL OF JOINT LOCATIONS, WHICH SHALL NOT EXCEED 24'-0" O.C.
 - HORIZONTAL REINF. AT FLOOR AND ROOF LINES SHALL BE CONTINUOUS THRU JOINT.
 - CONCRETE BLOCK SHOWN - BRICK SIMILAR.
 - SAWCUT BLOCK OR BRICK AS REQ'D.

CMU WALL CONTROL JOINT

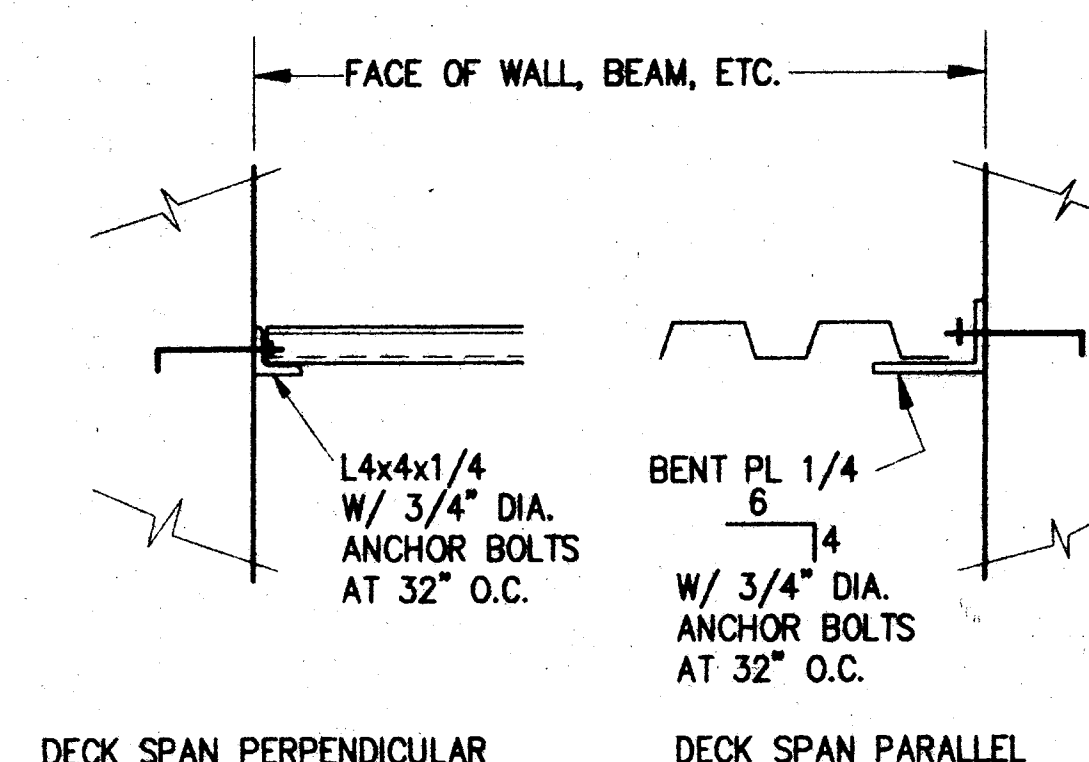
NOTES:

- THIS TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE 1.3 Q_d .
- TOP BARS ARE HORIZONTAL BARS WITH 12" OR MORE OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.
- FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE 0.75 Q_d OR 12" MIN.
- DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE 1.2 Q_d FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33 Q_d FOR A 4-BAR BUNDLE.
- COMPRESSION DEVELOPMENT LENGTH (ONLY WHERE INDICATED ON DRAWINGS) FOR GRADE 60 BARS USE 22 BAR DIAMETERS.
- CATEGORY SELECTION
 - FOR FOUNDATION REINFORCEMENT USE CATEGORY 5 U.N.O.
 - FOR COLUMN REINFORCEMENT AND DOWELS USE CATEGORY 3 U.N.O.
 - FOR BEAM REINFORCEMENT USE CATEGORY 3 U.N.O.
 - FOR STRUCTURAL SLAB REINFORCEMENT USE CATEGORY 3 U.N.O.
 - FOR SLAB ON GRADE REINFORCEMENT USE CATEGORY 6 U.N.O.
 - FOR WALL REINFORCEMENT AND DOWELS USE CATEGORY 3 (EXCEPT AS NOTED BELOW) U.N.O.
 - FOR WALLS WITH A SINGLE MAT OF STEEL CENTERED IN THE WALL, USE CATEGORY 5 FOR WALL REINFORCEMENT AND DOWELS U.N.O.
 - FOR CHORD STEEL REINFORCEMENT USE CATEGORY 1 U.N.O.



