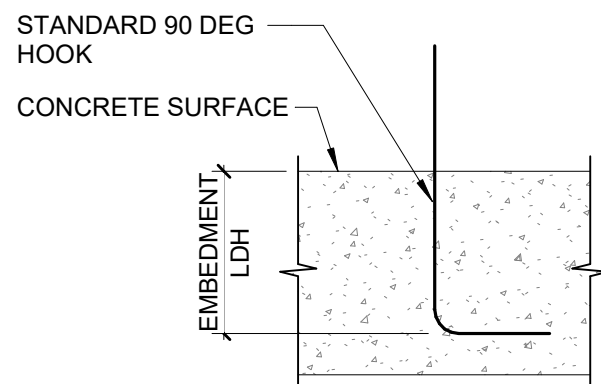


EMBEDMENT OF STD HOOKS	
BAR SIZE	LDH (INCHES)
3	9"
4	11"
5	1'-2"
6	1'-5"
7	1'-8"
8	1'-10"
9	2'-1"

NOTES:

- THIS TABLE ASSUMES:
 $f_c = 3,000 \text{ psi}$
 $F_y = 60,000 \text{ psi}$



CLASS 'A' LAPS			
BAR SIZE	FC (PSI)		
	3000	4000	5000
3	1'-5"	1'-3"	1'-1"
4	1'-10"	1'-7"	1'-5"
5	2'-4"	2'-0"	1'-10"
6	2'-9"	2'-5"	2'-2"
7	4'-0"	3'-6"	3'-2"
8	4'-7"	4'-0"	3'-7"
9	6'-2"	4'-6"	4'-0"

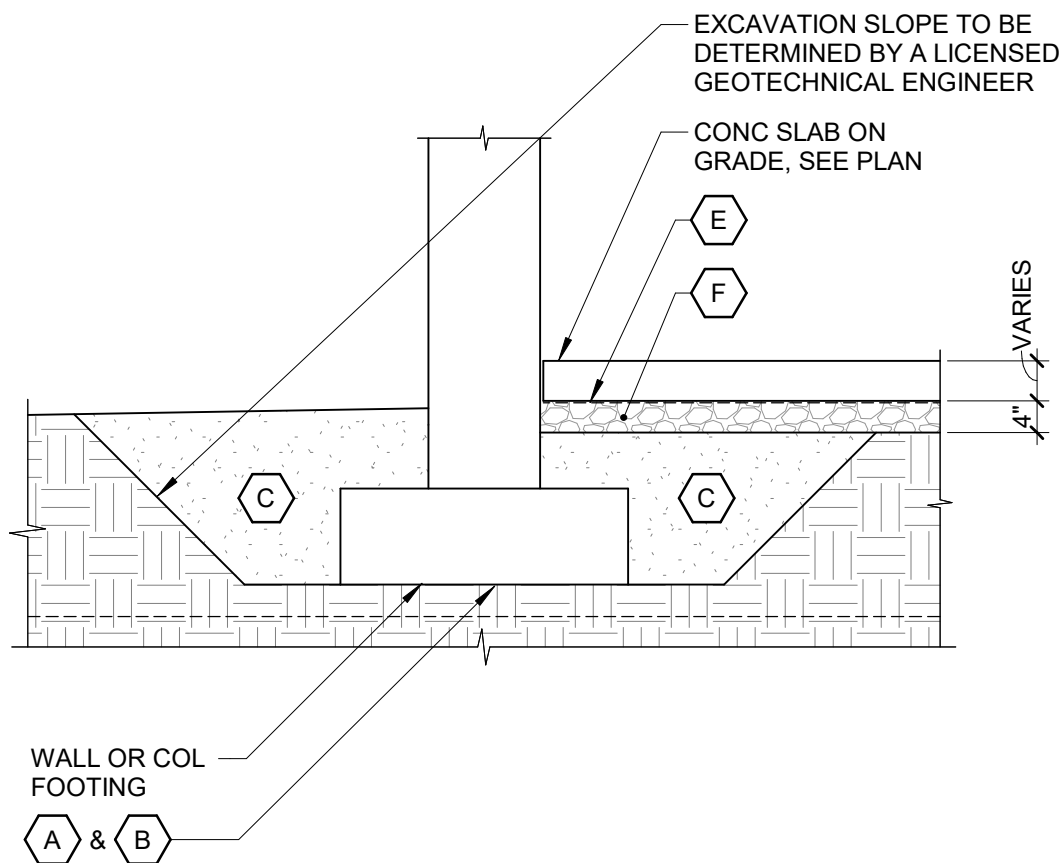
CLASS 'B' LAPS			
BAR SIZE	FC (PSI)		
	3000	4000	5000
3	1'-10"	1'-7"	1'-5"
4	2'-4"	2'-1"	1'-11"
5	3'-0"	2'-7"	2'-4"
6	3'-7"	3'-1"	2'-10"
7	5'-3"	4'-6"	4'-1"
8	6'-0"	5'-2"	4'-8"
9	6'-9"	5'-10"	5'-3"

