ISSUAVE OF PLAYS FROM THIS DRAFTER'S CHICE SHALL NOT PELEVE THE BUILDER OF RESPONSIBILITY TO REVEW AND VERRY ALL NOTES, DYENSIONS, AND ACHERINGE TO APPLICABLE BUILDING CORES PROVE TO CATTENEETED OF ANY CONSTRUCTION.

ANY DISCREPANCY OF ERROR NOTES, DYENSIONS, OR ACHERINGE TO APPLICABLE BUILDING CORES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S CHICE FOR CORRECTION DEFORE COTTENEDED OF ANY CONSTRUCTION.

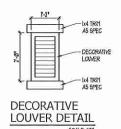
ANY REVISION OR CHAVES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE THOSE AFTER THE FINAL PLAYS HAVE BEEN CONFILETED SHALL BE SUBJECT TO ADDITIONAL HESS.

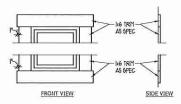
FAIT YOUR CANDINGS ARE THOSE TO THESE PLAYS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S CHICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.



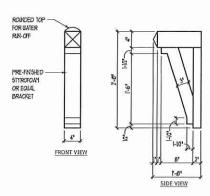
# **Approved**

11/27/2019BSutton

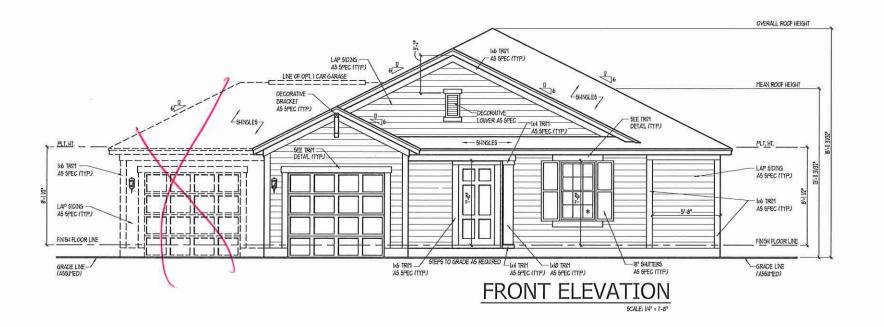




TRIM DETAIL



BRACKET DETAIL









30000008 HOMES **EMBARK** 

1724

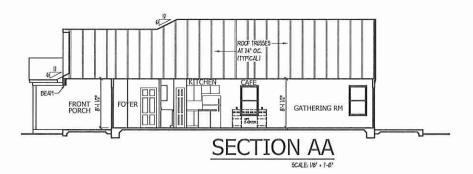
**ELEVATION "A" - TRADITIONAL GARAGE LEFT** 

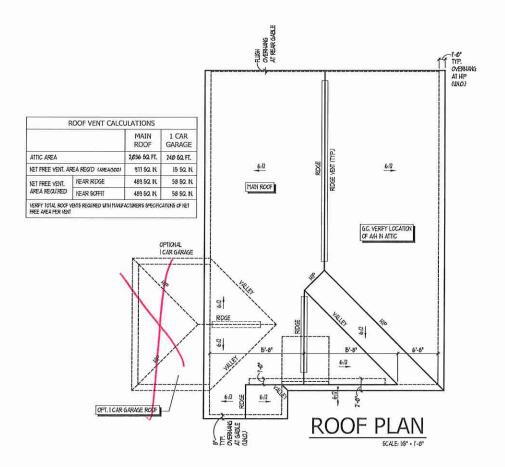
ISSUANCE OF PLANS FROM THIS DRUFTERS OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVISED AND VERRITY ALL NOTES, DIPENSIONS, AND ACHERINCE TO APPLICABLE BUILDING CODES PRIORS TO CONTRECTION OF ANY CONSTRUCTION.

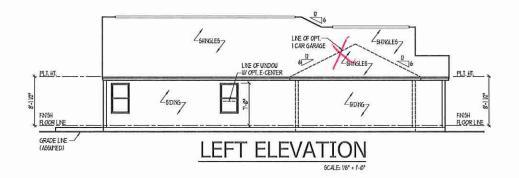
ANY DISCORPANCY OF ERROR NOTES, DIPENSIONS, OR ACHERINCE TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTRIBUTION OF THE DRUFTERS OFFICE FOR CORRECTION BEFORE CONTRECTION OF THE ATTRIBUTION.

ANY REVISIONS OR CHANCES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE. AFTER THE FINAL PLANS HAVE BEEN CONTRETED SHALL BE SUBJECT TO ADDITIONAL TIES.

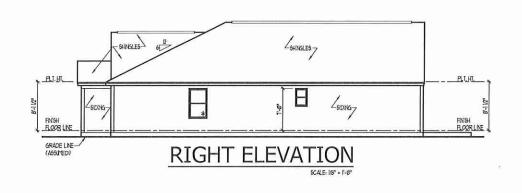
IF ANY TOODICATIONS ARE TAGIO TO THEE FLANS BY ANY OTHER PARTY OTHER THAN THE DRUFTERS OFFICE, THE DRUFTERS SHALL NOT BE HELD RESPONSIBLE.















