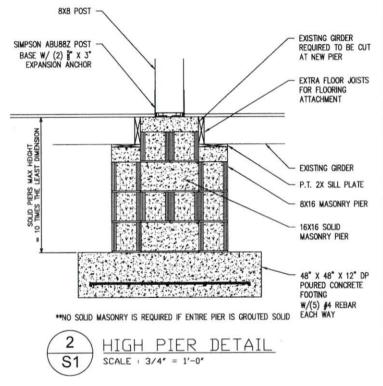




Approved

button 02/06/2019



PLANS PREPARED FOR:

DALE AND CORI BACKUS

> 255 SHUE ROAD BROADWAY, NC 27505

PROJECT INFORMATION:

& FRONT PORCH

255 SHUE ROAD BRAODWAY, NC 27505 (HARNETT COUNTY)

PLANS PREPARED BY:

PAK KEUNG YIP, PE

1501 HERITAGE CLUB AVE. WAKE FOREST, NC 27587 (919) 412-5431 pkyip@pkyipengineering.com

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PROJECT NUMBER: 2019-SI-002

0	2-3-19	CONSTRUCTION DRAWING
PEV	DATE	ISSUED FOR:

DRAWN BY: PKY CHECKED BY: PKY

SHEET TITLE

PROPOSED FRAMING DETAILS

SHEET NUMBER:

REVISION

SD-1

0

PROPOSED FRAMING DETAIL

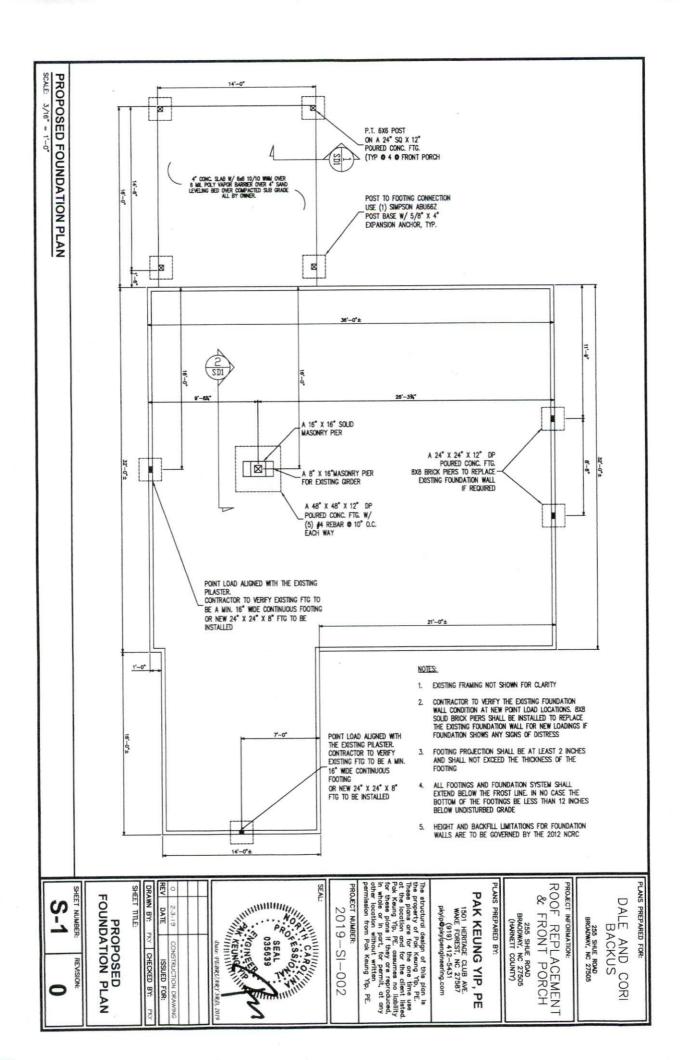
SCALE: 3/4" = 1'-0"

