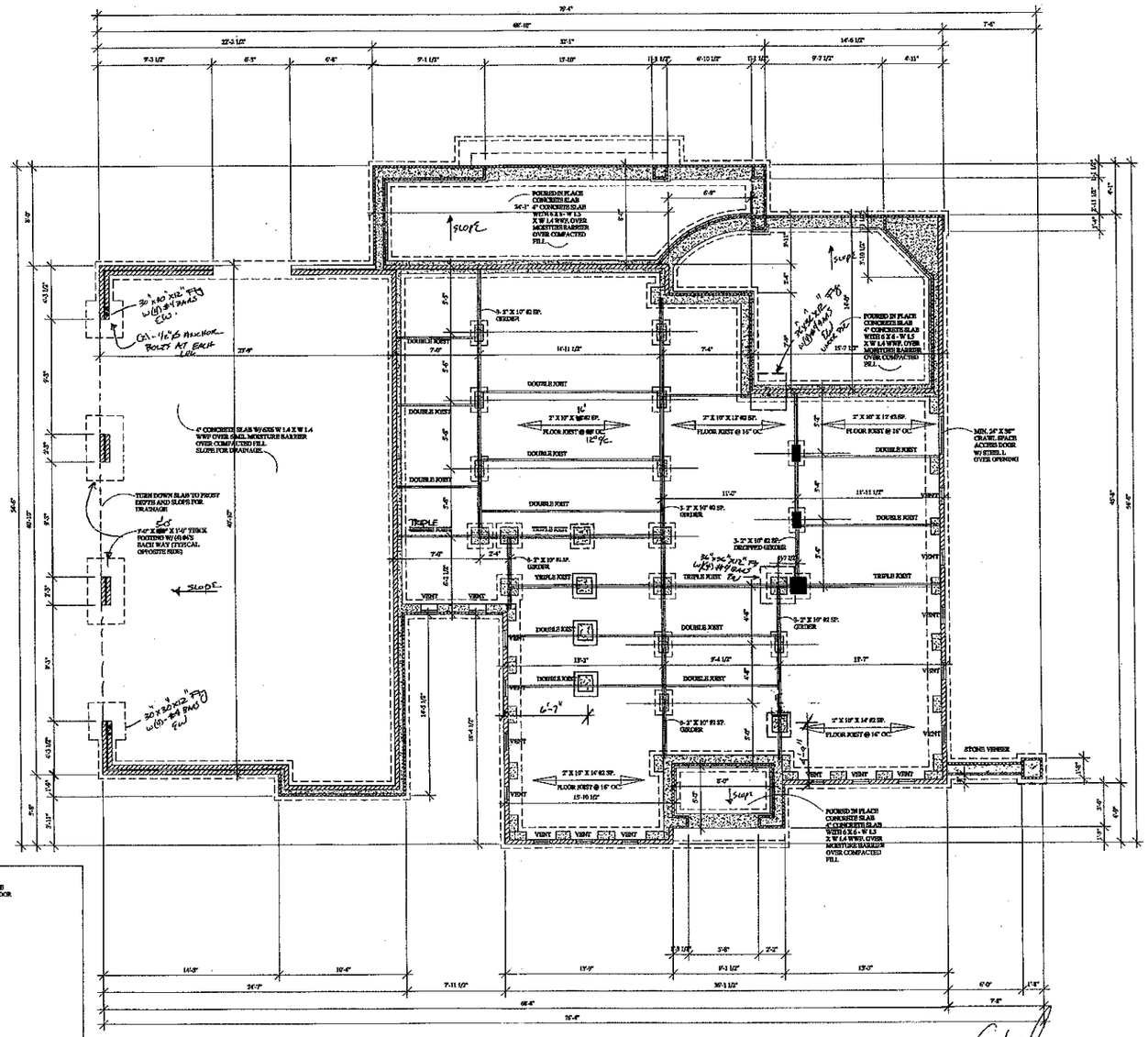
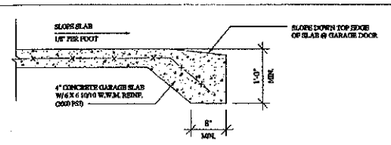
RESDENTIAL FOUNDATIONS

