Academy at Anderson Creek 1112 - 173 Scholar Drive, Spring Lake, 28390

Harnett County Created: 4/5/2021

House Plan: Mixon III

Elevation: A

Stone/Brick Option: Option #1 see MSS

Foundation: Crawl

Foundation Finish: 3 Sides Parged

Garage Hand: Right Garage: 2 Car Front Garage Door: (2) 8x8 Front Porch: Concrete

Roof: Truss

Siding: Fiber Cement Ceiling Height 1st Floor: 9' Ceiling Height 2nd Floor: 9' Door Frame Height 1st Floor: 83" Door Frame Height 2nd Floor: 83"

Windows 1st Floor: 6/0 Front only, 5/0 side&rear

Windows 2nd Floor: 5/0

OPTIONS Screen Porch

Study in Lieu of Bedroom #5

Rec Room

Trey Ceiling in Master Bedroom

Total Heated SQ FT: 2981 Total Unheated SQ FT: 640

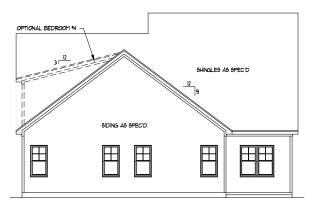
Total SQ FT: 3621

Bedrooms:4+ Rec Room + Study

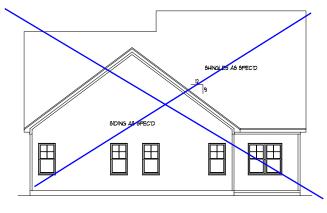
Full Bathrooms: 3 Half Bathrooms: 0



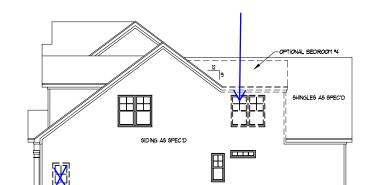
THIS PLAN CONFORMS TO THE 2018 EDITION OF THE IR.C. / NORTH CAROLINA RESIDENTIAL CODE.



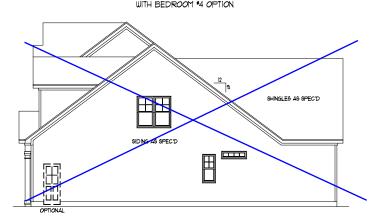




REAR ELEVATION

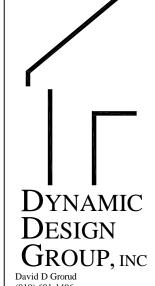


**Include Windows** 



RIGHT SIDE ELEVATION





(919) 601-1406 DynamicDesignGroup@gmail.com

The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justificatio Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code gover over dimensions.

CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI
LOT: MULTI

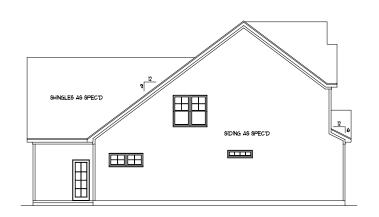
SUBDIVISION: MULTI

COUNTY: MULTI

IXON III
PLAN NAME
7-45GR 1-28-21

B-2287-45G

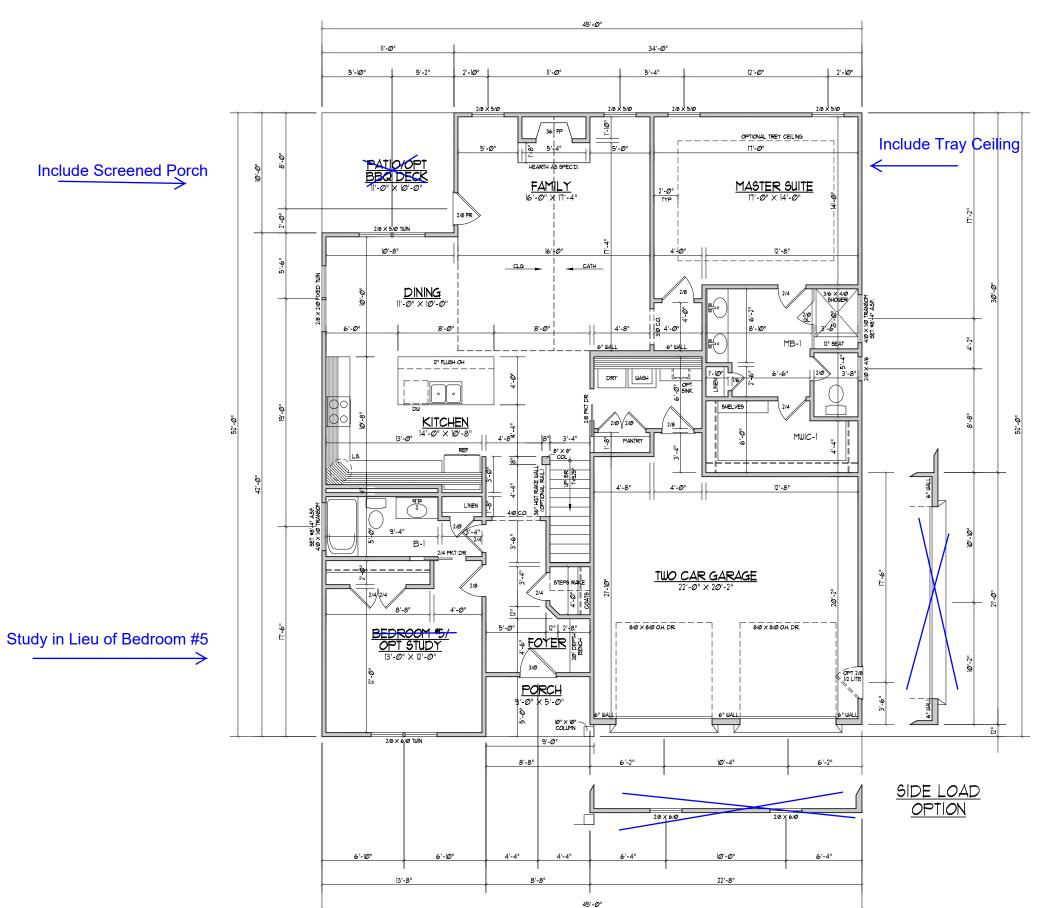
A-1A
SHEET

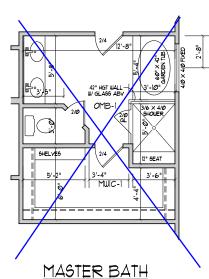


LEFT SIDE ELEVATION









OPTION

ELEVATION "A" & "B" FIRST FLOOR PLAN

I611 HEATED SQ. FT. 486 SQ. FT. GARAGE 44 SQ. FT. COVERED PORCH IIØ SQ. FT. PATIO / OPT BBQ DECK

## NOTES:

- 1) 9'-0' CLG. HGT. (9' 11/2" PLT. HGT.)
  UNLESS OTHERWISE NOTED.
  2) ALL WALLS DRAWN AT 4" WIDTHS
  3) SET WINDOWS AT 1"-10" ASF.
  UNLESS OTHERWISE NOTED.
  4) DIMENSIONS ARE TO FRAMING
- UNLESS OTHERWISE NOTED.
  5) CONSULT WINDOW MANUFACTURER'S
  SPECS. FOR EGRESS REQUIREMENTS,
  PRESSURE RATINGS, & ROUGH OPNG'S.



