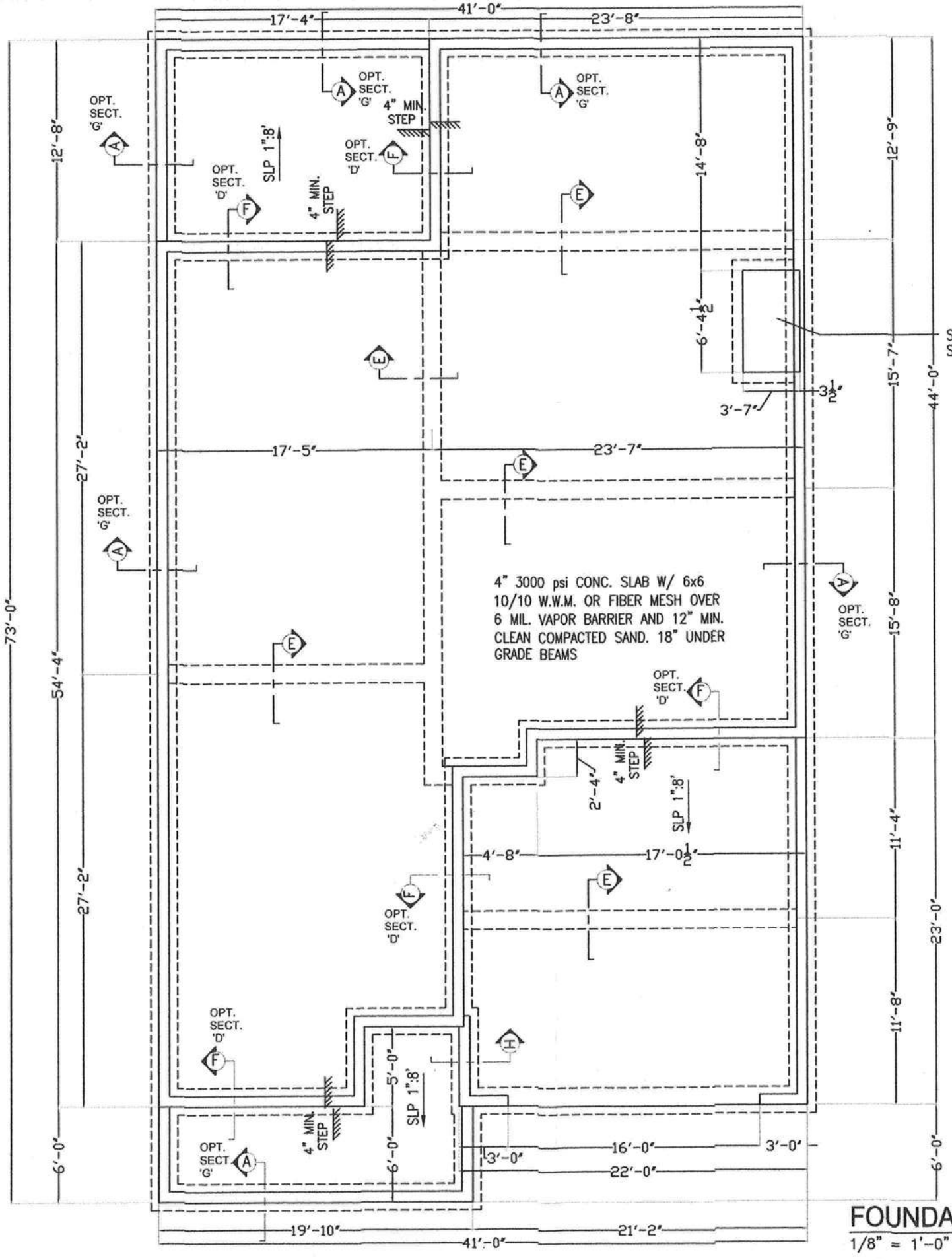


FOUNDATION PLAN

1/8" = 1'-0"

NOTE:

INTERIOR LOAD CONDITIONS SHALL BE VERIFIED WITH TRUSS MANUFACTURER. ADDITIONAL INTERIOR GRADE BEAMS AS PER SECTION "E' SHALL BE REQUIRED UNDER ANY LOAD BEARING WALLS OR COLUMNS. GRADE BEAMS SHALL TIE INTO AND BE POURED CONTINUOUS WITH ADAJACENT GRADE BEAMS AND/OR OUTER EDGE OF SLAB.

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS FOR FOUNDATION PLAN PRIOR TO CONSTRUCTION

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS FOR FOUNDATION PLAN PRIOR TO CONSTRUCTION

VERIFY OPTIONAL SECTIONS "D" & "G" WITH CONTRACTOR

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

R. MICHAEL LATIMER
LICENSE
NO. 41970
STATE OF FLORIDA
PROFESSIONAL ENGINEER

4/24/20

R. MICHAEL LATIMER, P.E.
LICENSE #41970
DEC ENGINEERING INC.

DEC Engineering, Inc.
Civil Engineering
2236 Capital Circle NE Ste 202 Tallahassee, Florida 32308
Phone: (850) 385-5288
Email: info@decengrs.com State Certification #4244

