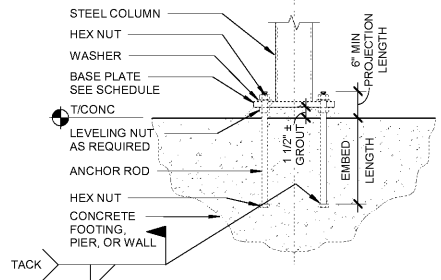


REINFORCING DEVELOPMENT AND SPLICE LENGTH SCHEDULE										
Fy=60 KSI f'c=4000 PSI										
BAR SIZE	#3	#4	#6	#7	#8	#9	#10	#11		
CLASS A TOP BARS	19	25	31	37	54	62	70	79	87	
SPLICE LENGTH	15	19	24	29	42	48	54	61	67	
CLASS B TOP BARS	24	32	40	48	70	80	91	102	113	
SPLICE LENGTH	19	25	31	37	54	62	70	79	87	

NOTES: (APPLY TO BOTH 3000 PSI & 4000 PSI CONCRETE)

- ALL SPLICE LENGTHS SHALL BE CLASS B UNLESS NOTED OTHERWISE.
- TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
- TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-05, SECTIONS 12.2.5, RESPECTIVELY. TABULATED VALUES FOR BEAMS AND COLUMNS ARE BASED ON TRANSVERSE REINFORCING AND CONCRETE COVER MEETING MIN. CODE REQUIREMENTS. LENGTHS ARE IN INCHES.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
- SPLICE AND DEVELOPMENT LENGTHS IN THIS SCHEDULE ARE BASED ON CASE 1 PER CRSI (1996):
BEAMS OR COLUMNS: COVER AT LEAST 1.0 BAR Ø.
AND C.C. SPACING AT LEAST 2.0 BAR Ø.
ALL OTHERS: COVER AT LEAST 1.0 BAR Ø.
AND C.C. SPACING AT LEAST 3.0 BAR Ø.

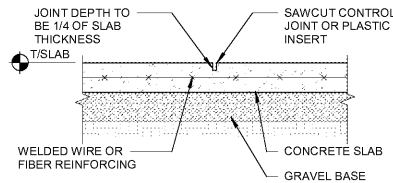


BOLT Ø (IN.)	WASHER SIZE (IN.)	WASHER THICKNESS (IN.)	MAXIMUM HOLE Ø (IN.)	EMBED LENGTH (IN.)
3/4	2 x 2	1/4	1 5/16	9
7/8	2 1/2 x 2 1/2	5/16	1 9/16	12
1	3 x 3	3/8	1 13/16	12
1 1/4	3 x 3	1/2	2 1/16	12
1 1/2	3 1/2 x 3 1/2	1/2	2 5/16	12
1 3/4	4 x 4	5/8	2 3/4	12
2	5 x 5	3/4	3 1/4	12
2 1/2	5 1/2 x 5 1/2	7/8	3 1/4	12

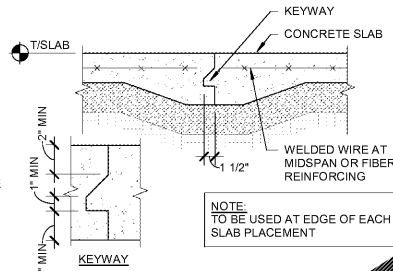
NOTE:

PER OSHA SECTION 1926.755(a)(2) ALL ANCHOR BOLTS SHALL BE PROOF LOADED TO 900 LBS BEFORE STEEL ERECTION CAN BEGIN.

