

# A CUSTOM DESIGN

# ARIAS

#### STRUCTURAL DESIGN CRITERIA

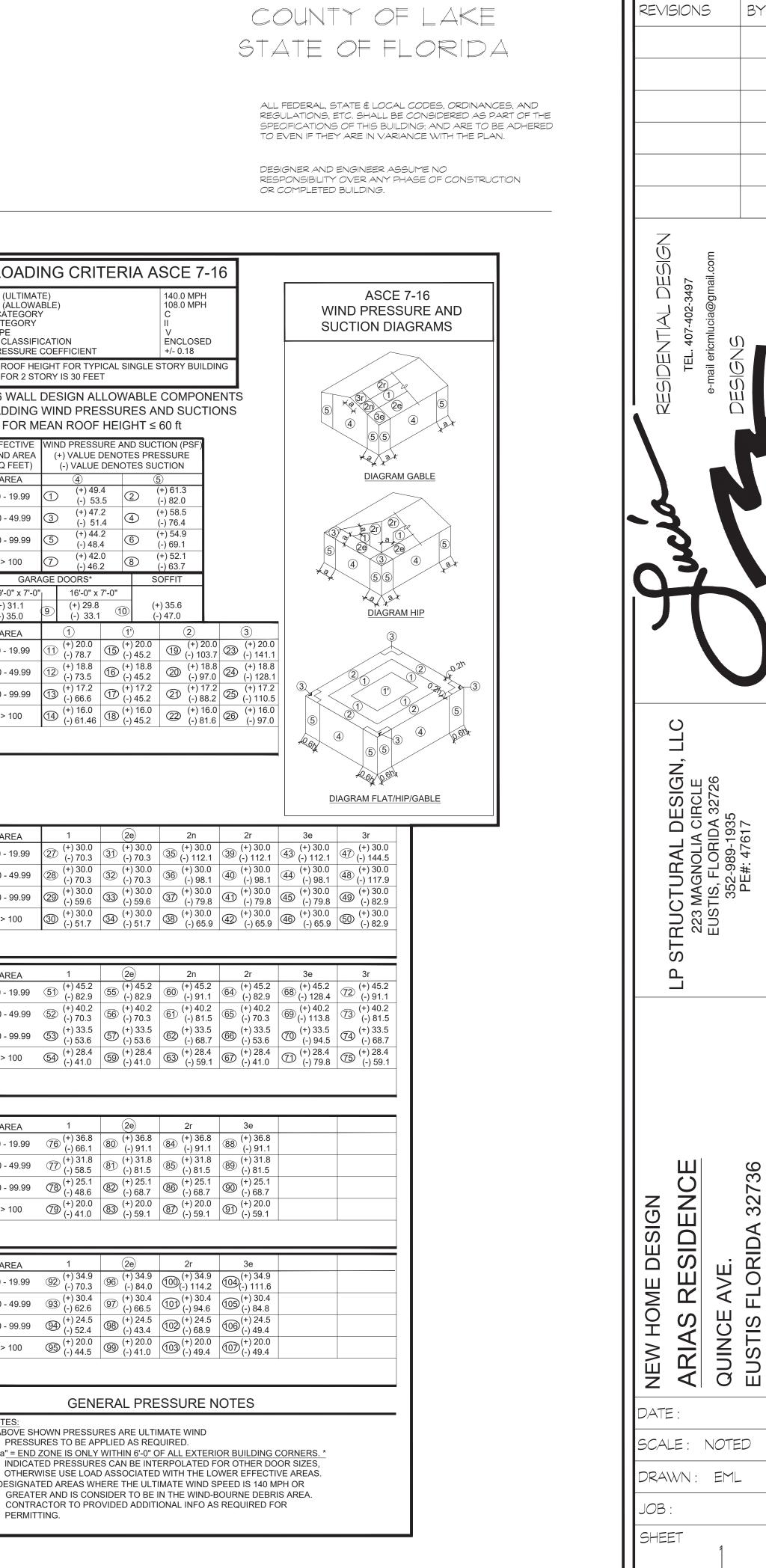
URAL NOTES		L DESIGN CRITERIA	
CONCRETE	CC	DDE CRITERIA	WIND SPEED (ULTIN
STRENGTH AT 28 DAYS OF 3000 PSI (SLABS) 3000 PSI (COLUMNS AND BEAMS), A SLUMP OF 5" IENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.63 S OF ALL TOP BARS OF BEAMS. ND CORNERS OR CORNER BARS WITH A 25" LAP PROVIDED EA WAY. OR 1 1/2" TO FORM U.N.O. 34A / A1064M. WWF SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE 5 ON GRADE TO BE MIN 1.5 LBS OF FIBER PER CUBIC YARD BE NEW DOMESTIC DEFORMED BARS FREE FROM RUST,SCALE & OIL & SHALL MEET ASTM A615/ 5 SHALL BE SUPPORTED ON PRE-CAST CONCRETE PADS, STEEL WIRE OR PLASTIC SUPPORT. TOP 7 TEMPORARY STRINGERS. DOWELS FOR COLUMNS & FILLED CELLS SHALL BE SECURED IN TIED TO FOOTING REINFORCING. SPLICES IN REINFORCING WHERE PERMITTED SHALL BE AS N THE DESIGN OF THIS PRODUCT. IF CONTRACTORS WISH TO USE A DIFFERENT EPOXY, THEY OR WRITTEN APPROVAL. I GAS PREVALENT AREAS, APPENDIX "F" OF THE FLORIDA BUILDING CODE 7TH EDITION (2020) IS IN THESE AREAS ARE TO BE A MINIMUM OF 3000 P.S.I. THEREFORE, ANY AND ALL NOTES ON EPLACED WITH 3000 P.S.I. FOR THE CONCRETE STRENGTH.	BUILDING CODE REQUIREMENT     SPECIFICATIONS FOR STRUCTU     BUILDING CODE REQUIREMENT	DE 7TH EDITION (2020) SSIBILITY 7TH EDITION (2020) CAL CODES. (NEC 2017) & 6TH FBCR CH. 34-43 S FOR STRUCTURAL CONCRETE - (ACI 318-14). RAL CONCRETE - (ACI 301-10). S FOR MASONRY STRUCTURES - (ACI 530-13). ON FOR WOOD CONSTRUCTION - 2015 EDITION. MANUAL 2015 EDITION. CATION 2012 EDITION. NGINEERS: ASCE/SEI 7-16	WIND SPEED (ALLO EXPOSURE CATEGO BUILDING CATEGOF BUILDING TYPE ENCLOSURE CLASS INTERNAL PRESSUF NOTE: MEAN ROOF IS 15FT, AND FOR 2 ASCE 7-16 WAL AND CLADDIN FOR EFFECTIV WIND ARE (SQ FEET AREA
GHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90-014, WITH A MINIMUM NET COMPRESSIVE 270-12A. A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS Y INSPECTIONS ARE REQUIRED DURING CONSTRUCTION E AS NOTED ON THE DRAWINGS WITH THE CELLS FILLED WITH COARSE GROUT.			ST ST ST ST ST ST ST ST ST ST ST ST ST S
HELD IN POSITION AT THE TOP AND BOTTOM AND AT A MAXIMUM SPACING OF 192 DIA OR 10FT ED IN THE CENTER OF THE MASONRY CELL WITH MIN 1/2" CLEARANCE TO INSIDE FACE. S05/L1, UNLESS OTHERWISE NOTED ON THE DRAWINGS. M. PLASTIC SCREEN, METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO PREVENT THE	GENER	AL ROOF LOADING	> 100 GA 9'-0" x 7
T PAPER AS A STOP IS PROHIBITED. VIDE STABILITY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR S SHALL BE ABOVE AND BELOW ALL WALL OPENINGS		SHINGLE METAL TILE HEAVY ROOF (PSF) ROOF (PSF) ROOF (PSF)	(+) 31.1 (-) 35.0
FOR (3) DAYS AND NO CONCENTRATED LOADS FOR (7) DAYS. PER CODE ACI 318-14 IECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL OUT SHALL BE FLUSH WITH TOP OF WALL.	TOP CHORD LL TOP CHORD DL BOTTOM CHORD LL* BOTTOM CHORD DL	20 10         20 10         20 15         20 25           0         0         0         0           10         10         10         10	AREA 0 0 2 10 - 19.99
SHEAR WALLS, AND MISC. STRUCTURAL WOOD FRAMING MEMBERS, (I.E. BLOCKING OR GABLE AN OR IN DETAILS. IF CONFLICTS OCCUR BETWEEN PLAN AND DETAILS, THE STRONGEST O STRUCTURAL FRAMING MEMBERS SHALL BE SPF #2. FOR DRY USE ONLY (MOISTURE CONTENT 19% OR LESS), U.N.O. ALL WATERPROOFING AND THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS IAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIA. SHALL HAVE STUD PROTECTION NES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 STUD SHOES, TYP., U.N.O.	TOTAL (PSF) BOTTOM CHORD LL (OPT) ATTICS W/ LIMITED STORAGE ATTICS W/ HEAVY STORAGE * ATTICS W/ NO STORAGE (NON-CONCURRENT) NOTE: LL REDUCTIONS ARE AL APPROVAL FROM EOR OR INDI	40         40         45         55           20         50         10         Image: second se	20 - 49.99 50 - 99.99 50 - 99.99 50 - 99.99 50 - 100 > 100
CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CT APPROPRIATE CONNECTORS THAT RESIST CORROSION. FOR EXAMPLE, ACQ-C, ACQ-D, STAINLESS STEEL FASTENERS. DOT SODIUM BORATE (SBX) DOES NOT.			
TH OR CONCRETE TO BE PRESSURE TREATED. WITH CONCRETE OR MASONRY. SEAT PLATES SHALL BE PROVIDED AT BEARING LOCATIONS NS IIN VALUES U.N.O.	TOP CHORD LL TOP CHORD DL BOTTOM CHORD LL	40 (PSF) 10 (PSF) 0 (PSF) - (PSF)	<b>1</b>
400 PSI) MIN. WALL AND FLOOR SHEATHING REQUIREMENTS ALONG W/ NAILING INFORMATION OTHERWISE:	BOTTOM CHORD DL SPECIA GAME ROOM / READING ROOM	5 (PSF) L FLOOR LOADING S 60 (PSF) COMMENTS:	AREA 0 10 - 19.99
48/24) SHEATHING SHALL FINISH FLUSH TO EXTERIOR WALL FACE. SURE 1 OR 152" RATED OSB EXPOSURE 1. A MINIMUM/8" SPACE IS RECOMMENDED BETWEEN OR EXPANSION. PER R604.3 SHEATHING SHALL NOT BE USED AS WEATHER RESISTANCE BARRIER	BALCONIES/ DECKS BALCONIES OVER 100 SQ:FT LIGHT STORAGE GUARDRAILS AND HANDRAILS GUARDRAIL IN-FILL COMPONEI STAIRS / NON SLEEPING ROOM SLEEPING ROOMS LIBRARIES - STACK ROOMS	40(PSF) 100(PSF) 125(PSF) 200(LBS)(d) VTS[50 (LBS)(f) 4. A SINGLE CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP. 200(LBS)(d) 5. BALUSTERS AND PANELS FILLERS SHALL BE DESIGNED TO WITHSTAN	и D A 20 - 49.99
JSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE & LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF FORS APPLIED. PLEASE COORDINATE THE TRUSS ENGINEER FOR THE LOCATION OF THESE	ROOF TRUSSES* ROOF RAFTERS ROOF RAFTERS (W/O CLG) FLOOR TRUSSES/ BEAMS **	CTION CRITERIA           LL/360         TL/240           LL/180         TL/120           LL/360         TL/240           LL/360         TL/240           LL/360         TL/240	49 Щ 10 - 19.99 10 - 19.99
	FLOOR I-JOIST*** *TL MAX 2" UP TO 40FT SPAN **TL MAX 3/4" *** TL MAX 1/2"	LL/480 TL/240	- 10 - 19.99 - 10 - 19.99 - 10 - 19.99 - 10 - 19.99 - 20 - 49.99
			ороди 199.99 2 ш
TIONS: ASTM A992, GRADE 50, EV=50, KSI TUBE STEEL (HSS): ASTM A500, GRADE B, EV = 46, KSI PIPE STEEL	I · ASTM		UUU > 100

2. STRUCTURAL BOLTS SMALLER THAN 5/8" DIA. TO BE A307 THREADED ROD SHALL CONFORM TO A36 OR A307 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL REINFORCEMENT SHOP DRAWINGS TO BE PROVIDED 3. STRUCTURAL CONNECTIONS: ALL STRUCTURAL BOLTS TO BE A325N U.N.O. ALL A325N BOLTS SHALL BE BROUGHT TO A "SNUG-TIGHT" CONDITION , AS DEFINED IN THE SPECIFICATION. SLIP CRITICAL (SC) BOLTS MUST BE FULLY TENSIONED PER SPECIFICATION STRUCTURAL BOLTS SMALLER THAN 5/8" DIA. TO BE A307 THREADED ROD SHALL CONFORM TO A36 OR A307 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL REINFORCEMENT SHOP DRAWINGS TO BE PROVIDED TO ENGINEER OF RECORD BEFORE FABRICATION FOR REVIEW AND APPROVAL. WELDED CONNECTIONS: ELECTRODES - E70XX UNO (LOW HYDROGEN). FILLET WELDS SHALL BE 3/6" UNO. 4. SUBMIT SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION DETAILS INCLUDING PROFILES, SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, 5. STRUCTURAL STEEL SHALL RECEIVE SHOP COAT OF PRIMER (COLOR AS DIRECTED BY ARCHITECT) EXCEPT FOR AREAS WHICH WILL RECEIVE SPRAY-ON FIRE 6. A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND

- 1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR ANCHORS PER 2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. 3. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPORTIONED (WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25%) TO WITHSTAND 4. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER UNLESS NOTED ON THE PLANS. 5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE
- 6. DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE TPI LATEST EDITION. 7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES . SUBMITTALS SHALL INCLUDE TRUSS FRAMING PLANS AND DETAILS SHOWING MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND PERMANENT BRACING AND/OR BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. SUBMIT 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. 8. THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL
- I. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED WITH 1/2" DIA. EPOXY ANCHORS WITH 7" EMBEDMENT. SIMPSON "SET" EPOXY ADHESIVE BINDER FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS OR SIMPSON 1/2" TITEN HD BOLTS WITH MINIMUM 7" EMBEDMENT. SEE PLAN FOR EMBEDMENT 2. FOR MISSED VERT. DOWELS, DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDMENT EPOXY (SIMPSON HIGH STRENGTH EPOXY-TIE ANCHORING ADHESIVE ) MIXED PER THE MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO THE MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM 3. FOR MORTAR JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONT. TO FOOTING ). 4. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED WITH (1) SIMPSON MTSM16 TWIST STRAP W/ (4) 1/2"x 21/2" TITENS TO MASONRY AND (7)-10d NAILS TO TRUSS FOR UPLIFTS LESS THAN 860 LBS (USE (2) MTSM16 FOR UPLIFTS LESS THAN 1720#). IF CORNER STRAP IS MISSED, CONTRACTOR IS TO INSTALL (2) SIMPSON HGAM10 W/ (4) 1/4" x 1 1/2" SDS SCREWS AND (5) 1/4" x 2 1/4" TITENS ONE EACH SIDE OF TRUSS. 5. NO MORE THAN 10 STRAPS MAY BE SUBSTITUTED OR NO MORE THAN 3 IN A ROW WITHOUT APPROVAL FROM EOR. IF GIRDER TRUSS CONNECTIONS ARE MISSED, 6. IF MISSED, MSTAM36 OR MSTAM40 STRAP IS MISSED FOR 2ND FLOOR JAMB STUD CONNECTION, CONTRACTOR MAY INSTALL SIMPSON HTT5 W/ (26) 16d x 21/2" NAILS AND 5/8" ANCHOR BOLT SET IN SIMPSON HIGH STRENGTH EPOXY W/ MIN 6" EMBEDMENT AND MIN 3" EDGE DISTANCE. CONTACT EOR IF STRAPS ARE MISSED UNDER GIRDER JAMB STUD LOCATIONS.

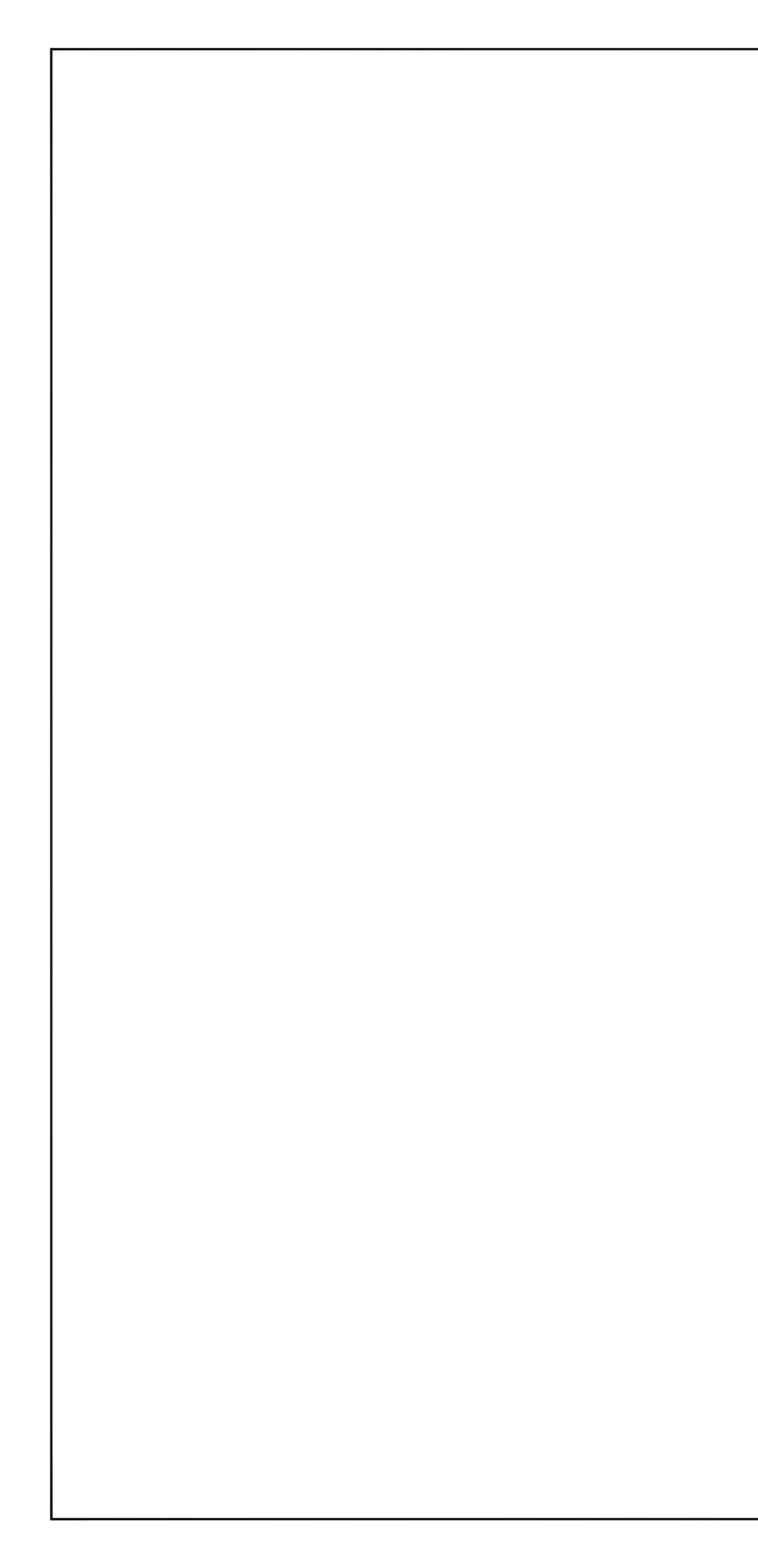
	SHEET INDEX
1	COVER SHEET STRUCTURAL NOTES, CODE COMPLIANCE, SPECS AND WIND PRESSURES
2	SITE PLAN
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4	FLOOR -PLAN - DIMENSIONED
5	EXTERIOR ELEVATIONS
6	ROOF FRAMING PLAN
7	DETAILS
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10	FOOTING DETAILS
11	LINTEL LOADING TABLES AND CONCRETE DETAILS
12	CONNECTOR SCHEDULE AND ENGINEERING DETAILS
13	HEADER SCHEDULE AND ENGINEERING DETAILS

EXPOSU BUILDING BUILDING	RE CATEGOR CATEGORY TYPE URE CLASSIF L PRESSURE
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	7-16 WALL CLADDING FOR M EFFECTIVE
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SHEET





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REGIDENTIAL DEGIGN	TEL. 407-402-3497	e-mail ericmlucia@gmail.com	
9	RAL DESIGN, LLC	2726	
	LP STRUCTURAL DESIG	EUSTIS, FLORIDA 32726 352-989-1935	PE#: 47617
NEW HOME DESIGN	ARIAS RESIDENCE	QUINCE AVE.	EUSTIS FLORIDA 32736
	LE : WN : :	NOTE EMI 2 SHE	

SITE PLAN

SCALE: 3/32'' = 1' - 0''

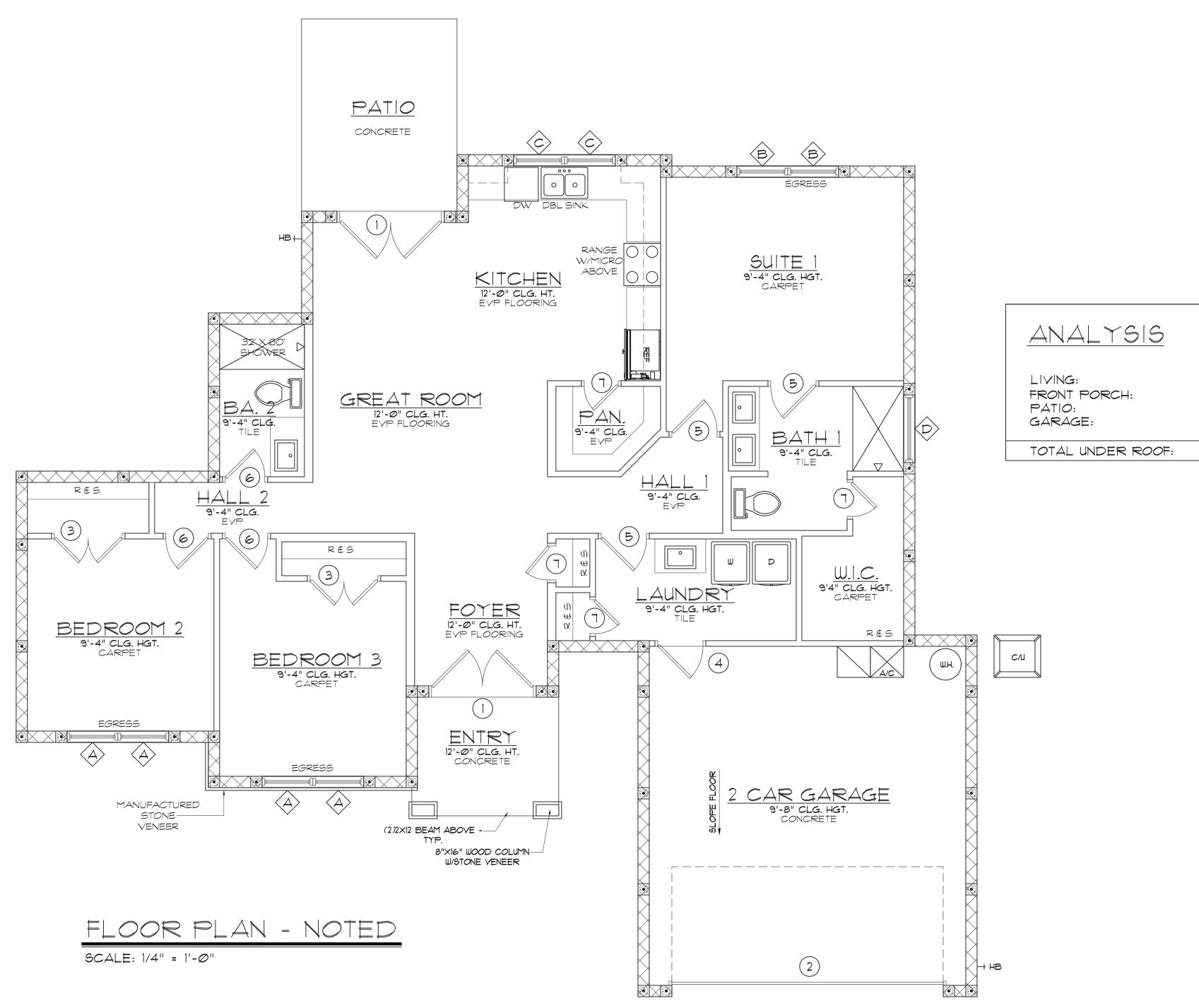
#### DWELLING / GARAGE SEPARATION (TABLE R302.6)

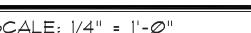
SEPARATION

FROM HABITABLE ROOMS ABOVE GARAGE

STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION GARAGES LOCATED LESS THAN 3 FEET

FROM A DWELLING UNIT ON THE SAME ILOT





#### MATERIAL

NOT LESS THAN ½ INCH GYPSUM BOARD OR EQUIVALENT TO THE GARAGE SIDE

NOT LESS THAN  $\frac{5}{6}$  INCH TYPE X GYPSUM BOARD OR EQUIVALENT NOT LESS THAN lash INCH GYPSUM BOARD OR

NOT LESS THAN  $\frac{1}{2}$  INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA.

#### PLAN NOTES:

. OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL HAVE A 20 MIN. FIRE RATED DOOR OR SOLID WOOD DOOR NOT LESS THAN I AND 3% INCHES IN THICKNESS OR SOLID OR HONEYCOMB DOOR. DOOR SHALL BE EQUIPPED WITH AUTOMATIC CLOSER.