PROJECT: 1995 - Lot 99, The Preserves @ Laurel Lake
TITLE: Foundation Plan
SCALE: 1/8"=1'-0" CLIENT: Aaron Simque Homes

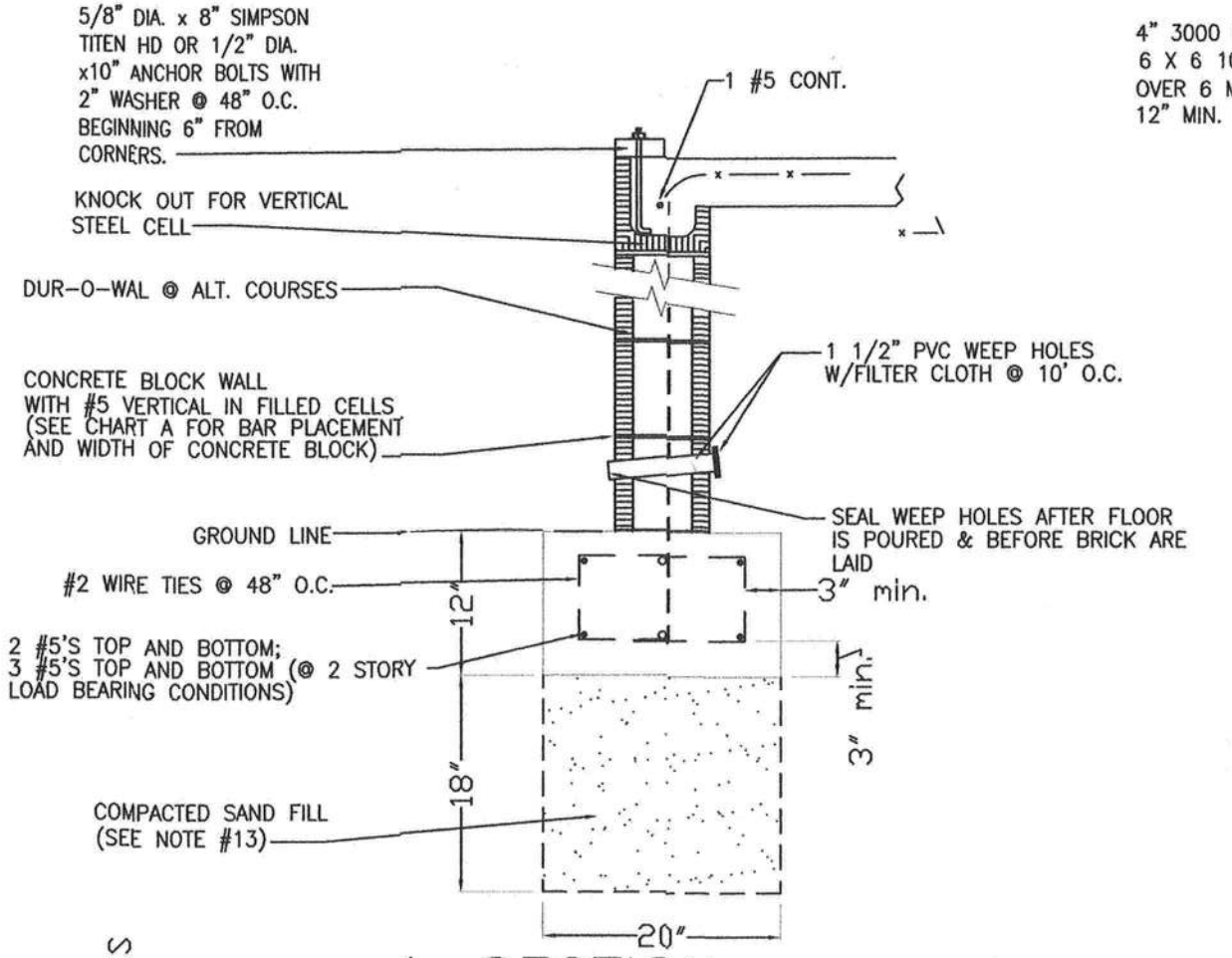
Revised by:	Date:	Description:

File Name:	
Designed:	D.A.W.
Drawn:	D.A.W.
Checked:	R.M.L.
Date:	4/20/20

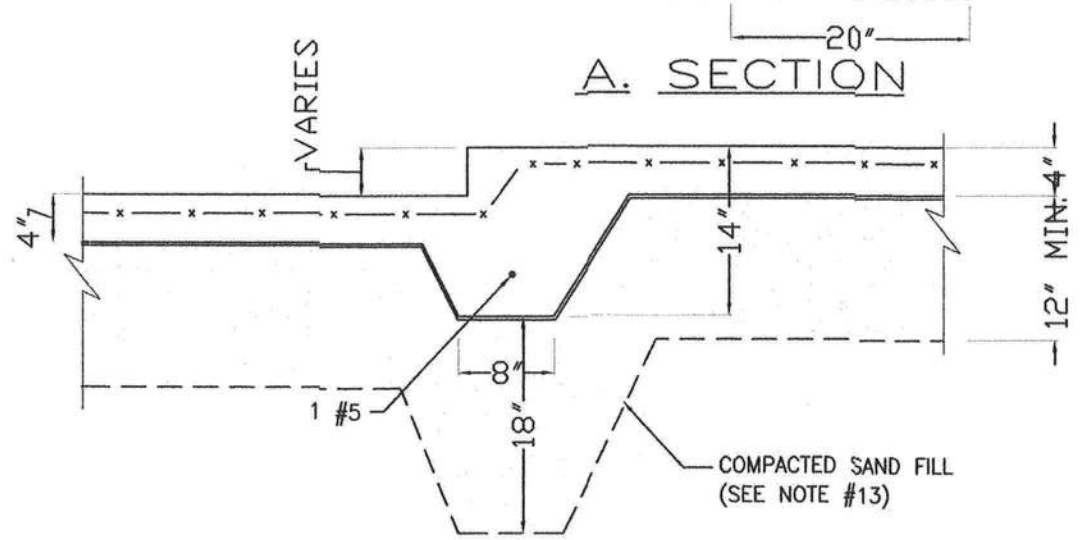
Sheet 1 of 4

NO. 19D-0127

Apr 24, 2020 - 2:32pm



A. SECTION



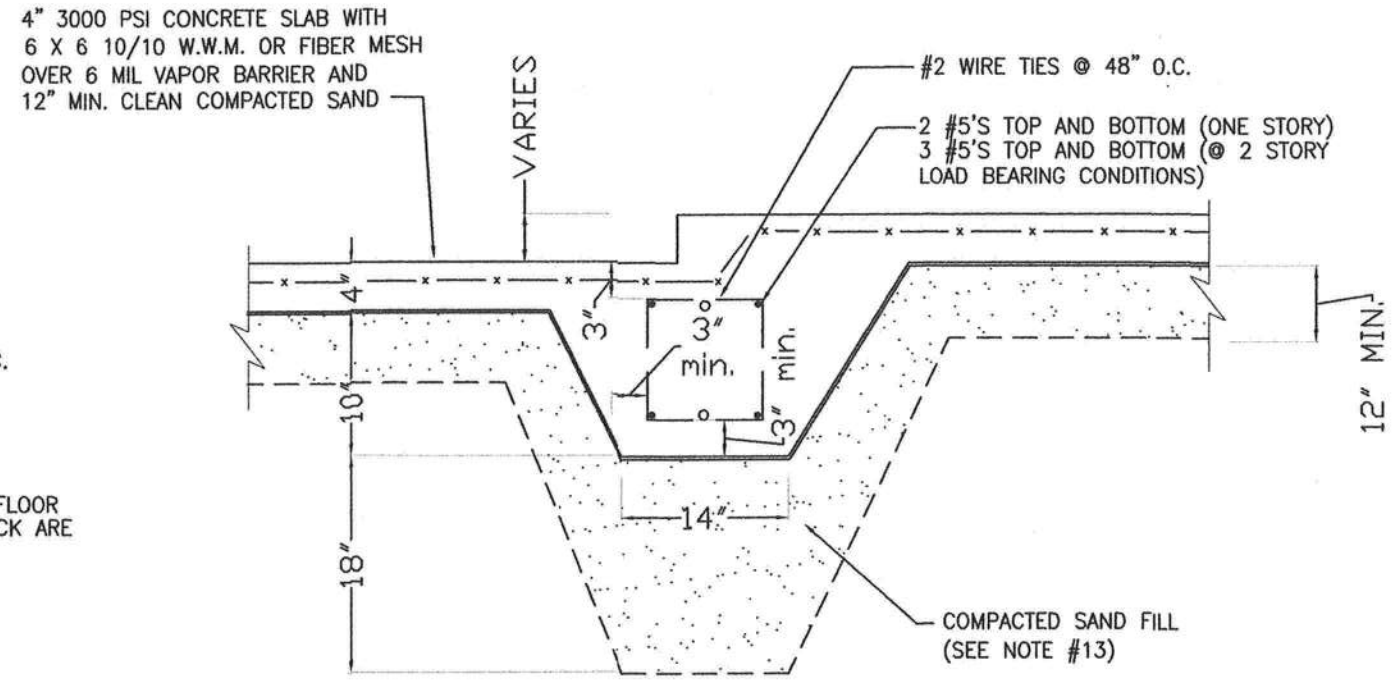
B. STEP-DOWN @ SHOWER DETAIL

All steel connectors, anchors and fasteners to be in direct contact with pressure-treated woods are to be as a minimum:

Standard galavanized coating, 0.90 oz of zink per square foot of surface area (per ASTM A653)