(919) 601-1406 DynamicDesignGroup@gmail.com

The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility

## CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI SUBDIVISION: MULTI

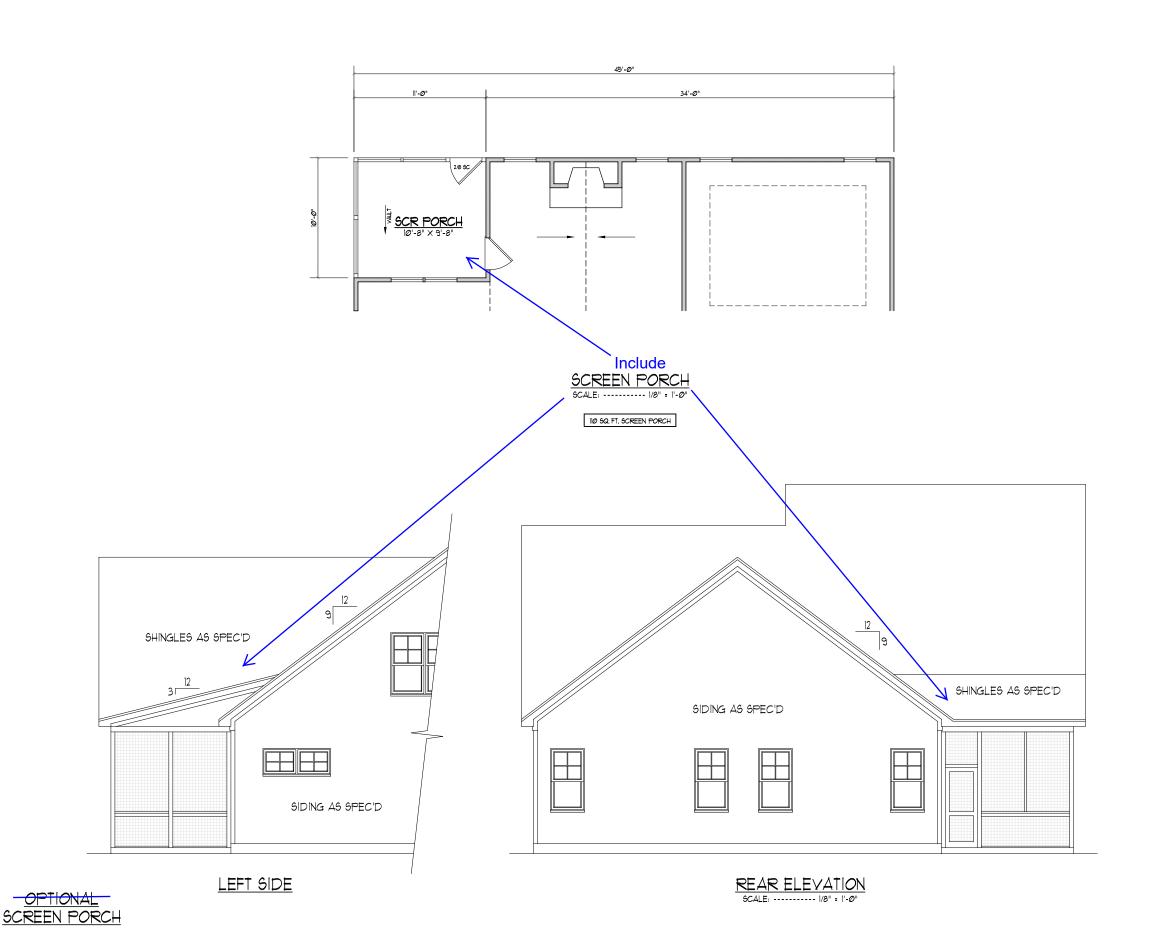
COUNTY: MULTI

.28-2 DATE

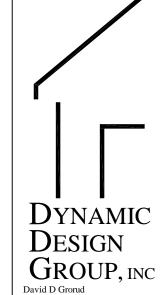
PLAN NAME 7-45GR 287

SHEET

 $\mathbf{B}$ 







(919) 601-1406 DynamicDesignGroup@gmail.com

The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern over dimensions.

## CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

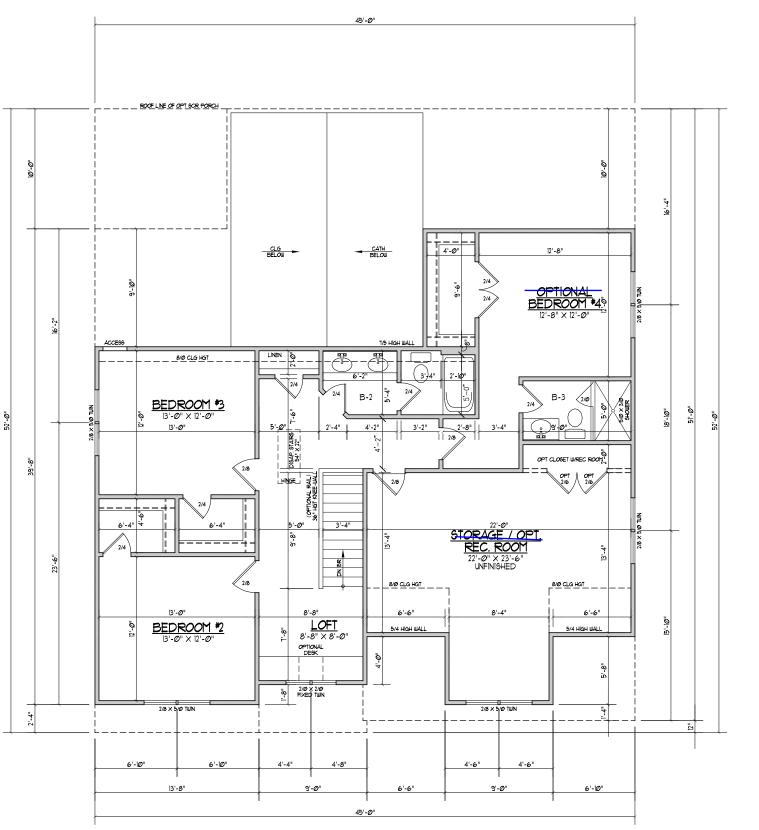
-28-2 DATE

PLAN NAME 7-45GR 287

M

SCREEN PORCH OPTION SHEET





Include Bedroom #4

Include Rec Room and Closet

ELEVATION "A" SECOND FLOOR PLAN W/ BEDROOM #4 / BATH OPTION

992 HEATED SQ. FT. 378 UNFIN. STORAGE SQ. FT.

## NOTES:

- NOTES:

  18-0" CLG, HGT, (8' 11/2" PLT, HGT.)

  UNLESS OTHERWISE NOTED.

  2) ALL WALLS DRAWN AT 4" WIDTHS

  UNLESS OTHERWISE NOTED.

  3) SET UNNDOWS AT 1"-4" ASF.

  UNLESS OTHERWISE NOTED.

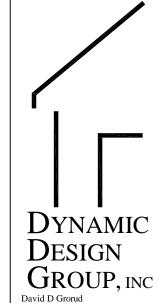
  4) DIMENSIONS ARE TO FRAMING

  UNLESS OTHERWISE NOTED.

  5) CONSULT WINDOW MANUFACTURER'S

  SPECS, FOR EGRESS REQUIREMENTS,

  PRESSURE RATINGS, 4 ROUGH OPING'S.



(919) 601-1406 DynamicDesignGroup@gmail.com

The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern over dimensions.

CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

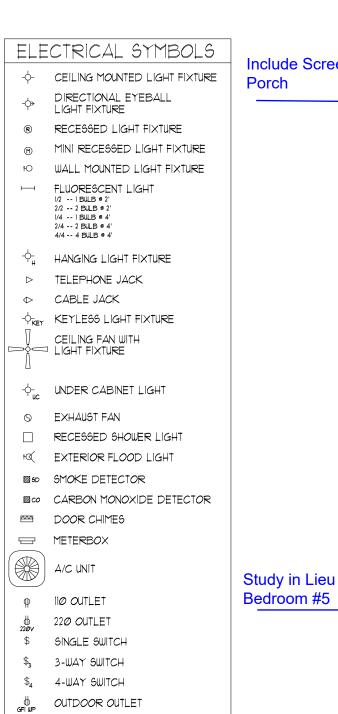
COUNTY: MULTI

.28-2 DATE

PLAN NAME 7-45GR

287 B





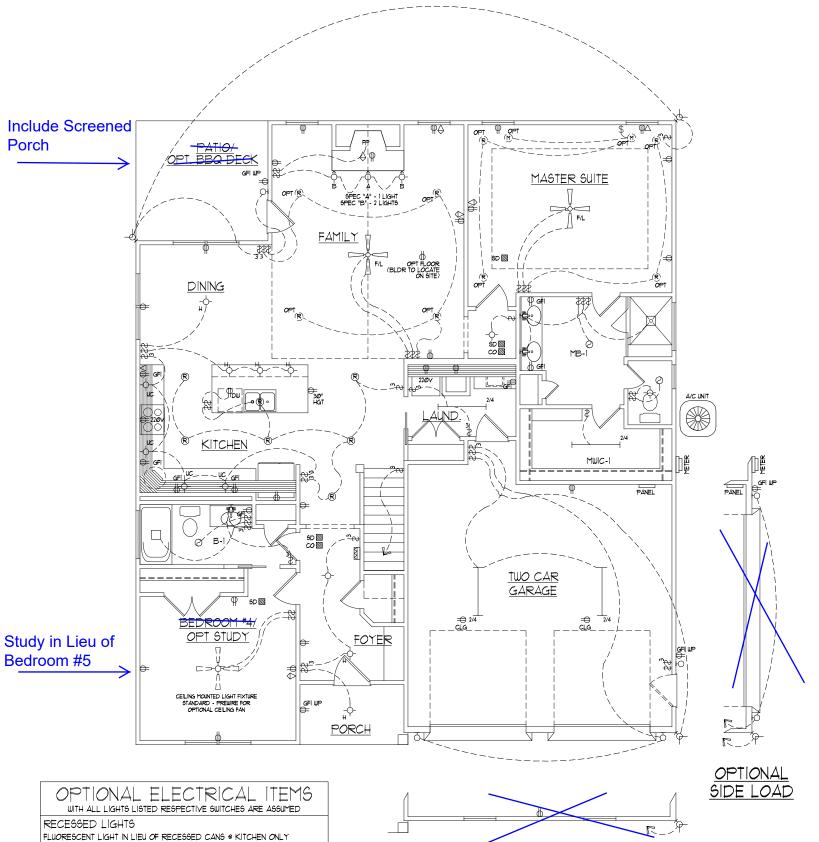
CEILING FANS IN LIEU OF FLUSH MOUNT

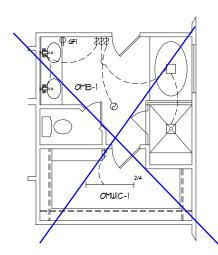
EXTERIOR LIGHTS AT GARAGE DOOR

HANGING LIGHTS @ KITCHEN UNDER CABINET LIGHTS

FLOODLIGHTS

d d=1 GFI





MASTER BATH

OPTION

DYNAMIC
DESIGN
GROUP, INC
David D Grorud
(919) 601-1406
DynamicDesignGroup@gmail.com

The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern over dimensions.

CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI
LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

**111** -28-21

IIXON I

PLAN NAM -2287-45GR

PLAN I.D.

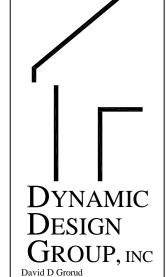
E-1

B

<u>FIRST FLOOR</u> ELECTRICAL LAYOUT







(919) 601-1406 DynamicDesignGroup@gmail.com

The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern over dimensions.

### CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

28-2 DATE

PLAN NAME 7-45GR 28,

PLAN I.D.

SCREEN PORCH OPTION

**SHEET** 

 $\mathbf{B}$ 

Include SCREEN PORCH **Screened Porch** 

ELECTRICAL SYMBOLS

- CEILING MOUNTED LIGHT FIXTURE
- DIRECTIONAL EYEBALL LIGHT FIXTURE
- RECESSED LIGHT FIXTURE R
- MINI RECESSED LIGHT FIXTURE **(M)**
- Ю WALL MOUNTED LIGHT FIXTURE

HANGING LIGHT FIXTURE

- FLUORESCENT LIGHT
  - 1/2 -- 1 BULB @ 2'
  - 2/2 -- 2 BULB # 2'
  - 2/4 -- 2 BULB @ 4' 4/4 -- 4 BULB @ 4'
- TELEPHONE JACK
- CABLE JACK  $\Diamond$
- -\\-\rac{-}{KEY} KEYLESS LIGHT FIXTURE



- UNDER CABINET LIGHT
- 0 EXHAUST FAN
- RECESSED SHOWER LIGHT
- EXTERIOR FLOOD LIGHT Ю
- SMOKE DETECTOR
- CARBON MONOXIDE DETECTOR Ø co
- DOOR CHIMES
- METERBOX

