

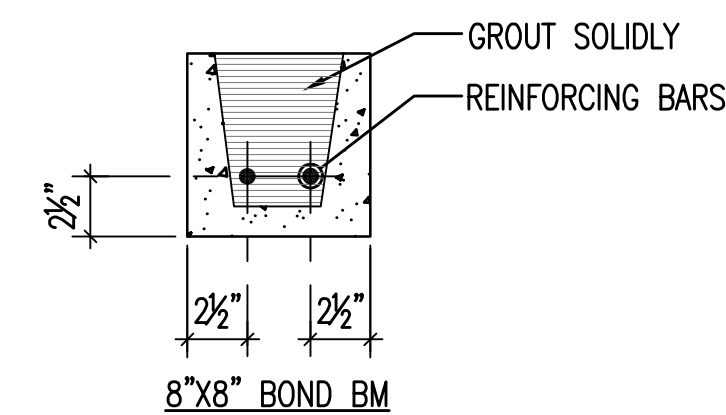
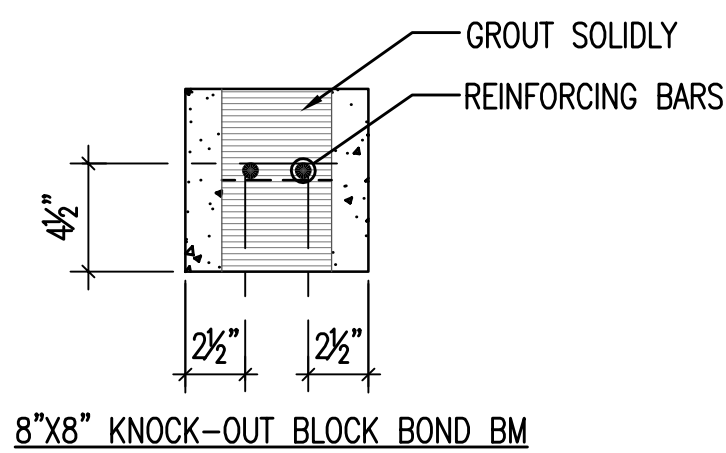
GENERAL STRUCTURAL NOTES CONT'D

