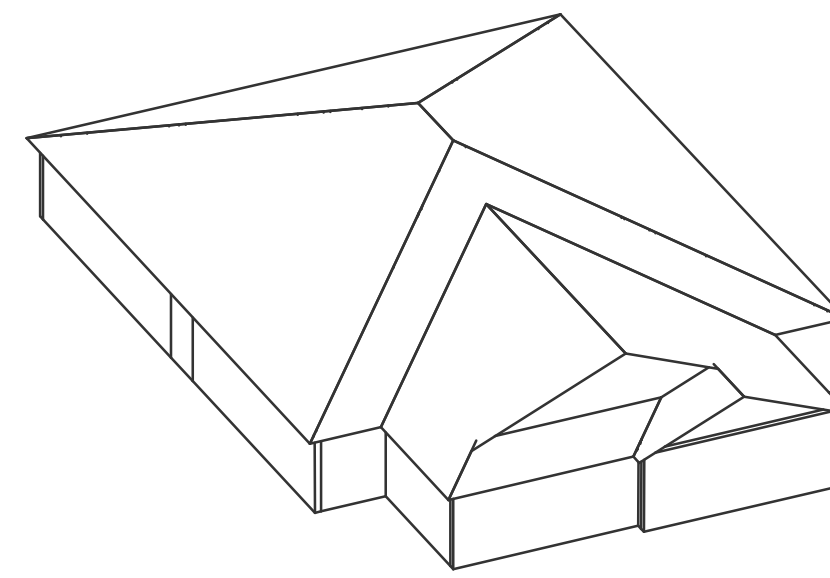
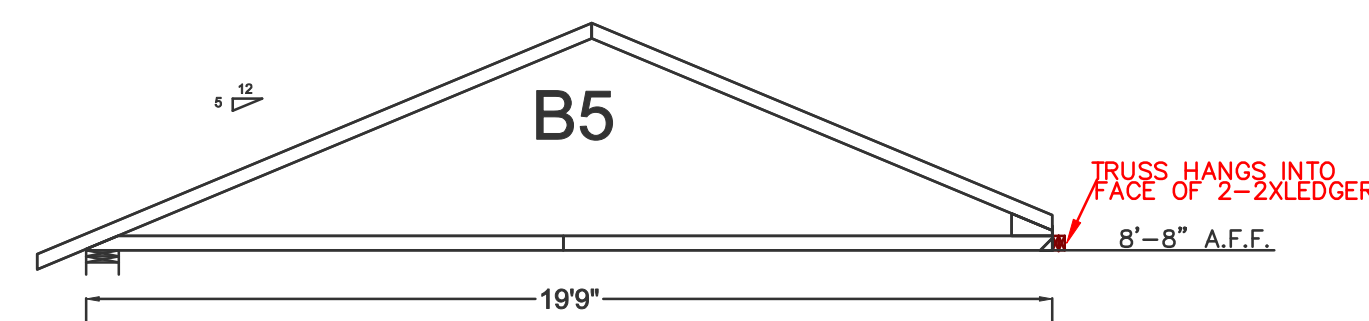
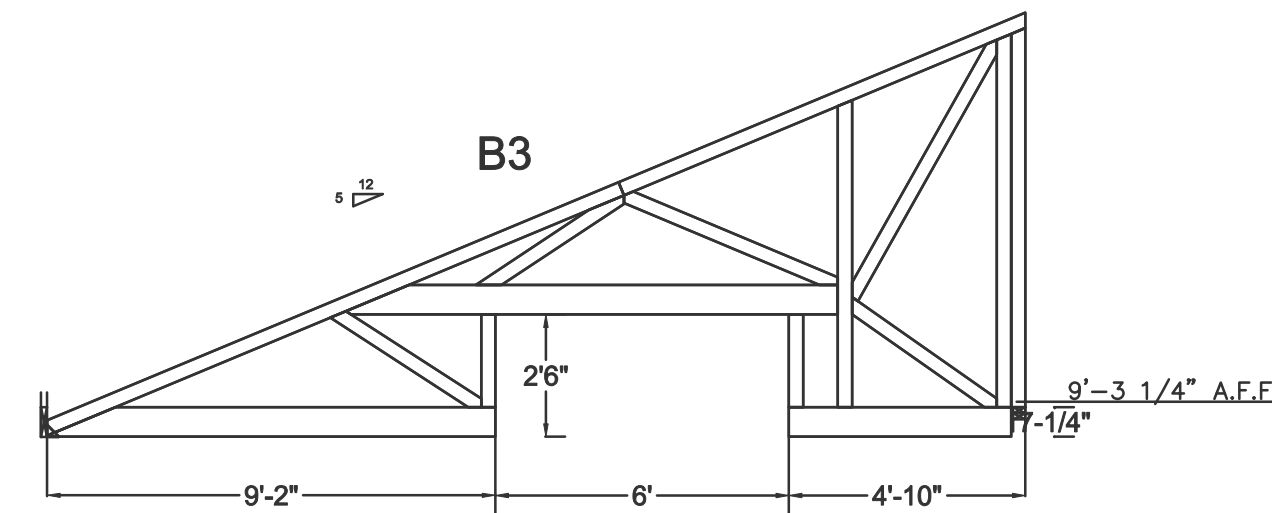




The diagram illustrates the relationship between three types of roof truss cuts. A horizontal line represents the roof surface. A diagonal line represents the truss member. A vertical line represents the wall. The intersection of the diagonal line and the wall is labeled 'J SQUARE CUT'. The intersection of the diagonal line and the roof surface is labeled 'CJ DOUBLE BEVEL'. The intersection of the vertical line and the roof surface is labeled 'EJ SQUARE CUT'. A note states: 'SEE ENGINEERING FOR FASTENING REQUIREMENTS'.



****UNLESS NOTED****

REACTION VALUES ARE UNDER 5000#

UPLIFT VALUES ARE UNDER 1000#

ALL TRUSSES 24" o.c. UNLESS NOTED OTHERWISE

*****CAUTION*****

DO NOT ATTEMPT TO ERECT TRUSSES WITH-
OUT REFERRING TO THE ENGINEERING DWGS.

IT IS NECESSARY TO REFER TO THE ENGINEERING
DRAWINGS FOR NUMBER OF MEMBERS, BEARING LOCATION,
ORIENTATION AND WEB BRACING

REFER TO WTCA/TPI BSCI-B1 SUMMARY
HEET FOR HANDLING METHODS & TEMPORARY
BRACING, WHICH IS ALWAYS REQUIRED

BEARING HEIGHTS BASED ON PLANS PROVIDED TO SCOSTA
CORP. "+/-" BEARING DIFFERENCES SHOWN ARE CRITICAL.
IF ANY HEIGHTS DEVIATE - INFORM SCOSTA CORP.

BEARING WALL & BEAM HEIGHTS

	0'-0"	ELEV
	FIREWALL	ELEV
		ELEV
		ELEV
		ELEV
		ELEV
		ELEV

DR HORTON HANGER SCHEDULE

(C) USP HUS 26 (M) USP THDH 28-3
(F) USP HUS 28 (N) USP THD 48
(H) USP THDH 28 (P) USP JUS 24
(I) USP THDH 28-2 (B) USP MSH 422
(W) USP HJC 26 (X)

HANGER VALUES HAVE BEEN BASED ON 16D
COMMON NAILS EXCEPT THE FOLLOWING
LUS24 - 10D COMMON THJA26 - 10D x 1-1/2"

*****ATTENTION*****

APPROVAL OF THIS TRUSS LAYOUT IS NECESSARY BEFORE FABRICATION CAN BEGIN. VERIFY DIMENSIONS, PITCHES, OVERHANGS, ELEVATIONS, CEILING & BEARING CONDITIONS. SCOSTA CORPORATION IS RESPONSIBLE FOR ACCURACY IN ACCORDANCE WITH PLANS AND/OR INFORMATION PROVIDED BY CUSTOMER, WITH ANY DEVIATIONS NOTED HEREIN. CUSTOMER IS RESPONSIBLE TO VERIFY ACCURACY OF INFORMATION AND PLANS PROVIDED BY SCOSTA CORPORATION TO VERIFY CONFORMANCE TO FIELD CONDITIONS, AND/OR OWNER CHANGES. TRUSSES WILL BE BUILT IN ACCORDANCE WITH THE APPROVED LAYOUT.

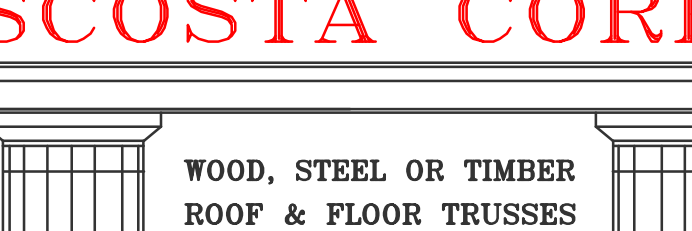
APPROVED BY: _____

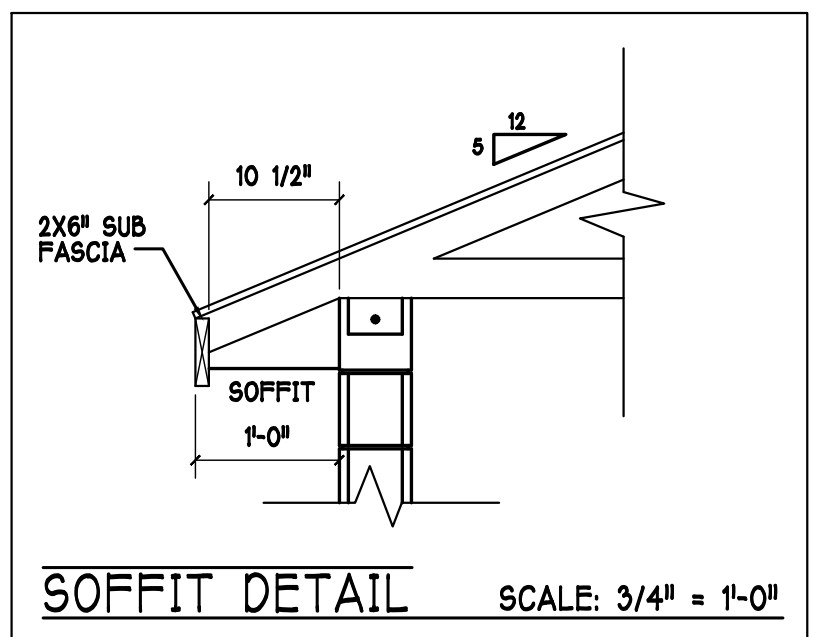
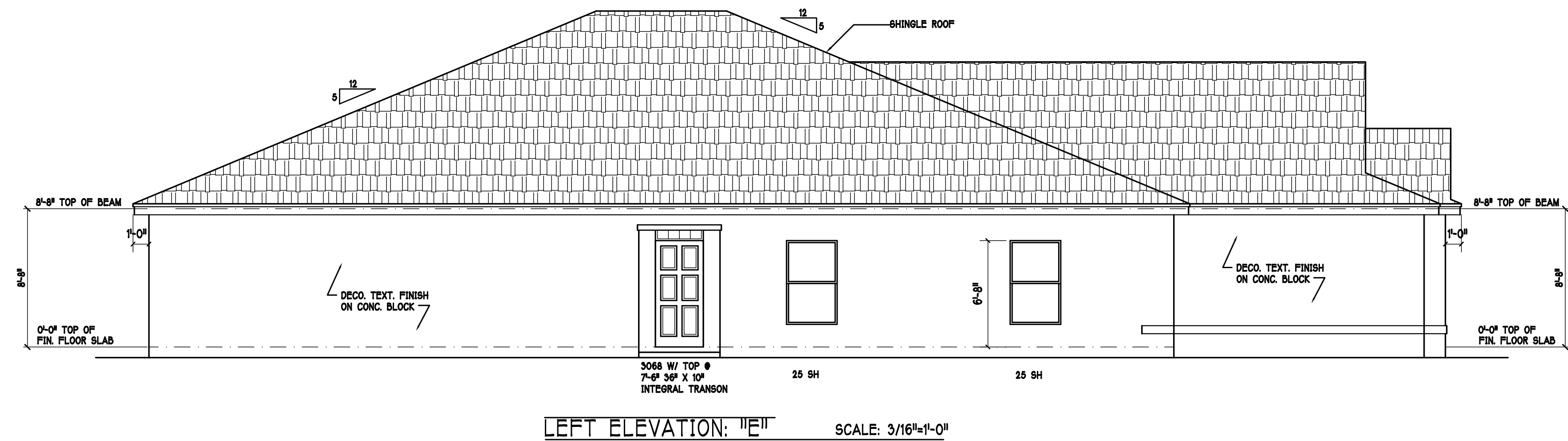
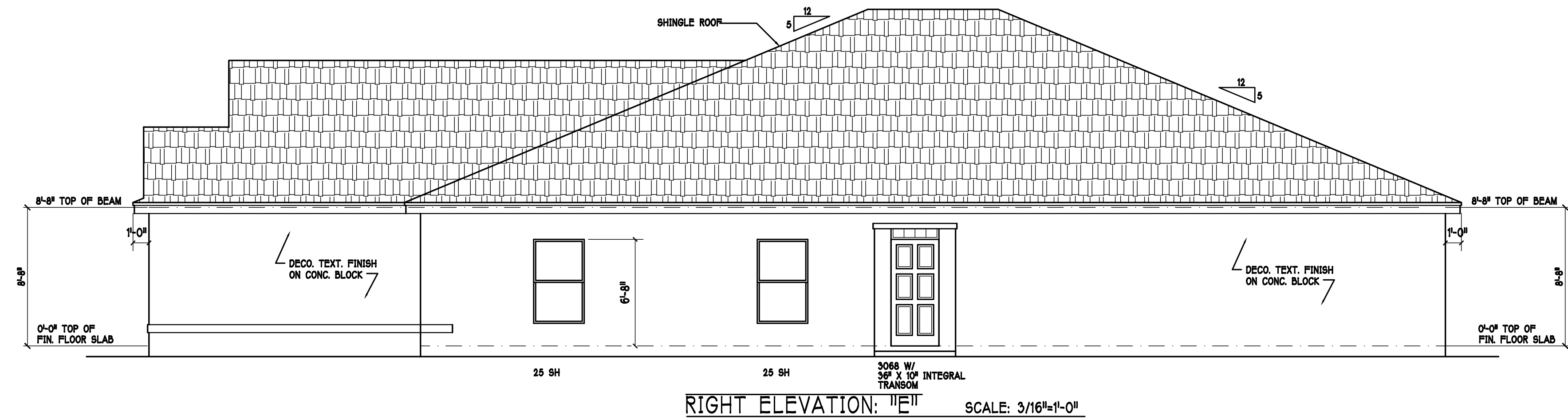
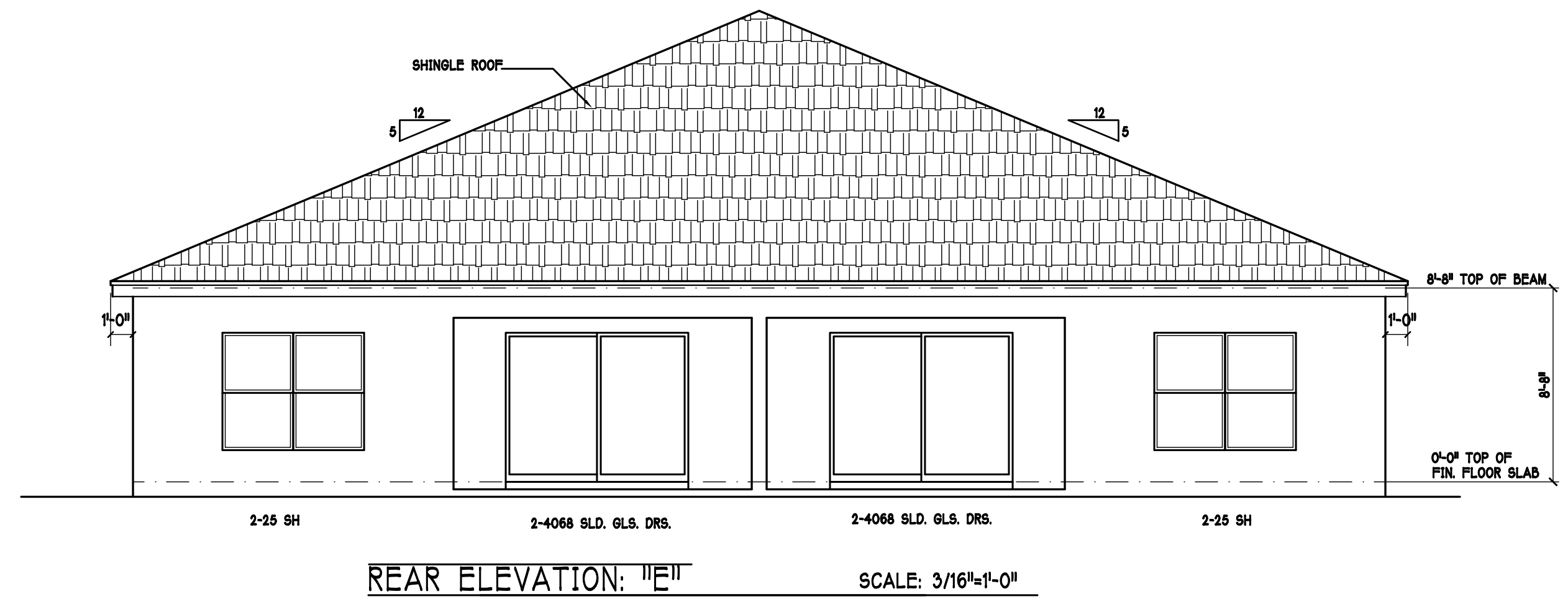
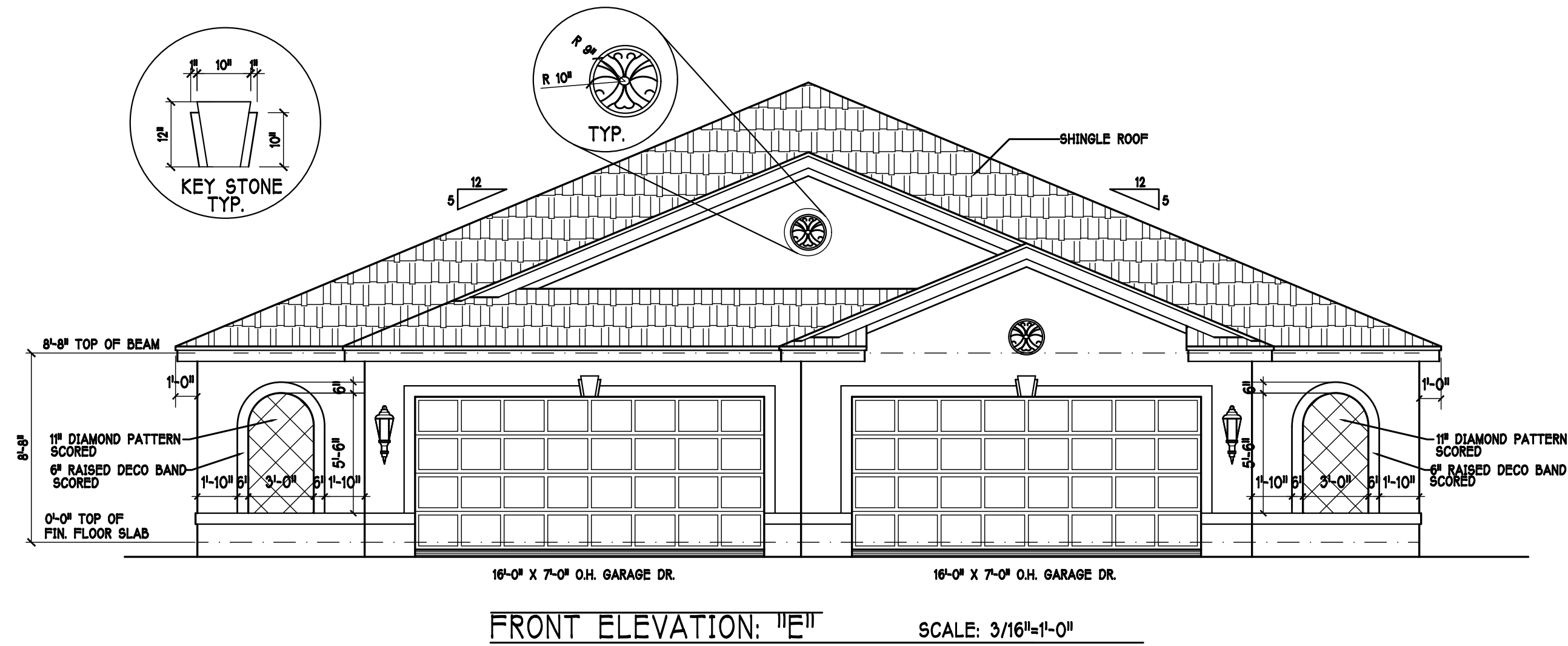
DATE: _____ REQUESTED DELIVERY DATE: _____