- SECTION 1: SLAB-ON-GRADE NOTES**
- SLAB-ON-GRADE CONSTRUCTION SHOULD CONFORM WITH THE RECOMMENDATIONS AND REQUIREMENTS SET FORTH IN THE LATEST RELEASE OF ACE 302 GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
 - REFER TO THE GENERAL NOTES, THE SPECIFICATION, AND THE DRAWINGS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION, AND/OR MUD SLAB AND VAPOR RETARDER REQUIREMENTS.
 - THE SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
 - REFER TO PLANS FOR SLAB THICKNESS ("T") AND REINFORCEMENT (WWF OR REINFORCEMENT BARS). REFER TO SPECIFICATIONS FOR FIBER REINFORCEMENT TO BE INCORPORATED IN CONCRETE MIX, IF ANY. WHERE PRESENT, REINFORCING BARS SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
 - PROVIDE (2) #5 x 6'-0" AT ALL RE-ENTRANT CORNERS AND OTHER SIMILAR SLAB DISCONTINUITIES.
 - UNLESS SHOWN OTHERWISE ON THE DRAWINGS, PROVIDE CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMNS SUCH THAT THE JOINT SPACING DOES NOT EXCEED 36 x ("T") UNO. THE RESULTING PANELS SHOULD BE APPROXIMATELY SQUARE.



SLAB CONTROL JOINT

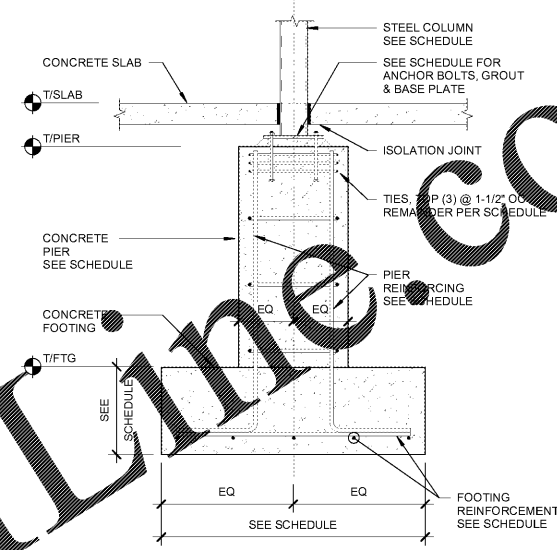


SLAB CONSTRUCTION JOINT

- SECTION 2: CONSTRUCTION JOINT NOTES**
- BREAK THE BOND BETWEEN NEW AND PREVIOUSLY PLACED SLABS BY SPRAYING OR BY PAINTING THE EXPOSED SIDE OF THE JOINT WITH A CURING COMPOUND, ASPHALTIC EMULSION, OR FORM OIL.

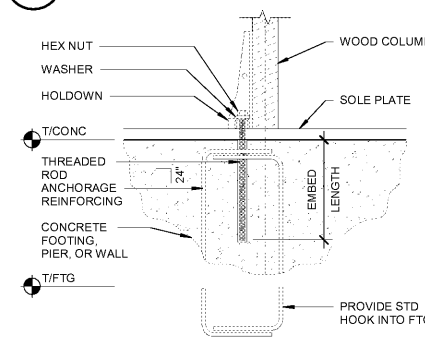
- SECTION 3: CONTROL JOINT NOTES**
- FOR SAW-CUT CONTROL JOINTS, MAKE THE SAW-CUT AS SOON AS THE SLAB IS ABLE TO SUPPORT THE WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO THE FINISHED SURFACE OF THE SLAB, BUT WITHIN 24 HOURS.
 - DEPTH OF SAW-CUT SHOULD BE 1 1/4" IF PRODUCED USING THE EARLY ENTRY DRY-CUT PROCESS AND "T"/4 (1" MIN) IF PRODUCED USING THE CONVENTIONAL WET-CUT PROCESS.
 - REFER TO SPECIFICATIONS REGARDING EPOXY RESIN OR ELASTOMERIC SEALANT REQUIREMENTS FILL CONTROL JOINTS.

- SECTION 4: FORMED CONTROL JOINT OPTION NOTES**
- FORM CONTROL JOINTS BY INSERTING A PRE-MOLDED STRIP INTO THE FRESH CONCRETE UNTIL THE TOP SURFACE OF THE STRIP IS FLUSH WITH THE TOP SURFACE OF THE SLAB.
 - TOOL THE SLAB EDGES ROUND ON EACH SIDE OF THE INSERT, 1/8" MAX RADIUS.
 - AFTER THE CONCRETE HAS CURED, REMOVE THE INSERTS AND CLEAN THE GROOVE OF LOOSE DEBRIS.