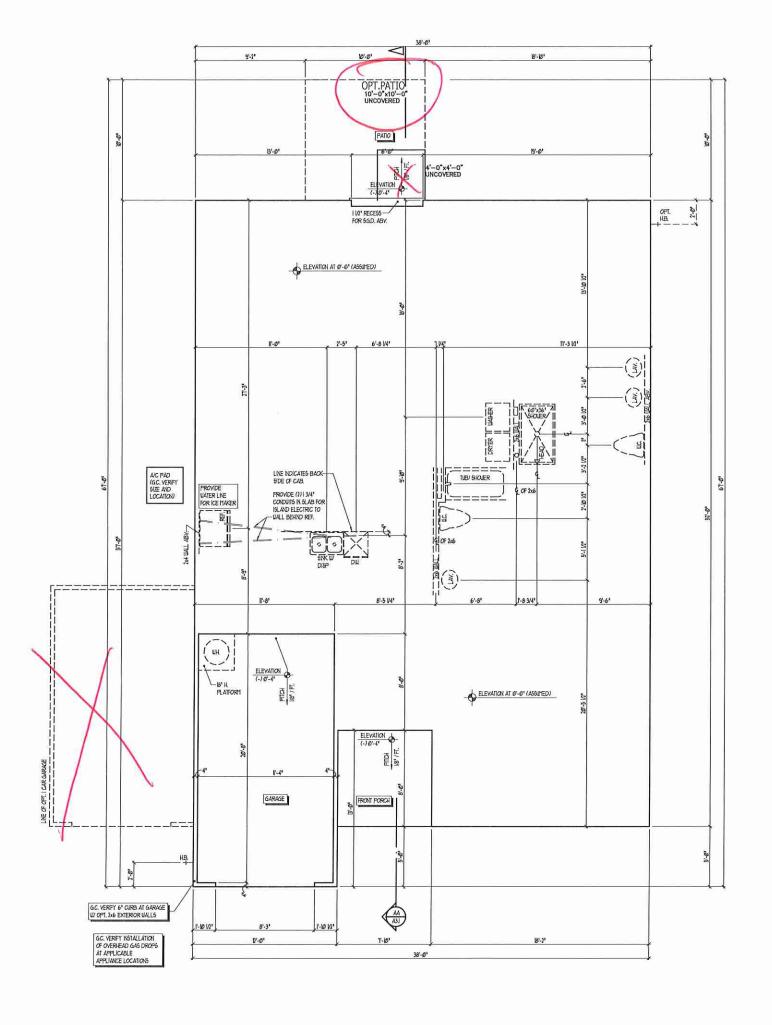


HOMES **EMBARK** H&H

1724

• TITLE
SIDE AND REAR ELEVATION:
ROOF PLAN
BUILDING SECTION

ELEVATION "A" - TRADITIONAL GARAGE LEFT









HOMES **EMBARK** H&H

1724

• TITLE SLAB INTERFACE PLAN

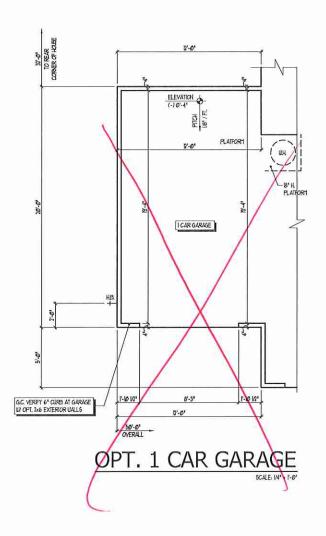
SLAB INTERFACE PLAN
GARAGE LEFT

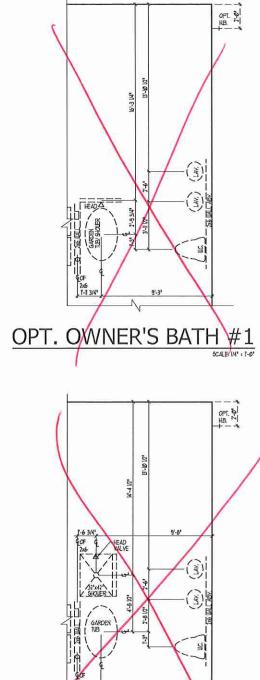
ISSUAVE OF PLAYS FROM THIS DRAFTERS OTFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERRY ALL NOTES, DYENSIONS, AND ADJECTMENT OF APPLICABLE BUILDING CODES PRIOR TO COMPENCETON OF ANY CONSTRUCTION.

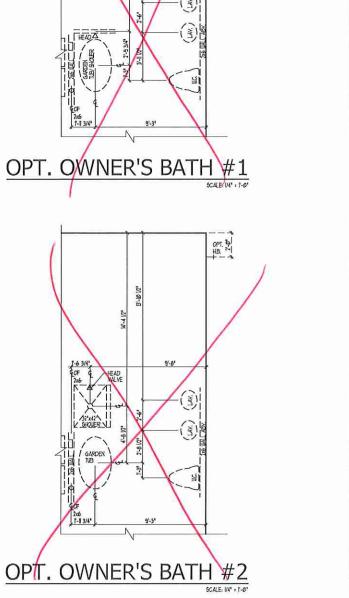
ANY DISCORPANCE OF ERROR IN NOTES, DYENSIONS, OR ADJECTMENT TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OTFICE FOR CORRECTION BEFORE CONTEXEMENT OF ANY CONSTRUCTION.

ANY REVISIONS OR CHANGES NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FINAL PLAYS HAVE BEEN CONFILED SHALL BE BUSINET TO ADDITIONAL FIELS.

FAIN TOODFICATIONS ARE THAZE TO THESE PLAYS BY ANY OTHER PARTY OTHER THAY THE DRAFTERS OTHCE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.







HOMES **EMBARK** H&H

DAVIS BEWS DESIGN GROVP

TAMPA • DENVER DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

1724

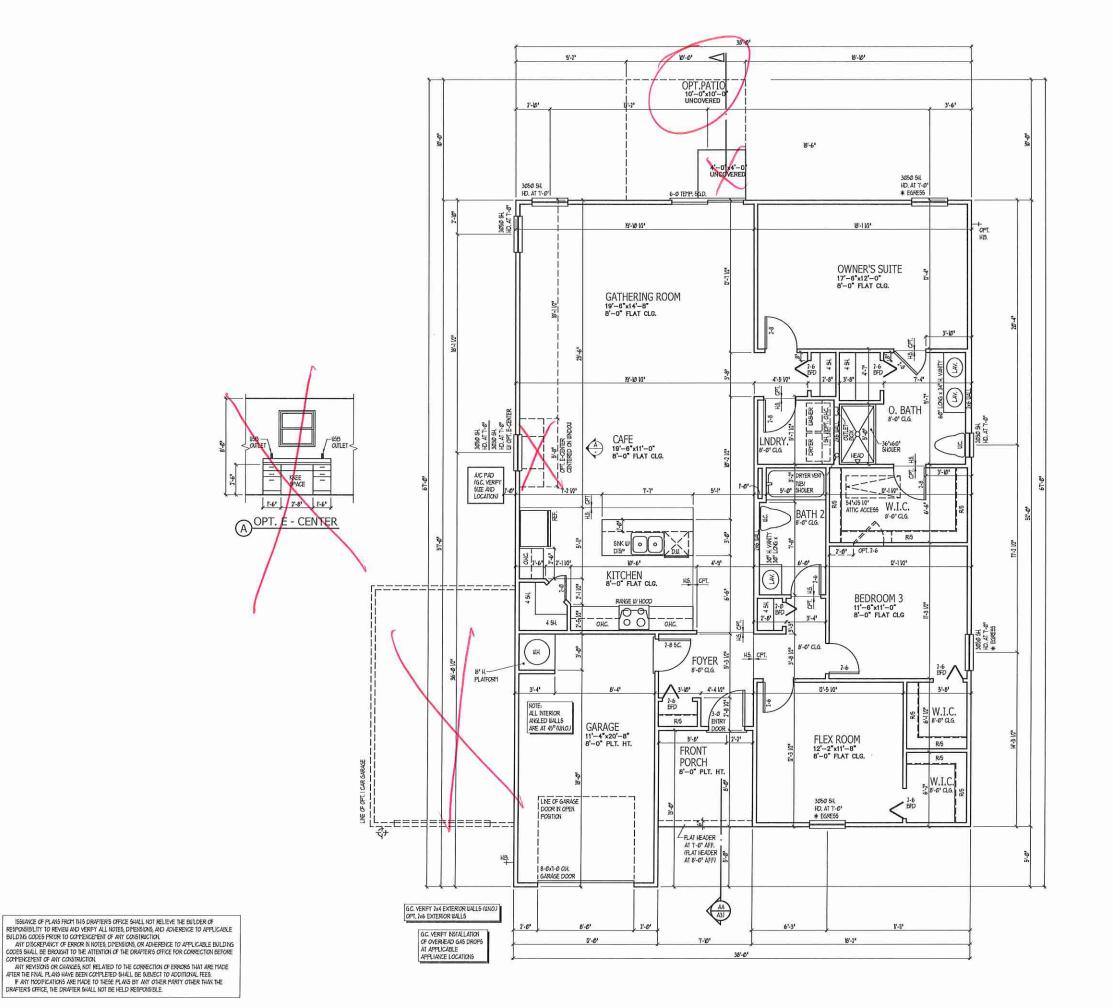
SLAB INTERFACE PLAN AT PLAN OPTIONS

SLAB INTERFACE AT PLAN OPTIONS GARAGE LEFT

ISSUACE OF PLAYS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVISE AND VERRY ALL NOTES, DIPENSIONS, AND ADMERSIVE TO APPLICABLE BUILDING CODES PRIOR TO CONTRIBUTION OF THE ADMERSIVE OF APPLICABLE BUILDING CODES SHALL BE BRANKINT TO THE ATTRIBUTOR OF THE PRAFTER'S OFFICE FOR CORRECTION EFFORE COTTENCED IN OF ANY CONSTRUCTION.