2. PROVIDE 2X BLOCKING AT MIDPOINT ON ALL INTERIOR STUD WALLS.

REVISION	S	BY
RESIDENTIAL DESIGN TEL. 407-402-3497	e-mail ericmlucia@gmail.com	
LP STRUCTURAL DESIGN, LLC 223 MAGNOLIA CIRCLE	EUSTIS, FLORIDA 32726 352-989-1935	PE#: 47617
NEW HOME DESIGN ARIAS RESIDENCE	QUINCE AVE.	EUSTIS FLORIDA 32736
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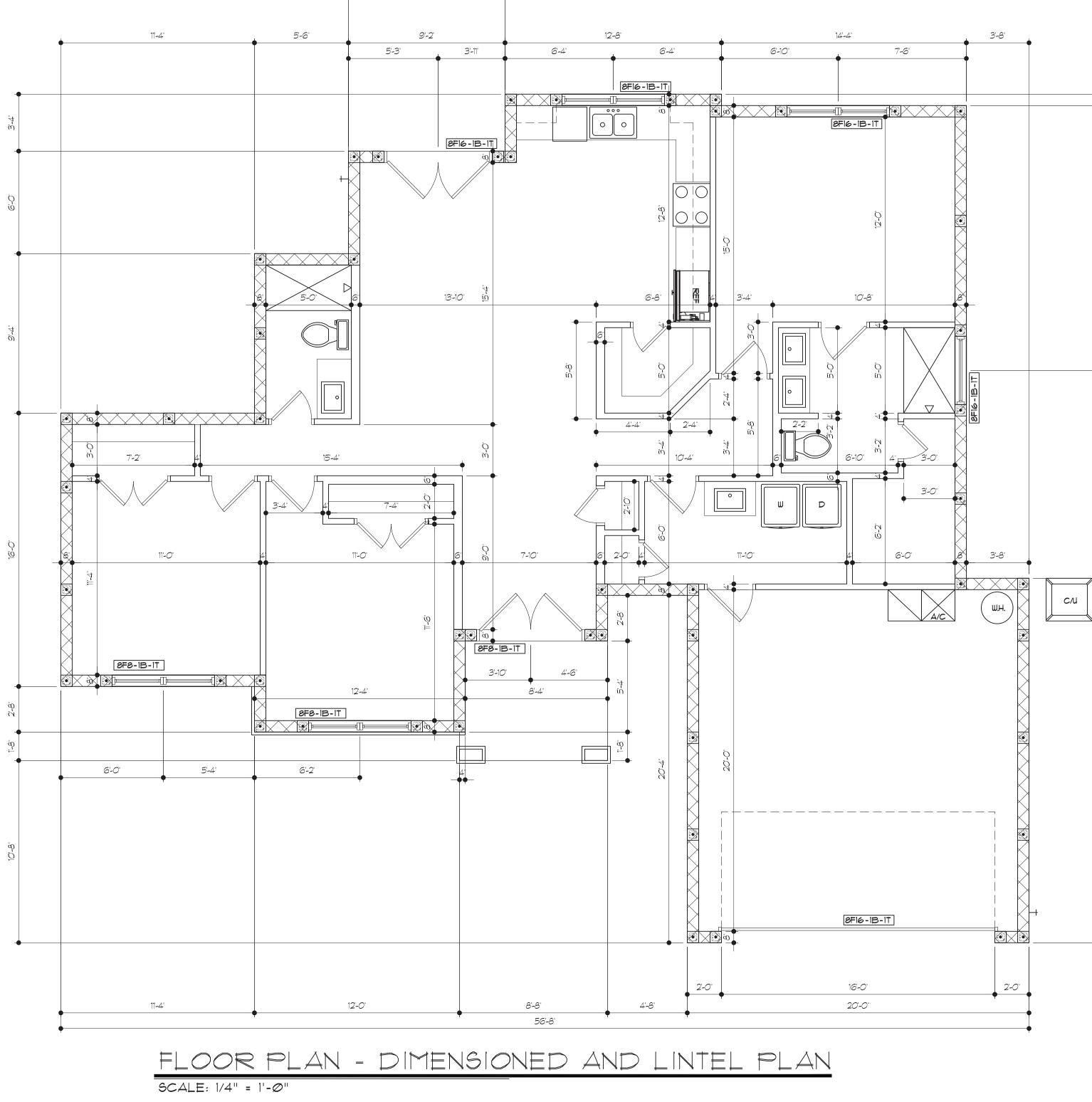
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r					
WINDOW SCHEDULE					
TAG	WIDTH	HGT.	QTY.	NOTES	
$\bigcirc$	3'-Ø"	6'-0"	4	SINGLE HUNG	
B	3'-Ø"	5'-Ø"	2	SINGLE HUNG	
$\diamond$	3'-Ø"	4'-Ø"	2	SINGLE HUNG	
$\bigcirc$	4'-Ø"	1'-Ø"	1	FIXED TRANGOM	

DOOR SCHEDULE         EXTERIOR         TAG       WIDTH         HGT.       QTY.         NOTES         (1)       6'-0"         8'-0"       2         FULL GLASS         (2)       16'-0"         8'-0"       1         OVERHEAD GARAGE DOOR	[				
TAG     WIDTH     HGT.     QTY.     NOTES       1     6'-0"     8'-0"     2     FULL GLASS	DOOR SCHEDULE				
1 6'-0" 8'-0" 2 FULL GLASS	EXT	ERIO	R		
	TAG	WIDTH	HGT.	QTY.	NOTES
(2) 16'-0" 8'-0" 1 OVERHEAD GARAGE DOOR		6'-0"	8'-0"	2	FULL GLASS
	2	16'-Ø"	8'-Ø"	1	OVERHEAD GARAGE DOOR

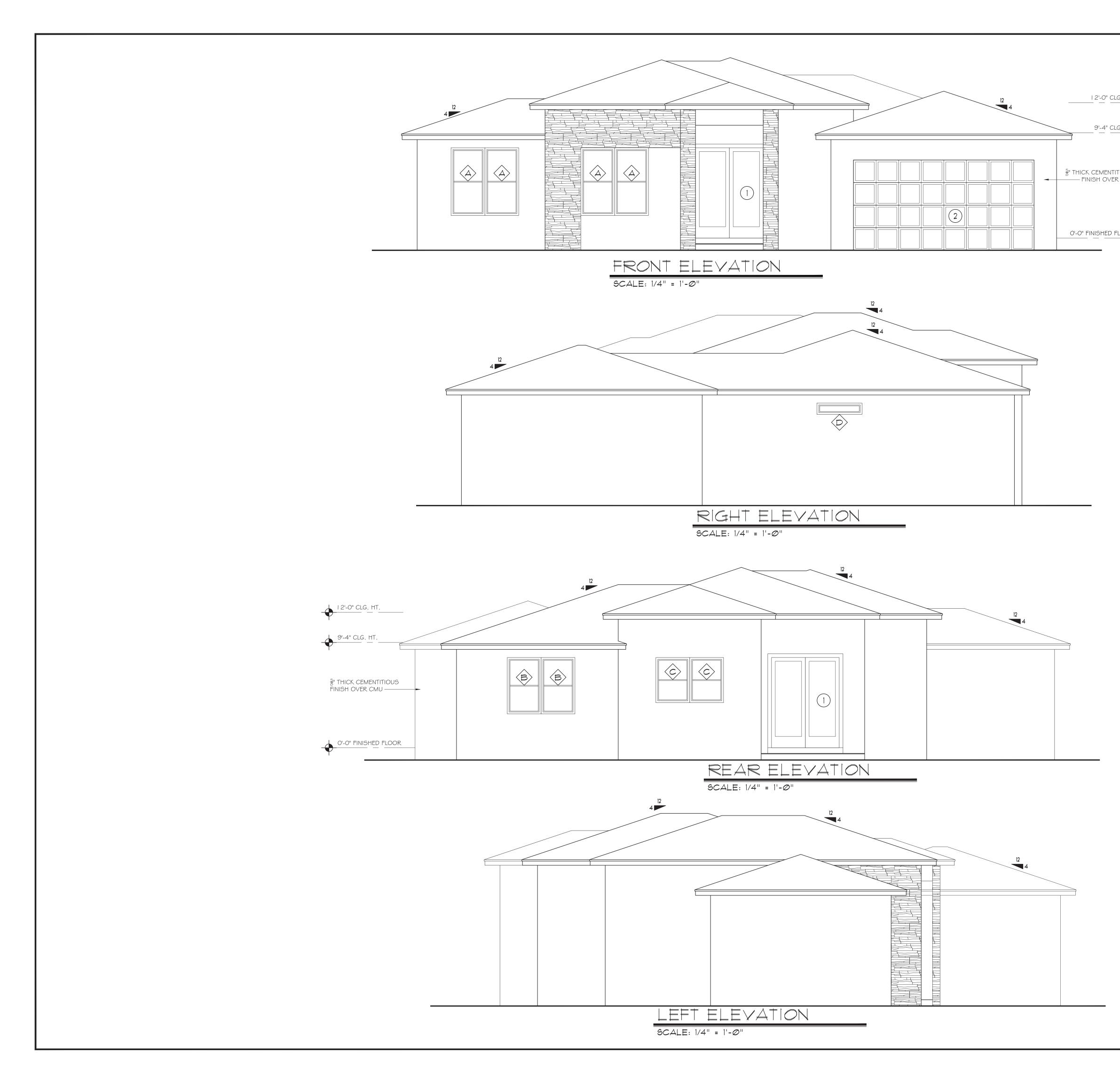
INTERIOR					
TAG	WIDTH	HGT.	QTY.	NOTES	
3	4'-Ø"	8'-0"	2	DOUBLE SWING	
4	2'-8"	8'-0"	1	SWING-20 MIN RATED	
5	2'-8"	8'-0"	2	SWING	
٨	2'-6"	8'-0"	3	SWING	
<b>(7)</b>	2'-Ø"	8'-0"	4	SWING	

	DRAWN : EML	DATE : SCALE : NOTE	NEW HOME DESIGN ARIAS RESIDENCE QUINCE AVE.	LP STRUCTURA 223 MAGNOL EUSTIS, FLOF 352-989-
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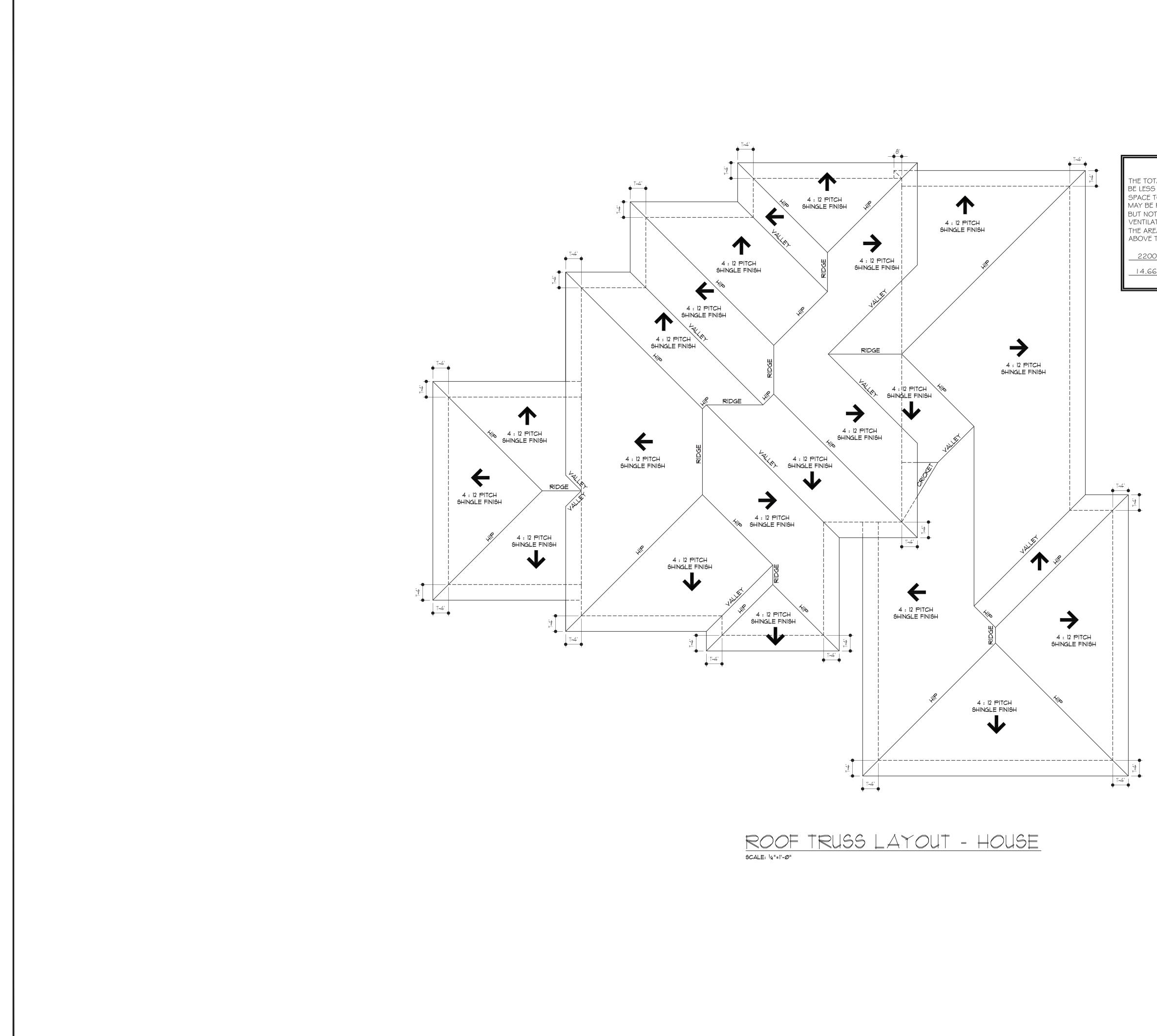