JOBSITE CONTACT NAME: _____

PHONE #: _____

E-MAIL: _____

 SCOSTA CORP. WOOD, STEEL OR TIMBER ROOF & FLOOR TRUSSES 3670 COMMERCE CENTER DRIVE SEBRING, FL 33870 (863) 385-8242			
SCALE: 1/4"=1'-0"	DATE: 10/15/15	REVISED BY: KD 06/26/17	DRAWN BY: KRISTY
JOB ADDRESS: 1519 SIGNATURE VILLAS			1 of 1
CUSTOMER: D.R. HORTON			JOB # 44150



DESIGN IN ACCORDANCE W/ THE 2017 RESIDENTIAL
FLORIDA BUILDING CODE - 6th EDITION

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STRUCTURAL
D.R. HORTON & COMPANY, INC.
1624 SE 47th ST, SUITE 402
FORT LAUDERDALE, FL 33304
TEL: (352) 454-4500
FAX: (352) 454-4501
CIVIL 88829

LOT: 218-219
SUBDIV: THE GROVE TV'S
ADRS: 10873-10877 MARBLE BROOK BLVD
G.C.D. #: 10083
D.R.H. #: 579380059-060

MODEL: 1519 - SIGNATURE
RESIDENCE FOR: SPEC

DATE: 01-10-17
DRAWN BY: JSL
CHECKED BY: J.W.C.
REVISED: 03-29-18
PLAN: ELEVATION
SCALE: 3/16" = 1'-0"
SHEET#

A1

D.R. HORTON & COMPANY, INC.
America's Builder

Gulf Coast Drafting
& Design
Phone (239) 540-1822
Fax (239) 540-7759

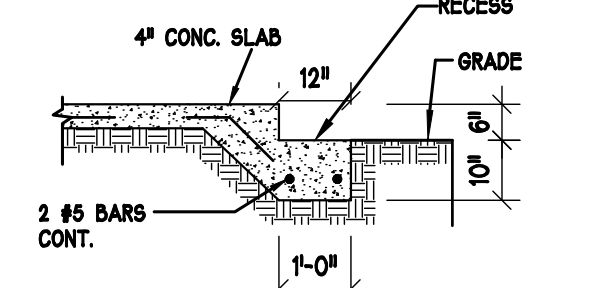
PLAN NOTES:

- 1) TOP OF GROUND FLOOR SLAB DATUM ELEVATION 0'-0".
- 2) FOOTING MAY BE STEPPED DOWN TO ACCOMMODATE SLOPE IN FINISHED GRADE.
- 3) "F" DENOTES CONTINUOUS WALL FOOTING TYPE PER SCHEDULE THIS SHEET.
- 4) "P" DENOTES PERIMETER FOOTING TYPE PER SCHEDULE THIS SHEET.
- 5) PROVIDE #5 VERTICAL REINFORCING AT DOT LOCATIONS SHOWN ON PLAN FROM FOOTING TO BOND BEAM.
- 6) ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY WALLS. SOME SLAB EDGES MAY EXTEND BEYOND FACE OF WALL.
- 7) FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/DOOR SUPPLIER.
- 8) PROVIDE PRESSURE TREATED BUCKS AT WINDOWS / DOORS PER DETAIL 7/S-1.

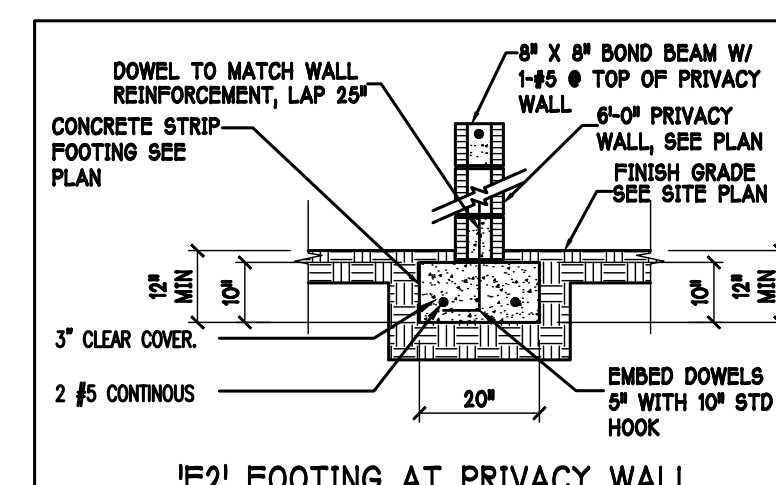
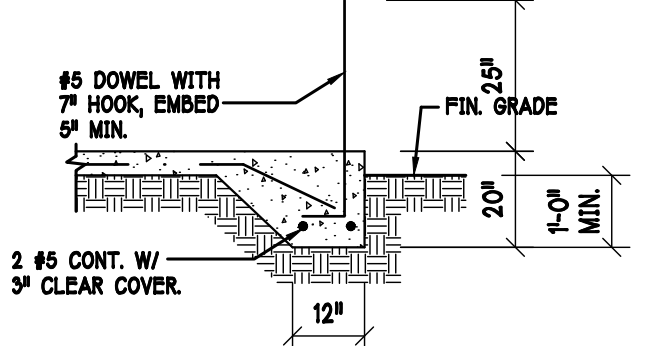
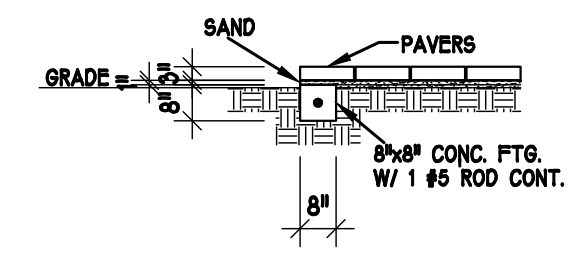
PAD FOOTING SCHEDULE							
USE	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINF.		REMARKS
					LONG WAY	SHORT WAY	
✓	(A)	2'-6"	2'-6"	1'-0"	3-#5	3-#5	-
	(B)	3'-0"	3'-0"	1'-0"	4-#5	4-#5	-
	(C)	3'-6"	3'-6"	1'-0"	4-#5	4-#5	-
	(D)	4'-0"	4'-0"	1'-2"	5-#5	5-#5	-
	(E)	5'-0"	5'-0"	1'-2"	6-#5	6-#5	-

WALL FOOTING SCHEDULE						
USED	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINFORCING	SHAPE
X	F1	CONT.	1'-4"	0'-8"	2-#5	
X	F2	CONT.	0'-8"	0'-10"	2-#5	
X	F3	CONT.	1'-0"	1'-8"	2-#5	
	F4	CONT.	1'-4"	0'-8"	2-#5	
	F5	CONT.	1'-4"	1'-0"	2-#5	
X	F6	CONT.	0'-8"	0'-8"	1-#5	
	F6A	CONT.	8"	8"	1-#5	
	F7	CONT.	0'-8"	0'-8"	1-#5	

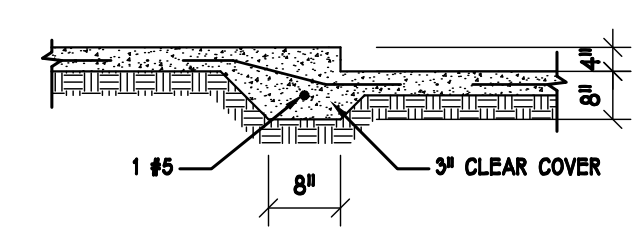
NOTE: REINFORCING IN FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND INTERSECTIONS. ADD CORNER BAR 25"x25" AT EACH LONGITUDINAL BAR.