4 TYPICAL CONCRETE PIER DETAIL
SCALE: 3/4" = 1'-0"

1 TYPICAL REINFORCING DEVELOPMENT AND SPLICING
SCALE: 12" = 1'-0"

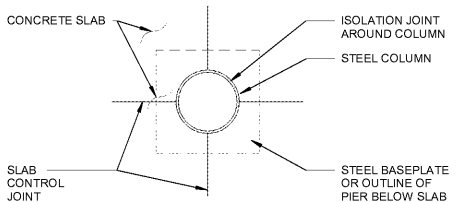


THREADED ROD Ø	WASHER SIZE	WASHER THICKNESS	EMBED LENGTH	ANCHORAGE REINFORCING
1/2"	2" x 2"	1/4"	1'-0"	(1)-#4 HOOKED
3/4"	2" x 2"	1/4"	1'-1"	(2)-#4 HOOKED
7/8"	2 1/2" x 2 1/2"	5/16"	1'-3"	(2)-#5 HOOKED
1"	3" x 3"	3/8"	1'-5"	(2)-#5 HOOKED

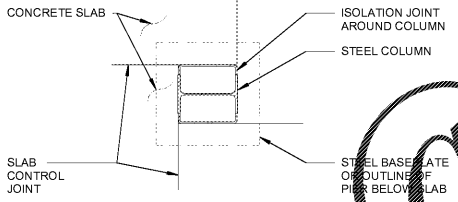
NOTE:
PER OSHA SECTION 1926.755(a)(2) ALL ANCHOR BOLTS SHALL BE PROOF LOADED TO 900 LBS BEFORE STEEL ERECTION CAN BEGIN.

5 TYPICAL HOLDOWN ANCHORAGE
SCALE: 1" = 1'-0"

2 TYPICAL CAST-IN-PLACE ANCHOR
SCALE: 1" = 1'-0"

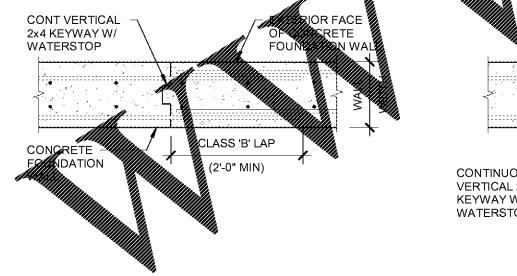


TYPICAL ROUND COLUMN JOINTS

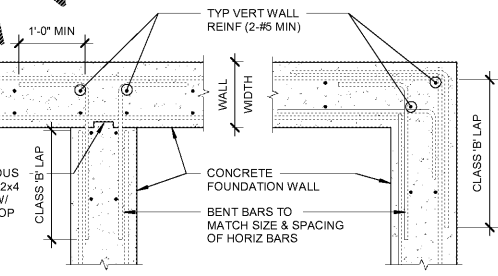


TYPICAL SQUARE COLUMN JOINTS

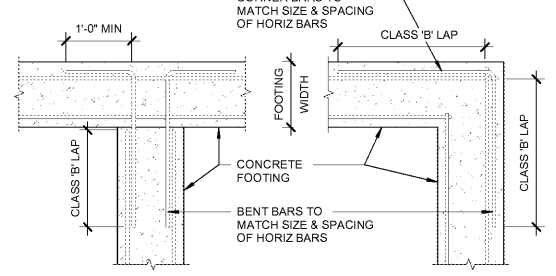
3 TYPICAL SLAB JOINTS
SCALE: 1" = 1'-0"



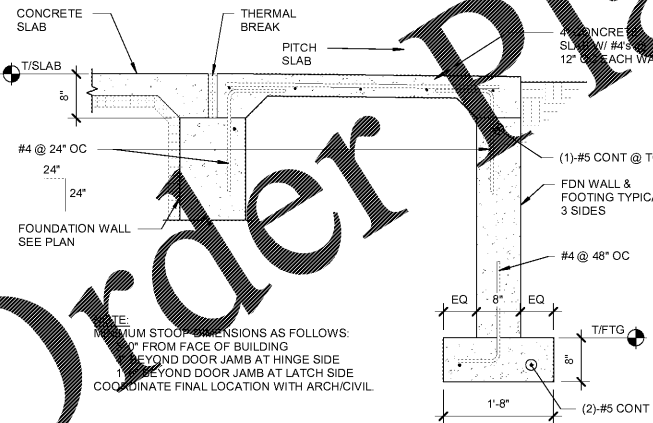
7 TYPICAL WALL CONSTRUCTION JOINT
SCALE: 3/4" = 1'-0"