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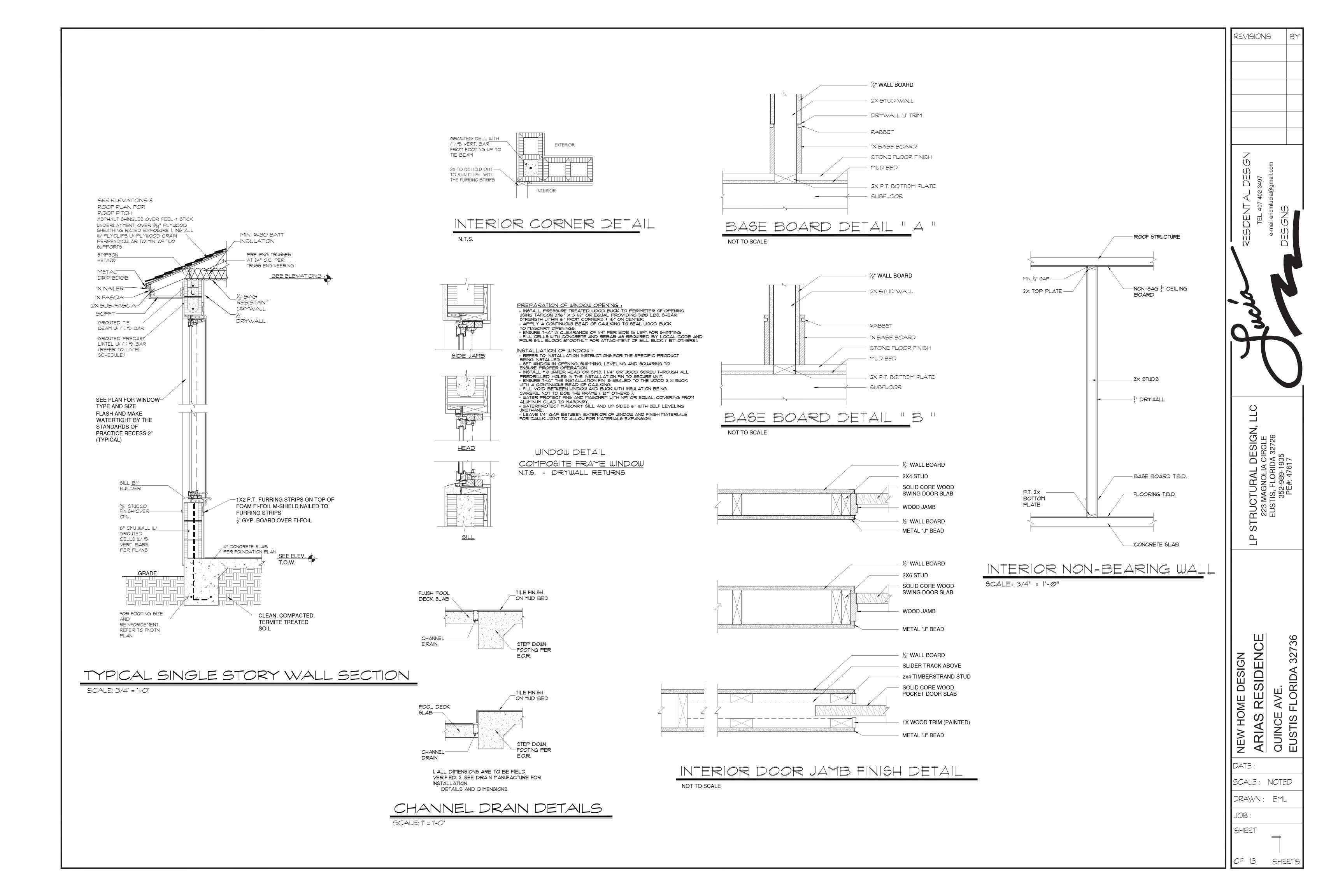


#### ATTIC VENTILATION - GARAGE

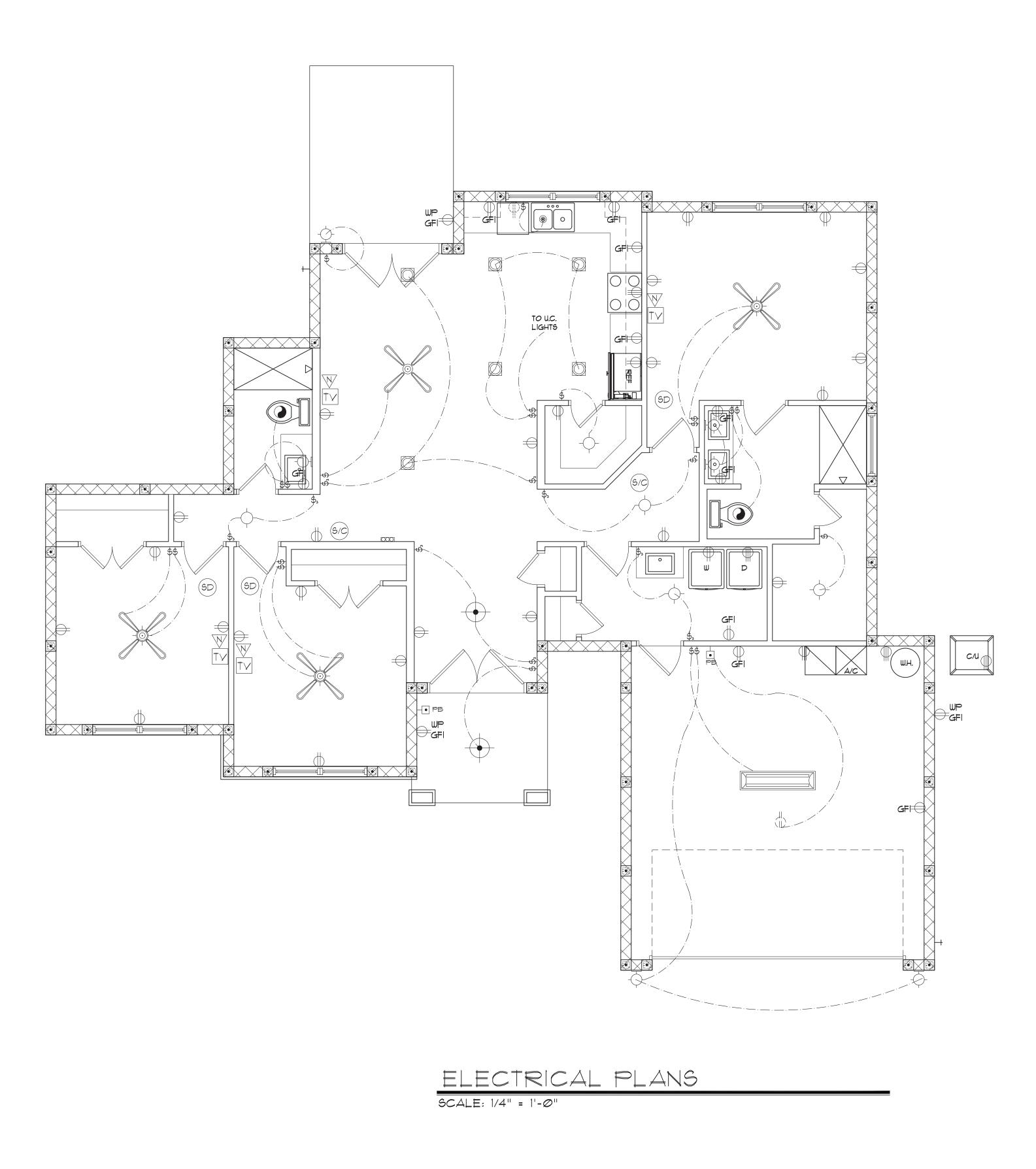
THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

2200 SQUARE FEET OF TOTAL ATTIC / 150 = 14.66 SQUARE FEET OF NET-FREE VENTILATION REQUIRED





\$	SWITCH
~ 	THREE WAY SWITCH
\$4	FOUR WAY SWITCH
\$⊳	DIMMER SWITCH
$\bigcirc$	110V OUTLET
	1107 OUTLET, GFCI
	110V OUTLET, WEATHER PROOF GECI
	1107 OUTLET, CEILING
	1107 OUTLET, BELOW
$\mathbf{\Phi}$	1107 OUTLET, SWITCHED
$\bigcirc$	220v OUTLET
	FLOOR OUTLET
	SURFACE MOUNTED INCANDESCENT LIGHT
- Ĥ	WALL SCONCE
	LARGE PENDANT FIXTURE
	PENDANT FIXTURE
	INGROUND UPLIGHT
	LIGHT/FAN COMBO UNIT
6	BATH FAN
$\bigcirc$	RECESSED LED LIGHT
<del>O</del> -	DIRECTIONAL RECESSED LED LIGHT
$\bigcirc$	RECESSED LED LIGHT - VAPOR PROOF
	LED BACKLIGHTING
$\bigcirc$	HEADER LIGHT FIXTURE
	SQUARE PENDANT LIGHT FIXTURE
	RECESSED RISER LIGHT
+	RECESSED WALL MOUNTED OUTDOOR LIGHT
	$2' \times 4'$ LED LIGHT
SD	SMOKE DETECTOR
S/C	COMBO SMOKE/CARBON MONOXIDE DETECTOR
ŤV	T∨ OUTLET
N	NETWORK JACK
	ELECTRICAL PANEL
	ELECTRICAL METER
● PB	PUSH BUTTON
P	INTERCOM
$\odot$	GARBAGE DISPOSAL
	CHIMES
EC	ELEVATOR CALL BUTTON
AKP	ALARM KEY PAD
B	JUNCTION BOX
	LAMP HOLDER - PULL CHAIN
D04	FLOOD LIGHTS
	CEILING FAN