NOTES:

1. THESE TABLES ARE BASED ON THE FOLLOWING ASSUMPTIONS:
 - A. CLEAR SPACING OF BARS GREATER OR EQUAL TO D_b .
 - B. CLEAR COVER GREATER OR EQUAL TO D_b .
 - C. STIRRUPS OR TIES PROVIDED THROUGHOUT DEVELOPMENT LENGTH GREATER THAN CODE MIN.

OR

 - D. CLEAR SPACING OF BARS GREATER OR EQUAL TO $2D_b$.
 - E. CLEAR COVER GREATER THAN D_b .
2. FOR OTHER CASES, MULTIPLY LENGTHS SHOWN BY 1.5.
3. FOR TOP BAR SPLICES, MULTIPLY LENGTHS SHOWN BY 1.3. TOP BARS ARE SUCH THAT 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE SPLICE OR DEVELOPMENT LENGTH.
4. LIGHTWEIGHT CONCRETE, MULTIPLY LENGTHS SHOWN BY 1.3.
5. FOR HIGHER GRADE STEEL MULTIPLY LENGTHS SHOWN BY A RATIO OF HIGHER $F_y(KSI)$ OVER 60(KSI). ALL OTHER FACTORS LISTED STILL APPLY.
6. FOR COMPRESSION LAP SPLICE USE (0.0009F_y-24) D .



1. REFER TO CIVIL DRAWINGS FOR EXISTING AND FINAL GRADES.
2. COMPACT TO THE PERCENTAGE OF ASTM D-1557-MODIFIED PROCTOR, MAXIMUM DRY DENSITY.
3. COMPACT ACCEPTABLE FILL AT LEAST FOUR PERCENTAGE POINTS OVER THE OPTIMUM MOISTURE CONTENT.
4. ACCEPTABLE FILL IS DEFINED AS A NON-PLASTIC, INORGANIC, GRANULAR SOIL WITH NO MORE THAN 12% FINES OR 4% ORGANICS.

- | | |
|----------|---|
| A | SUBGRADE: ALL OPEN FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY A LICENSED GEOTECHNICAL ENGINEER (PRIOR TO POURING CONCRETE) TO ENSURE ALL MATERIALS REQUIRING REMOVE HAVE BEEN REMOVED AND TO VERIFY THE SOIL BEARING CAPACITY USED FOR DESIGN. |
| B | NATIVE SOIL: FOUNDATIONS SHALL BEAR ON STABLE, COMPACTED IN-SITU SOILS OR STRUCTURAL FILL, REFER TO GENERAL STRUCTURAL NOTES SECTION 6 FOR ADDITIONAL INFORMATION. |
| C | BACKFILL: STRUCTURAL FILL MATERIAL: COMPACT TO AT LEAST 95% AT FOOTINGS AND SLABS, SEE GENERAL NOTES (1), (2), AND (3) ABOVE. COMPACTION SHALL BE AS DESCRIBED IN GENERAL STRUCTURAL NOTES SECTION 6. |
| D | FINAL GRADE: SLOPE AWAY FROM BUILDING; MINIMUM 5% GRADE; MAXIMUM 33% GRADE. |
| E | VAPOR BARRIER: 15 MIL POLYETHYLENE, REFER TO SPECIFICATIONS. |
| F | CAPILLARY WATER BARRIER: 6" OF FREE DRAINING, CLEAN, POORLY GRADED CRUSHED ROCK PLACED BENEATH THE BUILDING SLAB AND VAPOR BARRIER. FOR CAPILLARY WATER BARRIER MATERIALS AND PLACEMENT, REFER TO SPECIFICATION SECTION 31 00 00.00.06. |