ANY REVISIONS OR CHARLES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FINAL PLAYS HAVE BEEN COTTENED SHALL BE SUBJECT TO ADDITIONAL TIES.

FAILY PROPRIEDATIONS ARE TAKED TO THEER PLAYS BY ANY OTHER PARTY OTHER THAN THE DRAFTERS OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.









EMBARK H&H HOMES

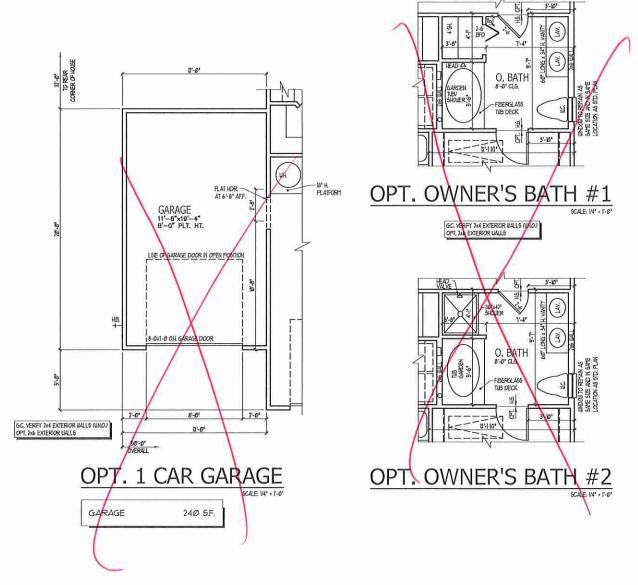
1724

LIVING	1724	9
I CAR GARAGE	249	S
PATIO(UNCOVERED)	80	S
FRONT PORCH	63	S
TOTAL SQ. FT.	2116	S





A2.0









**EMBARK** 

1724

PLAN OPTIONS

GC, VERIFY INSTALLATION OF OVER-EAD GAS DROPS AT APPLICABLE APPLIANCE LOCATIONS

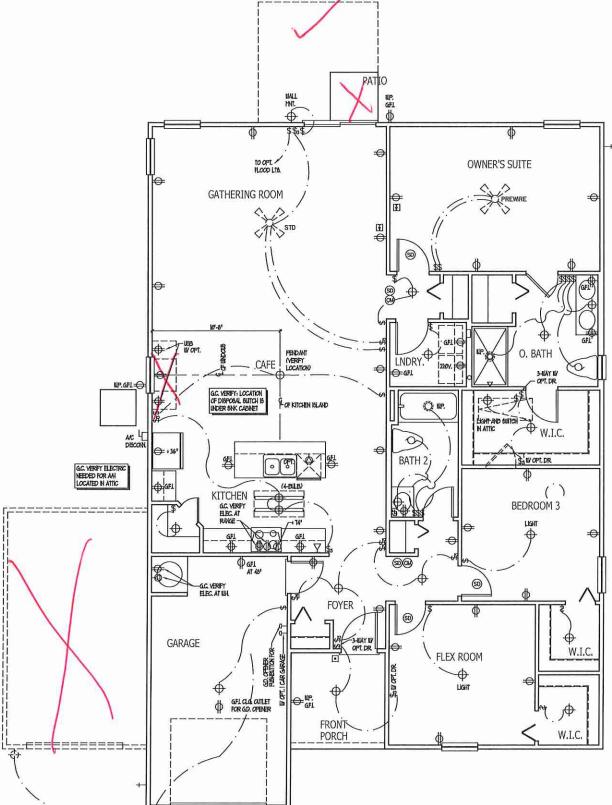
REFER TO STAYDARD PLAN FOR INFORMATION NOT SHOUN

PLAN OPTIONS GARAGE LEFT

ISSUAVCE OF PLAYS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERRY ALL NOTES, DYENSIONS, AND ADJERBICE TO APPLICABLE BUILDING CODES FROM TO CONTRICTION OF ANY CONSTRUCTION.

ANY DISCORPANCY OF ERROR NOTES, DYENSIONS, OR ADJERBICE TO APPLICABLE BUILDING CODES SHALL BE BROWNED TO THE ATTENTION OF THE OFFICE OFFICE OF CORRECTION EFFORE CONTRICTION OF ANY TOWNS OF CHAVES, NOT BELLATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE RIVAL PLAYS HAVE BEEN CONTRICTED SHALL BE SUBJECT TO ADDITIOUAL FIELS.

FARY THOOPICATIONS ARE TAKED TO THESE PLAYS BY ANY OTHER PARTY OTHER THAN THE DRAFTERS OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.









SHEET ARE ONE HALF THE SCALE NOTED

K EMB/

1724



**ELECTRICAL PLAN GARAGE LEFT** 

## ELECTRICAL KEY

- HE: DUPLEX COMMENDE CUTILET
- DUPLEX CUTLET ABOVE COUNTER HE LEATHERFROOF DUPLEX CUILET
- HOLE CHARGE CHILET CHILET CHILET

  HOLE CHECKLE PROPOSE CHILET

- DUPLEX CUTLET N FLOOR
- WALL SWITCH
- THREE-WAY BUTTCH FOUR-WAY BUTCH
- SO DIMER SUTCH
- CELLING HOLNTED INCANDERCENT LIGHT FIXTURE
- WALL HOWITED INCANDESCENT LIGHT FIXTURE
- RECESSED INCANDESCENT LIGHT FIXTURE

- ← LIGHT FATURE UTH FULL CHAN
   ← TRACK LIGHT
   ← FLIOREACHT LIGHT FATURE
   ← ENAUGH FAN
- EXHAUST FANALIGHT COMBINATION ELECTRIC DOOR OPERATOR (OPTIONAL)
- CHIMES (OPTIONAL)
- PUBLICATION SUITCH (OPTIONAL)
- CARBON HONOXIDE DETECTOR
- © SHOKE DETECTOR

  © O SHOKE / CARBON HONO, COMBO DETECTOR

  I TELEFHONE (OPTIONAL)
- 1 TELEVISION (OPTIONAL) THERMOSTAT
- ELECTRIC HETER
- BLECTRIC PANEL - DISCONECT SUTTON
- ⊗ SPEAKER (OPTIONAL)
- POLICEL N FOR OPT, CELLING FAN

# CELING HONTED INCANDERCENT LIGHT FIXTURE IV

I. PROVIDE AND INSTALL <u>GROUD FALLT CIRCUIT-NTERRIPTERS)</u> (GFL) AS INDICATED ON FLANS OR AS TIEN NO. 4 AND 5 BELOSI NOICATES.