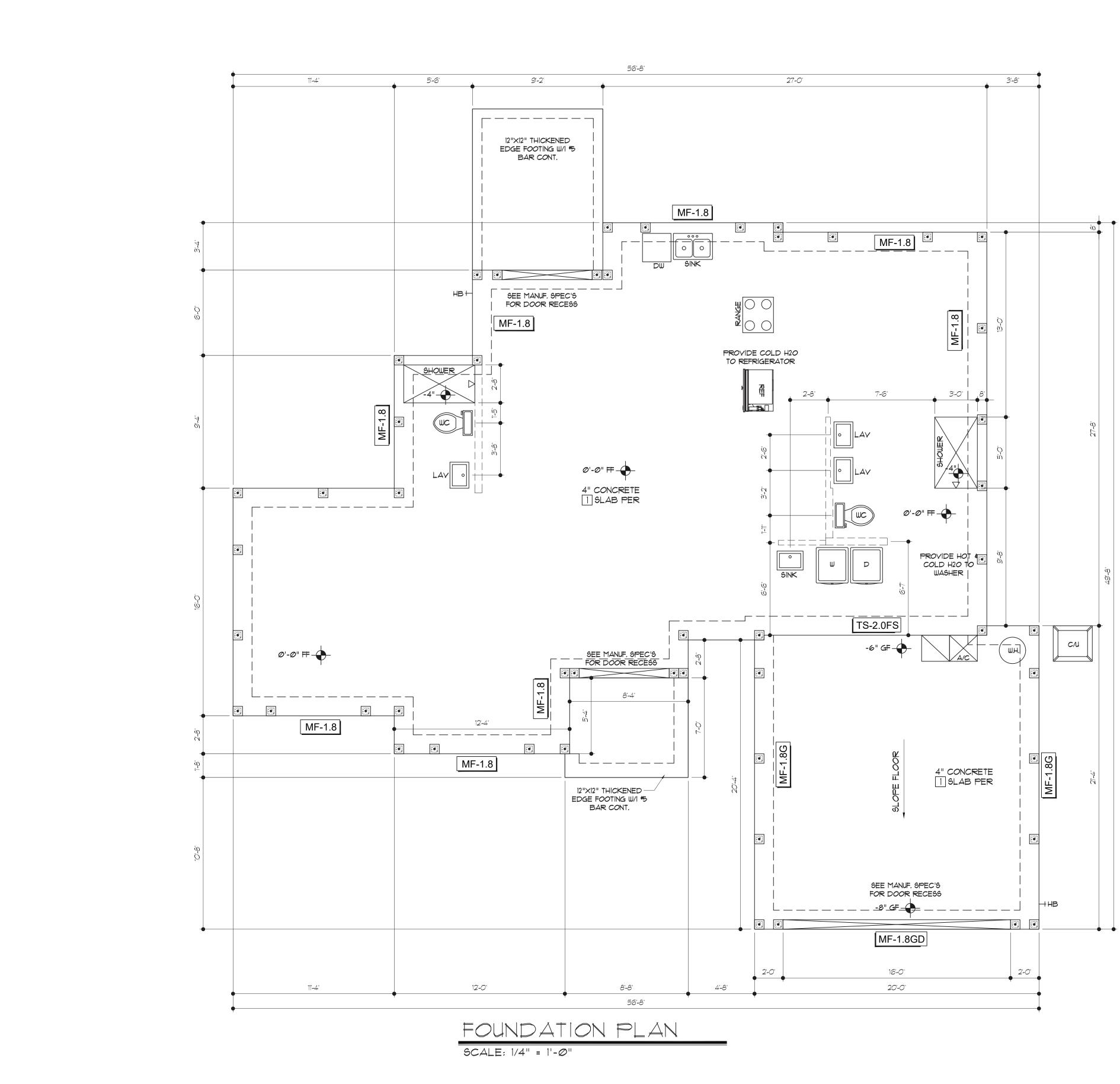


### ELECTRICAL NOTES

- 1. UNLESS OTHERWISE SPECIFICALLY STATED HEREIN, THE ELECTRICAL PLAN(S) ARE ONLY FOR GENERAL DESIGN INTENT AND HAVE BEEN COMPILED TO MEET PERMIT REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. ACTUAL QUANTITY, TYPE, AND PLACEMENT OF OUTLETS, SWITCHES, FIXTURES, AND ALL OTHER RELATED ELECTRICAL EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR AND OWNER. INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES.
- 2. CONTRACTOR SHALL VERIFY WITH POWER COMPANY THE LOCATION OF SERVICE AND SHALL LOCATE METER AND PANEL AS REQUIRED.
- 3. ALL WIRES SHALL BE THW COPPER, UNLESS NOTED OTHERWISE.
- 4. WHERE REQUIRED BY OTHER CODES, SERVICE AND FEEDER CONDUCTORS SHALL BE COPPER OF EQUAL AMPACITY.
- 5. ALL BRANCH CIRCUITS IN RACEWAY OR NON-METALLIC SHEATHED CABLE.
- 6. COORDINATE RACEWAY INSTALLATIONS WITH OTHER TRADES PRIOR TO CONSTRUCTION.
- 1. VERIFY ALL CONDUCTORS AND BREAKERS WITH EQUIPMENT MANUFACTURERS SPECIFICATIONS.
- 8. PROVIDE DISCONNECT SWITCH SIZE AS REQUIRED BY LOAD AND UNITS.
- 9. PROVIDE NON-FUSIBLE GENERAL DUTY SAFETY SWITCHES AT A/C EQUIPMENT, AND AT PUMPS NOT VISIBLE FROM CIRCUIT BREAKER PANEL AND AS PER MANUFACTURER'S RECOMMENDATIONS.
- 10. PROVIDE GROUND FAULT INTERRUPT (GFI) BREAKERS FOR ALL BATHROOM, GARAGE AND EXTERIOR OUTLETS AS SHOWN.
- 11. ELECTRICAL FIXTURES, TRIM AND APPLIANCES SHALL BE 'UL' APPROVED AND SELECTED BY OWNER.
- 12. PROVIDE PRE-WIRED TELEPHONE AND TELEVISION (CABLE TV) OUTLETS.
- 13. WIRE KITCHEN AND FAMILY ROOM SEPARATELY.
- 14. ELECTRICAL SERVICE SIZE SHALL BE DESIGNED BY THE ELECTRICAL CONTRACTOR. THIS PLAN SHALL BE USED AS A GUIDE, POWER REQUIREMENTS SHALL BE DETERMINED BY TOTAL LOAD OF THE HOUSE
- 15. PROVIDE AFCIS (ARC FAULT INTERRUPTERS) IN ALL DWELLING UNIT BEDROOMS PER NEC.
- 16. INSTALL SMOKE DETECTORS IN EACH SLEEPING ROOM. INSTALL COMBO. SMOKE & CO2 DETECTORS AT TOP AND BOTTOM OF STAIRS AND WITHIN 10'-0" OF SLEEPING ROOMS. ALL DETECTORS ARE TO BE INTERCONNECTED AND HAVE BATTERY BACKUPS.

*GFI OUTLETS OUTDOORS, GARAGES AND KITCHEN/BAT	45
200 AMP ELECTRICAL RISER DIAGRAM	
200 Amp MLO	
QU816D4005L200 4/0 SER AL	
200 Amp Meter Base 2" FVC	
Power Co. Feed	
5/8" Driven Ground Rods at least 6' apart \$ tied to ftg.	

ECTRICAL NOTES	REVISIONS BY
INLESS OTHERWISE SPECIFICALLY STATED HEREIN, THE ELECTRICAL PLAN(S) ARE ONLY FOR GENERAL DESIGN INTENT AND HAVE BEEN COMPILED TO MEET PERMIT REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. ACTUAL QUANTITY, TYPE, AND PLACEMENT OF OUTLETS, SWITCHES, FIXTURES, AND ALL OTHER RELATED ELECTRICAL EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR AND OWNER. INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES.	
CONTRACTOR SHALL VERIFY WITH POWER COMPANY THE LOCATION OF SERVICE AND SHALL LOCATE METER AND PANEL AS REQUIRED.	
ALL WIRES SHALL BE THW COPPER, UNLESS NOTED OTHERWISE.	
WHERE REQUIRED BY OTHER CODES, SERVICE AND FEEDER CONDUCTORS SHALL BE COPPER OF EQUAL AMPACITY.	DESIGN 3497 gmail.com
ALL BRANCH CIRCUITS IN RACEWAY OR NON-METALLIC SHEATHED CABLE.	
COORDINATE RACEWAY INSTALLATIONS WITH OTHER TRADES PRIOR TO CONSTRUCTION.	RESIDENTIAL DESIG TEL. 407-402-3497 e-mail ericmlucia@gmail.com DESIGNS
VERIFY ALL CONDUCTORS AND BREAKERS WITH EQUIPMENT MANUFACTURERS SPECIFICATIONS.	DESIC DESIC
PROVIDE DISCONNECT SWITCH SIZE AS REQUIRED BY LOAD AND UNITS.	
PROVIDE NON-FUSIBLE GENERAL DUTY SAFETY SWITCHES AT A/C EQUIPMENT, AND AT PUMPS NOT VISIBLE FROM CIRCUIT BREAKER PANEL AND AS PER MANUFACTURER'S RECOMMENDATIONS.	ZN
PROVIDE GROUND FAULT INTERRUPT (GFI) BREAKERS FOR ALL BATHROOM, GARAGE AND EXTERIOR OUTLETS AS SHOWN.	3
ELECTRICAL FIXTURES, TRIM AND APPLIANCES SHALL BE 'UL' APPROVED AND SELECTED BY OWNER.	97
PROVIDE PRE-WIRED TELEPHONE AND TELEVISION (CABLE TV) OUTLETS.	/ ( )
WRE KITCHEN AND FAMILY ROOM SEPARATELY.	
ELECTRICAL SERVICE SIZE SHALL BE DESIGNED BY THE ELECTRICAL CONTRACTOR. THIS PLAN SHALL BE USED AS A GUIDE, POWER REQUIREMENTS SHALL BE DETERMINED BY TOTAL LOAD OF THE HOUSE.	
PROVIDE AFCIS (ARC FAULT INTERRUPTERS) IN ALL DWELLING UNIT BEDROOMS PER NEC.	DESIGN, L circle DA 32726 935 17
INSTALL SMOKE DETECTORS IN EACH SLEEPING ROOM. INSTALL COMBO. SMOKE & CO2 DETECTORS AT TOP AND BOTTOM OF STAIRS AND WITHIN 10'-0" OF SLEEPING ROOMS. ALL DETECTORS ARE TO BE INTERCONNECTED AND HAVE BATTERY BACKUPS.	LP STRUCTURAL DES 223 MAGNOLIA CIRC 223 MAGNOLIA CIRC EUSTIS, FLORIDA 32 352-989-1935 PE#: 47617
ALL DETECTORS SHALL BE SMOKE/CARBON MONOXIDE COMBO. ALL NON-GFI OUTLETS TO BE ON ARC FAULT INTERRIPTERS & TAMPER PROOF GFI OUTLETS OUTDOORS, GARAGES AND KITCHEN/BATHS	NEW HOME DESIGN NEW HOME DESIGN NEW HOME DESIGN BARAS RESIDENCE SALE : NOTED DRAWN : EML JOB : SHEET SHEET SHEET OF 13 SHEETS



SAWCUT OR CONTROL JOINTS SHALL BE LOCATED NOT TO EXCEED 400 SQ FT AND 15'-0" MAXIMUM SPACING

- 8"x8" SOLID GROUTED CELL (3,000 PSI) WITH (1) #5 VERTICAL REBAR FROM FOOTING UP TO TIE BEAM
- FILL SOLID GROUTED CELLS UNLESS OTHERWISE NOTED, STEEL REINFORCING NOT REQUIRED FS
- 1/2" PRE-MOLDED EXPANSION EJ JOINT FILLER
- V.I.F. = VERIFY IN FIELD BY BUILDER AND INFORM ENGINEER

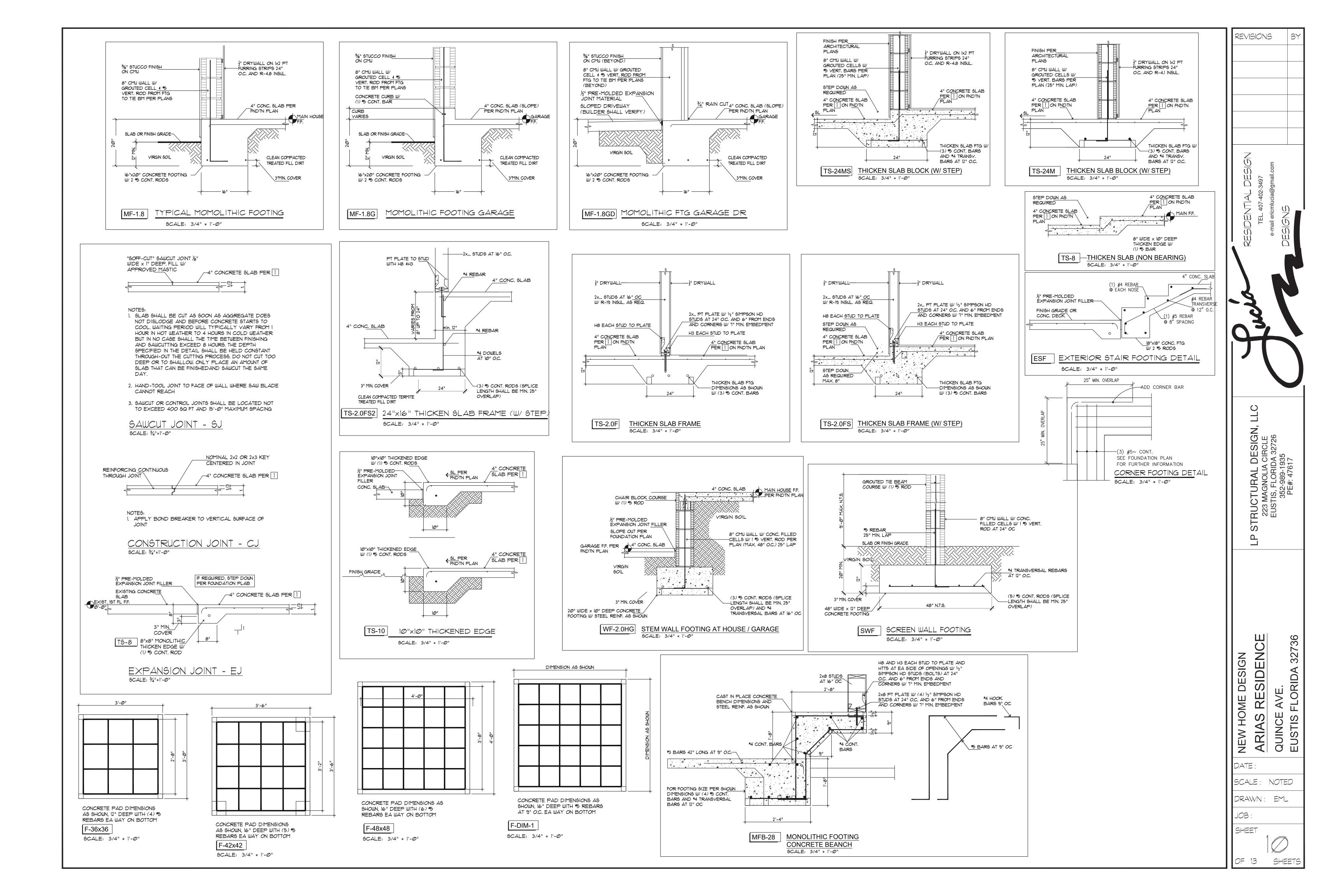
UNLESS OTHERWISE NOTED, DIMENSIONS ARE TO OUTSIDE OF SLAB FOR ADDITIONAL DIMENSIONING REFER TO ARCHITECTURAL SET OF PLANS