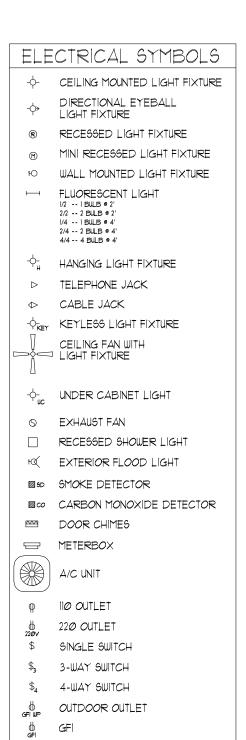


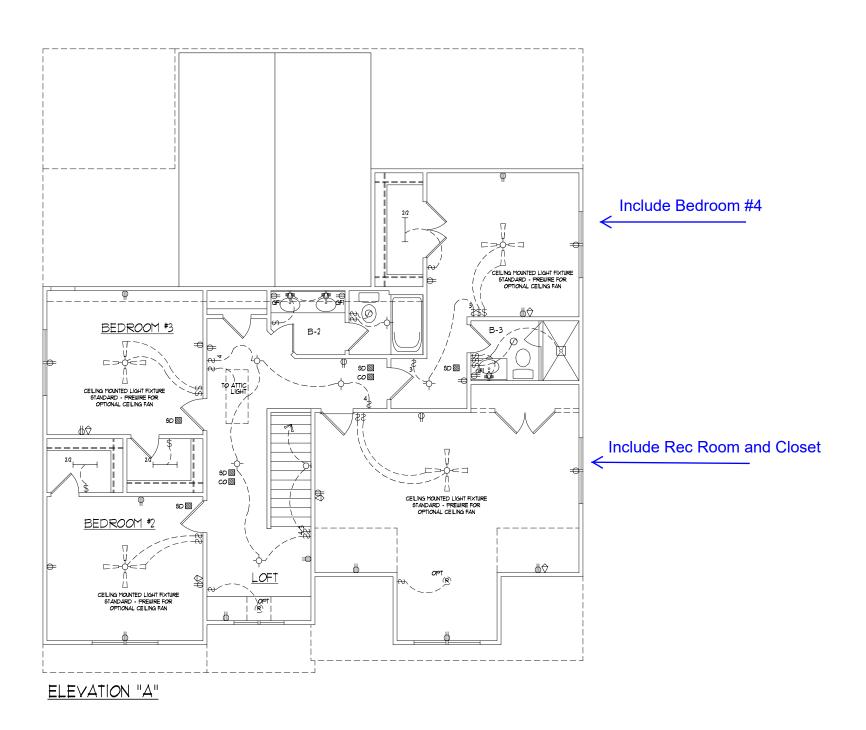
A/C UNIT

- 110 OUTLET Φ
- 220 OUTLET
- \$ SINGLE SWITCH
- 3-WAY SWITCH
- \$4 4-WAY SWITCH
- d∓iwip OUTDOOR OUTLET
- d GFI GFI

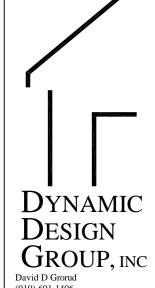
OPTIONAL SCREEN PORCH







SECOND FLOOR ELECTRICAL LAYOUT



(919) 601-1406 DynamicDesignGroup@gmail.com

contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code gover

CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

28-2

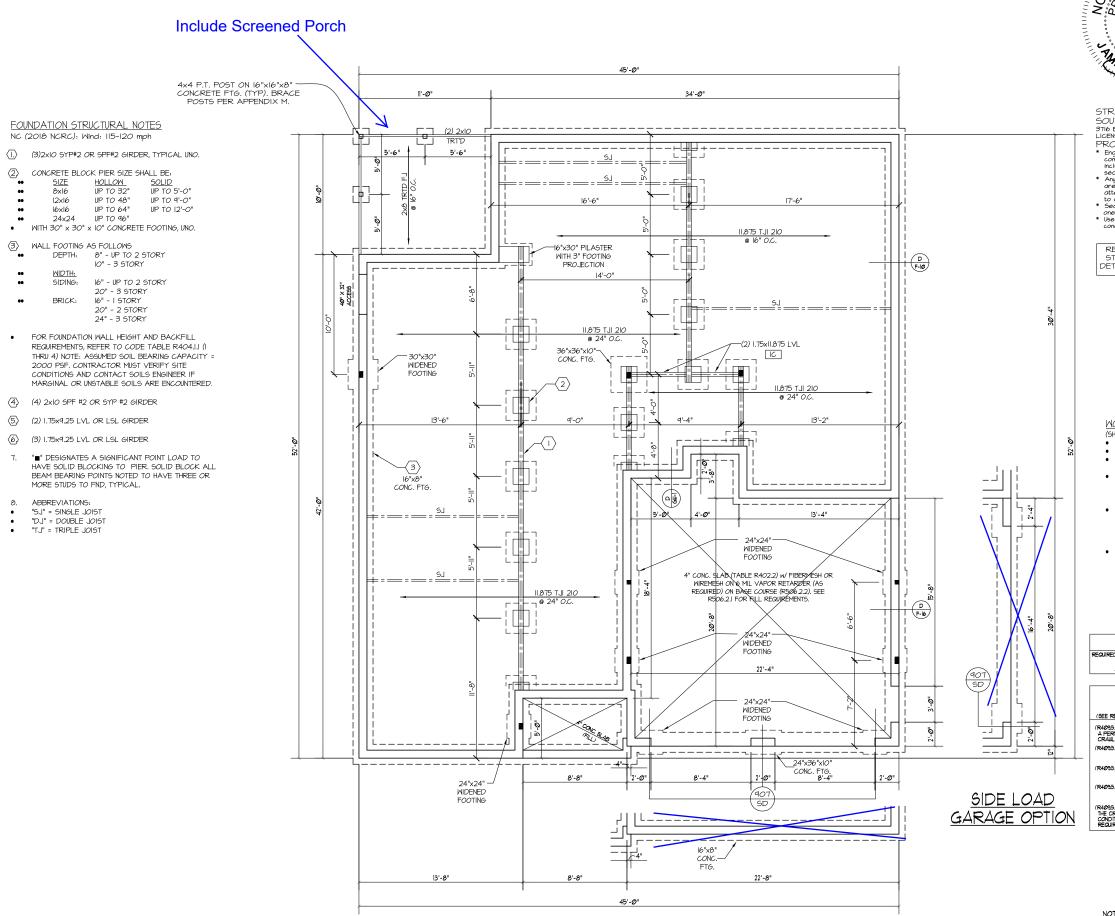
PLAN NAME 7-45GR 287

PLAN I.D.

**SHEET** 

B

W/ BEDROOM #4 / BATH OPTION





PROFESSIONAL MEMBER

A BD

STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC 27609 LICENSE: C-1287, PHONE: 919-878-1617 PROJECT # 21-2282 GR

- PROJECT # 21-2282 GR
  Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
  Any deviations or discrepancies or plans are to be brought to the immediate attention of Southern Engineers. Fallire to do so MIII void Southern Engineer's liability.
  Seal is voilid for a project permitted within one year from date of seal.
  Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

LVL SCHEDULE IC (2) 1.75x11.875 - 10'

MOOD "I" JOISTS (SHALL BE ONE OF THE FOLLOWING):

• TJI 210 BY I-LEVEL

- IPI 20 PI US BY LP BCI 5000s I.8 BY BC
- ALL WOOD "I"JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- INSTALL SQUASH BLOCKS, WEB STIFFENERS, ETC. AS REQUIRED BY AND ACCORDING TO THE I-JOIST MANUFACTURER'S SPECIFICATIONS AND
- HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER.

WALL VENTED CRAWL SPACE

1678 SQ. FT. / 150 = 9.84 SQ. FT. OF VENTILATION

## CLOSED CRAWL SPACE VENTILATION METHODS

(SEE REFERENCED SECTIONS IN CODE BOOK FOR DETAILED INSTRUCTIONS)

(R409.52) SUPPLY AIR <u>| 1678</u> SQ. FT. / 30 = \_\_\_ R40953) HOUSE AIR 1678 50.FT./50 = 1678 sq. Ft. / 50 =

(R40955) CONDITIONED SPACE THE CRAIL SPACE SHALL BE DESIGNED AS A HEATED AND COOLED, CONDITIONED SPACE WITH WALL INSULATION INSTALLED AS PER THE RECUIREMENTS OF SECTION R40381.

CRAWL SPACE FOUNDATION PLAN

1) SEE SHEET D-1 FOR DETAILS. 2) DIMENSIONS ARE TO EXTERIOR OF FOUNDATION.

**DYNAMIC DESIGN** GROUP, INC David D Grorud (919) 601-1406 DynamicDesignGroup@gmail.com

contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justificatio Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern over dimensions

CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

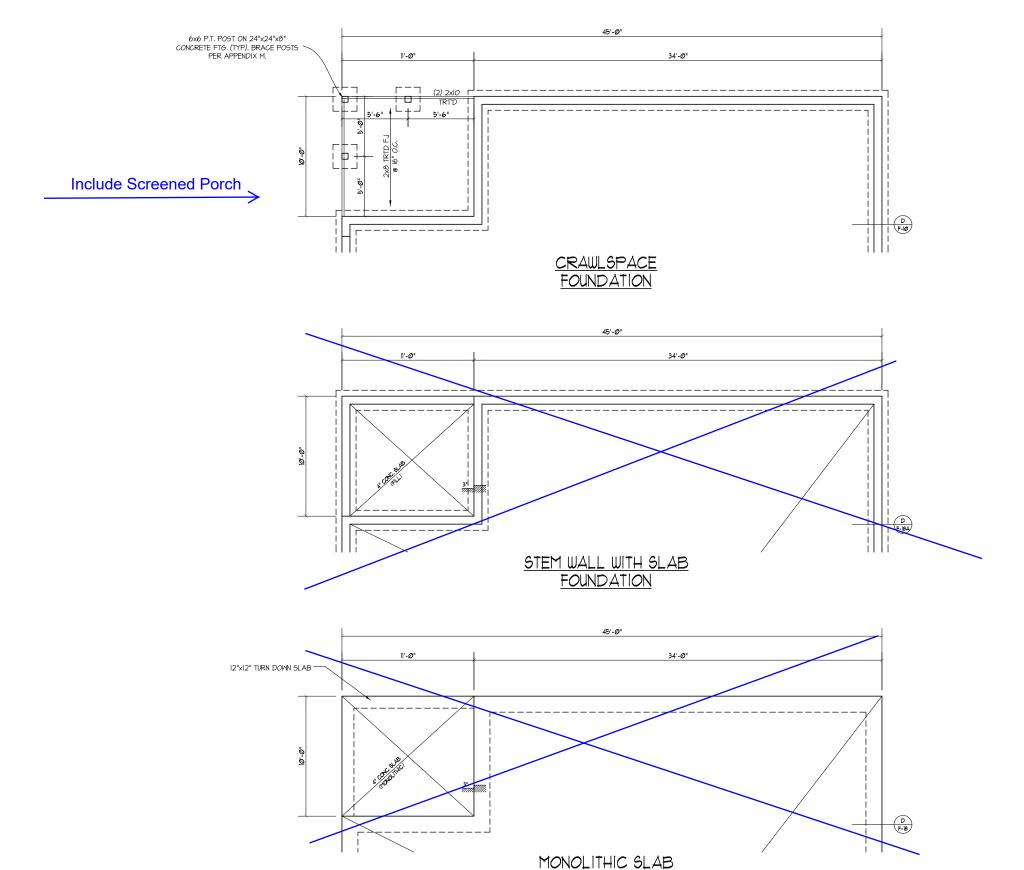
LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

2 28

PLAN NAME 45GR 4  $\infty$ Q  $\mathbf{M}$ 



FOUNDATION





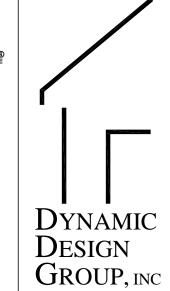
STRUCTURAL DESIGN BY: STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BBNSON DR., RALEIGH, NC 27609
LICENSE: C-1287, PHONE: 919-978-1617
PROJECT # 21-2282 GR

\* Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precutions. Any dotations of the sequencers of the promote of plans activation of southern Engineers. Failure to do so will void Southern Engineers's liability.