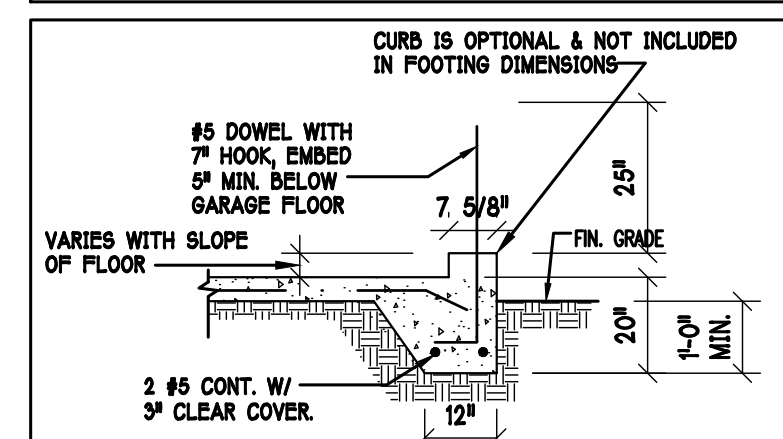
GARAGE DOOR RECESS

'F2' FOOTING AT PRIVACY WALL'F3' FOOTING

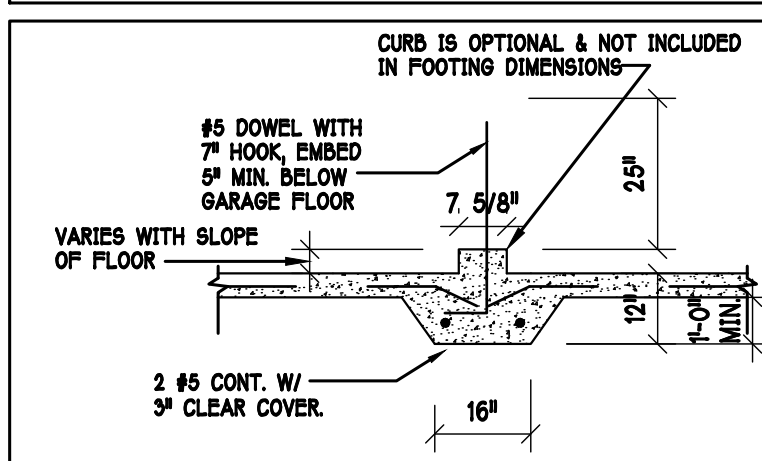
'P' PAVERS DETAIL ENTRY/LANAI



'F6A' STEP DOWN

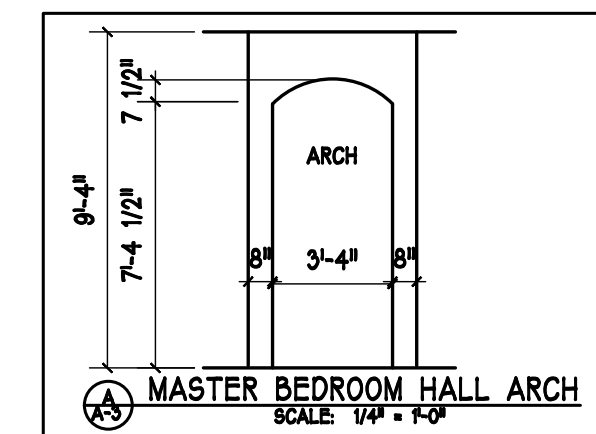
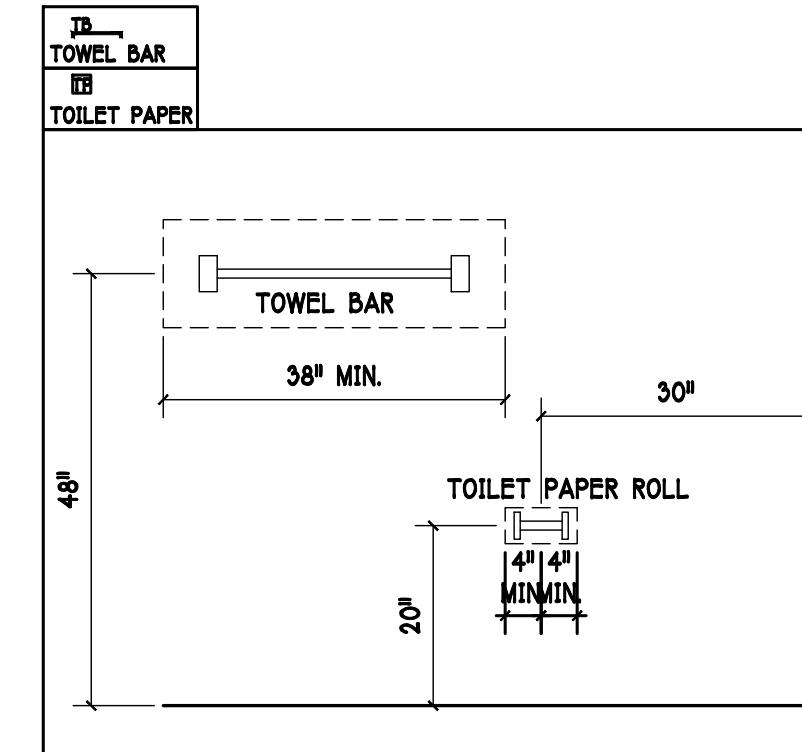
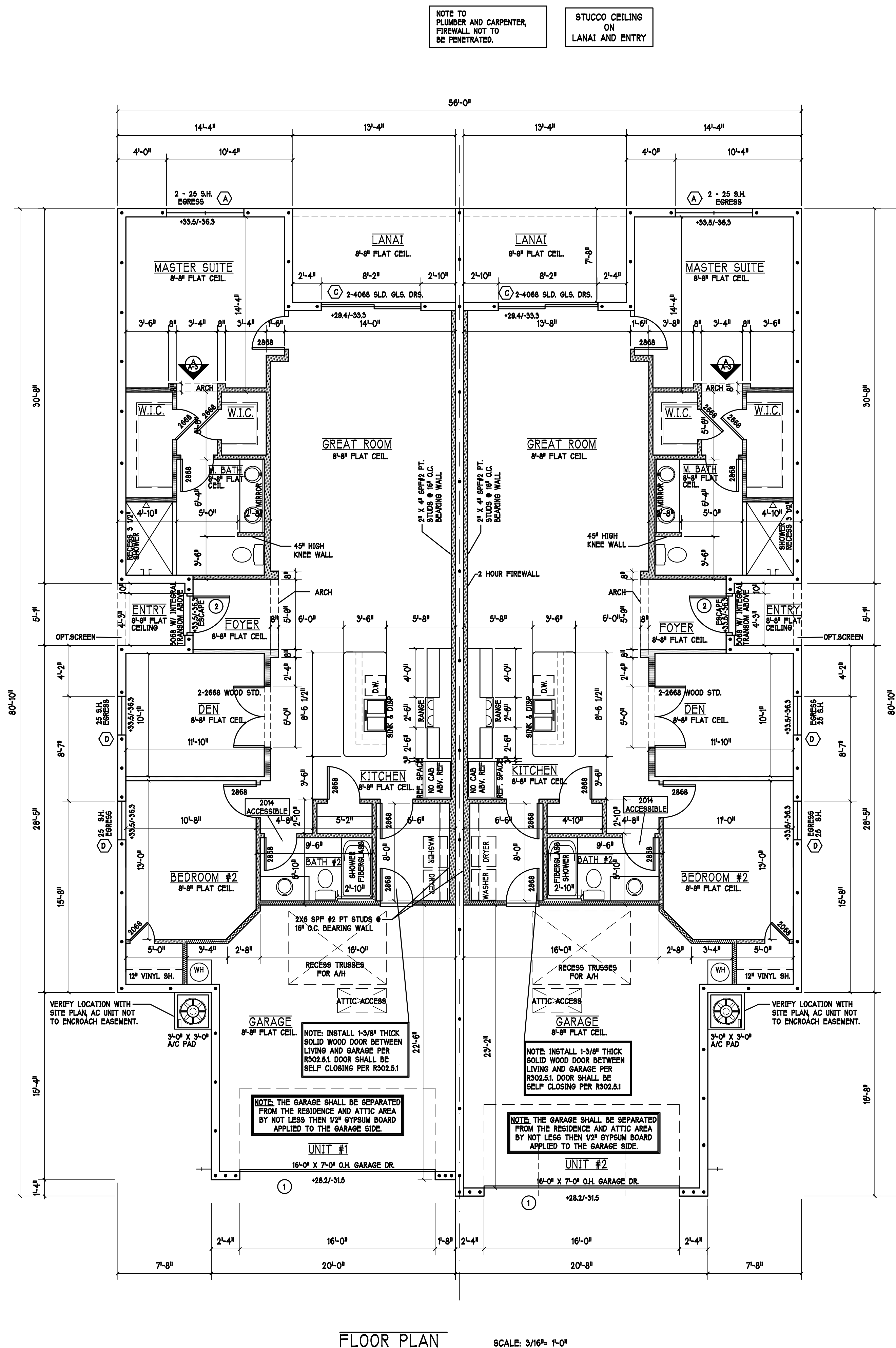


'F3' WITH CURB AT GARAGE



'F5' WITH CURB AT GARAGE

DESIGN IN ACCORDANCE W/ THE 2017 RESIDENTIAL
FLORIDA BUILDING CODE - 6th EDITION



FRAMERS NOTES:
NON BEARING INTERIOR FRAME WALLS SHALL BE FRAMED W/ WOOD OR METAL STUDS. SPACING ON STUDS SHALL NOT EXCEED 24" O.C.
NON BEARING WALLS ONLY.

WIND PRESSURES PER ASCE7-10, 160 MPH, EXPOSURE C, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. Vmax=124 MPH							
MARK	SIZE CODE	PRODUCT DESCRIPTION	WIDTH	HEIGHT	ZONE	WIND PRESSURE	QTY
①	OVERHEAD	GARAGE DOOR	182	84	4.5	+28.2/-31.5	2
②	SWING DOOR	DISTINCTION W/ INTEGRAL TRANSOM	42 1/4	80	5	+35.5/-36.3	2

WIND PRESSURES PER ASCE7-10, 160 MPH, EXPOSURE C, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. Vmax=124 MPH								
MARK	SIZE CODE	PRODUCT DESCRIPTION	WIDTH	WINDOW HEIGHT	ZONE	WIND PRESSURE	WIND-BORNE DEBRIS PROTECTION	QTY
A	2-25	S.H.	80 1/16	65 1/4	4	+35.5/-36.3	SHUTTERS	2
B	25	S.H.	38 1/2	65 1/4	4	+35.5/-36.3	SHUTTERS	4
C	2 - 4068	BL. GL. DOOR	89 3/4	80	5	+35.5/-36.3	SHUTTERS	2
D	34	S.H.	53 1/2	55 1/4	5	+35.5/-36.3	SHUTTERS	X
GARAGE DOOR ASSUMES 2' IN ZONE 5.								8

DOOR HEADERS		
6'-8" BIFOLD	HEADER HEIGHT	82" A.F.F.
6'-8" SWING	HEADER HEIGHT	82 1/2" A.F.F.
8'-0" SWING	HEADER HEIGHT	86 1/2" A.F.F.

- PLAN NOTES**
- VERIFY ALL ROUGH OPENING DIMENSIONS FOR ALL WINDOWS AND DOORS
 - PROVIDE SAFETY GLAZING WITHIN 24" FROM EXIT PER FLORIDA BUILDING CODE R 308.4.2.
 - PROVIDE SAFETY GLAZING AT BATH / SHOWER PER FLORIDA BUILDING CODE R 308.4.5.
 - NON BEARING INTERIOR FRAME WALLS SHALL BE FRAMED W/ WOOD OR METAL STUDS. SPACING SHALL NOT EXCEED 24" O.C. (NON BEARING WALLS ONLY)
 - PROVIDE DEAD WOOD IN ATTIC FOR OVERHEAD GARAGE DOOR HARDWARE
 - KITCHEN KNEE WALL TO BE FRAMED W/ TOP 4 1/2" A.F.F. W/ RAISED BAR TOP
 - INSTALL SMOOTH WALLS IN KITCHEN AND ALL BATHROOM AREAS
 - WHERE DRYWALL CEILING IS APPLIED TO TRUSSES AT 24" O.C. USE 5/8" DRYWALL OR 1/2" 5/8" RESISTANT PER SEC. 702.3.5
 - THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE & ATTIC BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED WITH NOT LESS THAN 5/8" TYPE IX GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR - CEILING ASSEMBLY THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT
 - INSTALL 1 3/8" THICK SOLID WOOD DOOR BETWEEN LIVING AND GARAGE PER FLORIDA BUILDING CODE R302.5.1. DOOR SHALL BE SELF CLOSING
 - ALL WINDOWS INSTALL 7/8" ABOVE GRADE MUST COMPLY WITH R 312.2.1 MIN 24" SILL HEIGHT OR PROVIDED WITH AN APPROVED WINDOW FALL PREVENTION DEVICE
 - STUB OUT FOR GAS 6" OUTDOOR KITCHEN, RANGE, WATER HEATER, AND DRYER. VERIFY WITH CONTRACTOR AND SUBV. SPECS. A SEPARATE PERMIT IS REQUIRED FOR GAS PIPING.
 - ALL CLOSET SHELVES TO BE 12". ALL PANTRY & LINEN TO BE 14-16" SHELVES 18" O.P.F. WITH 18" INCREMENT.

CABINET BACKING		
KITCHEN	UPPER TOP @ 84"	BASE TOP @ 35"
MASTER BATH	UPPER	BASE- TOP @ 35"
GUEST BATH	UPPER	BASE- TOP @ 35"
LAUNDRY RM.	UPPER TOP @ 84"	BASE

SQUARE FOOTAGE UNIT #1	
FLOOR LIVING AREA	1519
GARAGE AREA	457
COVERED ENTRY AREA	28
COVERED LANAI AREA	105
TOTAL AREA	2109

SQUARE FOOTAGE UNIT #2	
FLOOR LIVING AREA	1519
GARAGE AREA	454
COVERED ENTRY AREA	28
COVERED LANAI AREA	105
TOTAL AREA	2106

DESIGN IN ACCORDANCE W/ THE 2017 RESIDENTIAL FLORIDA BUILDING CODE - 6th EDITION

D.R. HORTON
America's Builder

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

MODEL: 1519 - SIGNATURE

RESIDENCE FOR: SPEC

LOT: 218-219

SUBDIV: THE GROVE TV'S

ADDRS: 10873-10877 MARBLE BROOK BLVD

G.C.D. #: 10083 D.R.H. #: 579380059-060

DATE: 01-10-17

DRAWN BY: JSL

CHECKED BY: J.W.C.

REVISED: 03-29-18

PLAN: FLOOR

SCALE: 3/16" = 1'-0"

SHEET#

A3

Diagram illustrating the Beveled Blocking assembly:

- ROOF SHEATHING
- 8d RING SHANK
● 6" O.C.
- ROOF TRUSS
- 16d NAILS ●
8" O.C.
- 2" X 1" BLOCKING W/
BEVEL CUT TOP, BLOCKING
CAN BE ON EITHER SIDE
OF TRUSS

BEVELED BLOCKING

[illegible]

PAC INTERNATIONAL
*Bearing the UL Classification Mark

SCALE: 3/16"=1'-0"

- 1) ROOF TRUSS BEARING ELEVATION 8'-8".
- 2) ROOF FRAMING SHALL BE WOOD TRUSSES DESIGNED BY A DELEGATED TRUSS ENGINEER PER DESIGN CRITERIA ON SHEET S-1.
- 3) PROVIDE DRAWING AT TRUSSES PER NOTES ON THIS SHEET.
- 4) FOR NAILING OF ROOF DECK, SEE 1 AND 2 ON S-1.
- 5) 8'-8"-18' etc., DENOTES TRUSSING SPACING ABOVE DOOR/WINDOW OPENING PER SCHEDULE THIS SHEET.

NOTES:

- 1) PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE AND SUITABLE FOR THE GEOMETRY. EMBED STRAP ON C/L OF WALL.
- 2) CONNECTORS ARE USP STRUCTURAL CONNECTIONS. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE U.S. PREFERRED INSTRUCTIONS.
- 3) SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.
- 3) WHERE EMBEDDED STRAPS ARE MISSING, OR MIS-LOCATED, INSTALL RETROFIT STRAP PER DETAIL 2/S-4.
- 4) 'ATR' = ALLTHREAD. DRILL AND EPOXY WITH USP EPOXY PER MFR. INSTRUCTIONS.

R2

Diagram illustrating the reinforcement details for a precast lintel. The diagram shows a cross-section of the lintel with a hook and vertical reinforcement.

Labels and Dimensions:

- HOOK #5 BAR INTO TOP OF BOND BEAM
- WALL ABOVE WITH BOND BEAM AT TOP
- #5 VERTICAL ABOVE LINTEL ONLY WHERE NOTED ON PLAN
- '1B' DENOTES 1#5 BOTTOM WITH 7" HOOK EACH END OR EXTEND 24" BEYOND OPENING.
- '0B' DENOTES "NO REBAR"
- 8" PRECAST LINTEL
- 8FB-1B
- 8FB-0B
- 8FB16-1B/1T
- 1 #5 TOP
- 8" GROUDED
- 16" GROUDED
- #5 BOTTOM

PRECAST LINTEL SCHEDULE

AT SWING DOORS, USE 2" RECESS STYLE
LINTEL IF NEEDED FOR ROUGH OPENING.

TRUSS BEARING CONDITIONS AND
STRAPPING IS BASED
ON TRUSS LAYOUT PREPARED BY SCOSTA CORP
JOB # 44150 DATED: 10/15/15 REVISED: 6/26/17

DESIGN IN ACCORDANCE W/ THE 2017 RESIDENTIAL
FLORIDA BUILDING CODE - 6th EDITION

TYPE OF AGGREGATE	FIRE - RESISTANCE RATING [HOURS]			
		2		
PUMICE OR EXPANDED SLAG		3.2		
EXPANDED SHALE, CLAY OR SLATE		3.6		
LIMESTONE, CINDERS, OR EXPANDED SLAG		4.0		

1. STANDARD 8" HOLLOW MASONRY HAS 4.0" EQUIVALENT SOLID THICKNESS. THEREFORE ANY OF THE LISTED AGGREGATES IS ALLOWED.
2. NOTE: CALCAREOUS OR SILICEOUS GRAVEL IS A 4TH TYPE WHICH IS NOT ALLOWED.