2. UNLESS OTHERWISE NOICATED, INSTALL SUTCHES AND RECEPTACLES AT THE FOLLOWING NEXTERS ABOVE THANKED FLOOR SUTCHES.....41\*
OUTLETS......W\*

TELEPHONE . M' (INLESS ABY COUNTERTOP)
TELEVISION . M'

3. ALL BYCKE DETECTORS SHALL BE HARDURED NIO AN ELECTRICAL POLER SOURCE AND BUILL BE BOUFFED WITH A HONTORED BATTERY BACKLP. FROVIDE AND NISTALL LOCALLY CERTIFED <u>BYCKE DETECTORS</u>.

4. ALL BA AND 26A RECEPTACLES IN SCIENTING ROCHS, FAFILT ROCHS, DRING ROCHS, LIMMS ROCHS, PARLORS, LERARIES, DRIS, SUNSCRIM, RECREATION ROCHS, CLOSETS, MULTURS, AND BHILLAY AREAS ULL, REQUIRE A COPENATION THE AFFIL DEVICE AND TAPPER-PROCE RECEPTACLES FER NEC. 20146611 AND 40615

5. ALL BA AND 20A BOY RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROCH'S SHALL BE GECL PROTECTED (GE)).

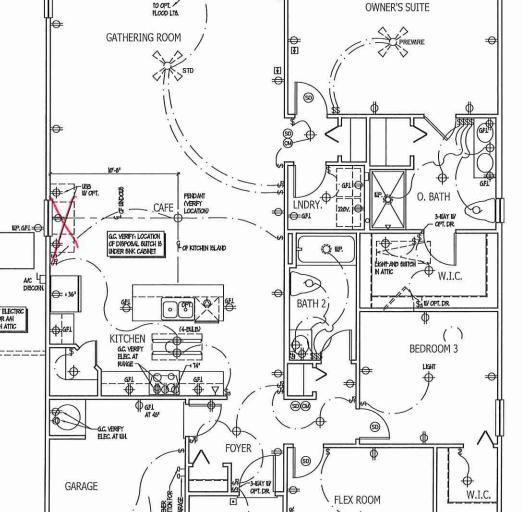
6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO ENAIGE THAT ALL ELECTRICAL LOOK IS IN RILL COMPLIANCE WITH NEPA TO, NEC. 201, FECR - 5TH EDITION (2014), AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

1. EMERY BULDN'S HAM'S A FOOLL-REL-BURN'S HEATER OR AFFLIANCE, FRETLACE, OR MATIAGED GARAGE SHALL HAM'S AN OFFENTIONAL CARBON KONONGE DETECTOR NOTALLED WITHIN 10 HEFT OF EACH ROOM USED FOR OLDEPNIS RUPCOES.

8. ALAPIS SHALL RECEIVE THEIR PRIVARY POUER RICH THE BILLDING URING UHEN BUCH URING IS BERAED RICH THE LOCAL POUER WILLTY. BUCH ALAPIS SHALL HAVE BATTERY BACARD, COTEMATION SKYEICARBON HOMOODE ALAPIS SHALL BE LINTED OR LABELED BY A NATIONALLY RECORDED TERMS LABORATION?.

ISSUACE OF PLAIS FROM TIAS DRAFTERS OTHCE SWALL NOT RELEVE THE BUILDER OF REPORTS ALL NOTES, DYTHINOUS, AND ADMERSIVE TO APPLICABLE BUILDING CODES PROOF TO COTHENDED OF ANY CONSTRUCTION.

ANY DISCORDED FROM TO REPORT IN JOINE, DYTHINOUS, OR ADMERSIVE TO APPLICABLE BUILDING CODES SWALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OTHCE FOR CORRECTION EFFORE COTHENDED OF ANY TO PLAIN AND THE ATTENTION OF THE OFFICE OF THE PROOF OF THE THE ATTENT OF THE THINOUS OF CHANGES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE IN ATTENT OF THE MADE IN ATTENT OF THE MADE THAT ATTENT OF THE PARTY OTHER THAN THE DRAFTERS OTHCE, THE DRAFTERS WALL NOT BE HELD RESPONSIBLE.



# ELECTRICAL KEY

DUPLEX COMBIBILIZE CUTLET

DUPLEX CUILET ABOVE COUNTER HEATHERFROOF DUFLEX CUTLET

HOLE GROUND FAILT MIERRIPIER DUPLEX CUILET

HALF-BUTCHED DUPLEX CUTLET
HO SPECIAL PURPOSE CUTLET

DUPLEX CUTLET NILCOR

220 YOLT CUTLET

EVALL SUTTCH

THREE-MAY SUTTON

FOUR-HAY SUITCH \$D DIMER BUTCH

BECERGED NCYNDERCEN! TRRIL HAVINGE
 CETNR! HONLED NCYNDERCEN! TRRIL HAVINGE
 CETNR! HONLED NCYNDERCEN! TRRIL HAVINGE

DESTRUCT THE THIRD THE CONTROL TO THE CONTROL TO THE CONTROL THE C

EXHAUST FAVILIGHT COMBINATION

ELECTRIC DOOR OPERATOR (OPTIONAL) CHIMES (OPTICIAL)

PUBLICATION BUTCH (OPTIONAL) CARBON MONOXIDE DETECTOR

(S) 8HOKE DETECTOR
(S)(S) 8HOKE / CARBON HONO. COMBO DETECTOR

H TELEPHONE (OPTIONAL)

I TELEVISION (OPTIONAL) THERMOSTAT

加 ELECTRIC HETER

HECTRIC PANEL

DISCONNECT BUTTON

SPEAKER (OPTIONAL)

SH3 ROUGH-IN FOR OPT, CEILING FAN CELING HONTED INCANDERCENT LIGHT FORTING IN ROUGH IN FOR OFF, CELING FAN

## NOTES:

I. PROVIDE AND INSTALL GROUND FALL CROUT-INTERRUPTERS (GFL) AS INDICATED ON FLANS OR AS ITEM NO. 4 AND 5 BELOW NOTCATES.

2. INLESS OTHERWISE NOICATED, INSTALL SUITCRES AND RECEPTACLES AT THE FOLLOWING HEISERS AROOSE PRIVATED PLOOPE SUITCRES. ... As "OUTLIETS..........."

TELEPHONE . M' (INLESS ABY COUNTERTOP)
TELEVISION . M'

3. ALL BYCKE DETECTORS SHALL BE HAPDURED NTO AN ELECTRICAL POWER BODIES AND SHALL BE BOUPFED WITH A HONTOKED BATTERY BACKEP, PROVIDE AND NOTALL LOCALLY CERTIFIED SYKE DETECTORS.

4. ALL BA AND 26A RECEPTACLES IN BLEFFING ROCHS, FAVILY ROCHS, DINNS ROCHS, LIMIS ROCHS, PARLORS, LERARES, DEIS, BUNGOTS, RECREATION ROCHS, CLOSETS, HULLING, BAD WHILAY REAS BULL RECREA ACCEPSATION THE AFGL DEVICE AND TAYETE PROCE RECEPTACLES FER NEC. 761 46611 AND 46615

5. ALL BA AND 26A DOY RECEPTACIES LOCATED IN THE GARAGE AND UTILITY ROCK'S SHALL BE GECL PROTECTED (GELL

6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAN TO ENSURE THAT ALL ELECTRICAL LICRX IS IN RULL COMPLIANCE LITH NEPA 10, NEC. 201, FEICR - 5TH EDITION COSH), AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

LEMENT BULLDN'S HAVN'S A FOOLL-REL-BURN'S HEATER OR APPLIANCE, FREFLACE, OR MATACIED GARACE BUILL HAVE AN OFERATIONAL CARBON HONDORE DETECTOR NOTALLED WITHIN 10 HEFT OF EACH ROCKT WED FOR ELEPTING REPORTED.

