

NOTE:
 BUILDER TO CONSULT
 W/ GEO-TECH ENGINEER BEFORE
 BEGINNING CONSTRUCTION ON
 FOOTINGS THAT ARE IN CLOSE
 PROXIMITY TO POOL AREA.
 IT IS THE GEO-TECH ENGINEERS
 RESPONSIBILITY TO VERIFY FOUNDATION
 DESIGN IN ALL AREAS NEAR POOL.

CHAPTER 18: SOILS AND FOUNDATIONS
1803 EXCAVATION, GRADING AND FILL
 1803.1.3 Excavations near footings or foundations.
 Excavations for any purpose shall not extend within 1 ft (305 mm) of the
 angle of repose or natural slope of the soil under any footing or foundation,
 unless such footing or foundation is first properly underpinned or protected
 against settlement.
1805 FOOTINGS AND FOUNDATIONS
 1805.3 Footings on or adjacent to slopes.
 1805.3.3 Pools. The setback between pools regulated by this code and slopes
 shall be equal to one-half the building footing setback distance required by
 this section. That portion of the pool wall within a horizontal distance of 7
 feet (2134 mm) from the top of the slope shall be capable of supporting the
 water in the pool without soil support.

**DIMENSIONS ON FOUNDATION & STRUCTURAL SHEETS
 ARE NOT EXACT. REFER TO ARCHITECTURAL PLANS
 FOR ACTUAL DIMENSIONS, RECESSES IN SLAB,
 STEP DOWNS, ETC. DISOSWAY DESIGN GROUP OR
 MARK DISOSWAY, PE IS NOT RESPONSIBLE FOR
 DIMENSION ERRORS ON THIS PLAN.**

FOUNDATION NOTES	
FN - 1	DIMENSIONS ON FOUNDATION & STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP DOWNS, ETC. DISOSWAY DESIGN GROUP OR MARK DISOSWAY, PE IS NOT RESPONSIBLE FOR DIMENSION ERRORS ON THIS PLAN.
FN - 2	CONTRACTOR SHALL VERIFY NEED FOR INTERIOR BEARING IN ALL AREAS BY REVIEWING THE ROOF TRUSS PLAN (BY THE SUPPLIER) BEFORE FINALIZING FOUNDATION PLAN
FN - 3	THE SLAB SHALL BE: 4" CONCRETE SLAB REINFORCED W/ 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS @ 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER W/ 6" LAPS SEALED W/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL

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

Maurice & Cassandra Spates Res.

PROJECT ADDRESS:
 401 Nuegel Rd, Lake City, FL 32055

FL PE 53915
 This item has been digitally signed and sealed by Mark Disosway, P.E. or digital signature date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DIMENSIONS:
 Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

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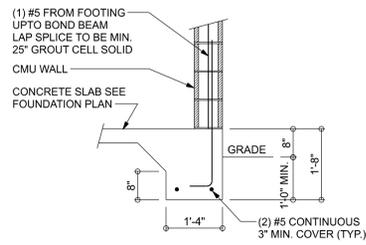
CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 8th Edition Florida Building Code Residential (2023) to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

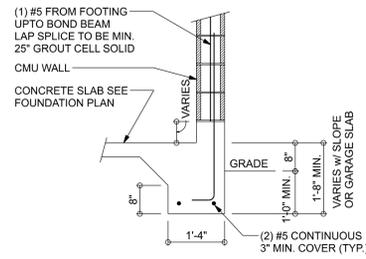
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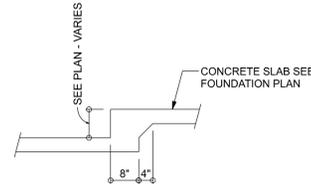
S-2
 OF 4 SHEETS



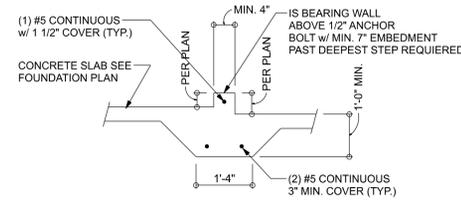
F1 MONOLITHIC FOOTING
SCALE: 1/2" = 1'-0"