NOTE TO
PLUMBER AND CARPENTER,
FIREWALL NOT TO
BE PENETRATED.

REVISIONS

MARK	DATE	DESCRIPTION
	03-28-18	NO BURN REMOVED FROM PLAN
		MASONRY AGGREGATE UPDATED.

WALL HEIGHT = 8'-8"

FULL HEIGHT WALL PER SHEET S-2

MODEL:	LOT: 218-219	BLOCK:
--------	--------------	--------

519 - SIGNATURE

RESIDENCE FOR:

DATE: 01-10-17

DRAWN BY:

CHECKED BY:
J.W.C.

REVISED:
 03-29-18

ROOF PLAN

$$3/16'' = 1'-0''$$

SHEET#

A4

LOT: 218-219 BLOCK :
SUBDIV: THE GROVE IV'S
ADRS: 10873-10877 MARBLE BROOK BLVD
G.C.D. # : 10083 D.R.H. #: 57938059-060

formed by the Structural Engineers of Record only. No work was performed by the SER in mechanical, plumbing, electrical, fire, life, civil, or geotechnical.

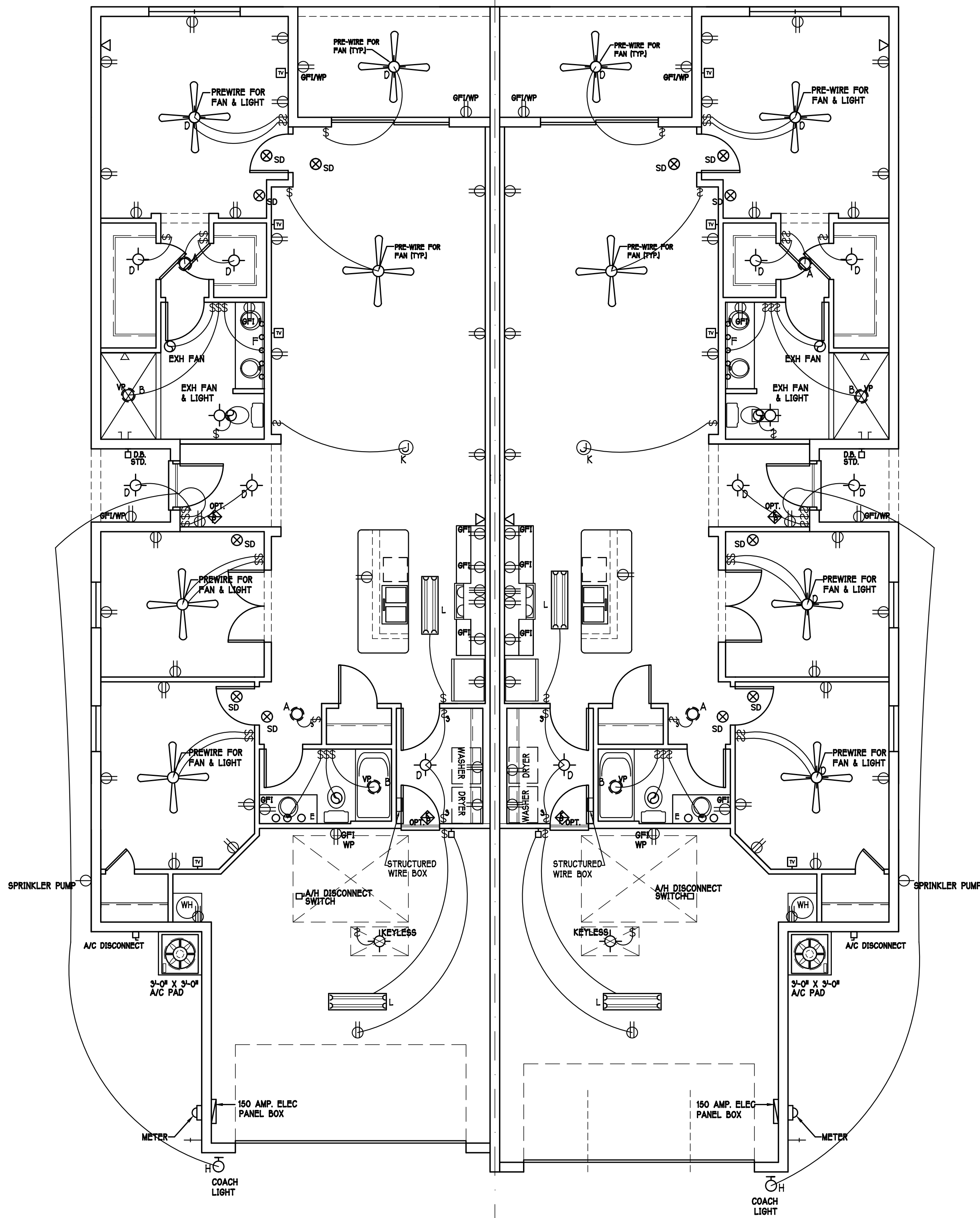
STRUCTURAL ENGINEERING

STRUCTURAL SYSTEMS OF NORTH FLORIDA

1634 S.E. 47th ST SUITE #300
CAPE CORAL, FL 33909
(239) 549-4554

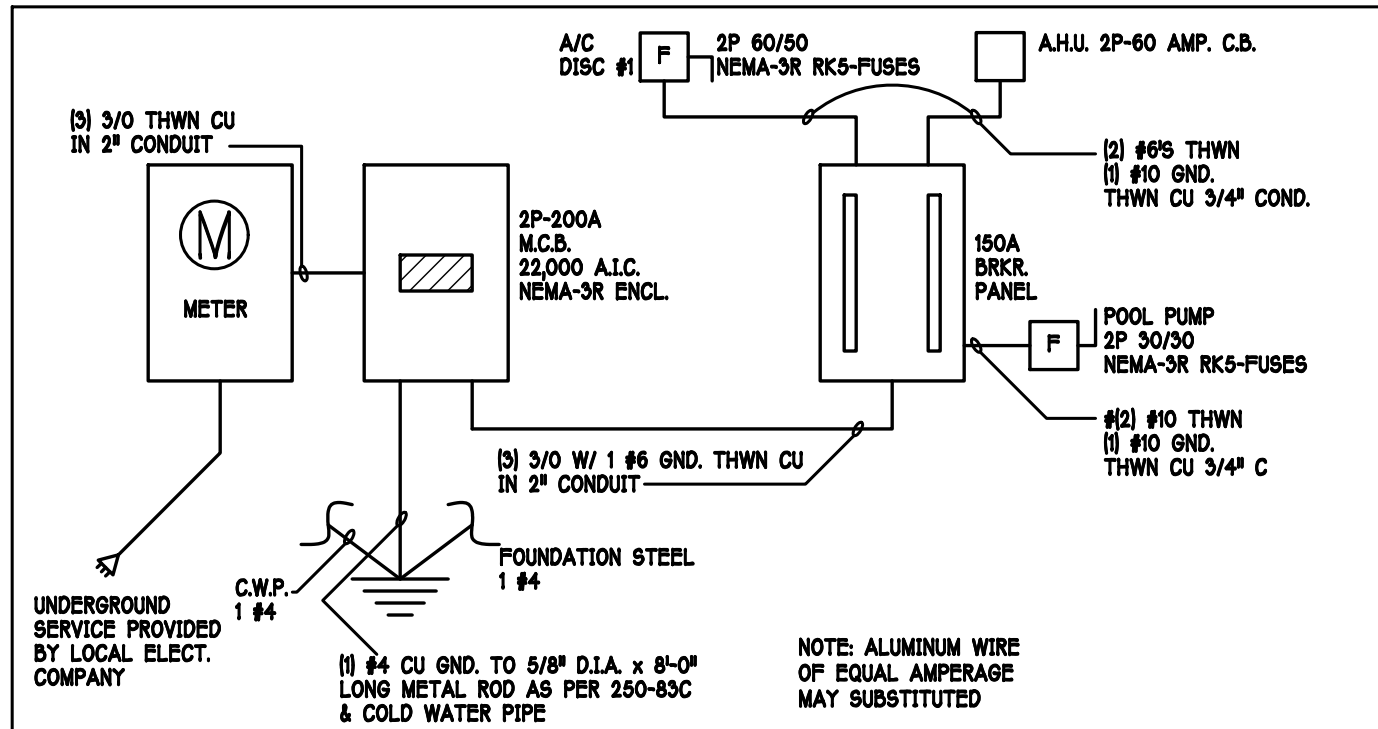
**Gulf Coast Drafting
& Design**
Phone (239) 540-1822
Fax (239) 540-7759

D·R·HORTON · PRI NYSE
America's Builder



ELECTRICAL PLAN SCALE: 3/16"= 1'-0"

AIR CONDITIONING COORDINATION REQUIRED.
PRIOR TO ORDERING ROOF TRUSSES, THE CONTRACTOR SHALL WORK WITH THE AIR CONDITIONING SUB CONTRACTOR TO DESIGN/PLAN AND LAYOUT THE LOCATION OF AIR HANDLING EQUIPMENT, AIR DUCT SIZE AND LOCATION AND COORDINATE THAT DESIGN WITH THE TRUSSES FOR SPACE, CONNECTIVITY, AND POSITION REQUIREMENTS. THE CONTRACTOR MUST ADVISE THE TRUSS COMPANY PRIOR TO ANY CONSTRUCTION OF TRUSSES OF THE AIR CONDITIONING/HANDLING EQUIPMENTS SIZES AND WEIGHT AND DUCT LAYOUT CONCERNS OR REQUIREMENTS THAT MAY HAVE THE POTENTIAL TO CHANGE OR MODIFY THE TRUSSES TO ACCOMMODATE THE SAME. THE CONTRACTOR SHALL COORDINATE CONDENSATION DISCHARGE LINE LOCATION, AND ELECTRICAL SERVICE TO AIR EQUIPMENT, AND PROVIDE ANY LOCAL DISCONNECTS, LIGHTS AND SERVICE PLATFORMS THAT MAY BE REQUIRED.



Electrical Notes:
All outlets in wet areas and all exterior outlets to be GF's
All electrical equipment to be set at or above base flood elevation.

ELECTRICAL NOTES FOR FIRE RATED WALLS
ELECTRICAL OUTLETS PLACED IN FIRE RATED WALLS SHALL BE IN CONFORMANCE WITH THE UNDERWRITERS LABORATORIES, INC., FIRE RESISTANCE DIRECTORY, CURRENT EDITION. THESE REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING SPECIFIC ITEMS:
A) INDIVIDUAL OUTLET/SWITCH BOXES SHALL NOT EXCEED (6) SQUARE INCHES IN AREA.
B) AGGREGATE AREA OF OUTLET/SWITCH BOXES SHALL NOT EXCEED (60) SQUARE INCHES WITHIN (100) SQUARE FEET OF WALL AREA.
C) OUTLET/SWITCH BOXES LOCATED ON OPPOSITE SIDE OF THE SAME WALL WAHLL BE SEPERATED BY A MINIMUM OF (24) INCHES.
D) ALL OUTLET/SWITCH BOXES SHALL BE SECURELY ATTACHED TO THE STUDS AND THE OPENING IN THE WALLBOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE WALLBOARD DOES NOT EXCEED 1/8 INCH.

ELECTRICAL LEGEND

	ELECTRICAL METER
	ELECTRICAL PANEL
	120 V JUNCTION BOX
	SINGLE RECEPTACLE OUTLET
	230 V RECEPTACLE OUTLET
	4-FLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	1/2 SWITCHED DUPLEX OUTLET
	DUPLEX RECEPTACLE @ ELEV. A.F.F.
	TIMER SWITCH
	GF1 SWITCH
	DIMMER SWITCH
	3 WAY SWITCH
	SINGLE POLE SWITCH
	AC/DC SMOKE DETECTOR TO BE INTERCONNECTED ANY RESIDENT HAVING A POSSIBLE-BURNING HEATER OR APPLIANCE, A FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE ALARM INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PERPOSES. PER RULE 90-3.04.72 80 SMOKE DETECTOR SCD (CARBON MONOXIDE/SMOKE DETECTOR
	TELEPHONE OUTLET
	TELEVISION RECEPTION OUTLET
	SURFACE MOUNTED CEILING LIGHT
	RECESSED LIGHT
	WALL MTD. BRACKET LIGHT
	DUPLEX FLOOD LIGHT
	EXHAUST FAN
	TRACK MTD. LIGHTS
	A/C DISCONNECT
	PUSH BUTTON
	DOOR BELL
	KEYPAD
	FLUORESCENT LIGHT
	2' UNDER COUNTER LIGHT

Electrical Notes:
Install Arc-Fault circuit-Interrupers & Tamper-Resistant Receptacles
shall be installed in dwelling unit. per NEC 210.12 & 406.11
All electrical equipment to be set at or above base flood elevation.
All outlets in wet areas and all exterior outlets to be GF's
Install Phone & T.V. per contract .
INSTALL ALL ELECTRICAL PER NEC 2011

DESIGN IN ACCORDANCE W/ THE 2017 RESIDENTIAL
FLORIDA BUILDING CODE - 6th EDITION

D.R.HORTON
America's Builder

Gulf Coast Drafting
& Design
Phone (239) 540-1822
Fax (239) 540-7759

LOT: 218-219 BLOCK :
SUBDIV: THE GROVE IV'S
ADDRESS: 10873-10877 MARBLE BROOK BLVD
D.R.H. #: 579380059-060
MODEL: 1519 - SIGNATURE
RESIDENCE FOR: SPEC

DATE: 01-10-17
DRAWN BY: JSL
CHECKED BY: J.W.C.
REVISED: 03-29-18
PLAN: ELECTRICAL
SCALE: 3/16" = 1'-0"
SHEET#

A5

1
RESIDENTIAL SPECIFICATIONS
GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL SUPPLY, LOCATE AND BUILD INTO THE WORK ALL INSERTS, ANCHORS, ANGLES, PLATES, OPENINGS, SLEEVES, HANGERS, SLAB DEPRESSIONS AND FITCHES AS MAY BE REQUIRED TO ATTACH AND ACCOMMODATE OTHER WORK.
3. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE IN THE WORK EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
4. SUBSURFACE SOIL CONDITION INFORMATION IS NOT AVAILABLE. FOUNDATIONS ARE DESIGNED FOR A SOIL BEARING CAPACITY OF 2000 PSF. THE CONTRACTOR SHALL REPORT ANY DIFFERING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.
5. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATION AND HOUSE PLANS, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. ALL SPECIFIED FASTENERS MAY ONLY BE SUBSTITUTED IF APPROVED BY THE ENGINEER IN WRITING. THE INSTALLATION OF THE FASTENERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. SIMPSON FASTENERS SPECIFIED MAY BE SUBSTITUTED WITH THE SAME QUANTITY AND EQUIVALENT STRENGTH PRODUCT.
7. TREATED WOOD REQUIREMENTS- ALL WOOD EXPOSED TO WEATHER SHALL BE PROTECTED, PRESURE TREATED, OR NATURALLY RESISTANT TO DECAY. ALL WOOD TOUCHING MASONRY OR CONCRETE SHALL BE ISOLATED, OR PRESURE TREATED.
8. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE DOWNS.
9. CEILING DRYWALL INSTALLED WITHIN THE HOUSE TO TRUSSES SPACED 24" O.C. SHALL BE 5/8" DRYWALL OR 1/2" S&G RESISTANT PER SEC. 702.3.5
10. LANAI CEILINGS & COVERED ENTRY CEILINGS
1x4 STRIPPING @ 16" O.C. FASTENED WITH 8d NAILS OR 1-5/8" DRYWALL SCREWS @ 6" ON EDGE AND FIELD.