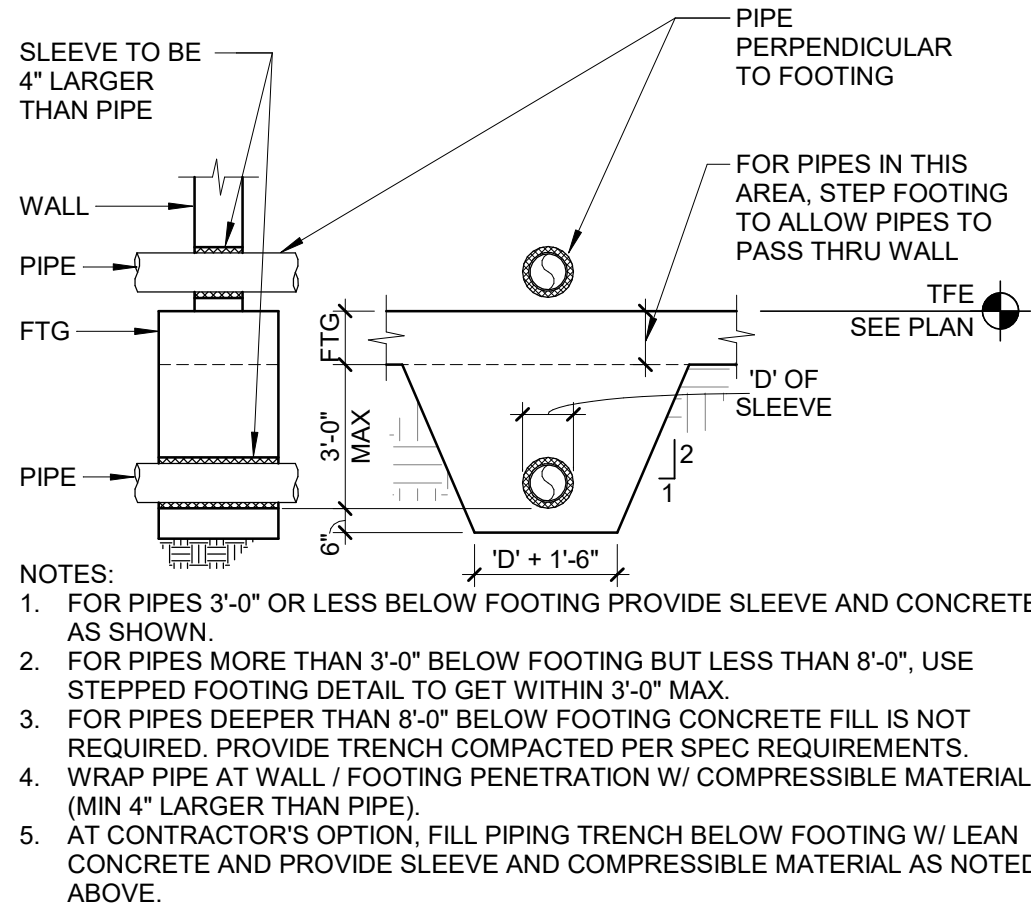
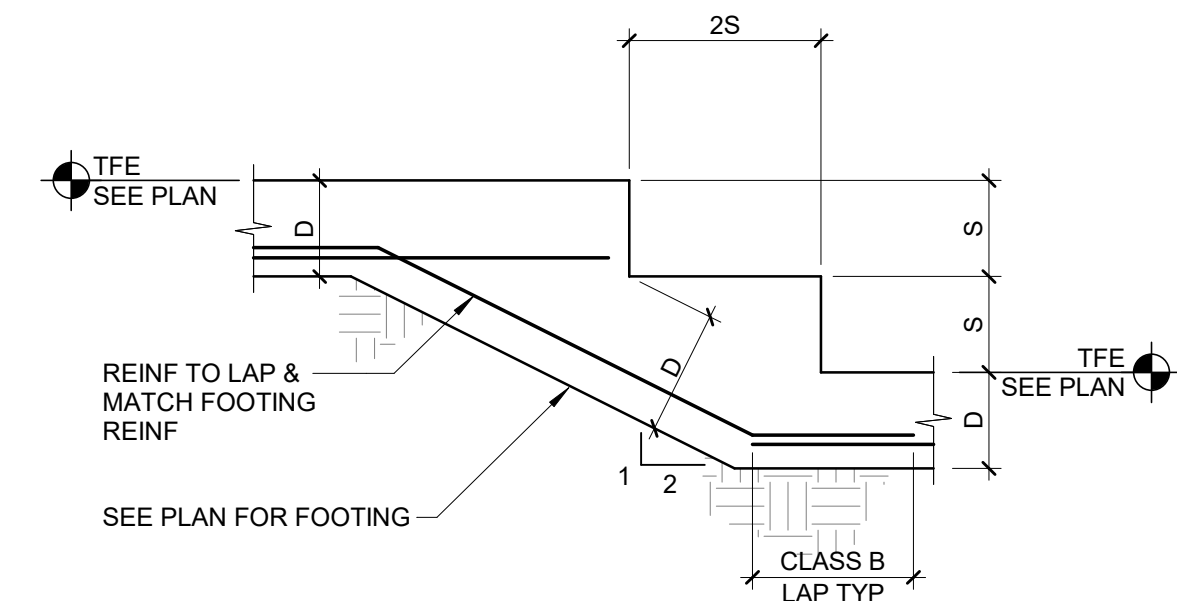
NOTES:

1. d = BAR DIAMETER
2. FOR STANDARD HOOKS AND BENDS:
 $D = 6d$ FOR #3 THRU #8
 $D = 8d$ FOR #9 THRU #11
3. FOR TIES AND STIRRUPS:
 $D = 4d$ FOR #3 THRU #5
4. REFER TO GENERAL STRUCTURAL NOTES FOR VERTICAL REINF SPLICE REQUIREMENTS

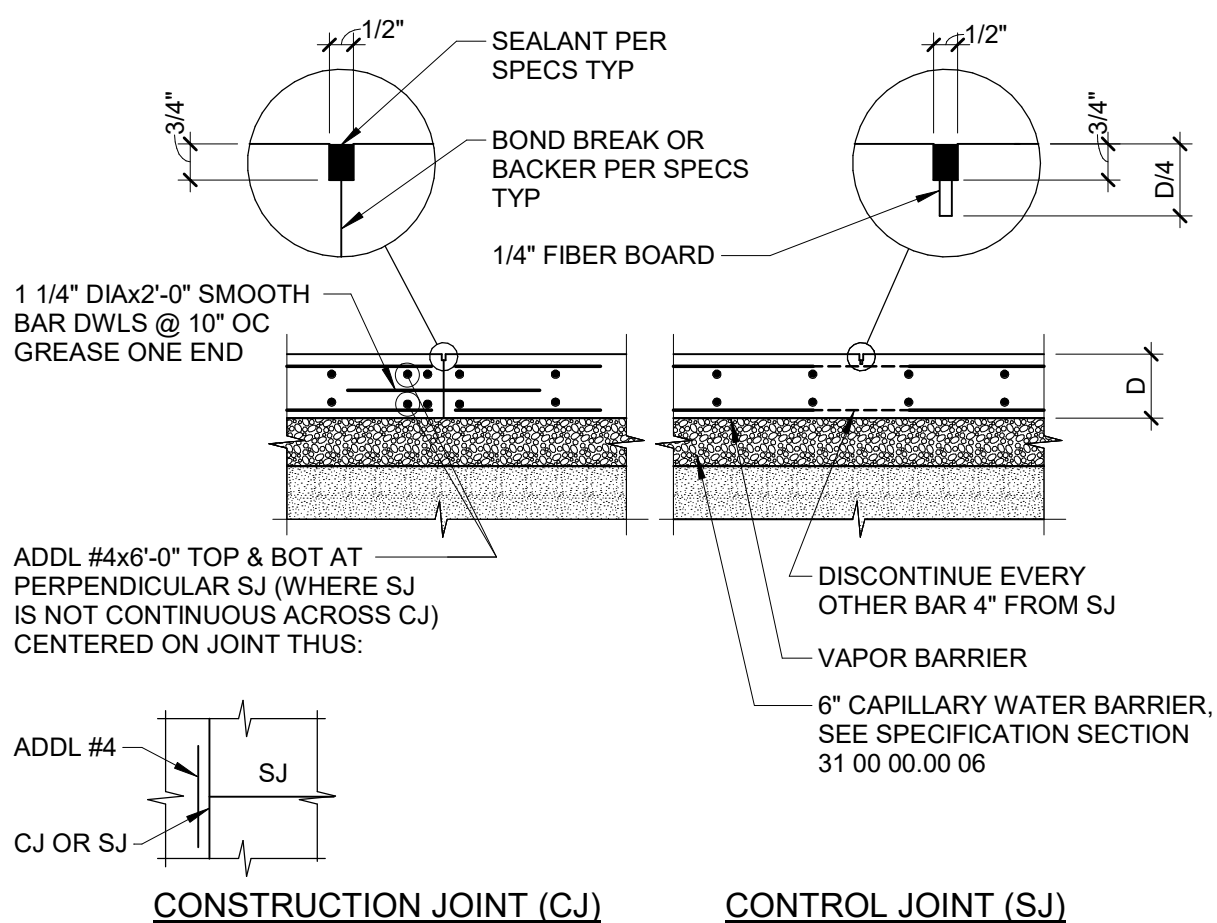
LAP SPLICE