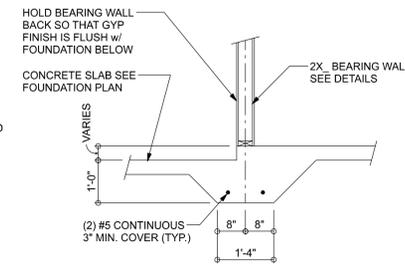
F2 GARAGE CURB FOOTING
SCALE: 1/2" = 1'-0"



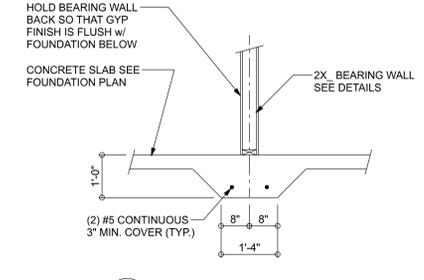
F3 NON-BEARING STEP DOWN
SCALE: 1/2" = 1'-0"



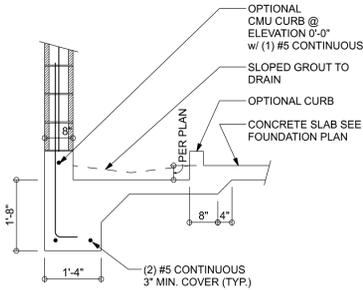
F4 DOUBLE STEP FOOTING
SCALE: 1/2" = 1'-0"



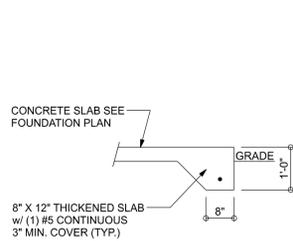
F5 STEP FOOTING BEARING
SCALE: 1/2" = 1'-0"



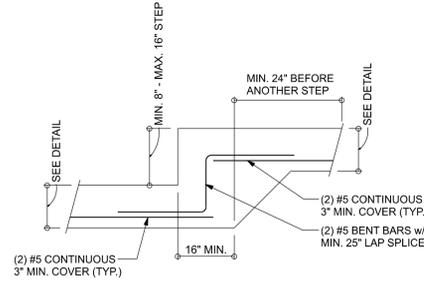
F6 INTERIOR BEARING FOOTING
SCALE: 1/2" = 1'-0"



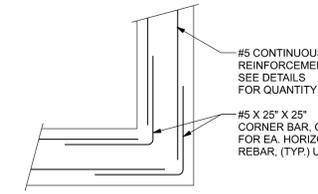
F7 FOOTING @ SHOWER @ MASONRY
SCALE: 1/2" = 1'-0"



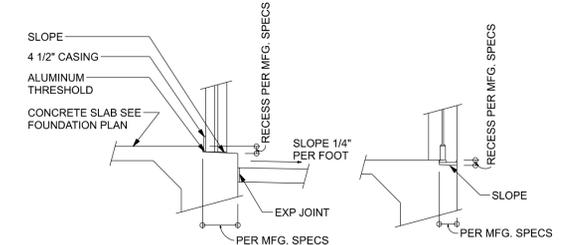
F8 THICKEND EDGE
SCALE: 1/2" = 1'-0"



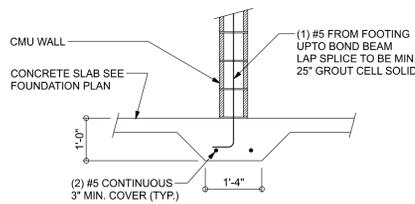
F9 (TYP.) STEP FOOTING DETAIL
SCALE: 1/2" = 1'-0"



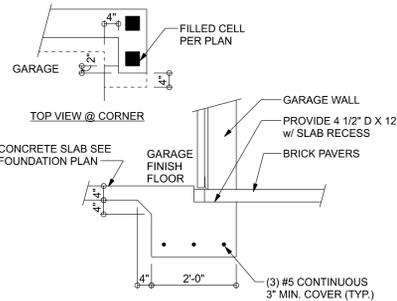
F10 (TYP.) CORNER BAR DETAIL
SCALE: 1/2" = 1'-0"