A JUAN'S SHULL RECEIVE THEIR PRIVARY POUER RECHT THE BUILDNS UIRNS LIVEN BUCH URNS IS BERYED RECHT THE LOCAL POUER WILLTY, BUCH JUANES SHULL HAVE BATTERY BUCHER COTEMANTA ORGOCACRES HORKOODE JUANES SHULL BE LISTED OR LABELED BY ANATICAVILLY RECOGNIZED TESTING LAPORATIONY.

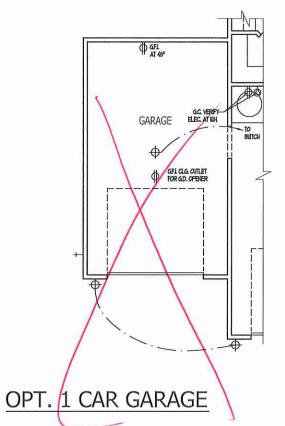
MOUNTED FROM THIS DRAFTERS OTHER SHALL NOT RELEVE THE BUILDER OF RESPONSIBILITY TO REVEN AND MERRY ALL NOTES, DEBNICAS, AND ADTERDACE TO APPLICABLE BUILDING CODES PRIOR TO CONFEDERATIO OF ANY CONSTRUCTION.

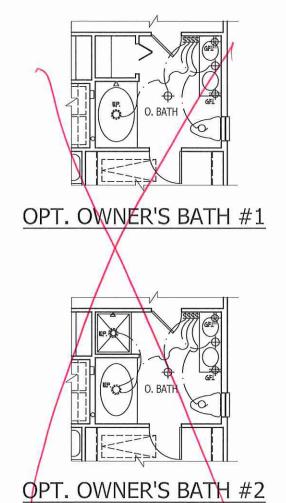
ANY DISCOPPANCY OF BERSON IN NOTES, DEBNICAS, OR ADVERBACE TO APPLICABLE BUILDING CODES MALL BE REQUISIT TO THE ATTENTION OF THE DRAFTER'S OTHER FOR CORRECTION BEFORE CONFEDERATIO OF ANY CONFEDERATION.

ANY REVISIONS OR CHANGES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE.

AFTER THE FINAL IT AND HAVE ERBN CONFEDERATION BUILDING PROPERTY OTHER THAN ITEMS.

FAIR THOOPACHIONS ARE MADE TO THESE IT AND BY ANY CHER PARTY OTHER THAN THE PRAFTERS OTHER, THE DRAFTERS SHALL NOT BE HELD REPONSIBLE.