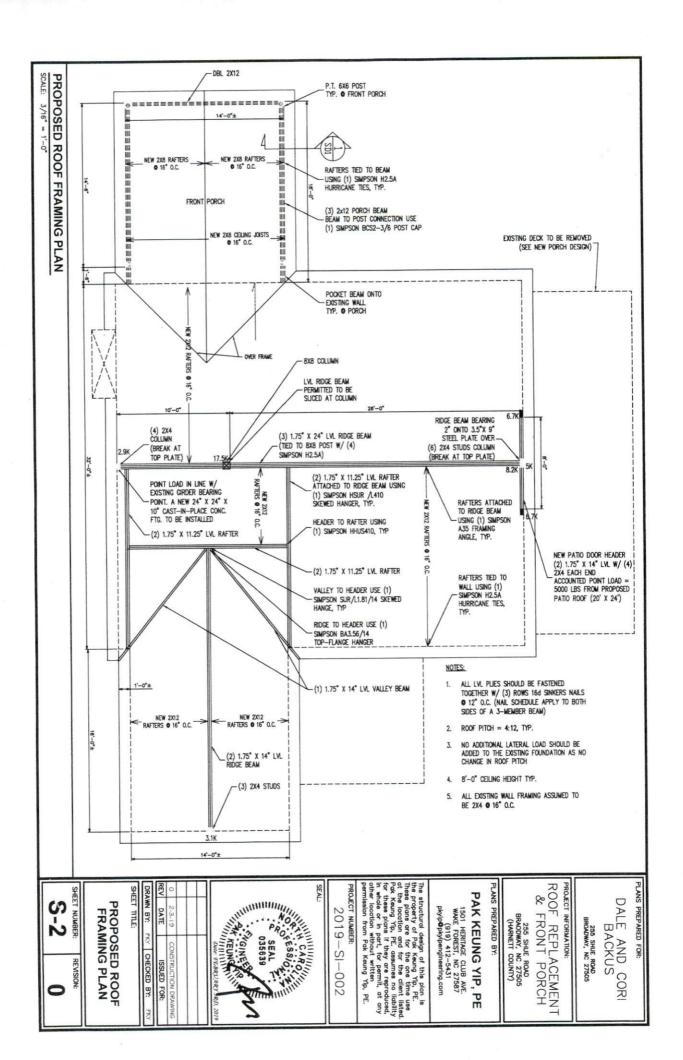
TECHOL DISA

PALE SI SIN, DO CINZ

DY, FELSING SIN, SI SIN, SI

AMERICAN





CEMERAL RECLUREMENTS & DESIGN CRITERIA

- 2. CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS,
 PROCEDURIST, TECHNIQUES, SEQUENCES OF CONSTRUCTION AND ALL
 OBJECTION STREET, STRANGES SHOULD OTHERWISE.

 2. CONCRETE SHALL HAVE A MINIMAN OF JODO PS, 28 DAY
 OBJECTION STRENGTH, URLESS HOTED OTHERWISE.
- 3. CONTRACTOR SHALL VERSTY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONDITIONS BY MAKING FIELD SURVEYS AND MEASUREMENTS PROR TO COMMENCING FARRICATION OR CONSTRUCTION.
- Contractor shall compare and coordinate the drawns of all discribles and report any discrepances between the drawns to the architect and engineer.

5 DESIGN LOADING

INF LOAD

ROOF LIVE LOAD		20 PSF
FLOOR LIVE LOAD	-	40 PSF
ATTIC WITH LIMITED STORAGE		20 PSF
ATTIC WITHOUT STORAGE	-	10 PSF
DEDKS	-	40 PSF
STARS		40 PSF

WIND LOAD: WIND SPEED = 95 MPH (ASCE 7-05); CAT II; EXP B

GROUND SHOW LOAD:

= 15 PSF - NOT CONTROLLING

SHAME

EDUNDATION.

1. FOUNDATIONS BEARBING ON EXISTING SOLIS HAVE BEEN DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARBING CAPACITY OF

- ALL TOP SOIL, ORGANIC AND VEDETATIVE MATERIAL SHOULD BE REMOVED PRIOR TO CONSTRUCTION. ANY REQUIRED FILL SHALL BE CLEAN, DRAWLIAR MATERIAL COMPACTED TO AT LEAST 85X OF MADMAIN DRY DENSITY AS DETERMINED BY ASTIM D—1557.
- 3. BACGEL SHALL NOT BE PLACED AGAINST THE WALL UNITL.

 14. WALL HAS SUFFICIENT STRENGTH AND HAS BEEN ANCHORED TO

 15. PRETENT STRENGTH SEED SUFFICIENT SPACED TO

 16. PRETENT STRENGTH SEED SUFFICIENT SPACED TO

 16. PRETENT STRENGTH THE SMAZEL SEED SUFFICIENT SPACED TO

 16. PRETENT STRENGTH STRENGTH SEED SUFFICIENT SPACED TO

 16. PRETENT SEED SUFFICIENT SPACED TO

 1
- 4. Drains shall be provided around all concrete or Mascirry Foundations that retain earth and enclose HABITABLE OR USABLE SPACES LOCATED BELOW GRADE. (NCRC
- R405.1)
 EXCEPTION: A DRAMAGE SYSTEM IS NOT REQUIRED WHEN THE FOUNDATION IS INSTALLED ON WELL-GRAINED GROUND OR SAID-GRAVEL MIXTURE SOILS ACCORDING TO THE UNIFED SOIL. CLASSIFICATION SYSTEM, GROUP I SOILS, AS DETRAILED IN TABLE
- Foundation walls that retain earth and enclose interior spaces, and floors below grade shall be dampproofed from the top of the footing to the finished

STRUCTURAL STEEL SPECIFICATIONS

STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH "ANSI/AISC 360-10 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"

WATERAL S ASTN A992 ASTN A38 ASTN A38 ASTN A38 W-SHAPES S-SHAPES, W-SHAPES C-SHAPES & WC-SHAPES ANGLES & PLATES
HSS SHAPES
STEEL PIPE ASTN A500, GRADE B ASTN A53, GRADE B ASTN A325 HIGH STRENGTH BOLTS COMMON BOLTS ANCHOR RODS WELDED HEADED STUDS ASTM A307 ASTM F1554, GRADE 55 ASTM A106 ASTM A406 DEFORMED BAR ANCHORS AWS D1.1, E70 SERGES

WELDING SHALL CONFORM WITH THE LATEST AWS D1.1 "SPECIFICATIONS FOR WELDING IN BUILDING CONSTRUCTION", AND SHALL UTILIZE E700X ELECTRODES UNLESS NOTED OTHERWISE.