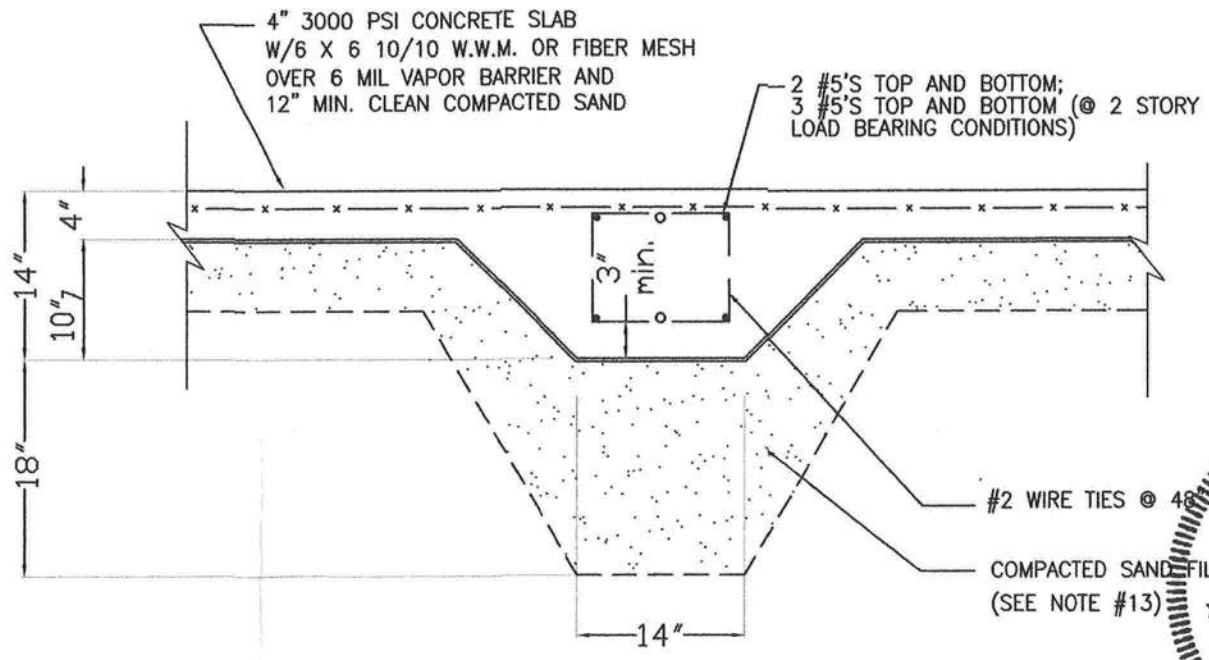
Hot-dip galvanized after fabrication at 2.0 oz per square foot of surface area (per ASTM A123)

Stainless steel (Type 316L) or equal.



D. STEP-DOWN DETAIL

NOTE: WHERE USED WITH BLOCK STEM, INTERIOR GRADE BEAM SHALL BE TIED TO PERIMETER WALL/FOOTER BY TURNING 2 OF THE SHOWN #5 BARS DOWN THROUGH FILLED CELLS AND INTO PERIMETER FOOTER.



E. TYPICAL INTERIOR GRADE BEAM

NOTE: WHERE USED WITH BLOCK STEM, INTERIOR GRADE BEAM SHALL BE TIED TO PERIMETER WALL/FOOTER BY TURNING 2 OF THE SHOWN #5 BARS DOWN THROUGH FILLED CELLS AND INTO PERIMETER FOOTER.

DEC Engineering, Inc.
Civil Engineering
2236 Capital Circle NE Ste 202 Tallahassee, Florida 32308
Phone: (850) 385-5288
Email: info@decengrs.com State Certification #4244

PROJECT: 1995 Model 99, The Preserves @ Laurel Lake
TITLE: Foundation Details
SCALE: 3/4"=1'-0"
CLIENT: Aaron Simque Homes

Revised by:	Date:	Description:

File Name:	
Designed:	D.A.W.
Drawn:	D.A.W.
Checked:	R.M.L.
Date:	4/20/20

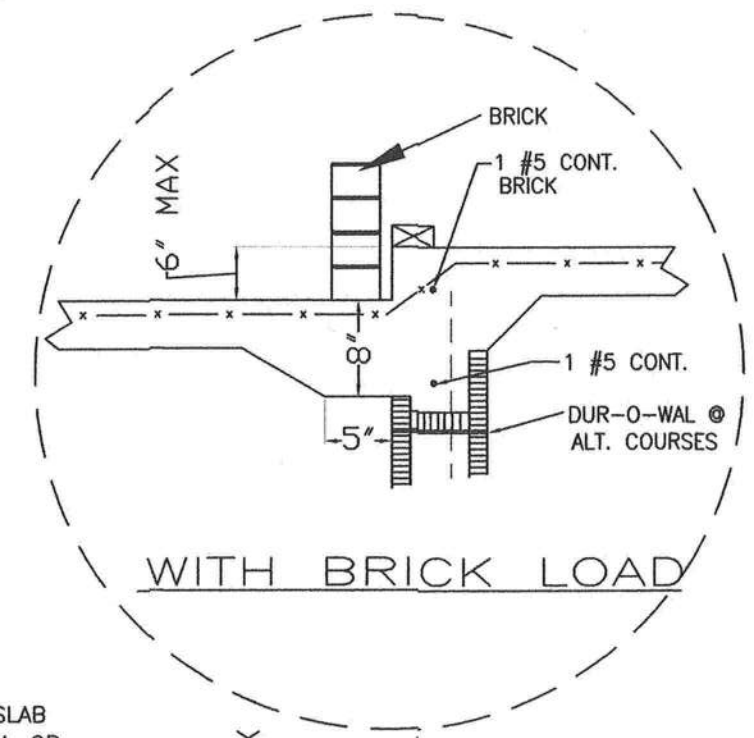
Sheet 2 of 4

NO. 19D-0127

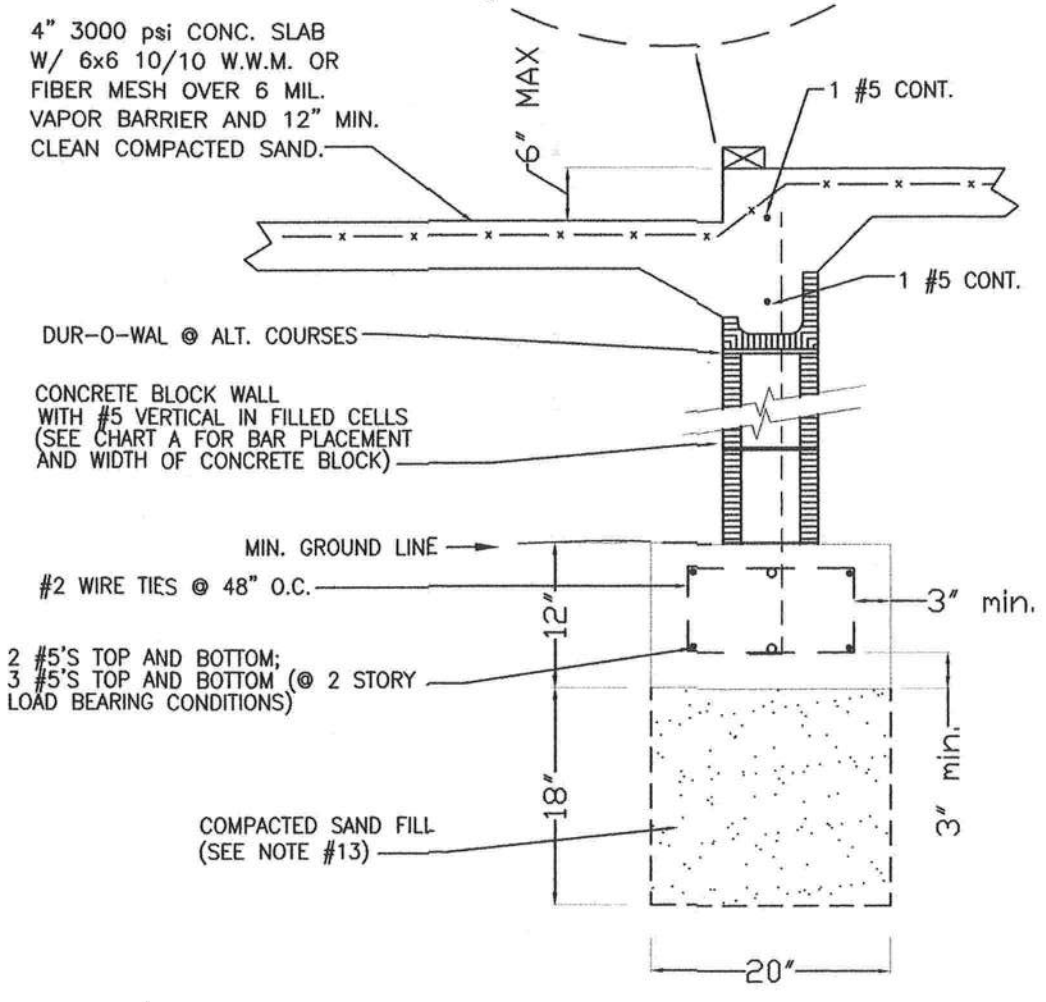
R. MICHAEL LATIMER LICENSE NO. 41970 STATE OF FLORIDA PROFESSIONAL ENGINEER

R. MICHAEL LATIMER, P.E.
LICENSE #41970
DEC ENGINEERING INC.

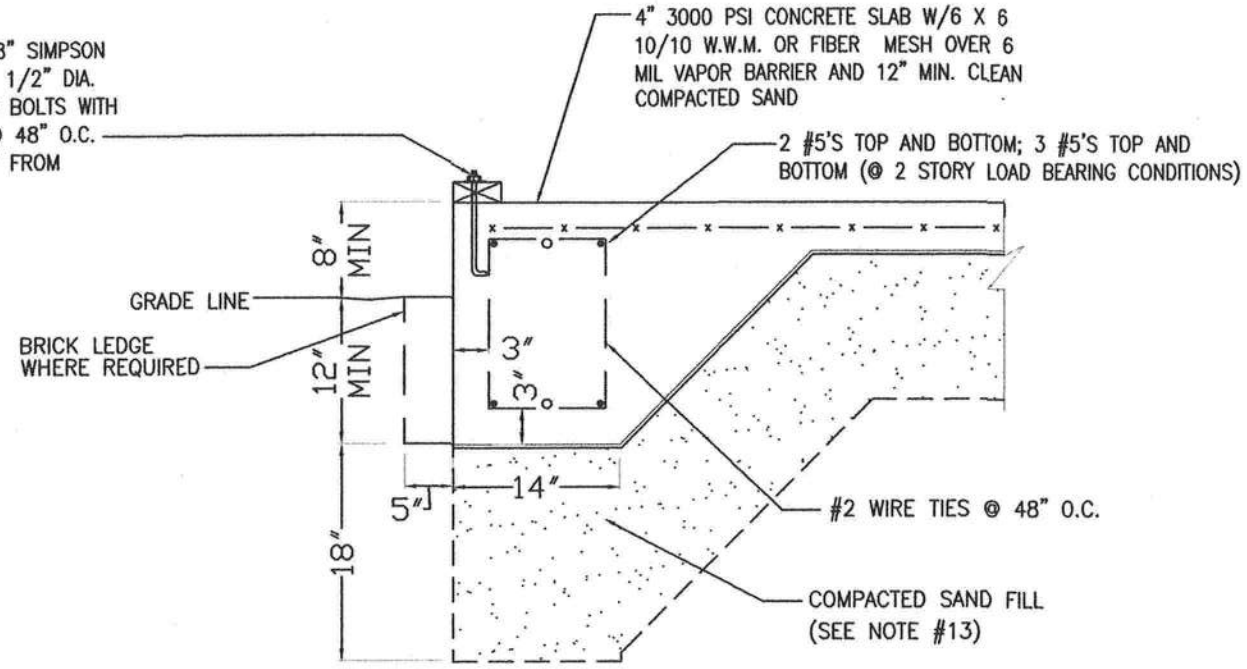
Apr 24, 2020 - 2:08pm



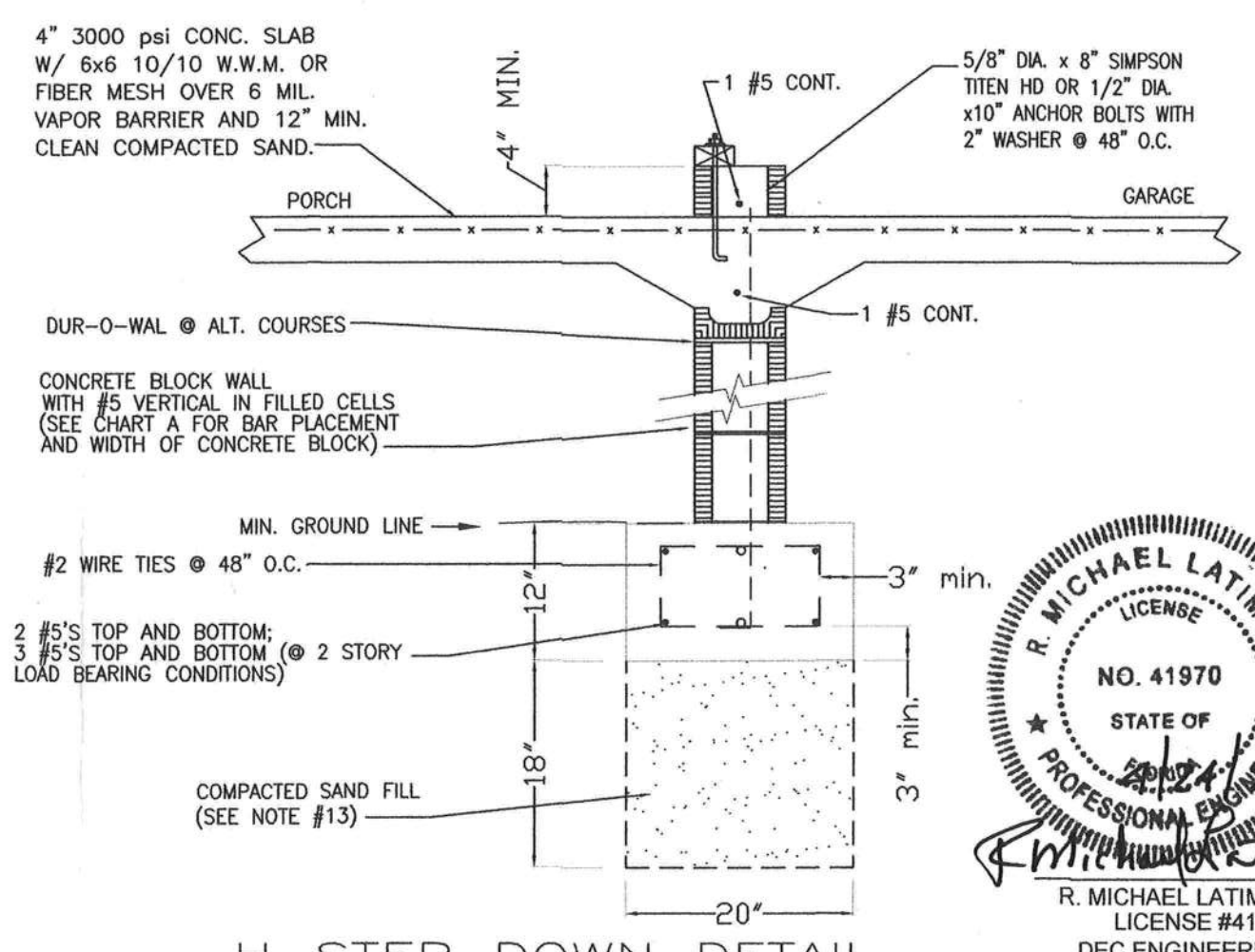
WITH BRICK LOAD



F. STEP DOWN DETAIL



G. TYPICAL EXTERIOR GRADE BEAM



H. STEP DOWN DETAIL

R. MICHAEL LATIMER
LICENSE
NO. 41970
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

R. MICHAEL LATIMER, P.E.
LICENSE #41970
DEC ENGINEERING INC.

Apr 24, 2020 - 2:08pm

DEC Engineering, Inc.
Civil Engineering
2236 Capital Circle NE Ste 202 Tallahassee, Florida 32308
Phone: (850) 385-5288
Email: info@decengrs.com State Certification #4244