\* Seal is valid for a project permitted within one year from date of seal.

\* Use of these plans constitutes approval of terms 4 conditions as defined in the customer agreement.

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.



David D Grorud (919) 601-1406 DynamicDesignGroup@gmail.com

The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern

# CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

-28-2

PLAN NAME 7-45GR 287 B

**SHEET** 

OPTIONAL SCREEN PORCH FOUNDATION PLANS

## FRAMING NOTES

NC (2018 NCRC): Wind: 115-120 mph

- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: CS-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.
- 2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (MSP) (EXPOSURE B: 1/16", EXPOSURE C: 15/32"), SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- 3. WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE, BLOCK AT ROOF AND ATTACH BRACED WALLS PER CODE, WSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE MSP SHEATHING MAY BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES.
  (MINIMUM I2" BEYOND FLOOR BREAK) OR OTHER APPROVED METHOD.
- 4. "HD" = HOLDOWN: HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY.
- \*\*GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR
- \*\*IPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON C522
  STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR
  HEADER BELOW. EXTEND STRAP T" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (7) 8d NAILS.
- 5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH I/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN, OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE
- 6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE MITH 1/6" MSP SHEATHING MITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER WSP AS REQUIRED ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

WHOLE HOUSE BRACING SUMMARY TOTAL REQUIRED BRACING: 56 TOTAL PROVIDED BRACING: 96

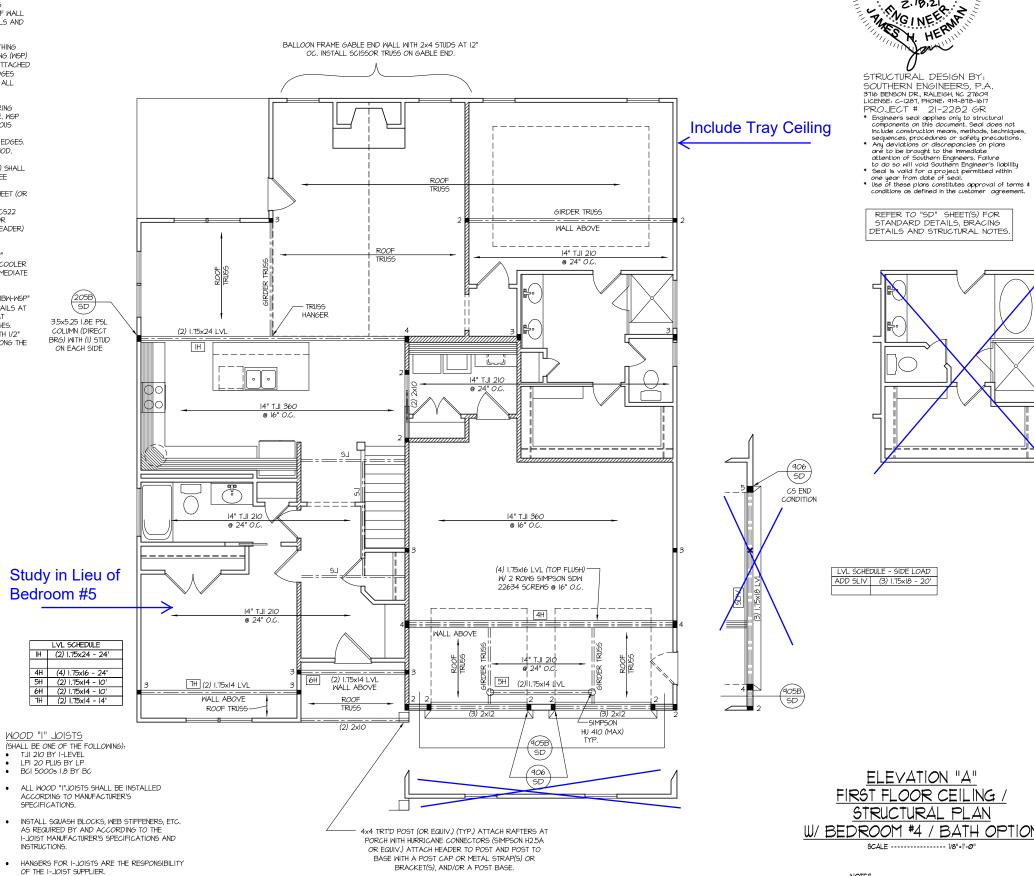
## HEADER / BEAM NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6' WALL) WITH (I) SUPPORT STUD AND (I) KING STUD, UNLESS NOTED OTHERWISE.
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS FOR HEADERS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR
- AS BELOW: UP TO 4' SPAN: (I) KING STUD E/E
- OVER 4' AND TO 8' SPAN: (2) KING STUDS E/E OVER 8' AND UP TO IO' SPAN: (3) KING STUDS
- OVER IO' SPAN: (4) KING STUDS E/E

## TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRC): Wind: 115-120 mph

- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.





PROFESSIONAL MEMBER

BD

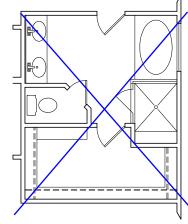
AMERICAN INSTITUTE

BUILDING DESIGN

A

STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC 27609 LICENSE: C-1287, PHONE: 919-878-1617

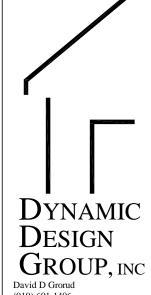
REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.



ELEVATION "A" FIRST FLOOR CEILING / STRUCTURAL PLAN W/ BEDROOM #4 / BATH OPTION

#### NOTES:

1) SHADED WALLS DENOTE LOAD BEARING WALLS. 2) DENOTES SOLID STUDS.



(919) 601-1406 DynamicDesignGroup@gmail.com

contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justificatio Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern

# PROJECT FOR: CITY HOMES

LOCATION: MULTI LOT: MULTI

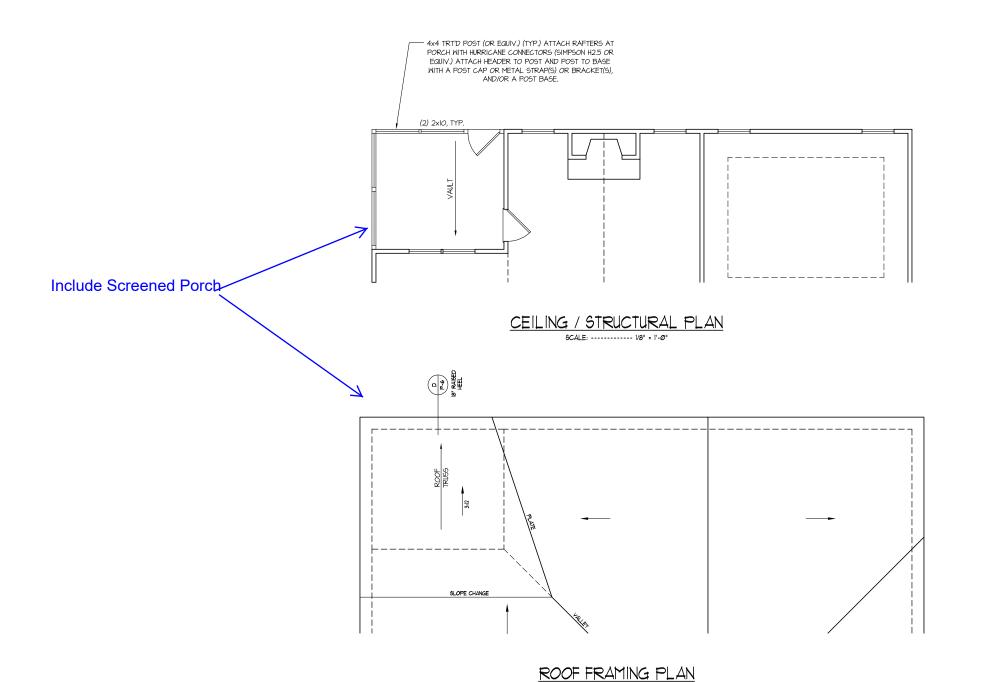
SUBDIVISION: MULTI

COUNTY: MULTI

 $\sim$  $\infty$ 2

**PLAN** S  $\infty$ **(1)** 

B



SCALE: ----- 1/8" = 1'-0"





STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BBRSON DR, RALEIGH, NC 27604
LICENSE: C-1227, PHONE: 914-9-18-16-17
PROJECT # 21-2282 GR

\* Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
Any deviations or discrepancies on plans are to be brought to the immediate on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability Seal is valid for a project permitted within one year from date of seals.

• Use of these plans constitutes approval of terms 4 conditions as defined in the customer agreement. STRUCTURAL DESIGN BY:

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

## ROOF FRAMING NOTES:

NC (2018 NCRC): Wind: 115-120 mph

- (I.) 2x8 @ 16" O.C. WITH 2x10 RIDGE, UNO.
- 2. (2) 2xIO OR 1.75xII.875 LVL HIP. (2) 2xIO HIPS MAY BE SPLICED WITH A MIN. 6'-O" OVERLAP AT CENTER
- (2) 2xIO OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE
- 4. 1.75x11.875 LVL OR (2)1.75x9.25 LVL VALLEY
- (5) FALSE FRAME VALLEY ON 2xIO FLAT PLATE
- 2x6 RAFTERS @ 16" O.C. W 2x8 RIDGE, UNO.
- 7. 2xIO RAFTERS @ I6" O.C. W 2xI2 RIDGE, UNO.
- 8) EXTEND RIDGE 12" BEYOND INTERSECTION
- "SR" = SINGLE RAFTER
- "DR" = DOUBLE RAFTER
- "TR" = TRIPLE RAFTER
  "RS" = ROOF SUPPORT
- "=" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE 2X6 OR 6X6 FOR SUPPORT POSTS OVER IO'-O" IN HEIGHT)
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS:
- SIMPSON "H-2.5A" OR EQUIVALENT INSTALL RAFTER TIES AND COLLAR TIES PER SECTION R802.3.I OF THE 2018 NC RESIDENTIAL CODE.



DynamicDesignGroup@gmail.com

ine chawings and specimeators (pinals) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code governs over dimensions

CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

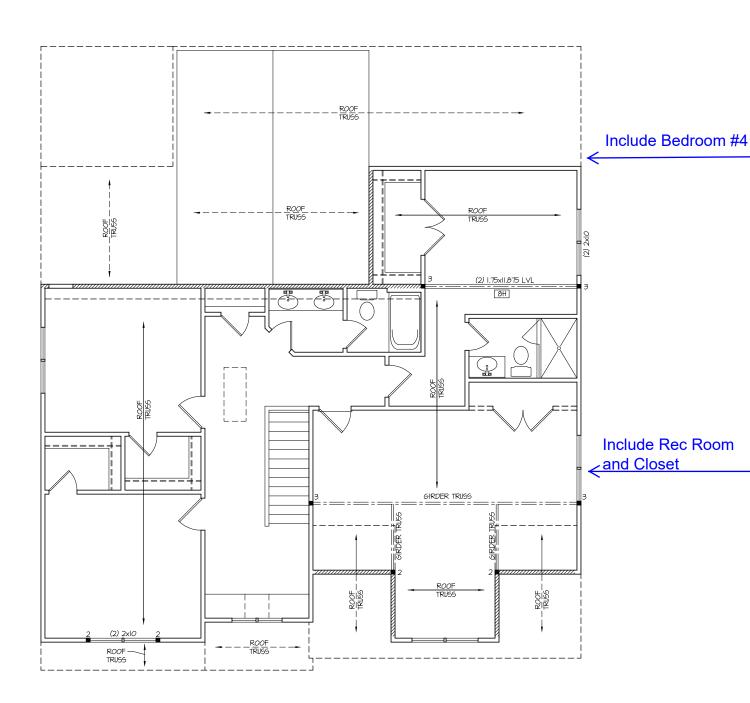
COUNTY: MULTI

2 28-

45GR 28,

 $\mathbf{\Omega}$ 





CARO

STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BBRSON DR, RALEIGH, NC 21604
LICENSE: C-1227, PHONE: 414-9-18-1617
PROJECT # 21-2282 GL

\* Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability Seal is valid for a project permitted within one year from date of seal.

• Use of these plans constitutes approval of terms 4 conditions as defined in the customer agreement. STRUCTURAL DESIGN BY:

PROFESSIONAL MEMBER

A BD

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

## HEADER / BEAM NOTES

- I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) WITH (I) SUPPORT STUD AND (I) KING STUD, UNLESS NOTED OTHERWISE.
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS FOR HEADERS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW:
- UP TO 4' SPAN: (I) KING STUD E/E OVER 4' AND TO 8' SPAN: (2) KING STUDS E/E OVER 8' AND UP TO 10' SPAN: (3) KING STUDS
- OVER IO' SPAN: (4) KING STUDS E/E

### TRUSS SYSTEM REQUIREMENTS NC (2018 NCRC): Wind: 115-120 mph

- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

ELEVATION "A" SECOND FLOOR CEILING / STRUCTURAL PLAN W/ BEDROOM #4 / BATH OPTION

1) SHADED WALLS DENOTE LOAD BEARING WALLS.
2) DENOTES SOLID STUDS.



David D Grorud (919) 601-1406 DynamicDesignGroup@gmail.com

contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern over dimensions

## CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

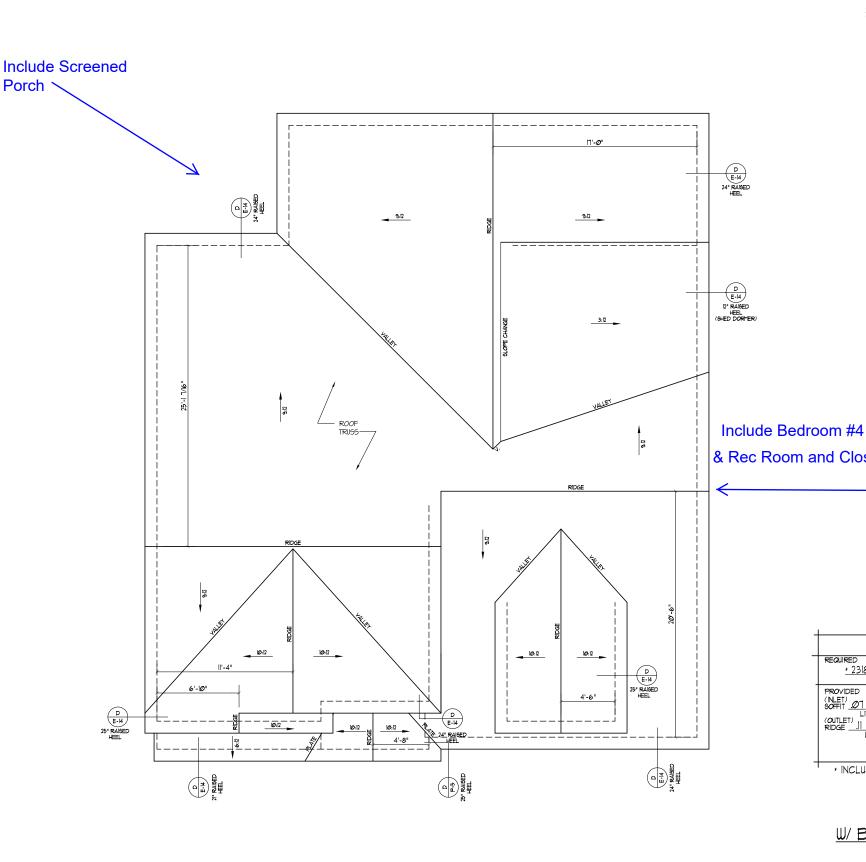
LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

.28-2]
DATE PLAN NAME 7-45GR

287 B



CARO

PROFESSIONAL MEMBER A BD AMERICAN INSTITUTE OF BUILDING DESIGN

STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BBRSON DR, RALEIGH, NC 21609
LICENSE: C-1287, PHONE: 914-9-78-1617
PROJECT # 21-2282 GR

\* Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or sofety precautions.
Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Fallure to do so will vold Southern Engineer's liability.
Seal is valid for a project permitted within one year from date of seal.
Use of these plans constitutes approval of terms & conditions as defined in the customer agreement. STRUCTURAL DESIGN BY:

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

TRUSS SYSTEM REQUIREMENTS NC (2018 NCRC): Wind: 115-120 mph

- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS)
  SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- 3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).

ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE & Rec Room and Closet REQUIREMENTS AS SPECIFIED ON THE TRUSS

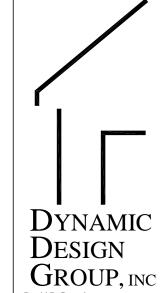
> ATTIC VENTILATION \* 2318 SQ FT OF ATTIC / 300 = 1.73 SQ. FT. OF

PROVIDED (OILLET) 50. FT. PER x 12 LINEAR FT. = 5.04 Sq. FT. (TOTAL OF VENT. LINEAR FT. OF VENT. OF VENT. NLET) 11.20 TOTAL SQ. FT.

\* INCLUDES OPT SCREEN PORCH

ELEVATION "A" ROOF FRAMING PLAN W/ BEDROOM #4 / BATH OPTION

1) SEE SHEET D-1 FOR DETAILS. 2) DIMENSIONS ARE FROM EXT. OF FRAMING TO CENTER LINE OF RIDGE.



David D Grorud (919) 601-1406 DynamicDesignGroup@gmail.com

The crawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern

CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

-28-2 PLAN NAME 7-45GR 287

**SHEET** 

 $\mathbf{\Omega}$ 

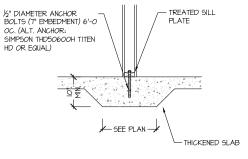
### STRUCTURAL NOTES

NC (2018 NCRC): Wind: 115-120 mph

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD
- BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF RESIDENTIAL CODE, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF CONSTRUCTION MEANS METHODS TECHNIQUES SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT, ALL MEMBERS SHALL BE FRAMED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
- ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, 10 PSF, L/360) SLEEPING ROOMS: (30 PSF, 10 PSF, L/360)
- ATTIC WITH PERMANENT STAIR: (40 PSF, IO PSF, L/360)
- ATTIC WITHOUT PERMANENT STAIR: (20 PSE 10 PSE 1/360)
- ATTIC WITHOUT STORAGE: (IO PSF, IO PSF, L/240)
- STAIRS: (40 PSE 10 PSE 1 /360)
- EXTERIOR BALCONIES: (60 PSF, IO PSF, L/360)
- DECKS: (40 PSF, IO PSF, L/360) GUARDRAILS AND HANDRAILS: (200 LBS)
- PASSSENGER VEHICLE GARAGES: (50 PSF, IO PSF, L/360) FIRE ESCAPES: (40 PSF, IO PSF, L/360)
- 4. WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- 5. SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS, ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +-30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF I/D. (I.E. 4" CONCRETE SLABS SHALL HAVE  $\frac{1}{4}$ " DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +- $\frac{1}{2}$ 0" x +- $\frac{1}{2}$ 0" or RID).
- ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT
  A GEOTECHNICAL ENGINEER AND THE STRUCTUAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED, THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAINSURFACE WATER AWAY FROM FOUNDATION WALLS.
- 8. ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) = 425 PSI - MIN).
- L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 P5I, Fv=265 P5I, E=1,9xi0 P5I.
   P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 P5I, Fv=290 P5I, E=2,0xi0 P5I.
   L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 P5I, Fv=400 P5I, E=1,55xi0 P5I. INSTALL
- IO. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- II. ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH, PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (I/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 40" O.C. ALL STEEL TUBING SHALL BE ASTM A500. LAP ALL REBAR SPLICES 30 BAR
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.

ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS

- 13. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A325) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS
- I4. BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 I/2"x3 I/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0". SEE PLANS FOR SPANS OVER 9'-0". SEE ALSO SECTION R703.7.3 LINTELS.

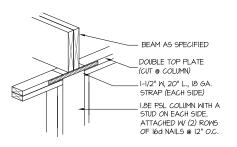




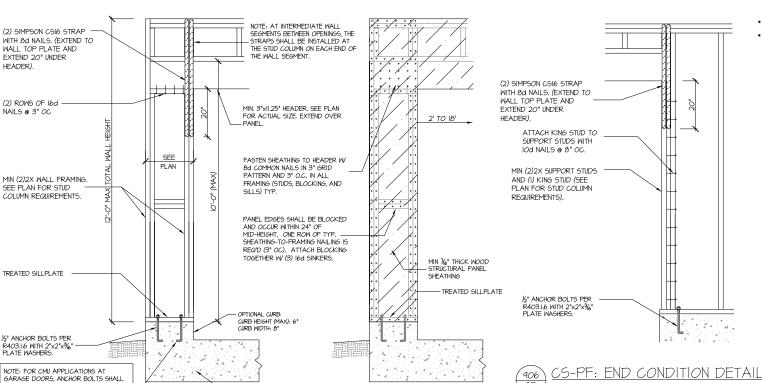
BE %" DIAMETER AND SHALL EXTEND TO FOOTING (PER NORG FIGURE R602.10.4.3

(SEE GARAGE "WING WALL" DETAIL ON

STRUCTURAL PLANS)







EXTERIOR VIEW

CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION DETAIL AND APPLICATION BASED ON NORC FIGURE R602.IO.I - PORTAL FRAME CONSTRUCTION

INTERIOR VIEW

FOOTING / FOUNDATION (SEE



STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC 27609 LICENSE: C-1287, PHONE: 919-878-1617

AMERICAN INSTITUTE BUILDING DESIGN LICENSE: C-1287, FHONE: qila-878-1617
PROJECT # 21-2282 GR

Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.

Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability 5 Seal is valid for a project permitted within one year from date of seal.

Use of these plans constitutes approval of terms & conditions as defined in the customer agreement. **DYNAMIC DESIGN** 

PROFESSIONAL MEMBER

BD

A

David D Grorud (919) 601-1406 DynamicDesignGroup@gmail.com

GROUP, INC

The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justificatio Once construction has commenced, the contractor shall assume all responsibility

Dimensions govern over scale, code govern over dimension

PROJECT FOR: CITY HOMES

LOCATION: MULTI LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

 $\sim$ DATE  $\infty$ 2 NAME **PLAN** S

SHEET

 $\infty$ 2

B

2x6 WALL FRAMING OPTIONAL WALL PLATE MAY COUNTERSINK BOLT IN OPTIONAL PLATE. TREATED SILLPLATE GARAGE SLAP OPTIONAL BRICK %" THREADED ROD WITH 2" OR SIMPSON "SET OR SET-XP" FPOXY CONCRETE FOOTING (SEE

(FOR USE WITH SINGLE CS-PF CONDITION)

