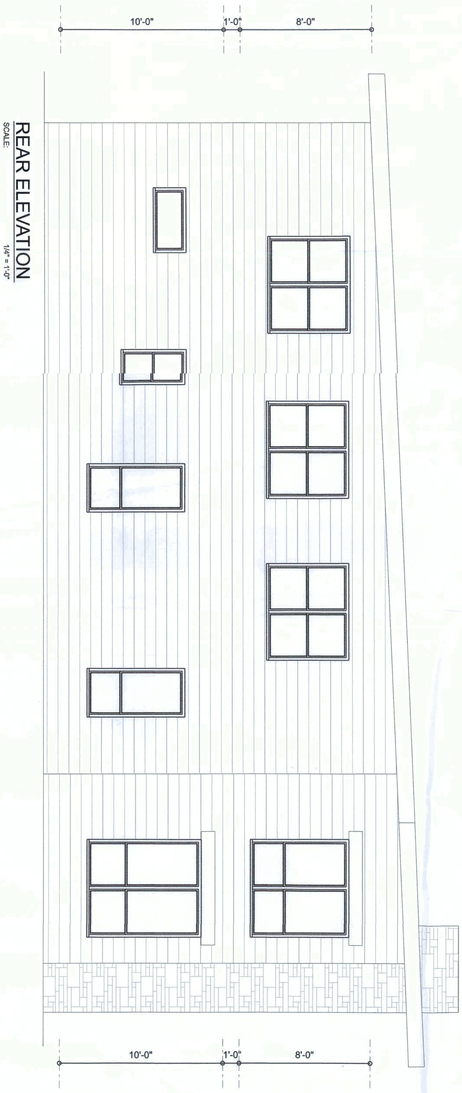
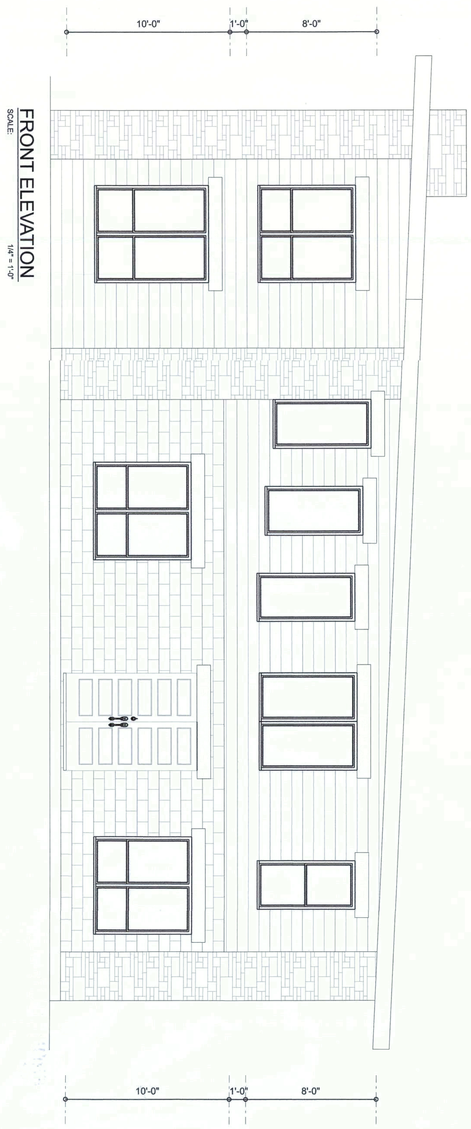


REAR ELEVATION
SCALE: 1/4" = 1'-0"



FRONT ELEVATION
SCALE: 1/4" = 1'-0"

COLUMBIA COUNTY BUILDING DEPARTMENT
PLANS EXAMINER
FILE COPY
Reviewed for Code Compliance
Date

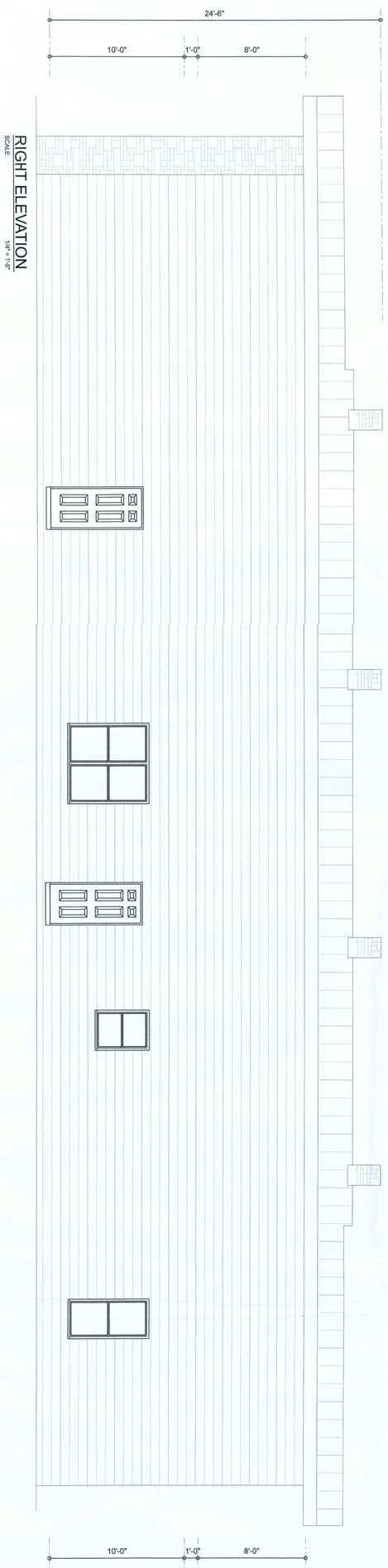
RIDGEPOINT DESIGN, INC
496 SW RING CT. LAKE CITY, FLORIDA 32025
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

THE RICHARDS RESIDENCE

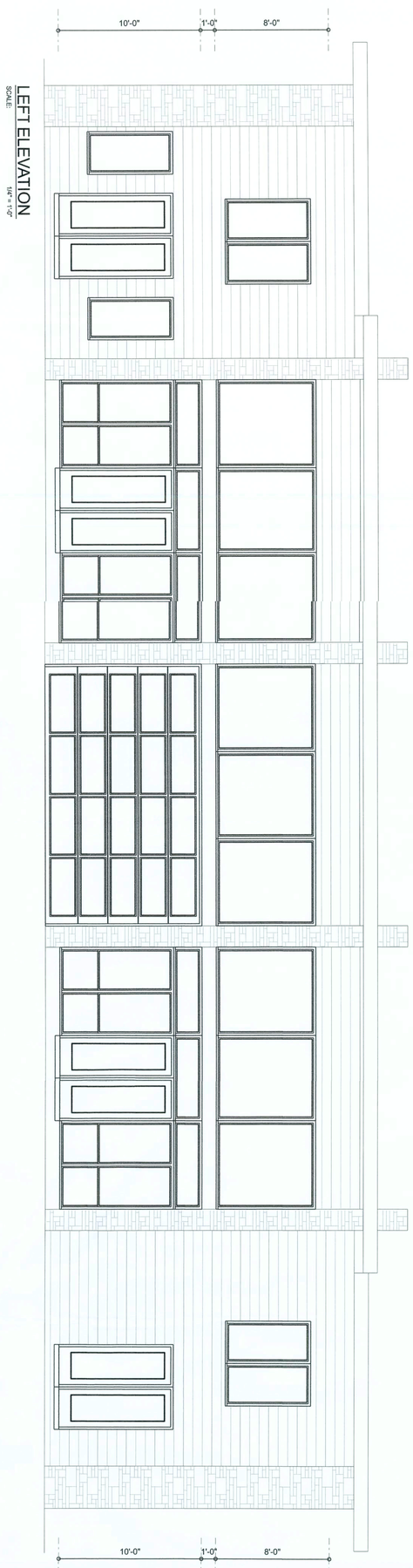
LAKE CITY, FL 32024

REVISIONS SCHEDULE	
DEC. 7th, 2017	PROPOSAL

SHEET NUMBER
A.1
OF 5 SHEETS



RIGHT ELEVATION
SCALE
1/4" = 1'-0"



LEFT ELEVATION
SCALE
1/4" = 1'-0"

SHEET NUMBER
A.2
OF 5 SHEETS

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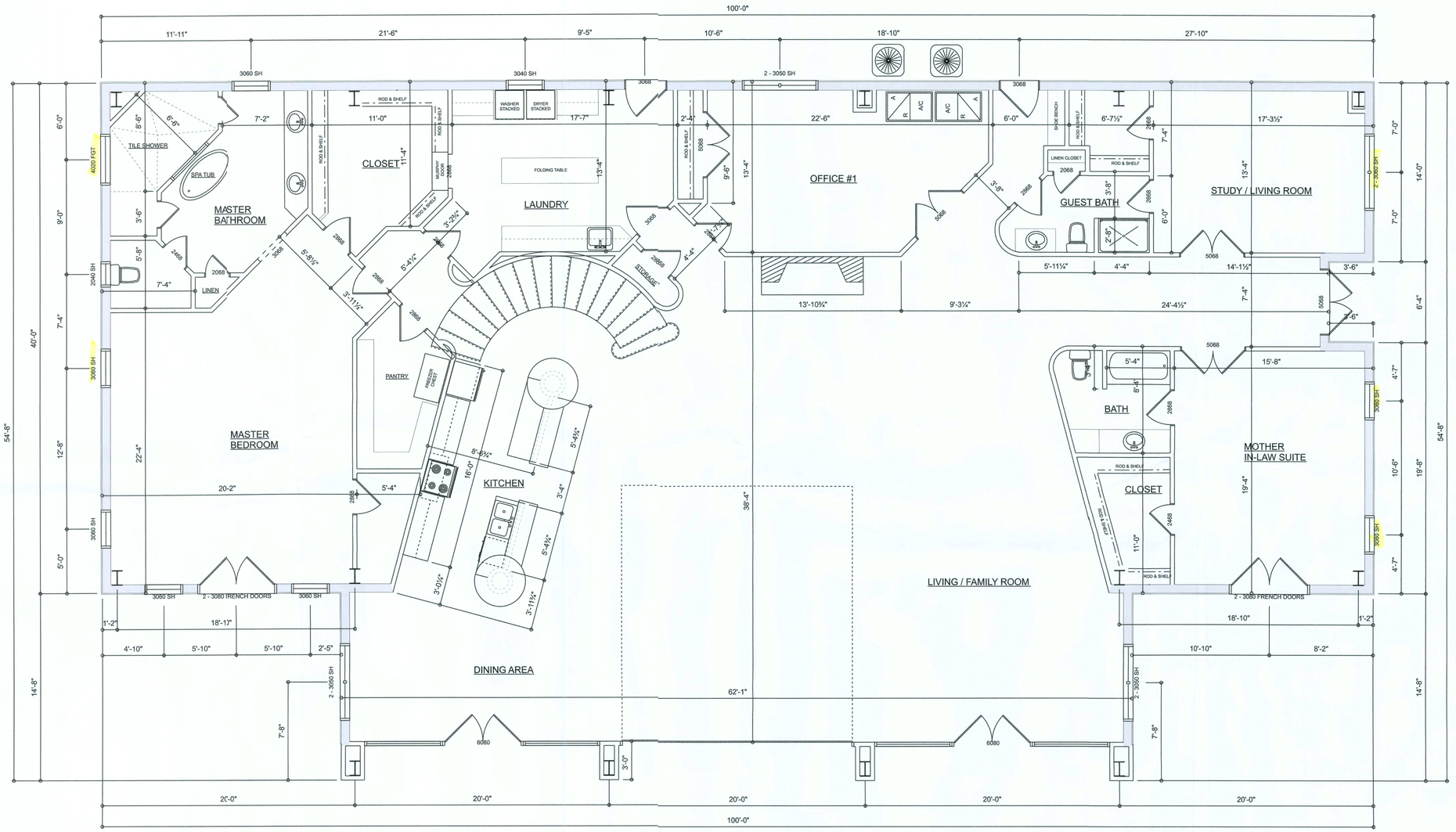
LAKE CITY, FL 32024

REVISIONS SCHEDULE	
DEC. 7th, 2017	PROPOSAL



DIMENSIONED FIRST FLOOR PLAN

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

AREA SUMMARY

FIRST FLOOR AREA	4,722	S.F.
SECOND FLOOR AREA	3,133	S.F.
GRAND TOTAL	7,855	S.F.

REVISIONS SCHEDULE

DEC. 7th, 2017	PROPOSAL

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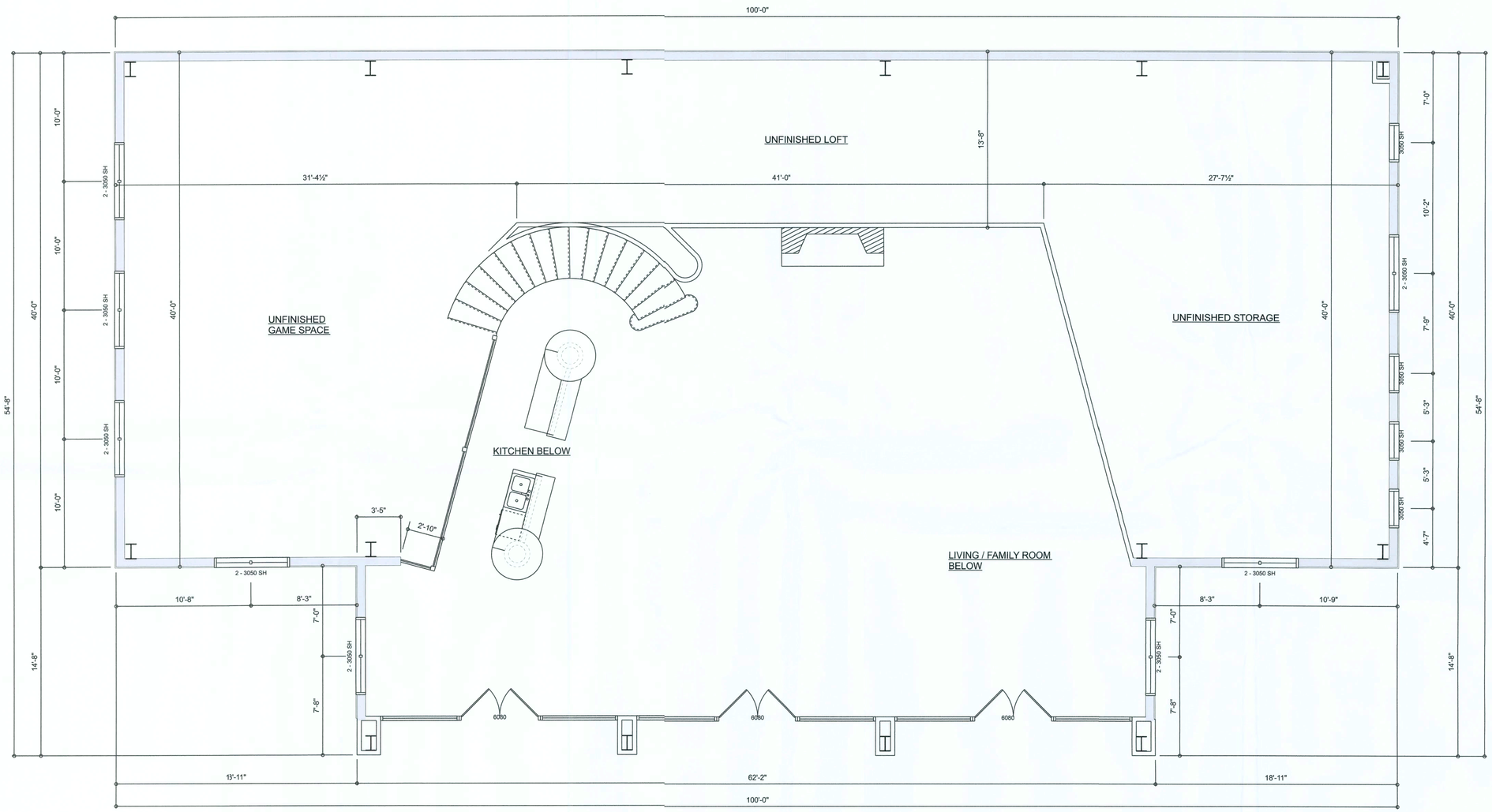
SHEET NUMBER

A.3

OF 5 SHEETS



DIMENSIONED SECOND FLOOR PLAN

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

REVISIONS SCHEDULE

DEC. 7th, 2017	PROPOSAL

THE RICHARDS RESIDENCE

LAKE CITY, FL 32024

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SHEET NUMBER

OF 5 SHEETS

ELECTRICAL LEGEND

ELECTRICAL	COUNT	SYMBOL
ceiling fan 4 bladed 01	6	
ceiling light 17	2	
pendant large	6	
pot light	60	
exterior light 01	12	
spotlight double	4	
electrical meter	1	
electrical panel	2	
cable tv outlet	7	
fan	3	
light	3	
outlet	60	
outlet 220v	5	
outlet gfi	16	
outlet wp	6	
smoke detector	6	
switch	35	
switch 3 way	23	
vanity bar light 02	4	

ELECTRICAL PLAN NOTES:

INSTALLATION SHALL BE PER 2011 NAT'L ELECTRIC CODE.