C. MISCELLANEOUS

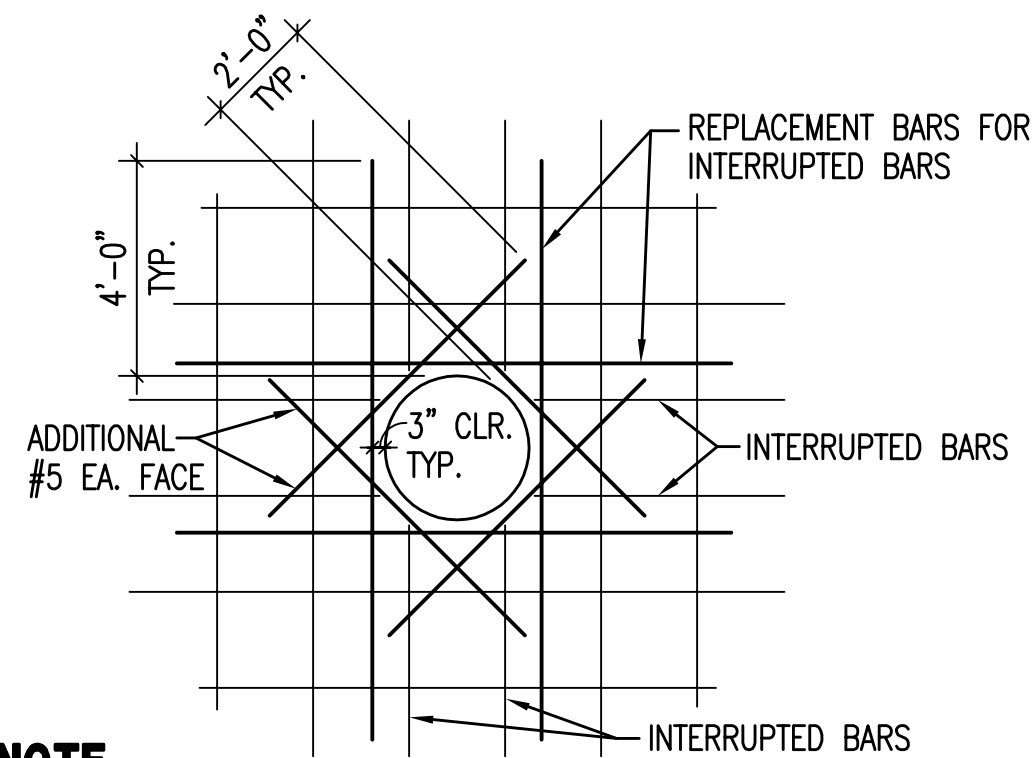
- THE SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS AND MUST BE USED IN CONJUNCTION WITH THE PLANS. WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQUIREMENT SHALL CONTROL.
- DO NOT SCALE PLANS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
- THE STRUCTURAL PLANS REPRESENT THE STRUCTURE IN THE COMPLETED CONDITION. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTING THE STRUCTURE. THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL TEMPORARY SHORING OR BRACING REQUIRED TO SAFELY CONSTRUCT THE STRUCTURE AND PREVENT DAMAGE TO THE STRUCTURE DURING CONSTRUCTION.
- SLABS ON GRADE AND ELEVATED SLABS ARE NOT DESIGNED TO SUPPORT CRANES, FORKLIFTS, MANLIFTS, OR TRUCK TRAFFIC UNLESS NOTED AS SUCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF CONSTRUCTION EQUIPMENT CAN BE SAFELY OPERATED ON SLABS ON GRADE AND ELEVATED SLABS AND TO REPAIR ANY DAMAGE SUCH EQUIPMENT MAY CAUSE.
- THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO SUBMITTAL, NOTING ALL CHANGES MADE THAT DO NOT COMPLY WITH THE CONSTRUCTION DOCUMENTS.
- ON NEW CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL ARCHITECTURAL, ELECTRICAL, AND MECHANICAL OPENINGS AND EQUIPMENT WEIGHTS PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTACHING NON-STRUCTURAL ELEMENTS TO THE STRUCTURE TO RESIST ALL LOADS INCLUDING SEISMIC FORCES IN A WAY THAT DOES NOT OVERSTRESS STRUCTURAL MEMBERS. NON-STRUCTURAL ELEMENTS CAN BE FOUND IN THE ARCHITECTURAL, ELECTRICAL, OR MECHANICAL PLANS.
- WHEN THE CONTRACTOR OR HIS SUBCONTRACTOR(S) FAILS TO CONSTRUCT ANY PORTION OF THE STRUCTURE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REMEDIATION OF THE DEFECT AND ALL RELATED COSTS INCLUDING ENGINEERING SERVICES. WHEN A DEFECT IS FIRST IDENTIFIED, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION. THE ENGINEER MAY THEN REQUIRE THE CONTRACTOR TO MODIFY/REPLACE THE ELEMENT TO RECTIFY THE SITUATION, OR REQUIRE THE CONTRACTOR TO SUBMIT A RECOMMENDED REPAIR SEALED BY A LICENSED ENGINEER FOR APPROVAL.
- WHEN THE CONTRACTOR, SUB-CONTRACTOR, OR MATERIAL SUPPLIER PROVIDES A PIECE OF EQUIPMENT THAT IS DIFFERENT FROM THE EQUIPMENT THAT THE STRUCTURE IS DESIGNED FOR BY EITHER SIZE, WEIGHT, OR CONFIGURATION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REMEDIATING THE SITUATION. THOSE COSTS SHALL INCLUDE THE COSTS TO HIRE A LICENSED ENGINEER TO REDESIGN PORTIONS OF THE STRUCTURE OR THE COSTS OF THE ENGINEER OF RECORD TO REDESIGN PORTIONS OF THE STRUCTURE TO ACCOMMODATE THE SUBSTITUTED PIECE OF EQUIPMENT.

H. STRUCTURAL TESTS, INSPECTIONS, AND QUALITY ASSURANCE

- ALL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED PER CHAPTER 17 OF THE BUILDING CODE WITH LOCAL SUPPLEMENTS, UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED.