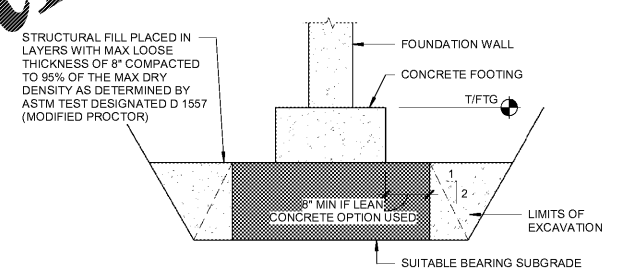
8 TYPICAL WALL REINFORCING
SCALE: 3/4" = 1'-0"



9 TYPICAL FOOTING REINFORCING
SCALE: 3/4" = 1'-0"

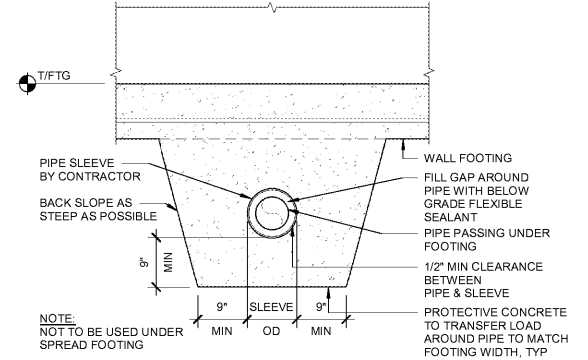


10 TYPICAL STOOP SECTION
SCALE: 3/4" = 1'-0"

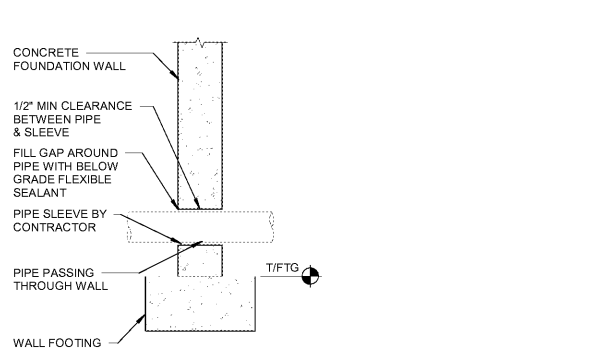


- NOTES:**
- CONTRACTOR'S OPTION: ELIMINATE STRUCTURAL FILL BY LOWERING DESIGNED FOOTING ELEVATION SO THAT FOOTING RESTS DIRECTLY ON SUITABLE BEARING SUBGRADE, PROVIDE LEAN CONCRETE (f'c = 1,000 PSI MIN) UNDER THE FOOTING AS SHOWN HATCHED ABOVE, OR INCREASE FOOTING THICKNESS TO REACH SUITABLE BEARING SUBGRADE.
 - THIS DETAIL APPLIES ONLY AT THOSE LOCATIONS WHERE GEOTECH ENGINEER DEEMS SOILS AT DESIGNED FOOTING ELEVATIONS ARE INADEQUATE FOR FOOTING SUPPORT. WHERE THIS WORK IS REQUIRED, CONTRACTOR WILL BE COMPENSATED ON A PRE-ESTABLISHED UNIT COST AGREED UPON BY THE CONTRACTOR, ARCHITECT/ENGINEER, AND OWNER.

11 TYPICAL OVER EXCAVATION DETAIL
SCALE: 3/4" = 1'-0"



12 TYPICAL PIPE CROSSING FOUNDATION WALL
SCALE: 3/4" = 1'-0"



THROUGH WALL

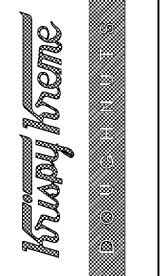
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SHEET TITLE: FOUNDATION SECTIONS & DETAILS

SHEET NO.:

S3.0