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS

CONSULT WITH THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED

ALL SMOKE DETECTORS SHALL BE 120v W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS

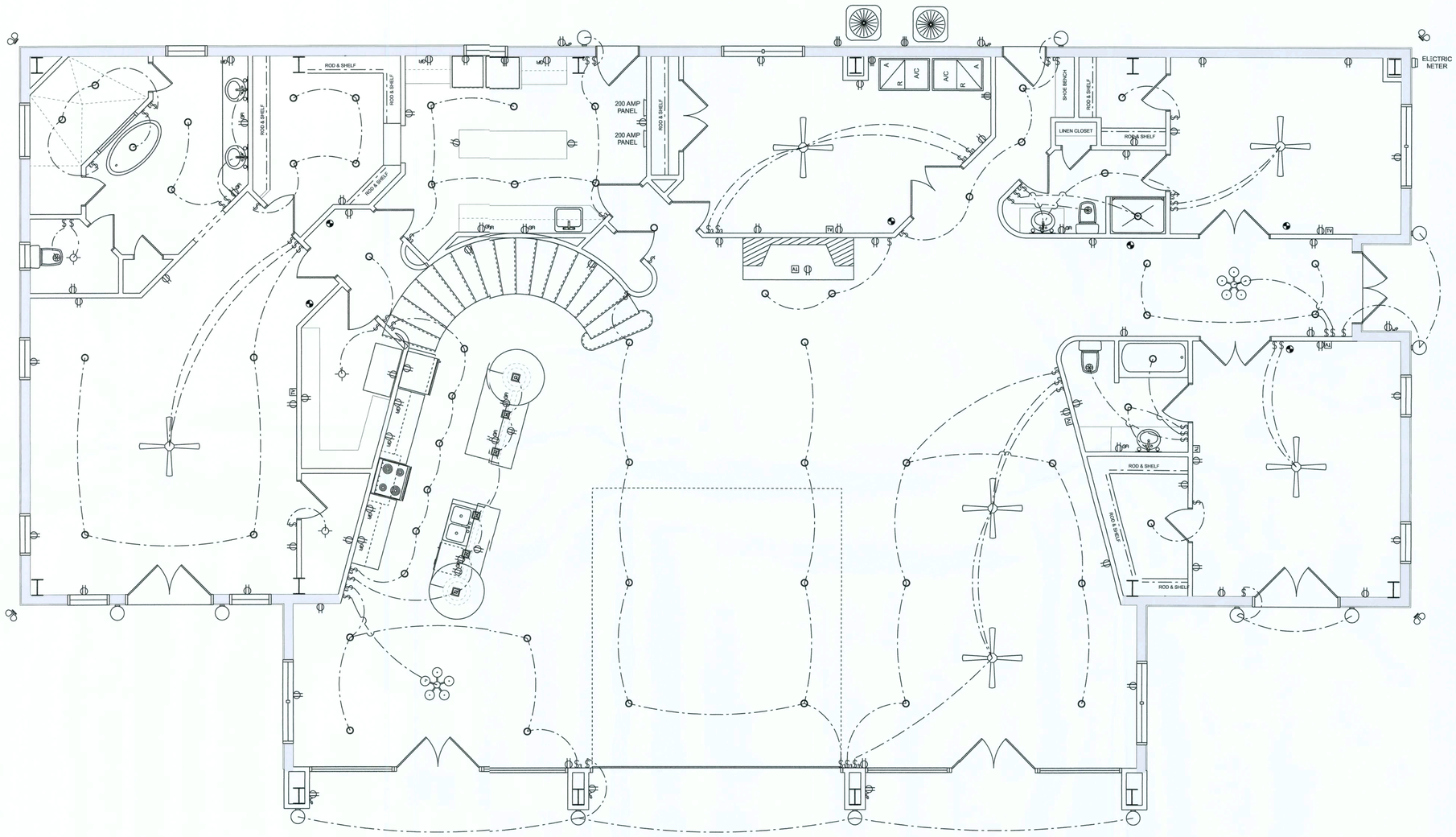
TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ALL RECEPTICALS, NOT OTHERWISE NOTED, SHALL BE ARC FAULT INTERRUPTER TYPE, EXCEPT DEDICATED OUTLETS

ALL RECEPTICALS IN WET AREAS SHALL BE GROUND FAULT INTERRUPTER TYPE (GFI)

ALL EXTERIOR RECEPTICALS SHALL BE WEATHERPROOF GROUD FAULT INTERRUPTER TYPE (WP/GFI)

NOTE:
ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr, DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING / DEPTH, RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY



FIRST FLOOR ELECTRICAL
SCALE: 1/4" = 1'-0"

REVISIONS SCHEDULE

DEC. 7th, 2017	PROPOSAL

THE RICHARDS RESIDENCE
LAKE CITY, FL 32024

RIDGEPOINT DESIGN, INC
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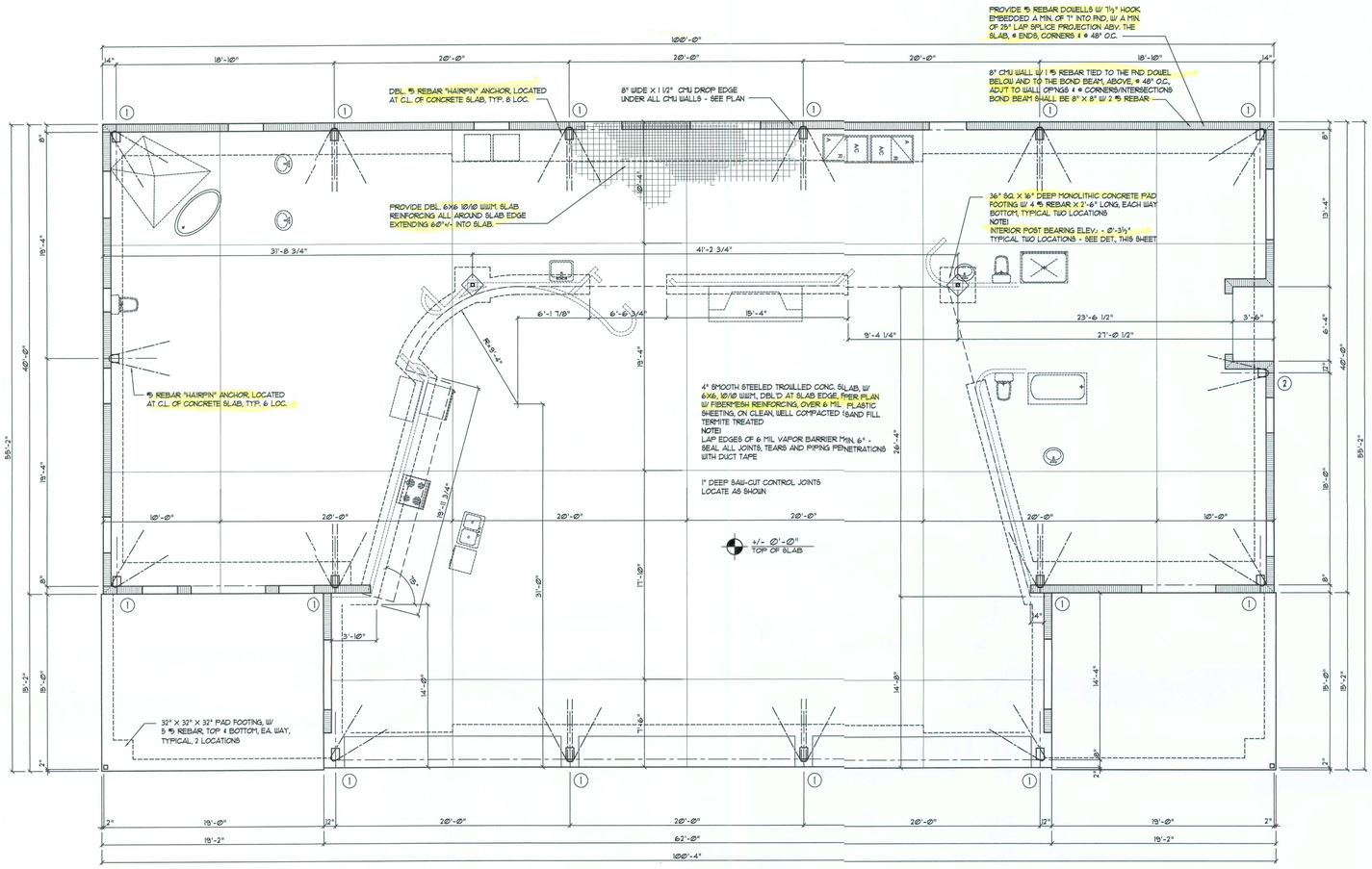
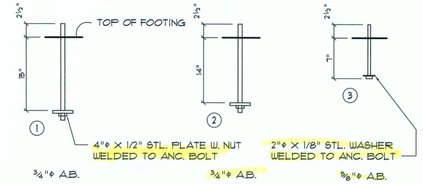
SHEET NUMBER
A.5
OF 5 SHEETS



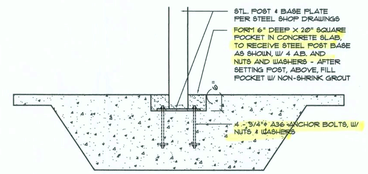


NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3", OR GRADE A307, BLACK, AND FREE FROM RUST AND SCALE

NOTE!
ALL DOOR/ENTRY OPENINGS INDICATED ARE NET SIZE, AND REQUIRE 2 #3 ANCHOR BOLTS AT EACH SIDE OF THE OPENING REFER TO METAL BUILDING SHOP DRAWINGS FOR DETAIL

Anchor Bolt DETAILS (1) (2)

SCALE: 1" = 1'-0"



Post Base DETAIL

SCALE: 1/2" = 1'-0"

NOTE!
REFER TO THE METAL BUILDING SHOP DRAWINGS PREPARED BY METAL BLDG. MANUFACTURER, FOR EXACT LOCATION OF ALL EMBEDDED ANCHOR BOLTS.

NOTE!
ADDED FILL SHALL BE APPLIED IN 12" LIFTS - EA. LIFT SHALL BE COMPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER 2014 FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3 1/2", BLACK AND FREE FROM RUST AND SCALE

NOTE!
THIS PROJECT IS TYPE 5 UNPROTECTED CONSTRUCTION PER 2014 FBC TABLE 503 AND TABLE 600

ANCHOR BOLT / FOUNDATION SIZING:

THE ANCHOR BOLT DIAMETERS AND DEVELOPED LENGTHS INDICATED IN THIS DRAWING WERE DETERMINNED USING SHEAR-FRICTION THEORY AS DESCRIBED IN AISC DESIGN GUIDE No.7, SECTION 9.2, ASSUMING AN ANCHOR BOLT MATERIAL OF ASTM A307 OR A36 THE COMBINED FORCES ACTING AT THE BASE OF THE STEEL FRAME RESULTING IN A VERTICAL REACTION ACTING UPON THE FOUNDATION WERE DEVELOPED AS FOLLOWS:

T = Td + Tsf

WHERE
T = TOTAL TENSILE FORCE PER BOLT
Td = TENSILE FORCE PER BOLT DUE TO DIRECTLY APPLIED LOAD = P/N
Tsf = TENSILE FORCE PER BOLT DUE TO SHEAR FRICTION = V / (n X u)

WHERE
P = P = TOTAL UPLIFT TO BE RESISTED BY ANCHOR BOLT GROUP
V = V = TOTAL SHEAR FORCE TO BE RESISTED BY ANCHOR BOLT GROUP
n = n = NUMBER OF ANCHOR BOLTS
u = u = COEFFICIENT OF FRICTION (TAKEN AS 0.7 FOR UNGROUTED BASE PLATES OR 0.5 FOR GROUTED BASE PLATES)

Foundation PLAN

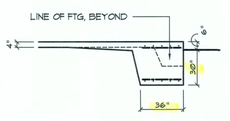
SCALE: 3/16" = 1'-0"

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"

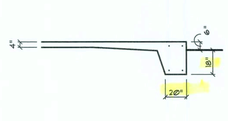
	ZONE	AREA	Vult 130 MPH	Vult 130 MPH	Vult 130 MPH	Vult 140 MPH
ROOF 7° TO 27°	1	10	12.8 / -19.8	14.9 / -23.1	17.5 / -27.8	20.3 / -32.3
	1	20	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4
	1	50	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2
	2	10	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2
	2	20	11.4 / -31.5	13.6 / -38.0	16.0 / -44.6	18.5 / -51.7
	2	50	10.0 / -28.2	11.9 / -33.6	13.9 / -39.4	16.1 / -45.7
	3	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1
	3	20	11.4 / -47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.7
	3	50	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5
WALL	4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2
	4	20	20.8 / -22.6	24.7 / -26.3	28.8 / -31.6	33.7 / -36.7
	4	50	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6
	5	10	21.8 / -29.1	25.9 / -34.7	30.4 / -40.7	35.3 / -47.2
	5	20	20.8 / -27.2	24.7 / -32.4	28.8 / -38.0	33.7 / -44.2
	5	50	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.47
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66



FOOTING @ MAIN FRAMES
SCALE: 1/4" = 1'-0"



FOOTING @ SLAB EDGE
SCALE: 1/4" = 1'-0"

REVISIONS
27 NOV 2017

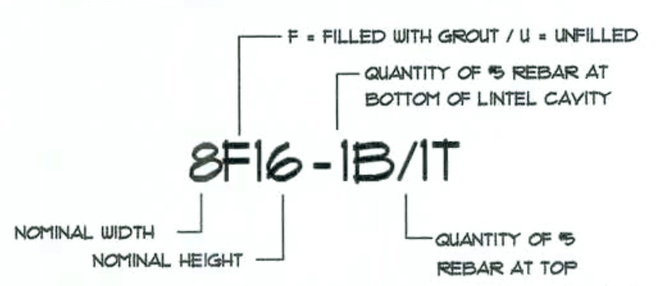
THE RICHARDS RESIDENCE
COLUMBIA COUNTY, FLORIDA

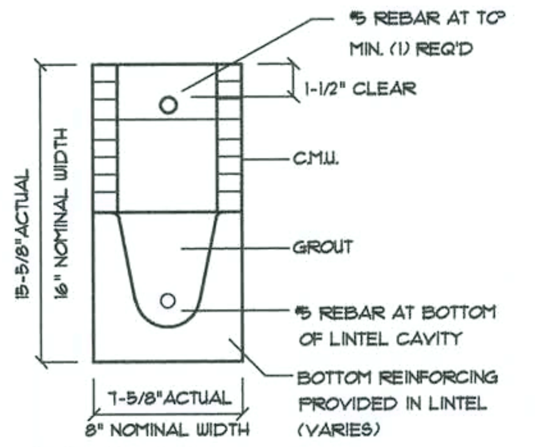
NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
(386) 365-4355