- 2
DOOR AND WINDOW ANCHORAGE
- ANCHORAGE REQUIREMENTS- ALL PASS AND SLIDING GLASS DOORS AND ALL WINDOW ASSEMBLIES SHALL BE ANCHORED TO THE MAIN WIND FORCE RESISTING SYSTEM IN A MANNER SPECIFIED BY THE PUBLISHED MANUFACTURERS LITERATURE. THERE SHALL BE NO SUBSTITUTION OF ALTERNATE FASTENERS UNLESS PROVIDED BY THE MANUFACTURER AND APPROVED BY THE BUILDING DESIGN ENGINEER.
- MASONRY OPENING
WHERE WINDOW FRAME IS DESIGNED TO FASTEN WITH SCREWS THROUGH THE FRAME AND INTO THE MASONRY, THE BUCK MATERIAL IS SIMPLY A SPACER. THE BUCK MAY BE FASTENED WITH 1 NAIL OR ANY SUITABLE FASTENER TO DUCK IT INTO POSITION PRIOR TO WINDOW INSTALLATION. FASTEN WINDOW FRAME PER MFR INSTRUCTIONS. A WINDOW FASTENER SHALL PENETRATE MASONRY BY 2 1/4" MIN.
- WHERE WINDOW FRAME IS DESIGNED TO FASTEN ONLY TO THE WOOD BUCK (IE. FLANKED FRAME WITH WOOD SCREWS) THE BUCKS SHALL BE 2x WOOD WITH STRUCTURAL FASTENING TO THE MASONRY WITH 1/4x 3 3/4" MASONRY SCREWS @ 24" O.C. AND 6" FROM EACH END.
- WOOD FRAMED OPENINGS- ALL DOORS AND WINDOWS SHALL BE INSTALLED ACCORDING TO THE PUBLISHED MANUFACTURERS LITERATURE OF THE ASSEMBLY BEING INSTALLED TO THE ROUGH SUBSTRATE OPENING. SHIMS SHALL BE MADE OF MATERIALS CAPABLE OF RESISTING THE APPLIED LOADS AND SHALL BE LOCATED NEAR EACH FRAME FASTENER TO MINIMIZE DISTORTION OF THE FRAME AS THE FASTENERS ARE TIGHTENED.

- 3
GENERAL ROOF ASSEMBLY
- ROOF SHEATHING
SHALL BE APA RATED SHEATHING, EXPOSURE 1, SPAN RATING 24/16 OR BETTER. INSTALL PANELS WITH LONG DIMENSION PLACED PERPENDICULAR TO TRUSSES. A 1/8" SPACE BETWEEN ADJACENT SHEETS SHALL BE MAINTAINED. INSTALL 1/4" CLIPS AT UNSUPPORTED PANEL EDGES. THE ROOF SHEATHING SHALL BE NAILED WITH 8d RING SHANK NAILS @ 6" O.C. EDGE AND FIELD. ENSURE THAT ALL NAILS PENETRATE THE TOP CHORD OF THE TRUSS WITHOUT SPLITTING. RING SHANK NAILS PER R803.2.1 - 0.15" NOMINAL SHANK DIAMETER, RING DIA. OF 1.00" OVER SHANK DIAMETER, 16 TO 20 KINGS PER INCH, 0.260" DIAMETER FULL ROUND HEAD, 2" NAIL LENGTH.
- FLASHING
FLASHING SHALL BE ALUMINUM ALUMINUM ZINC COATED STEEL .079 INCHES THICK, 26 GAUGE AZ50 ALUM ZINC, OR GALVANIZED STEEL .079 INCHES THICK, 26 GAUGE ZINC COATED G90. FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THE ZIP SYSTEM ROOF SHEATHING MANUFACTURERS PUBLISHED REQUIREMENTS. ALL FLASHING AND INSTALLATION SHALL CONFORM TO SECTION R805.2.8 (I) TO (J).
- DRIP EDGE
DRIP EDGE SHALL BE PROVIDED AT ALL EAVES AND GABLES OF SHINGLE ROOFS. LAPPED A MINIMUM OF 3" @ JOINTS. THE OUTSIDE EDGE SHALL EXTEND A MINIMUM OF 1/2" BELOW SHEATHING AND THE INSIDE EDGE SHALL EXTEND BACK A MINIMUM OF 2". DRIP EDGE SHALL BE FASTENED AT NO MORE THAN 4" CENTERS. THERE SHALL BE A MINIMUM OF 4" WIDTH OF ROOF CEMENT INSTALLED OVER THE DRIP EDGE FLANGE.

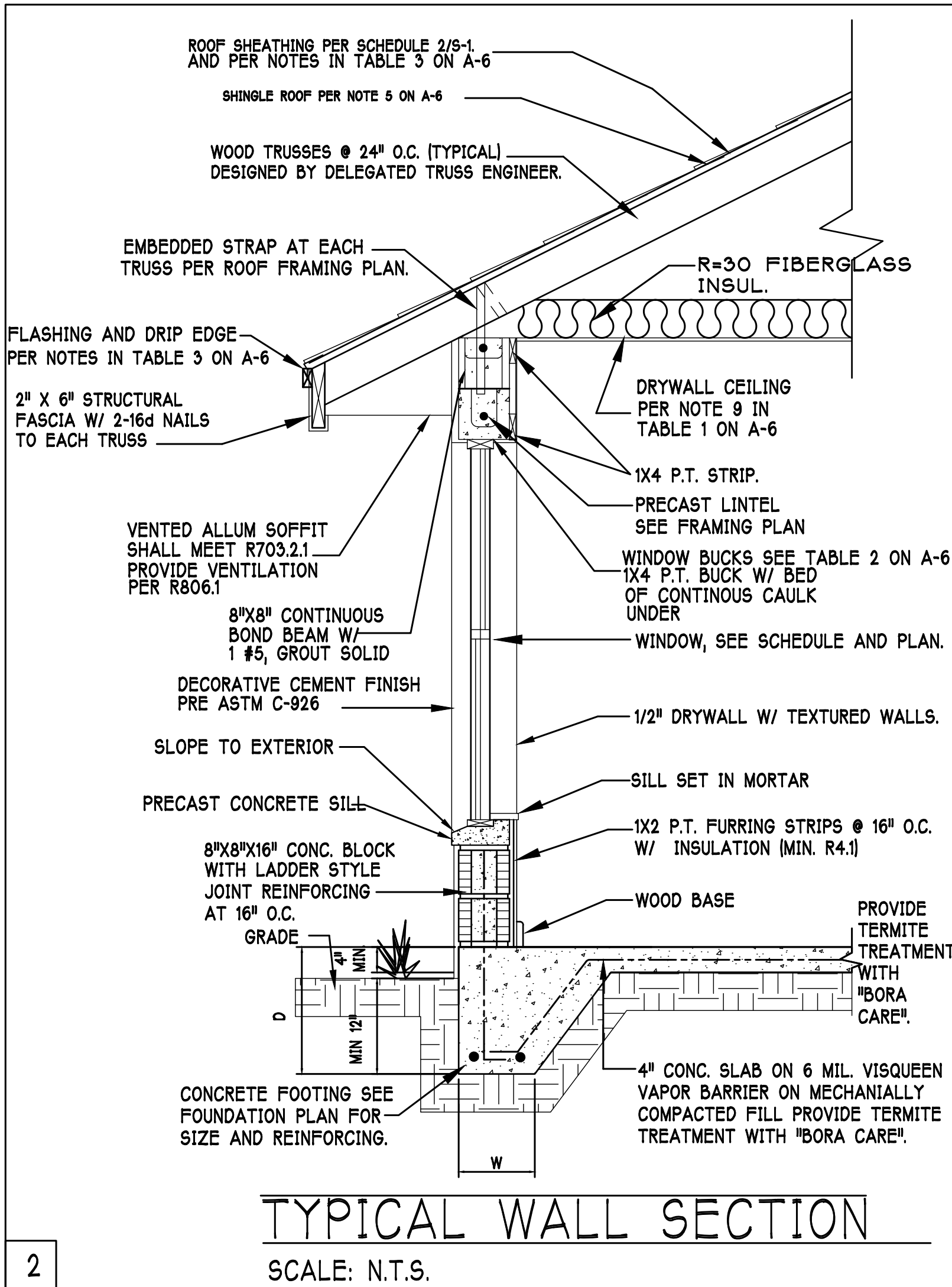
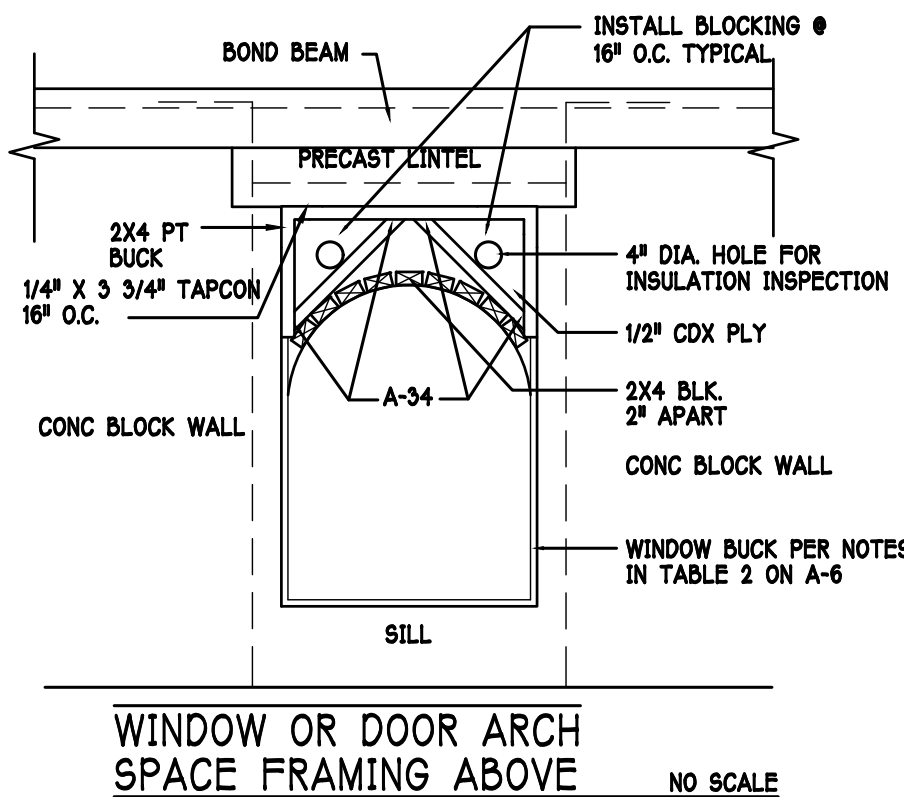
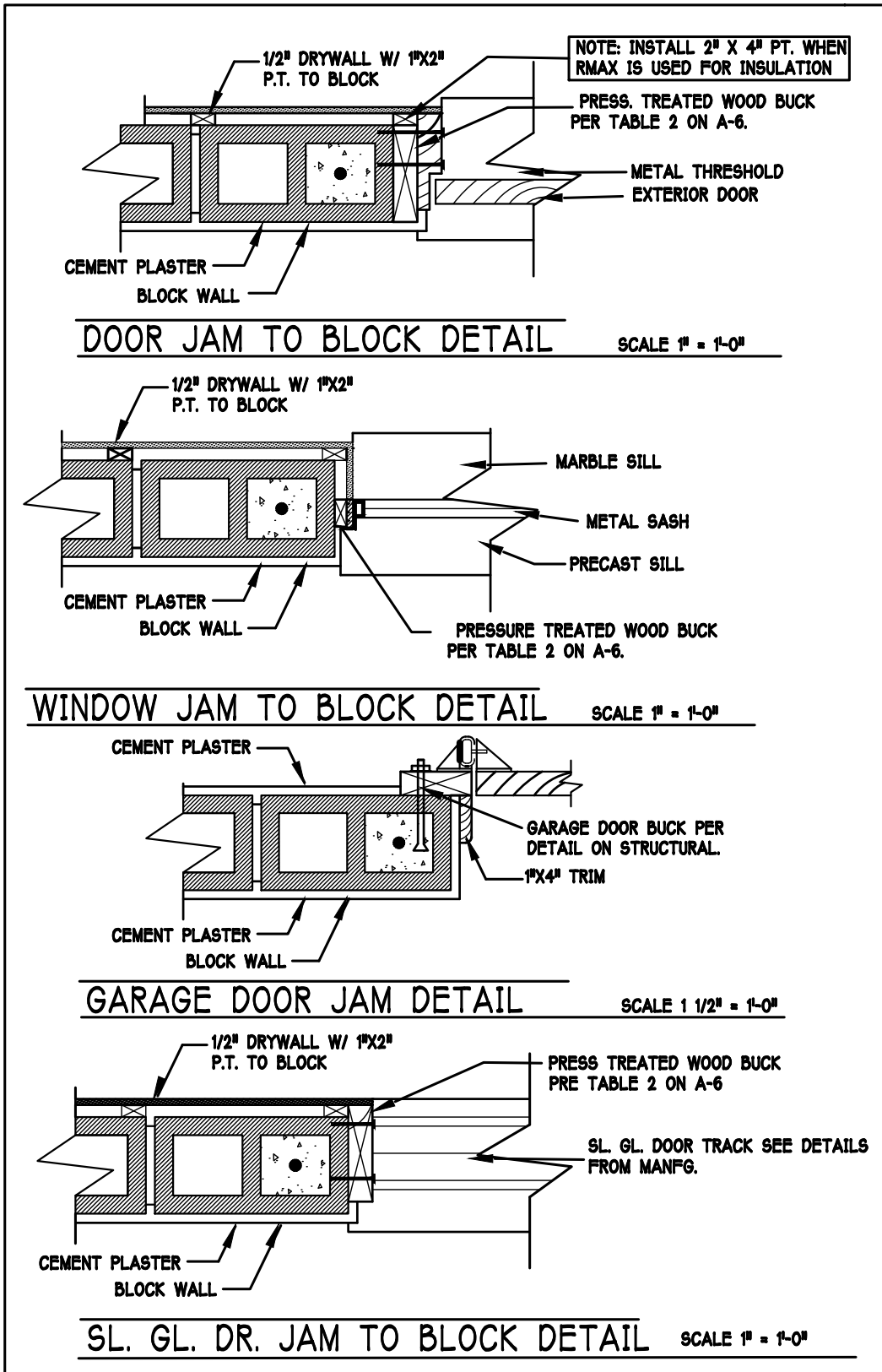
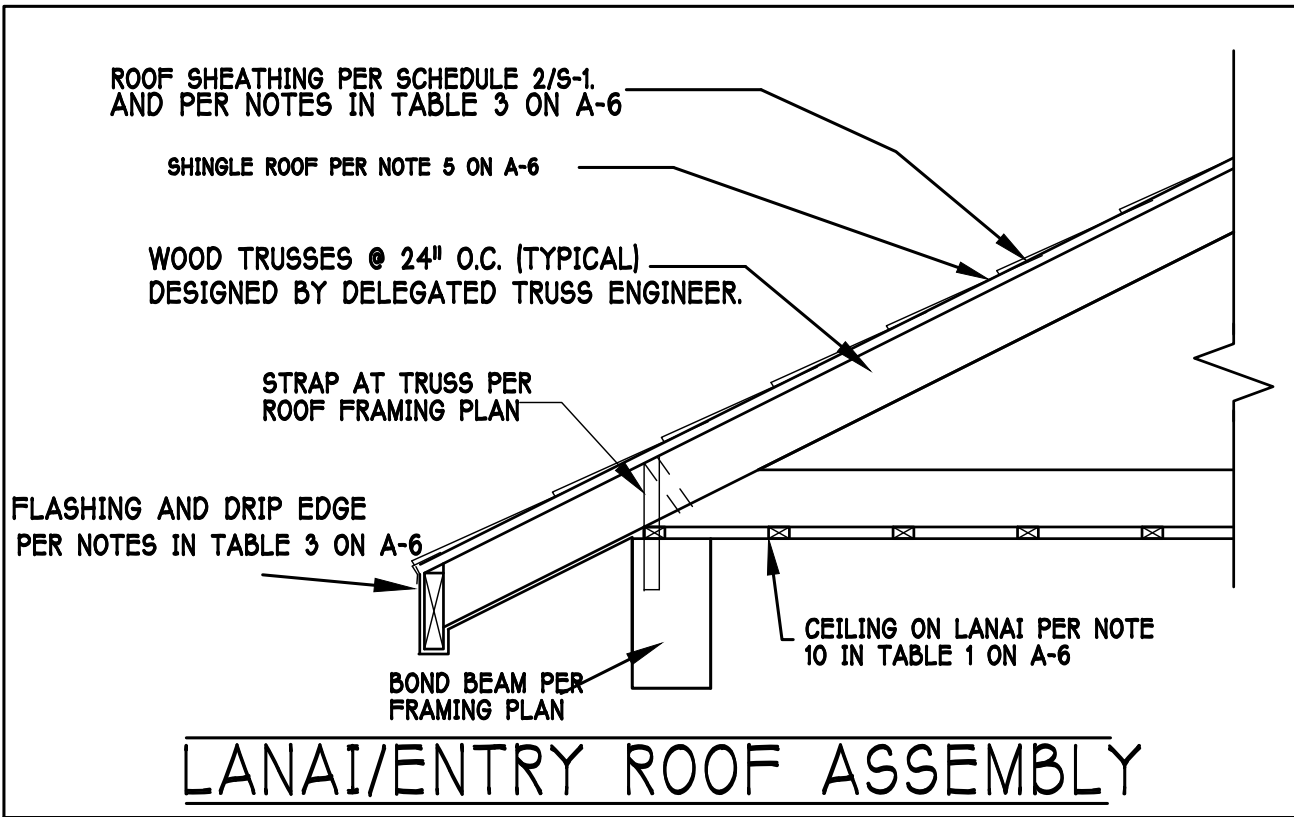
- 4
WOOD FRAMING:
1. ALL WOOD FRAMING SHALL BE FABRICATED AND INSTALLED PER NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
 2. UNLESS NOTED OTHERWISE THE FOLLOWING MINIMUM GRADES SHALL BE USED:
A. INTERIOR BEARING WALLS SPF #2
B. RAFTERS, JOISTS, HEADERS AND BEAMS SYP #2, EXTERIOR BEARING WALLS,
C. TREATED WOOD REQUIREMENTS: ALL WOOD EXPOSED TO WEATHER SHALL BE PROTECTED, PRESURE TREATED, OR NATURALLY RESISTANT TO DECAY. ALL WOOD TOUCHING MASONRY OR CONCRETE SHALL BE ISOLATED, PRESURE TREATED.
 3. CONTRACTOR SHALL PROVIDE ALL FASTENING DEVICES AS SHOWN ON THE DRAWINGS AND AS NECESSARY AND SUITED FOR EACH APPLICATION. FASTENING SUBJECT TO MOISTURE SHALL BE HOT DIP GALVANIZED TO ASTM A-153-80, OR STAINLESS STEEL.
 4. ALL METAL CONNECTIONS AND FABRICATIONS SHALL COMPLY WITH AISC SPECIFICATIONS.
 5. SOLID BLOCK ALL JOISTS AND RAFTERS AT POINTS OF SUPPORT.
 6. PREFABRICATED STRUCTURAL TRUSSES SHALL COMPLY WITH NFA NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, TPI DESIGN SPECIFICATIONS FOR METAL PLATE WOOD TRUSSES AND ATTIC 100.
 7. ALL TRUSSES SHALL BE DESIGNED AND CERTIFIED BY THE TRUSS MANUFACTURER'S STATE OF FLORIDA REGISTERED ENGINEER.
 8. CONTRACTOR SHALL CORRELATE WITH TRUSS MANUFACTURER TO ENSURE THAT ADEQUATE BEARING IS PROVIDED AT END REACTIONS OF ALL GIRDER TRUSSES.
 9. TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE CONTRACTOR AND DESIGNER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF DIMENSIONS, MATERIALS AND CONDITIONS.
 10. AT VOLUME CEILING CONDITIONS, ALIGN TRUSSES TO PROVIDE A SMOOTH AND UNBROKEN INTERIOR WALL SURFACE FROM FLOOR TO CEILING.
 11. BRACE TRUSSES DURING ERECTION AND AFTER PERMANENT INSTALLATION TO COMPLY WITH TPI BW-76.
 12. MICRO-LAMBS (OR EQUAL PARALAMBS, LVL'S, ETC) SHALL BE USED WHERE SPECIFIED ON ENGINEERED PLANS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ANY EDGES OR ENDS EXPOSED TO THE WEATHER SHALL BE PROTECTED BY THE INSTALLATION OF 26 GA. MIN. GALVANIZED STEEL FLASHING.
 13. SPLICES IN MULTI-BOARD CONTINUOUS BEAMS SHALL BE ALLOWED FOR ONE BOARD ONLY PER SPAN AND ONLY AT THE QUARTER POINT OF THE SPAN, UNLESS SHOWN OTHERWISE.
 14. SPACE FRAMING OF ARCHES UNDER THE BEAM SHALL BE FILL IN FRAME UNLESS NOTED OR CONSTRUCTED OTHERWISE.