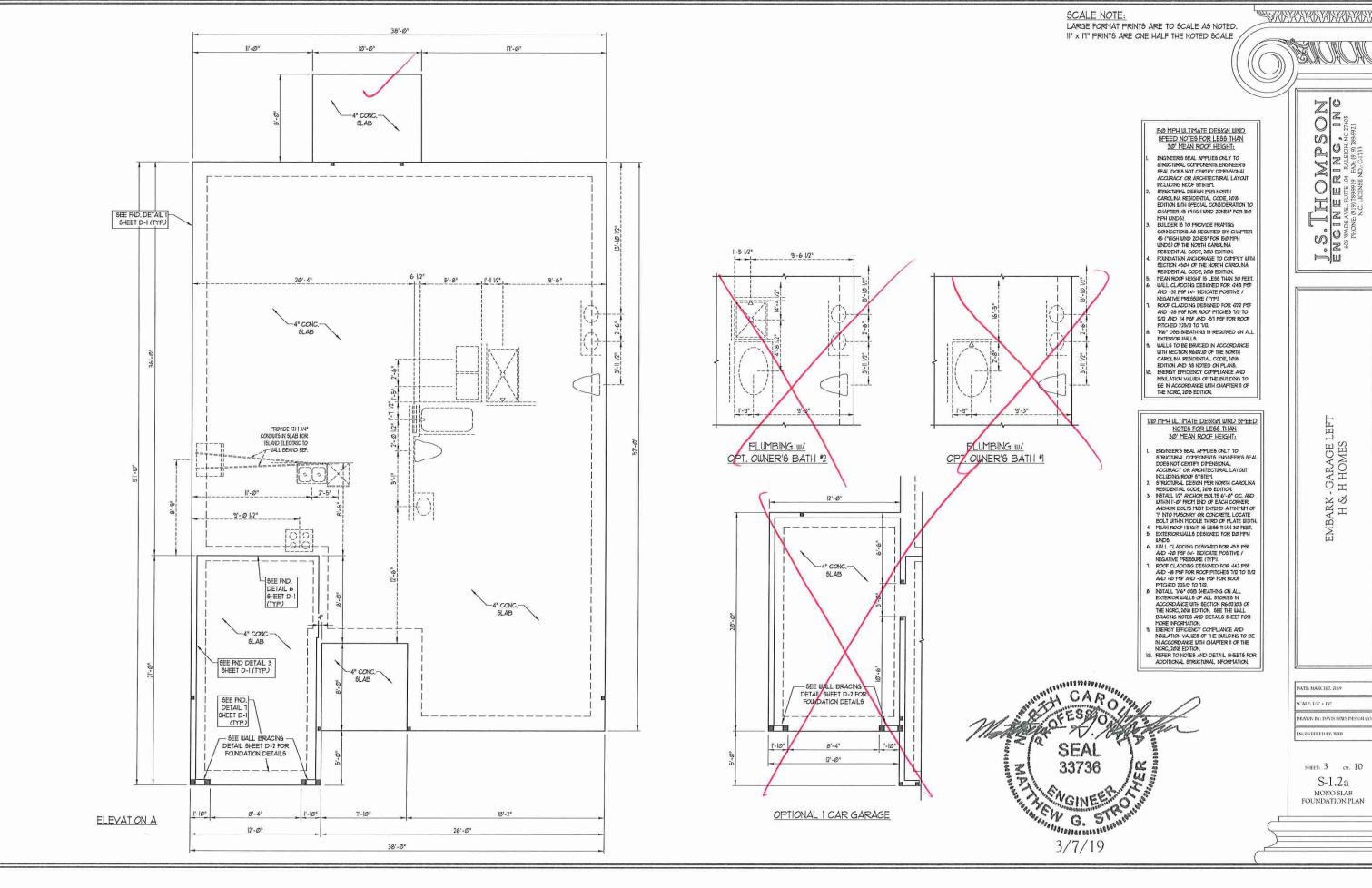


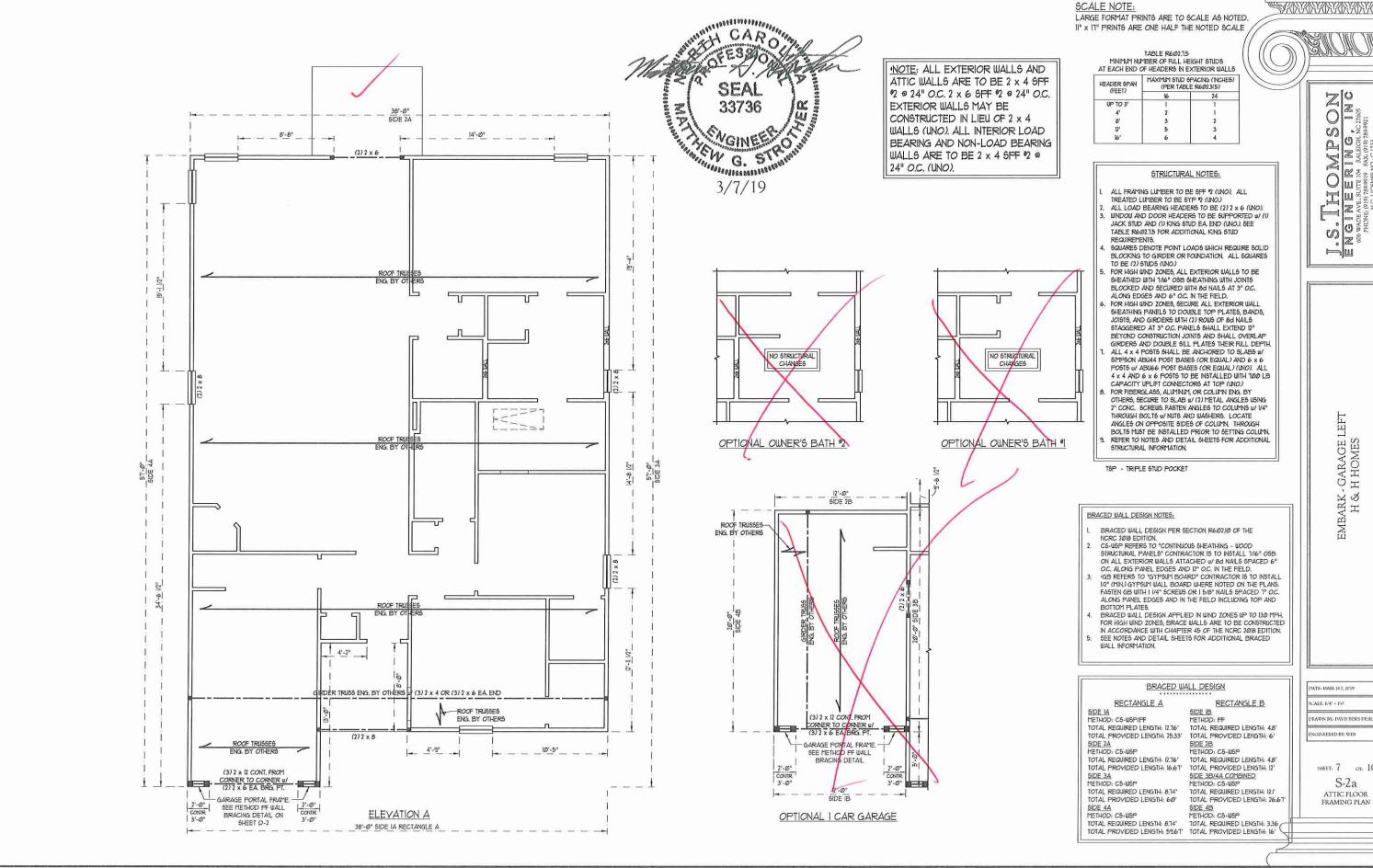
HOMES ARK EMB/ ං්

1724









O S 27605

DRAWN BY: DAVIS BEWS DESIGN O

SHEET: 7 OF 10 ATTIC FLOOR

SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

STRUCTURAL NOTES:

ALL FRAMING LUMBER TO BE 12

ALL FRAMING LUMBER TO BE 12
SFF (UNO).

CIRCLES DENOTE (3) 7 x 4 POSTS
FOR ROCOF SUPPORT.

FRAME DORNER WALLS ON TOP
OF DOUBLE OR TRIPLE RAFTERS.

HIP SPLICES ARE TO BE SPACED
A MIN OF 8'-0". FASTEN
REMBERS WITH THREE ROUS OF
12d NAILS 0 16" O.C. (TYP.)

STICK FRANTE OVER-FRANTED
ROCOF SECTIONS W 2' x 6 RIDGES,
2 x 6 RAFTERS 0 16" O.C. AND
FLAT 2 x 10" YALLEYS OR USE
VALLEY TRUSSES.

FASTEN FLAT VALLEYS OR USE
VALLEY TRUSSES.

FASTEN FLAT VALLEYS TO
RAFTERS 0 OR TRUSSES WITH
SIMPSON H25A HURRICANE TIES 0
31" O.C. MAX. PASS HURRICANE
TIES THROUGH NOTCH IN ROOF
SHEATHING. EACH RAFTER IS TO
DE FASTENED TO THE FLAT
VALLEY WITH A HIN OF (6) 12d
TOE NAILS.

REFER TO SECTION REWZILL OF THE
2018 NCRC FOR REGUIRED UPLIFT
RESISTANCE AT RAFTERS AND
TRUSSES.

REFER TO NOTES AND DETAIL
LEFTER FOR ADDITIONAL

REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

ENGINEERING, INC

EMBARK - GARAGE LEFT H & H HOMES

PATE: MARCH 7, 2019

SCALE 1/4" • 1/0"

ENGINEERED BY: WEB

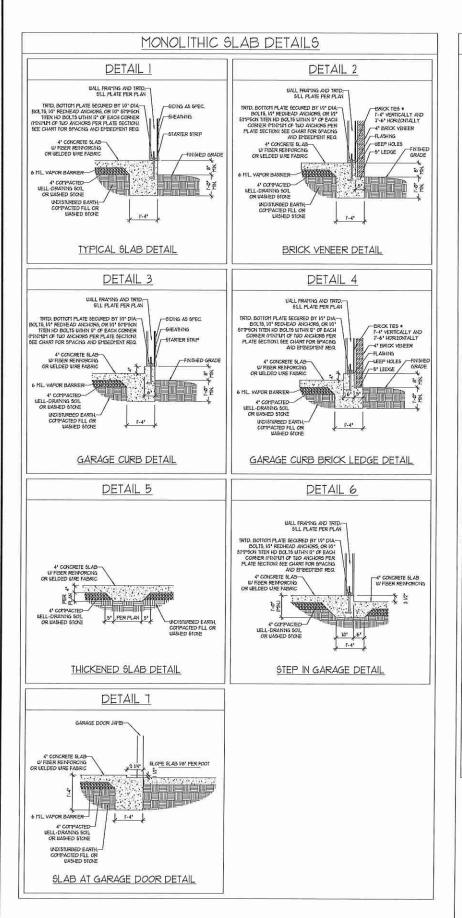
SHEET: 9 OF 10 S-3a ROOF FRAMING

PLAN

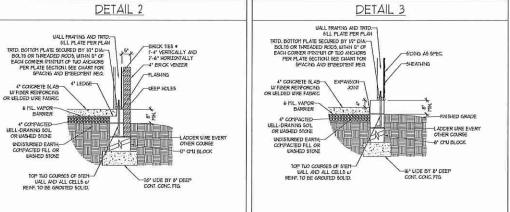
6:12 6:12 LINE OF ROOF W OPT. ROOF TRUSSES | ENG. BY OTHERS | 6:12 GIRDER TRUSS END BY OTHERS TRUSS SUPPORT-ROOF TRUSSES ENG. BY OTHERS ROOF TRUSSES
6:12 ENG. BY OTHERS 6:12