- NOTES:
- ALL BENDS SHALL BE MADE COLD.
 - #14 AND #18 BARS SHALL BE BEND TESTED AND LAB APPROVED PRIOR TO BENDING.

BAR BENDS



- NOTES:
- SEE PLAN FOR LEDGER SIZES AND ANCHORS. UNLESS NOTED OTHERWISE USE THIS DETAIL.
 - ALL DECK EDGES SHALL BE SUPPORTED.

LEDGER ANGLES

$f_c = 3000$ PSI; NORMAL WEIGHT CONCRETE

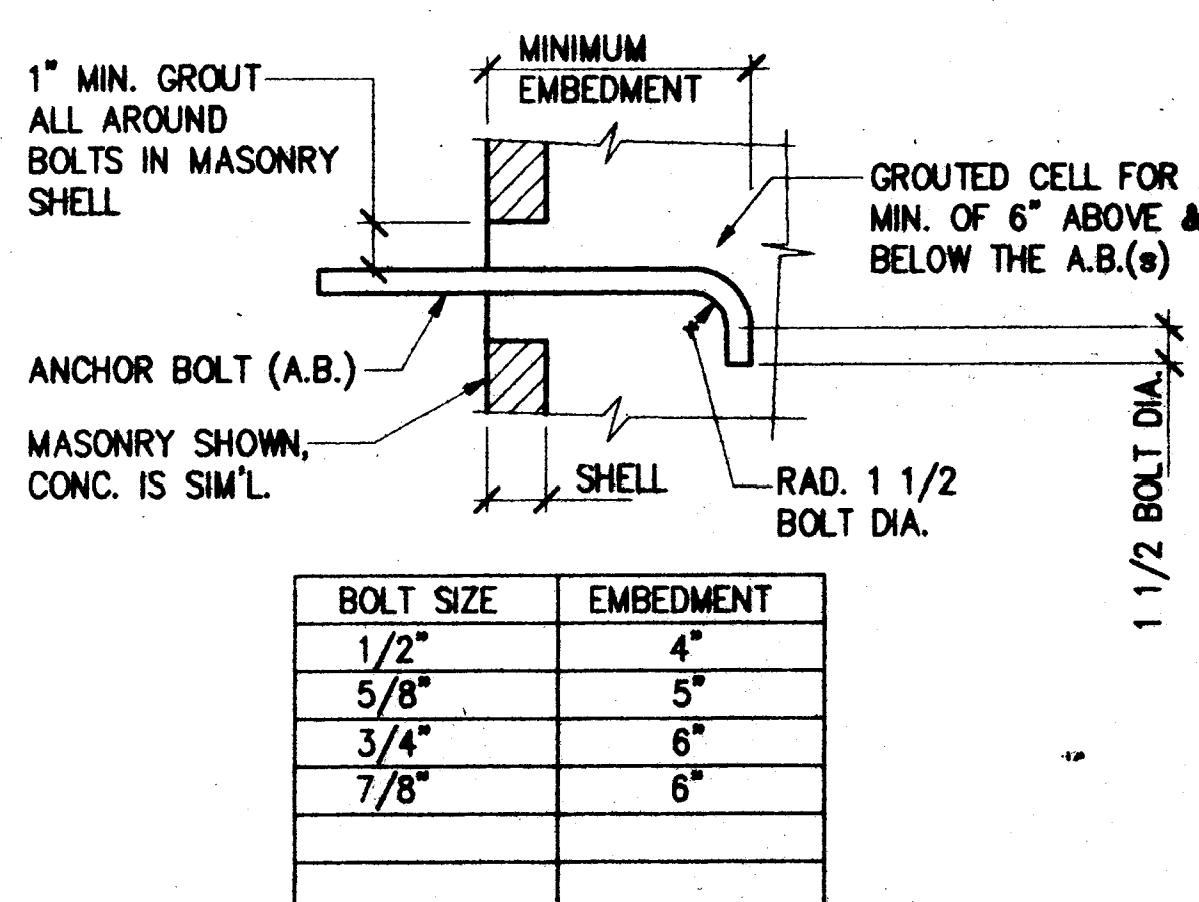
BAR SIZE	LAP CLASS	TOP BARS						OTHER BARS					
		1	2	3	4	5	6	1	2	3	4	5	6
#3	A	16	16	16	16	16	16	13	13	13	13	13	13
#4	A	23	22	22	22	22	22	18	17	17	17	17	17
#5	A	36	29	27	27	27	27	27	22	21	21	21	21
#6	A	50	40	35	32	32	32	39	31	27	25	25	25
#7	A	69	55	48	39	38	38	53	42	37	30	29	29
#8	A	90	72	63	51	45	43	70	56	49	39	35	33
#9	A	114	91	80	64	57	48	88	70	62	49	44	37
#10	A	145	116	102	81	73	58	112	89	78	63	56	45
#11	A	178	142	125	100	89	71	137	110	96	77	69	55
#14	A	242	242	170	170	121	121	187	187	131	131	93	93
#18	A	356	356	250	250	178	178	274	274	192	192	137	137