- 5
ASPHALT SHINGLE ROOF SPEC'S

- 6
CLAY AND CONCRETE TILE ROOF SPECS
- INSTALL PEEL AND STICK UNDERLAYMENT APPROVED FOR SINGLE LAYER APPLICATION UNDER TILE ROOF. THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF R803.5 F.D.C. MARKING EACH ROOF TILE SHALL HAVE A PERMANENT MANUFACTURER'S IDENTIFICATION MARK. APPLICATION SPECIFICATIONS: THE TILE MANUFACTURER'S WRITTEN APPLICATION SPECIFICATIONS SHALL BE AVAILABLE AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
1. TILE PLACEMENT AND SPACING,
2. ATTACHMENT SYSTEM NECESSARY TO COMPLY WITH CURRENT WIND CODE,
3. AMOUNT AND PLACEMENT OF MORTAR,
4. AMOUNT AND PLACEMENT OF ADHESIVE,
5. TYPE, NUMBER, SIZE, AND LENGTH OF FASTENERS AND CLIPS,
6. UNDERLAYMENT,
7. SLOPE REQUIREMENT.

- 7
FLOOR SHEATHING AT 2ND FLOOR
- APA RATED STURDI-FLOOR, EXPOSURE 1, TONGUE & GROOVE EDGES SPAN RATING 48/24 OR BETTER, GLUE AND NAIL W/ 10d COMMON @ 6" O.C. EDGE AND FIELD.

- 8
EXTERIOR WALL SHEATHING
- SHALL BE 7/16" THICK ZIP SYSTEM WALL SHEATHING MANUFACTURED BY HUBER ENGINEERED WOODS LLC. INSTALL PANELS WITH A 1/8" GAP BETWEEN EDGES AND FASTEN WITH 8d COMMON NAILS @ 6" O.C. EDGE AND FIELD. IF PANELS ARE INSTALLED HORIZONTALLY, BLOCKING SHALL BE INSTALLED BEHIND PANEL JOINTS. ALL SEAMS IN THE SHEATHING SHALL BE SEALED WITH THE ZIP SYSTEM SELF ADHERING SEAM TAPE USING THE ZIP SYSTEM APPLICATOR GUN. THE USUAL TYVEK HOUSE WRAP IS NOT REQUIRED.



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America's Builder

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STRUCTURAL SYSTEMS
STRUCTURAL ENGINEERING
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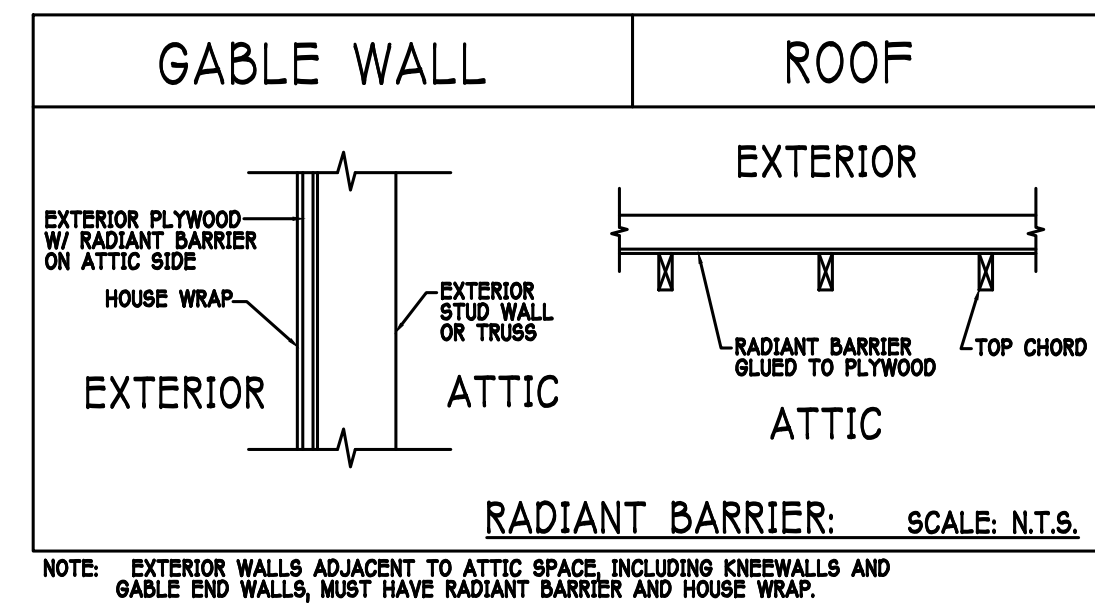
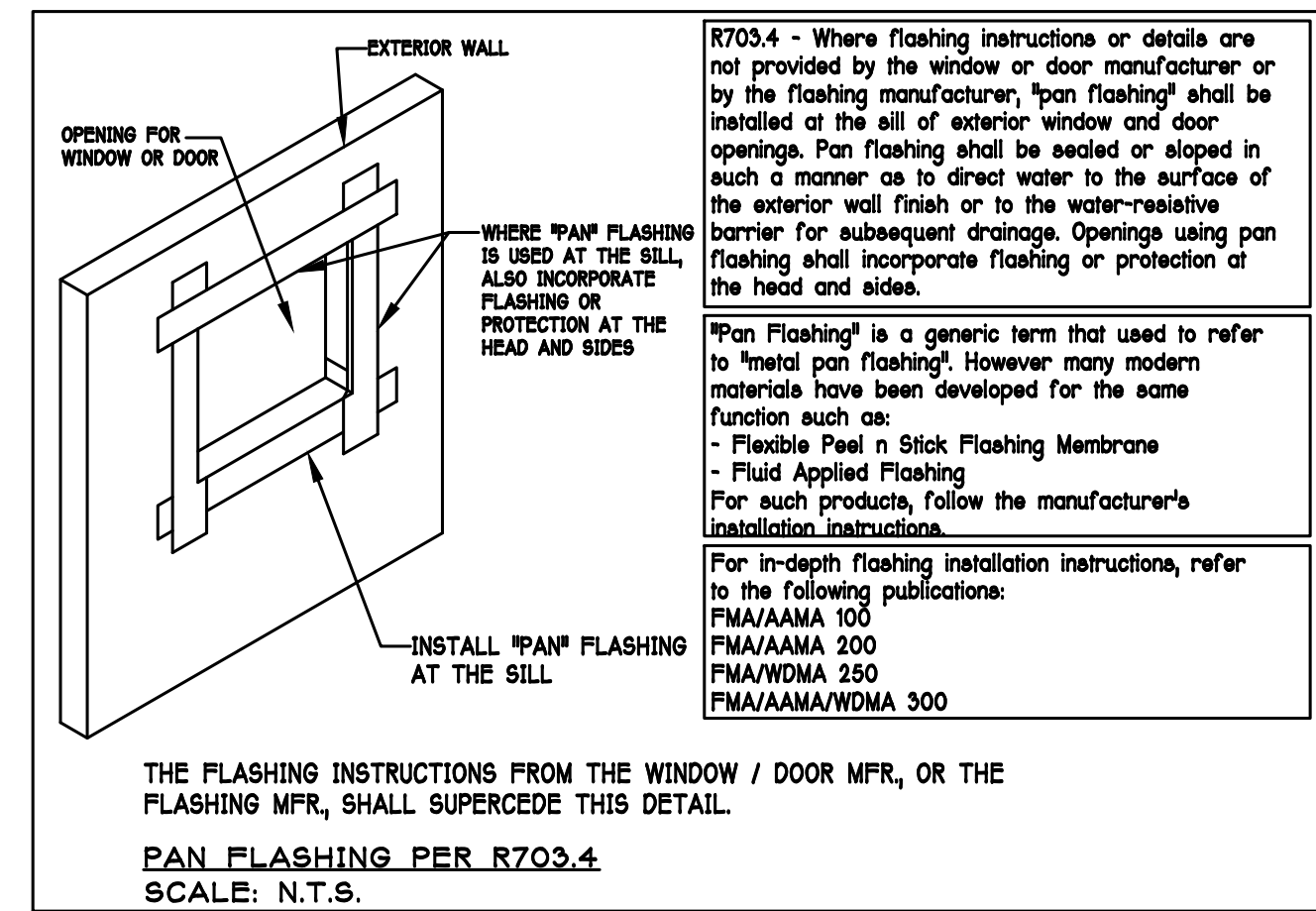
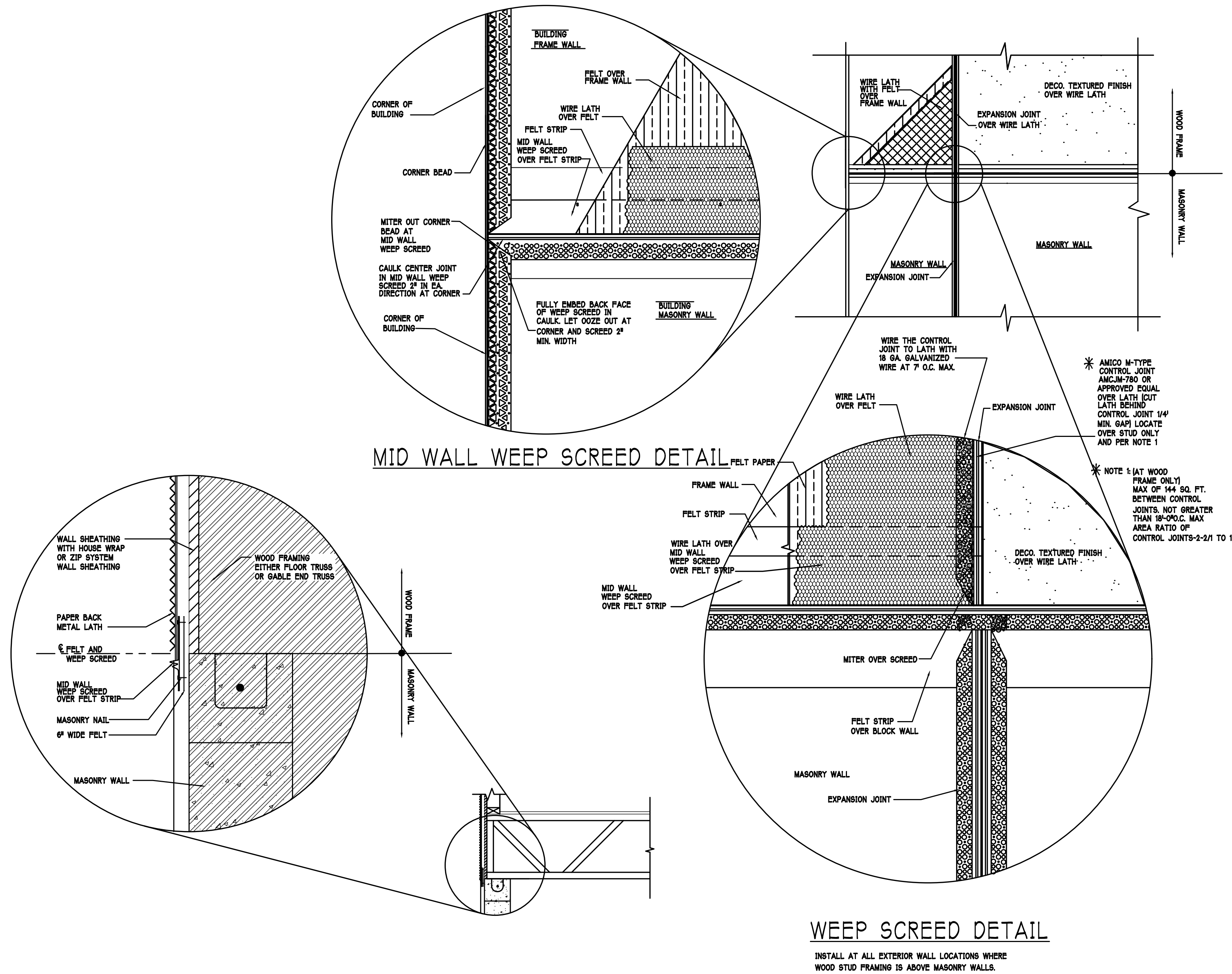
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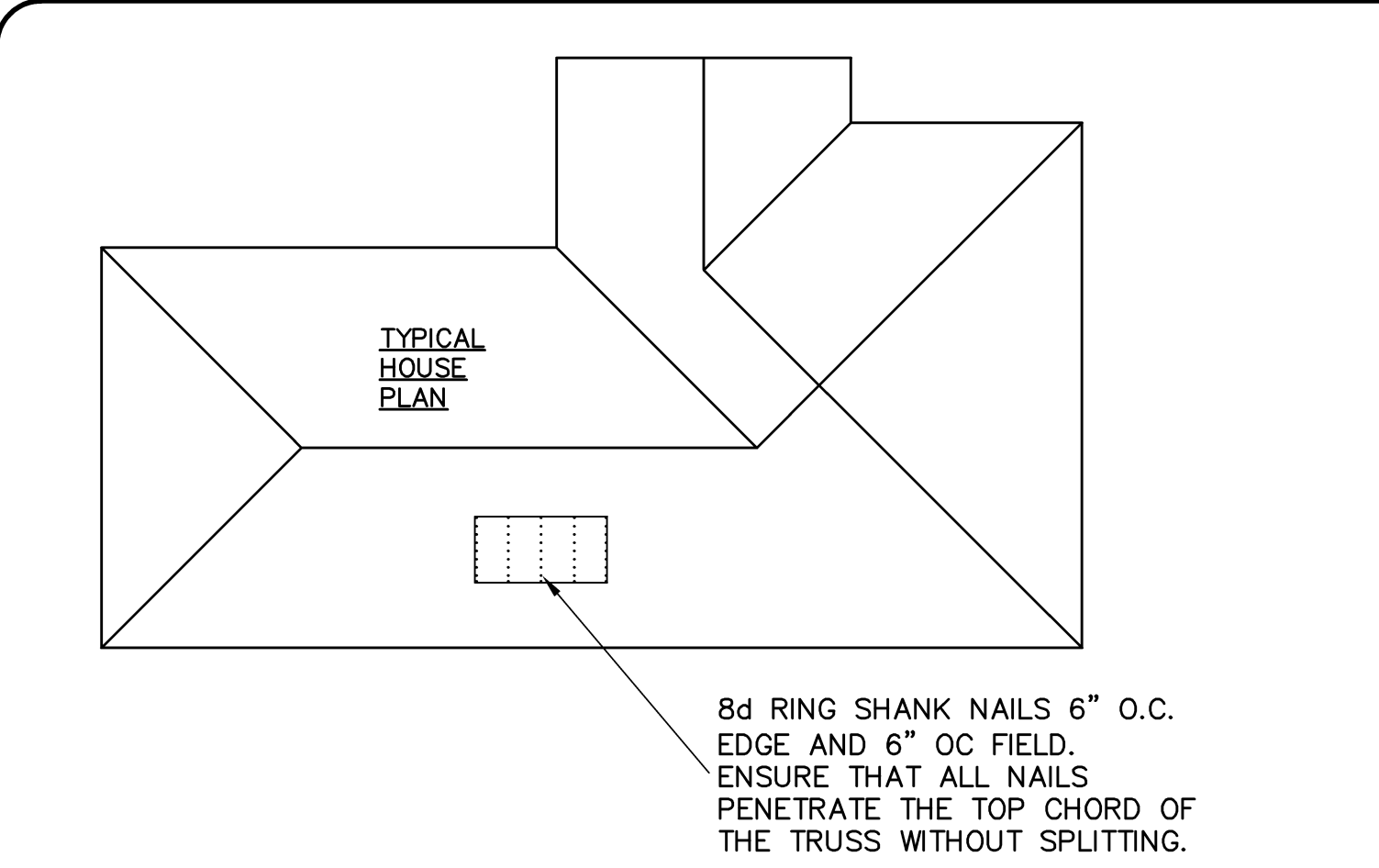
LOT: 218-219
BLOCK: 1
SUBDIV: THE GROVE IV'S
ADDRESS: 10873-10877 MARBLE BROOK BLVD
G.C.D. #: 10083 D.R.H. #: 579380059-060