SHEET NUMBER
S.1
OF 3 SHEETS

Licensed
AR0007005

TYPE DESIGNATION





DETAIL A/3

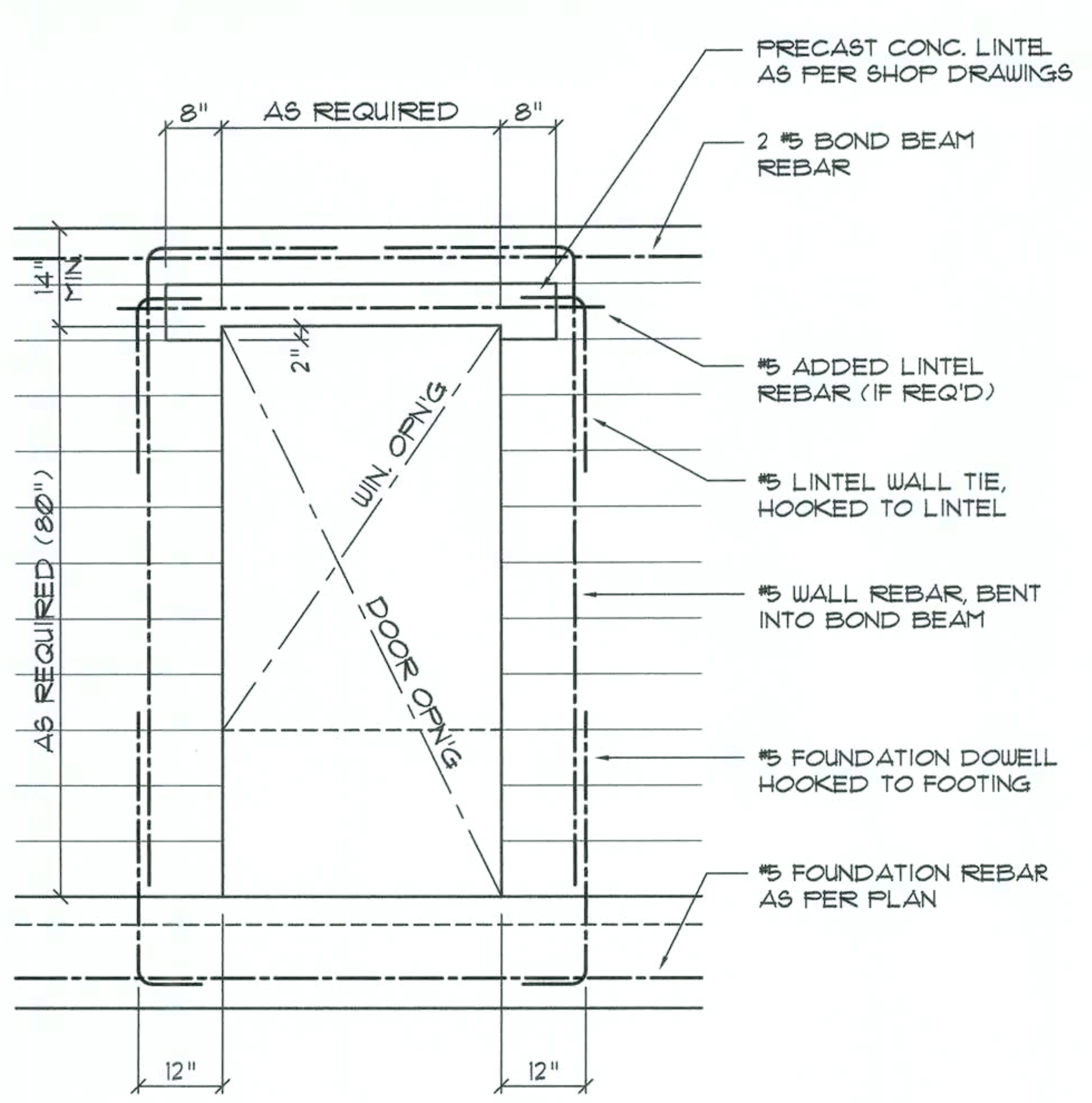
PRE-CAST LINTEL OVER GARAGE DOOR

PRE-CAST LINTELS @ LANAI COLUMNS

8" PRECAST & PRESTRESSED U-LINTELS

CAST-CRETE				GRAVITY						
MARK	LENGTH	TYPE	8U8	8F8-0B / 8F8-1B	8F12-0B / 8F12-1B	8F16-0B / 8F16-1B	8F20-0B / 8F20-1B	8F24-0B / 8F24-1B	8F28-0B / 8F28-1B	8F32-0B / 8F32-1B
L1	2'-10" (34")	PRECAST	2302	3166	4473	6039	7526	9004	10472	11936
				3166	4473	6039	7526	9004	10472	11936
L2	3'-6" (42")	PRECAST	2302	3138	3377	4689	6001	7315	8630	9947
				3166	4473	6039	7526	9004	10472	11936
L3	4'-0" (48")	PRECAST	2029	2325	2496	3467	4438	5410	6384	7358
				2646	4473	6039	7526	9004	10472	11936
L4	4'-6" (54")	PRECAST	1651	1787	1913	2657	3403	4149	4896	5644
				2170	4027	6039	7526	9004	10472	9668
L5	5'-4" (64")	PRECAST	1184	1223	1301	1809	2317	2826	3336	3846
				1665	2889	5057	6096	5400	6424	7450
L6	5'-10" (70")	PRECAST	972	1000	1059	1474	1889	2304	2721	3137
				1459	2464	4144	5458	4437	5280	6122
L7	6'-6" (78")	PRECAST	937	1255	2101	3263	2746	3358	3971	4585
				1255	2101	3396	5260	7134	8995	6890
L8	7'-6" (90")	PRECAST	767	1029	1675	2385	1994	2439	2886	3333
				1029	1675	2610	3839	5596	6613	5047
L9	9'-4" (112")	PRECAST	573	632	1049	1469	1210	1482	1754	2027
				768	1212	1818	2544	3469	4030	3127
L10	10'-6" (126")	PRECAST	456	482	802	1125	915	1122	1328	1535
				658	1025	1514	2081	2774	3130	2404
L11	11'-4" (136")	PRECAST	445	598	935	1365	1854	2355	1793	2075
				598	935	1365	1854	2441	3155	4044
L12	12'-0" (144")	PRECAST	414	545	864	1254	1689	2074	1570	1818
				555	864	1254	1693	2211	2832	3590
L13	13'-4" (160")	PRECAST	362	427	726	1028	1331	1635	1224	1418
				485	748	1076	1438	1855	2343	2920
L14	14'-0" (168")	PRECAST	338	381	648	919	1190	1462	1087	1260
				455	700	1003	1335	1714	2153	2666
L15	14'-8" (176")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				465	765	1370	2045	2610	3185	3765
L16	15'-4" (184")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				420	695	1250	1855	2370	2890	3410
L17	17'-4" (208")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				310	530	950	1400	1800	2200	2600
L18	19'-4" (232")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				240	400	750	1090	1400	1720	2030
L19	21'-4" (256")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				183	330	610	940	1340	1780	2110
L20	22'-0" (264")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				160	300	570	870	1250	1660	1970
L21	24'-0" (288")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				130	240	470	720	1030	1350	1610

NOTE!
ALL BLOCK CELLS CONTAINING VERTICAL REINFORCING, SHALL BE SOLIDLY FILLED WITH CONCRETE - SEE GENERAL NOTES



Typical Door/Window Opening Reinforcing DETAIL

SCALE: 1/2" = 1'-0"

NOTE!
REFER TO GENERAL NOTES FOR LAP SPLICE AND HOOK MINIMUM LENGTH/SIZE - ALL PER ACI 318-LATEST

REINFORCED MASONRY WALLS:

1. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, GRADE N, SQUARE END, WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH ON NET AREA OF f'm=2,000 (PSI). CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530.1 SPECIFICATIONS.

2. SPECIAL INSPECTOR SERVICES ARE REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION. THE SPECIAL INSPECTOR SHALL INSPECT THE PLACING OF THE REBARS IN THE CELLS, VERIFY CLEANLINESS OF THE CELLS TO BE GROUTED, AND OBSERVE THE PLACING OF THE GROUT OR CONCRETE INTO THE CELLS.

3. MORTAR SHALL CONFORM TO ASTM C-270, TYPE "M" OR "S".

4. LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.

5. MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.

6. THE USE OF ADMIXTURES SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER.

7. VERTICAL REINFORCING:

(A) ASTM A-615 PER REINFORCING SECTION.

(B) WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL INCH TO SIX INCHES VERTICAL FOR ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.

(C) VERTICAL REINFORCING STEEL SHALL BE PLACED CENTERED IN THE CELL. LAP 48 BAR-DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO MAINTAIN REINFORCING SECURED IN POSITION.

(D) VERTICAL REINFORCEMENT SHALL BE PROVIDED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING SHALL BE THE SAME SIZE AS THE SCHEDULED WALL REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN A #5 REBAR. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY AND ARE CLEAN OF EXCESS MORTAR.

(E) ALL VERTICAL REINFORCING SHALL BE HOOKED INTO THE BOND BEAMS AT THE NON-CONTINUOUS END OF THE REBARS.

(F) PROVIDE INSPECTION HOLES AT THE BOTTOM OF EACH REINFORCED MASONRY CELL, AS REQUIRED FOR LIFTS HIGHER THAN 5 FT.

8. HORIZONTAL REINFORCING:

PROVIDE GALVANIZED #9 GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCING EVERY SECOND BLOCK COURSE (1'-4" O.C. VERTICALLY) LAPPED 7-1/2". PROVIDE SPECIAL HORIZONTAL REINFORCING AT "T" AND "L" INTERSECTION. ANCHOR TO COLUMNS WITH MINIMUM 4" EXTENSION INTO AREA OF POUR.

9. PROVIDE "DOVE-TAIL" ANCHORS AT 16" O.C. VERTICALLY FOR ALL MASONRY PLACED ADJACENT TO ALREADY IN PLACE COLUMNS.

10. CELL FILLING CONCRETE SHALL BE "PEA DOCK" CONCRETE MIX (8" TO 9" SLUMP) OR GROUT WITH f'c=3,500 PSI MIN. AT 28 DAYS.

11. LINTELS:

A. THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE OR CAST-IN-SITE LINTELS AT THE HEADS OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING SIX (6) FEET IN WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. FOR OPENING ADJACENT TO CONCRETE COLUMNS - THE LINTEL SHALL BE CAST-IN-PLACE WITH THE COLUMN.

B. LINTEL MAY BE INTEGRAL WITH THE STRUCTURAL OR TIE BEAM WHEN HEAD OF THE OPENING IS 16 INCHES OR LESS BELOW. CONTINUE BEAM'S TYPICAL BOTTOM REBARS THROUGH AND ADD 2-#5 BOTTOM TRUSS BARS AT DROPS AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END AT DROP.

C. MINIMUM BEARING FOR ALL LINTELS 8 INCHES EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT CONCRETE COLUMNS.

D. LINTEL TO BE MINIMUM OF 8 INCHES DEEP WITH 2-#4 TOP AND BOTTOM FOR CLEAR SPANS LESS THAN 6 FEET, 12 INCHES DEEP WITH 2-#5 TOP AND BOTTOM AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END, FOR SPANS GREATER THAN 6 FEET (UP TO 8 FEET). CALL ENGINEER FOR SPANS LARGER THAN 8 FEET WITH NO SPECIFIED BEAMS OR LINTELS OVER.

COLD FORMED METAL FRAMING:

1. ALL COLD FORMED METAL FRAMING SHALL BE DOMESTIC A.S.T.M. A 653 (Fy = 33 K.S.I.) STEEL, AND DESIGNED IN ACCORDANCE WITH THE LATEST S.S.M.A. SPECIFACATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE S.S.M.A. CODE OF STANDARD PRACTICE.

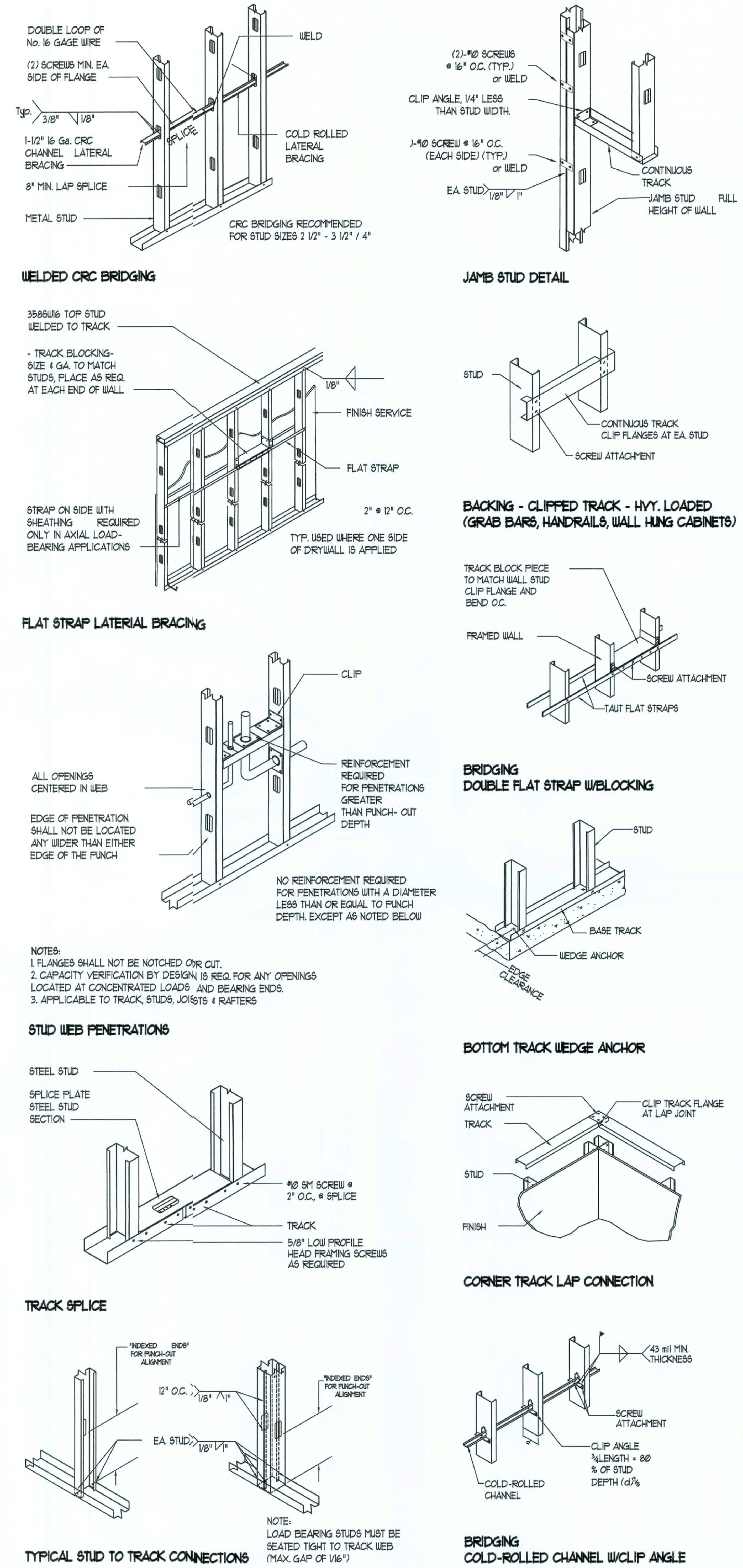
2. ALL CFMF COMPONENTS SHALL BE MANUFACTURED AS PER ASTM C 955 AND BE GALVANIZED WITH A MINIMUM G-60 COATING PER ASTM C 955.

ALL PRODUCTS SHALL BE FREE OF RUST, DENTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO INCLUSION IN THE WORK.

3. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST, E1.3 & D1.3 "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH ZINK RICH RUSTPROOFING PAINT.

4. BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION W/ ANCHOR BOLTS AS PER THE FOUNDATION PLAN AND SHALL BE FURTHER FASTENED AT EA. FULL STUD W/ .177" DIA. X 1\" PAF, SHOT THROUGH A 1" DIA. X 16 GA. HOLELESS WASHER.

5. STEEL BEARING ON STEEL TO BE WELDED THERETO.



Metal Stud DETAILS

SCALE: NONE

NOTE!
ALL METAL STUDS IN AXIAL LOAD APPLICATIONS SHALL BE 358S16 MINIMUM, W/ MATCHING TRACK, ALL WELDED JOINTS

GENERAL STRUCTURAL NOTES

GENERAL:

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.

3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.