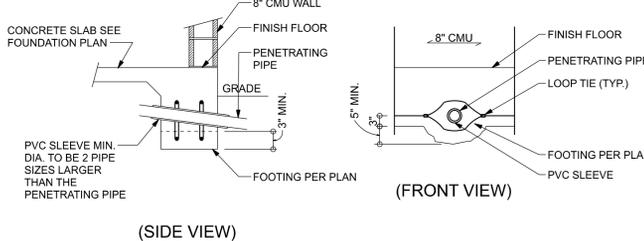
F11 EXTERIOR DOOR POURED SILLS
SCALE: 1/2" = 1'-0"



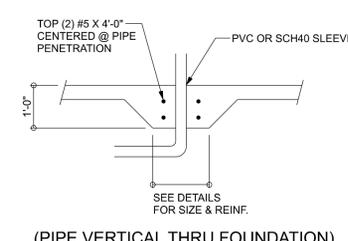
F12 INTERIOR BEARING FOOTING w/ CMU WALL
SCALE: 1/2" = 1'-0"



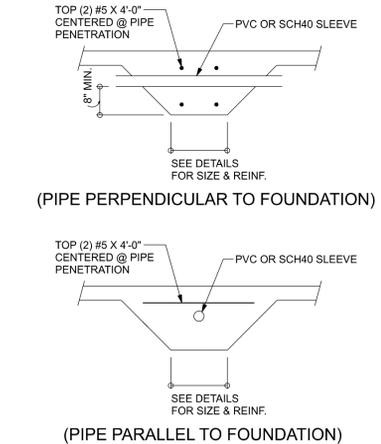
F13 THICKEND EDGE @ GARAGE DOOR
SCALE: 1/2" = 1'-0"



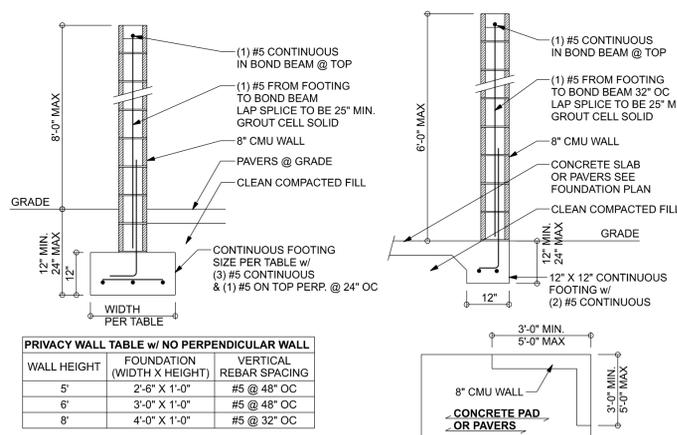
F14 TYPICAL FOUNDATION PENETRATIONS
SCALE: 1/2" = 1'-0"



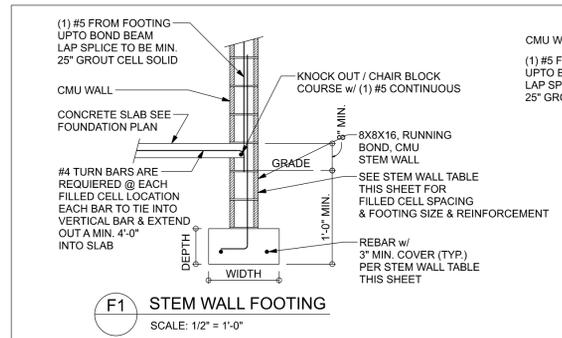
F15 STEM WALL FOOTING @ PORCH
SCALE: 1/2" = 1'-0"



F16 STEM WALL @ GARAGE STEP DOWN
SCALE: 1/2" = 1'-0"

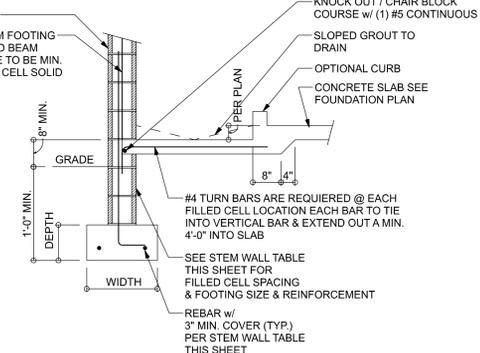


F17 PRIVACY WALL FOUNDATION DETAILS
SCALE: 1/2" = 1'-0"