MODEL: 1519 - SIGNATURE
RESIDENCE FOR: SPEC

DATE: 01-10-17
DRAWN BY: JSL
CHECKED BY: J.W.C.
REVISED: 03-29-18
PLAN: SECTION
SCALE: N.T.S.
SHEET#

A-6





1 **ROOF DECK NAILING PATTERN**
SCALE: NTS

SHEATHING SCHEDULE	
EXTERIOR STUD WALL	FLOOR
7/16" ZIP SYSTEM WALL SHEATHING BY HUBER ENGINEERED WOODS LLC, NAILED W/ 8d COMMON WIRE @ 6" O.C. EDGE AND 6" O.C. FIELD. PROVIDE 2x4 BLOCKING AT ALL JOINTS. INSTALL SHEATHING AND SEAM TAPE IN STRICT ACCORDANCE WITH MFR. WRITTEN INSTRUCTIONS.	N/A
ROOF	EXTERIOR CEILING AND SOFFIT
A.P.A. RATED SHEATHING, EXPOSURE 1, SPAN RATING 24/16 OR BETTER. FASTEN WITH 8d RING SHANK NAILS @ 6" O.C. EDGE AND 6" O.C. FIELD. (WHEN 1/2" ZIP BRAND ROOF SHEATHING IS USED, H-CLIPS ARE NOT REQUIRED) (RING SHANK NAILS PER R803.2.3.1: 0.113" NOMINAL SHANK DIAMETER, RING DIA. OF 0.012" OVER SHANK DIAMETER, 16 TO 20 RINGS PER INCH, 0.280" DIAMETER FULL ROUND HEAD, 2" NAIL LENGTH)	OPTIONS: 1) 1x4 STRIPPING @ 16"OC w/ 2-8d NAILS TO EACH TRUSS, 3/8" EXTERIOR GYPBOARD CEILING, FASTEN w/8d NAILS OR 1 3/8" DRYWALL SCREWS @ 6"OC EDGE & FIELD. 2) 3/8" BC PLYWOOD NAILED w/ 6d COMMON @ 6" OC EDGE & FIELD. 3) VINYL OR ALUMINUM PERFORATED SOFFIT INSTALLED PER MANUFACTURER INSTRUCTIONS TO MEET WIND PRESSURES PER R703.1.2.1.

2 **NOTE: EXTERIOR CEILINGS AND SOFFITS 1) AND 2) SPECIFIED HERE MEET THE DESIGN WIND PRESSURES PER R703.1.2.1.**

WINDOW/DOOR/SOFFIT DESIGN WIND PRESSURES			
WIND PRESSURES PER ASCE7-10, 160 MPH, EXPOSURE C, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. (V _{std} =124 MPH, RISK CAT II, ENCLOSED, K _d =0.85, I _m =15)			
TYPE	INTERIOR ZONE 4	END ZONE 5	
SOFFIT	+33.5 -36.3	+33.5	-44.8
TYPICAL WINDOWS & DOORS	+33.5 -36.3	+29.4	-33.3
8" OR 9" GARAGE DOORS		+28.2	-31.5
16" OR 18" GARAGE DOORS			

(SEE PLAN FOR OTHER SPECIFIC PRESSURES)

1) TABLE MAY BE USED FOR ANY SIZE WINDOW OR DOOR IN EACH TYPE.
2) USE "INTERIOR ZONE 4" PRESSURES UNLESS WINDOW OR DOOR IS LOCATED WITHIN THE "END ZONE 5" (SEE DIAGRAM BELOW), THEN USE THE HIGHER PRESSURES UNDER THE "END ZONE 5" COLUMN.
3) ALL GLASS / GLAZING SHALL BE IMPACT RATED OR USE IMPACT RATED SHUTTERS.
4) SUBMIT PRODUCT APPROVALS TO THE BUILDING DEPARTMENT AS REQUIRED BY THE LOCAL JURISDICTION.
5) MANUFACTURED SOFFIT PRODUCTS SHALL BE INSTALLED PER MFR ENGINEERING SPEC SHEETS.

* ON IRREGULAR SHAPED BUILDINGS, THERE IS NO GUIDANCE IN THE CODE FOR HOW FAR A CORNER MUST PROTRUDE FROM THE MAIN BUILDING TO BE CONSIDERED "ZONE 5". WE HAVE CHOSEN >15'. THIS IS SUBJECT TO JUDGEMENT CALL BY THE AUTHORITY HAVING JURISDICTION.

IN ZONE 5, MANUFACTURED SOFFIT PRODUCTS MAY REQUIRE ADDITIONAL BATTENS OR FASTENING PER MFR ENGINEERING SPEC SHEETS TO MEET THE PRESSURE REQUIREMENTS.

3" COVER

MAINTAIN RUN TO RISE OF 2:1 OR MORE

FOOTING REINF., SEE PLAN. LAP 40 BAR DIAMETERS

CONCRETE FOOTING, SEE PLAN

PLAN VIEW

FOOTING CORNER BARS
SCALE: NTS

DOWEL TO MATCH WALL REINFORCING, LAP 30"

FINISHED GRADE, SEE SITE PLAN

MONOLITHIC FOOTING, SEE PLAN

EMBED DOWELS 5" WITH 10" STD HOOK

3" CLEAR COVER TO REINFORCING

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

3/4" DEEP SAWCUT w/ ELASTOMERIC SEALANT

SLAB ON GRADE, SEE PLAN

NOTES:
1) PROVIDE SAWCUTS TO CREATE APPROXIMATE 20' X 20' MAXIMUM SQUARES.
2) SAWCUT CONCRETE SLAB WITHIN 4 TO 12 HOURS OF CONCRETE PLACEMENT.

SLAB SAWCUT DETAIL
SCALE: NTS

INTERSECTION

CORNER

#5 CORNER BAR, 25"x25"

MASONRY BOND BEAM, TYPICAL

CORNER BAR DETAIL IN BOND BEAMS
SCALE: 3/4" = 1'-0"

8" CMU WALLS

2x4 or 2x6 P.T. BUCK @ 24" O.C. (SEE NOTE)

1/4"x3 3/4" TAPCON @ 24" O.C. 3 SCREWS MIN. (SEE NOTE)

WINDOW/DOOR ROUGH OPENING

8" CMU, SEE PLAN FOR REINFORCING

2x8 OR 2x6 P.T. SYP #2

2x2x1/8" WASHER

1/2" EXPANSION BOLT, 4" MIN. EMBEDMENT, SPACE 24" OC AND 12" FROM TOP & BOT.

DOOR

BUCK FASTENING

GARAGE DOOR

NOTE: THIS BUCK FASTENING DETAIL IS INTENDED FOR FLANGED WINDOW/DOOR PRODUCTS THAT FASTEN THRU THE FLANGE WITH WOOD SCREWS TO THE BUCK. FOR WINDOW/DOOR PRODUCTS THAT DO NOT HAVE A FLANGE AND FASTEN INSTEAD OUTWARD THRU THE FRAME, USE MASONRY SCREWS PER MFR. THAT ARE LONG ENOUGH TO PENETRATE 2-1/4" INTO THE MASONRY. IN THIS CASE, THE BUCK MATERIAL IS SIMPLY A SPACER AND MAY BE 1x4 OR 1x6 OR OMITTED ENTIRELY AND THE SPACER MAY BE TACKED IN PLACE WITH MASONRY NAILS OR PINS.

8"x8" BOND BEAM w/ 1-#5

TRUSS BEARING

7" STANDARD HOOK INTO TOP OF BOND BEAM (MAY USE 7"x25" BENT BAR)

#5 VERT. AT INTERSECTION OF BOND BEAM w/ 7" HOOK AT TOP

MASONRY WALL

#5 VERTICAL IN GROUTED CELL AT DOT LOCATIONS ON PLAN

BOND BEAM REINFORCING DETAIL
SCALE: 3/4" = 1'-0"

2x4 BLOCK AT SHEATHING JOINT

12" MAX. OUTLOOKER

ROOF SHEATHING, SEE SCHEDULE.

2x4 OUTLOOKERS @ 24" O.C.

WHERE 1 HOUR FIRE RATED SOFFITS ARE USED ALONG THE SIDES OF THE HOUSE, DRILL (3) 1 1/2" DIAMETER HOLES IN TOP CHORD OF TRUSS BETWEEN EACH OUTLOOKER (FOR AIR FLOW)

WALL SHEATHING PER SCHEDULE

EMBED HTA16-18 STRAP @ 32" OC AT INSIDE FACE OF GABLE END

MASONRY WALL, SEE PLAN

2x4x8" LATERAL BRACE @ 48" O.C. w/ 2-16d INTO EA. TRUSS

2x4 @ 48"

4-16d

2x4 BLOCK w/ 4-12d TOE NAILS EACH END

4-16d NAILS

2x4 BRACE @ 48" OC

12d @ 4" OC FROM LATERAL BRACE TO BLOCKING

GABLE END BRACING
SCALE: N.T.S.