#### NOTE:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ANY CONSTRUCTION

1 4" CONCRETE SLAB ON GRADE (3,000 PSI) REINF. W/ 6x6 10/10 WWM OR FIBERMESH ON 6 MIL. VAPOR BARRIER OVER CLEAN, WELL COMPACTED (MIN. 2,000 PSF) AND TERMITE TREATED SOIL WITH POISON CONTROL SYSTEM

REVISIONS BY
RESIDENTIAL DESIGN TEL. 407-402-3497 e-mail ericmlucia@gmail.com DESIGNS
ILLC
LP STRUCTURAL DESIGN, LLC 223 MAGNOLIA CIRCLE EUSTIS, FLORIDA 32726 352-989-1935 PE#: 47617
NEW HOME DESIGN ARIAS RESIDENCE QUINCE AVE. EUSTIS FLORIDA 32736
DATE : SCALE : NOTED DRAWN : EML JOB : SHEET OF 13 SHEETS



CAST-CAETE			G	RAV				
ТҮРЕ	848	8F8-ØB	8F12-ØB	8F16-ØB	8F2Ø-ØE	8F24-ØB	8F28-ØB	8F32-ØE
LENGTH	040	8F8-1B	8F12-1B	8F16-1B	8F2Ø-1B	8F24-1B	8F28-1B	
2'-10"(34") PRECAST	23Ø2	3166	4473	6039	7526	3004	10472	11936
	2202	3166	4473	6039	7526	9004	10472	11936
3'-6" (42") PRECAST	23Ø2	3138	3377	4689	6001	7315	8630	9947
		3166	4473	6039	7526	9004	10472	11936
4'-0"(48")PRECAST	2029	2325	2496	3467	4438	5410	6384	7358
		2646	4473	6039	7526	9004	10472	11936
4'-6" (54") PRECAST	1651	<b>1787</b>	1913	2657	34Ø3	4149	4896	5644
		2170	4027	6039	7526	9004	10472	9668
5'-4" (64") PRECAST	1184	1223	1301	1809	2317	2826	3336	3846
		1665	2889	5057	6096	5400	6424	7450
5'-10"(70") PRECAST	972	1000	1059	1474	1889	2304	2721	3137
		1459	2464	4144	5458	4437	5280	6122
6'-6"(18") PRECAST	937	1255	2101	3263	2746	3358	3971	4585
		1255	2101	3396	5260	7134	8995	6890
1'-6" (90")PRECAST	767	1029	1675	2385	1994	2439	2886	3333
		1029	1675	2610	3839	5596	6613	5047
9'-4" (112") PRECAST	573	632	1049	1469	1210	1482	1754	2027
		768	1212	1818	2544	3469	4030	3127
10'-6'(126") PRECAST	456	482	802	1125	915	1122	1328	1535
		658	1025	1514	2081	2774	3130	2404
11'-4" (136") PRECAST	445	598	935	1365	1854	2355	1793	2075
		598	935	1365	1854	2441	3155	4044
12'-0"(144") PRECAST	414	545	864	1254	1689	2074	1570	1818
		555	864	1254	1693	2211	2832	3590
13'-4"(160")PRECAST	362	427	726	1028	1331	1635	1224	1418
		485	748	1076	1438	1855	2343	2920
14'-0"(168") PRECAST	338	381	648	919	1190	1462	1087	1260
		455	100	1003	1335	1114	2153	2666
4'-8" (176") PRESTRESSE	N.R.	NR	NR	NR	NR	NR	NR	NR
		465	765	1370	2045	2610	3185	3765
5'-4" (184") PRESTRESSE	N.R.	NR	NR	NR	NR	NR	NR	NR
		420	695	1250	1855	2370	2890	3410
1'-4" (208")PRESTRESSE	) N.R.	NR	NR	NR	NR	NR	NR	NR
		310	530	950	1400	1800	2200	2600
9'-4" (232") PRESTRESSE	) N.R.	NR	NR	NR	NR	NR	NR	NR
		240	400	750	1090	1400		2030
21'-4" (256")PRESTRESSE	) N.R.	NR	NR	NR	NR	NR	NR	NR
		183	330	610	940	1340		2110
2'-0"(264")PRESTRESSE	) N.R.	NR	NR	NR	NR	NR	NR	NR
		160 NR	300 NR	57Ø NR	870 NR	1250 NR	1660 NR	1970 NR
24'-@"(288")PRESTRESSEI								

	8"P	RECAS		RESTR		U-LIN	NTELS					ST-CR
CAST-CAETE	8F8-1T	8F12-1T		PLIF 8F2Ø-1T	-	8F28-1T	8F32-1T	LA.	TERAL			
LENGTH		8F12-2T		8F2Ø-2T 5332				8U8	8F8			
2'-10"(34") PRECAST	2727 2165	2784 2289	3981 326Ø	519Ø 4237	64ØT 5219	763Ø 62Ø4	8857 7192	2Ø21	2Ø21			
3'-6" (42") PRECAST	2165 1878	2215 1989	3165 2832	4125 368Ø	5Ø91 4532	6061 5387	7Ø36 6245	1257	1257			LUAD
4'-Ø"(48") PRECAST 4'-6"(54") PRECAST	1878 1660	1925 1762	275Ø 25Ø7	3583 3257	4422 4010	5264 4767	611Ø 5525	938	938			
5'-4" (64")PRECAST	166Ø 1393*	17Ø5 1484	2435 211Ø	3171 2741	3913 3375	4658 4010	5406 4648	727 5Ø5	727 5Ø5		FUR GRAV	/ITY, UPLIFT & LA
5'-10"(10") PRECAST	1393 1272*	1437 1357	2 <i>0</i> 50 1930	267Ø 25Ø5	3293 3Ø84	392Ø 3665	4549 4247	418	418		8" PRECAST W/ 2	" RECESS DOOR U-LINTELS
6'-6"(18") PRECAST	1272 1141*	1315 12 <i>00</i>	1875 1733	2441 225Ø	3010 2769	3583 329Ø	4157 3812	ייד רשר	887	CAST-CRETE	GR	AVITY
1'-6" (90")PRECAST	1141 959*	1182 912	1684 1475	2192	27Ø3 2354	3216 2797	3732 324Ø	591	657		E 8RUG	RF14-088RF18-088RF22-088RF26-088RF30-08
9'-4" (112") PRECAST	330 801* 801	1029 612 755	1466 980 1192	1907 1269 1550	2351 1560 1910	2797 1852 2271	3245 2144 2634	454	630	4'-4" (52") PRECAST		RF14-1B 8RF18-1B 8RF22-1B 8RF26-1B 8RF30-1B 2982 3954 4929 5904 6880
10'-6'(126") PRECAST	716*	498 611	193 1039	1027 1389	1261 1261	1496 2Ø34	1731 2358	396	493		1827 3412	4982         6472         7947         9416         10878           2714         3600         4487         5375         6264
11'-4" (136") PRECAST	666* 666	439 535	696 9Ø5	899	11Ø4 1595	1309	1515 2198	363	556	4'-6" (54") PRECAST		4982         6472         7947         9416         10878           1550         2058         2566         3075         3585
12'-@"(144") PRECAST	607* 631	4 <i>00</i> 486	631 818	816 12Ø9	1001 1514	8611 199	1372 2 <i>086</i>	34Ø	494	5'-8" (68")PRECAST	185 1153 2162	4074 6472 6516 5814 6839
13'-4"(160")PRECAST	500* 573	34Ø 4Ø9	532 682	686 1004	841 1367	997 1637	1153 1897	3Ø2	398	5'-10"(70")PRECAST	735         719         1500           1103         2051	1449         1924         2400         2876         3352           3811         6472         6516         5450         6411
14'-0"(168") PRECAST	458* 548	316 378	493 629	635 922	178 1254	922 1567	1065 1816	286	360	6'-8" (80")PRECAST	822	2933         2576         3223         3872         4522           2933         4100         6730         8177         6707
14'-8" (176") PRESTRESSE	245	295 352	459 582	591 852	724 1156	857 1491	990 1742	N.R.	357	7'-6" (90")PRECAST	761 1377	2252         1958         2451         2944         3439           2329         3609         5492         6624         5132
15'-4"(184") PRESTRESSED	228	278 329	43Ø 542	553 791	677 1072	8Ø1 1381	925 1676	N.R.	327	9'-8" (116") PRECAST	371 420 834	1253 1071 1342 1614 1886
17'-4" (208")PRESTRESSE	188 188 165	236 276 2Ø7	361 449 313	464 649 4Ø1	567 874 490	67Ø 1121 578	174 1389 667	N.R.	255		535 928	1497 2179 2618 3595 2875
19'-4" (232") PRESTRESSE	D 165	239	383 278	401 550 356	450 736 433	94Ø 512	1160 590	N.R.	2Ø4			
21'-4" (256")PRESTRESSE	142	212 18Ø	336 268	477 343	635 418	8Ø1 493	993 993 568	N.R.	172	PECIFIED COMPOSITE LINTEL DEPTH IS THE MINIMUM ACCEPTABLE. ANY EXTRA		
22'-@"(264")PRE6TRE66E 24'-@"(288")PRE6TRE66E	137	2Ø5 165	322 244	457 312	607 380	ודר 441	947 515	N.R.	161	COURSES OF BLOCK ABOVE LINTEL ARE ACCEPTABLE AS LONG AS ALL COURSES		
24 -01(288") PRESTRESSE	124	186 EDUCE VA	290 ALUE BY	408 25% FOR	538 GRADE	680 40 FIELD	833 REBAR	N.R.	135	BOVE P.C. LINTEL ARE FILLED W/ GRO	DUT.	
GINEERII	$\setminus$ (	ר כ			•							
_									7			
- •												
<u>NOTES</u>												
mortar head and bed lintels as required.	j0ints.			8	F16-18	ć	SRFE	-ØE	3/1T	F8-1B/1T 8F8-ØB/1T 8F	RF14-18/17 8F1	6-18/17 8RF22-18/17
f lintel must comply with anufactured with 5-1/2"	n the a long r	archite notche	ectural es at t	and/o he eno	r struc Is to a	ctural accomm	drawin nodate	gs. e			#5 REBAR AT TOP	
reinforcing and groutin et or exceed L/360 ve	ng.										MIN. (1) REQ'D	
nominal height of 8" m added rebar to be lo	ocated	d at th	ne bot	tom of								POWER S
er wire stirrups are weld e concrete may be pro	video	d in cc	mposi	te linte	el in li	eu of	concre	ete ma	ige. asonry			
tings based on rationa	i aesi	ign and	algeie	oer ac	21 218	and A	CI 530	2		$\frac{\overline{\mathfrak{w}}}{\overline{\mathfrak{w}}} \sum_{\Sigma} \left  \right\rangle \left  \right\rangle$	GROUT	POWER LINTEL PSbox8
					<u> </u>	_			#5 F M	RATTOP	*5 REBAR AT BOTTOM OF LINTEL CAVITY	SUPERIMPOSED GRAVITY LOAD - PO MARK NO. NOMINAL TOTAL
					   <del> </del>				1-1/2" (			CLEAR LINTEL SPAN LENGTH
					ACTUAL HEIGHT		À			8" NOMINAL WIDT+	-	L-1         1'-6"         2'-10"           L-2         2'-2"         3'-6"           L-3         2'-8"         4'-0"
10					-5/8" 4 4 NAL +		▲ · · · · · · · · · · · · · · · · · · ·	-				L-4         3'-2"         4'-6"           L-5         4'-0"         5'-4"           L-6         4'-6"         5'-10"
ling					15-5/ NOMIN			G	ROUT	TYPE DE	SIGNATION	L-6         4'-6"         5'-10"           L-7         5'-2"         6'-6"           L-8         6'-2"         7'-6"
					∠ = <u>∅</u>	. 4		1			GROUT / U = UNFILLED	L-9         1'-0"         8'-4"           L-10         8'-0"         9'-4"           L-11         9'-2"         10'-6"
f support.					$\downarrow$			X	F LINTI BOTTON		Y OF #5 REBAR AT OF LINTEL CAVITY	L-12 10'-0" 11'-4" L-13 11'-2" 12'-6"
					, 0	7-5/8". NOMIN		F	PROVIE	$\begin{array}{c} \text{IN LINTEL} \\ \text{ES} \end{array} \qquad $		L-14 12'-0" 13'-4" L-15 12'-8" 14-0" L-16 13'-4" 14'-8"
					0							L-17 14'-Ø" 15'-4" L-18 16'-Ø" 17'-4"
											BAR AT TOP	L-19         18'-0"         19'-4"           L-20         18'-8"         20'-0"           L-21         20'-8"         22'-0"
												L-22 22'-8" 24'-Ø" L-23 24'-Ø" 25'-4"
										3 <mark>13</mark> "	TOTOTOTOTOTOT	L-24         26'-Ø"         27'-4"           L-25         28'-Ø"         29'-4"           L-26         3Ø'-Ø"         31'-4"
									1		TO THE REAL PROPERTY AND THE	NOTE: ALL LINTELS GREATER THAN 2 (2) *5 BARS TOP OR (2) *5 BA
									г _			(13)
									ו-'ו <u>\$</u> " ר			
												(9)
									г _			(7)
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												and the second
										DETAIL "KK"		(1)

#### PRE-CAST L PER CAST-CRETE

#### MATERIALS

- 1. f'c precast lintels = 3500 psi.
- 2. f'c prestressed lintels = 6000 psi.
- 3. f'c grout = 3000 psi w/ maximum 3/8" aggregate. 4. Concrete masonry units (CMU) per ASTM C90 w/
- minimum net area compressive strength = 1900 psi.
- 5. Rebar provided in precast lintel per ASTM A615 GR60. Field rebar per ASTM A615 GR40 or GR60. 6. Prestressing strand per ASTM A416 grade
  270 low relaxation.
  7. 7/32 wire per ASTM A510.
  8. Mortar per ASTM C270 type M or S.