PROJECT: 1995 Model 99, The Preserves @ Laurel Lake
TITLE: Foundation Details
SCALE: 3/4"=1'-0" CLIENT: Aaron Simque Homes

Revised by:	Date:	Description:

File Name:	
Designed:	D.A.W.
Drawn:	D.A.W.
Checked:	R.M.L.
Date:	4/20/20

Sheet 3 of 4

NO. 19D-0127

CHART A
VERTICAL BAR PLACEMENT FOR
BLOCK WALL WITH CONCRETE FLOOR SLAB OR JOIST DESIGN

FOR FLOOR JOIST DESIGN USE BOND BEAM WITH 1 #5 REINFORCED BAR CONTINUOUS FOR SLAB FLOOR, POUR INTO BLOCK WITH WELDED WIRE MESH. (SEE CHART BELOW.)

**IN ALL CASES VERTICAL BARS SHALL BE PLACED AT EITHER SIDE OF OPENINGS IN WALL AND AT EACH CORNER. VERTICAL BARS SHALL BE BENT 24" INTO SLAB EACH REINFORCED CELL SHALL BE FILLED WITH CONCRETE **

*** FLOOR SYSTEM TO BE PLACED BEFORE BACKFILLING

H--HEIGHT OF WALL	WIDTH OF BLOCK	VERTICAL BAR SPACING
H < 32	8"	NO. 5 @ 72" O.C.
32 < H < 56	8"	NO. 5 @ 48" O.C.
56 < H < 72	8"	NO. 5 @ 32" O.C.
72 < H < 88	12"	NO. 5 @ 32" O.C. W/ BOND BEAM W/ 1 #5 @ MID-HEIGHT
	8" *	NO. 5 @ 32" O.C. *(8" BLOCK MAY BE USED ONLY IF NEITHER SIDE OF WALL HAS SOIL BEARING PRESSURE. A BOND BEAM WITH 1- #5 SHALL BE PROVIDED @ MID-HEIGHT)
88 < H < 96	12"	NO. 5 @ 24" O.C. W/ BOND BEAM W/ 1 #5 @ MID-HEIGHT
	8" *	NO. 5 @ 24" O.C. *(8" BLOCK MAY BE USED ONLY IF NEITHER SIDE OF WALL HAS SOIL BEARING PRESSURE. A BOND BEAM WITH 1 #5 SHALL BE PROVIDED @ MID-HEIGHT)
96 < H < 120	12"	NO. 5 @ 16" O.C. (ALL CELLS FILLED W/3000 PSI CONC.) W/ BOND BEAM W/ 1 #5 @ 48" O.C. OR LESS ***
	8" *	NO. 5 @ 24" O.C. *(8" BLOCK MAY BE USED ONLY IF NEITHER SIDE OF WALL HAS SOIL BEARING PRESSURE. A BOND BEAM WITH 1 #5 SHALL BE PROVIDED @ MID-HEIGHT)
120 < H < 132	12"	NO. 6 @ 8" O.C. (ALL CELLS FILLED W/3000 PSI CONC.) W/ BOND BEAM W/ 1 #6 @ MID-HEIGHT
	8" *	NO. 5 @ 24" O.C. *(8" BLOCK MAY BE USED ONLY IF NEITHER SIDE OF WALL HAS SOIL BEARING PRESSURE. A BOND BEAM WITH 1 #5 SHALL BE PROVIDED @ MID-HEIGHT)

CHART B
PHYSICAL PROPERTIES OF MASONRY CEMENTS

MASONRY CEMENT TYPE	N	* S	* M
TIME OF SETTING INITIAL SET, MINIMUM, HR. FINAL SET, MAXIMUM, HR.	 2 24	 1 1/2 24	 1 1/2 24
COMPRESSIVE STRENGTH (AVERAGE OF 3 CUBES), MIN. 7 DAYS, PSI (MPa) 28 DAYS, PSI (MPa)	 500 (3.4) 900 (6.2)	 1300 (9.0) 2100 (14.5)	 1800 (12.4) 2900 (20.0)

* FOR THE PURPOSE OF THESE PLANS USE GRADE 'S' OR 'M'

GENERAL NOTES FOR SPECIAL FOUNDATION

1. ALL CONSTRUCTION SHALL CONFORM TO THE 2017 (6th ADDITION) FLORIDA BUILDING CODE.
2. IN THE EVENT OF A CONFLICT BETWEEN PLANS AND THE CODES, THE CODES SHALL GOVERN.
3. LOT SHALL BE LANDSCAPED TO PREVENT THE DETENTION OF SURFACE WATER.
4. CONCRETE: 3000 PSI STEEL: GRADE 60
5. ALL FILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST.