2
S501

S501 $1/2" = 1'-0"$

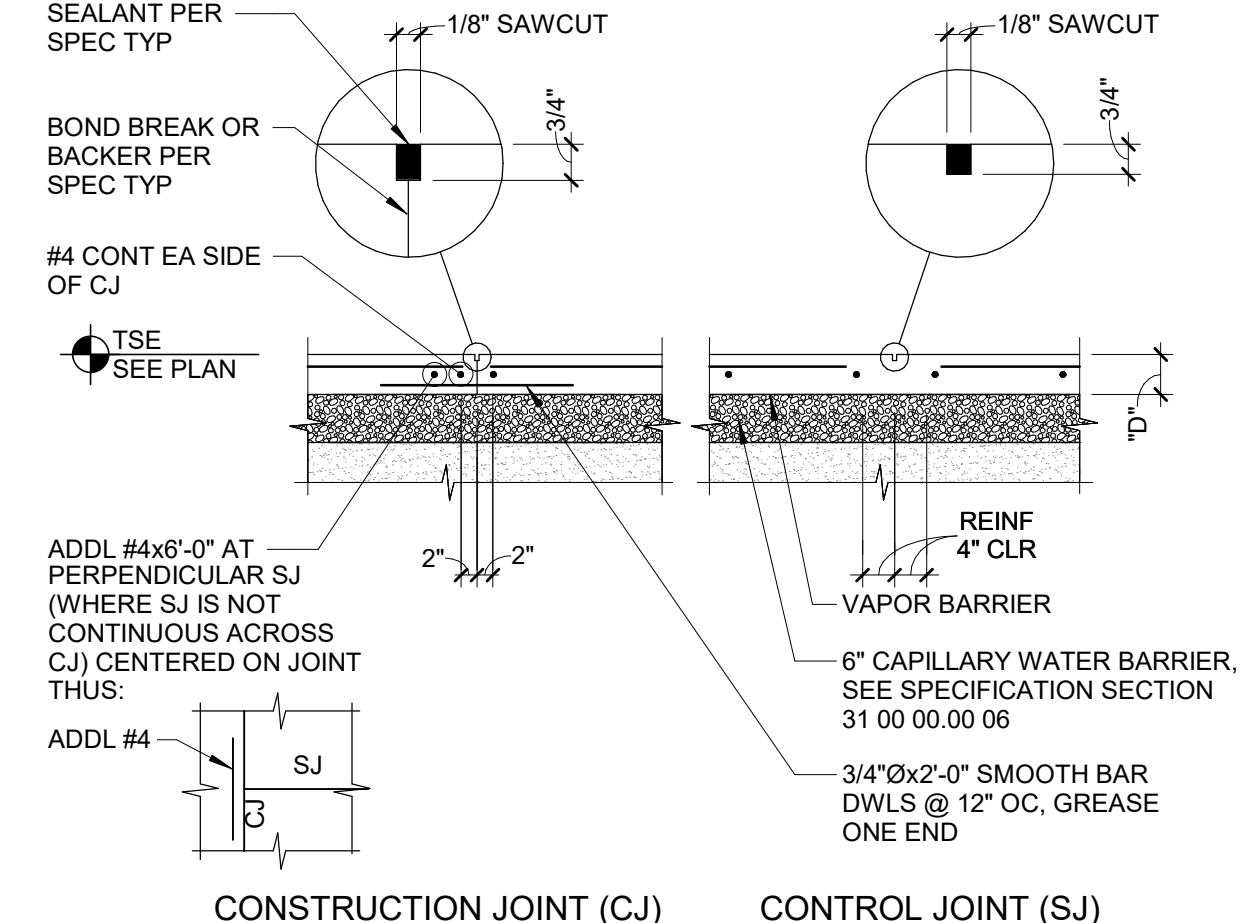


S501 $1/4'' = 1'-0''$



NOTES:
1. SAWCUT CONTROL JOINTS WITHIN 12 HOURS OF THE SLAB POUR OR AS EARLY AS POSSIBLE WITHOUT CAUSING RAVELING. CONTROL AND/OR CONSTRUCTION JOINTS TO BE SPACED AS INDICATED ON PLAN.