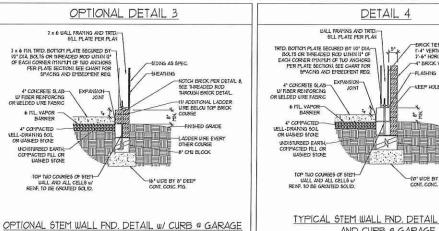
ELEVATION A

EW G. STY 3/7/19



STEMWALL	DETAILS
DETAIL I	OPTIONAL DETAIL I
ULL FRANK AD INID SLL FLATE FER FLAN INID, BOTTOM FLATE ESCREDE BY 10' DIA BOLTS OR INSEADED BY 10' DIA BOLTS OR INSEADED BOOS, MINN D' OF EACH CORRECT MICH OF TIDO ANALICES FER FLATE ESCRICIA ESE CAMEN FOR SPACING AD PERSONENT RO. 4' CORCRETE & A.B. 4' LEDGE OF HOLL WE FORCE BELL DEBNICA SOL COPPACIED NEL PROPERTY OF THE PROPERTY O	LIMITERATING AND TRITO- EST. PLANE FER PLAN  TINID BOTTICH PLANE ECORED BY MY DIA DO, IS OR THREADED PROSE UITHN IN OF EVAL CORRECTION OF CAUSET FOR FOR PLANE SECTION, SEC LAURT FOR FOR SECTION OF THE SEC
TYPICAL STEM WALL DETAIL (W/ OPTIONAL WATERTABLE)	OPTIONAL STEM WALL DETAIL





TYPICAL STEM WALL FND. W/ BRICK DETAIL

	M WALL FND. DETAIL W/ BRICK ND CURB © GARAGE
	DETAIL 8
NSIDE EDGE OF MASONICT STEPMALL.  LADDER WIRE FER DETAIL.  BRICK NASONICT.  CUTSIDE EDGE OF BRICK AND STICK FRAMED WALL ABOVE.  NOTCH BRICK • 1 ROD AND GR	

TYPICAL STEM WALL FND, DETAIL W/ CURB @ GARAGE

LADDER USE EVERY OTHER COURSE

-12" CHU BLOCK

	TIMOOTIST O	TEMWALL SPE	-OII IOAI IOI IO	
WALL HEIGHT (FEET)	MASONRY WALL TYPE			
	8" CMU	4" BRICK AND 4" CMI	4" BRICK AND 8" CMJ	12° CMJ
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
4	GROUT SOLID	GROUT SOLID u/ *4 REBAR # 48* O.C.	GROUT SOLID	GROUT SOLID u/ 4. REBAR # 64* O.C.
5	GROUT SOLID u/ 14 REBAR # 36" O.C.	NOT APPLICABLE	GROUT SOLID w/ *4 REBAR # 36* O.C.	GROUT SOLID u/ ** REBAR # 64* O.C
6	GROUT SOLID u/ 14 REBAR = 24" O.C.	NOT APPLICABLE	GROUT SOLID u/ 14 REBAR # 24" O.C.	GROUT SOLID u/ N
6 1 AND GREATER	REBAR # 24" O.C.			REBAR # 64" O

### STRUCTURAL NOTES:

WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.

THE MULTIPLE WITHES TOGETHER WITH LADDER WIRE AT 16" OC. VERTICALLY,
CHART APPLICABLE FOR HOUSE FOUNDATION CALLY, CONSULT BYSINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.

BACKFILL OF CLEAN '51 / '61 WASHED STONE IS ALLOWABLE.

5. BACKFILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (45 PSF-6T BELOW GRADE)
CLASSIFIED AS GROUP I ACCORDING TO WHIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE

CLASSFIED AS GROUP! ACCORDING TO WHIED SOURS CLASSFIED AS GROUP! ACCORDANCE WITH TABLE RADIO OF THE 708 INTERNATIONAL RESIDENTIAL. CODE ARE ALLOWABLE.

6. FREP BLAB FER RESØ621 AND RSØ622 BASE OF THE 2010 INTERNATIONAL RESIDENTIAL CODE.

MINTWIT 14' LAP SPLICE LENGTH.

1. LOCATE REDAR IN CENTER OF FOUNDATION WALL.

3. WHERE REGUIRED, FILL BLOCK SOLID WITH TYPE '5' MORTAR OR 3000 PSI GROUT, USE OF 'LOW LIFT GROUTING' METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

AN	ICHOR SPACING AND	EMBEDMENT
WIND ZONE	120 MPH	130 MPH
\$PACING	6'-0' O.C.	4'-0' O.C.
EMBEDMENT	D.	15" INTO MASONRY 1" INTO CONCRETE



ZZZ 0 S. THOMPS ENGINEERING, 608 WADE AVE. SUTE ION RALEIGH AV. PHONE, OLION TANKET

ANYANYANYANYANY

SPEED WIND MPH ULTIMATE DESIGN FOUNDATION DETAILS 130

DATE: NOVEMBER 14, 2018

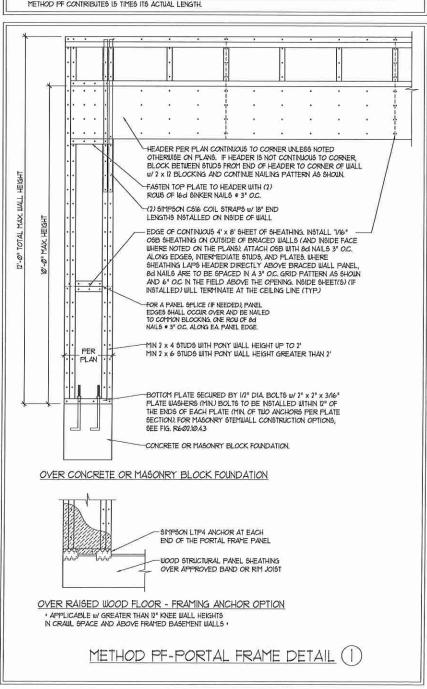
SCALE: NTS

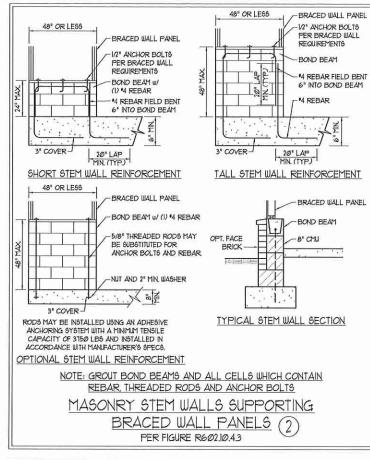
ENGINEERED BY IES

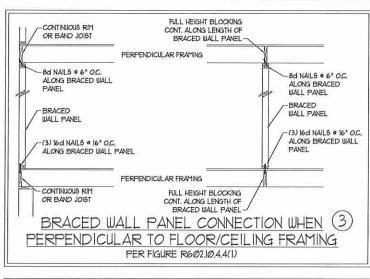
D-1 FOUNDATION DETAILS

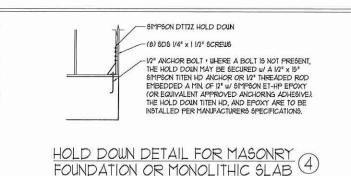
# GENERAL WALL BRACING NOTES:

- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NORG.). TABLES AND FIGURES REFERENCED ARE FROM THE 2010 NCRC.
  SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2010 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
- BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R60235 (3), WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE.
- SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIFFUSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
- ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602103 UNLESS NOTED OTHERWISE.
- ALL EXTERIOR AND INTERIOR WALLS TO HAVE I/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R10235, METHOD GB TO BE FASTENED PER TABLE R602101
- CS-USP REFERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PAVELS" WALL BRACING METHOD. 1/16" O'SB SHEATHING 15 TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W/ 6d COMMON NAILS OR 8d (2 1/2" LONG x Ø.113" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UN.O.).
- GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN) GYPSUM WALL BOARD 15 TO BE INSTALLED ON BOTH 61DES OF THE BRACED WALL FASTENED WITH 1 V4" SCREWS OR 1 5/8" NAILS SPACED 1" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UND.) VERIEY ALL FASTENER OPTIONS FOR IO! AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R10235. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R6023(I). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R607, IO3, METHOD C6-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD FF CONTRIBUTES IS TIMES ITS ACTUAL LENGTH

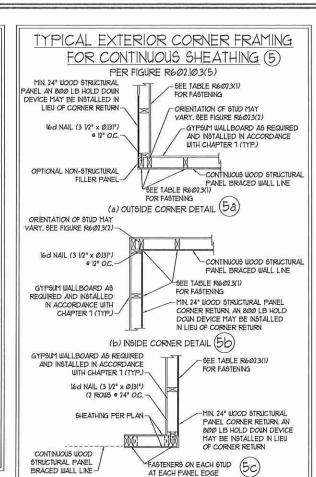








· APPLICABLE ONLY WHERE SPECIFIED ON PLAN ·



LARGE FORMAT PRINTS ARE TO SCALE AS NOTED II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE KING STUDS BETWEEN GARAGE UFADERS PER PLAN GARAGE HEADER PER PLAN VERTICAL STRAPS PER PORTAL FRAME DETAIL JACK STUDS SUPPORTING HEADERS FER PLAN PORTAL FRAME CONNECTION DETAIL BETWEEN GARAGE DOOR HEADERS (REFERENCE PORTAL FRAME DETAIL FOR ALL OTHER PORTAL FRAME INFORMATION)

SCALE NOTE:

BRACED WALL PANEL (8) CONNECTION TO PERPENDICULAR RAFTERS PER FIGURE R602.10.4.5(1) SOLID BLOCKING BETWEEN RAFTERS OR TRUSSES ATTACHED TO TOP PLATES WITH 8d NAILS 6" O.C. ALONG LENGTH OF BRACED WALL PANEL

BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF TRUSSES (9) PER FIGURE R602.10.4.5(3) (OR ALTERNATIVE: FIGURE R602.10.45(2)) 2 x BLOCKING NAILING PER

> DATE: OUTOBER 30, 2018 CALE: 1/4" - 1'0 INFERED BY, IST

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MPH ULTIMATE DESIGN WIND BRACING NOTES AND DETAILS

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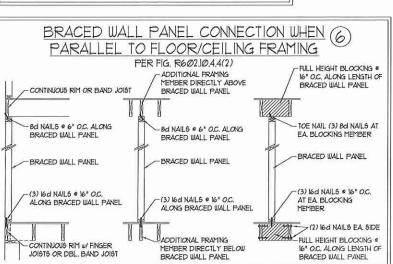
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D-2 BRACED WALL NOTES AND DETAILS AND PF DETAILS

TABLE R6023(1) 6'-0' MAX A PARTITION AND A STREET CARO

SEAL 33736 VGINEER STRO. EW G. 



AT EACH PANEL EDGE

(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

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SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE

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> SPEED WIND 130 MPH ULTIMATE DESIGN STANDARD STRUCTURAL NC

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> STRUCTURAL NOTES

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF, ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, 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 SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE
- STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NORC, 2018 EDITION (R3014 R3011)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L.7.40 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECK5	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/36Ø
PASSENGER VEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/36Ø
SLEEPING ROOMS	30	10	L/360
STAIRS	40	10	L/360
WIND LOAD	(BASED ON TABLE R3Ø12(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pa	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/48/0
- 4. FOR 15 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.16 OF THE NORC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2018 EDITION.

## FOOTING AND FOUNDATION NOTES

- I. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING
- FOR ALL CONCRETE 9LABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL YEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT JUHERE APPROVED THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAYEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAYEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAYEL MIXTURE SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION
- 3. PROFERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE \$1.4B (\$ AT OR BELOW WATER TABLE, IF APPLICABLE, 3/4" - I" DEEP CONTROL JOINTS ARE TO BE SAUED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE
- 4. CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NCRC, 2019 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60.
  WELDED WIRE FABRIC TO BE ASTM A105. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS, FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL. SHALL NOT BE LESS THAN I 1/2" FOR "5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR % BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402, MORTAR SHALL CONFORM
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST OR TYPE M OR \$ MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS,
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R4041.(1), R4041.(2), R4041.(3), OR R4041.(4) OF THE NCRC, 2018 EDITION, CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404JJ(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

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ALL FRAMING LUMBER SHALL BE 12 SFF MINIMUM (Fb = 875 PS), Fv = 375 PS), E = 16000000 PS)) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM (Fb = 915 PSI, Fv =115 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO).

FRAMING NOTES

- 2. LAMINATED VENEER LUMBER (LVL.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FD =2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FC = 2500 PSL E =18000000 PSL PARALLEL 9TRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMM PROPERTIES; Fc = 2900 PSI, E = 20000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES CHANNELS AND ANGLES ASTM A36 PLATES AND BARS: ASTM A36 HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B ASTM A53, GRADE B. TYPE E OR S

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO), PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):

A WOOD FRAMING (2) I/2" DIA x 4" LONG LAG SCREUS B. CONCRETE (2) I/2" DIA x 4" WEDGE ANCHORS

C. MASONRY (FULLY GROUTED) (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM I/ (2) ROUS OF SELF TAPPING SCREUS 4 16" O.C., OR (2) ROUS OF 1/2" DIAMETER BOLTS & 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED W/ (2) ROUS OF 9/16" DIAMETER HOLES # 16" OC.

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION, SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NORG, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING \$TUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK \$TUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.15 OF THE NORTH
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I 1/2" MINIMUM BEARING (UNO), ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3/21) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- II. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR RUSSES OR 1-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UN.O), FOR ALL HEADERS 8"-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED W/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103.82.1 OF THE NCRC, 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT, HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOUN (UNO)
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24\* O.C. BETWEEN ADJACENT ROOF TRUSSES, STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UND.) POSTS MAY BE SECURED USING ONE 91MPSON H6 OR LT912 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF 91MPSON C916 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE

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