NOTES:

- TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE & GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE 1.3 Q_d .
- CLASS A - HALF OR LESS OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH.
- CLASS B - MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH.
- TOP BARS ARE HORIZONTAL BARS WITH 12" OR MORE OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.
- FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE 0.75 Q_d OR 12" MIN.
- LAP SPLICES OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE 1.2 Q_d FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33 Q_d FOR A 4-BAR BUNDLE. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED AT THE SAME LOCATION. SPLICES FOR INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE STAGGERED SUCH THAT THEY DO NOT OVERLAP.
- Q_d - BASIC LAP LENGTH, SHOWN AT LEFT.

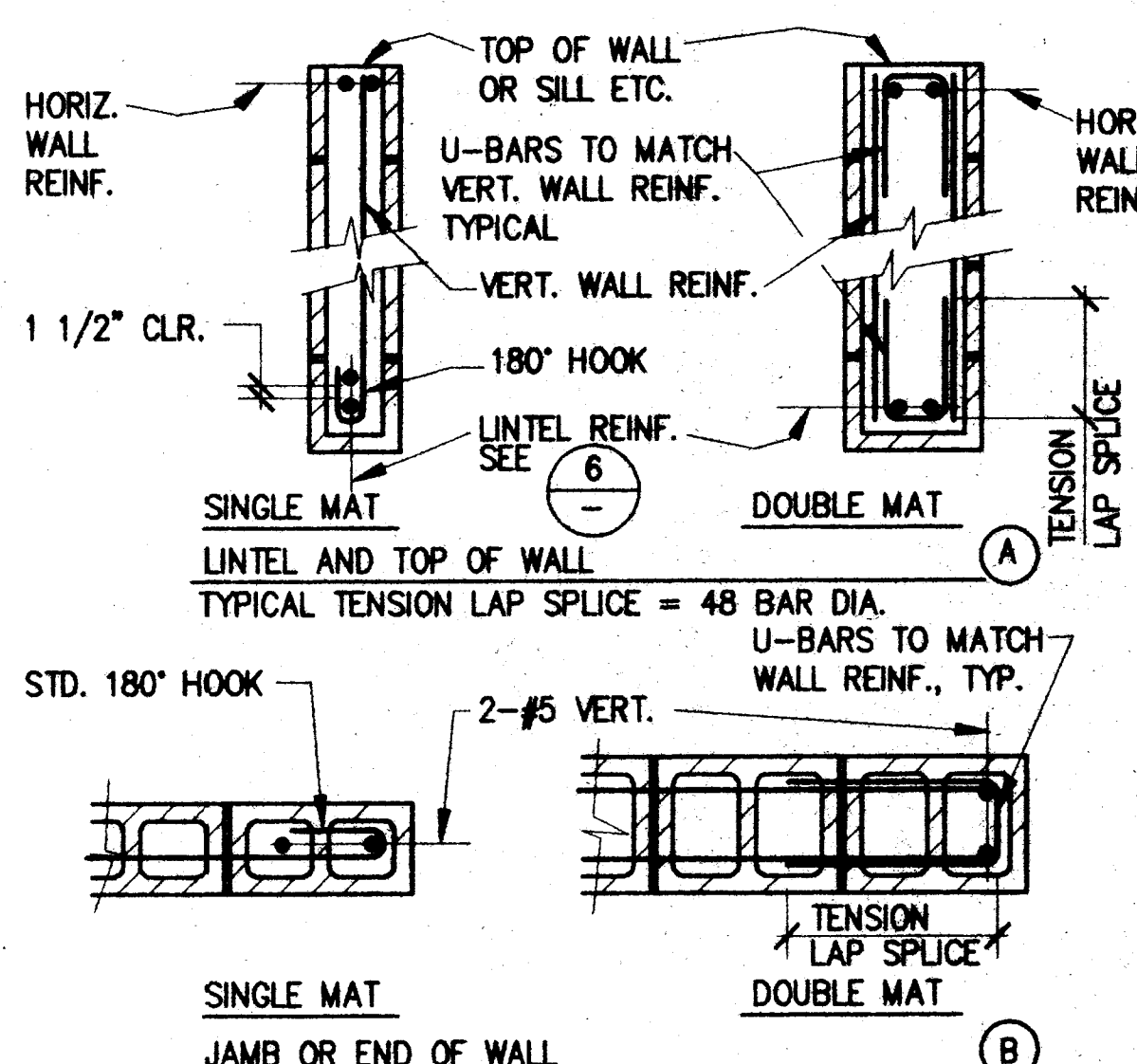
TENSION LAP SPICE LENGTH

TENSION LAP SPICE LENGTHS, Q_d (IN INCHES) FOR GRADE 60 UNCOATED BARS

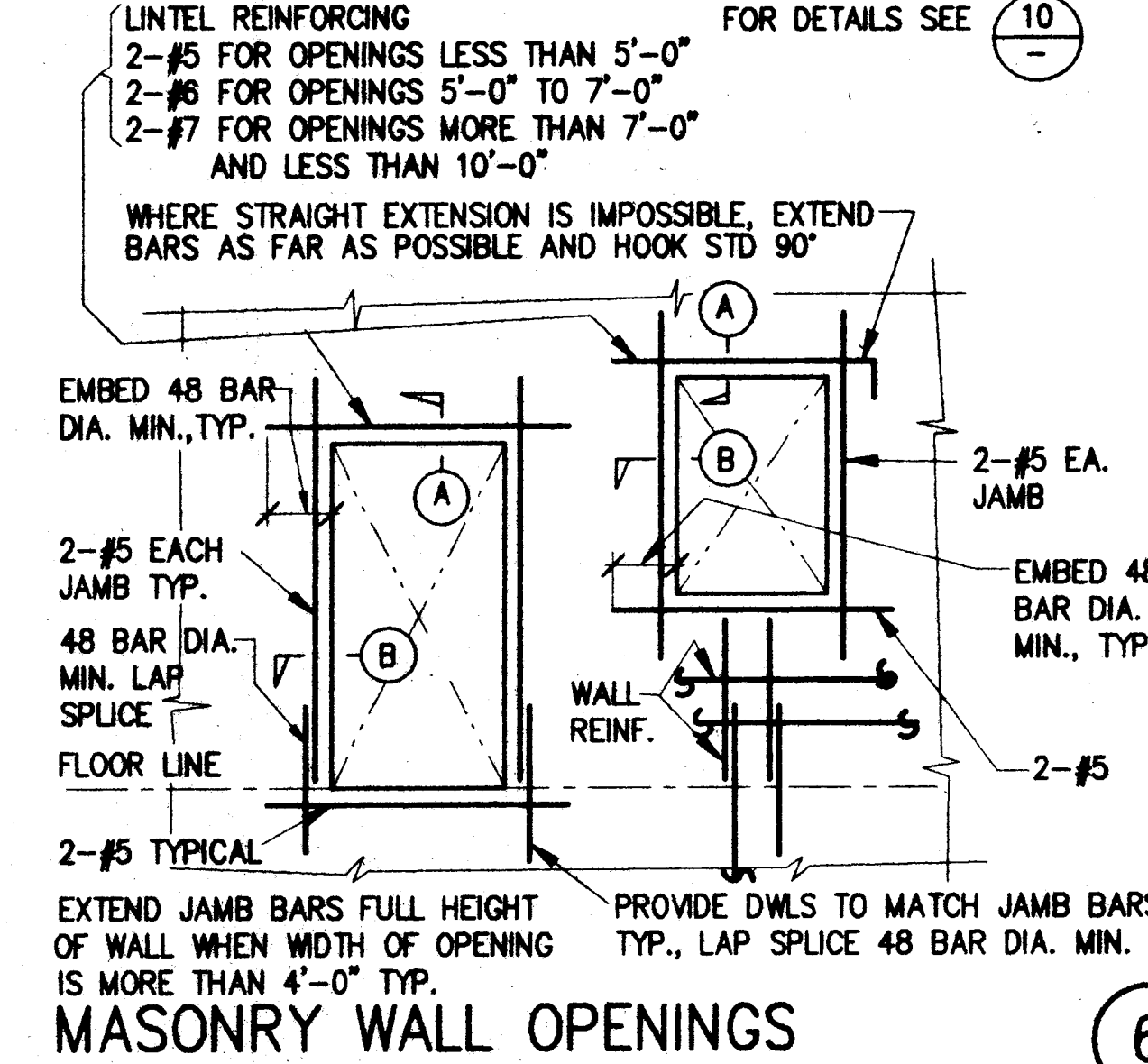


- NOTES:
- MINIMUM BOLT SPACING SHALL BE 12 BOLT DIAMETERS, WITH A MINIMUM EDGE DISTANCE OF 6 BOLT DIAMETERS.