4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

SHOP DRAWINGS AND DELEGATED ENGINEERING:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVAL STAMP. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN BY DELEGATED ENGINEERS, ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.

2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL, MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ARCHITECT-OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.

3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON THE STRUCTURAL PLANS (RELATED TO THE DELEGATED DESIGN) INCLUDING ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.

4. ARCHITECT WILL REVIEW ALL SUBMITTED SHOP DRAWINGS, PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER, ONLY FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT, REQUIRED LOADING AND COORDINATION WITH THE STRUCTURAL DESIGN.

5. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT TWO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR ARCHITECT REVIEW, BEFORE STARTING FABRICATION. THE ARCHITECT WILL RETURN ONE MARKED UP AND STAMPED COPY TO THE CONTRACTOR. THE MARKED-UP COPY SHALL BE USED TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION.

CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NOR ASSURE LIABILITY FOR THE JOB SAFETY, TEMPORARY SHORING AND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.

2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE AND APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.

4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.

5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE.

6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY OR PUBLIC UTILITIES.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE "B"

BASED ON ANSI/ASCE 7-10. 2010 FBC 1609-A WIND VELOCITY: V_{ULT} = 140 MPH
V_{ASD} = 108 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . 20 PSF
SUPERIMPOSED LIVE LOADS: . . . . 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . 25 PSF
SUPERIMPOSED LIVE LOADS:
COMMERCIAL . . . . 50 PSF
BALCONIES/CORRIDORS . . . . 80 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 1,000 PSF MINMUM. FOR REQUIRED SOIL BEARING CAPASITIES GREATER THAN 1,000 PSF, A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.

2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557).

3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).

4. BOTTOM OF ALL FOOTINGS TO BE A MINIMUM 1'-6" BELOW THE TOP OF CONCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-0" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-6" BELOW TOP OF THE LOWER SLAB.

5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC AND NON-MONOLITHIC) SHALL BE SPLICED 40 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.

6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.

7. ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.

8. WHEN GEO-TECHNICAL REPORTS ARE PROVIDED, ALL RECOMENDATIONS OF THE SOILS ENGINEER SHALL BE FOLLOWED AND THE DESIGN SOIL BEARING PRESSURE SHALL BE AS RECOMMENDED IN SUCH REPORTS, AND SUPERCEEDS PRESSURES INDICATED HEREIN.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. - 302.1R)

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT LOC. INDICATED ON THE PLANS DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,600 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 - LATEST EDITION) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" - (A.C.I. 315 - LATEST EDITION).

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (A.C.I. 301 - LATEST EDITION). PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R - LATEST EDITION).

3. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 5".

4. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 60, FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND C.R.S.I. MANUAL OF STANDARD PRACTICE.

5. CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:

FOOTINGS:	(BOTTOM).	3"
	(TOP & SIDES)	2"
SLABS ON GRADE:	CENTERED W/SLAB	

6. BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 INCHES. BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED (U.O.N.).

7. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND INTERMEDIATE REBARS).

8. SEE PLAN FOR MINIMUM SIZE CONCRETE TIE BEAM REQUIREMENTS.

NOTE!
REFER TO THE METAL BUILDING SHOP DRAWINGS PREPARED BY NUCOR METAL BUILDINGS, INC., FOR EXACT LOCATION OF ALL EMBEDDED ANCHOR BOLTS.

NOTE!
ADDED FILL SHALL BE APPLIED IN 12" LIFTS - EA. LIFT SHALL BE CONPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 140 MPH PER 2010 FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3 1/2", BLACK AND FREE FROM RUST AND SCALE

NOTE!
THIS PROJECT IS TYPE 5 UNPROTECTED CONSTRUCTION PER 2010 FBC TABLE 503 AND TABLE 600

REVISIONS

27 NOV 2017

THE RICHARDS RESIDENCE

COLUMBIA COUNTY, FLORIDA

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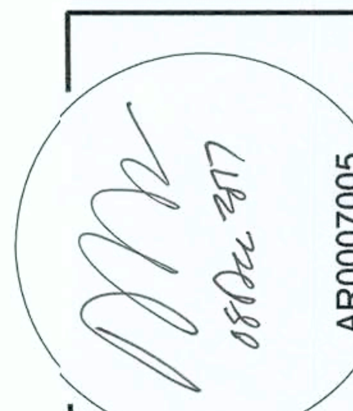
(386) 365-4355

SHEET NUMBER

S.2

OF 3 SHEETS



AR0007005

ADVANCED FLOOR PRODUCTS

THE DINING AREA AND HALL WILL BE FINISHED TO A HIGH GLOSS LEVEL 3 SHINE.

DEFINITION OF EXPECTED SHINE
HIGH GLOSS : REFLECTIVE SHINE IN WHICH, AT A DISTANCE OF 30', THE REFLECTIVITY IS CLEARLY DEFINED.
1) THE DINING AREA AND HALL ARE THE ONLY AREAS TO RECEIVE POLISHING
2) THE RECEIVING AREA, OFFICES AND RESTROOMS WILL BE FINISHED BY THE LANDLORD'S GC WITH SILICONE ACRYLIC CONCRETE SEALER.
3) POLYUREA JOINT FILL (STANDARD GRAY) WILL BE REQUIRED.
4) CONTROL JOINTS INSTALLED PER RECOMMENDATION OF STRUCTURAL ENGINEER AT SLAB DESIGN PER "SLAB ON GRADE" NOTES ON SHEET S2 AND MINIMUM PERFORMANCE REQUIREMENTS. THE EXACT PLACEMENT OF CONTROL JOINTS SHALL BE IN ACCORDANCE WITH THE SITE SPECIFIC RECOMMENDATION OF THE REGISTERED PROFESSIONAL STRUCTURAL ENGINEER AS PART OF THE SLAB DESIGN. CONTROL JOINTS SHALL BE PLACED PER THE ENGINEER'S RECOMMENDATION TO LIMIT CRACKING BASED ON THE SITE SPECIFIC STRUCTURAL SLAB DESIGN. THE MINIMUM SPACING LAYOUT IS SHOWN BELOW.

PROJECTS WILL BE COMPLETED USING ONLY 'ADVANCED FLOOR PRODUCTS' PRODUCTS
PRODUCT REQUIREMENTS
1) RETROPLATE 99 (NO SUBSTITUTE DENSIFIER) 55 GALS PER STORE.
2) RETROGUARD 2-5 GALLON PAILS
3) AMERIPOLISH EDGE TINT (PART A+B) (MIDNIGHT BLACK)
4) STANDARD POLY UREA GRAY JOINT FILL (APPLICATORS CHOICE)
5) DIAMONDS PURCHASED IN SETS TO EQUIP THE PARTICULAR MACHINE. GRITS NEEDED:
   A) 40, 50 OR 80 METAL DIAMONDS
   B) 100/120, 200/220, 400, 800 RESIN DIAMONDS
   C) 800, 1500 AND 3000 GRIT TWISTER PAD IS TO BE USED TO BURNISH.

ALL WORK WILL BE COMPLETED PER THESE SPECIFICATIONS.

QUALIFICATIONS
1) ALL APPLICATORS OF THE RETROPLATE SYSTEM MUST HAVE THE WORK EXPERIENCE AND BE CERTIFIED BY ADVANCED FLOOR PRODUCTS OF SPRINGVILLE, UTAH.
2) APPLICATOR MUST POSSESS A LETTER OF CERTIFICATION FROM ADVANCED FLOOR PRODUCTS 1203 W. SPRING CREEK PLACE, SPRINGVILLE, UT 84663.
   A) THE APPLICATOR MUST HAVE SATISFACTORILY INSTALLED RETROPLATE IN A MINIMUM OF 5 PROJECTS OF AT LEAST 6,000 SQ FEET.
   B) THE CERTIFIED PERSON IN THE COMPANY MUST BE PRESENT ON THE JOB DURING ALL PHASES OF THE INSTALLATION.
   C) APPLICATOR WILL PROVIDE THE RECOMMENDED GRINDING MACHINES AND ADVANCED FLOOR PRODUCTS DIAMONDS
3) EQUIPMENT:
   A) MINIMUM NUMBER OF MACHINES NEED FOR THE PROJECTS (2-32" PLANETARY)
   B) APPLICATORS WILL PROVIDE THE ELECTRICAL GENERATORS AS NECESSARY FOR THEIR EQUIPMENT.
   C) POLISH TO THE REQUIRED LEVEL 3 HIGH GLOSS SHINE.

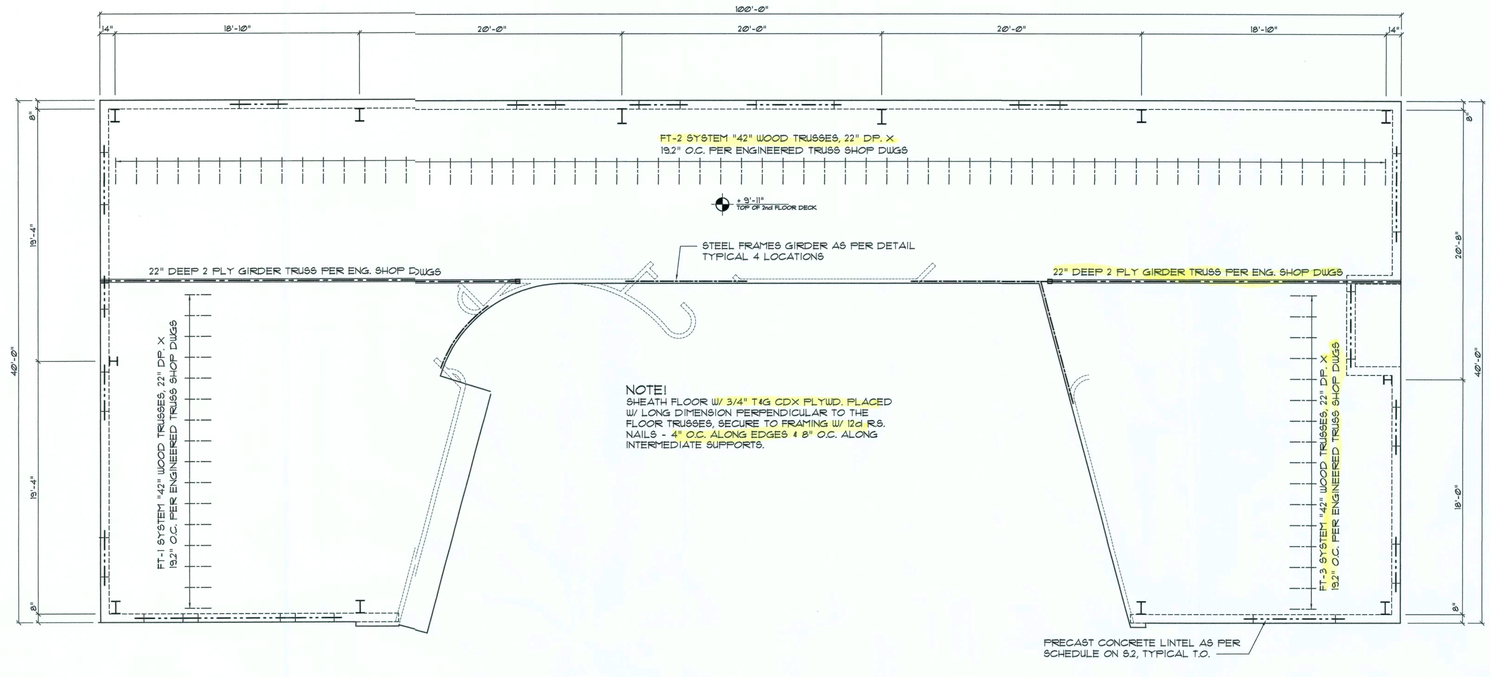
SCOPE OF WORK:
THE FOLLOWING RETROPLATE PROCESS WILL BE USED AS A GUIDE FOR RETROPLATE PROCESS AND IS THE MANUFACTURERS APPLICATION RECOMMENDATION. KEEP IN MIND THAT THE APPLICATOR WILL FINISH THE FLOOR TO A NICE LEVEL 3 HIGH GLOSS SHINE. APPLICATORS WILL ALTER THE STEPS AS NECESSARY TO ACHIEVE THE REQUIRED LEVEL 3 HIGH GLOSS SHINE. (SEE DEFINITION OF SHINE)

1) START THE GRIND USING 40, 50 OR 80 GRIT METAL PAD DEPENDING ON THE NEED. (MULTIPLE PASSES WILL BE REQUIRED FOR EACH STEP) MAKE SURE THAT THE PREVIOUS "SCRATCH PATTERN" IS TAKEN OUT BEFORE PROCEEDING.
2) CLEAN THE FLOOR.
3) GRIND FLOOR USING 100/120 GRIT PAD.
4) CLEAN THE FLOOR
5) GRIND THE FLOOR WITH A 200/220 GRIT PAD.
6) CLEAN FLOOR
7) APPLY RETROPLATE 99 TO THE SURFACE AT 200 SQ FT PER GALLON, SCRUBBING PRODUCT IN INTO FLOOR AND ALLOWING PRODUCT TO SOAK UNTIL TURNING BLACK. IF IT BECOMES STICKY, DAMPEN THE STICKY AREAS WITH WATER AND SCRUB IN, LEAVING THE PRODUCT ON THE FLOOR FOR 60 MINUTES.
8) CLEAN UP EXCESSIVE RETROPLATE 99. LET THE FLOOR DRY, OVERNIGHT IF POSSIBLE.
9) CONTINUE THE POLISHING PROCESS USING 400 AND 800 GRIT PADS. (800/1500/3000 GRIT TWISTER PAD, MULTIPLE PASSES, TO FINISH.)
10) AMERIPOLISH EDGE TINT (MIDNIGHT BLACK) WILL BE APPLIED AROUND THE PERIMETER OF THE SALES FLOOR AND HALL EXTENDING OUT 4 INCHES.
11) EDGE TINT WILL BE APPLIED USING A PAASCHE SPRAYER AT 40PSI.
12) EDGE TINT WILL BE APPLIED WITH A CUT OFF LINE UNDER THE DOOR EDGE AT THE RECEIVING, OFFICE AND RESTROOM ENTRANCES.
13) CHASE, CLEAN AND FILL APPROXIMATELY 340 LINEAR FEET OF JOINTS WITH STANDARD GRAY POLYUREA JOINT FILL.
14) APPLY RETROGUARD SEALER TO THE ENTIRE SALES FLOOR AND HALL SURFACE AT A RATE OF 1200-1500 FT PER GALLON.

FLOORS WILL BE FINISHED TO MINIMUM LEVEL 3 HIGH GLOSS SHINE
1) HIGH GLOSS: REFLECTIVE SHINE IN WHICH, AT A DISTANCE OF 30', THE REFLECTIVITY IS CLEARLY DEFINED.
2) SAMPLE PHOTOS ATTACHED OF REQUIRED RESULTS

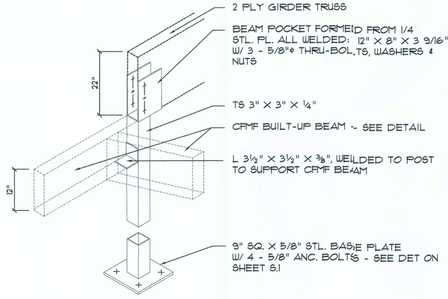
CONCRETE FLOOR CONDITIONS:
1) SEALING, HARDENING AND POLISHING OF CONCRETE SURFACE.
   A) CONCRETE MUST BE IN PLACE A MINIMUM OF 28 DAYS OR AS DIRECTED BY THE MANUFACTURER BEFORE APPLICATION CAN BEGIN.
   B) CONCRETE FLOOR WILL BE FINISHED TO A MINIMUM FF AND FL OF 40 +/- 5.
   C) ONLY A CERTIFIED APPLICATOR SHALL APPLY RETROPLATE 99. APPLICABLE PROCEDURES MUST BE FOLLOWED AS RECOMMENDED BY THE PRODUCT MANUFACTURER AND AS REQUIRED TO MATCH APPROVED TEST SAMPLE.
   D) POLISH TO THE REQUIRED LEVEL 3 HIGH GLOSS SHINE.