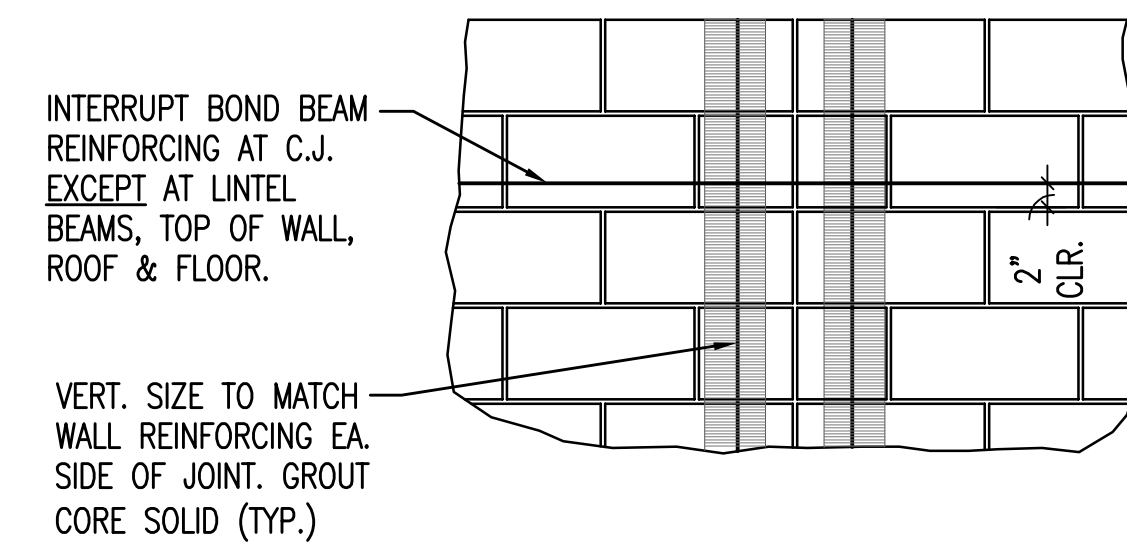
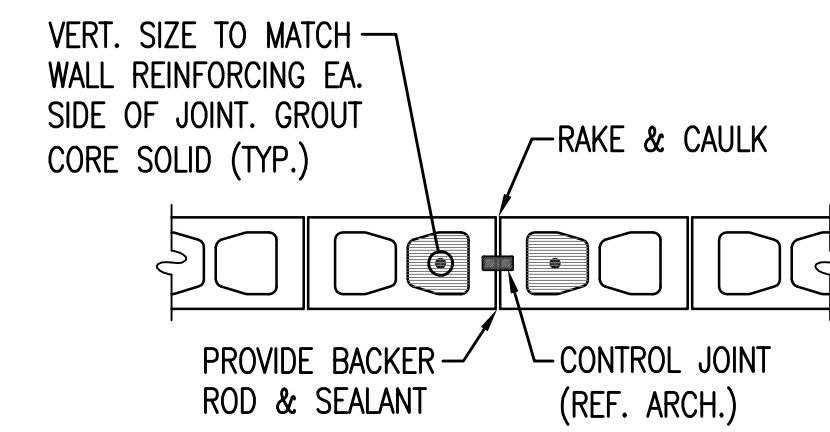