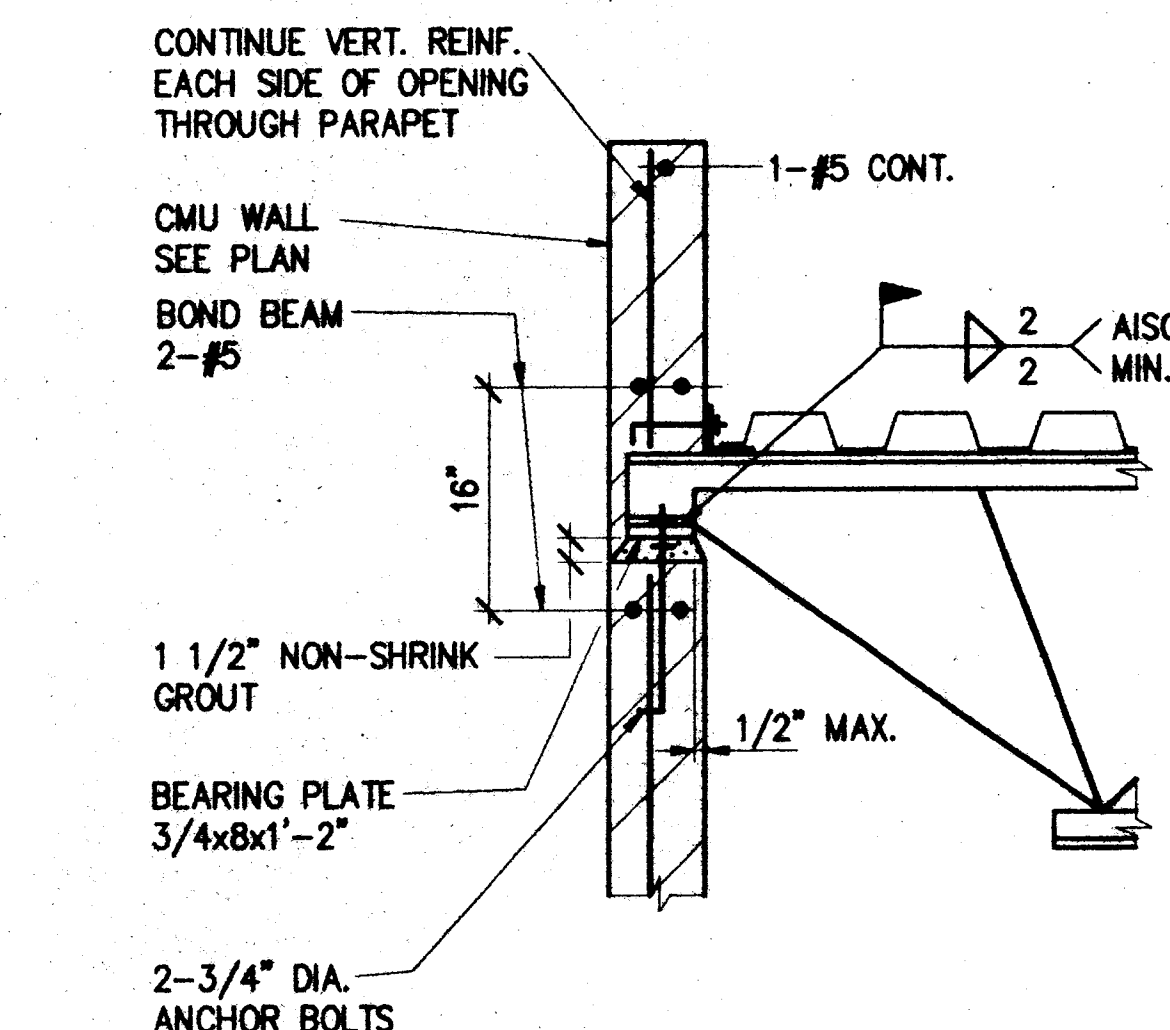
ANCHOR BOLT EMBEDMENT



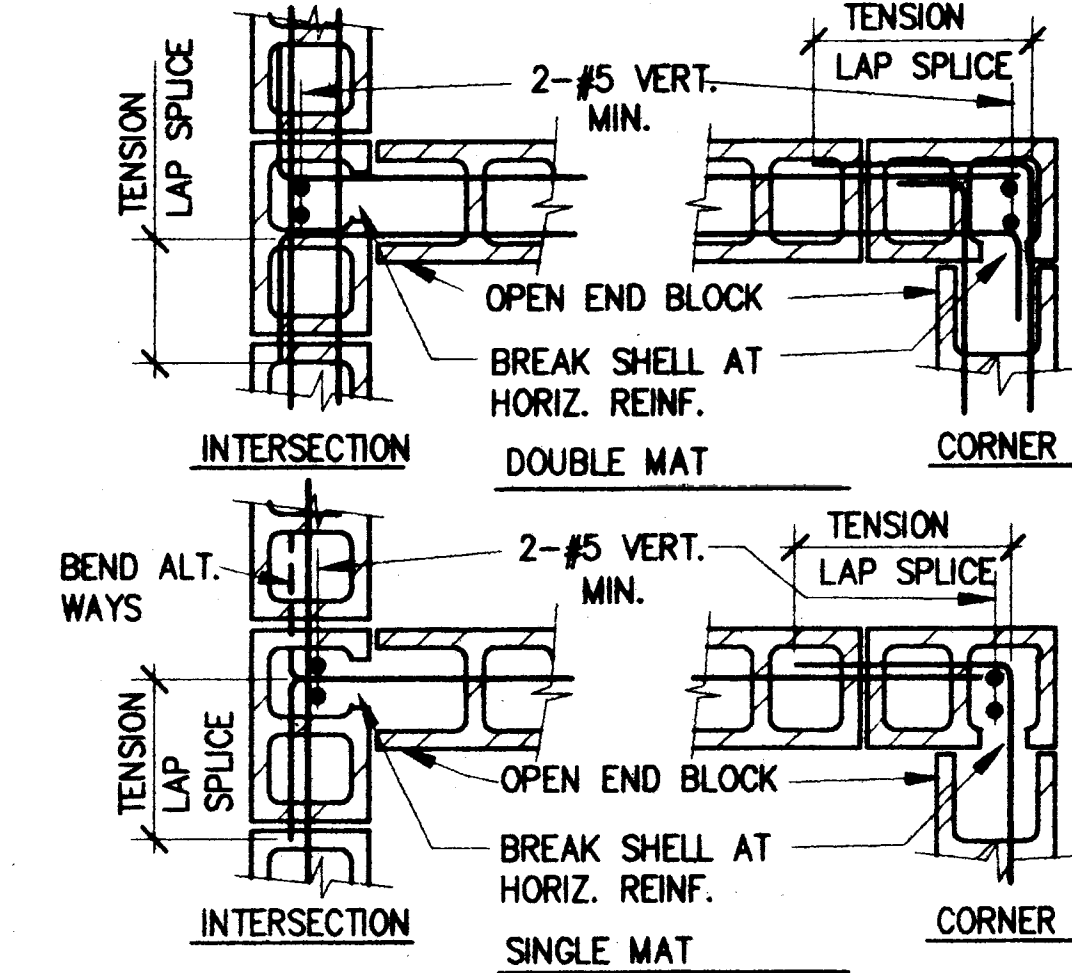
WALL OPENINGS DETAILS



MASONRY WALL OPENINGS

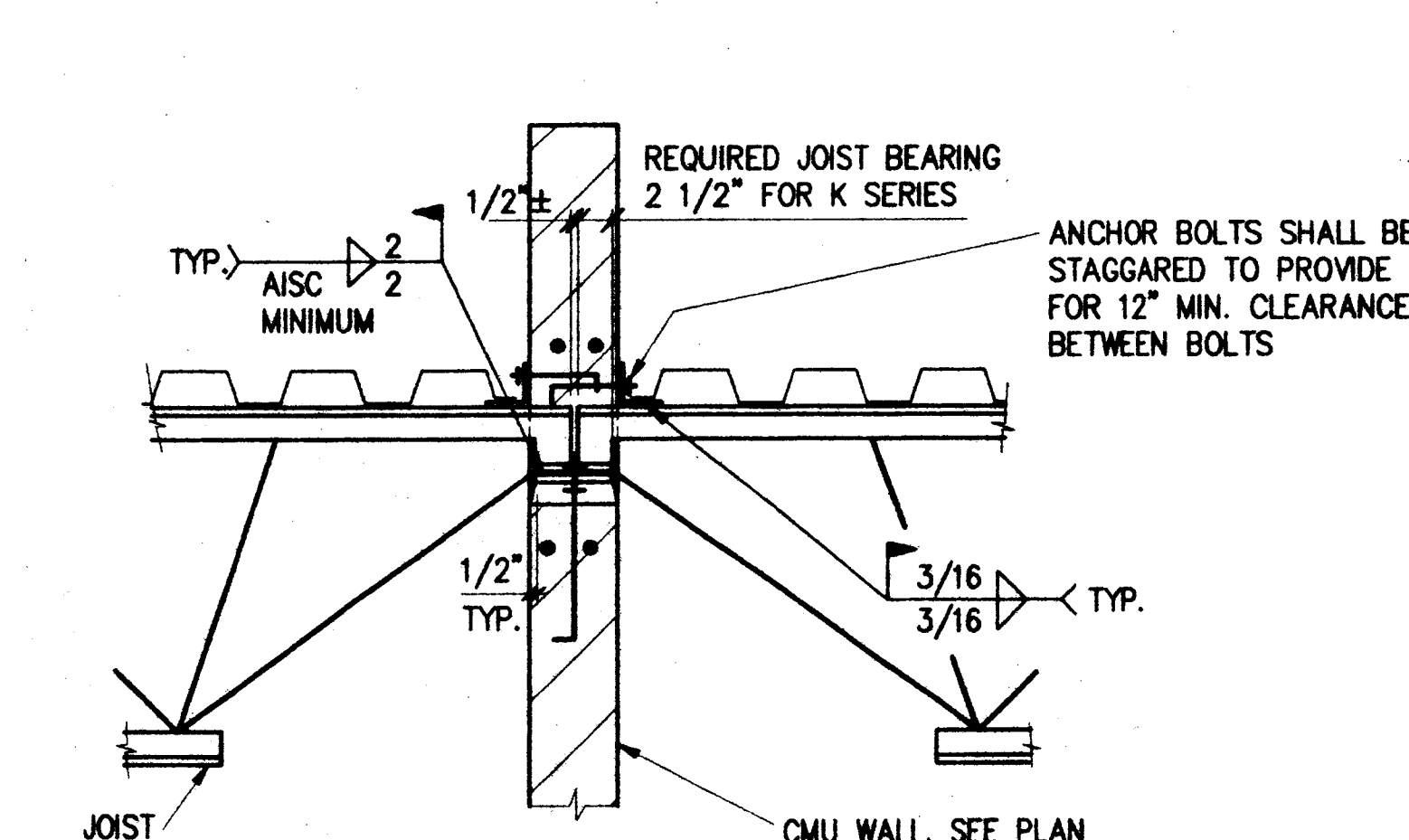


JOIST BEARING PERPENDICULAR TO WALL



NOTE: TENSION LAP SPICE=48 BAR DIA.

CMU WALL INTERSECTIONS



NOTE: FOR BALANCE OF INFORMATION NOT NOTED, SEE DET. 11

JOIST BEARING

SYMBOL	DESCRIPTION	DATE	BY

MARTIN & PELTYN, INC.
STRUCTURAL ENGINEERS