WORKMANSHIP AND CLEANING:
1) THE PREMISES SHALL BE KEPT CLEAN AND FREE OF DEBRIS AT ALL TIMES.
2) REMOVE SPATTER FROM ADJOINING SURFACES.
3) REMOVE DEBRIS FROM JOBSITE. DISPOSE OF MATERIALS IN SEPARATE, CLOSED CONTAINERS IN ACCORDANCE WITH LOCAL REGULATIONS.
4) UPON COMPLETION OF THE INSTALLATION OF THE RETROPLATE SYSTEM, THE APPLICATOR WILL MEET WITH THE SUPERVISOR OF CONSTRUCTION AND / OR THE DOLLAR TREE CONSTRUCTION MANAGER. THEY WILL WALK THROUGH AND WILL SIGN OFF THAT THE WORK IS SATISFACTORY.



2nd FLOOR FRAMING PLAN

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



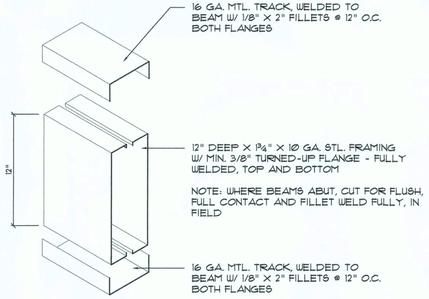
Post DETAIL (A)

SCALE: NONE

NOTE!
LINTEL SHOWN IS MINIMUM SIZE - GREATER DEPTH IS ACHEIVED BY INSERTING ADDITIONAL CMU BETWEEN PRECAST LINTEL AND TOP BOND BEAM COURSE. 8" X 16" BOND BEAM SHALL RUN THROUGH - ADD 1 #7 TO PRECAST LINTEL FOR GREATER DEPTHS.

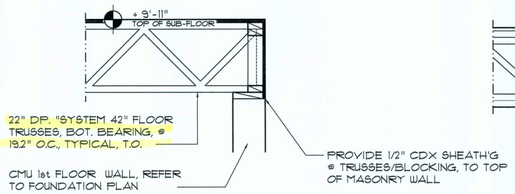
Lintel DETAIL (C)

SCALE: 1" = 1'-0"



CFMF Bm. DETAIL (B)

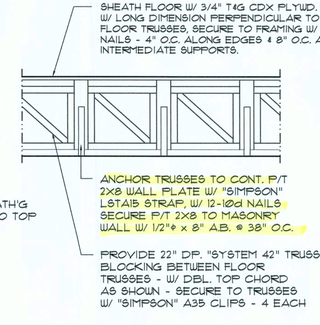
SCALE: NONE



Truss Blocking DET. (D)

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

NOTE:
WHERE TRUSSES BEAR ON STEEL FRAMING, WELD ANCHOR STRAPS TO CFMF WALL/BEAM AND SECURE TO TRUSSES W/ 8 - 10d NAILS



REVISIONS
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THE RICHARDS RESIDENCE

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SHEET NUMBER
S.3
OF 3 SHEETS

8/22/2017
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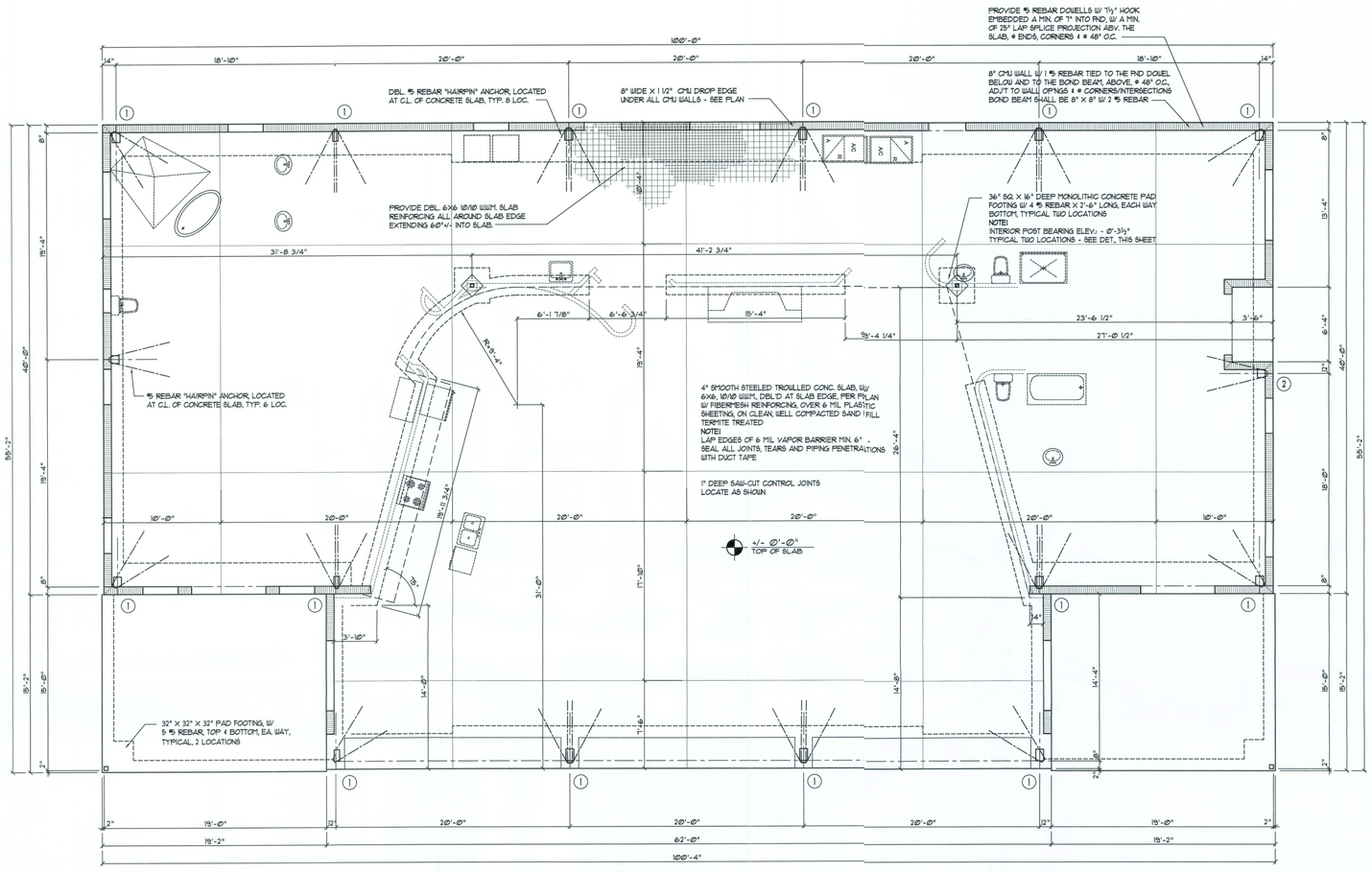
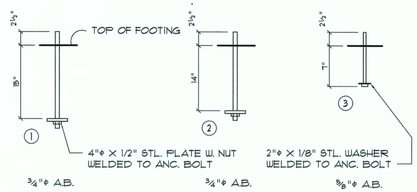


Foundation PLAN

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

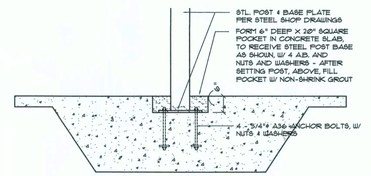


NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3", OR GRADE A307, BLACK, AND FREE FROM RUST AND SCALE

NOTE!
ALL DOOR/ENTRY OPENINGS INDICATED ARE NET SIZE, AND REQUIRE 2 #3 ANCHOR BOLTS AT EACH SIDE OF THE OPENING
REFER TO METAL BUILDING SHOP DRAWINGS FOR DETAIL

Anchor Bolt DETAILS 1 2

SCALE: 1" = 1'-0"



Post Base DETAIL

SCALE: 1/2" = 1'-0"

NOTE!
REFER TO THE METAL BUILDING SHOP DRAWINGS PREPARED BY METAL BLDG. MANUFACTURER, FOR EXACT LOCATION OF ALL EMBEDDED ANCHOR BOLTS.

NOTE!
ADDED FILL SHALL BE APPLIED IN 12" LIFTS - EA LIFT SHALL BE COMPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 150 MPH PER 2014 FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3 1/2", BLACK AND FREE FROM RUST AND SCALE

NOTE!
THIS PROJECT IS TYPE 5 UNPROTECTED CONSTRUCTION PER 2014 FBC TABLE 503 AND TABLE 600

ANCHOR BOLT / FOUNDATION SIZING:

THE ANCHOR BOLT DIAMETERS AND DEVELOPED LENGTHS INDICATED IN THIS DRAWING WERE DETERMINED USING SHEAR FRICTION THEORY AS DESCRIBED IN AISC DESIGN GUIDE No.1, SECTION 3.2, ASSUMING AN ANCHOR BOLT MATERIAL OF ASTM A307 OR A36. THE COMBINED FORCES ACTING AT THE BASE OF THE STEEL FRAME RESULTING IN A VERTICAL REACTION ACTING UPON THE FOUNDATION WERE DEVELOPED AS FOLLOWS:

T = Tcl + Tsf

WHERE
T = TOTAL TENSILE FORCE PER BOLT
Tcl = TENSILE FORCE PER BOLT DUE TO DIRECTLY APPLIED LOAD = P/n
Tsf = TENSILE FORCE PER BOLT DUE TO SHEAR FRICTION = V / (n X u)

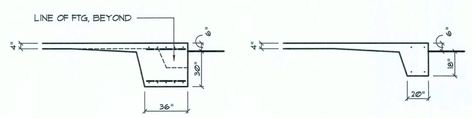
WHERE
P = P = TOTAL UPLIFT TO BE RESISTED BY ANCHOR BOLT GROUP
V = V = TOTAL SHEAR FORCE TO BE RESISTED BY ANCHOR BOLT GROUP
n = n = NUMBER OF ANCHOR BOLTS
u = u = COEFFICIENT OF FRICTION (TAKEN AS .67 FOR UNGROUTED BASE PLATES OR .9 FOR GROUTED BASE PLATES)

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30'-0", EXPOSURE "B"

	ZONE	AREA	VULT 130 MPH	VULT 140 MPH	VULT 150 MPH	VULT 160 MPH	VULT 170 MPH
ROOF 7° TO 27°	1	1SF	12.0 / -19.9	14.9 / -23.7	17.5 / -27.8	20.3 / -32.3	
	1	2SF	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4	
	1	5SF	10.0 / -18.6	11.9 / -22.2	13.5 / -26.0	16.1 / -30.2	
	2	1SF	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2	
	2	2SF	11.4 / -31.9	13.6 / -38.0	16.0 / -44.6	18.5 / -51.7	
	2	5SF	10.0 / -28.2	11.9 / -33.6	13.5 / -39.4	16.1 / -45.7	
	3	1SF	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1	
	3	2SF	11.4 /-47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.7	
	3	5SF	10.0 / -43.9	11.9 / -51.8	13.9 / -60.8	16.1 / -70.9	
WALL	4	1SF	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2	
	4	2SF	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7	
	4	5SF	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6	
	5	1SF	21.8 / -29.1	25.9 / -34.7	30.4 / -40.7	35.3 / -47.2	
	5	2SF	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0	
	5	5SF	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8	

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.47
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66



FOOTING @ MAIN FRAMES
SCALE: 1/4" = 1'-0"

FOOTING @ SLAB EDGE
SCALE: 1/4" = 1'-0"