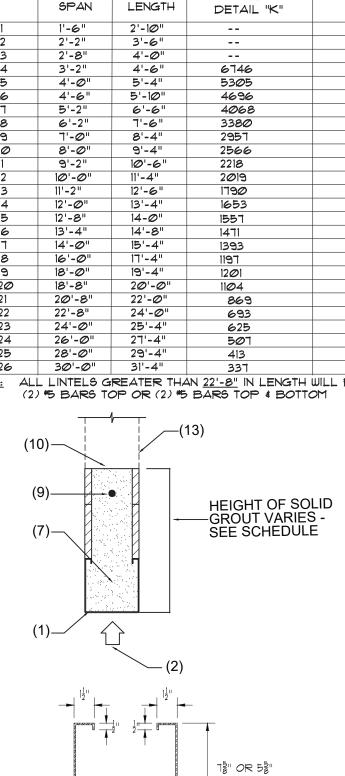
SAFE LOAD TABLE NOTES

#### <u>GENERAL</u>

- 1. Provide full mo
- 2. Shore filled lint
- 3. Installation of
- 4. Lintels are manu vertical cell rei
- 5. All lintels meet
- longer with a no
- 6. Bottom field ac 7. 7/32" diameter u 8. Cast-in-place c
- 9. Safe load ratin

- All values based on minimum 4" bearing. Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 6-1/2". Safe loads for all recessed lintels based on 8" nominal bearing.
- 2. N.R. = Not Rated.
- Safe loads are total superimposed allowable load on the section specified.
   Safe loads based on grade 40 or grade 60 field rebar.
- 5. Additional lateral load capacity can be obtained by the designer by providing
- addional reinforced masonry above the precast lintel.

- 6. One #7 rebar may be substituted for two #5 rebars in 8" lintels only.
  7. The designer may evaluate concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at d-away from the face of sup 8. For composite lintel heights not shown, use safe load from next lower height.
  9. All safe loads in units of pounds per linear foot.



TYPICAL POWER BOX LINTEL SECTION

1000000

1100000

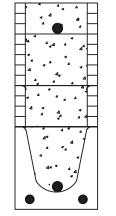
\* \* \* \* \* \* \* \*

1000000 0000

# RETE TABLES \_IFT & LATERAL LOADS

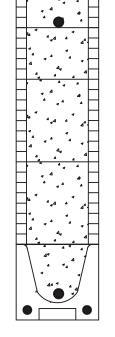
8RF22-1B/1T

	8" PI	RECAS	rw/	2" RE	CESS	DOOR	U-LIN	TELS	
CAST-CRETE			U	PLIF	T			LA	TERAL
TYPE	8RF6-IT	8RFIØ-IT	8RF14-1T	8RF18-17	8RF22-11	8RF26-17	8RF3Ø-1T	2DUC	aDEA
	8RF6-21	8RF10-27	8RF14-27	8RF18-27	8RF22-2T	8RF26-2T	8RF3Ø-2T	ORUB	ORFO
4'-4" (52") PRECAST	1244	1573	2413	326Ø	4112	4967	5825	922	<b>9</b> 22
	1244	1519	2339	317Ø	4008	485Ø	5696	552	ELS         LATERAL         8RU6       8RF6         932       932         853       853         501       501         469       469         830       1100         710       941         516       614
4'-6" (54") PRECAST	1192	1507	2311	3121	3937	4756	5577	953	0E2
	1192	1455	224Ø	3Ø36	3837	4643	5453	655	655
5'-8" (68")PRECAST	924*	1172	1795	2423	3Ø55	3689	4325	FØI	Fal
5-8" (68") FRECASI	924	1132	1741	2357	2978	36Ø3	423Ø	901	901
5'-10"(70")PRECAST	896*	1138	1742	2352	2965	3581	4198	44.0	44.0
5-10 (10) PRECASI	896	1099	1690	2288	2891	3497	4106	405	465
6'-8" (80")PRECAST	877	882	1513	2Ø42	2573	3107	3642	02 <b>0</b>	1100
6-8 (80 )-RECAST	877	896         1099         1690         2288         2891         3497         4106         469         4           178         882         1513         2042         2573         3107         3642         830         11           178         956         1468         1987         2509         3035         3563         830         11           688         697         1325         1810         2280         2753         3227         710         100         100							
	688	697	1325	1810	228Ø	2753	3227		0.41
1'-6" (90")PRECAST	688	849	13Ø2	1762	2225	2690	3157	10	941
9'-8" (116") PRECAST	533*	433	808	1123	1413	17Ø4	1995	E 14	<i>c</i> 1 <i>d</i>
5-8 (IIE ) - RECAST	533	527	1009	1369	1728	2Ø88	245Ø	510	614
	*RE	DUCE VA	LUE BY	15% FOR	GRADE -	40 FIELD	REBAR		

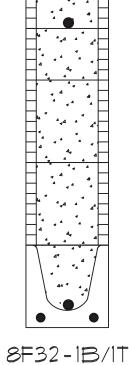


8F2Ø-1B/17

44 4 4  $\checkmark$ • • 8F24-1B/1T



8RF30-1B/17



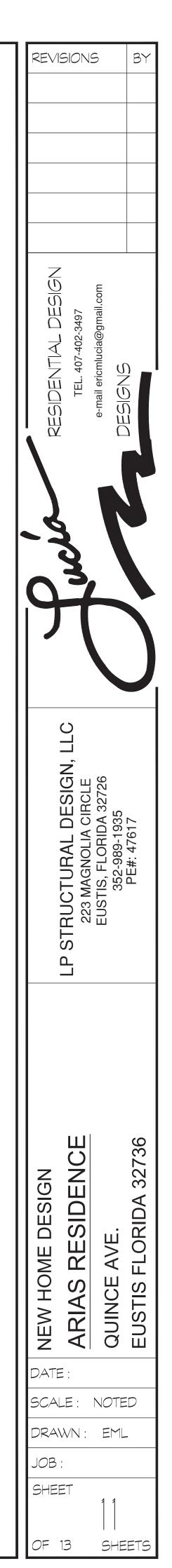
## WER STEEL BOX AND WIRE LINTELS

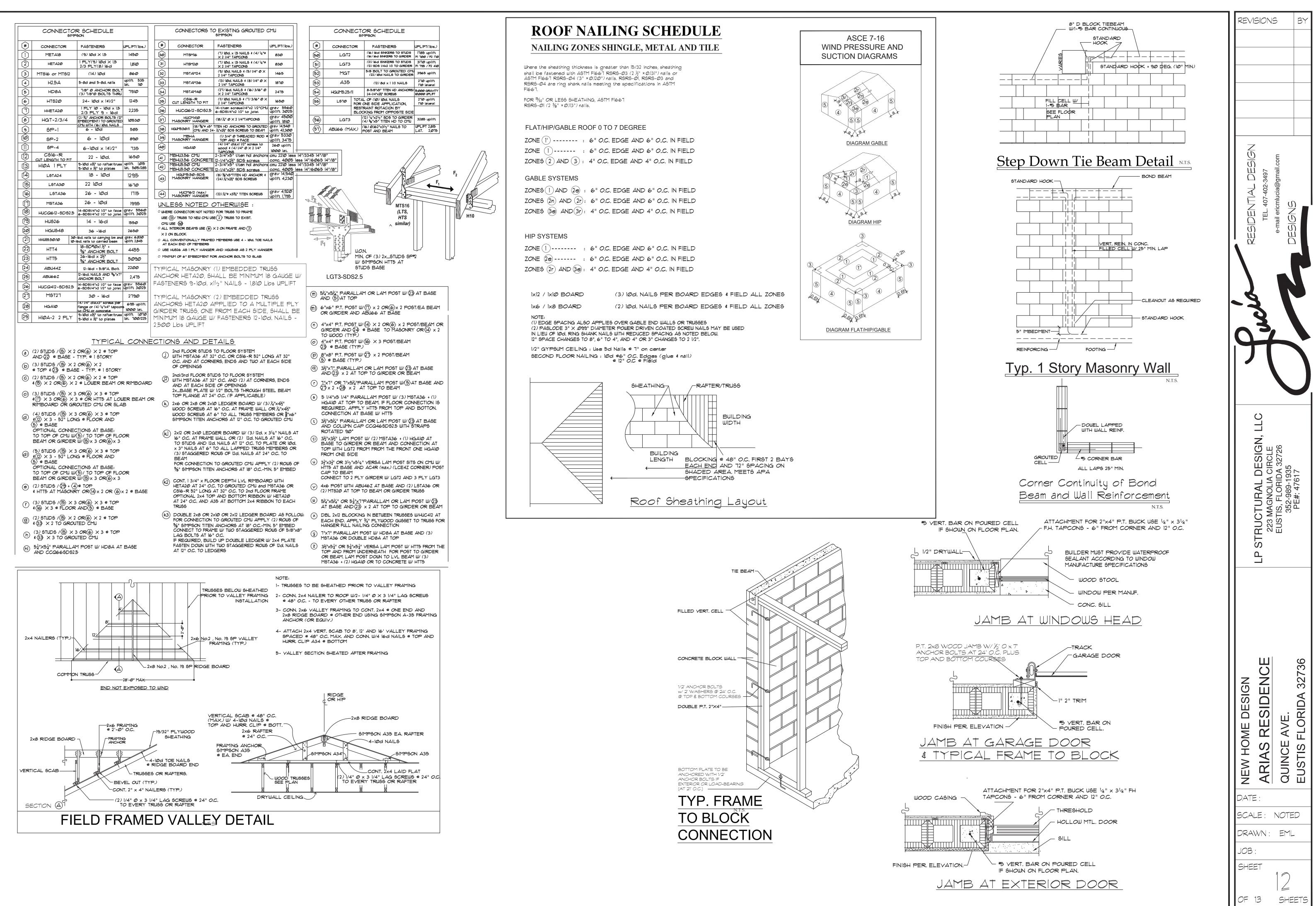
LINTEL PSbox8 (7-5/8") 24" COMPOSITE

		POUNDS PER LINEA	
IINAL	TOTAL	FILLED W/	FILLED W/
EAR	LINTEL	#5 TOP	#5 T4B
AN	LENGTH	DETAIL "K"	DETAIL "KK"
,"	2'-1Ø"		
2"	3'-6"		
3"	4'-Ø"		
2"	4'-6"	6746	6746
0"	5'-4"	5305	5305
6"	5'-10"	4696	4696
2"	6'-6"	4068	4068
2"	7'-6"	338Ø	338Ø
D"	8'-4"	2957	2957
0"	9'-4"	2566	2566
2"	10'-6"	2218	2218
0"	11'-4"	2019	2019
I	12'-6"	1790	1790
ייכ	13'-4"	1653	1653
5"	14-0"	1557	1557
F	14'-8"	1471	1471
୭"	15'-4"	1393	1393
0"	17'-4"	Tell	Tell
୭"	19'-4"	12Ø1	1336
3"	20'-0"	11@4	1282
8"	22' <b>-</b> Ø"	869	1037
3"	24'-Ø"	693	832
Ø"	25'-4"	625	ଚାଚ
0"	27'-4"	507	757
0"	29'-4"	413	629
·Ø"	31'-4"	337	525

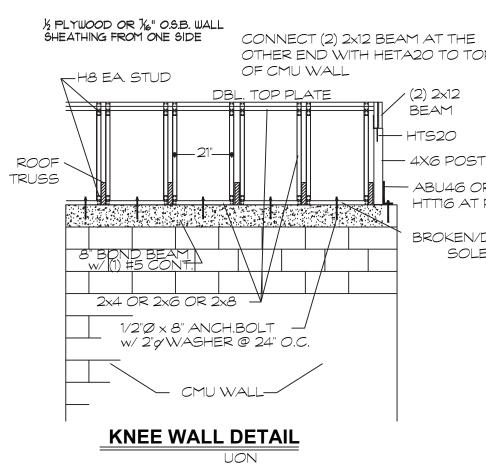
POWER LINTEL PSbox8 (7-5/8") 24" COMPOSITE