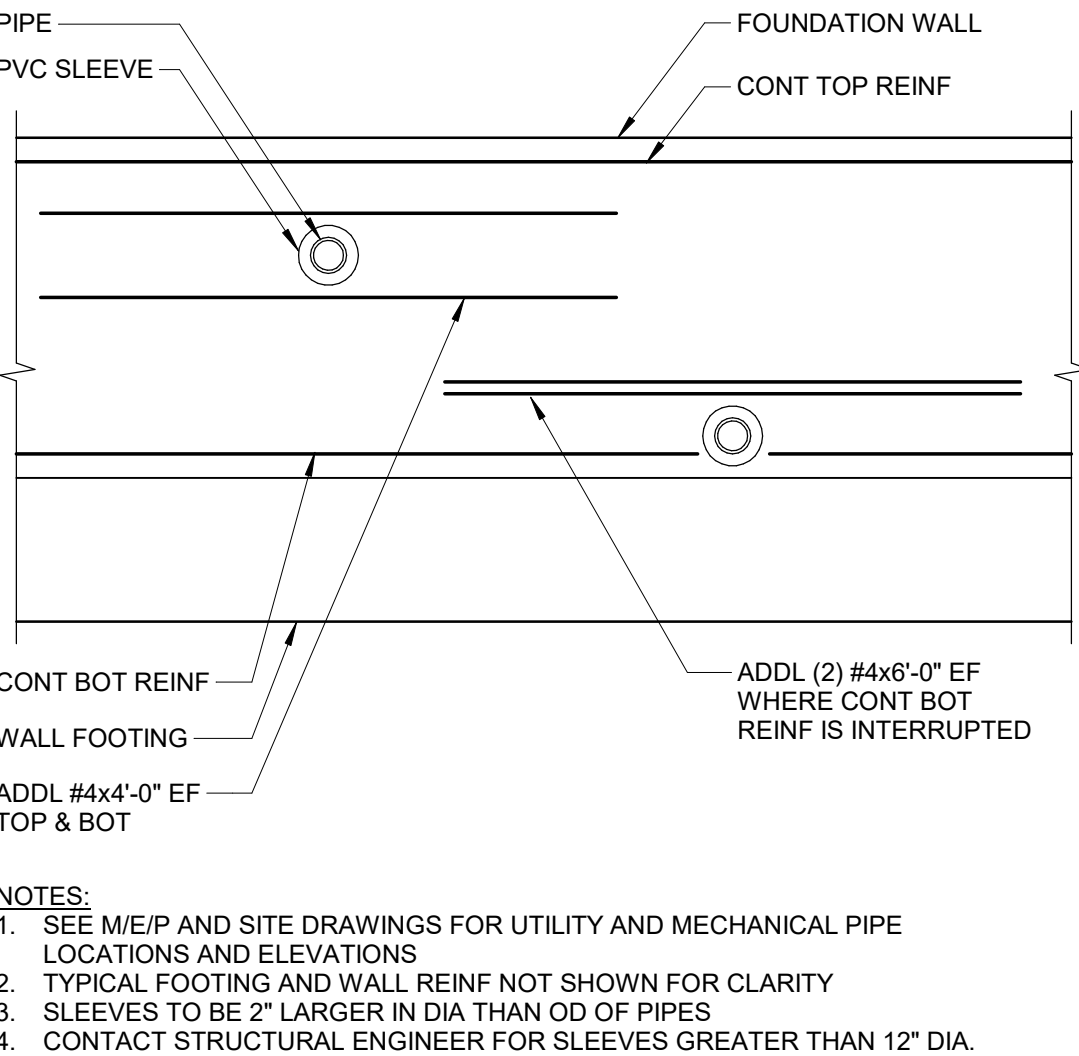
S501 $1/2" = 1'-0"$



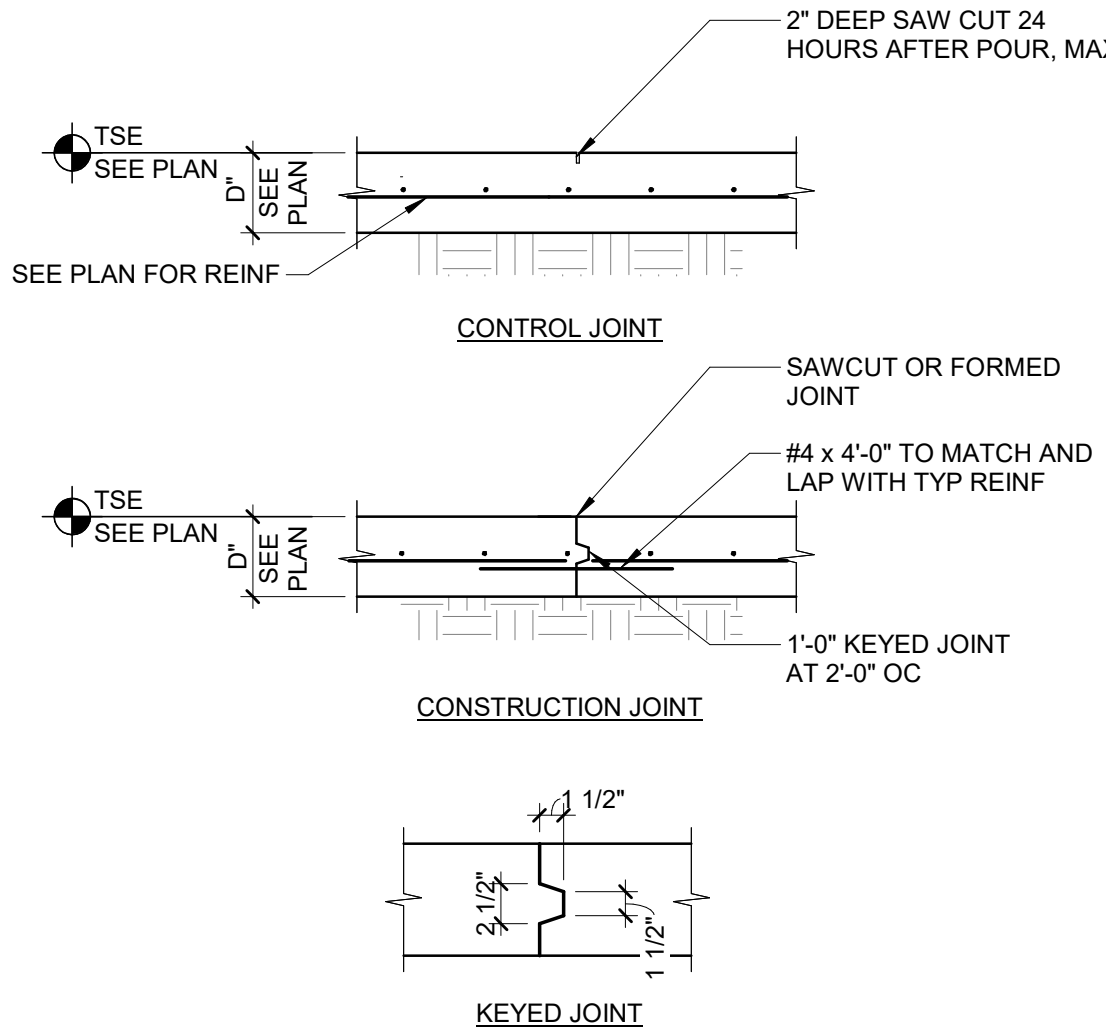
NOTES:
1. SAWCUT CONTROL JOINTS WITHIN 12 HOURS OF THE SLAB POUR OR AS EARLY AS POSSIBLE WITHOUT CAUSING RAVELING. CONTROL AND/OR CONSTRUCTION JOINTS TO BE SPACED AS INDICATED ON PLAN.

S501 1/2" = 1'-0"