REVISIONS
27 NOV 2017

THE RICHARDS RESIDENCE

COLUMBIA COUNTY, FLORIDA

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL. 32055
(386) 365-4355

SHEET NUMBER
S.1
OF 3 SHEETS

AR0007005

TYPE DESIGNATION

F = FILLED WITH GROUT / U = UNFILLED

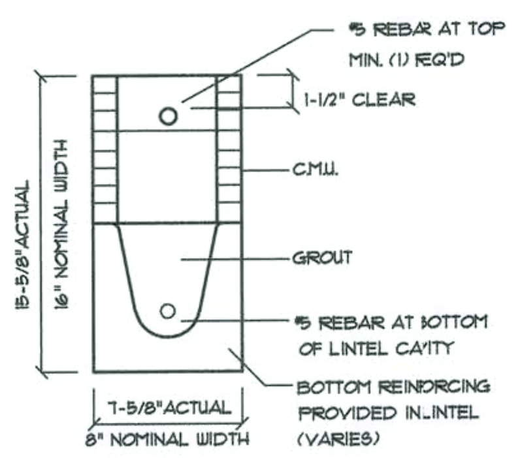
QUANTITY OF #5 REBAR AT BOTTOM OF LINTEL CAVITY

8F16-1B/1T

NOMINAL WIDTH

NOMINAL HEIGHT

QUANTITY OF #5 REBAR AT TOP



DETAIL A/3

PRE-CAST LINTEL OVER GARAGE DOOR

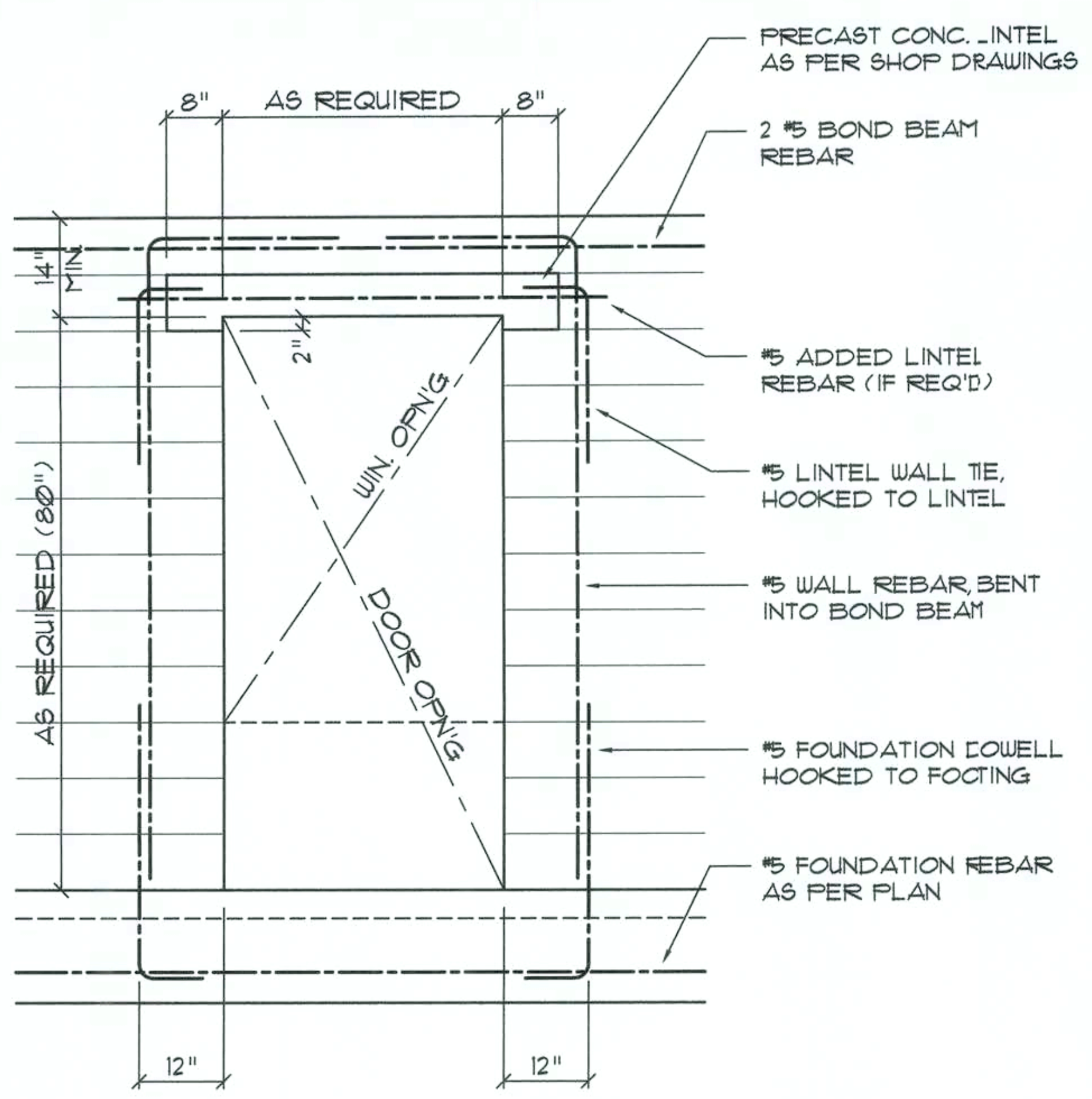
PRE-CAST LINTELS @ LANAI COLUMNS

8" PRECAST & PRESTRESSED U-LINTELS

CAST-CRETE — GRAVITY

MARK	LENGTH	TYPE	8U8	8F8-0B / 8F8-1B	8F12-0B / 8F12-1B	8F16-0B / 8F16-1B	8F20-0B / 8F20-1B	8F24-0B / 8F24-1B	8F28-0B / 8F28-1B	8F32-0B / 8F32-1B
L1	2'-10" (34")	PRECAST	2302	3166	4473	6039	7526	9004	10472	11936
				3166	4473	6039	7526	9004	10472	11936
L2	3'-6" (42")	PRECAST	2302	3138	3377	4689	6001	7315	8630	9947
				3166	4473	6039	7526	9004	10472	11936
L3	4'-0" (48")	PRECAST	2029	2325	2496	3467	4438	5410	6384	7358
				2646	4473	6039	7526	9004	10472	11936
L4	4'-6" (54")	PRECAST	1651	1787	1913	2657	3403	4149	4896	5644
				2170	4027	6039	7526	9004	10472	9668
L5	5'-4" (64")	PRECAST	1184	1223	1301	1809	2317	2826	3336	3846
				1665	2889	5057	6096	5400	6424	7450
L6	5'-10" (70")	PRECAST	972	1000	1059	1474	1889	2304	2721	3137
				1459	2464	4144	5458	4437	5280	6122
L7	6'-6" (78")	PRECAST	937	1255	2101	3263	2746	3358	3971	4585
				1255	2101	3396	5260	7134	8995	6890
L8	7'-6" (90")	PRECAST	767	1029	1675	2385	1994	2439	2886	3333
				1029	1675	2610	3839	5596	6613	5047
L9	9'-4" (112")	PRECAST	573	632	1049	1469	1210	1482	1754	2027
				768	1212	1818	2544	3469	4030	3127
L10	10'-6" (126")	PRECAST	456	482	802	1125	915	1122	1328	1535
				658	1025	1514	2081	2774	3130	2404
L11	11'-4" (136")	PRECAST	445	598	935	1365	1854	2355	1793	2075
				598	935	1365	1854	2441	3155	4044
L12	12'-0" (144")	PRECAST	414	545	864	1254	1689	2074	1570	1818
				555	864	1254	1693	2211	2832	3590
L13	13'-4" (160")	PRECAST	362	427	726	1028	1331	1635	1224	1418
				485	748	1076	1438	1855	2343	2920
L14	14'-0" (168")	PRECAST	338	381	648	919	1190	1462	1087	1260
				455	700	1003	1335	1714	2153	2666
L15	14'-8" (176")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				465	765	1370	2045	2610	3185	3765
L16	15'-4" (184")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				420	695	1250	1855	2370	2890	3410
L17	17'-4" (208")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				310	530	950	1400	1800	2200	2600
L18	19'-4" (232")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				240	400	750	1090	1400	1720	2030
L19	21'-4" (256")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				183	330	610	940	1340	1780	2110
L20	22'-0" (264")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				160	300	570	870	1250	1660	1970
L21	24'-0" (288")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				130	240	470	720	1030	1350	1610

NOTE!
ALL BLOCK CELLS CONTAINING VERTICAL REINFORCING, SHALL BE SOLIDLY FILLED WITH CONCRETE - SEE GENERAL NOTES



Typical Door/Window Opening Reinforcing DETAIL

SCALE: 1/2" = 1'-0"

NOTE!
REFER TO GENERAL NOTES FOR LAP SPLICE AND HOOK MINIMUM LENGTH/SIZE - ALL PER ACI 318-LATEST

REINFORCED MASONRY WALLS:

1. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, GRADE N, SQUARE END, WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH ON NET AREA OF f'm=2,000 (PSI). CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530.1 SPECIFICATIONS.

2. SPECIAL INSPECTOR SERVICES ARE REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION. THE SPECIAL INSPECTOR SHALL INSPECT THE PLACING OF THE REBARS IN THE CELLS, VERIFY CLEANLINESS OF THE CELLS TO BE GROUTED, AND OBSERVE THE PLACING OF THE GROUT OR CONCRETE INTO THE CELLS.

3. MORTAR SHALL CONFORM TO ASTM C-270, TYPE "M" OR "S".

4. LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.

5. MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.

6. THE USE OF ADMIXTURES SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER.

7. VERTICAL REINFORCING:

(A) ASTM A-615 PER REINFORCING SECTION.

(B) WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL INCH TO SIX INCHES VERTICAL FOR ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.

(C) VERTICAL REINFORCING STEEL SHALL BE PLACED CENTERED IN THE CELL. LAP 48 BAR-DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO MAINTAIN REINFORCING SECURED IN POSITION.

(D) VERTICAL REINFORCEMENT SHALL BE PROVIDED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING SHALL BE THE SAME SIZE AS THE SCHEDULED WALL REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN A #5 REBAR. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY AND ARE CLEAN OF EXCESS MORTAR.

(E) ALL VERTICAL REINFORCING SHALL BE HOOKED INTO THE BOND BEAMS AT THE NON-CONTINUOUS END OF THE REBARS.

(F) PROVIDE INSPECTION HOLES AT THE BOTTOM OF EACH REINFORCED MASONRY CELL, AS REQUIRED FOR LIFTS HIGHER THAN 5 FT.

8. HORIZONTAL REINFORCING:

PROVIDE GALVANIZED #9 GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCING EVERY SECOND BLOCK COURSE (1'-4" O.C. VERTICALLY) LAPPED 7-1/2". PROVIDE SPECIAL HORIZONTAL REINFORCING AT "T" AND "L" INTERSECTION. ANCHOR TO COLUMNS WITH MINIMUM 4" EXTENSION INTO AREA OF POUR.

9. PROVIDE "DOVE-TAIL" ANCHORS AT 16" O.C. VERTICALLY FOR ALL MASONRY PLACED ADJACENT TO ALREADY IN PLACE COLUMNS.

10. CELL FILLING CONCRETE SHALL BE "PEA DOCK" CONCRETE MIX (8" TO 9" SLUMP) OR GROUT WITH f'c=3,500 PSI MIN. AT 28 DAYS.

11. LINTELS:

A. THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE OR CAST-IN-SITE LINTELS AT THE HEADS OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING SIX (6) FEET IN WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. FOR OPENING ADJACENT TO CONCRETE COLUMNS - THE LINTEL SHALL BE CAST-IN-PLACE WITH THE COLUMN.

B. LINTEL MAY BE INTEGRAL WITH THE STRUCTURAL OR TIE BEAM WHEN HEAD OF THE OPENING IS 16 INCHES OR LESS BELOW. CONTINUE BEAM'S TYPICAL BOTTOM REBARS THROUGH AND ADD 2-#5 BOTTOM TRUSS BARS AT DROPS AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END AT DROP.

C. MINIMUM BEARING FOR ALL LINTELS 8 INCHES EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT CONCRETE COLUMNS.

D. LINTEL TO BE MINIMUM OF 8 INCHES DEEP WITH 2-#4 TOP AND BOTTOM FOR CLEAR SPANS LESS THAN 6 FEET, 12 INCHES DEEP WITH 2-#5 TOP AND BOTTOM AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END, FOR SPANS GREATER THAN 6 FEET (UP TO 8 FEET). CALL ENGINEER FOR SPANS LARGER THAN 8 FEET WITH NO SPECIFIED BEAMS OR LINTELS OVER.

COLD FORMED METAL FRAMING:

1. ALL COLD FORMED METAL FRAMING SHALL BE DOMESTIC A.S.T.M. A 653 (Fy = 33 K.S.I.) STEEL, AND DESIGNED IN ACCORDANCE WITH THE LATEST S.S.M.A. SPECIFACATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE S.S.M.A. CODE OF STANDARD PRACTICE.

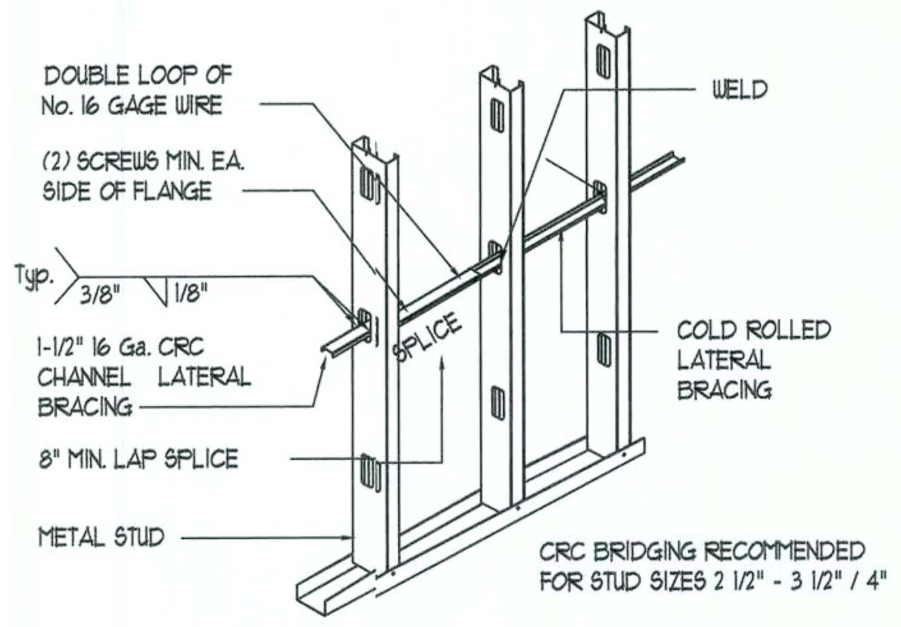
2. ALL CFMF COMPONENTS SHALL BE MANUFACTURED AS PER ASTM C 955 AND BE GALVANIZED WITH A MINIMUM G-60 COATING PER ASTM C 955.

ALL PRODUCTS SHALL BE FREE OF RUST, DENTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO INCLUSION IN THE WORK.

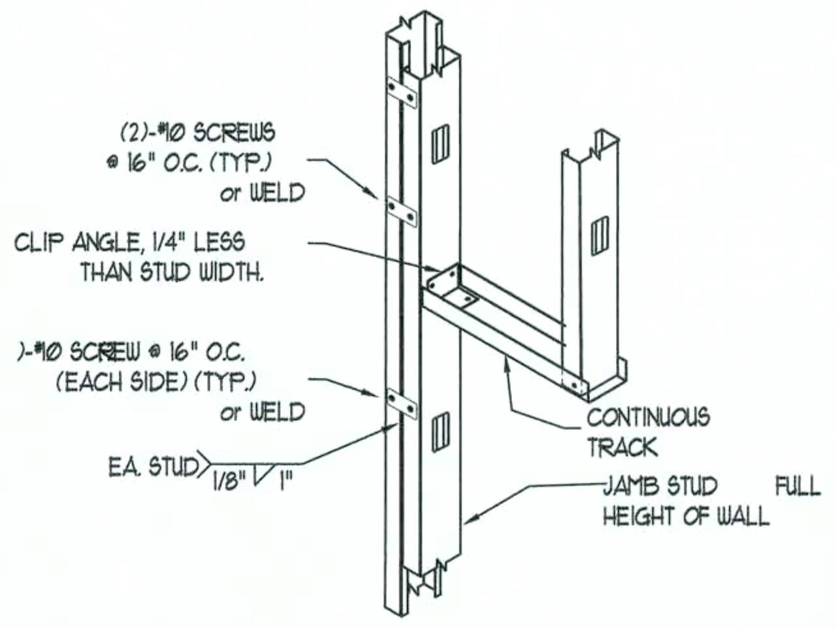
3. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST, E1.3 & D1.3 "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH ZINK RICH RUSTPROOFING PAINT.

4. BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION W/ ANCHOR BOLTS AS PER THE FOUNDATION PLAN AND SHALL BE FURTHER FASTENED AT EA. FULL STUD W/ .177" DIA. X 1\" PAF, SHOT THROUGH A 1" DIA. X 16 GA. HOLELESS WASHER.

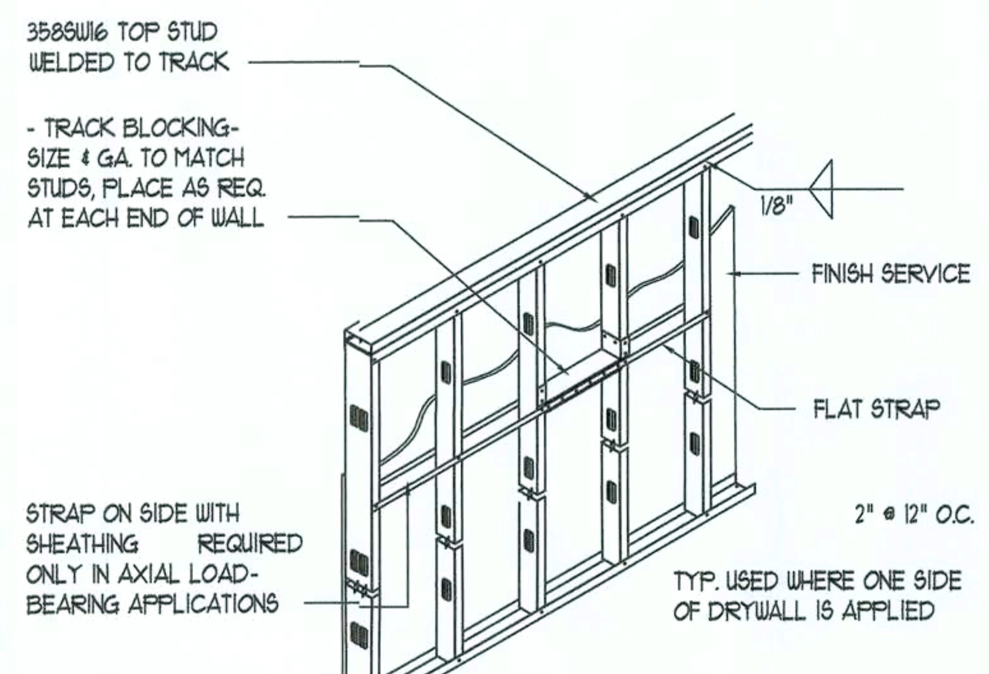
5. STEEL BEARING ON STEEL TO BE WELDED THERETO.