1 BOND BEAM REINFORCING  
47 N.T.S.

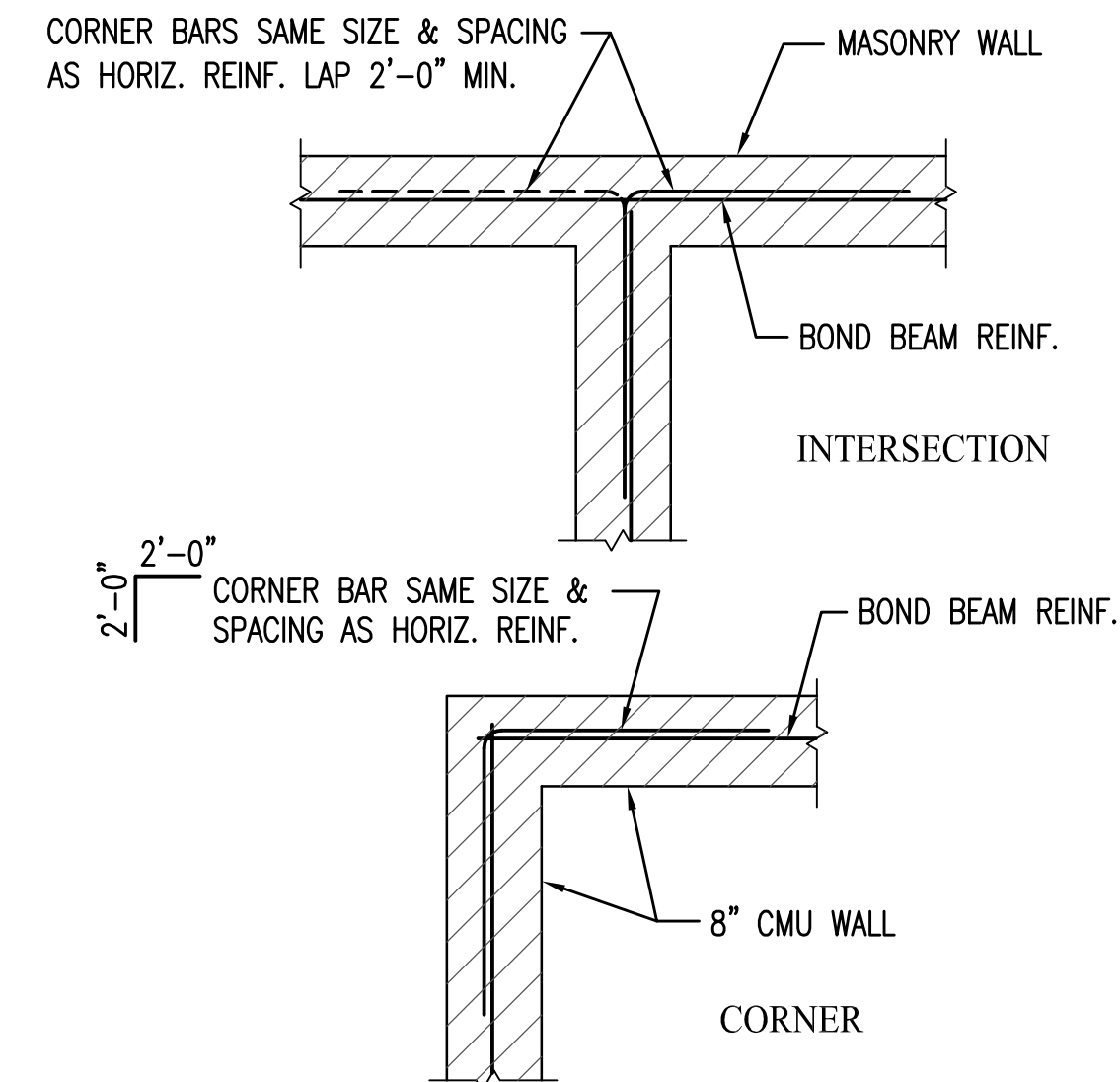


**NOTE:**  
1. USE THIS DETAIL FOR ALL OPENINGS IN CONCRETE SLABS, PROVIDE (2)-#5 ON DIAGONAL AT EACH CORNER AS SHOWN. EXTEND BARS 2'-0" PAST OPENING. REPLACE ALL HORIZONTAL BARS INTERRUPTED BY THE OPENING WITH AN EQUAL NUMBER AND SIZE BARS EVENLY DIVIDED ON EACH SIDE OF THE OPENING UNLESS NOTED OTHERWISE.  
2. REFER TO PLANS FOR ALL OPENING LOCATIONS.