   DEFINITION:
   a. COMPACTION TEST WILL NOT BE REQUIRED WHEN THE FILL IS LESS THAN 12 INCHES IN DEPTH. THE INSPECTOR'S SHALL USE BEST JUDGEMENT.
   b. WHEN THE FILL IS 12 INCHES TO 18 INCHES IN DEPTH, COMPACTION TEST WILL BE REQUIRED ONLY IF THE INSPECTOR'S JUDGEMENT IS THAT THE COMPACTION IS QUESTIONABLE.
   c. WHEN THE FILL IS 18 INCHES IN DEPTH OR MORE COMPACTION TEST WILL BE REQUIRED.
6. ALL SPLICES IN FOOTING STEEL SHALL BE LAPPED 40 BAR DIAMETERS IN CONCRETE BLOCK AND 30 BAR DIAMETERS IN MONOLITHIC SLAB.
7. STEEL IN INTERIOR GRADE BEAMS SHALL BE SPLICED TO STEEL IN EXTERIOR GRADE BEAMS TO ASSURE CONTINUITY OF FOOTING THROUGHOUT STRUCTURE.
8. EXTERIOR GRADE BEAMS SHALL RUN CONTINUOUS AROUND THE PERIMETER OF THE STRUCTURE TO ASSURE CONTINUITY.
9. ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL CRACKING SPACED MAXIMUM 15 FEET IN EACH DIRECTION.
10. SOIL SHALL BE CHEMICALLY TREATED FOR TERMITES PER F.B.C. (SEE NOTE 23 FOR ALTERNATE)
11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO BEGINNING CONSTRUCTION.
12. ALL REINFORCING STEEL SHALL BE LOCATED MIN. 3" FROM CONCRETE SURFACE.
13. A CLEAN COMPACTED SAND FILL AT LEAST 18 INCHES THICK SHALL BE PLACED UNDER ALL EXTERIOR AND INTERIOR GRADE BEAMS.
    NOTE:
    THIS MAY BE OMITTED IN AREAS THAT HAVE AT LEAST 30 INCHES OF CLEAN PACTED NATURAL SOIL THAT HAS A MINIMUM BEARING CAPACITY OF 2000 PSF AND IS FREE OF MULCH, ORGANIC MATERIAL AND PLASTIC CLAYS AND CONSIST OF AT LEAST 50% SAND (EST.)
14. ANY ORGANIC MATERIAL UNDER FOUNDATION SHALL BE REMOVED PRIOR TO CONSTRUCTION, UNLESS OTHERWISE SPECIFIED.
15. FOR STEM WALLS 56" OR HIGHER, FORMWORK SHALL BE BRACED BEFORE BACKFILLING.
16. CONCRETE BLOCK SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI.
17. ADDITIONAL #5 W/ FILLED CELLS @ LOAD BEARING POINTS ON WALL
18. INCREASE OVERALL STEMWALL FOOTER WIDTH BY 4" WHEN BLOCK SIZE IS INCREASED FROM 8" BLOCK TO 12" BLOCK.
19. FOUNDATION DESIGN UNLESS NOTED IN SOILS REPORT IS A MIN. BEARING CAPACITY OF 2000 PSF.
20. USE 3#5's @ FOOTER FOR ANY SECOND STORY LOADING PER DETAIL.
21. IF WIND LOAD REQUIREMENTS FOR ANCHOR BOLTS EXCEED 7" THEY WILL GOVERN.
22. FOOTER @ A 12" MIN. INTO UNDISTURBED SOIL.
23. APPLICATION OF WOOD-TREATMENT TERMITCIDE SHALL BE AS REQUIRED BY LABEL DIRECTIONS FOR USE, AND MUST BE COMPLETED PRIOR TO FINAL BUILDING APPROVAL. CHANGES IN FRAMING OR ADDITIONS TO FRAMING IN AREAS OF THE STRUCTURE REQUIRING TREATMENT THAT OCCUR AFTER WOOD TREATMENT MUST BE TREATED PRIOR TO FINAL BUILDING APROVAL.

SOIL REPORT BY EARTHWORKS GEOTECHNICAL, INC.
FILE NUMBER TAL19E-0225, APRIL 21, 2020 REVIEWED PRIOR TO FOUNDATION DESIGN.

R. MICHAEL LATIMER LICENSE 4/24/20 NO. 41970 STATE OF FLORIDA PROFESSIONAL ENGINEER

R. MICHAEL LATIMER, P.E.
LICENSE #41970
DEC ENGINEERING INC.

Apr 24, 2020 - 2:08pm

DEC Engineering, Inc.
Civil Engineering
2236 Capital Circle NE Ste 202 Tallahassee, Florida 32308
Phone: (850) 385-5288
Email: info@decengrs.com State Certification #4244

PROJECT: 1995 Model 99, The Preserves @ Laurel Lake | CLIENT: Aaron Simque Homes
TITLE: Foundation Notes | SCALE: 3/4"=1'-0"

Revised by:	Date:	Description:

File Name:	
Designed:	D.A.W.
Drawn:	D.A.W.
Checked:	R.M.L.
Date:	4/20/20

Sheet 4 of 4

NO. 19D-0127