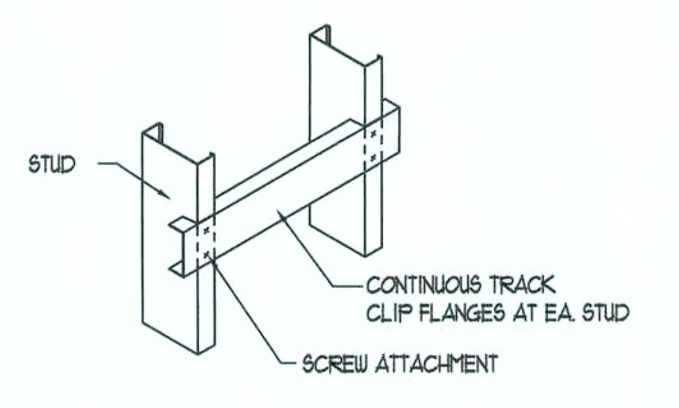
WELDED CRC BRIDGING



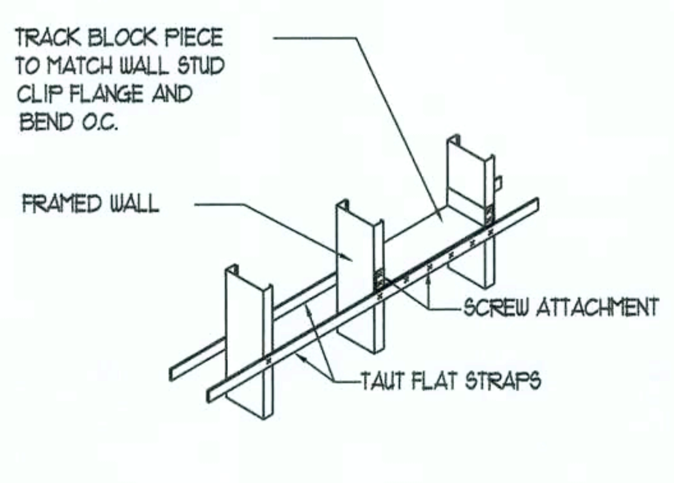
JAMB STUD DETAIL



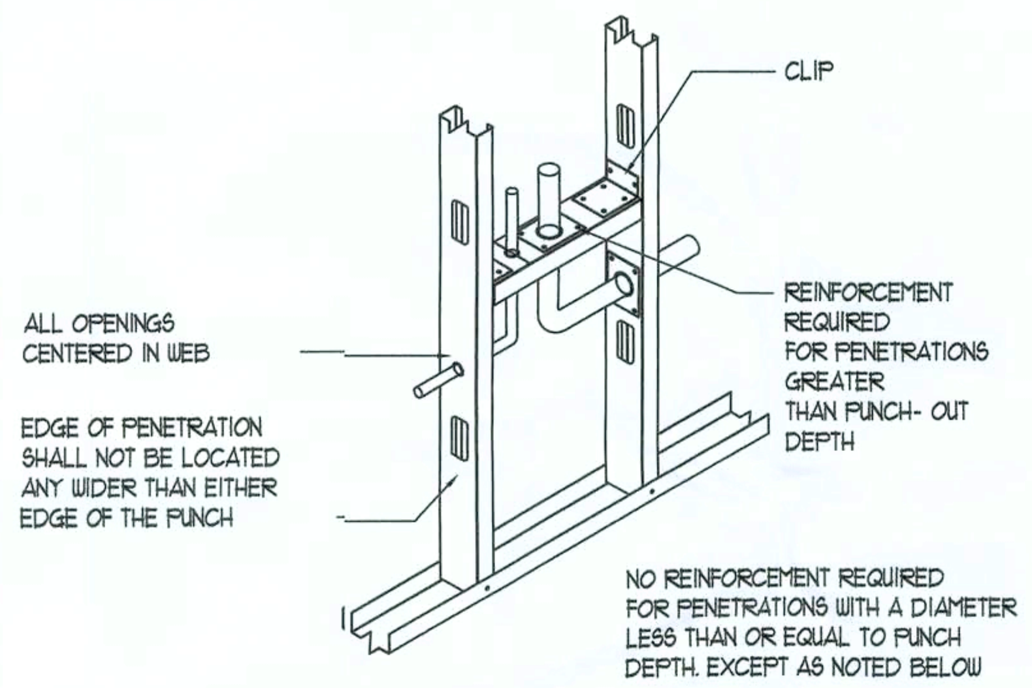
FLAT STRAP LATERIAL BRACING



BACKING - CLIPPED TRACK - HVY. LOADED (GRAB BARS, HANDRAILS, WALL HUNG CABINETS)

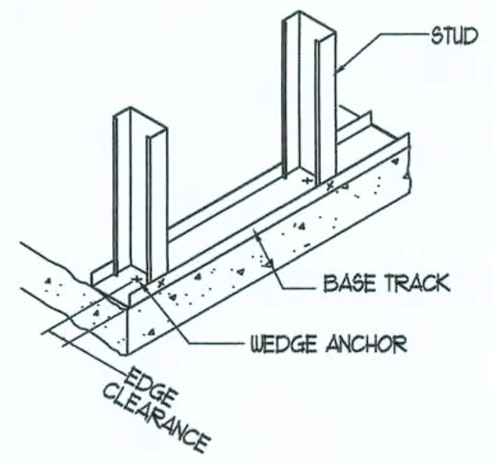


BRIDGING DOUBLE FLAT STRAP W/BLOCKING

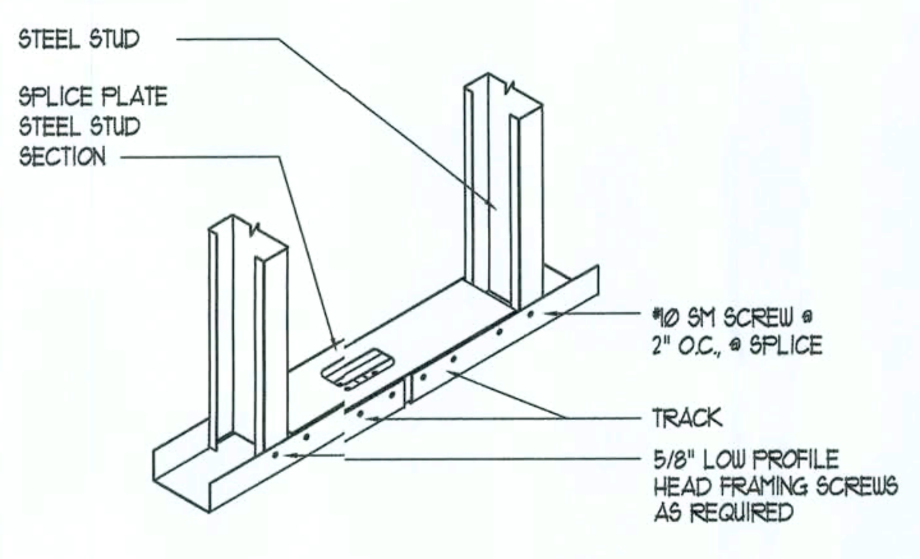


NOTES:
1. FLANGES SHALL NOT BE NOTCHED OR CUT.
2. CAPACITY VERIFICATION BY DESIGN IS REQ. FOR ANY OPENINGS LOCATED AT CONCENTRATED LOADS AND BEARING ENDS.
3. APPLICABLE TO TRACK, STUDS, JOISTS & RAFTERS

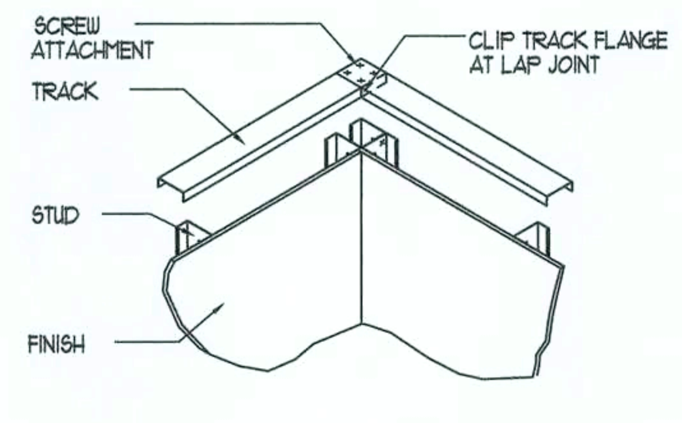
STUD WEB PENETRATIONS



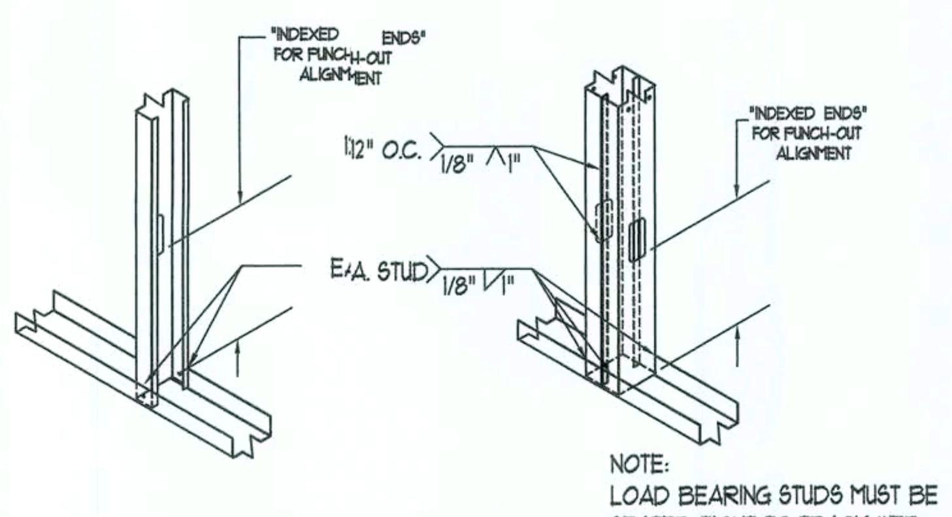
BOTTOM TRACK WEDGE ANCHOR



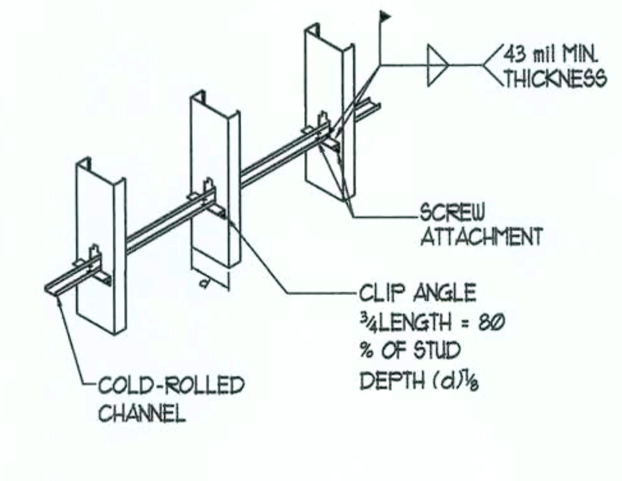
TRACK SPLICE



CORNER TRACK LAP CONNECTION



TYPICAL STUD TO TRACK CONNECTIONS



BRIDGING COLD-ROLLED CHANNEL W/CLIP ANGLE

Metal Stud DETAILS

SCALE: NONE

NOTE!
ALL METAL STUDS IN AXIAL LOAD APPLICATIONS SHALL BE 358SW18 MINIMUM, W/ MATCHING TRACK, ALL WELDED JOINTS

GENERAL STRUCTURAL NOTES

GENERAL:

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.

3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.

4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

SHOP DRAWINGS AND DELEGATED ENGINEERING:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVAL STAMP. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN BY DELEGATED ENGINEERS, ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.

2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL, MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ARCHITECT-OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.

3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON THE STRUCTURAL PLANS (RELATED TO THE DELEGATED DESIGN) INCLUDING ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.

4. ARCHITECT WILL REVIEW ALL SUBMITTED SHOP DRAWINGS, PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER, ONLY FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT, REQUIRED LOADING AND COORDINATION WITH THE STRUCTURAL DESIGN.

5. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT TWO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR ARCHITECT REVIEW, BEFORE STARTING FABRICATION. THE ARCHITECT WILL RETURN ONE MARKED UP AND STAMPED COPY TO THE CONTRACTOR. THE MARKED-UP COPY SHALL BE USED TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION.

CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NOR ASSURE LIABILITY FOR THE JOB SAFETY, TEMPORARY SHORING AND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.

2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE AND APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.

4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.

5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE.

6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY OR PUBLIC UTILITIES.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE "B"

BASED ON ANSI/ASCE 7-10. 2010 FBC 1609-A WIND VELOCITY: V_{ULT} = 140 MPH
V_{ASD} = 108 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . 20 PSF
SUPERIMPOSED LIVE LOADS: . . . . 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . 25 PSF
SUPERIMPOSED LIVE LOADS:
COMMERCIAL . . . . 50 PSF
BALCONIES/CORRIDORS . . . . 80 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 1,000 PSF MINMUM. FOR REQUIRED SOIL BEARING CAPASITIES GREATER THAN 1,000 PSF, A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.

2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557).

3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).

4. BOTTOM OF ALL FOOTINGS TO BE A MINIMUM 1'-6" BELOW THE TOP OF CONCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-0" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-6" BELOW TOP OF THE LOWER SLAB.

5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC AND NON-MONOLITHIC) SHALL BE SPLICED 40 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.

6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.

7. ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.

8. WHEN GEO-TECHNICAL REPORTS ARE PROVIDED, ALL RECOMENDATIONS OF THE SOILS ENGINEER SHALL BE FOLLOWED AND THE DESIGN SOIL BEARING PRESSURE SHALL BE AS RECOMMENDED IN SUCH REPORTS, AND SUPERCEEDS PRESSURES INDICATED HEREIN.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. - 302.1R)

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT LOC. INDICATED ON THE PLANS DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,600 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 - LATEST EDITION) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" - (A.C.I. 315 - LATEST EDITION).

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (A.C.I. 301 - LATEST EDITION). PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R - LATEST EDITION).

3. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 5".

4. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 60, FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND C.R.S.I. MANUAL OF STANDARD PRACTICE.

5. CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:

FOOTINGS: (BOTTOM). . . . . 3"
(TOP & SIDES) . . . . 2"

SLABS ON GRADE: CENTERED W/SLAB

6. BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 INCHES. BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED (U.O.N.).

7. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND INTERMEDIATE REBARS).

8. SEE PLAN FOR MINIMUM SIZE CONCRETE TIE BEAM REQUIREMENTS.

NOTE!
REFER TO THE METAL BUILDING SHOP DRAWINGS PREPARED BY NUCOR METAL BUILDINGS, INC., FOR EXACT LOCATION OF ALL EMBEDDED ANCHOR BOLTS.

NOTE!
ADDED FILL SHALL BE APPLIED IN 12" LIFTS - EA. LIFT SHALL BE COMPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 140 MPH PER 2010 FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3 1/2", BLACK AND FREE FROM RUST AND SCALE

NOTE!
THIS PROJECT IS TYPE 5 UNPROTECTED CONSTRUCTION PER 2010 FBC TABLE 503 AND TABLE 600

REVISIONS

27 NOV 2017

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SHEET NUMBER

S.2

OF 3 SHEETS

AR0007005

ADVANCED FLOOR PRODUCTS

THE DINING AREA AND HALL WILL BE FINISHED TO A HIGH GLOSS LEVEL 3 SHINE.

DEFINITION OF EXPECTED SHINE
HIGH GLOSS : REFLECTIVE SHINE IN WHICH, AT A DISTANCE OF 30', THE REFLECTIVITY IS CLEARLY DEFINED.
1) THE DINING AREA AND HALL ARE THE ONLY AREAS TO RECEIVE POLISHING
2) THE RECEIVING AREA, OFFICES AND RESTROOMS WILL BE FINISHED BY THE LANDLORDS GC WITH SILICONE ACRYLIC CONCRETE SEALER
3) POLYUREA JOINT FILL (STANDARD GRAY) WILL BE REQUIRED.
4) CONTROL JOINTS INSTALLED PER RECOMMENDATION OF STRUCTURAL ENGINEER AT SLAB DESIGN PER "SLAB ON GRADE" NOTES ON SHEET S1 AND MINIMUM PERFORMANCE REQUIREMENTS. THE EXACT PLACEMENT OF CONTROL JOINTS SHALL BE IN ACCORDANCE WITH THE SITE SPECIFIC RECOMMENDATION OF THE REGISTERED PROFESSIONAL STRUCTURAL ENGINEER AS PART OF THE SLAB DESIGN. CONTROL JOINTS SHALL BE PLACED PER THE ENGINEER'S RECOMMENDATION TO LIMIT CRACKING BASED ON THE SITE SPECIFIC STRUCTURAL SLAB DESIGN. THE MINIMUM SPACING LAYOUT IS SHOWN BELOW.

PROJECTS WILL BE COMPLETED USING ONLY 'ADVANCED FLOOR PRODUCTS'
PRODUCTS
PRODUCT REQUIREMENTS
1) RETROPLATE 99 (NO SUBSTITUTE DENSIFIER) 55 GALS PER STORE.
2) RETROGUARD 2-5 GALLON PAILS
3) AMERIPOLISH EDGE TINT (PART A+B) (MIDNIGHT BLACK)
4) STANDARD POLY UREA GRAY JOINT FILL (APPLICATORS CHOICE)
5) DIAMONDS PURCHASED IN SETS TO EQUIP THE PARTICULAR MACHINE. GRITS NEEDED:
   A) 40, 50 OR 80 METAL DIAMONDS
   B) 100/120, 200/220, 400, 800 RESIN DIAMONDS
   C) 800, 1500 AND 3000 GRIT TWISTER PAD IS TO BE USED TO BURNISH.