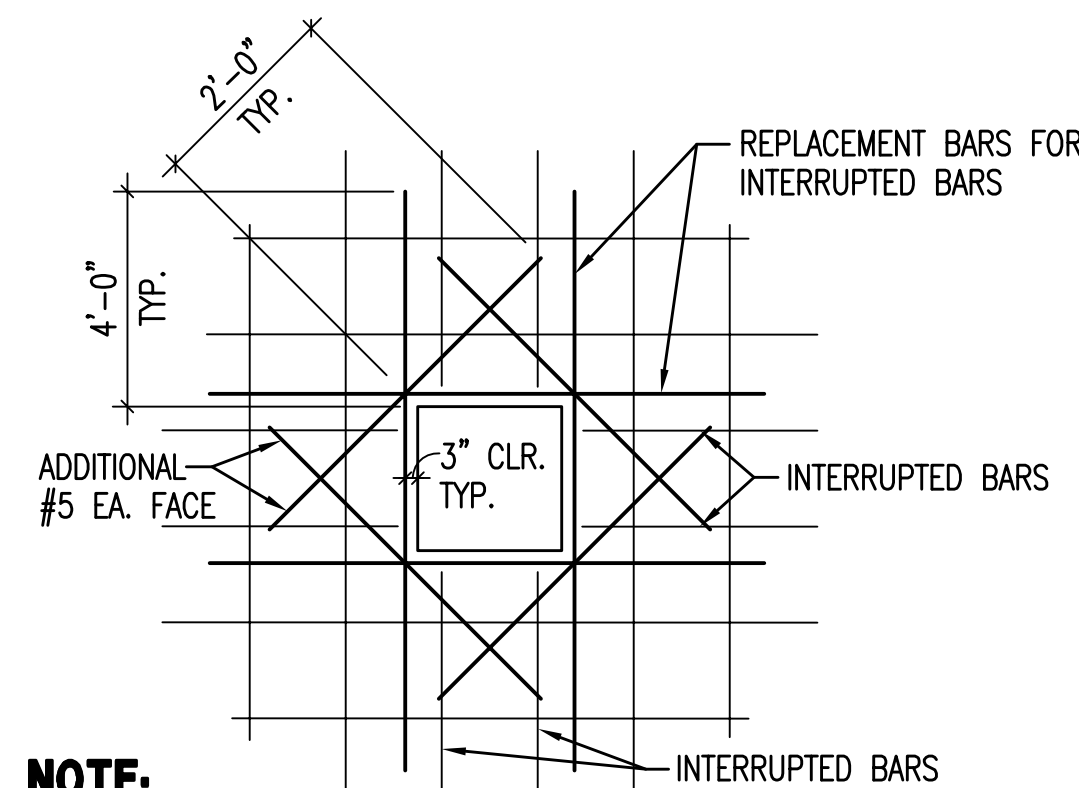
4 TYP. SLAB/WALL OPENING REINF.  
47 NO SCALE



2 SECTION AT MASONRY CONTROL JOINT  
47 N.T.S.

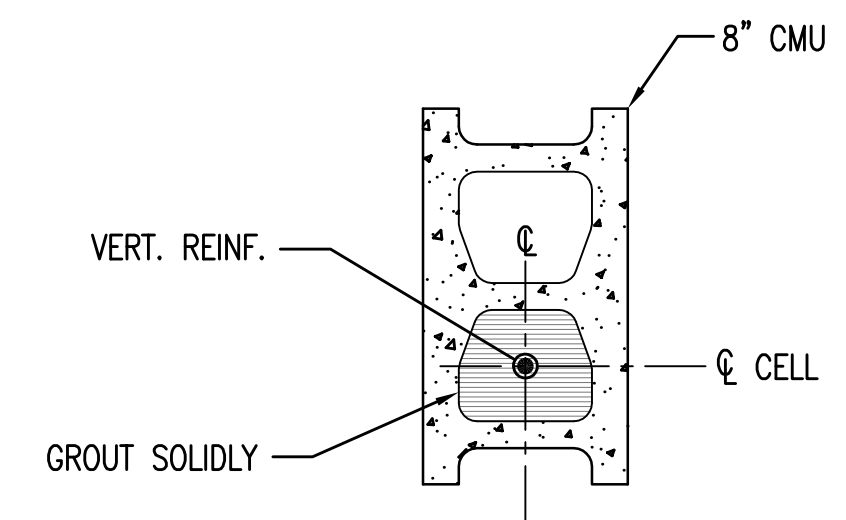


3 MASONRY REINFORCING  
47 N.T.S.



**NOTE:**  
1. USE THIS DETAIL FOR ALL OPENINGS IN CONCRETE SLABS, PROVIDE (2)-#5 ON DIAGONAL AT EACH CORNER AS SHOWN. EXTEND BARS 2'-0" PAST OPENING. REPLACE ALL HORIZONTAL BARS INTERRUPTED BY THE OPENING WITH AN EQUAL NUMBER AND SIZE BARS EVENLY DIVIDED ON EACH SIDE OF THE OPENING UNLESS NOTED OTHERWISE.  
2. REFER TO PLANS FOR ALL OPENING LOCATIONS.