1909 SOUTH JONES BLVD.
SUITE A
LAS VEGAS, NV 89102
PHONE (702) 248-7000
FAX (702) 253-5353
JOB NO. 3808

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SEAL

Domingo Cambeiro Corporation
ARCHITECTURE • ENGINEERING • PLANNING • INTERIORS
3555 PECOS-McLEOD IC. LAS VEGAS, NEVADA 89121-3805 (702) 732-0084 FAX 732-9802

REV	DESCRIPTION	DATE	BY

PROJECT	DRAWING NO.
DETENTION FACILITY STORAGE BUILDING	S5.02
DATE	4-3-97
JOB NO. 95260	FILE NO.
SECTIONS	



BAR DEVELOPMENT LENGTH

[illegible]

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1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

[illegible]

1. The first step is to identify the problem. This involves understanding the symptoms and the context in which they are occurring.

① TENSION LAP SPICE LENGTH



VERTICAL REINFORCING
COMPRESSION LAP SPLICE



REPOST **BAR BENDS**



ANCHOR BOLT DETAIL



MASONRY WALL OPENINGS



CMU WALL INTERSECTIONS



DATE: 10/10/78
TIME: 10:00 AM
BY: J. J. JONES
SUBJECT: J. J. JONES



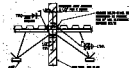
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WALL OPENINGS DETAILS



JUST BEARING
PERPENDICULAR TO WALL



JOIST BEARING



Dominique Cantelero Corporation

[illegible]

DETENTION FACILITY
STORAGE BUILDING

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