ALL WORK WILL BE COMPLETED PER THESE SPECIFICATIONS.

QUALIFICATIONS
1) ALL APPLICATORS OF THE RETROPLATE SYSTEM MUST HAVE THE WORK EXPERIENCE AND BE CERTIFIED BY ADVANCED FLOOR PRODUCTS OF SPRINGVILLE, UTAH.
2) APPLICATOR MUST POSSESS A LETTER OF CERTIFICATION FROM ADVANCED FLOOR PRODUCTS 1203 W. SPRING CREEK PLACE, SPRINGVILLE, UT 84663.
   A) THE APPLICATOR MUST HAVE SATISFACTORILY INSTALLED RETROPLATE IN A MINIMUM OF 5 PROJECTS OF AT LEAST 6,000 SQ FEET.
   B) THE CERTIFIED PERSON IN THE COMPANY MUST BE PRESENT ON THE JOB DURING ALL PHASES OF THE INSTALLATION.
   C) APPLICATOR WILL PROVIDE THE RECOMMENDED GRINDING MACHINES AND ADVANCED FLOOR PRODUCTS DIAMONDS
3) EQUIPMENT.
   A) MINIMUM NUMBER OF MACHINES NEED FOR THE PROJECTS (2-32" PLANETARY)
   B) APPLICATORS WILL PROVIDE THE ELECTRICAL GENERATORS AS NECESSARY FOR THEIR EQUIPMENT.
   C) POLISH TO THE REQUIRED LEVEL 3 HIGH GLOSS SHINE.

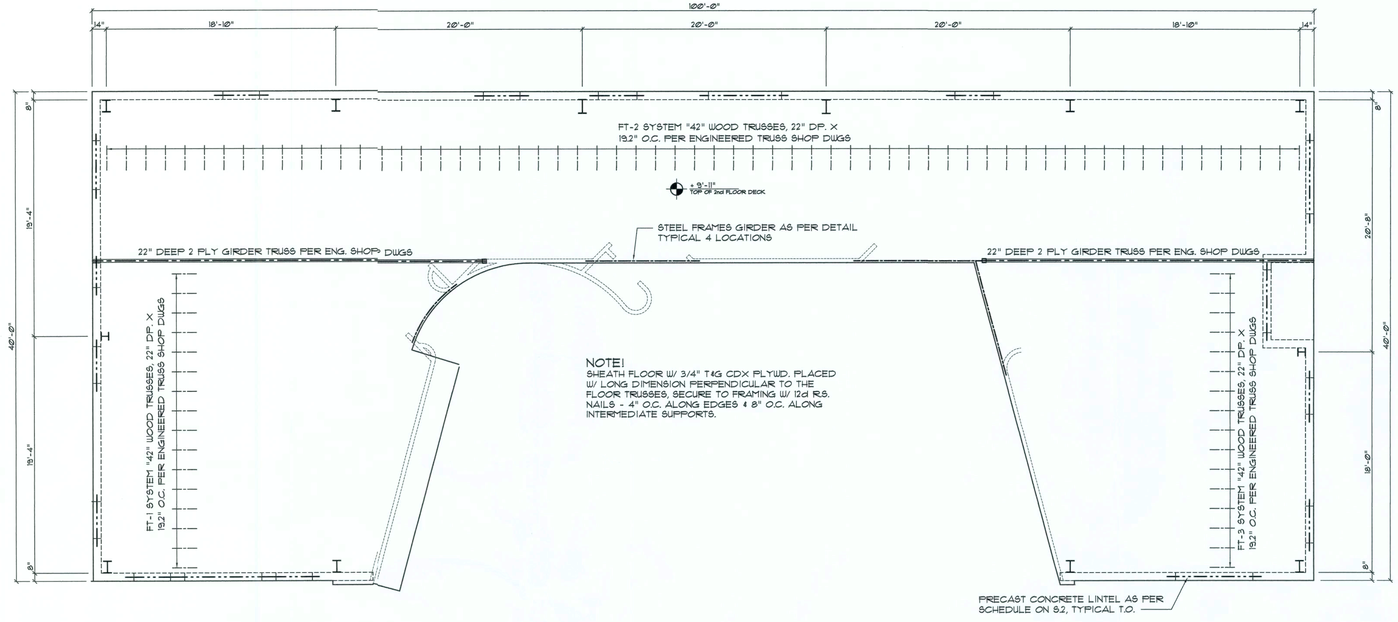
SCOPE OF WORK:
THE FOLLOWING RETROPLATE PROCESS WILL BE USED AS A GUIDE FOR RETROPLATE PROCESS AND IS THE MANUFACTURERS APPLICATION RECOMMENDATION. KEEP IN MIND THAT THE APPLICATOR WILL FINISH THE FLOOR TO A NICE LEVEL 3 HIGH GLOSS SHINE. APPLICATORS WILL ALTER THE STEPS AS NECESSARY TO ACHIEVE THE REQUIRED LEVEL 3 HIGH GLOSS SHINE. (SEE DEFINITION OF SHINE)

1) START THE GRIND USING 40, 50 OR 80 GRIT METAL PAD DEPENDING ON THE NEED. (MULTIPLE PASSES WILL BE REQUIRED FOR EACH STEP) MAKE SURE THAT THE PREVIOUS "SCRATCH PATTERN" IS TAKEN OUT BEFORE PROCEEDING.
2) CLEAN THE FLOOR.
3) GRIND FLOOR USING 100/120 GRIT PAD.
4) CLEAN THE FLOOR
5) GRIND THE FLOOR WITH A 200/220 GRIT PAD.
6) CLEAN FLOOR.
7) APPLY RETROPLATE 99 TO THE SURFACE AT 200 SQ FT PER GALLON. SCRUBBING PRODUCT IN INTO FLOOR AND ALLOWING PRODUCT TO SOAK UNTIL TURNING SLICK. IF IT BECOMES STICKY, DAMPEN THE STICKY AREAS WITH WATER AND SCRUB IN, LEAVING THE PRODUCT ON THE FLOOR FOR 60 MINUTES.
8) CLEAN UP EXCESSIVE RETROPLATE 99. LET THE FLOOR DRY, OVERNIGHT IF POSSIBLE.
9) CONTINUE THE POLISHING PROCESS USING 400 AND 800 GRIT PADS. (800/1500/3000 GRIT TWISTER PAD, MULTIPLE PASSES, TO FINISH.)
10) AMERIPOLISH EDGE TINT (MIDNIGHT BLACK) WILL BE APPLIED AROUND THE PERIMETER OF THE SALES FLOOR AND HALL EXTENDING OUT 4 INCHES.
11) EDGE TINT WILL BE APPLIED USING A PAASCHE SPRAYER AT 40PSI.
12) EDGE TINT WILL BE APPLIED WITH A CUT OFF LINE UNDER THE DOOR EDGE AT THE RECEIVING, OFFICE AND RESTROOM ENTRANCES.
13) CHASE, CLEAN AND FILL APPROXIMATELY 540 LINEAR FEET OF JOINTS WITH STANDARD GRAY POLYUREA JOINT FILL.
14) APPLY RETROGUARD SEALER TO THE ENTIRE SALES FLOOR AND HALL SURFACE
    AT A RATE OF 1200-1500 FT PER GALLON.

FLOORS WILL BE FINISHED TO MINIMUM LEVEL 3 HIGH GLOSS SHINE
1) HIGH GLOSS: REFLECTIVE SHINE IN WHICH, AT A DISTANCE OF 30', THE REFLECTIVITY IS CLEARLY DEFINED.
2) SAMPLE PHOTOS ATTACHED OF REQUIRED RESULTS

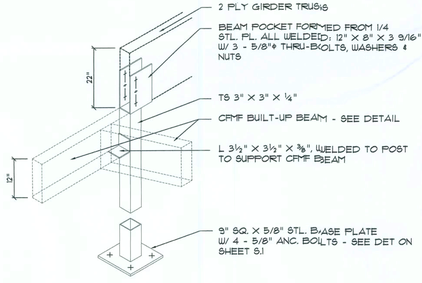
CONCRETE FLOOR CONDITIONS:
1) SEALING, HARDENING AND POLISHING OF CONCRETE SURFACE.
   A) CONCRETE MUST BE IN PLACE A MINIMUM OF 28 DAYS OR AS DIRECTED BY THE MANUFACTURER BEFORE APPLICATION CAN BEGIN.
   B) CONCRETE FLOOR WILL BE FINISHED TO A MINIMUM FF AND FL OF 40 +/- 5.
   C) ONLY A CERTIFIED APPLICATOR SHALL APPLY RETROPLATE 99. APPLICABLE PROCEDURES MUST BE FOLLOWED AS RECOMMENDED BY THE PRODUCT MANUFACTURER AND AS REQUIRED TO MATCH APPROVED TEST SAMPLE.
   D) POLISH TO THE REQUIRED LEVEL 3 HIGH GLOSS SHINE.

WORKMANSHIP AND CLEANING:
1) THE PREMISES SHALL BE KEPT CLEAN AND FREE OF DEBRIS AT ALL TIMES.
2) REMOVE SPATTER FROM ADJOINING SURFACES.
3) REMOVE DEBRIS FROM JOBSITE. DISPOSE OF MATERIALS IN SEPARATE, CLOSED CONTAINERS IN ACCORDANCE WITH LOCAL REGULATIONS.
4) UPON COMPLETION OF THE INSTALLATION OF THE RETROPLATE SYSTEM, THE APPLICATOR WILL MEET WITH THE SUPERVISOR OF CONSTRUCTION AND / OR THE DOLLAR TREE CONSTRUCTION MANAGER. THEY WILL WALK THROUGH AND WILL SIGN OFF THAT THE WORK IS SATISFACTORY.



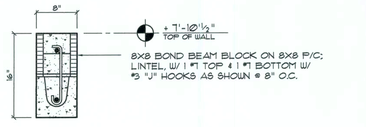
2nd FLOOR FRAMING PLAN

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



Post DETAIL (A)

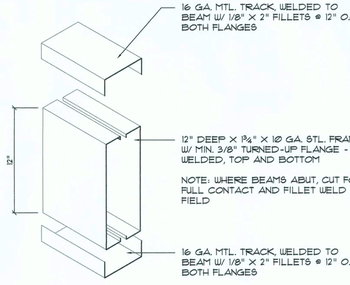
SCALE: NONE



NOTE!
LINTEL SHOWN IS MINIMUM SIZE - GREATER DEPTH IS ACHEIVED BY INSERTING ADDITIONAL CMU BETWEEN PRECAST LINTEL AND TOP BOND BEAM COURSE. 8" X 16" BOND BEAM SHALL RUN THROUGH - ADD 1 #7 TO PRECAST LINTEL FOR GREATER DEPTHS.

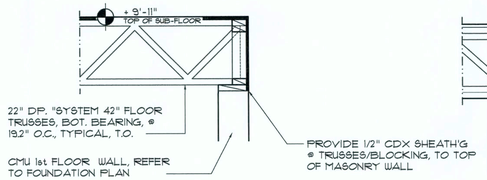
Lintel DETAIL (C)

SCALE: 1" = 1'-0"



CFMF Bm. DETAIL (B)

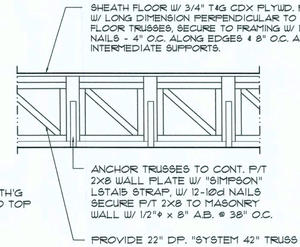
SCALE: NONE



Truss Blocking DET. (D)

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

NOTE:
WHERE TRUSSES BEAR ON STEEL FRAMING, WELD ANCHOR STRAPS TO CFMF WALL/BEAM AND SECURE TO TRUSSES W/ 8 - 10d NAILS



REVISIONS
27 NOV 2017

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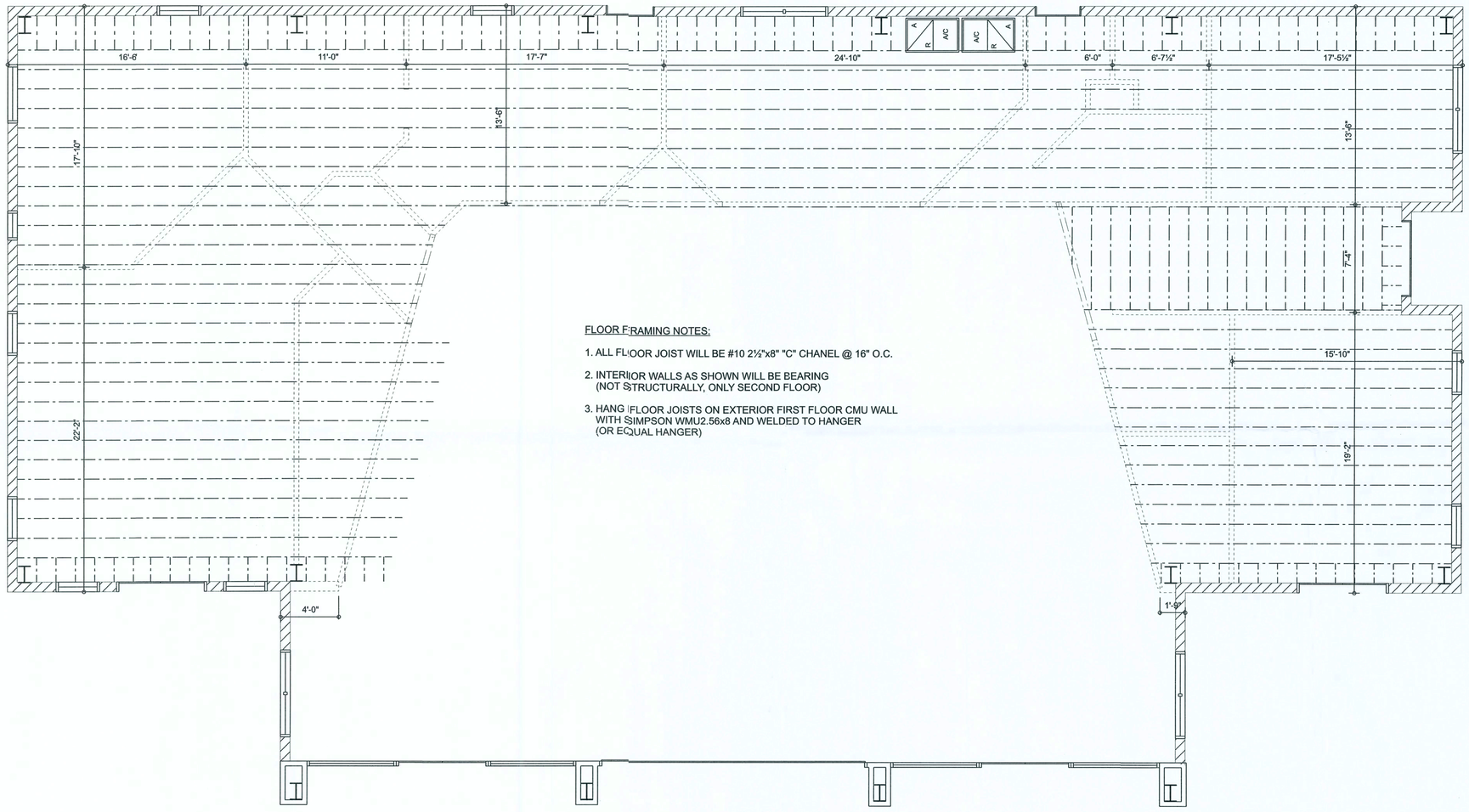
SHEET NUMBER
S.3
OF 3 SHEETS

AR0007005



FLOOR FRAMING NOTES:

1. ALL FLOOR JOIST WILL BE #10 2½"x8" "C" CHANEL @ 16" O.C.
2. INTERIOR WALLS AS SHOWN WILL BE BEARING (NOT STRUCTURALLY, ONLY SECOND FLOOR)
3. HANG FLOOR JOISTS ON EXTERIOR FIRST FLOOR CMU WALL WITH SIMPSON WMU2.56x8 AND WELDED TO HANGER (OR EQUAL HANGER)

FLOOR FRAMING PLAN

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

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COLUMBIA COUNTY BUILDING DEPARTMENT
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PLANS EXAMINER

SHEET NUMBER
A.6
OF 3 SHEETS

STATE OF FLORIDA
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