5 TYP. SLAB/WALL OPENING REINF.  
47 NO SCALE

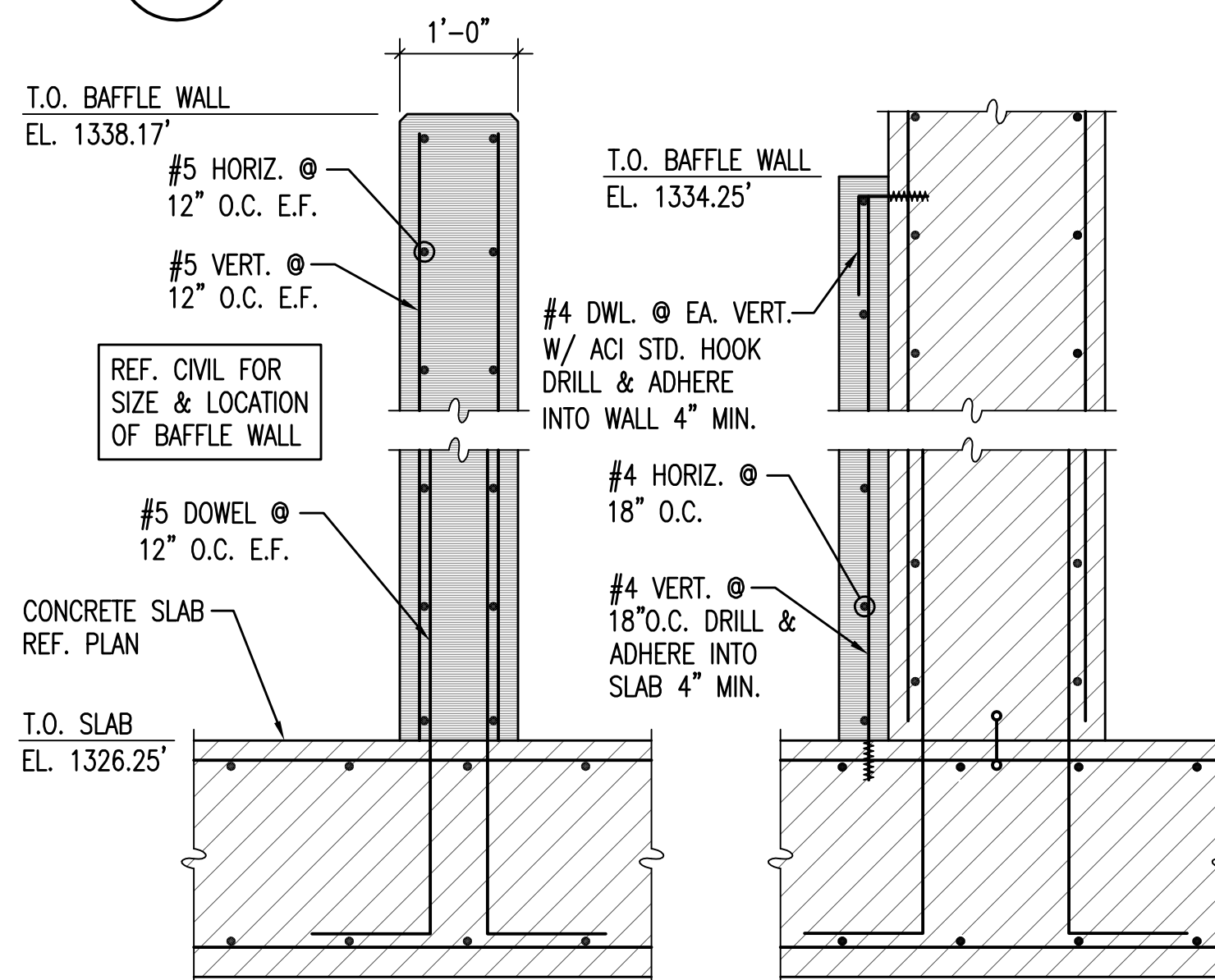


6 VERTICAL CELL REINFORCING  
47 N.T.S.

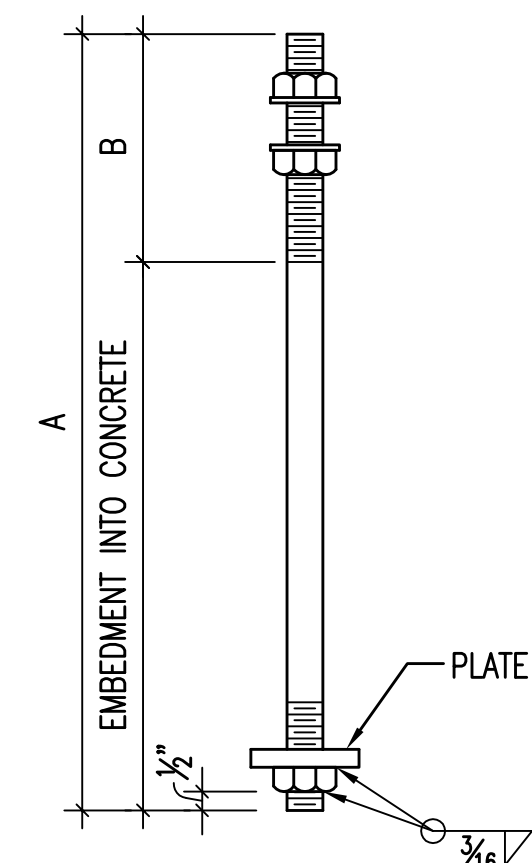
TABLE A - REINFORCEMENT LAPS, EMBEDMENTS, AND HOOK LENGTHS.

BAR SIZE (d)	CLEAR SPACING (S) (in)			EMBEDMENT & CLASS A LAP (in)				CLASS B LAP (in)				HOOK (in)			
	2d	3d	5d	TOP BAR		OTHER BARS		TOP BAR		OTHER BARS					
				2d < S < 3d	S ≥ 3d	2d < S < 3d	S ≥ 3d	2d < S < 3d	S ≥ 3d						
3	3/4	1 1/8	1 1/8	14	14	14	12	12	19	19	19	14	14	14	8
4	1	1 1/2	2 1/2	20	20	20	15	15	25	25	25	20	20	20	10
5	1 1/4	1 7/8	3 3/8	24	24	24	19	19	31	31	31	24	24	24	12
6	1 1/2	2 1/4	3 3/4	31	28	28	24	22	40	37	37	31	28	28	15
7	1 3/4	2 3/8	4 3/8	42	33	33	32	25	55	43	43	42	33	33	18
8	2	3	5	55	39	38	43	31	72	52	49	55	39	38	20
9	2 1/4	3 3/8	5 5/8	70	50	42	54	39	91	65	55	70	50	42	22
10	2.54	3.81	6.35	89	64	51	68	49	115	82	66	89	64	51	25
11	2.82	4.23	7.05	109	78	62	84	60	141	101	81	109	78	62	27