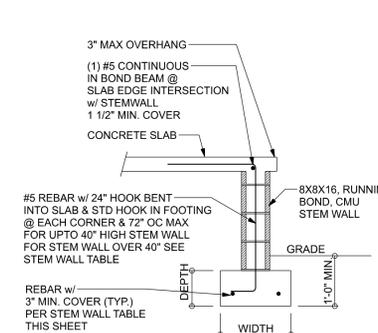


F1 STEM WALL FOOTING
SCALE: 1/2" = 1'-0"

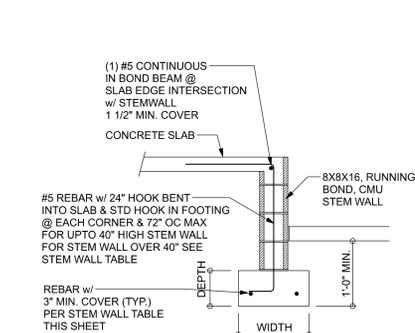
STEM WALL HEIGHT	FOOTING DIMENSION				NUMBER / SIZE OF REBAR IN FOOTING	MAX FILLED CELL SPACING (O.C.) IN STEM WALL
	1-STORY		2-STORY			
	DEPTH	WIDTH	DEPTH	WIDTH		
8" - 40"			10"	20"	(2) #5 REBARS FOR 1-STORY OR (3) #5 REBARS FOR 2-STORY	MATCH FILLED CELL SPACING PER PLAN
48" - 64"	10"	20"	10"	20"	(2) #5 REBARS FOR 1-STORY OR (3) #5 REBARS FOR 2-STORY	40"
72" - 80"	10"	30"	10"	30"	(3) #5 REBARS FOR 1-STORY & 2-STORY	32"



F7 FOOTING @ SHOWER @ MASONRY
SCALE: 1/2" = 1'-0"



F15 STEM WALL FOOTING @ PORCH
SCALE: 1/2" = 1'-0"

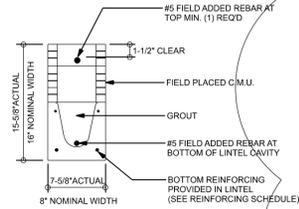
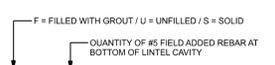


F16 STEM WALL @ GARAGE STEP DOWN
SCALE: 1/2" = 1'-0"

OPTIONAL STEM WALL FOUNDATION

NOTE: ALL STEM WALL FOUNDATIONS OVER 3'-0" IN HEIGHT TO BE POURED SOLID

TYPE DESIGNATION



MATERIALS

1. Fc 8" precast lintel = 3500 psi
2. Fc prestressed lintel = 9000 psi
3. Grout per ASTM C476 Fc = 3000 psi w/ maximum 3/8 inch aggregate & 8 to 11 inch slump
4. Concrete Masonry Units (CMU) per ASTM C90 minimum net area compressive strength = 1900 psi
5. Rebar per ASTM A615 grade 60
6. Prestressing strand per ASTM A416 grade 270 low relaxation
7. Mortar per ASTM C270 type M or S

GENERAL NOTES

1. Provide full mortar bed and head joints.
2. Shore filled lintels as required.
3. Installation of lintel must comply with the architectural and/or structural documents.
4. U-Intels are manufactured with 5 1/2" long notches at the ends to accommodate vertical cell reinforcing and grouting.
5. All lintels meet or exceed L/360 deflection, except lintels 17'-4" and longer with a nominal height of 8' meet or exceed L/180 deflection.
6. Bottom field added rebar to be located at the bottom of the lintel cavity.
7. 7/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
8. Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.
9. Safe load rating based on rational design analysis per ACI 318 and ACI 530
10. Product Approvals: Miami-Dade County, Florida No. 03-0606 05
11. The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C-296 or other approved coating.
12. Lintels loaded simultaneously with vertical (gravity or uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation:
Applied vertical load + Applied horizontal load ≤ 1.0 Safe vertical load
13. Additional lateral load capacity can be obtained by the designer by providing additional reinforced concrete masonry above the lintel. See detail at right:

SAFE LOAD TABLE NOTES

1. All values based on minimum 4 inch nominal bearing.
- Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 6 1/2 inches.
2. N.R. = Not Rated
3. Safe loads are superimposed allowable loads.
4. Safe loads based on grade 40 or grade 60 field rebar.
5. One #7 rebar may be substituted for two #5 rebars in 8" lintels only
6. The designer may evaluate concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at d-away from face of support.
7. For composite lintel heights not shown, use safe load from lower height shown.
8. For lintel lengths not shown, use safe load from next longest length shown
9. All safe loads in units of pounds per linear foot
10. All safe loads based on simply supported span.
11. The number in the parenthesis indicates the percent reduction for grade 40 field added rebar.
Example 7'-6" lintel type 8F32-1B safe gravity load = 6472(0.0469); (15)H0.0781; w/ 15% reduction 6472 * .85 = 5501 plf

SAFE GRAVITY LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT							
		8F8-0B	8F12-0B	8F16-0B	8F20-0B	8F24-0B	8F28-0B	8F32-0B	8F36-0B
2'-10" (34")	PRECAST	2231	3069	4605	6113	7547	8974	10394	11809
3'-6" (42")	PRECAST	2231	3069	4605	6113	7547	8974	10394	11809
4'-0" (48")	PRECAST	1966	2653	4055	5457	6859	8261	9663	11065
4'-8" (54")	PRECAST	1599	1969	2110	2931	3753	4576	5400	6224
5'-4" (64")	PRECAST	1217	1349	1438	1999	2560	3123	3686	4249
5'-10" (70")	PRECAST	1062	1105	1173	1631	2090	2549	3009	3470
6'-6" (78")	PRECAST	908	1238	2177	3480	5381	8300	10394(3)	8225(14)
7'-8" (90")	PRECAST	743	1011	1729	2632	3535	4438	5341	6244
9'-4" (112")	PRECAST	554	699	1160	1625	2090	2554	3019	3484
11'-4" (138")	PRECAST	362	582	945	1366	1846	2423	3127	4006
12'-0" (144")	PRECAST	337	540	873	1254	1684	2163	2895	3552
13'-4" (160")	PRECAST	296	471	755	1075	1428	1838	2316	2883
14'-0" (168")	PRECAST	279	424	706	1002	1326	1697	2127	2630
14'-8" (176")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
15'-4" (184")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
17'-4" (208")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
19'-4" (232")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
21'-4" (256")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
22'-0" (264")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
24'-0" (288")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR

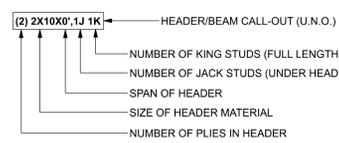
SAFE GRAVITY LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT							
		8RF6-0B	8RF10-0B	8RF14-0B	8RF18-0B	8RF22-0B	8RF26-0B	8RF30-0B	8RF34-0B
4'-4" (52")	PRECAST	1635	1749	3355	3280	4349	5421	6493	7567
4'-6" (54")	PRECAST	1494	1691	3069	3206	4030	4960	5924	6903
5'-8" (68")	PRECAST	866	920	1770	1716	2277	2839	3402	3966
5'-10" (70")	PRECAST	810	859	1653	1600	2124	2649	3174	3700
6'-8" (80")	PRECAST	797	1113	2242	4242	6639(14)	8950(14)	7402(14)	8706(14)
7'-6" (90")	PRECAST	669	901	1825	3120	5048	7747	9449	7360
9'-8" (116")	PRECAST	411	526	999	1568	2253	3129	4091	3146

STRUCTURAL PLAN NOTES

- SN-1 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS
- PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCS1-03, BCS1-B1, BCS1-B2 & BCS1-B3. BCS1-B1, BCS1-B2 & BCS1-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