RETROFIT STRAPS TO CONCRETE/MASONRY			
TRUSS UPLIFT (LBS) @ 24" OC	CONNECTOR		
TO 1145	1-HTWM16 or 20	8-10dx1 1/2"	4-1/4"x2 1/4" CONCRETE SCREW
TO 1145	1-HTWM16 or 20	8-10dx1 1/2"	4-1/4"x2 1/4" CONCRETE SCREW
TO 2290	2-HTWM16 or 20	8-10dx1 1/2"	4-1/4"x2 1/4" CONCRETE SCREW
TO 4520	2-LUGT2	16-16d, 7-1/4"x2 1/4"	CONCRETE SCREW
TO 3610	HTT16	18-10d, 3/8" ALLTHREAD, DRILL & EPOXY 10" EMBED w/ USP SET.	
TO 9790	HGT-2/3	TWO 3/4" ALLTHREAD, DRILL & EPOXY 12" EMBED WITH USP SET.	

NOTES:
1) WHERE EMBEDDED STRAP IS MISSING OR MIS-LOCATED, PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE.
2) CONNECTORS ARE USP. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH USP PRINTED INSTRUCTIONS.
3) CONCRETE SCREW SHALL BE WEDGE-BOLT+, TITEN, TAPCON OR EQUIVALENT.

12

5

ROOF SHEATHING, SEE SCHEDULE 2/S-1

WOOD TRUSSES @ 24" OC, DESIGNED BY DELEGATED TRUSS ENGINEER

EMBEDDED STRAP AT EACH ROOF TRUSS, SEE ROOF PLAN. BREAK OUT WEB OF BLOCK AS NEEDED TO PROPERLY LOCATE EACH STRAP.

TRUSS BEARING

APPROVED ISOLATION PLATE

8"x8" CONTINUOUS MASONRY BOND BEAM w/ 1-#5, GROUT SOLID. PROVIDE CORNER BARS PER DETAIL 6/S-1.

#5 VERT. IN GROUTED CELL AT DOT LOCATIONS ON PLAN (48" OC MAX EXTERIOR)

SOFFITS SHALL MEET WIND DESIGN PRESSURES (+33.5 -36.3) PER R703.1.2.1. FOR FIELD FRAMING, SEE TABLE 2/S-1.

#5 VERTICAL SHALL HAVE 7" STANDARD HOOK INTO TOP OF BOND BEAM

TRUSS STRAP TO BOND BEAM
SCALE: 3/4" = 1'-0"

2x4 BLOCK AT SHEATHING JOINT

12" MAX. OUTLOOKER

ROOF SHEATHING, SEE SCHEDULE.

2x4 OUTLOOKERS @ 24" O.C.

WHERE 1 HOUR FIRE RATED SOFFITS ARE USED ALONG THE SIDES OF THE HOUSE, DRILL (3) 1 1/2" DIAMETER HOLES IN TOP CHORD OF TRUSS BETWEEN EACH OUTLOOKER (FOR AIR FLOW)

WALL SHEATHING PER SCHEDULE

EMBED HTA16-18 STRAP @ 32" OC AT INSIDE FACE OF GABLE END

MASONRY WALL, SEE PLAN

2x4x8" LATERAL BRACE @ 48" O.C. w/ 2-16d INTO EA. TRUSS

2x4 @ 48"

4-16d

2x4 BLOCK w/ 4-12d TOE NAILS EACH END

4-16d NAILS

2x4 BRACE @ 48" OC

12d @ 4" OC FROM LATERAL BRACE TO BLOCKING

GABLE END BRACING
SCALE: N.T.S.

DESIGN CRITERIA:

DESIGN IN ACCORDANCE WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 6th EDITION (2017) RESIDENTIAL

1. FLOOR & ROOF UNIFORM LOADS:
ELEVATED FLOORS: LIVE LOAD 40 PSF, DEAD LOAD 20 PSF
ROOF: LIVE TOP CHORD 20 PSF
LIVE BOTTOM CHORD 10 PSF (NON-CONCURRENT w/ T.C.L.)
CEMENT ROOF TILE DEAD LOAD 25 PSF TOTAL
SHINGLE/METAL ROOFING DEAD LOAD 15 PSF TOTAL
MINIMUM DEAD LOAD FOR WIND: TC 5 PSF, BC 5 PSF

DEFLECTION CRITERIA:
FLOOR L/480 LIVE, L/360 TOTAL
ROOF L/240 LIVE, L/180 TOTAL

2. WIND LOADS:
WIND DESIGN PER ASCE7-10
BASIC WIND SPEED (ASCE7-10) 160 MPH
NOMINAL WIND SPEED (V_{std} TABLE R301.2.1.3) 124 MPH
BUILDING CATEGORY II
IMPORTANCE FACTOR 1.00
EXPOSURE C
MEAN ROOF HEIGHT = 15 FT
ROOF PITCH 5/12
ENCLOSURE CLASS ENCLOSED
INTERNAL PRES. COEFF. +/- 0.18
WINDOW/DOOR DESIGN WIND PRESSURE, SEE TABLE IN DETAIL 3.
SOFFITS - PER R703.1.2.1, ALL SOFFITS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES SPECIFIED IN TABLE R301.2(2) FOR WALLS.

3. REINFORCED CONCRETE:
DESIGN AS PER ACI 318-14
REQUIRED COMPRESSIVE STRENGTH AT 28 DAYS:
SLAB ON GRADE f'_c = 2500 PSI
3 1/2" MINIMUM THICKNESS REINFORCED WITH 6x6 w1.4xw1.4 WWF OR FIBERMESH.
CONVENTIONAL SHALLOW FOOTINGS f'_c = 2500 PSI
BEAMS AND COLUMNS f'_c = 3000 PSI
ALL OTHER CONCRETE (U.N.D.) f'_c = 3000 PSI
UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
FOOTINGS 3" CENTERED
SLAB ON GRADE 1 1/2"
BEAMS 1 1/2"
COLUMNS 1 1/2"
ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAMS AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.
REINFORCING STEEL - ASTM A615 GRADE 40 FOR #3
GRADE 60 FOR #4 TO #11

WELDED WIRE FABRIC - ASTM A185

SPICES IN REINFORCING, SHALL BE 40 BAR DIAMETERS, NON-CONTACT LAP SPICES MAY BE USED PROVIDED REINFORCING IS NOT SPACED MORE THAN 5" APART FOR #5 BARS.

FORMWORK AND SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS REACHED AT LEAST 2/3 OF THE REQUIRED 28 DAY STRENGTH.

4. REINFORCED MASONRY:
DESIGN PER ACI 530-13
REQUIRED COMPRESSIVE STRENGTHS:
MASONRY WALLS f'_m = 1500 PSI

REINFORCING STEEL - ASTM A615 GRADE 60.
SPICES IN REINFORCING, SHALL BE 48 BAR DIAMETERS.
ALL CONCRETE MASONRY UNITS SHALL BE COMPOSED OF ASTM C90, GRADE N-1 HOLLOW CONCRETE MASONRY UNITS WITH TYPE "S" MORTAR. GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT WITH 3000 PSI PEA ROCK CONCRETE GROUT. ALL CELLS BELOW FINISHED GRADE SHALL BE GROUTED SOLID. ALL EXTERIOR WALLS SHALL BE REINFORCED FULL HEIGHT AT DOT LOCATIONS ON PLAN. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN WALLS AT 16" OC VERTICALLY, UNLESS NOTED OTHERWISE. IN ADDITION, INSTALL JOINT REINFORCING IN THE FIRST TWO MORTAR JOINTS ABOVE AND BELOW OPENINGS, EXTENDING AT LEAST 24" BEYOND THE OPENING. LAP JOINT REINFORCING 6" MINIMUM.

5. DELEGATED-ENGINEERED WOOD ROOF & FLOOR TRUSSES:
ALL WOOD ROOF AND FLOOR TRUSSES SHALL BE DESIGNED BY A DELEGATED TRUSS ENGINEER PER RULE 61G15-31.003 OF THE FLORIDA ADMINISTRATIVE CODE. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HB-91." FOR OTHER BRACING REQUIREMENTS, NOTIFY ENGINEER. PROVIDE PERMANENT BRACING PER TRUSS MFR. SHOP DRAWINGS. IF PERMANENT BRACING IS NOT SPECIFIED, CONTACT ENGINEER.

6. FOUNDATION:
SOIL BEARING CAPACITY 2000 PSF
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL CONDITIONS FOR THE INTENDED STRUCTURE AND ASSUMED SOIL BEARING CAPACITY. IT IS RECOMMENDED THAT A GEOTECHNICAL FIRM BE HIRED TO PERFORM A SITE EVALUATION.

7. DIMENSIONS: VERIFY ALL DIMENSIONS WITH HOUSE PLANS. SEE HOUSE PLANS, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

8. MEANS AND METHODS: THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO SUPPORT STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

9. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER FOR REVIEW FOR ALL STRUCTURAL ELEMENTS UTILIZING PREFABRICATED COMPONENTS. ONE SET OF SIGNED & SEALED TRUSS ENGINEERING SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THE STRUCTURE PER FLORIDA ADMINISTRATIVE CODE 61G15-30.005 AND 61G15-31.003.

REVISIONS	BY

STRUCTURAL ENGINEERING:

STRUCTURAL SYSTEMS OF NORTH FLORIDA

1634 S.E. 47th STREET, SUITE #2
CAPE CORAL, FL 33904
(239) 549-4554
CA# 8629

DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 6th EDITION (2017) RESIDENTIAL

BUILDER:

Expres Homes

STRUCTURAL DETAILS FOR

1519 SIGNATURE VILLA

10873, 10877 MARBLE BROOK BOULEVARD
LEHIGH ACRES, FLORIDA
LOTS: 21B, 219 SUBDIVISION: THE GROVE

DESIGN/DRAWN
DWB/DWB

CHECKED
DWB

DATE
01/09/18

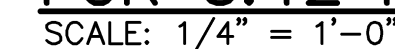
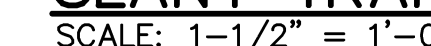
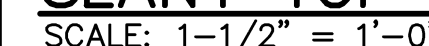
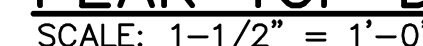
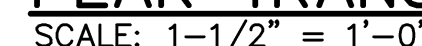
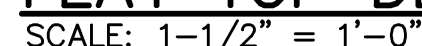
SCALE
AS NOTED

JOB NO.
DR10083

SHEET

S-1

SHEET 1 OF 3



S-2

SHEET 2 OF 3

REVISIONS	BY
Δ 03/29/18	DWB

STRUCTURAL ENGINEERING:

STRUCTURAL SYSTEMS OF NORTH FLORIDA

1634 S.E. 47th STREET, SUITE #3

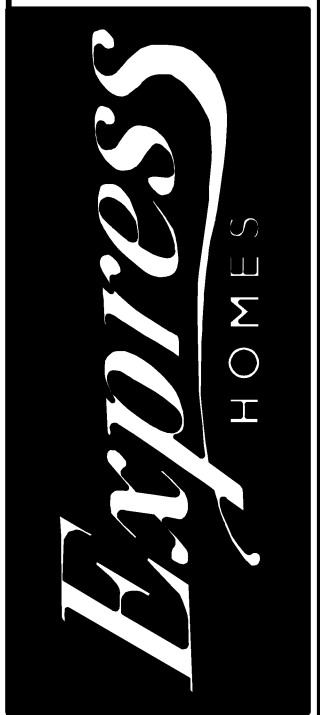
CAPE CORAL, FL 33904

(239) 549-4554

CA # 8829

DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 6th EDITION (2017) RESIDENTIAL

BUILDER:



STRUCTURAL DETAILS FOR

1519 SIGNATURE VILLA

10873, 10877 MARBLE BROOK BOULEVARD

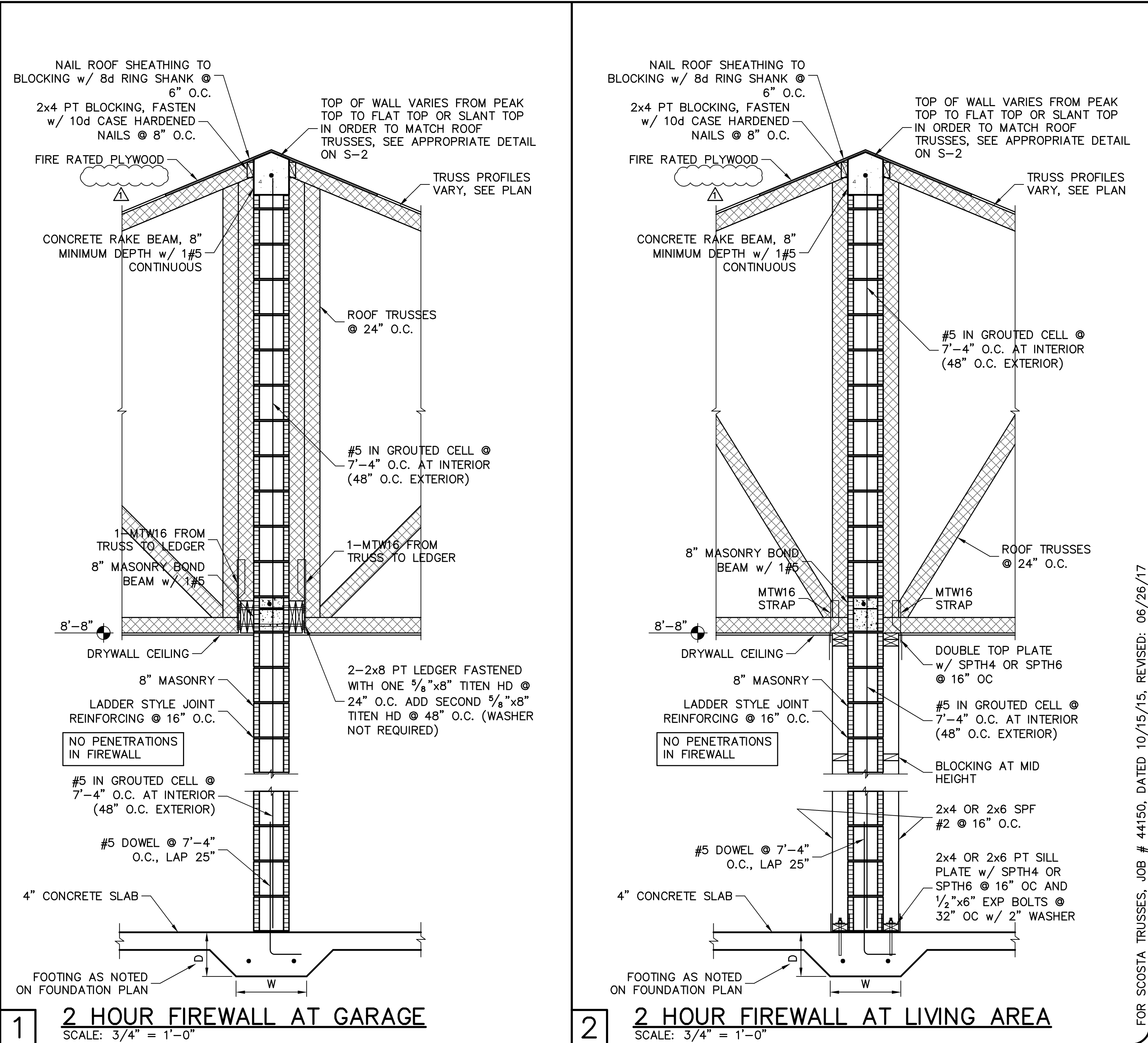
LEHIGH ACRES, FLORIDA

LOTS: 218, 219 SUBDIVISION: THE GROVE

DESIGN/DRAWN DWB/DWB
CHECKED DWB
DATE 01/09/18
SCALE AS NOTED
JOB NO. DR10083
SHEET

S-3

SHEET 3 OF 3



FOR SCOSTA TRUSSES, JOB # 44150, DATED 10/15/15, REVISED: 06/26/17