1. All footings are 8" x 16" unless other wise noted.
2. All piers are 8" x 16" CMU capped with 4" of solid masonry on 1 story structures or 8" on 2 story structures up to 32" high. All piers over 32" high must be filled pier with type "s" mortar. Maximum height for 8"x 16"filled pier is 6' - 8". Piers larger than 8" x 16"are noted on plans
3. Footings for 8" x 16" piers are 2' - 0" x 2' - 0" x 8" unless noted otherwise.
4. Design loads are all dead loads plus :
   a. Roof live loads - 20lbs per s.f
   b. Main floor loads (kitchen floors) - 40lbs per sf
   c. All other floors - 30lbs per s.f
   d Attic live load under roof slope >3 to 12- 20lbs per s.f
   e. Attic live load under roof slope <3 to 12- 10lbs per s.f
   f. Bearings for footings on original solid ground is 2,000 lbs per s.f unless otherwise.
   g. Wind load is 80m.p.h equivalent to 13 lbs per s.f.
   h. Earthquake is per N.C code.
   i. Wind load gorverns over earthquake unless otherwise noted.
   j. All designs are in accordance with N.C.
5. Waffle slabs are self supporting slabs reinforced according to details and do not require firm soil for support. Soil must only be capable of supporting concrete until it hardens and developes strength.
6. Concrete shall be psi in 28 days unless noted otherwise.
7. All re-bar splices shall be minimum of 3' - 0" unless noted otherwise.
8. Caissons foundations are 12" diameter drilled concrete reinforced to a depth with a minimum of 2' penetration into good orginal ground. Depth of drilling is limited to 15'. Therefore, no poor material more than 13' of depth is suitable for a caisson foundation.
9. 6" diameter treated wood piles with a minimum design load of 6 tons are used for all foundations with unsuitable soil deeper than 13'.
10. Sizes and reinforcing for footing caps over caissons or piles shall be as shown on plans.
11. Chimney footings 12" larger than footprint x 12' thick.
12. Walls backfilled and supporting framing.
   (a) For walls backfilled a maximum of 4' use an 8" masonry wall (8"CMU or 8" brick), with bituthane membrane waterproofing on exterior. Footings will be 8" x 16" or 8" x 24" as noted on plan.
   (b) For walls back filled 4' and higher to a maximum of 9' use 8" x 24" footings with #4 rebars hooked in footings at 16" o.c and projecting 18"above footings. Use 12" CMU walls with #4 rbars at 16" o.c vertical bars located 4" from con ete fill face, lap all splices 12" and use dur - o - wall reinforcing every 8" CMU jiocts.
   Fill all open cells of CMU with either type S-bl mortar or 3000 psi conc. Install waterproofing and frame before backfilling.
13. For retaing walls without framing see special designs or drawings.





THICKENED SLAB EDGE @ GARAGE DOOR

SCALE: 1" = 1'-0"

Holder Engineering, PLLC has performed a structural review of these plans. The structural components comply with the 2012 State Residential Building Code.

DEVIATION OF ANY STRUCTURAL REQUIREMENT OF THESE PLANS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD IS PROHIBITED

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 026956 REGISTERED MARK W. HOLDER

5/15/12

JEFFERY D. GRAY
RESIDENTIAL DRAFTING & DESIGN

CONTRACTOR SHALL CHECK AND VARIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND COORDINATE ANY CORRECTIONS OR REVISIONS WITH THE OWNER AND DESIGNER. JEFFERY D. GRAY WILL ASSUME NO LIABILITY FOR ANY MISTAKES ONCE CONSTRUCTION BEGINS.

PROJECT:

CHUCK & MELISSA TATE RESIDENCE

DATE: NOV. 4, 2012

REVISIONS:

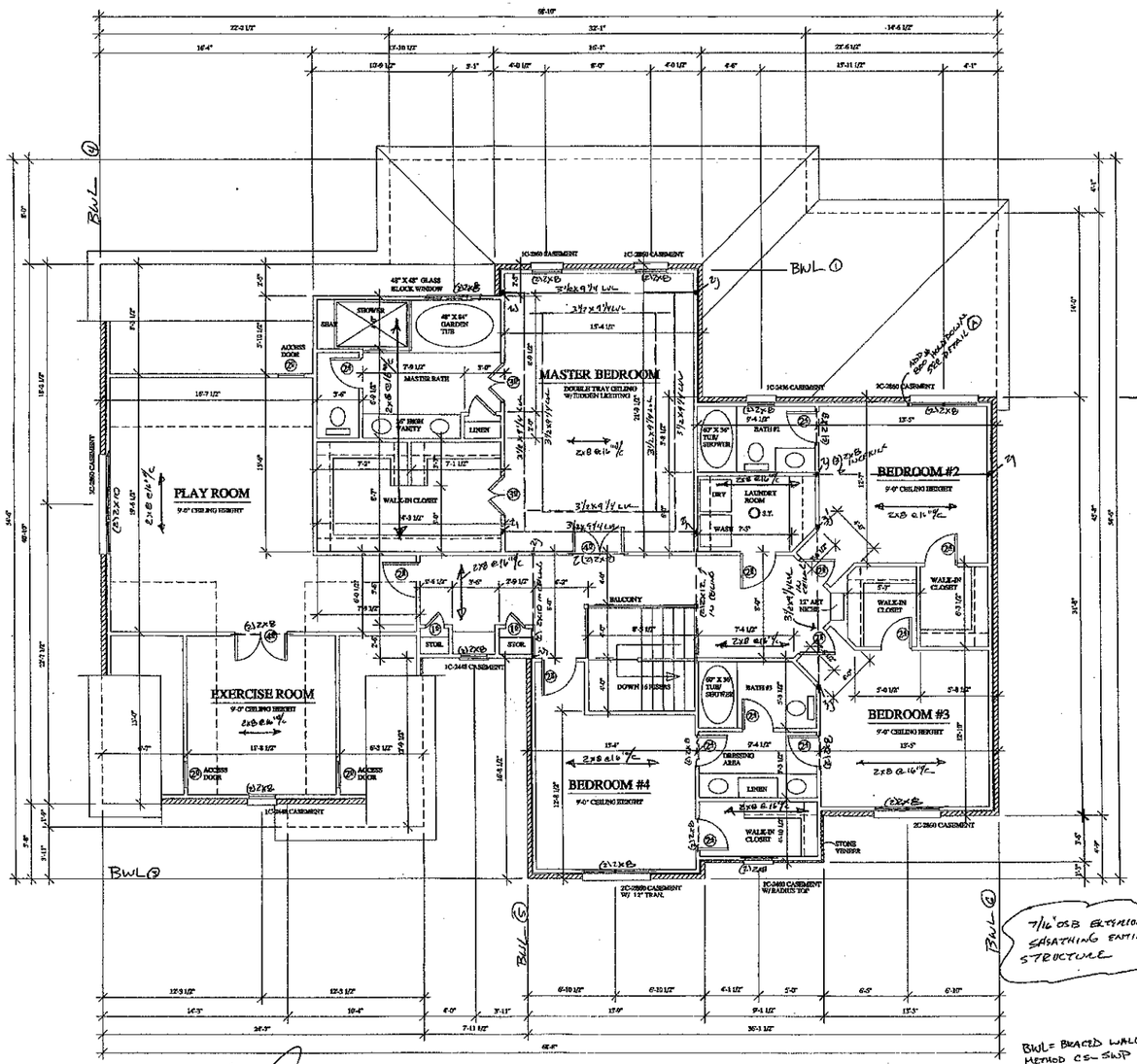
MAR. 31, 2011

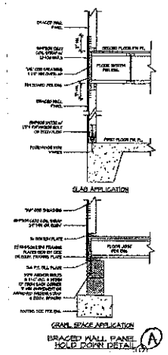
JAN. 3, 2012

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FILE NUMBER: 2010-TATE-3

SHEET: 3 OF: 7





SECOND FLOOR PLAN

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

BRACED WALL PANEL LENGTHS		
WALL	REQUIRED	ACTUAL
①	9'-0"	14'-0"
②	10'-0"	14'-6"
③	10'-0"	20'-0"
④	9.5"	285-9
⑤	8'0	16'-0"
⑥	9'0	31'-0"

Holden Engineering, PLLC has performed a structural review of these plans. The structural components comply with the 2012 State Residential Building Code.

DEVIATION OF ANY STRUCTURAL REQUIREMENT OF THESE PLANS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD IS PROHIBITED

NORTH CAROLINA PROFESSIONAL SEAL 035586 ENGINEER MARK W. HOLDEN

5/25/12

JEFFERY D. GRAY
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PROJECT:

CHUCK & MELISSA TATE RESIDENCE

DATE: NOV. 6, 2010
REVISION:
MAR. 31, 2011
JAN. 3, 2012

ORIGINAL

FILE NUMBER
2010-TATE-3

SHEET:
5 OF 7

Acknowledgement Of Plans Submittal ONLY!
Maine Tabor Date 9/4/12
Date