CONCRETE AND REINFORCING STEEL SPECIFICATIONS.

- BUILDING CODE AND REFERENCE STANDARDS:

 1. CONDRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CONSTRUCTION AND DESIGN SHOULD CONFORM TO 2012 NORTH ACI 318-08, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL."

 - 3. REMPORCING BARS, DOWELS AND THES SHALL CONFORM TO ASTM—815 GRADE 60 REQUIREMENTS AND SHALL BE FIREE OF RUST, ORT, AND MAD.
 - 4. STEEL REINFORCEMENT FOR FOUNDATION WALL SHALL HAVE CONCRETE COVER CONFORM TO ACI 318-08.

- CONCRETE MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO ACI 530—08 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
- 2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90. MANUAL M NET AREA COMPRESSIVE STRENGTH OF MASONRY UNITS SHALL BE 1,500 PSI AT 28 DAYS.
- 3. MORTAR SHALL BE TYPE M OR S AND SHALL COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.
- 4. WEPHICLES SHALL BE PROVIDED IN THE OUTSIDE WYTHE OF MASCING WHITE WAS A MAINAINA SPACING OF 48 NOES ON CONTEX. WEPHICLES SHALL NOT BE LESS THAN 3/16 INCH (5 MM) IN DIAMETER, WEPHICLES SHALL BE LOCATED IMMEDIATELY ABOVE THE FLASHING (NORC 9703.7.6)
- 5. APPROVED CORROSION—RESISTANT FLASHING SHALL BE APPLIED SHINGLE—FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. (NORC R703.8)

WOOD SPECIFICATIONS

- WOOD MATERIALS AND CONSTRUCTION SHALL CONFORM TO NOS-OS NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND APA E30-O3 ENGINEERED WOOD CONSTRUCTION GUIDE.
- 3. DIMENSIONAL LUMBER USED AS STUD FRAMING SHALL BE MINIMUM NO.3 OR STUD GRADE LUMBER.
- LAMINATED VENEER LUMBER (LVL) MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 2,000,000 PSL FB = 3100 PSL FV = 285 PSL FC = 750 PSL
- 5. STRUCTURAL WOOD PANEL SHALL CONFORM TO THE RECOMMENDING OF 93, STRUCTURAL PLYWOOD, ESTABLISHES REQUIREMENTS FOR STRUCTURAL PLYWOOD, P.S., PREFORMANCE STANDARD FOR WOOD—BASED STRUCTURAL—LISE PANELS, ESTABLISHES REQUIREMENTS FOR STRUCTURAL—WOOD—BASED PANELS SHOWN AS DESERVITED STRAND ROARD (OSR)
- ROOF AND WALL SHEATHING SHALL BE APA RATED 5-PLY 7/16" PLYWOOD OR OSB SHEATHING.
- FLOOR SHEATHING SHALL BE TONGUE AND GROOVE APA RATED 5-PLY 3/4"PLYWOOD OR OSB SHEATHING.
- 8. ALL WOOD IN CONTACT WITH THE GROUND, EMBEDDED IN CONCRETE, IN DIRECT CONTACT WITH THE GROUND OR EMBEDDED IN CONCRETE EXPOSED TO THE WEATHER THAT SHALL BE APPROVED.
- 9. ALL LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19X AT THE TIME OF GRADING.
- 10. NAILS AND STAPLES SHALL CONFORM TO REQUIREMENTS OF ASTM F1887. HOLES SHOULD BE PRE-DRILLED WHERE NECESSARY TO
- COMPONENT OF EXTERIOR WALLS SHALL BE FASTENED IN ACCORDANCE WITH NORC TABLE R602.3(1) THROUGH R802.3(4).
- 12. DRILLING AND NOTCHING OF STUD AND TOP PLATE SHOULD BE ACCORDANCE WITH NORC RE02.6 THROUGH RE02.6.1
- 13. The end of each joist, beam or groder shall not have less than 1.5 notes of beating on wood or metal and not less than 3 notes on masonry or concrete.

PLANS PREPARED FOR:

DALE AND CORI BACKUS

255 SHUE ROAD BROADWAY, NC 27505

PROJECT INFORMATION:

ROOF REPLACEMENT & FRONT PORCH

255 SHUE ROAD BRAODWAY, NC 27505 (HARNETT COUNTY)

PLANS PREPARED BY:

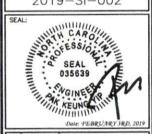
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PROJECT NUMBER:

2019-SI-002



DRAWN BY: PKY CHECKED BY:

STRUCTURAL NOTES

SHEET NUMBER:

REVISION:

SD-2

0

STRUCTURAL NOTES