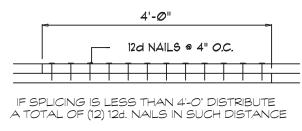
MARK NO.	NOMINAL	TOTAL	FILLED W/	FILLED W/
	CLEAR	LINTEL	#5 TOP	#5 T <b></b> 4B
	SPAN	LENGTH	DETAIL "K"	DETAIL "KK"
L-1	1'-6"	2'-1Ø"		
L-2	2'-2"	3'-6"	9645	9645
L-3	2'-8"	4'-Ø"	7856	7856
L-4	3'-2"	4'-6"	6632	6632
L-5	4'-Ø"	5'-4"	5272	5272
L-6	4'-6"	5'-10"	4698	4698
L-7	5'-2"	6'-6"	4105	4105
L-8	6'-2"	7'-6"	3456	3456
L-9	T'-Ø"	8'-4"	3057	3Ø57
L-10	8'-0"	9'-4"	2459	2459
L-11	9'-2"	10'-6"	1897	1897
L-12	10'-0"	11'-4"	1611	1611
L-13	11'-2"	12'-6"	1312	1312
L-14	12'-Ø"	13'-4"	1150	1150
L-15	12'-8"	14-0"	1Ø43	1043
L-16	13'-4"	14'-8"	951	951
L-17	14'-Ø"	15'-4"	872	872
L-18	16'-0"	17'-4"	692	692
L-19	18'-0"	19'-4"	618	618
L-2Ø	18'-8"	20'-0"	582	582
L-21	20'-8"	22'-Ø"	494	494
L-22	22'-8"	24'-Ø"	428	428
L-23	24'-Ø"	25'-4"	511	577
L-24	26'-Ø"	27'-4"	507	507
L-25	28' <b>-</b> Ø"	29'-4"	452	452
L-26	30'-0"	31'-4"	407	407



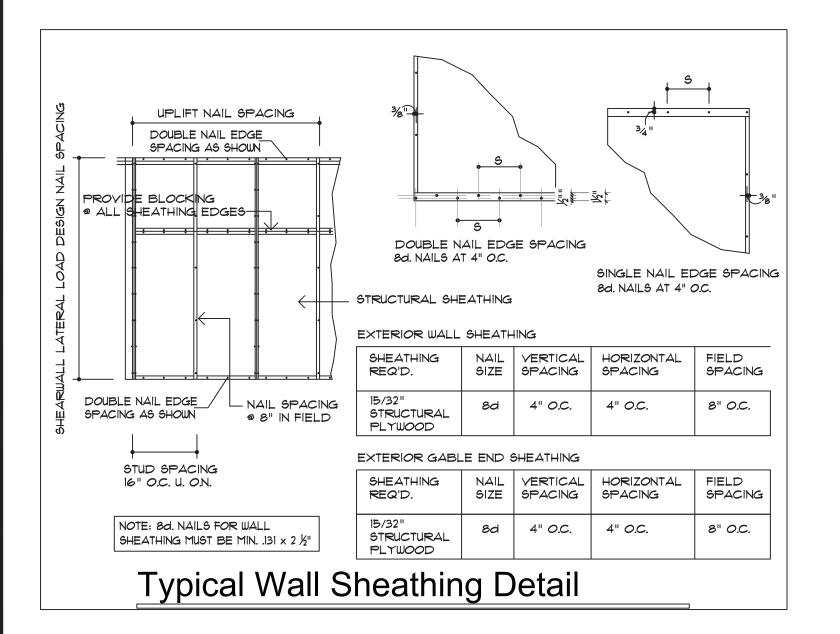


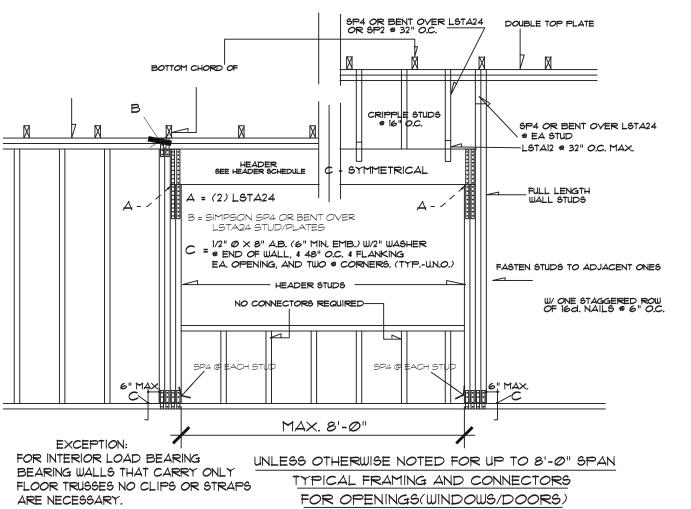
LIMITING HEIGHTS OF 2	2" STUDS
FOR HIGH FRAMING CONDITIONS, THE APPLICA OF AN INTERMEDIATE FRAMING SUCH AS FLOO JOISTS, ETC., ALLOW TO REDUCE THE ALLOWAS	R JOISTS, CEILING
SIZE STUD MATERIAL AT O.C. SPACING	MAXIMUM HEIGHT
2"x4" SPRUCE, FIR 24" O.C.	8'-0"
2"x4" SPRUCE, FIR 16" O.C.	9'-0"
2"x4" SPRUCE, FIR 12" O.C.	10'-0"
2"x4" SOUTHERN PINE, FIR 24" O.C.	9'-0"
2"x4" SOUTHERN PINE, FIR 16" O.C.	10'-9"
2"x4" SOUTHERN PINE, FIR 12" O.C.	12'-4"
2"x6" SPRUCE, FIR 24" O.C.	11'-4"
2"x6" SPRUCE, FIR 16" O.C.	13'-9"
2"x6" SPRUCE, FIR 12" O.C.	16'-0"
2"x6" SOUTHERN PINE, FIR 24" O.C.	13'-9"
2"x6" SOUTHERN PINE, FIR 16" O.C.	17'-0"
2"X6" SOUTHERN PINE, FIR 12" O.C.	19'-4"
2"x8" SPRUCE, FIR 24" O.C.	14'-9"
2"x8" SPRUCE, FIR 16" O.C.	18'-0"
2"x8" SPRUCE, FIR 12" O.C.	21'-0"
2"x8" SOUTHERN PINE, FIR 24" O.C.	18'-0"
2"x8" SOUTHERN PINE, FIR 16" O.C.	22'-3"
2"x8" SOUTHERN PINE, FIR 12" O.C.	25'-8"



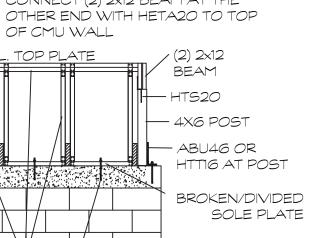




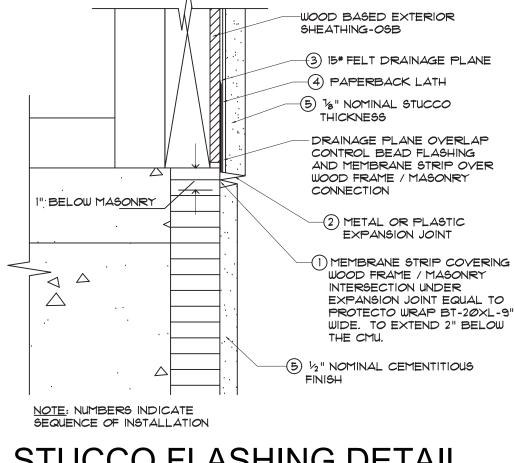




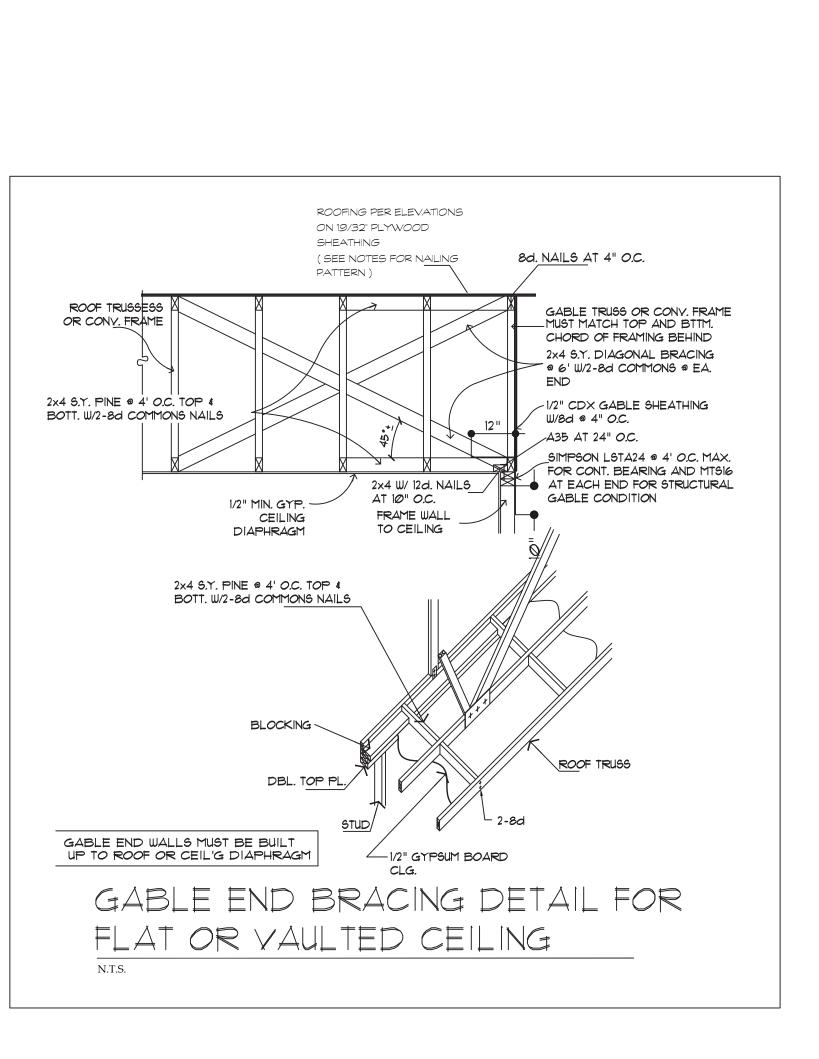
FOR EXTERIOR OR INTERIOR LOAD BEARING WALL



2-2x STUDS UNDER LINTEL OPENINGS LE THAN 5'-0" HEADER SC	TOP PL	 6d SPIKES @ 12" OP PLATE •CONT. AILED ' PLYWD.	<ol> <li>USE HEADER SIZES OTHERWISE NOTED</li> <li>PRIMARY FRAMING WERE SIZED USING 1800 'FB' EXTREMI 90 'FV' HORIZONTA 16E 'E' MODULES O</li> <li>JOIST, RAFTERS, LI USING: 1200 'FB' EXTREME 90 'FV' HORIZINTA 16E 'E' MODULES O</li> </ol>	ON FRAMING PL (BEAMSGIRDER E FIBER IN BEND AL SHEAR OF ELASTICITY NTELS, ETC. WERE E FIBER IN BEND - SHEAR	.AN RS,ETC ING(SI E SIZE	NGLE D						
0PENING WIDTH 0'-0" TO 3'-0" 3'-1" TO 5'-0"	OR SHEARWALL 2-2x8'S + PLYWD. FLITCH 2-2x10'S +	NON-BEARING WALLS 2-2x4'S 2-2x4'S	MINIMUM WALL AN UPLIFT CONNECTION F					-		+)		
5'-1" TO 7'-0"	PLYWD. FLITCH 2-2x12'S +	2-2×6'5	AT POINTS 'A'(TOP ANI HEADER STUDS, UPLI		3	6	9		-AN(FEE	12		
	PLYWD. FLITCH		IS REQUIRED AT EACH	END OF HEADER	NUMBER OF HEADER STUDS * SUPPORTING END OF HEADER							
7'-1" TO 9'-0"	2-2x12 W/ 1/2" PLYWD. FLITCH	2-2x8'5	AND AT BOTTOM OF HEADER STUDS IN ADDITION TO CONNECTORS AT WALL STUDS		1	2	2	2	2	2		
		CONT. TO	UNSUPPORTED WALL HEIGHT	STUD Spacing					ENGTH S HEADER			
•		ате —	IØ' OR LESS	12" 16" 24"	221	222	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3324	3 3 3 1 1 1	332 5		
	1	6d SPIKES @ 12" 'OP PLATE	GREATER THAN 10'	12" 16" 24"	221	222	32	4 3 2	n 4 m	9 4 3		
2-2x STUDS UNDER LINTEL OPENINGS LE THAN 5'-0"		AILED		R STUD SHALL NOT BE PORTED BY A SUITABL					,]			
HEADER SC	CHEDULE FOF	8 6" WALL										
OPENING WIDTH	BEARING WALL OR SHEARWALL	NON-BEARING WALLS										
0'-0" TO 3'-0"	3-2x10'S + PLYWD. FLITCH	3-2x4'S										
3'-1" TO 5'-0"	3-2x12'S + PLYWD. FLITCH	3-2×6'5										
5'-1" TO 7'-0"	3-14" LVL	3-2x8'5										
7'-1" TO 9'-0"	3-14" LVL	3-2×10'5										



### STUCCO FLASHING DETAIL @ CMU / FRAME INTERFACE





ARE NECESSARY. ONLY ANCHORAGE TO SLAB IS REQUIRED ACCORDING TO "C"