R602.IO.I - PORTAL FRAME CONSTRUCTION

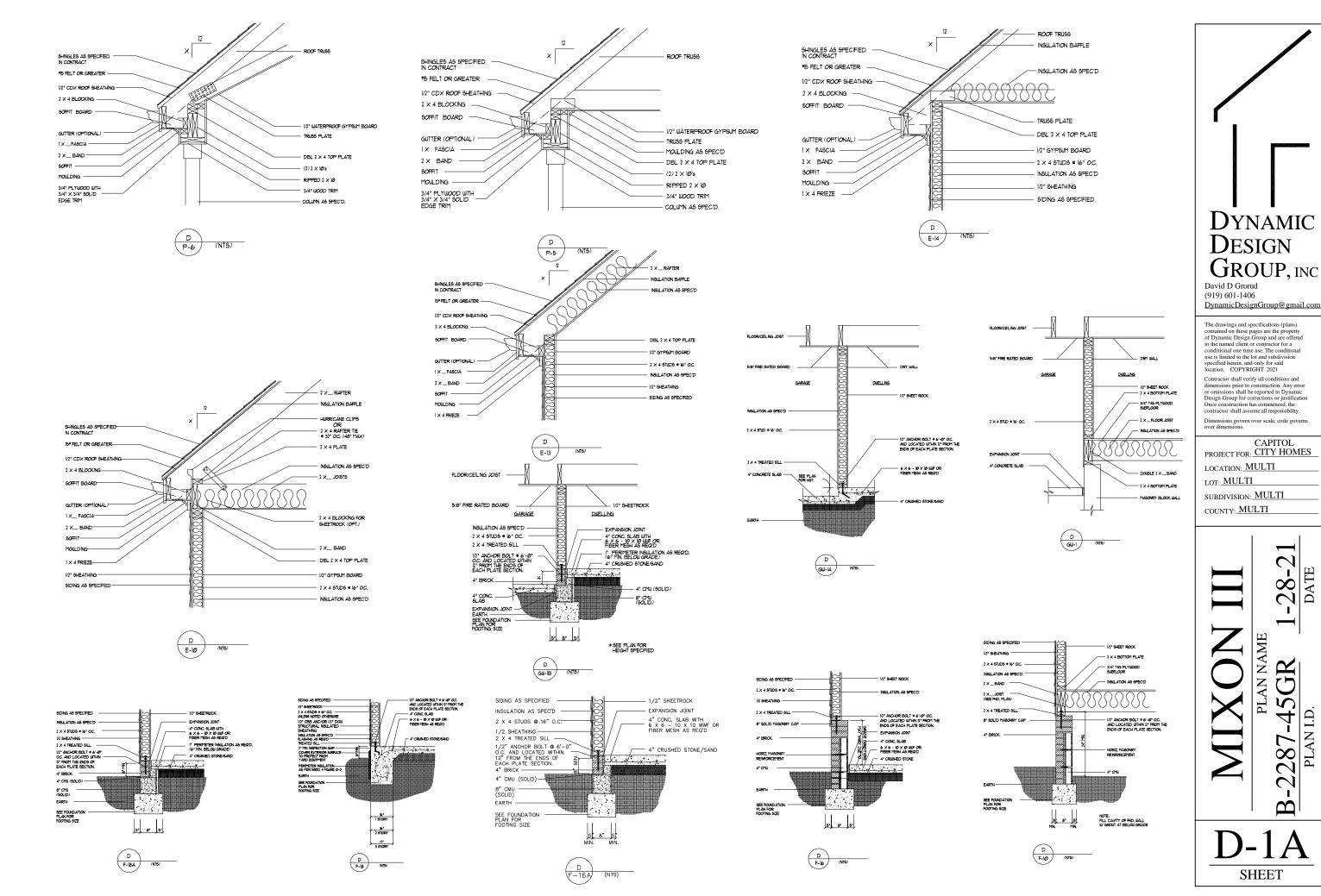
DETAIL AND APPLICATION BASED ON NORC FIGURE

SECTION **ELEVATION** 

PER IRC FIGURE R602.10.4.3

GARAGE 'WING WALL' REINFORCING

" CONC. COVER (TYP)



CAPITOL

2

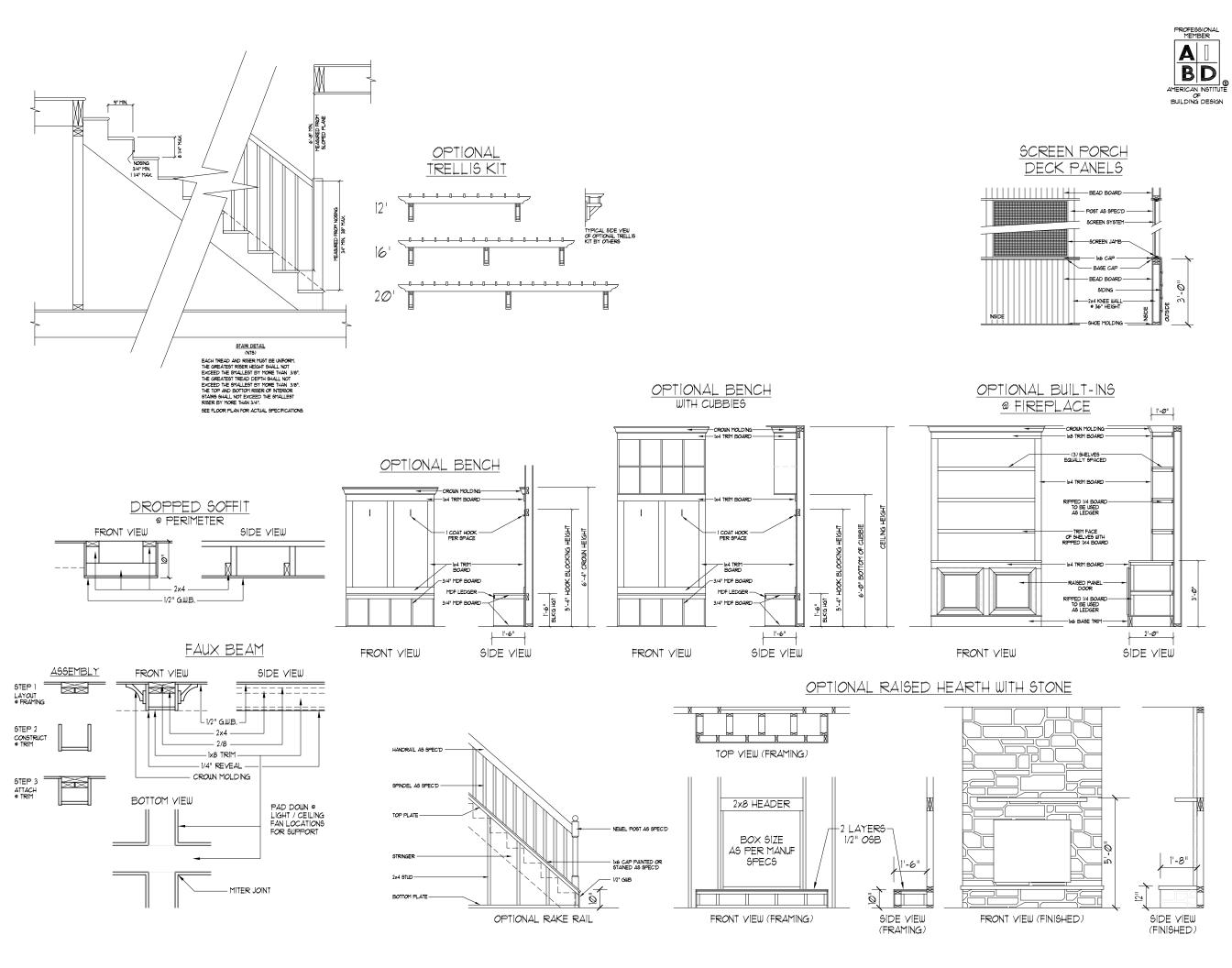
45

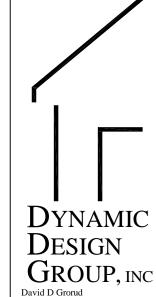
28,

B

PLAN I.D.

28-2 DATE





(919) 601-1406 DynamicDesignGroup@gmail.com

contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2021

Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

Dimensions govern over scale, code govern

CAPITOL PROJECT FOR: CITY HOMES LOCATION: MULTI LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

.28-2 DATE PLAN NAME 7-45GR 287

**SHEET** 

PLAN I.D.

5

 $\mathbf{B}$