7 REINFORCEMENT TABLE A  
47 NO SCALE



8 TYPICAL BAFFLE WALL DETAIL  
47 3/4" = 1'-0"



DIAMETER	A	B	PLATE SIZE
3/4"	1'-0"	6	1/2X3X3
1"	1'-6"	6	1/2X3X3
4/4"	2'-0"	8	3/4X4X4
4/2"	2'-6"	8	1X5X5

- ALL ANCHOR BOLTS ARE TO BE SUPPLIED WITH 2 NUTS.
- ANCHOR BOLTS SHALL BE ASTM F1554 WITH SUPPLEMENT S1.

9 TYPICAL ANCHOR BOLT DETAIL  
47 NO SCALE

Drawn by DC  
 Checked by GB  
 Date 09-29-2009 11:26:16 AM by DCB  
 Plot Scale 1:16  
 04-29-2009 4:52:52 AM by  
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No.	Revision	By	Date
PHASE II - STORM WATER DRAIN #332 <b>EAST PUMP STATION</b> <b>STRUCTURAL TYPICAL DETAILS</b> JAMES L. ARMOUR, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-84396 <b>Professional Engineering Consultants, P.A.</b> 303 S. TOPKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	GB	Job No.	35-04274-042
Drawn by	DC	Date	SEPTEMBER 2009
			Sht. 47 of 63