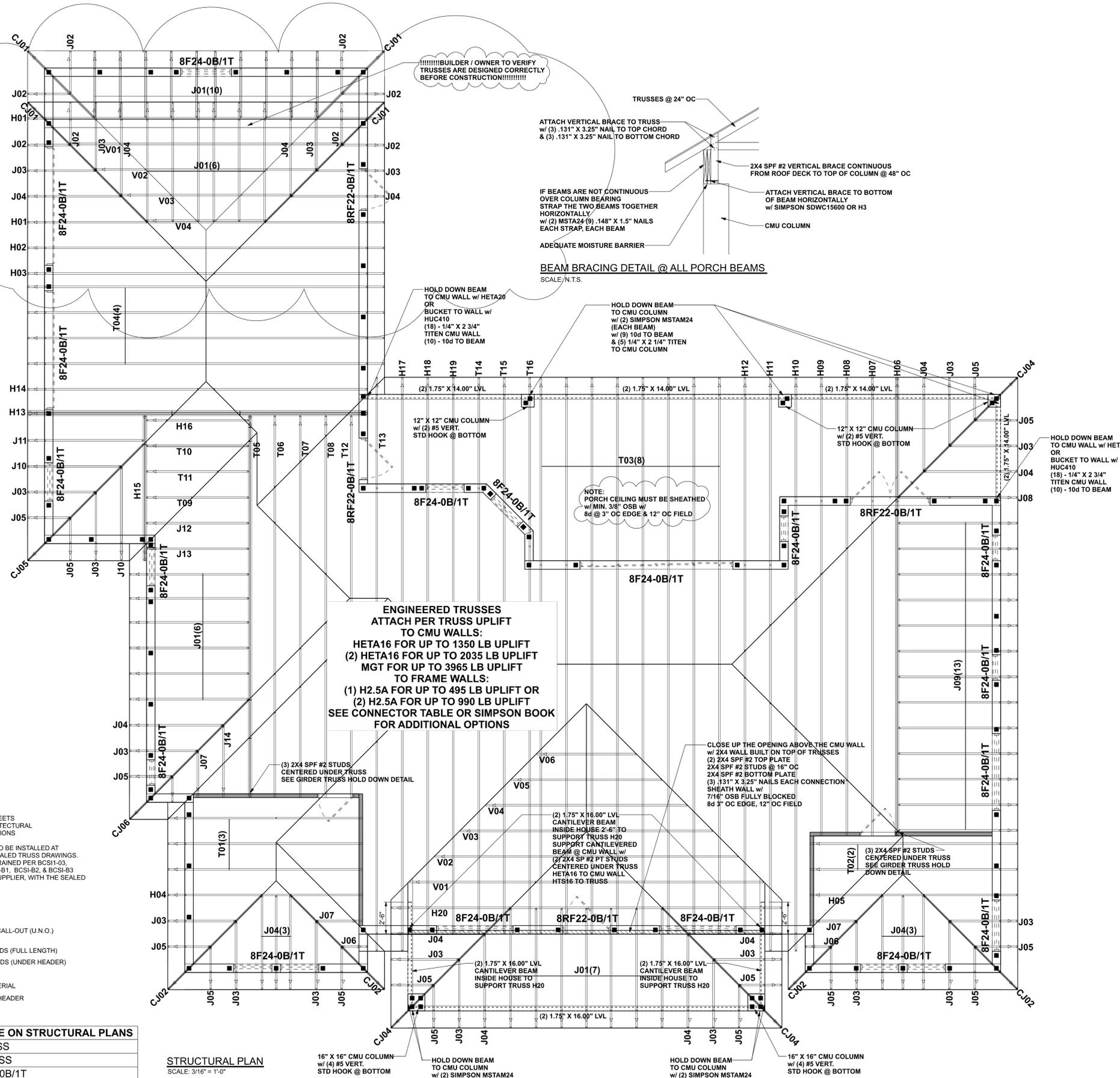
FRAME HEADER LEGEND



UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS

1. USE HETA16 CMU TO TRUSS
2. USE H2.5A FRAME TO TRUSS
3. ALL LENTELS TO BE: 8F24-0B/1T
4. ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X10 SP #2
5. ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE

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



Maurice & Cassandra Spates Res.
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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 8th Edition Florida Building Code Residential (2023), to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

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JOB NUMBER:
240762

S-3
OF 4 SHEETS

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER. COASTAL TRUSS & VINYL SIDING JOB #240609-011K