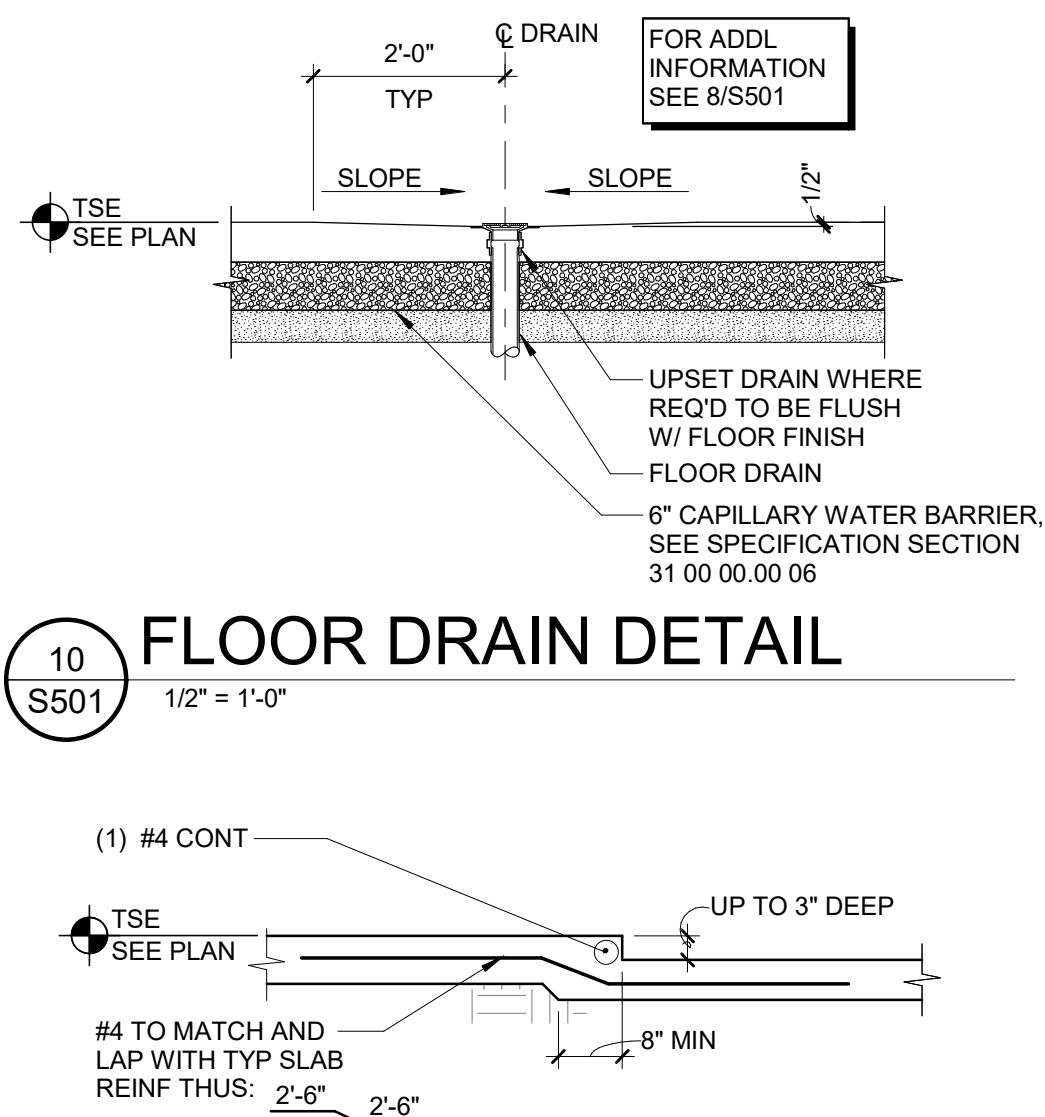
(S501) NO SCALE



(S501) $1/2'' = 1'-0''$



S501 $1/2" = 1'-0"$

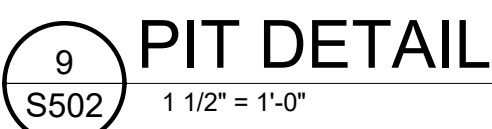
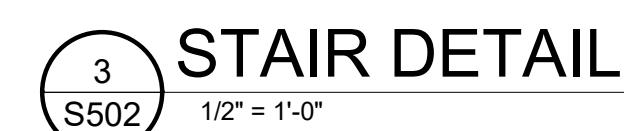
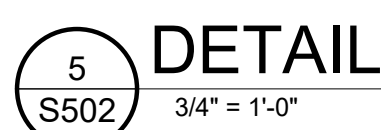
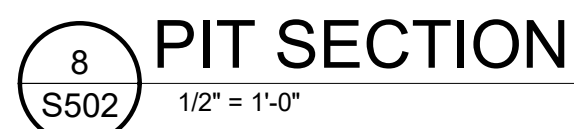


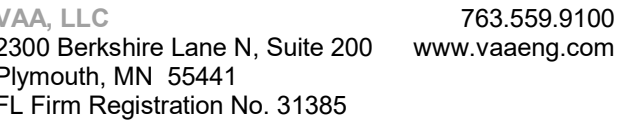
SLAB STEP UP TO 3" DEEP

(S501) $3/4" = 1'-0"$

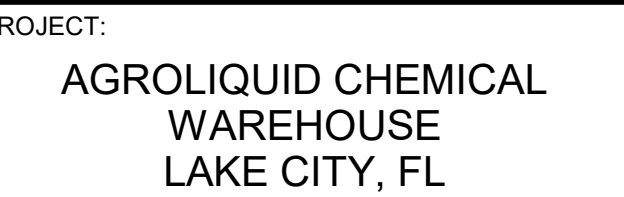
(S501) $1/2'' = 1'-0''$







GREYSTONE CONSTRUCTION



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8730

FOUNDATION DETAILS

DRAWING NO: