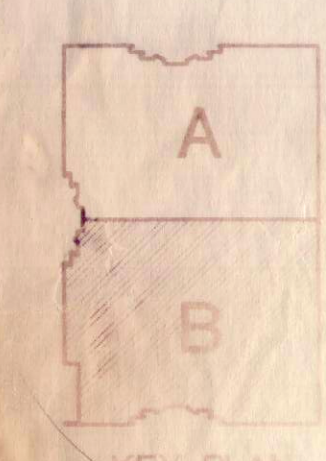
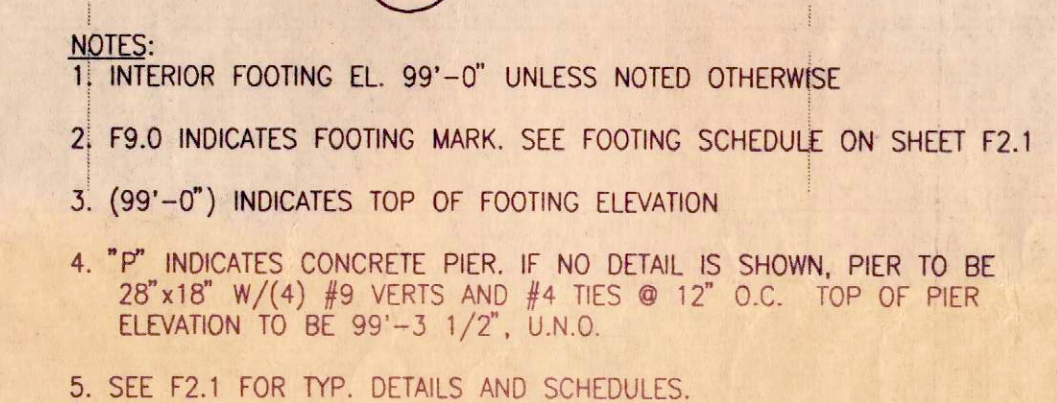
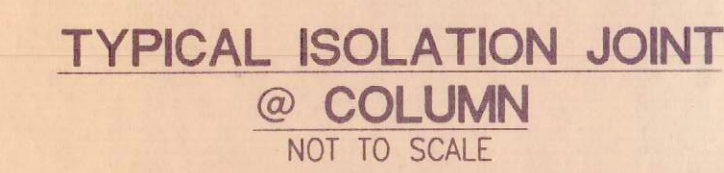
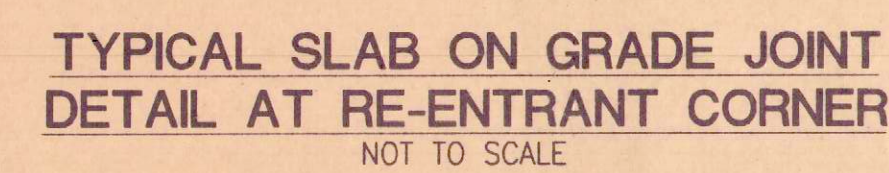
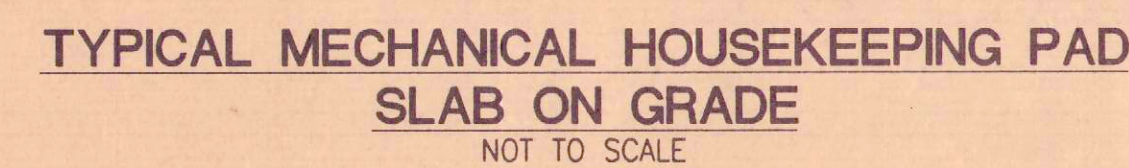
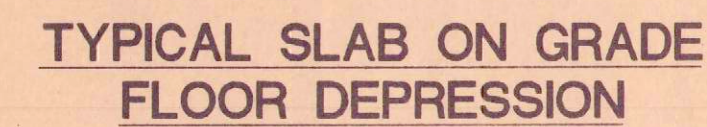
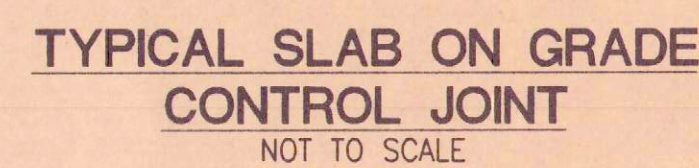




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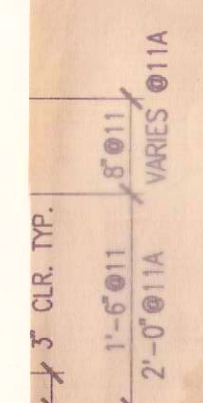
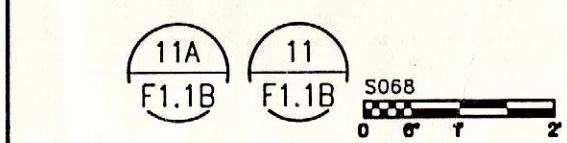
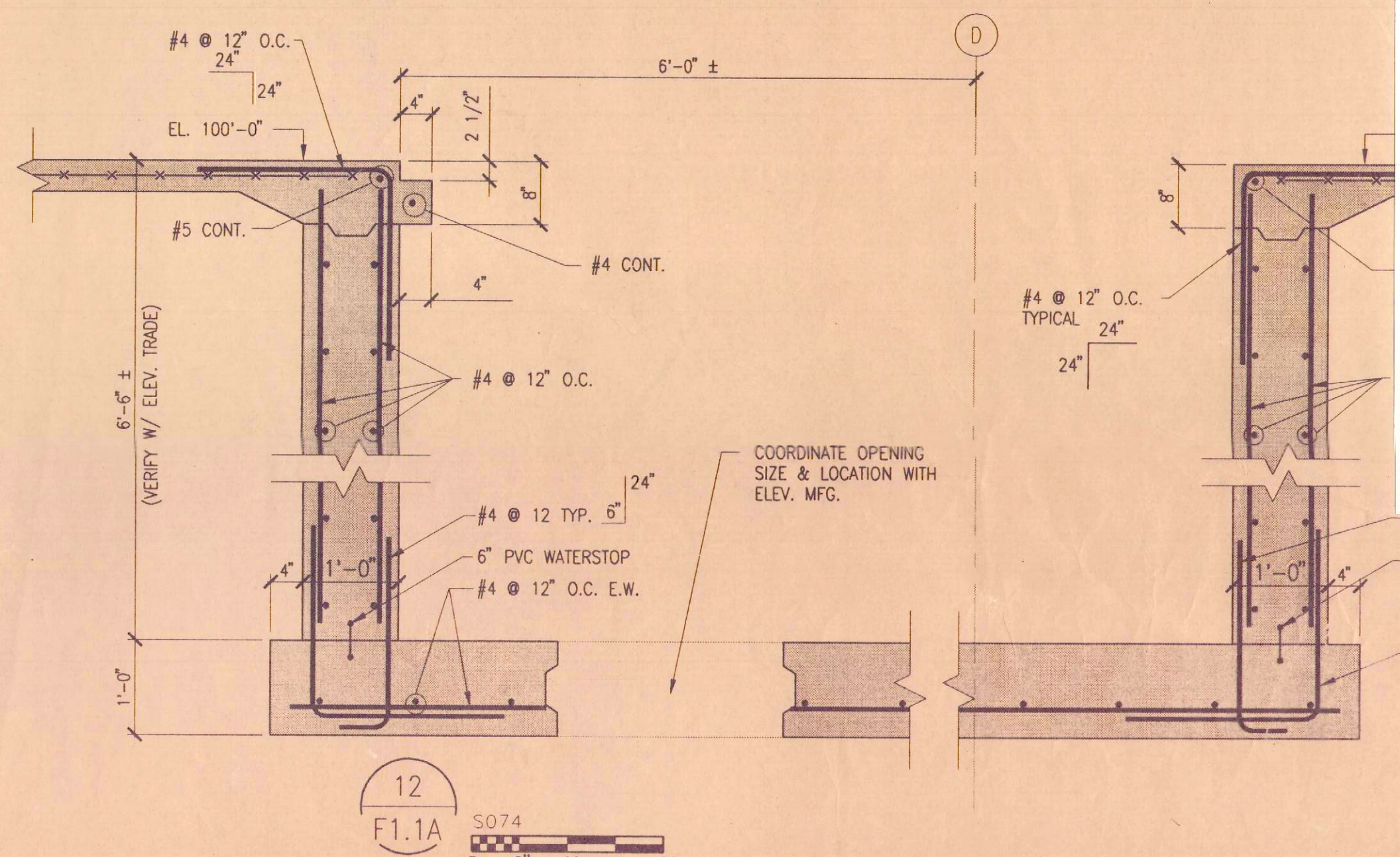
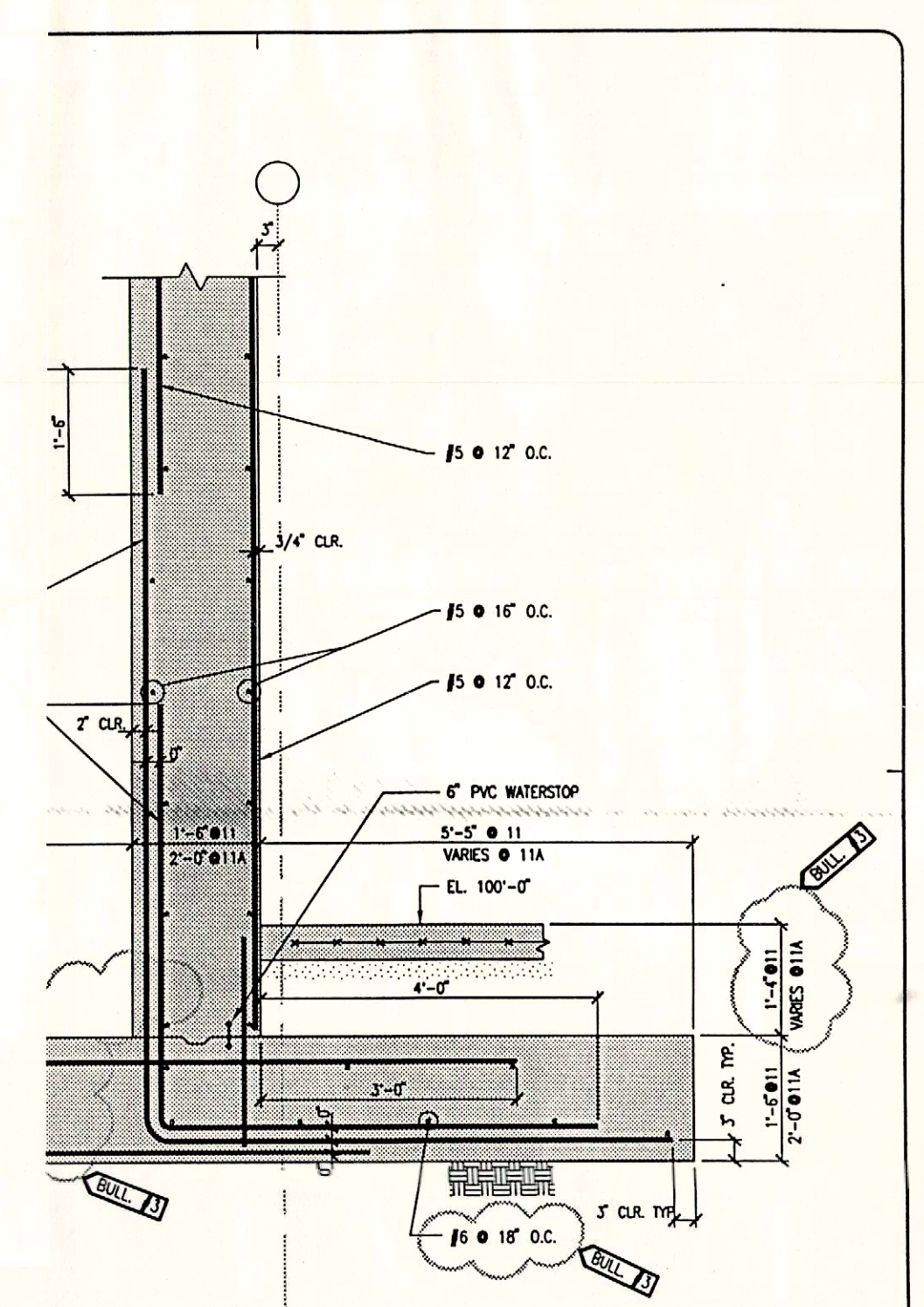
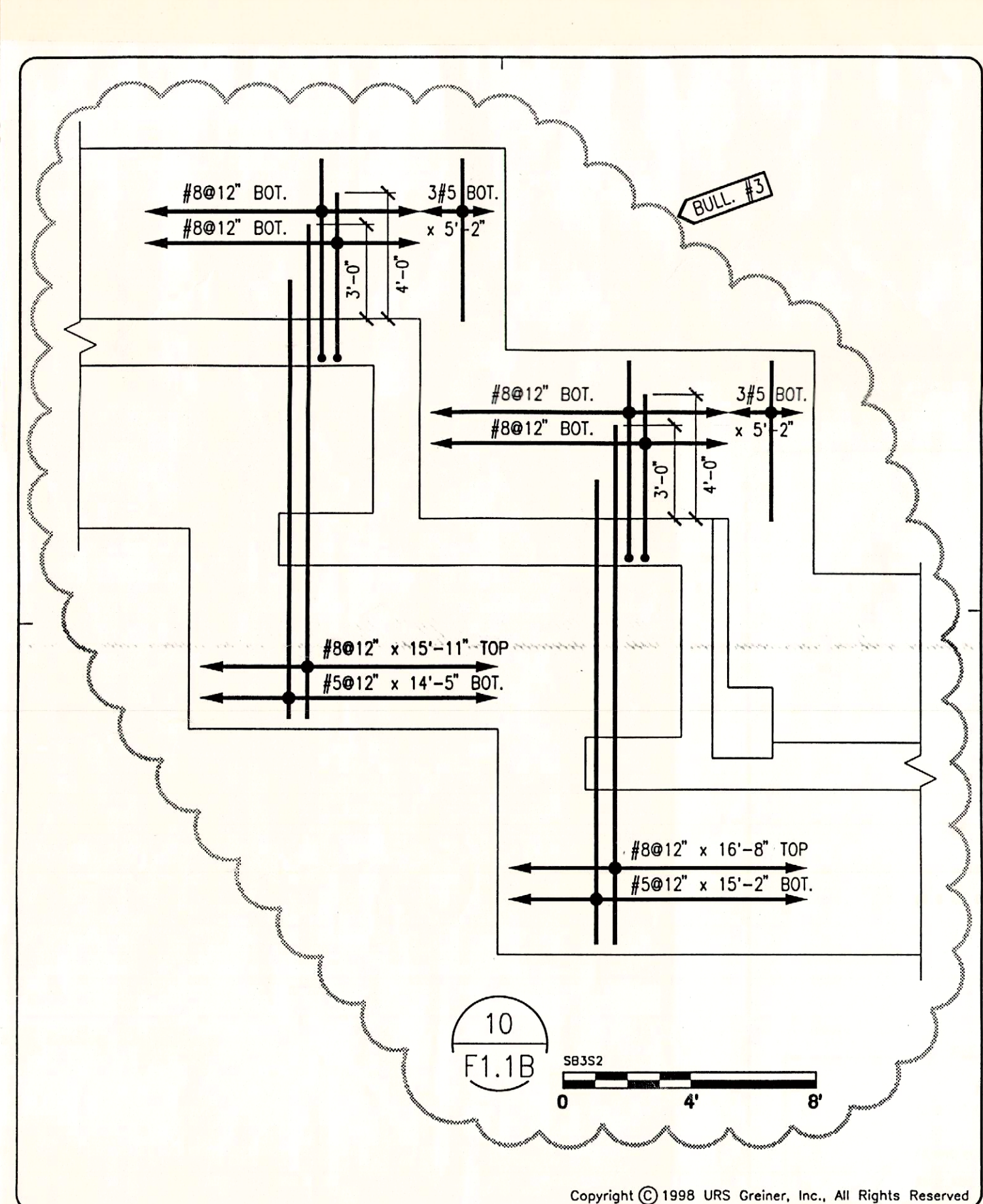
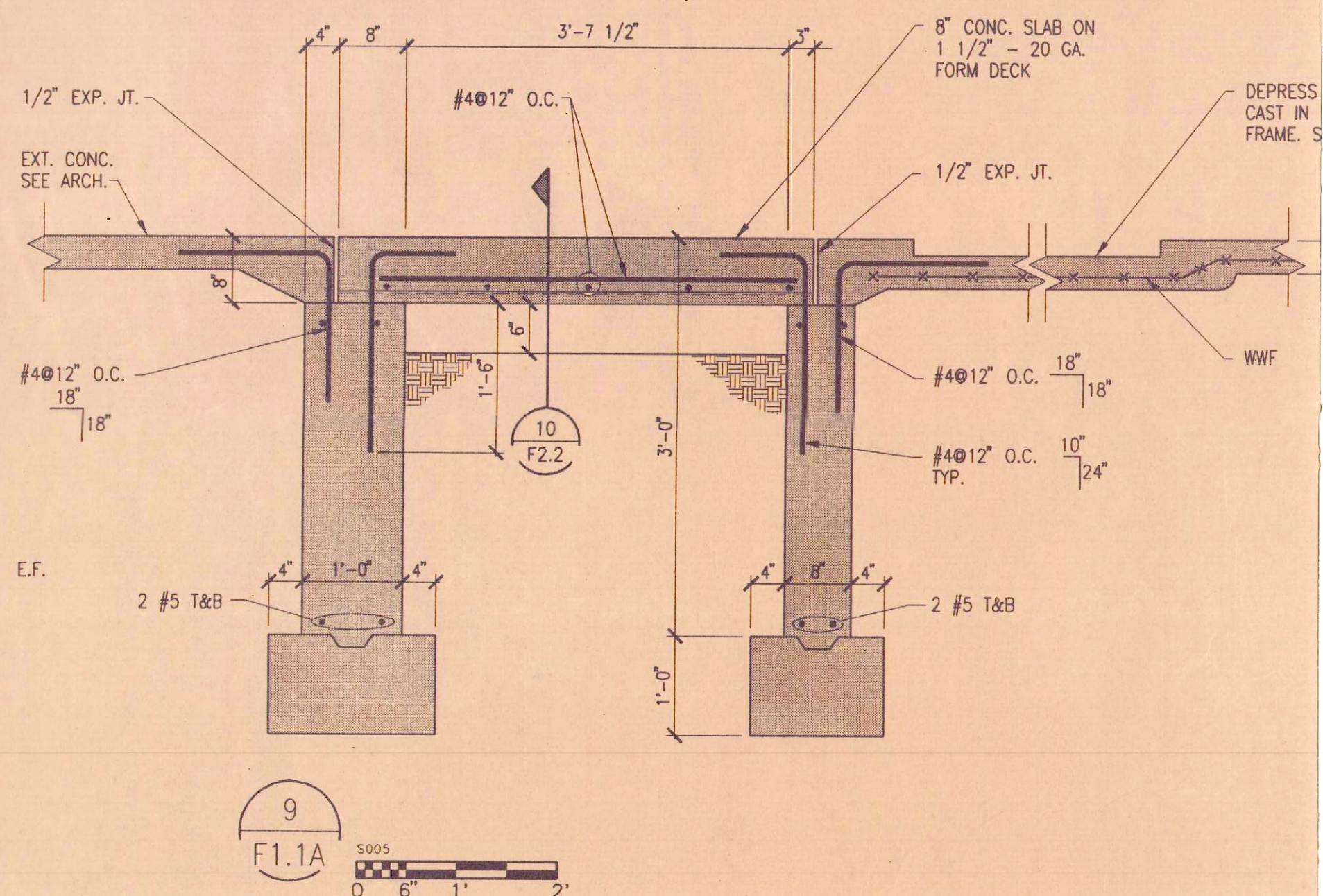
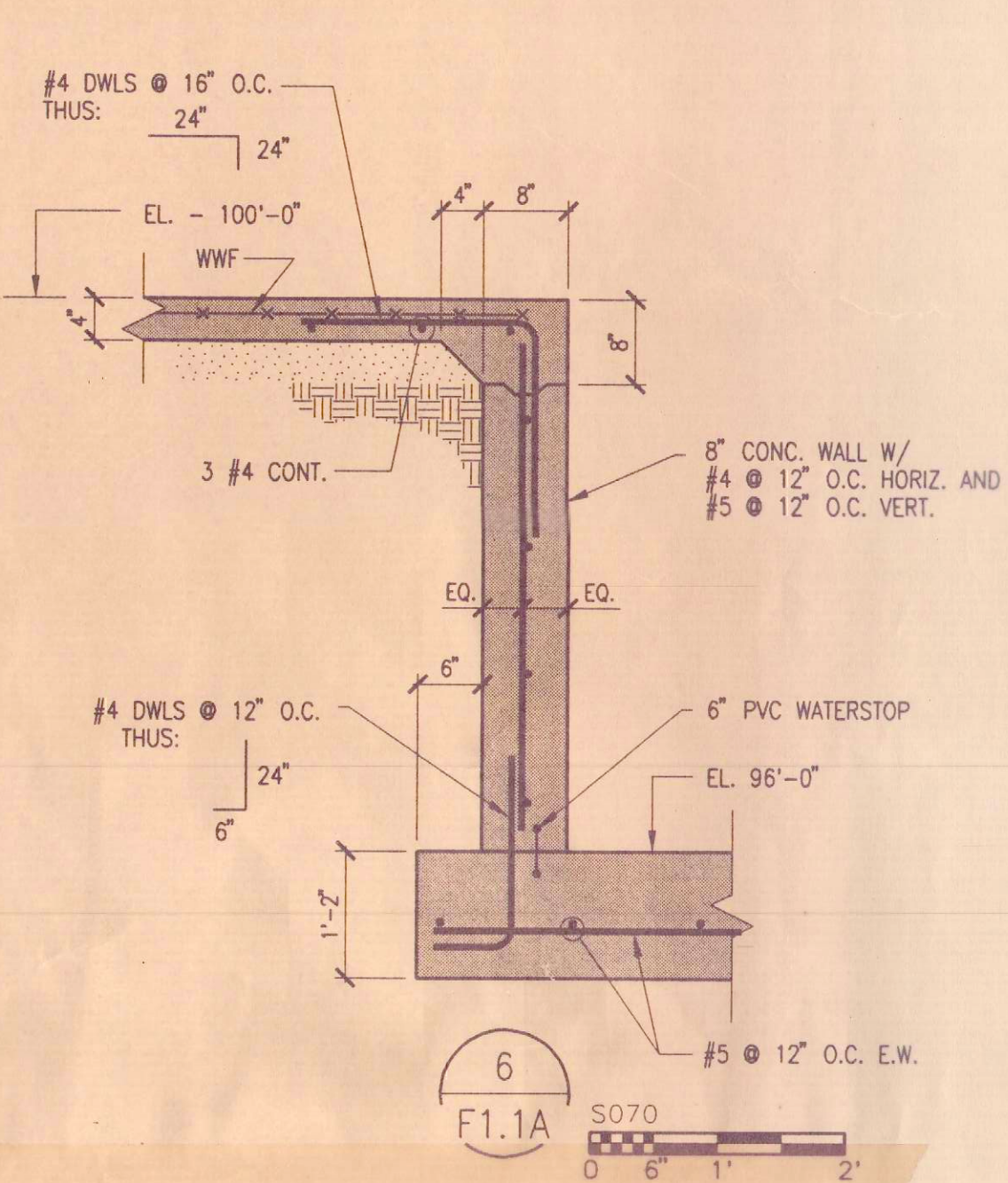
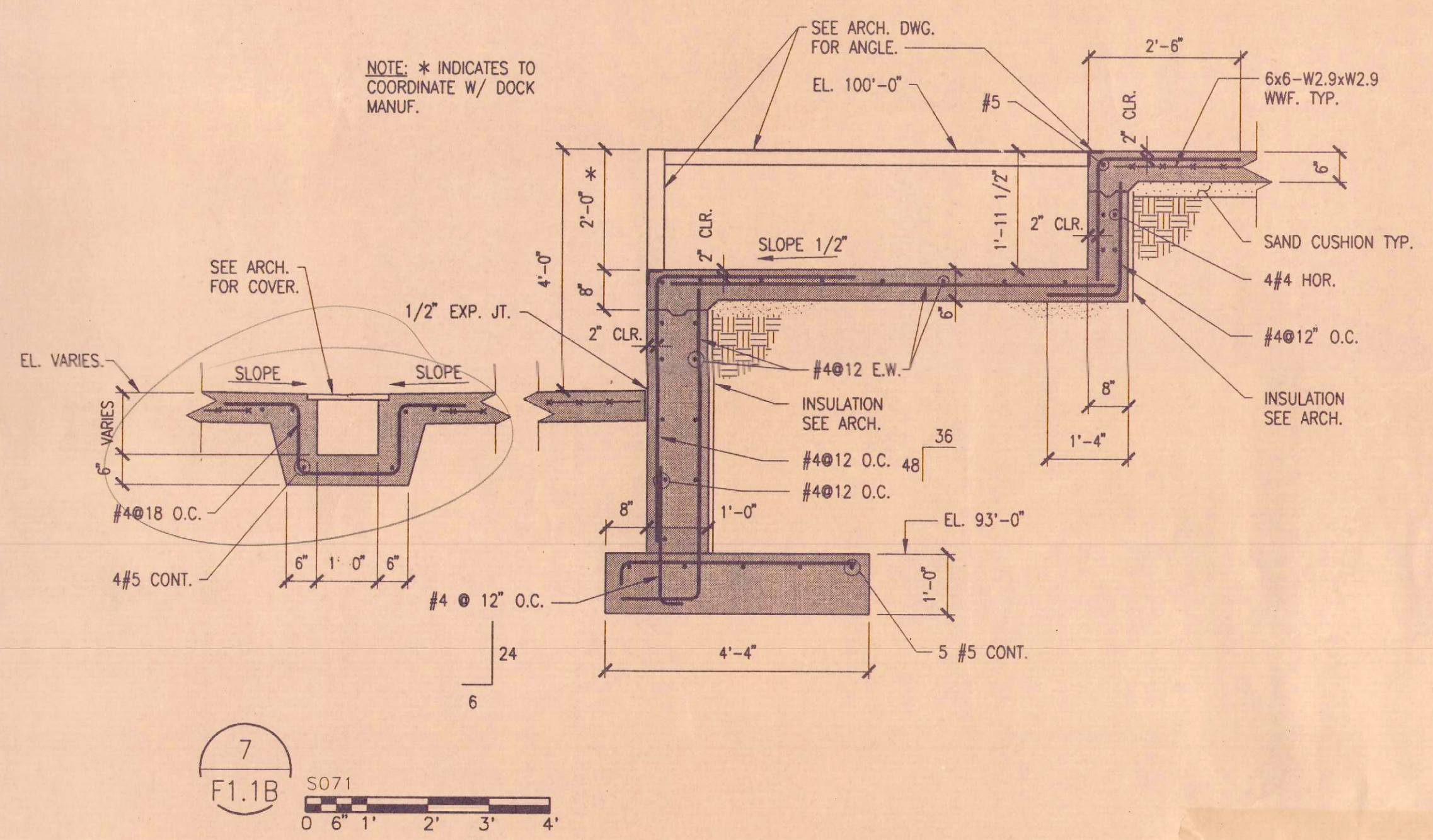
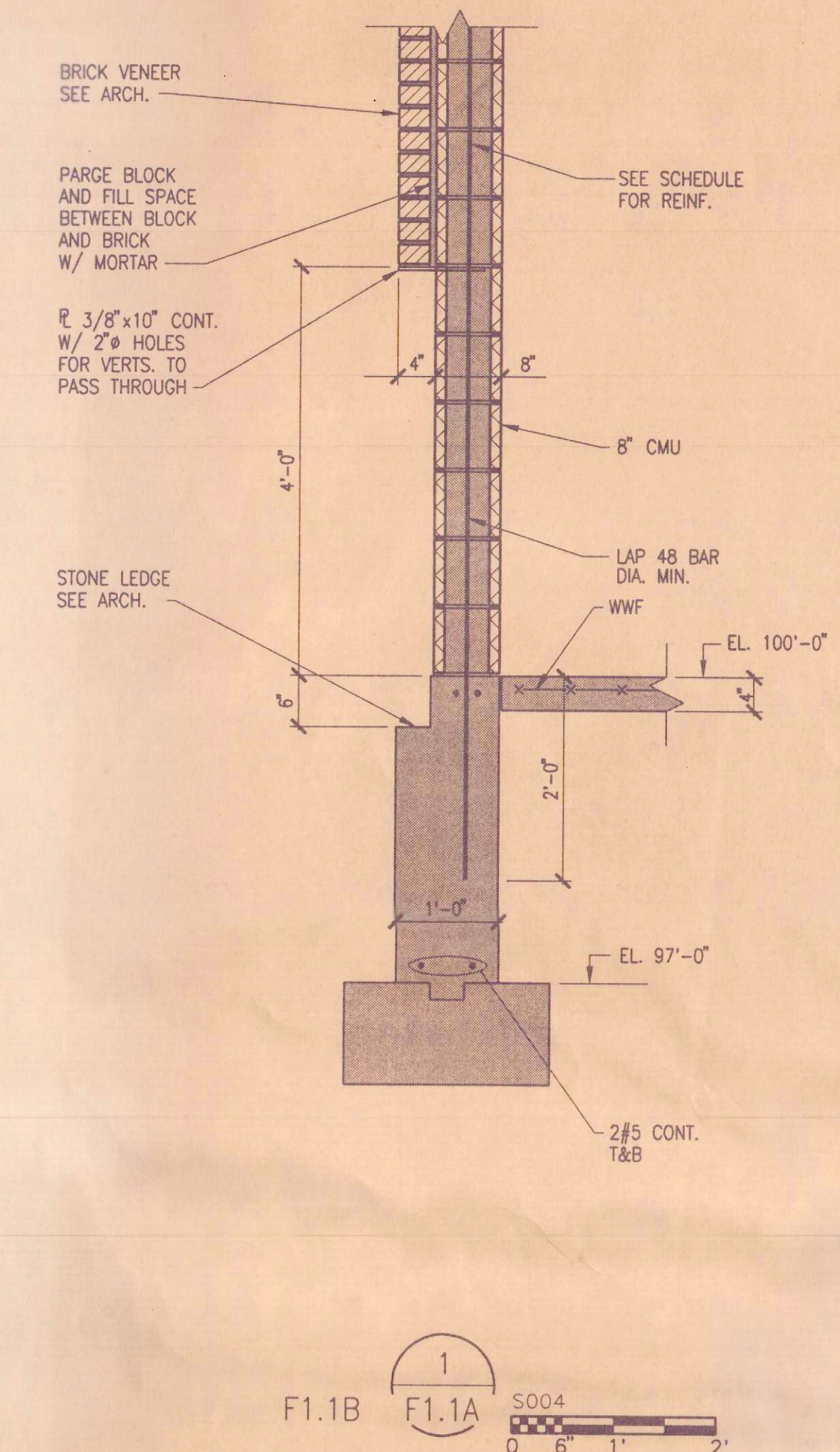
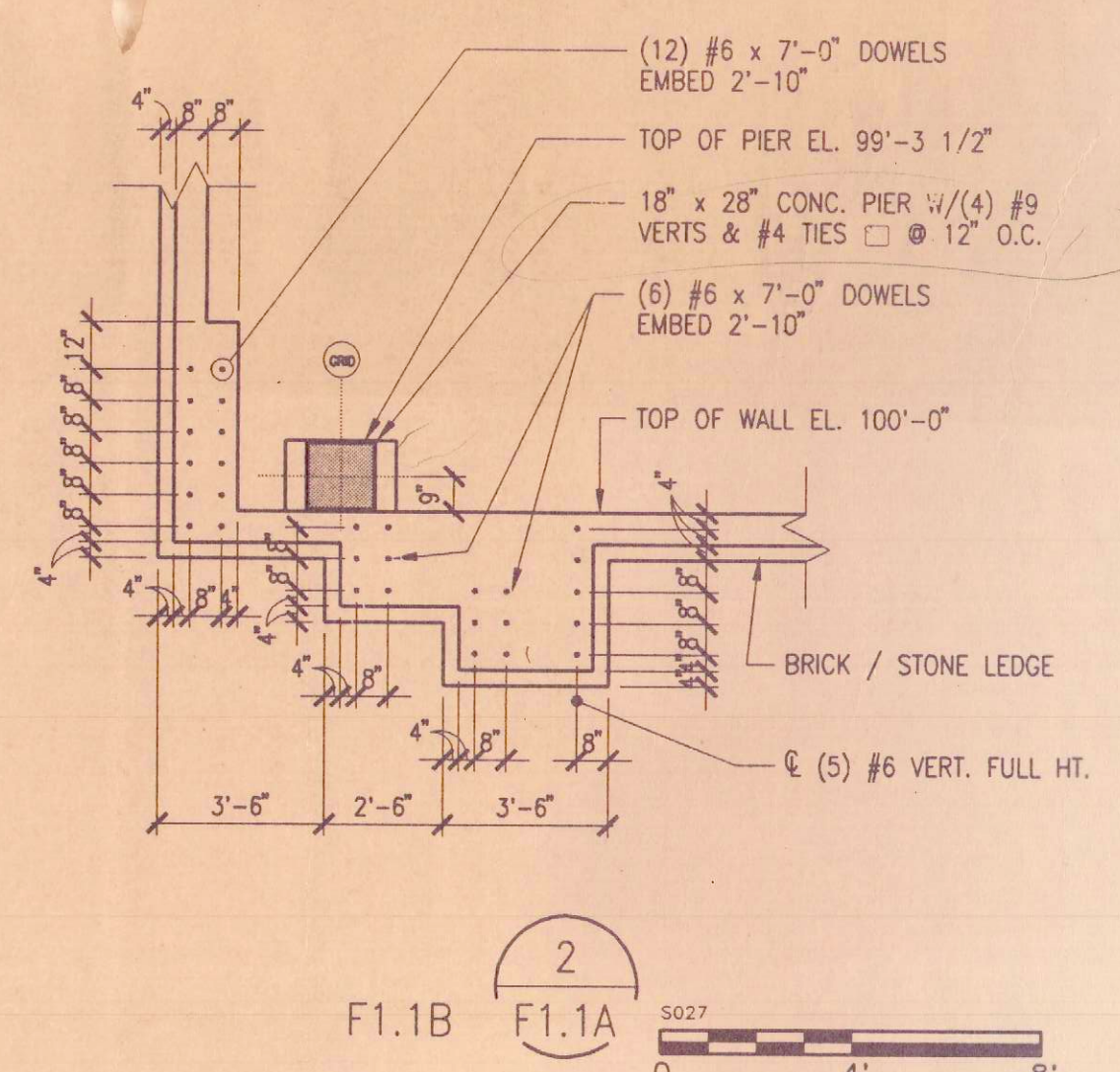
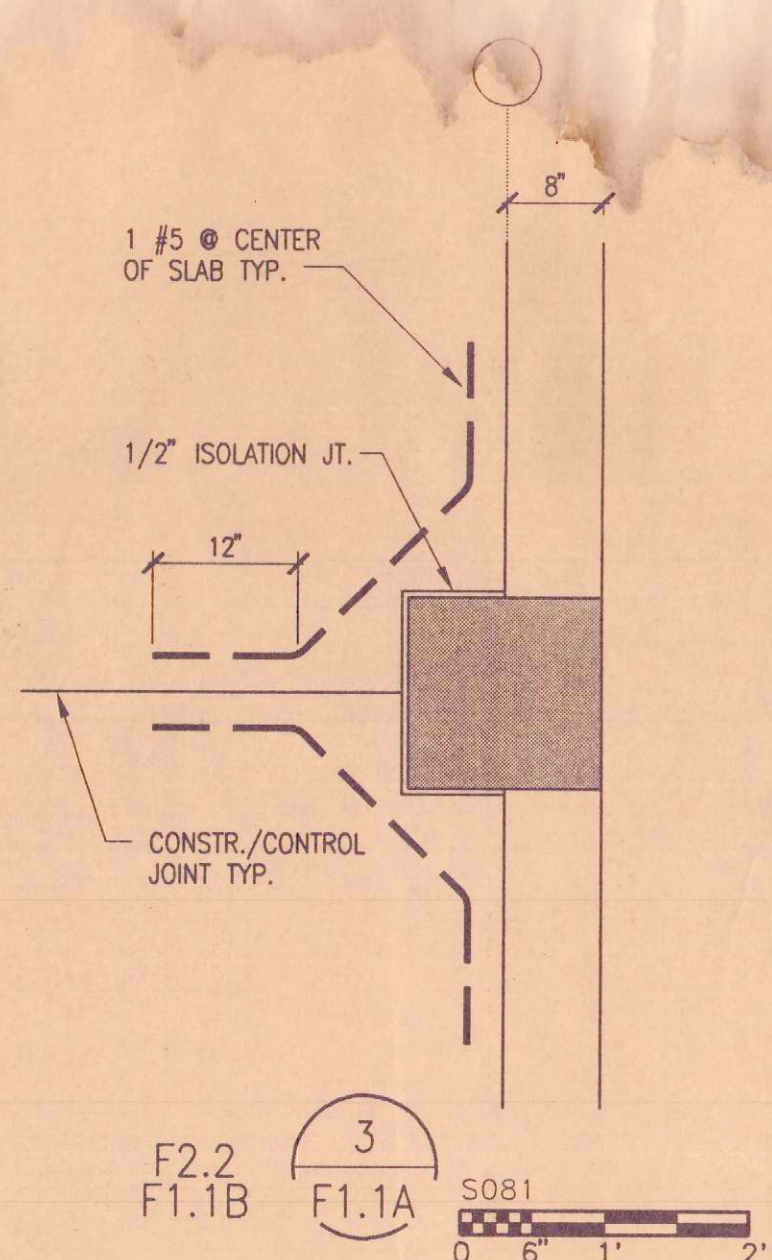
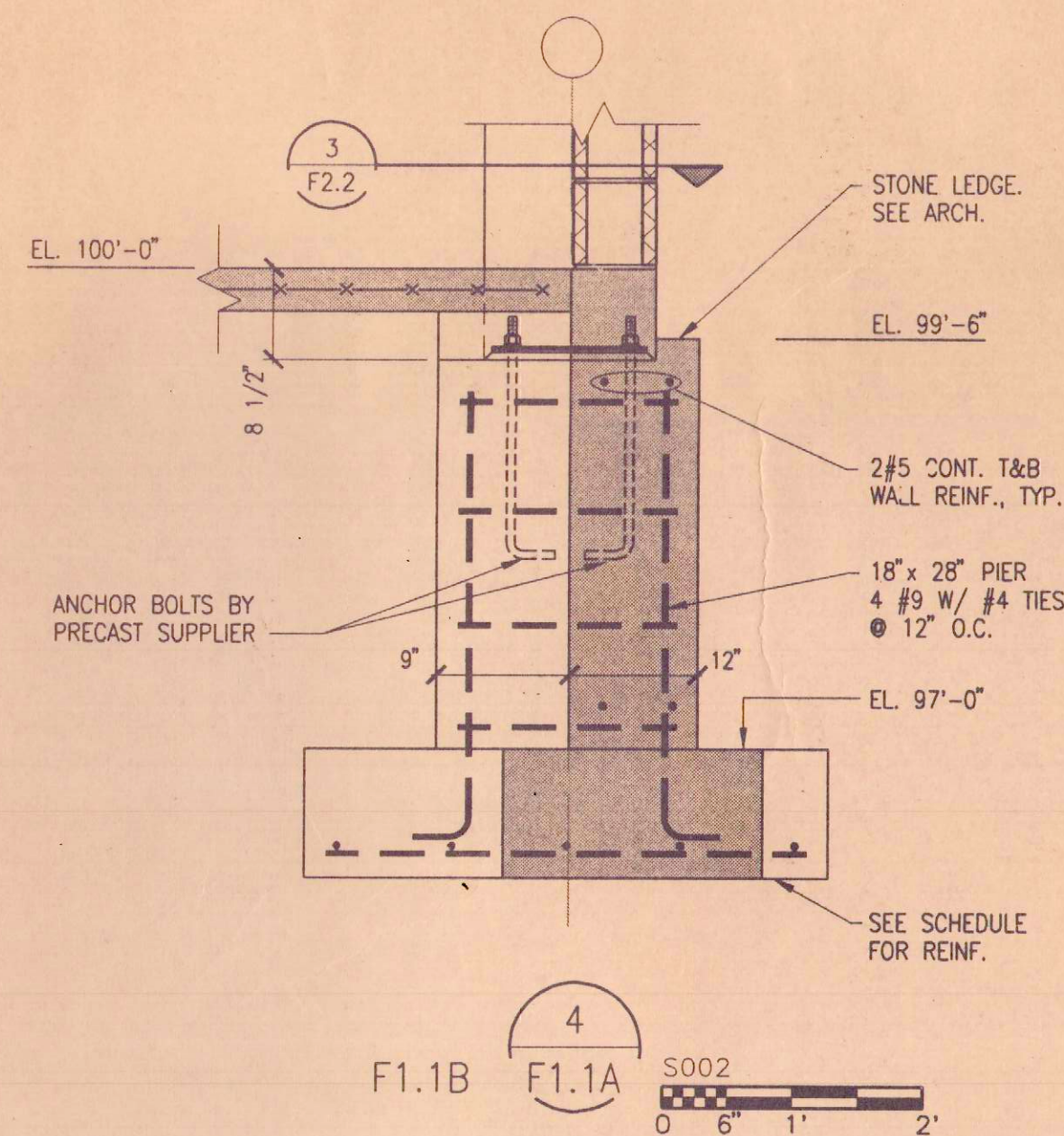
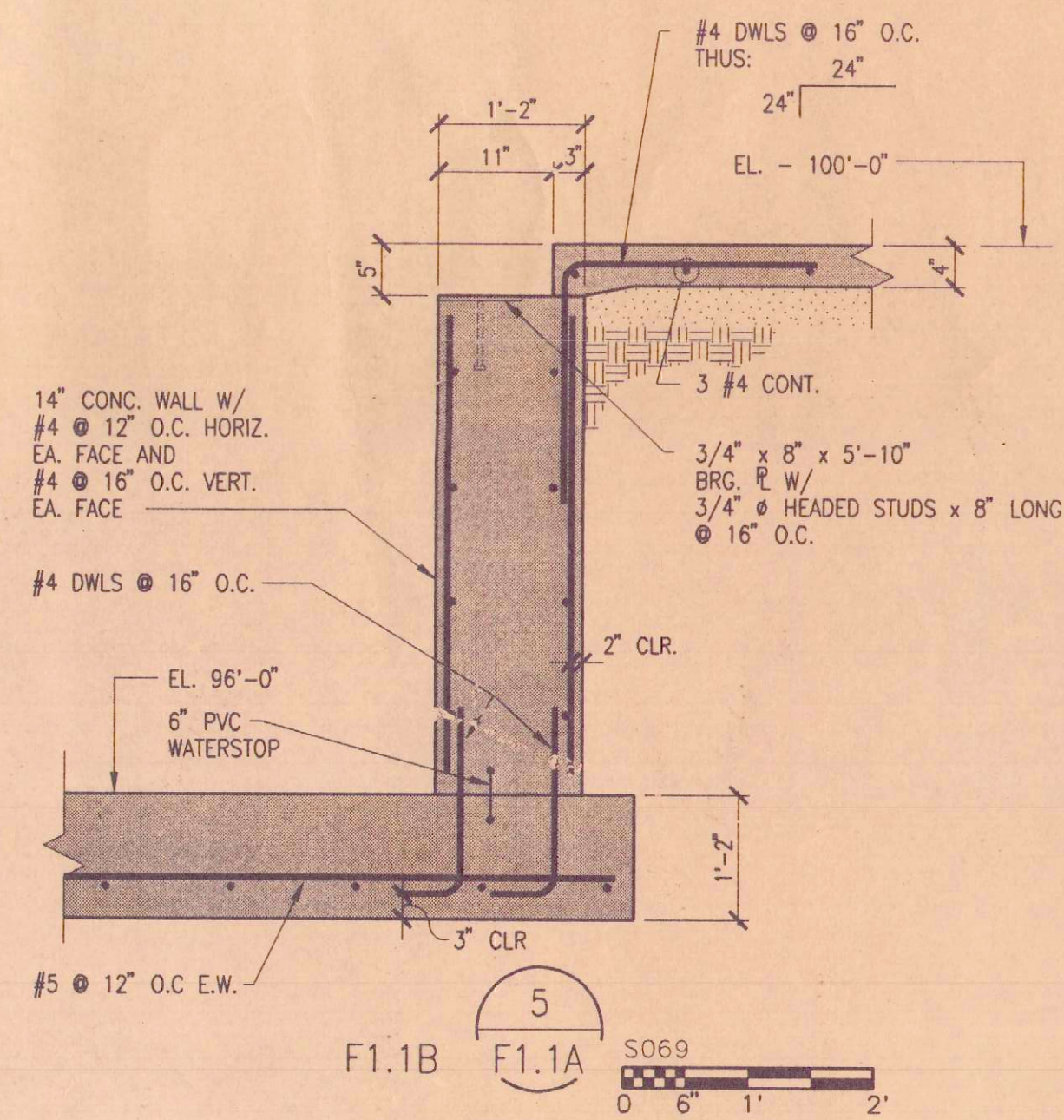
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2:41 pm on Apr 21, 98
XDuShane

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NOTES:
1. ALSO SEE MASONRY NOTES ON SHEET F2.3

SPREAD FOOTING SCHEDULE				
NET BEARING PRESSURE = 3,500 PSF				
MARK	SIZE	REINFORCEMENT		REMARKS
		LONGITUDINAL	TRANSVERSE	
F7.0	7'-0" x 7'-0" x 18"	#6#	#6#	
F7.5	7'-6" x 7'-6" x 19"	#6#	#6#	
F9.0	9'-0" x 9'-0" x 22"	10#6	10#6	
F9.5	9'-6" x 9'-6" x 24"	#9#	#9#	
F10.0	10'-0" x 10'-0" x 24"	10#7	10#7	
F10.5	10'-6" x 10'-6" x 24"	10#7	10#7	
F12.0	12'-0" x 12'-0" x 30"	11#8	11#8	
F12.0x10.0	12'-0" x 10'-0" x 24"	10#7	12#7	



TITLE HUDSON'S RIVERTOWN CROSSINGS
URS Greiner
GRAND RAPIDS, MI., FARMINGTON HILLS, MI., PETOSKEY, MI., INDIANAPOLIS, IN.

DATE 6-10-98
DR. MEH
CK. DWS
JOB NO. M102683
SKETCH NO. B3-S2

TITLE HUDSON'S RIVERTOWN CROSSINGS
URS Greiner
GRAND RAPIDS, MI., FARMINGTON HILLS, MI., PETOSKEY, MI., INDIANAPOLIS, IN.

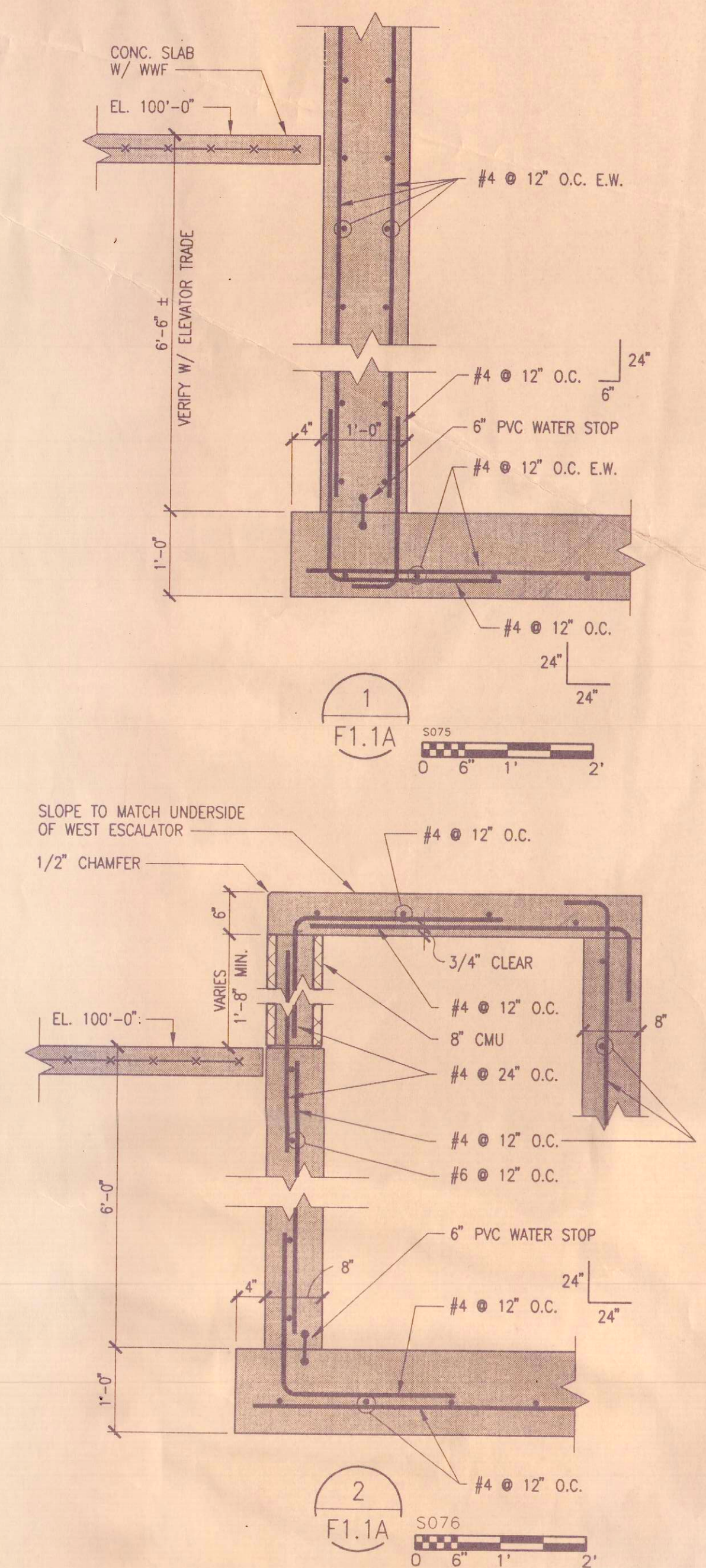
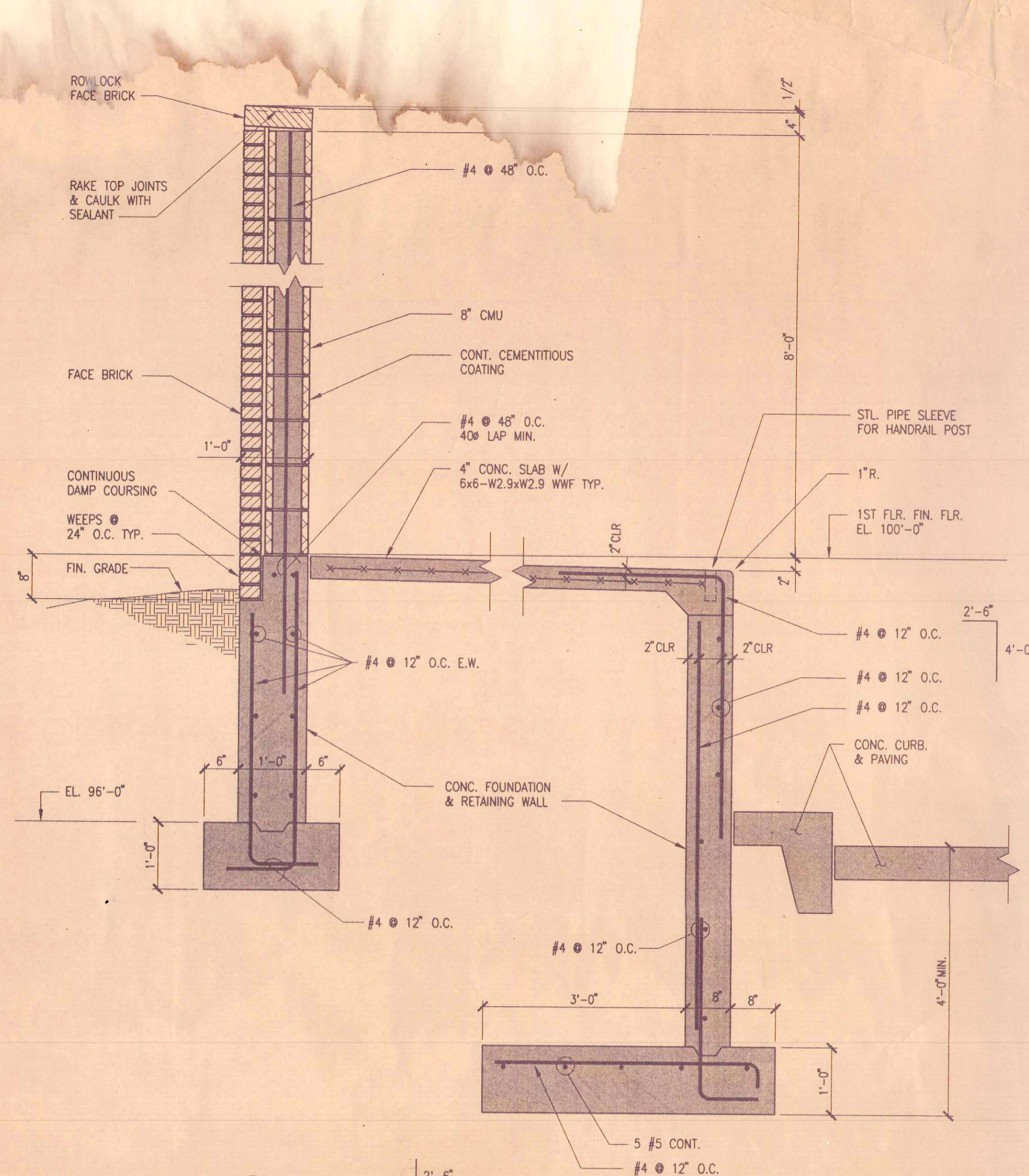
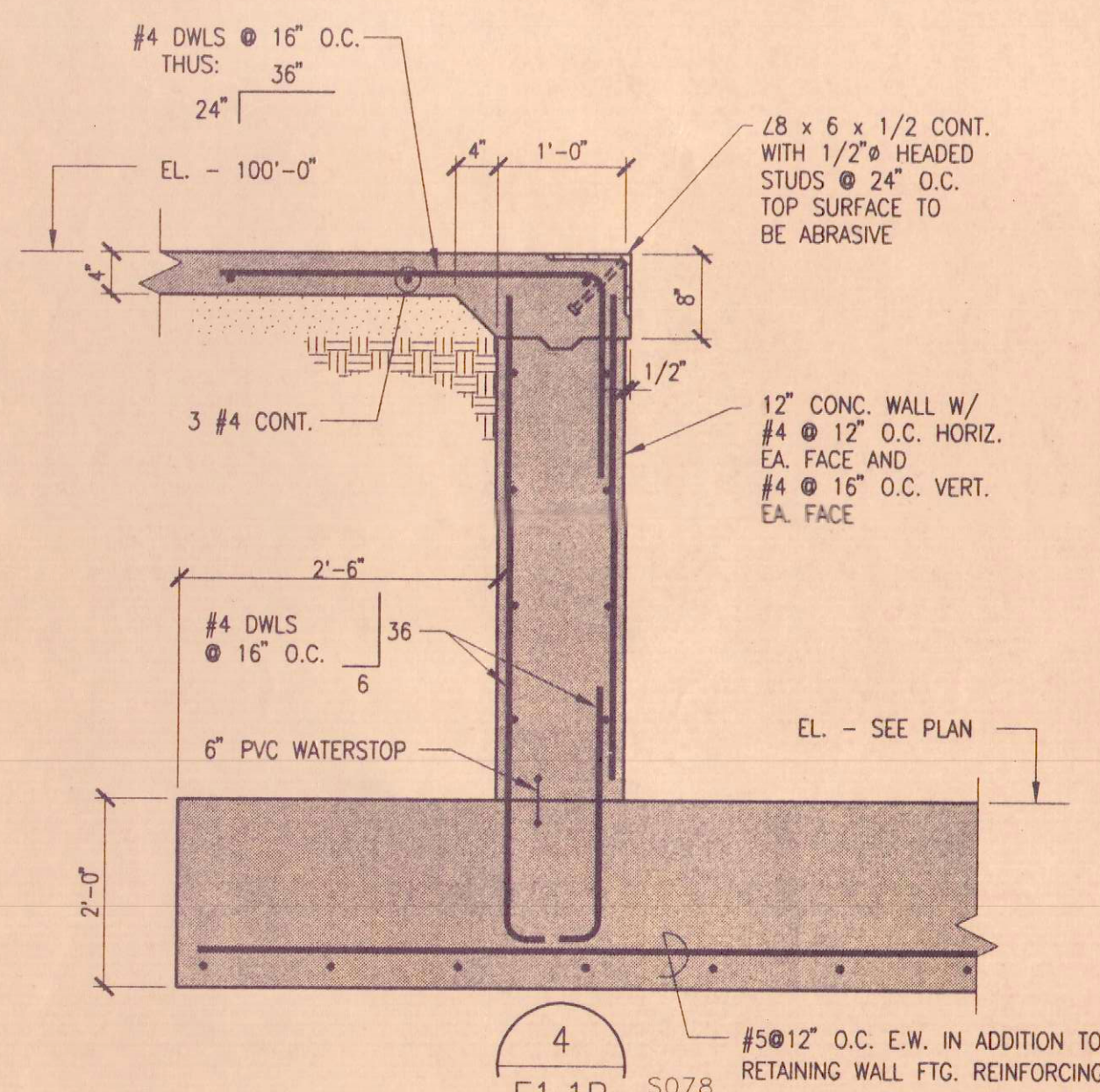
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SKETCH NO. B3-S3

URS Greiner
FARMINGTON HILLS, MI. PETOSKEY, MI. INDIANAPOLIS, IN.
(313) 333-3344 (313) 343-8103 (317) 636-7469

DATE	SL	IN CHARGE
DR	OK	APP
DES & CONSTRUCTION	ENGINEER'S DRAW	PROJECT TABULATION
2-2-98	1-25-98	1-27-97
ISSUED FOR	DATE	

HUDSON'S
Rivertown Crossings
Grandville, Michigan

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S074=\\SCT\3074.DWG
S070=\\SCT\3070.DWG
S071=\\SCT\3071.DWG
S005=\\SCT\3005.DWG
S002=\\SCT\3002.DWG
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S004=\\SCT\3004.DWG
B004P=\\UTL\G142.DWG
S027=\\SCT\3027.DWG
S081=\\SCT\3081.DWG
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FOUNDATIONS

1. FOOTING ELEVATIONS SHOWN ON PLAN ARE TO TOP OF FOOTINGS.
2. REFER TO CIVIL DRAWINGS FOR ROUGH GRADE ELEVATIONS.
3. DO NOT PLACE CONCRETE FOR FOOTINGS UNTIL BEARING CAPACITY IS VERIFIED BY OWNER'S GEOTECHNICAL ENGINEERING CONSULTANT.
4. OVER EXCAVATION OF SOIL FOR FOOTINGS SHALL BE REPLACED AND COMPACTED IN LAYERS, TO 95% OF MODIFIED PROCTOR.
5. WALL FOOTINGS SHALL BE STEPPED 1 VERTICAL TO 2 HORIZONTAL WHEN ELEVATIONS CHANGE UNLESS NOTED OTHERWISE ON DRAWINGS.
6. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A SLOPE GREATER THAN 1 VERTICAL TO 2 HORIZONTAL WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION UNLESS NOTED OTHERWISE ON THE DRAWINGS.
7. FOOTING CONCRETE SHALL NOT BE PLACED INTO AN EARTH-FORMED TRENCH.
8. FOUNDATION CONCRETE SHALL NOT BE PLACED ON FROZEN SOIL OR INTO AN EXCAVATION CONTAINING FREE WATER.
9. GRADE BEAMS AND COLUMNS SHALL BE PLACED MONOLITHIC.
10. DO NOT PLACE BACKFILL AGAINST RETAINING WALLS UNTIL CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.
11. BACKFILL FOUNDATION WALLS WITH EARTH ON BOTH SIDES OF WALL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 1'-6" FROM OTHER SIDE.
12. PROVIDE ASPHALTIC COATING ON ALL STEEL EXPOSED TO THE EARTH.
13. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.
14. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL FOUNDATION WORK NOT SHOWN ON STRUCTURAL DRAWINGS.
15. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
16. MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSIDERED BEARING WALLS. NON BEARING WALLS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS ONLY.
17. INTERIOR CONCRETE SLABS ON GRADE, UNLESS OTHERWISE NOTED, SHALL BE REINFORCED WITH WELDED WIRE FABRIC MATS AS FOLLOWS:
4" SLAB: 6' x 6' - W2.9 x W2.9
6" SLAB: 6' x 6' - W2.9 x W2.9
18. INTERIOR SLABS ON GRADE SHALL BE PLACED OVER VAPOR BARRIER. REFER TO SPECIFICATION FOR VAPOR BARRIER REQUIREMENTS.
19. INTERIOR SLAB ON GRADE CONTROL JOINTS SHALL BE SAW CUT IMMEDIATELY AFTER FINISHING USING A "SOFT-CUT" SAW MANUFACTURED BY SOFF-CUT INTERNATIONAL, RIVERSIDE, CALIFORNIA.
20. DEPRESS SLABS FOR FLOOR FINISHES SUCH AS CERAMIC TILE, QUARRY TILE, WOOD FLOORING, ETC. REFER TO DRAWINGS FOR LOCATION AND DEPTH REQUIREMENTS.
21. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PADS WHERE SHOWN ON ARCHITECTURAL DRAWINGS.
22. ELECTRIC CONDUIT AND OTHER PIPES EMBEDDED IN CONCRETE FLOOR SLABS SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF AC308-89, PARAGRAPH 6.7.
23. DOWEL CONCRETE WALL AND PIER VERTICAL REINFORCEMENT INTO FOOTINGS.
24. DOWEL MASONRY WALL REINFORCEMENT INTO CONCRETE SUPPORTS UNLESS NOTED OTHERWISE.
25. COORDINATE PLACEMENT OF ANCHOR BOLTS AND SLEEVES WITH FOUNDATION REINFORCEMENT.

CONCRETE

1. HEATING WILL NOT BE PERMITTED FOR BENDING OF REINFORCING STEEL.
2. MINIMUM CONCRETE COVER FOR STEEL REINFORCEMENT, UNLESS NOTED OTHERWISE:

UNFORMED SURFACE IN CONTACT WITH THE GROUND.	3 IN.
FORMED SURFACES EXPOSED TO EARTH OR WEATHER.	2 IN.
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: BEAMS, GIRDERS, AND COLUMNS SLABS, WALLS, AND JOISTS	1-1/2 IN. 3/4 IN.
3. MINIMUM CONCRETE COVER FOR ANCHOR BOLTS: 3 IN.
4. LAP CONTINUOUS CONCRETE REINFORCING BARS 30 DIAMETERS, UNLESS OTHERWISE NOTED. ALL OTHER LAP SPLICES SHALL BE IN ACCORDANCE WITH AC1189-89.
5. PROVIDE CORNER BARS FOR ALL HORIZONTAL REINFORCEMENT. EXTEND HORIZONTAL WALL REINFORCEMENT THROUGH PIERS.
6. BAR SUPPORTS AND SPACERS RESTING ON SURFACES TO BE LEFT EXPOSED SHALL BE PLASTIC TIEED OR STAINLESS STEEL.
7. ALL CONSTRUCTION JOINTS WILL BE KEYS.
8. WHEN A CONSTRUCTION JOINT IN A WALL OR SLAB IS MADE, THE SURFACE OF THE CONCRETE SHALL BE WIRE BRUSHED AND THOROUGHLY CLEANED WITH ALL DIRT/DEBRIS REMOVED. ALL JOINTS SHALL BE THOROUGHLY WETTED AND SLUSHED WITH A COAT OF NEAT CEMENT GROUT IMMEDIATELY BEFORE PLACING NEW CONCRETE.
9. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSIONS OF PADS, DEPRESSIONS, OPENINGS, SLEEVES, DRAINS, INSERTS, ANCHORS, HANGERS, MISCELLANEOUS IRON, CHASES, CONDOLITS, FLOOR FILLS, FINISHES, CURBS, STONE AND MASONRY DETAILS AND OTHER DETAILS RELATED TO CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS.
10. REINFORCEMENT INTERRUPTED BY OPENINGS IN SLABS AND WALLS SHALL BE REPLACED BY AN EQUAL NUMBER OF ADDITIONAL BARS, OF THE SAME SIZE, OR BY AN EQUIVALENT OPENING. AS A MINIMUM, PROVIDE 2-#5 BARS, WITH 2'-0" PROJECTION BEYOND OPENING, FOR EACH 8" OF SLAB OR WALL THICKNESS. ALSO PROVIDE 2-#5 X 4'-0" DIAGONALLY AT EACH CORNER.
11. PROVIDE DIAGONAL REINFORCEMENT ON EACH SIDE OF OPENINGS, OR RE-ENTRANT CORNERS IN SLABS AS FOLLOWS: 1 #5 X 3'-4" BAR FOR EACH 4" INCHES OF SLAB THICKNESS.
12. CHAMFER 3/4" X 45 DEGREES EXPOSED EDGES OF CONCRETE WALLS, COLUMNS, PIERS, PILASTERS, ETC.
13. OPENINGS SHALL NOT BE MADE IN ANY STRUCTURAL MEMBER WITHOUT APPROVAL FROM THE ARCHITECT, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
14. SLEEVES SHALL NOT BE PLACED HORIZONTALLY OR VERTICALLY IN BEAMS OR JOISTS WITHOUT APPROVAL FROM THE ARCHITECT, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
15. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.
16. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS.

MASONRY

1. ALL WALLS SHALL BE REINFORCED WITH JOINT REINFORCEMENT AT 16" ON CENTS, UNLESS OTHERWISE NOTED.
2. REINFORCE BOND BEAMS WITH 2-#5 CONTINUOUS, UNLESS OTHERWISE NOTED. PROVIDE CORNER BARS AT ALL BOND BEAM REINFORCEMENT.
3. ALL LAPPED BAR REINFORCEMENT SPLICES SHALL BE 48 BAR DIAMETERS.
4. VERTICAL REINFORCEMENT SHALL BE CENTERED IN CELLS OF MASONRY UNIT, UNLESS OTHERWISE NOTED.
5. IN ADDITION TO SPACING INDICATED IN SCHEDULE PROVIDE VERTICAL BARS AT ALL CORNERS, ENDS, JAMBS, INTERSECTIONS AND BOTH SIDES OF CONTROL JOINTS.
6. BAR POSITIONERS SHALL BE USED TO HOLD VERTICAL AND BOND BEAM REINFORCEMENT IN PROPER ALIGNMENT.
7. VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS OR 10 FEET.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS.
9. AT VERTICAL CONTROL JOINTS, JOINT REINFORCEMENT SHALL BE DISCONTINUOUS. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS.
10. FILL THE FOLLOWING WITH 2000 PSI MASONRY GROUT:
 - a. ALL CELLS CONTAINING VERTICAL REINFORCEMENT.
 - b. ALL CELLS BELOW GRADE.
 - c. ALL CELLS BELOW BEAM AND LINTEL BEARING POINTS DOWN TO CONCRETE FOUNDATION WALL OR FOOTING.
 - d. ALL BOND BEAMS.
 - e. ALL CELLS OF THE BLOCK COURSE IMMEDIATELY ABOVE LINTELS.
11. PROVIDE SOLID GROUTED MASONRY AROUND BEARING ENDS OF ALL BEAMS.
12. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE IT MAY BE SLOPED, BUT NOT MORE THAN ONE HORIZONTAL TO SIX VERTICAL.
13. A REINFORCING BAR MAY BE CONSIDERED TO BE IN VERTICAL ALIGNMENT WHEN IT IS WITHIN 4" OF AN ADJACENT BAR OR DOWEL, EVEN THOUGH IT IS IN AN ADJACENT CELL.
14. REINFORCING STEEL BARS SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
15. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4 INCH FROM THE MASONRY SURFACE AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS.
16. VERTICAL CELLS TO BE GROUTED SHALL HAVE VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 1/2"x 3".
17. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE TO FORM A KEY AT THE POUR JOINT.
18. ALL BOLTS, ANCHORS, ETC., INSERTED INTO WALLS, SHALL BE GROUTED SOLID INTO POSITION.
19. MASONRY WALLS SHALL NOT BE CONSTRUCTED ON SUPPORTED CONCRETE SLABS UNTIL CONCRETE HAS REACHED 28-DAY STRENGTH AND ALL SHORING HAS BEEN REMOVED.
20. NO CHASES, RISERS, CONDUITS OR TOOTHING OF MASONRY SHALL OCCUR IN MASONRY WALLS WITHIN 18 INCHES OF BEAM BEARING CENTERLINE.
21. REFER TO LINTEL SCHEDULE FOR LINTELS OVER OPENINGS IN MASONRY. WALLS SUCH AS DUCTS, RECESSES FOR CONNECTORS, DRINKING FOUNTAINS, FIRE EXTINGUISHERS, ETC. UNLESS OTHERWISE NOTED.
22. REINFORCED MASONRY WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS.
23. ALL BLOCK AND BRICK BUILDING WALLS SHALL HAVE THE SPACE BETWEEN THE BLOCK AND BRICK FILLED SOLID WITH MORTAR.