GENERAL NOTES

1. THE CONTRACTOR AND ALL SUB CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE OWNER OF ANY DISCREPANCY.THE CONTRACTOR AND SUBCONTRACTORS SHALL VERIFY DRAWINGS AND DIMENSIONS SHOWN ON THE STRUCTURAL WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITHIN 10 DAYS RECEIPT OF DRAWINGS.
2. FLOOR AND WALL OPENINGS , SLEEVES , VARIATION IN STRUCTURAL SLAB ELEVATIONS , DEPRESSED AREA SAND ALL OTHER ARCHITECTURAL , MECHANICAL, ELECTRICAL AND CIVIL REQUIREMENTS MUST BE COORDINATED BEFORE CONTRACTOR PROCEEDS.
3. IN ALL CASES WHERE A CONFLICT MAY OCCUR SUCH AS BETWEEN ITEMS COVERED BY SPECIFICATIONS AND NOTES ON THE DRAWINGS , OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS THE OWNER SHALL BE NOTIFY AND HE WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
4. DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
5. WHERE NO SPECIFIC DETAIL IS SHOWN THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.
6. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF 6TH EDITION FLORIDA BUILDING CODE.
7. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS , SECTIONS , OR DETAILS ON STRUCTURAL DRAWINGS.
8. THE PRECISE DIMENSIONS AND LOCATIONS OF DOORS AND WINDOWS OPENINGS SHALL BE DETERMINED FROM ARCHITECTURAL PLANS AND DETAILS COORDINATED WITH OWNERS SELECTIONS AND MANUFACTURES SPECS OTHER WALL AND FLOOR OPENINGS SHALL BE ALSO REQUIRED BY MECHANICAL, ELECTRICAL OR SIMILAR REQUIREMENTS SHALL BE VERIFIED FROM SHOP DRAWINGS , EQUIPMENT DATA, DIMENSIONS , ETC., AS REQUIRED.

STRUCTURAL NOTES.-

FOUNDATIONS.-
THE FOUNDATIONS ARE DESIGNED FOR ALLOWABLE SOIL BEARING PRESSURE OF 2000 POUNDS PER SQUARE FOOT FILL MATERIAL UP TO FINISH GRADE SHALL BE PLACED WITH MAXIMUM LIFTS OF 12 INCHES. SUBGRADE AND EACH LIFT OF MATERIAL SHALL BE COMPACTED TO 95 PROCTOR DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557.

CONCRETE.-
CONCRETE SHALL ACHIEVE A STRENGTH AT 28 DAYS OF 3000 PSI FOR FOOTINGS SLABS ON GRADE, AND GROUTED MASONRY CELLS. TIE BEAMS AND C.I.P. SLABS SHALL BE fc'=3000 PSI. CONCRETE SHALL BE A MIX DESIGNED BY A RECOGNIZED TESTING LABORATORY AND SHALL BE PLACED, CURED AND TESTED ACCORDING TO ACI AND ASTM STANDARDS AND SPECIFICATIONS.

FORMWORK AND SHORING.-
STRUCTURAL CONCRETE SHALL NOT BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH. ERECTION AND REMOVAL OF ALL FORMWORK SHORES AND RESHORES SHALL MEET THE REQUIREMENTS OF THE ACI STANDARDS AND SPECIFICATIONS.

REINFORCING STEEL.-
TO BE ASTM GRADE 60 DEFORMED BARS FREE FROM OIL AND RUST STEEL SHALL BE BENT AND PLACED ACCORDING TO THE ACI STANDARDS AND SPECIFICATIONS. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. #5 BARS SHALL BE LAPPED 2'-0" U.N.O.

WELDED WIRE FABRIC (WWF).-
TO CONFORM TO ASTM A-185 FREE FROM OIL AND RUST AND SHALL BE PLACED ACCORDING TO THE ACI STANDARDS AND SPECIFICATIONS. MINIMUM LAP SHALL BE ONE FOOT.

MISC STEEL.-
ALL NEW STEEL TO BE ASTM A-36 STRUCTURAL STEEL , 36 KSI MIN CONNECTIONS PER MIN. CONNECTIONS PER AISC STANDARDS DETAILS. BOLTS TO BE ASTM A307, WELDED TO BE PER AWS SPEC.

MASONRY WALLS.-
8" HOLLOW MASONRY UNITS SHALL MEET ASTM C-90 FOR LOAD BEARING TYPE MASONRY. MORTAR SHALL BE TYPE "M" OR "S" AND MEET C-270. GROUT SHALL BE 3000 PSI PEA GRAVEL CONCRETE AND MEET ASTM C-476. PROVIDE HOOKED DOWELS IN FOOTINGS FOR ALL VERTICAL REINFORCING ABOVE LAP SPLICES TO BE A MINIMUM 2'-1". EXTEND VERTICAL REINFORCING INTO HIGHEST CONCRETE BEAM ABOVE. MASONRY BLOCK CELLS AT WALL ENDS, CORNERS, INTERSECTIONS AND ADJACENT TO OPENINGS SHALL BE GROUT FILLED WITH ONE #5 VERTICAL REINFORCING BAR TIE BEAMS SHALL BE POURED AFTER THE MASONRY BLOCK WALLS BELOW ARE IN PLACE CONFINE CONCRETE IN THE TIE BEAMS TO AREA REQUIRED. DO NOT USE SOLID METAL OR FELT CAVITY CAPS. MASONRY WALLS BELOW THE SOIL LINE SHALL HAVE GALVANIZED 9 GAUGE TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT AT EACH COURSING AND WALLS ABOVE THE SOIL LINE SHALL HAVE THE HORIZONTAL JOINT REINFORCING SPACED AT 16" ON CENTER.

PENETRATIONS.-
NO PENETRATIONS OR OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS OR WITHOUT PREVIOUS APPROVAL OF THE ENGINEER

WOOD.-
WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PROTECTED OR PRESSURE TREATED IN ACCORDANCE WITH AITC-109

APPLICABLE CODES

6TH EDITION (2017) FLORIDA BUILDING CODES
6TH EDITION (2017) FLORIDA BUILDING CODE: RESIDENTIAL
2014 NFPA-70 NATIONAL ELECTRICAL CODE

PROJECT INFORMATION

ALLOWED	PROVIDED
OCCUPANCY/ CLASSIFICATION	RESIDENTIAL R-3
TYPE OF CONSTRUCTION:	TYPE V (B) - UNSPRINKLERED.
BUILDING AREA:	TOTAL UNDER ROOF: 1,743 SF.
HEIGHT OF BUILDING:	13'-3" MEAN HEIGHT OF ROOF
BUILDING HEIGHT IN STORIES:	1 STORY PROVIDED
FLOOD ZONE:	____
DESIGN CRITERIA.- BASIC WIND SPEED: WIND IMPORTANCE FACTOR (Iw): BUILDING CATEGORY: EXPOSURE CATEGORY:	160 MPH 1.0 LOW-RISE BUILDING. ENCLOSED C

SINGLE FAMILY RESIDENCE
"MONNA"
RESIDENCE
NAPLES, FL

INDEX TO DRAWINGS

iC Robalino
PLANNING & DESIGN SERVICES
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REV.	DESCRIPTION
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3	
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5	

PROJ. NAME: SINGLE FAMILY RESIDENCE
MONNA RESIDENCE
NAPLES, FL

DESCRIPTION: **COVER SHEET**

DATE: SEPT. 18, 2020

CRONIN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NUMBER: 8597
6627 WILLOW PARK DRIVE
NAPLES, FL 34109
PHONE: 593-2157 FAX: 593-8820

I CERTIFY THAT THESE PLANS AND SPECIFICATIONS CONFORM TO LOCAL BUILDING CODE REQUIREMENTS

DEREK P. CRONIN
FLORIDA P.E.# 65382

SHEET No:
A-1

DuPont Flashing Systems

PHYSICAL PROPERTIES DATA SHEET

Product Data

PROPERTIES	DUPONT™ FLEXWRAP™ NF	DUPONT™ FLEXWRAP™ RW	DUPONT™ FLASHING TAPE
Face Sheet	Micro-creped, polyethylene laminate (white)	Elasticized polyethylene laminate (white)	Polypropylene film
Adhesive*	Butyl Rubber (black)	Butyl Rubber (black)	Butyl Rubber (black)
Thickness	64 mil (1,620 microns)	70 mil (1,775 microns)	20 mil (507 microns)
Release Liner	1-piece, heavy-duty siliconized paper for 4-inch width product; 2-piece, heavy-duty siliconized paper for 9-inch width product	Custom-designed, multi-piece, heavy-duty siliconized paper	1-piece heavy-duty siliconized paper
Dimensions	6- or 9-inch width x 75 feet length	9-inch width x 6-inch length custom folded pieces	4, 6, or 9-inch width x 100 feet
Applications	Round top or custom shaped windows, 3-D sill protection, wall interruptions: i.e. dryer vents, hose bibs. Suitable for use on substrates where fasteners cannot be applied.	Corner pieces for sill and head of recessed windows. Available in single-stud or double-stud versions.	Jambs and heads of rectangular windows and doors.

PROPERTIES	DUPONT™ STRAIGHTFLASH™	DUPONT™ STRAIGHTFLASH™ VF
Face Sheet	Spunbonded polyethylene laminate (white)	Spunbonded polyethylene laminate (white)
Adhesive*	Butyl rubber (black)	Transpired dual sided adhesive for continuous integration; Butyl rubber (black)
Thickness	30 mil (760 microns)	30 mil (760 microns)
Release Liner	2-piece, heavy-duty siliconized, scored release paper	2-piece, heavy-duty siliconized, scored release paper
Dimensions	4-inch width x 150 feet length 9-inch width x 125 feet length	6-inch width x 125 feet length
Applications	Jambs and heads of rectangular windows.	Brick mold, non-integral flanged and non-flanged rectangular windows and doors.

* Adhesive system is based on 100% butyl elastomer with no asphalt/modified bitumen components.

Performance Testing

INSTALLED SYSTEM WATER INTRUSION TESTING (Tested with no exterior cladding) ASTM E-331 ASTM E-331 after thermal aging (0-160°F)	NO leakage at 300 Pa NO leakage at 300 Pa
WATER VAPOR PERMEABILITY (ASTM E-96)	< 1 perm (< 60 ng/Pa.sec.m²)
APPLICATION TEMPERATURE	Best when installed above 25°F (consult DuPont for primer recommendations)
UV RESISTANCE	Cover within 120 days
DUPONT FLASHING SYSTEMS PRODUCTS MEET THE AAMA 711-07 MATERIAL STANDARD AT THE HIGHEST CLASSIFICATION LEVELS:	Class A (no primer) Level 3 Thermal Exposure (80°C/176°F for 7 days)

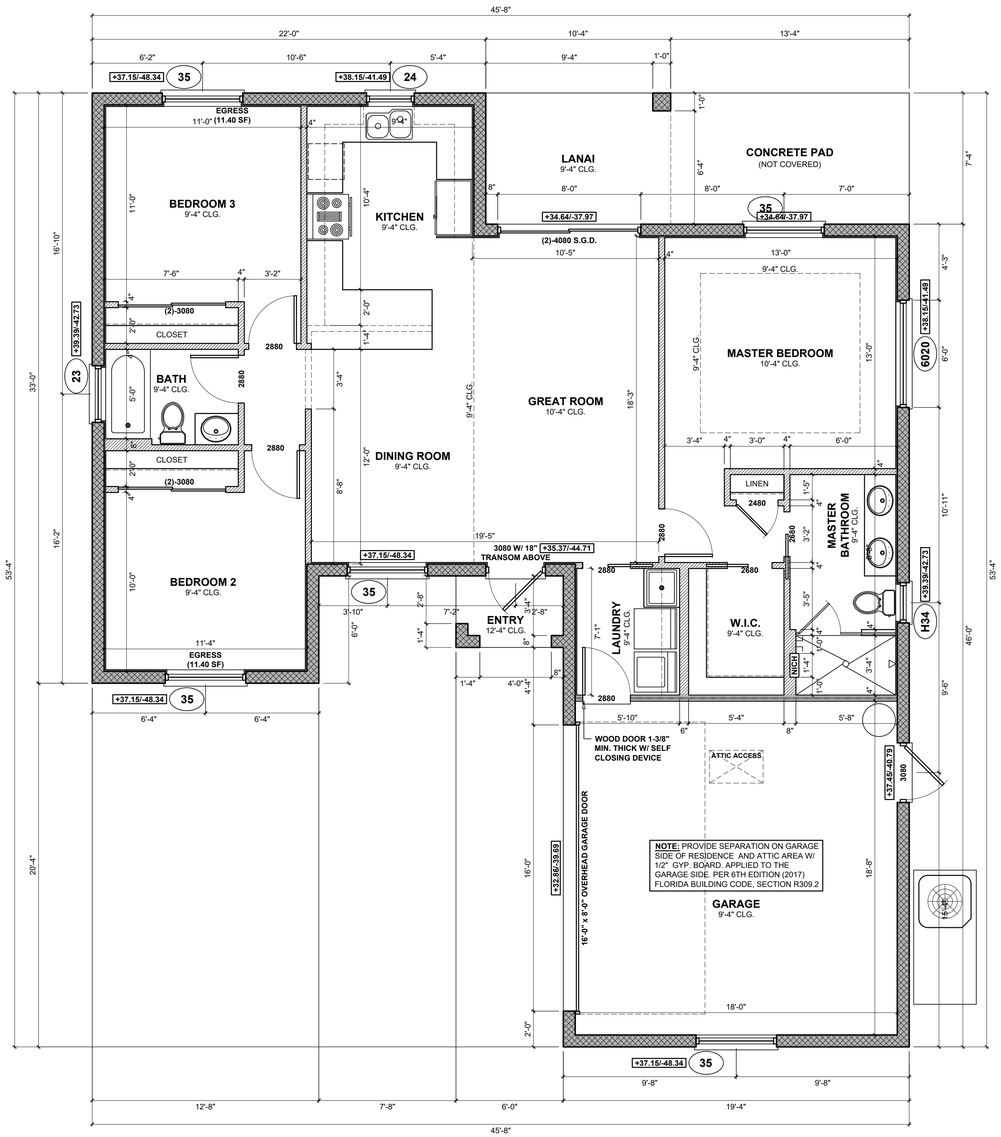
For more information about DuPont Flashing Systems, please visit us at www.Construction.Tyvek.com or call 1-800-44-Tyvek

WARNING: DuPont Flashing Systems products and their release paper are slippery and should not be walked on. Remove release paper from work area immediately.

DuPont Flashing Systems products are combustible and should be protected from flame and other high heat sources. If the temperature of DuPont Flashing Systems products reach 700°F (307°C) they will burn and the fire may spread and fall away from the point of ignition.

DUPONT *The miracles of science*

DuPont **Flashing Systems**



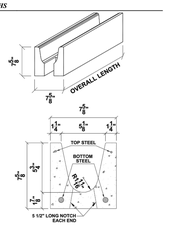
FLOOR PLAN

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

8" PRECAST U-LINTELS *STANDARD LENGTHS*

OVERALL LENGTH	TOP STEEL	BOTTOM STEEL
3'-0" (36")	2 -7/32" wire	2 -#3 rebar
3'-4" (40")	2 -7/32" wire	2 -#3 rebar
3'-6" (42")	2 -7/32" wire	2 -#3 rebar
4'-0" (48")	2 -7/32" wire	2 -#3 rebar
4'-6" (54")	2 -7/32" wire	2 -#3 rebar
4'-8" (56")	2 -7/32" wire	2 -#3 rebar
5'-4" (64")	2 -7/32" wire	2 -#3 rebar
5'-10" (70")	2 -7/32" wire	2 -#3 rebar
6'-0" (72")	2 -7/32" wire	2 -#4 rebar
6'-6" (78")	2 -7/32" wire	2 -#4 rebar
6'-8" (80")	2 -7/32" wire	2 -#4 rebar
7'-4" (88")	2 -7/32" wire	2 -#4 rebar
7'-6" (90")	2 -7/32" wire	2 -#4 rebar
8'-0" (96")	2 -#3 rebar	2 -#4 rebar
8'-8" (104")	2 -#3 rebar	2 -#4 rebar
9'-4" (112")	2 -#3 rebar	2 -#4 rebar
10'-0" (120")	2 -#3 rebar	2 -#4 rebar
10'-6" (126")	2 -#3 rebar	2 -#4 rebar
10'-8" (128")	2 -#3 rebar	2 -#5 rebar
11'-4" (136")	2 -#3 rebar	2 -#5 rebar
12'-0" (144")	2 -#3 rebar	2 -#5 rebar
13'-4" (160")	2 -#3 rebar	2 -#5 rebar
14'-0" (168")	2 -#3 rebar	2 -#5 rebar

Additional lengths available by special order

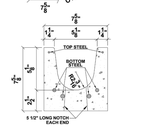


Rebar: ASTM A615 Grade 60
Wire: ASTM A510
Concrete Strength: 3500 psi
Average Self Weight: 33 plf
Finish: Grey Block

8" PRESTRESSED U-LINTELS *STANDARD LENGTHS*

OVERALL LENGTH	TOP STEEL	BOTTOM STEEL
14'-8" (176")	NONE	2 -7/16 strand
15'-4" (184")	NONE	2 -7/16 strand
17'-4" (208")	NONE	2 -7/16 strand
19'-4" (232")	2 -7/32" wire	2 -7/16 strand
21'-4" (256")	2 -7/32" wire	2 -7/16 strand 2 - #4 rebar
22'-0" (264")	2 -7/32" wire	2 -7/16 strand 2 - #4 rebar
24'-0" (288")	2 -7/32" wire	2 -7/16 strand 2 - #4 rebar

Additional lengths available by special order



Rebar: ASTM A615 Grade 60
Wire: ASTM A510
Strand: ASTM A416 Grade 270
Concrete Strength: 6000 psi
Synthetic Fibers: 2.5 lbs/yd
Average Self Weight: 37 plf
Finish: Grey Smooth Form

WINDOW SCHEDULE

WINDOW MARK	WINDOW SIZE	TYPE	REMARK
H34	26-1/2" x 50-5/8"	SINGLE HUNG	SHUTTER PROTECTION
23	37" x 38-3/8"	SINGLE HUNG	SHUTTER PROTECTION
24	37" x 50-5/8"	SINGLE HUNG	SHUTTER PROTECTION
35	53-1/8" x 63"	SINGLE HUNG	SHUTTER PROTECTION
6020	72" x 24"	FIXED WINDOW	SHUTTER PROTECTION

NOTE: GARAGE DOOR & ENTRY DOOR TO BE IMPACT RESISTANT.
REST OF DOORS & WINDOWS TO BE PROTECTED WITH SUTTERS.

NOTE: USE "DuPont FlexWrap NF" SELF ADHERED FLASHING (OR SIMILAR) AROUND WINDOWS AND DOORS PER MANUFACTURER RECOMMENDATIONS. SELF-ADHERED MEMBRANE USED AS FLASHING SHALL COMPLY WITH AAMA 711. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH.

BUILDING SQUARE FOOTAGE

TABULATION

TOTAL A/C LIVING AREA	1,270	SQ FT
GARAGE	374	SQ FT
ENTRY	24	SQ FT
LANAI	75	SQ FT
TOTAL NON-A/C	473	SQ FT
TOTAL UNDER ROOF	**1,743**	**SQ FT**

JC Robalino, INC.
PLANNING & DESIGN SERVICES
C 239.216.3157 | P 239.216.3157 | F 239.228.4841 | jcrobalino@mail.com

REV.	DESCRIPTION

THE OWNER OR CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR THE CONSTRUCTION PROJECT AND SHALL BE FAMILIAR WITH AND SHALL VERIFY ANY AND ALL CONDITIONS AND DIMENSIONS. THE CONTRACTOR SHALL COMPLY STRICTLY TO LOCAL ORDINANCES. THEY SHALL ALSO NOTIFY THE ARCHITECT IN WRITING FOR ANY ERRORS, OMISSIONS, OR NON-CONFORMANCE OF SUCH CODES BEFORE PROCEEDING WITH CONSTRUCTION.

THESE CONSTRUCTION DOCUMENTS WERE PREPARED IN ACCORDANCE WITH AND FOR A PERMIT AND AS A CONSTRUCTION GUIDE AND ARE NOT APPROVED FOR BIDDING OR NEGOTIATION PURPOSES.

PROJ. NAME: SINGLE FAMILY RESIDENCE
MONNA RESIDENCE
NAPLES, FL

DESCRIPTION: **FLOOR PLAN**

DATE: SEPT. 18, 2020

CRONIN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NUMBER: 8597
6627 WILLOW PARK DRIVE
NAPLES, FL 34109
PHONE: 593-2157 FAX: 593-8820

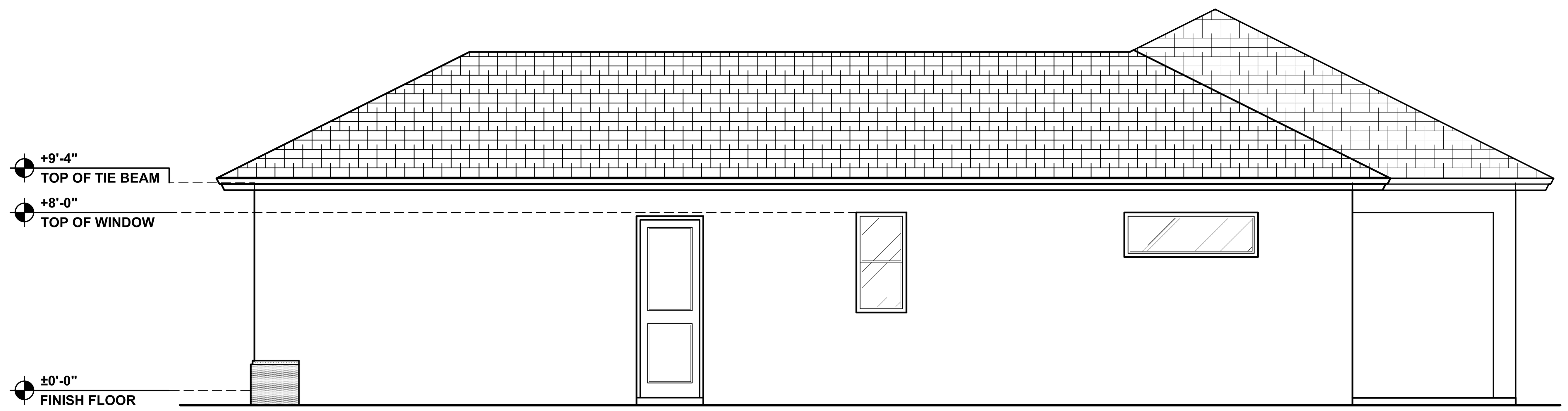
I CERTIFY THAT THESE PLANS AND SPECIFICATIONS CONFORM TO LOCAL BUILDING CODE REQUIREMENTS

DEREK P. CRONIN
FLORIDA PE # 55362

SHEET No:
A-2

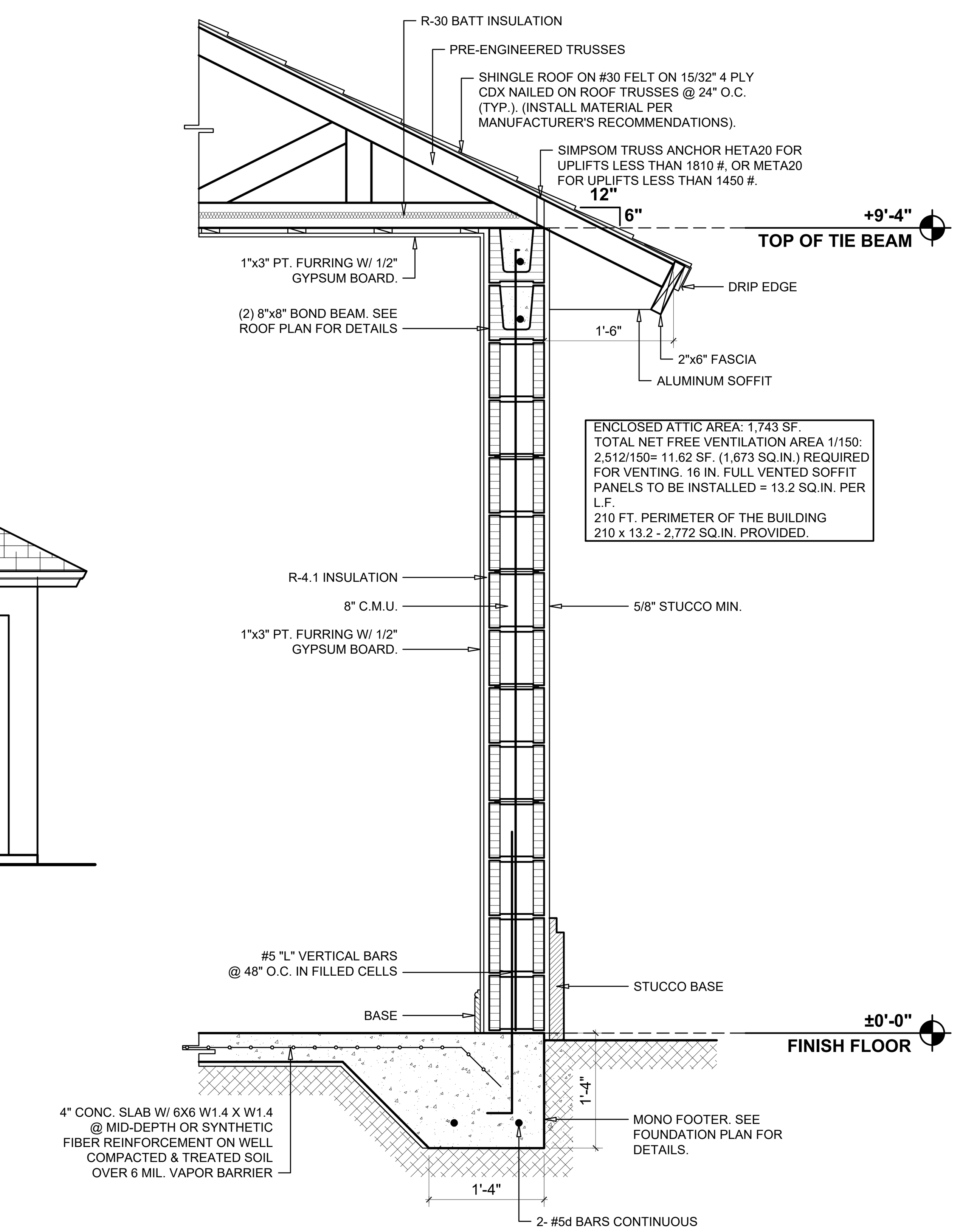
FRONT ELEVATION

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



RIGHT SIDE ELEVATION

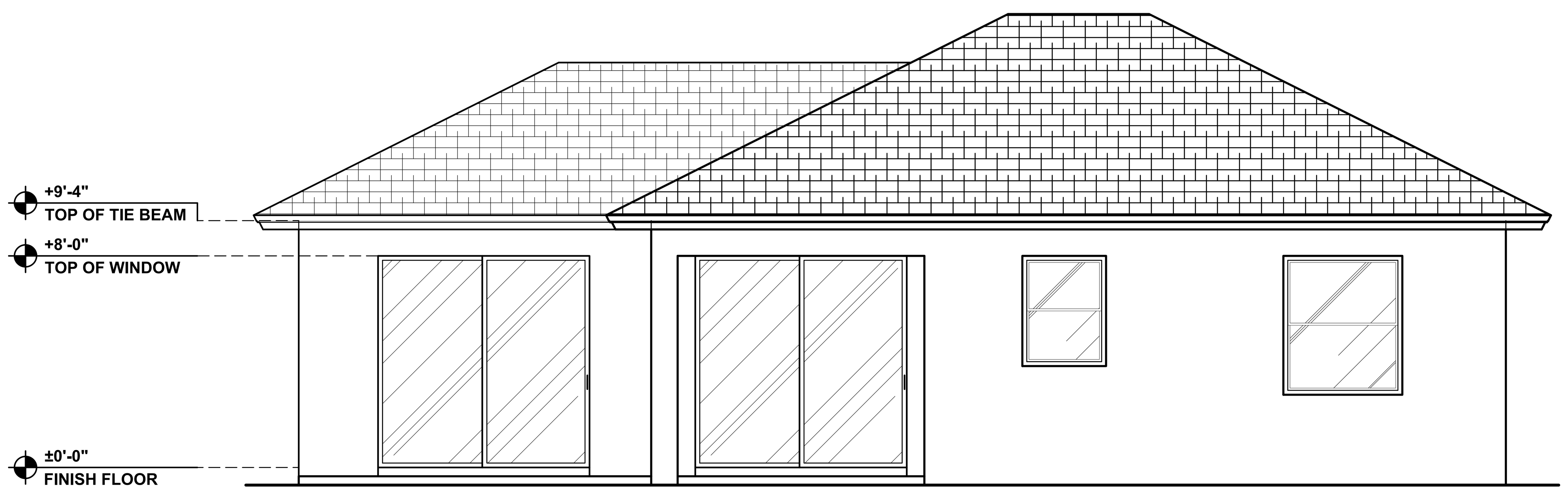
SCALE: 1/4"=1'-0"



1
A-3

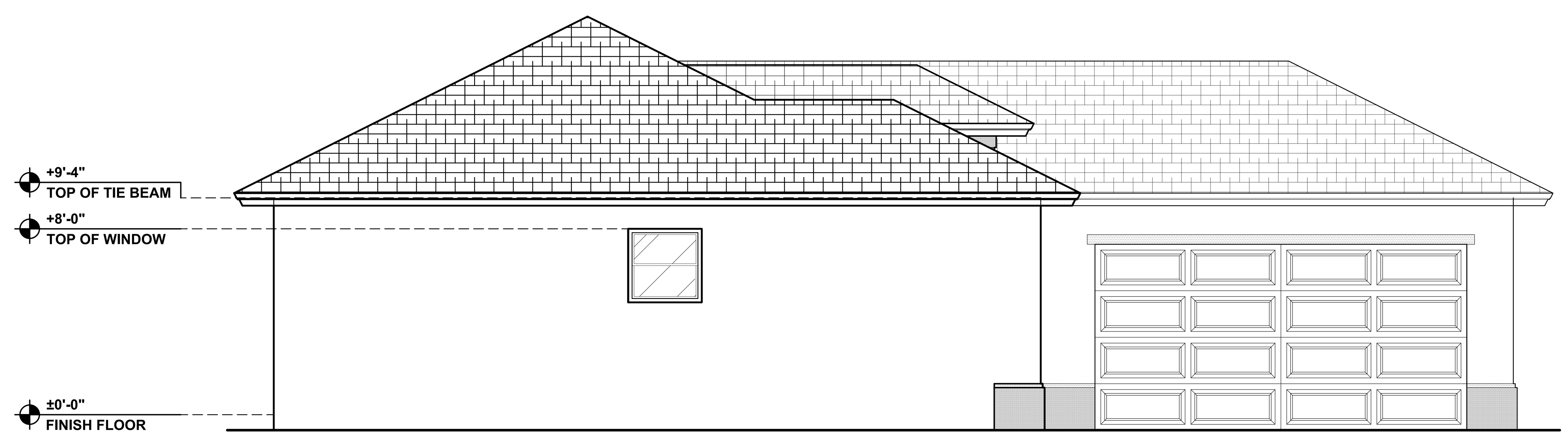
WALL SECTION TYP.

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



REAR ELEVATION

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



LEFT SIDE ELEVATION

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

JC Robalino INC
PLANNING & DESIGN SERVICES

REV.	DESCRIPTION

THESE CONSTRUCTION DOCUMENTS: WERE PREPARED FOR THE SOLE PURPOSE OF OBTAINING A PERMIT AND AS A CONSTRUCTION GUIDE AND ARE NOT APPROVED UNLESS SIGNED AND SEALED IN THE SPACE PROVIDED.

THE OWNER OR CONTRACTOR: SHALL BE TOTALLY RESPONSIBLE FOR THE CONSTRUCTION PHASE OF THIS PROJECT AND STRICTLY FOLLOWS THE LOCAL BUILDING CODES AND ORDINANCES. THEY SHALL ALSO NOTIFY THE ARCHITECT IN WRITING FOR ANY ERRORS, OMISSIONS, OR NON-CONFORMANCE OF SUCH CODES AND ORDINANCES IN THE CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PROJ. NAME: SINGLE FAMILY RESIDENCE
MONNA RESIDENCE
NAPLES, FL

DESCRIPTION: **ELEVATIONS**

DATE: SEPT. 18, 2020

CRONIN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NUMBER: 8597
6627 WILLOW PARK DRIVE
NAPLES, FL 34109
PHONE: 593-2157 FAX: 593-8820

I CERTIFY THAT THESE PLANS AND SPECIFICATIONS CONFORM TO LOCAL BUILDING CODE REQUIREMENTS

DEREK P. CRONIN
FLORIDA PE # 55382

SHEET No:
A-3

MASONRY WALL REINFORCEMENT NOTES

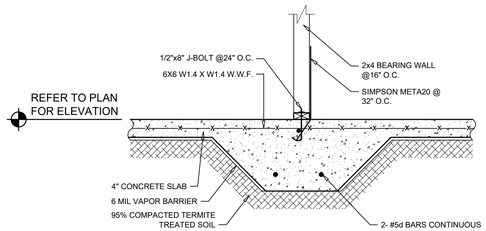
1. WALL REINFORCEMENT SHALL BE DOWELED FROM FOUNDATION AND BE CONTINUOUS THROUGH SOLID GROUTED CELLS AND BE HOOKED OVER TOP REINFORCEMENT OF UPPER BEAMS. MINIMUM LAP SPLICE SHALL BE 48 BAR DIAMETERS. FOR HORIZONTAL WALL REINFORCEMENT, @ EVERY OTHER COURSE.
2. WALL REINFORCEMENT IS AS FOLLOWS: #5 @ 48" O.C. PROVIDE 1 #5 AT ALL WALL INTERSECTIONS, CORNERS, & EACH SIDE OF OPENINGS AND 2 #5 EACH SIDE OF OPENINGS LARGER THAN 6'-0".
3. WALL SEGMENTS BELOW AND ABOVE THE OPENINGS SHALL BE REINFORCED SAME AS WALL.
4. MASONRY GROUT = 2000 PSI.
5. MASONRY WALL COMPRESSIVE STRENGTH OF f'm=1500 PSI.
6. MORTAR TYPE M OR S WITH 1900 PSI COMPRESSIVE STRENGTH.

FOUNDATION/GROUND FLOOR NOTES

1. FLOOR SLAB IS A 4" CONC. SLAB-ON-GRADE (fc=3000 psi) WITH 6 X 6 W1.4 X W1.4 W.W.F. @ MID-DEPTH (NOT SHOWN) ON WELL COMPACTED & TREATED SOIL OVER 6 MIL VAPOR BARRIER. REFER TO DETAIL. SOIL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR PER ASTM D 1557 IN LIFTS NOT TO EXCEED 12".
2. FOUNDATIONS ARE DESIGNED FOR 2000 PSF. GENERAL CONTRACTOR SHALL VERIFY THE VALIDITIY OF THIS ASSUMPTION.
3. CENTER OF LOAD SHALL COINCIDE WITH CENTER OF FOOTING U.N.O.
4. ALL CONCRETE TO HAVE A MINIMUM 3000 PSI COMPRESSIVE STRENGTH WITH THE WATER/CEMENT RATIO OF 0.5 MAXIMUM.
5. ■ INDICATES ADDITIONAL #5 IN CMU WALLS.
6. ALL REINFORCEMENT SHALL BE GRADE 60.

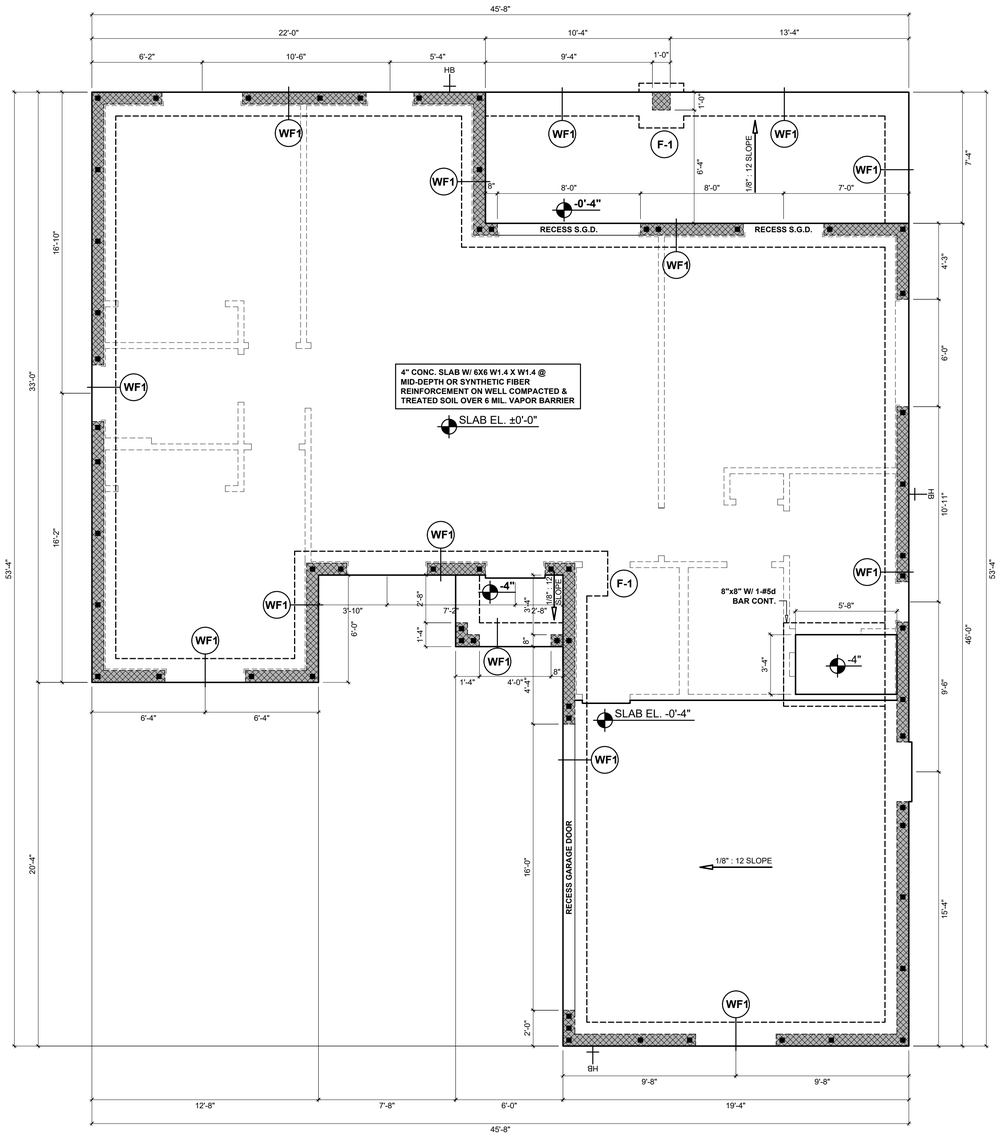
FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT	REMARKS
WF1	1'-4" x 1'-4" x CONT. MONO FOOTER	2- #5d BARS CONTINUES	
F-1	2'-6" x 2'-6" x 1'-4"	CONCRETE PAD W/ #5d BARS @ 6" O.C. EACH WAY, 3" OFF OF BOTTOM OF FOUNDATION	



FOOTING DETAIL @ BEARING WALL

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



FOUNDATION PLAN

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

JC Robalino
PLANNING & DESIGN SERVICES
C:239.216.3157 | P: 239.216.3157 | F: 239.228.4841 | jcrobalinollc@gmail.com

REV.	DESCRIPTION

PROJ. NAME:
SINGLE FAMILY RESIDENCE
MONNA RESIDENCE
NAPLES, FL

DESCRIPTION:
FOUNDATION PLAN

DATE:
SEPT. 18, 2020

CRONIN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NUMBER: 8597
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DEREK P. CRONIN
FLORIDA P.E.# 55382

SHEET No:
A-4

COMPONENT AND CLADDING DESIGN PRESSURES

Vult = 160 MPH ULTIMATE DESIGN WIND SPEED
COMPONENT AND CLADDING (BASED ON Vult) EXPOSURE C
ULTIMATE DESIGN PRESSURES (LRFD) PSF

ROOF ZONE	AREA	APPLIED DESIGN PRESSURE
ZONE 1	10 SF	+39.9 / -64.5 PSF
	20 SF	+33.9 / -62.9 PSF
	50 SF	+29.5 / -60.6 PSF
	100 SF	+26.2 / -58.9 PSF
ZONE 2	10 SF	+37.1 / -108.2 PSF
	20 SF	+33.9 / -96.6 PSF
	50 SF	+29.5 / -83.6 PSF
	100 SF	+26.2 / -75.5 PSF
ZONE 3	10 SF	+37.1 / -162.8 PSF
	20 SF	+33.9 / -142.0 PSF
	50 SF	+29.5 / -128.9 PSF
	100 SF	+26.2 / -119.1 PSF
WALL ZONE	**AREA**	**APPLIED DESIGN PRESSURE**
ZONE 4	10 SF	+64.5 / -70.0 PSF
	20 SF	+61.6 / -67.1 PSF
	50 SF	+57.7 / -63.1 PSF
	100 SF	+54.9 / -60.3 PSF
	101 + SF	+48.0 / -53.5 PSF
ZONE 5	10 SF	+64.5 / -86.4 PSF
	20 SF	+61.6 / -80.5 PSF
	50 SF	+57.7 / -72.8 PSF
	100 SF	+54.9 / -67.1 PSF
	101 + SF	+48.0 / -53.5 PSF

NOTE: ALL DOORS & WINDOWS ARE TO BE PROTECTED WITH A APPROVED IMPACT RESISTANT GLASS OR SHUTTERS.

- FOR WOOD FRAME DOUBLE TOP PLATE. TOP PLATE SPLICE REQUIREMENT MINIMUM LAP IS 36". FASTEN LAPS WITH (2) ROWS 1/4"X3" SCREWS AT 6" O.C.

COMPONENT AND CLADDING DESIGN PRESSURES

Vasd = 124 MPH NOMINAL DESIGN WIND SPEED (Vult = 160 MPH)
COMPONENT AND CLADDING (BASED ON Vasd) EXPOSURE C
DOORS & WINDOWS INCLUDED
PRESSURES CALCULATED USING (Vult x 0.6) WHICH IS EQUIVALENT TO Vasd
ALLOWABLE STRESS DESIGN PRESSURE (ASD) PSF

AREA OPENING	INTERIOR ZONE	END ZONE
0 - 10 SF	+38.8 / -42.0 PSF	+38.8 / -51.8 PSF
11 - 20 SF	+37.0 / -40.2 PSF	+37.0 / -48.3 PSF
21 - 50 SF	+34.6 / -37.8 PSF	+34.6 / -43.7 PSF
51 - 100 SF	+32.9 / -36.3 PSF	+32.9 / -40.2 PSF
101 + SF	+28.8 / -32.1 PSF	+28.8 / -32.1 PSF

Vasd = 124 MPH NOMINAL DESIGN WIND SPEED
COMPONENT AND CLADDING (BASED ON Vasd) EXPOSURE C
GARAGE DOORS DESIGN PRESSURE
ALLOWABLE STRESS DESIGN PRESSURE (ASD) PSF

AREA OPENING	
0 - 110 SF	+41.6 / -46.5 PSF
111 + SF	+38.6 / -43.4 PSF

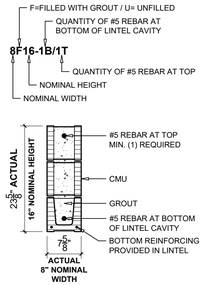
NOTE: ALL DOORS & WINDOWS ARE TO BE PROTECTED WITH A APPROVED IMPACT RESISTANT GLASS OR SHUTTERS.

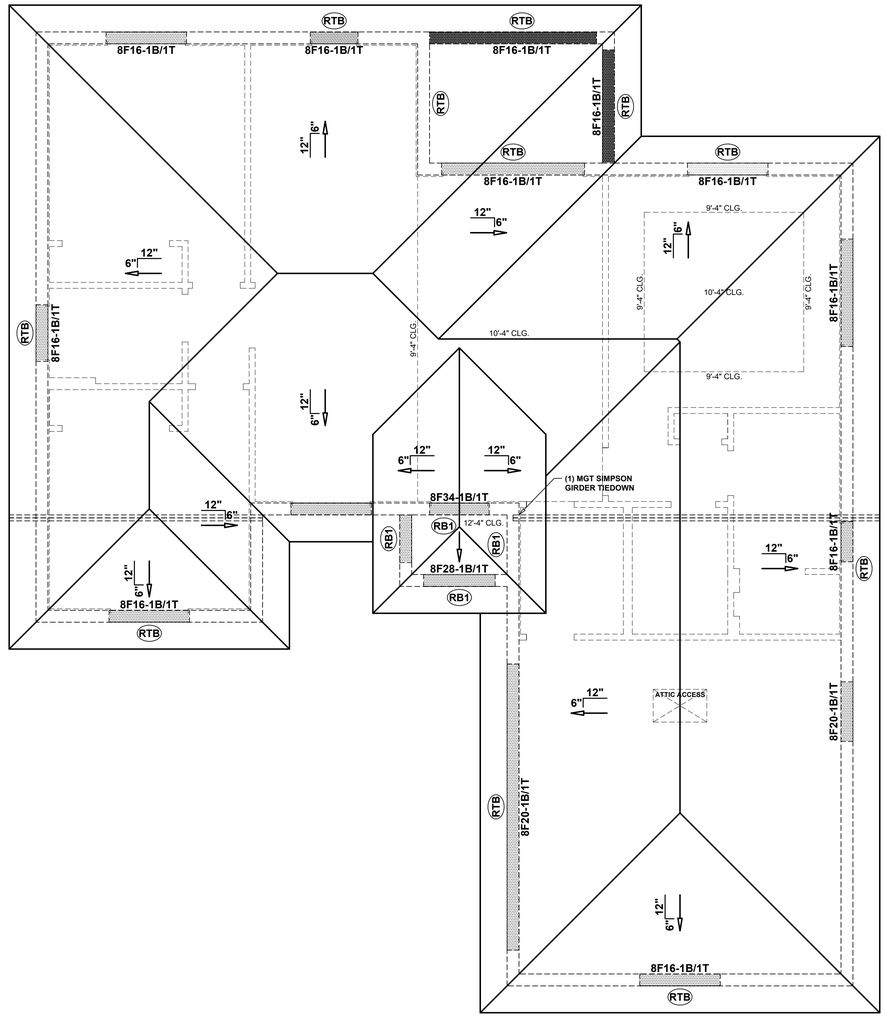
WIND LOAD REQUIREMENTS

1. THE STRUCTURAL SYSTEMS FOR THE DRAWINGS PRESENTED WERE DESIGNED PER THE LOADING PRESENTED IN THE FLORIDA BUILDING CODE 5TH EDITION. THE DESIGN WIND SPEED IS (Vult = 170 MPH.) AND (Vasd = 132 MPH).
2. IMPORTANCE FACTOR Iw = 1.0 OF THE FLORIDA BUILDING CODE 5TH EDITION.
3. EXPOSURE CATEGORY C.
4. INTERNAL PRESSURE COEFFICIENT (ASCE 7-10) +0.18 / -0.18 ENCLOSED BUILDING OPENINGS ARE PROTECTED FROM FLYING DEBRIS WITH IMPACT GLASS AND/OR SHUTTERS.

LINTEL & BOND BEAM LEGEND

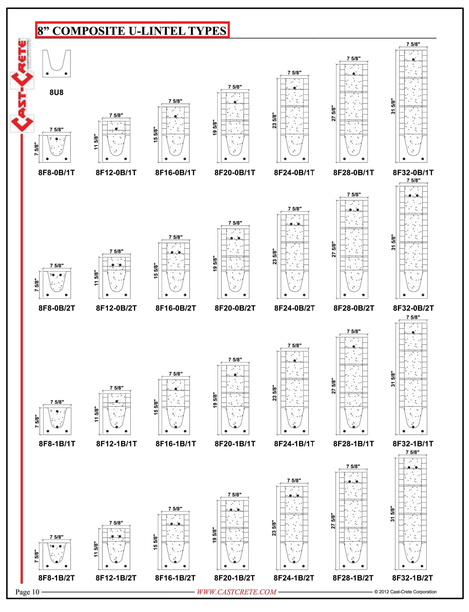
1. **BOND BEAM IS TO BE 8" KNOCK OUT BLOCK U.N.O. WITH # 5 BAR GROUT SOLID CONTINUOUS AROUND PERIMETER OF STRUCTURE.**
2. **MINIMUM 4" BEARING PER END AT LINTELS.**

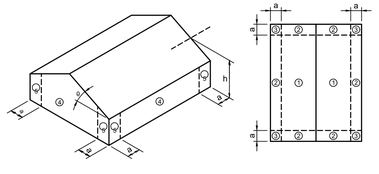


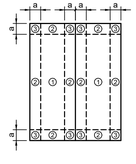


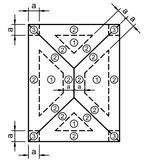
ROOF PLAN

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









COMPONENT AND CLADDING LOADING DIAGRAM FIGURE 1

BEARING LEGEND

DESCRIPTION	ELEVATION	SYMBOL
TOP OF BEARING	9'-4"	
TOP OF ENTRY BEARING	12'-4"	

ROOF TRUSSES NOTES

1. ROOF TRUSSES SHALL BE DESIGNED BY TRUSS MANUFACTURER. SHOP DRAWINGS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO PRODUCTION.
2. TRUSS MANUFACTURER SHALL PROVIDE UPLIFT & REACTION VALUES FOR INDIVIDUAL TRUSSES. REFER TO THE TRUSS DRAWING FOR LAYOUT.
3. ROOF SHEATHING SHALL CONSIST OF 15/32" MIN.PLYWD. 4-PLY CDX LAID PERPENDICULAR TO TRUSSES NAILED @ 4" O.C. ALONG BOUNDARY EDGES, 4" O.C. ALONG EDGES AND 6" O.C. INTERMEDIATE W/ 10d COMMONS.
4. BRACE TRUSSES PER T.P.I. H.I.B-91, AS REVISED
5. THE TRUSS LAYOUT BY RAYMOND BUILDING SUPPLY. (JOB: 180423096 DATE: 05.09.2018). HAS BEEN COORDINATED WITH THE FOUNDATION AND ROOF PLAN.
6. PROVIDE SIMPSON HETA20 W/16 10d X 1 1/2" FOR UPLIFTS UP TO 1890 LBS.
7. ALL CHANGES TO THE TRUSS LAYOUT SHALL BE APPROVED BY THE ENGINEER.
8. IMPROPERLY LOCATED OR MISSING TRUSS TIE DOWNS USE SIMPSON HTSM20 TWIST STRAPS AT EACH LOCATION AS REQUIRED.

ROOF NOTES

1. THIS BUILDING/STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH 6TH EDITION (2017) FLORIDA BUILDING CODE AND SECTION 1609 FOR DESIGN PRESSURES GENERATED BY A DESIGN WIND VELOCITY OF 160 MPH.
2. THE SEPARATION OF THE GARAGE AND ITS ATTIC AREA SHALL BE NOT LESS THAN 1/2 INCH GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8 INCH TYPE "X" 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"-INCH GYPSUM BOARD OR EQUIVALENT PER FBC R309.1, R309.2.
3. PROVIDE GYPSUM BOARD 1/2" MIN FOR 16" O.C. FRAMING AND FROM 1/2" TO 5/8" FOR 24" O.C. FRAMING OR 1/2" SAG-RESISTANT GYPSUM CEILING BOARD PER FBC R702.5.
4. LANAI & ENTRY CEILINGS SHALL HAVE A 1/2" CD EXTERIOR PLYWOOD LAID PERPENDICULAR TO TRUSS BOTTOM CHORDS AND NAILED W/ 10d NAILS @ 6" O.C.

BEAM SCHEDULE

MARK	ELEVATION	SIZE	BOTTOM	TOP	INTERMEDIATE	SPACING #3 TIES
RTB	9'-4"	(2)- 8" x 8" BOND BEAM W/ 1- #5d CONT. EACH				
RB1	12'-4"	(2)- 8" x 8" BOND BEAM W/ 1- #5d CONT. EACH				

JC Robalino
PLANNING & DESIGN SERVICES
C:239.216.3157 | P: 239.216.3157 | F: 239.228.4841 | jcrobalino@gmail.com

REV.	DESCRIPTION

THESE CONSTRUCTION DOCUMENTS WERE PREPARED FOR A CONSTRUCTION PERMIT AND A PERMIT WAS AS A CONSTRUCTION GUIDE AND ARE NOT APPROVED FOR CONSTRUCTION UNTIL PERMITTED.

SHALL BE TOTALLY RESPONSIBLE FOR THE CONSTRUCTION WORK STRICTLY FOLLOWING THE LOCAL BUILDING CODES AND ORDINANCES. THEY SHALL ALSO NOTIFY THE ARCHITECT IN WRITING FOR ANY ERRORS, OMISSIONS, OR NONCONFORMANCE OF SUCH CODES

THE OWNER OR CONTRACTOR

PROJ. NAME: SINGLE FAMILY RESIDENCE
MONNA RESIDENCE
NAPLES, FL

DESCRIPTION: **ROOF PLAN**

DATE: SEPT. 18, 2020

CRONIN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NUMBER: 8597
6627 WILLOW PARK DRIVE
NAPLES, FL 34109
PHONE: 593-2157 FAX: 593-8820

I CERTIFY THAT THESE PLANS AND SPECIFICATIONS CONFORM TO LOCAL BUILDING CODE REQUIREMENTS

DEREK P. CRONIN
FLORIDA PE # 55302

SHEET No:

A-5

STRUCTURAL NOTES

DESIGN CRITERIA:
THE MAIN WIND-FORCE RESISTANCE SYSTEM AND COMPONENTS AND CLADDING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 6TH EDITION (2017) TO WITHSTAND WIND PRESSURES GENERATED BY A MINIMUM BASIC WIND SPEED OF 160 M.P.H.

FOUNDATION:
THE FOUNDATION HAS BEEN DESIGNED FOR A SAFE LOAD BEARING CAPACITY OF 2000 PSF . THE CONTRACTOR SHALL VERIFY SOIL BEARING PRESSURES.

CONCRETE:
ALL CONCRETE WORK SHALL CONFORM TO SPECIFICATIONS FOR ALL STRUCTURAL CONCRETE FOR BUILDINGS (A.C.I.-301). CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.

CONCRETE CLEAR COVER:

FOUNDATIONS:	3"
BEAMS:	1.50" TO STIRRUP
SLABS NOT EXPOSED TO THE WEATHER:	0.75"
SLABS EXPOSED TO THE WEATHER:	1.50"

REINFORCING STEEL:
ALL REINFORCING STEEL BARS SHALL CONFORM TO ASTM 615 SPECIFICATIONS AND SUPPLEMENTARY REQUIREMENTS S1,FOR DEFORMED BILLET STEEL WITH 60,000 PSI MINIMUM YIELD STRENGTH. PROVIDE DOWELS IN FOUNDATIONS TO MATCH REINFORCING ABOVE.

PRE-ENGINEERED WOOD ROOF TRUSSES:
PRE-ENGINEERED WOOD ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:

L.L. TOP CHORD	20 PSF
D.L. TOP CHORD	20 PSF
D.L. BOTTOM CHORD	10 PSF

TRUSS MANUFACTURER SHALL SUBMIT SIGNED AND SEALED PLAN VIEW SHOP DRAWINGS W/ ENGINEERED PROFILES AND CALCULATIONS SHOWING ALL REQUIRED TIE DOWNS PRIOR TO GENERAL CONSTRUCTION: ALL ROOF TRUSSES SHALL BE DESIGNED FOR A MIN. BASIC WIND SPEED OF 160 M.P.H PER THE FLORIDA BUILDING CODE, 6TH EDITION (2017).

MASONRY:
SHALL CONFORM TO ASTM C-90. UNITS SHALL BE ERECTED IN INTERLOCKED RUNNING BOND PATTERN. MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270. PROVIDE GAUGE 9 HORIZONTAL JOINT REINFORCEMENT EVERY OTHER COURSE. f'm = 1500 PSI. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI & CONFORM TO ASTM C-476.

SOLID SAWN LUMBER:
TOP AND BOTTOM PLATES, SAWN LUMBER, BEAMS, HEADERS, SOLID AND BUILT UP POSTS SHALL BE #2 SOUTHERN YELLOW PINE WITH THE FOLLOWING MINIMUM PROPERTIES:

Fb = 1200 PSI
Fv = 90 PSI
E = 1.5 X 10 PSI

LAMINATED VENEER LUMBER:
L.V.L. & P.S.L. INDICATES LAMINATED LUMBER AS MANUFACTURED BY "TRUSS JOIST McMILLAN" CORPORATION. ALL DESIGN DATA FOR THIS MATERIAL DIVISION SHALL BE AS SPECIFIED BY THE MANUFACTURER - ALL ATTACHMENTS, FILLERS ETC. AND INSTALLATION PROCEDURES SHALL IN STRICT ACCORDANCE W/ THE MANUFACTURERS SPEC'S.

LINTELS:
DOOR OR WINDOW OPENINGS IN MASONRY WALLS SHALL HAVE CONCRETE LINTELS. WHERE THE HEAD OF THE OPENING IS WITHIN 16" OF THE TIE BEAM, OR SLAB, LINTELS SHALL BE POURED INTEGRAL WITH THE TIE BEAMS, OR SLAB, ADD 2 #5 BOTTOM BARS FOR EVERY 8" DROP OF THE TIE BEAM. WHERE PRECAST LINTELS ARE USED, THEY SHALL BEAR MINIMUM OF 8" ON THE SUPPORT AND HAVE THE FOLLOWING SIZE AND REINFORCEMENT:

- SPANS UP TO 6'-0" USE 8" X 8" PRECAST U LINTELS
- SPANS UP TO 12'-0" USE 8" X 8" PRE-STRESSED U LINTELS
- REINFORCE AS SHOWN

ROOF SHEATHING:
WOOD STRUCTURAL ROOF SHEATHING DIAPHRAGM SHALL BE 15/32" THICK (A.P.A. RATED) C. D. EXTERIOR INSTALLED PERPENDICULAR TO SUPPORTS AND SECURED W/ 10d NAILS AT 4" O/C ALL PANEL EDGES AND AT 6" O/C ALONG ALL INTERMEDIATE SUPPORTS - (4) PLY MATERIAL TO BE USED - SPAN RATING SHALL BE 32 /16.

WALL SHEATHING:
WALL SHEATHING DIAPHRAGM SHALL BE 15/32" TH. (A.P.A. RATED) C. D. EXT. INSTALLED PERPENDICULAR TO SUPPORTS AND SECURED W/ 8d NAILS AT 6" O/C ALL PANEL EDGES - PROVIDE 2 X 4" BLKG. BETWEEN STUDS W/ 3-1/2" FACE SET VERTICAL AT ALL PANEL EDGES - ALL INTERMEDIATE SUPPORTS SHALL BE NAILED W/ 8d NAILS AT 12" 0/C - SPAN RATING SHALL BE 32/16.

METAL FASTENERS / CONNECTORS:
ALL HANGERS, CLIPS, STRAPS, TO BE MANUFACTURED BY "SIMPSON STRONG TIE" (UNLESS NOTED OTHERWISE) - REFER TO PLAN & TIE DOWN SCHEDULE FOR ALL SPECIFIED FASTENER NUMBERS - CONSULT MFGS. CATALOG #C "WOOD CONSTRUCTION CONNECTORS" AND "HIGH WIND-RESISTANT CONST. CONNECTORS" CATALOG # C-HW - INSTALL ALL STRAPS PER MFGS. SPECIFICATIONS WITH DISTANCE OF STRAP BEING EQUAL FROM POINT OF CONN. ALL STRAPS SHALL BE Z-MAX.

BELOW CONNECTION (I.E) BEAM TO POST INTERFACE) ALL CONNECTORS SHALL HAVE ALL NAIL HOLES FILLED WITH APPROPRIATE SIZE NAILS PER SIMPSON'S SPEC'S.

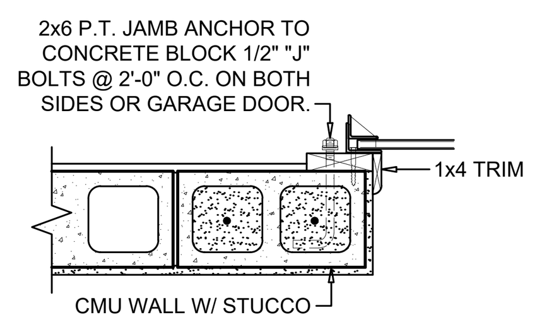
ALL FLAT STRAPS OR TWIST STRAPS SHALL BE APPLIED WITH EQUAL LENGTHS OF STRAP TO HEADER OR BEAM AND COLUMN, ETC., WHERE (2) STRAPS ARE INDICATED, APPLY ONE (1) AT EACH SIDE OF CONNECTION, FILL ALL HOLES WITH SPECIFIED NAIL COUNT.

GENERAL:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY FIELD CONDITION WHICH MAY NOT BE IN ACCORDANCE WITH DESIGN CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOB SITE CONSTRUCTION SAFETY. FOR FINISHED FLOOR ELEVATIONS, SLOPES, STEPS AND RECESSES, REFER TO ARCHITECTURAL PLANS. FOR SIZE AND LOCATION OF MECHANICAL SLEEVES AND OPENINGS, REFER TO MECHANICAL AND ARCHITECTURAL PLANS.

FORM WORK AND SHORING:
SHORES AND RE-SHORES SHALL MEET THE REQUIREMENTS AS SET FORTH IN THE CURRENT A.C.I. 347 AND A.C.I. 301 LATEST EDITIONS. FORM WORK AND SHORING SHALL BE DESIGNED BY A FLORIDA REGISTERED ENGINEER.

SLABS ON FILL:
EXTERIOR SLABS ON FILL SHALL BE 4" THICK, UNLESS OTHERWISE NOTED ON PLANS, REINFORCED WITH 6 X 6 W1.4 X W1.4 W.W.M. FILL MATERIAL UNDER SLAB SHALL BE CLEAN SAND AND/OR ROCK AND SHALL BE COMPACTED TO 95% (MIN.) OF ASTM D 1557 IN LIFTS NOT TO EXCEED 12" IN DEPTH. SLAB ON FILL SHALL BE POURED AGAINST APPROVED VAPOR BARRIER

FIBER REINFORCED CONCRETE SLABS SHALL CONTAIN SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTH SHALL BE 1/2" TO 2". DOSAGE AMOUNTS SHOULD BE FROM 0.75 TO 1.5 LBS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C1116.



GARAGE DOOR JAMB DETAIL

SCALE: N.T.S.

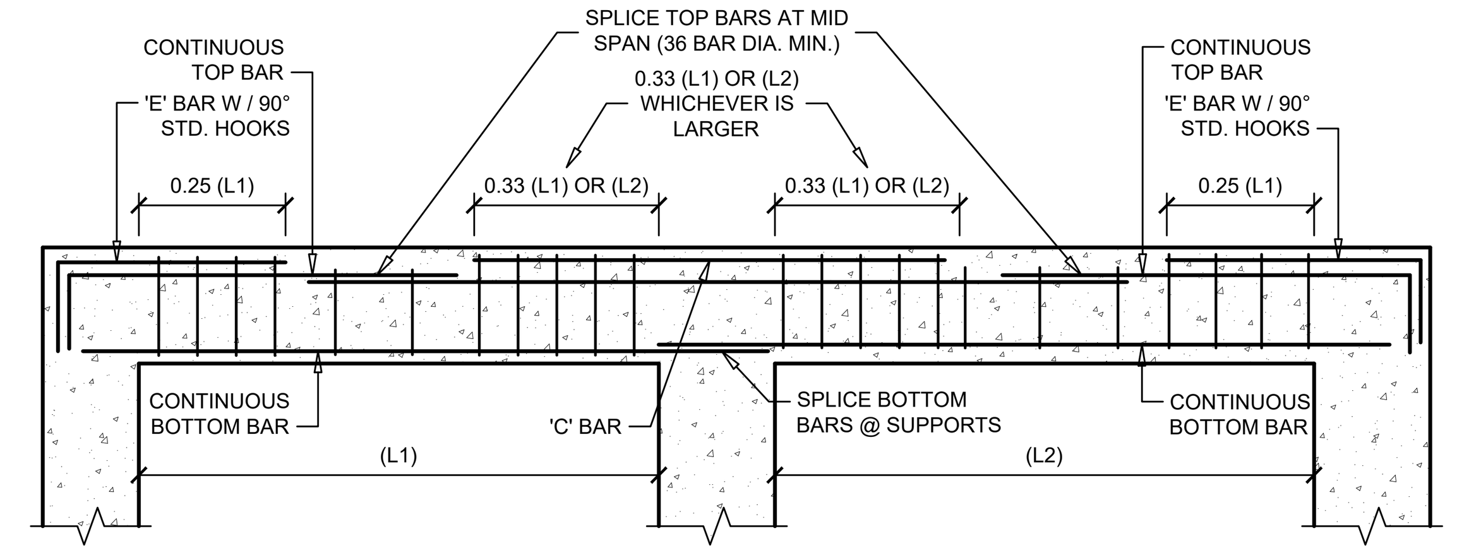
ALTERNATE WINDOW / DOOR JAM ATTACHMENT

WINDOW JAMS SHALL CONSIST OF 1X3 (MIN.) PRESSURE TREATED ATTACHED TO MASONRY WITH 3/16" X 2 1/2" TAPCONS AT 4" FROM EA. END AND 16" O.C. FOR OPENINGS UP TO 6'-8". PROVIDE 3/16" X 2 1/2" TAPCONS AT 12" O.C. FOR OPENINGS GREATER THAN 6'-8" TO 8'-0" HIGH. ANCHORS SHALL NOT BE IN THE BEVELED AREA.

SLIDING DOORS OR WINDOWS UP TO 8'-0" HIGH REQUIRING BUCKING WIDER THAN 4" UP TO 8" SHALL BE ATTACHED TO THE MASONRY WALL WITH (2) ROWS OF 3/16" X 2 1/2" AT 16" O.C. FOR 1X BUCKS AND 1/4" X 3 1/2" AT 16" O.C. FOR 2X BUCKS.

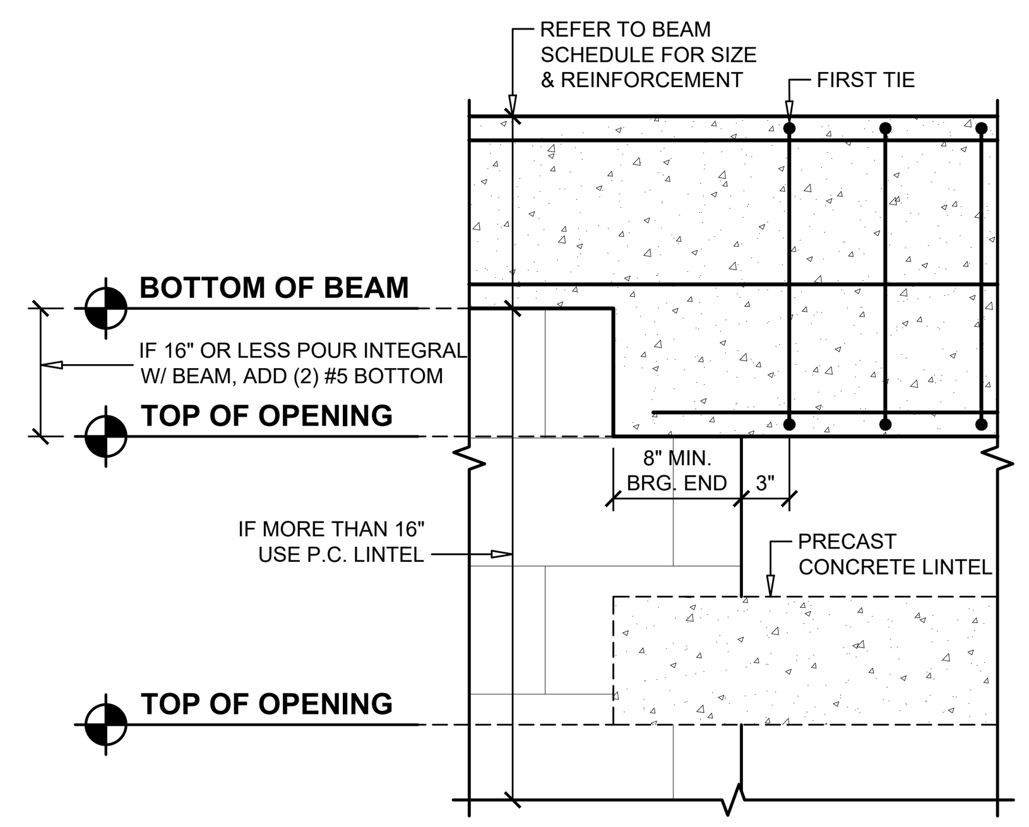
WINDOW ATTACHMENT SHALL BE PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE ATTACHED DIRECTLY TO THE MASONRY WALL THROUGH THE BUCKING IF USING 1" THICK BUCKSTRIPS.

MASONRY CELLS ON EACH SIDE OF THE OPENING SHALL BE FILLED SOLID WITH 1#5 REBAR EACH CELL IN ACCORDANCE WITH THE MASONRY NOTES.



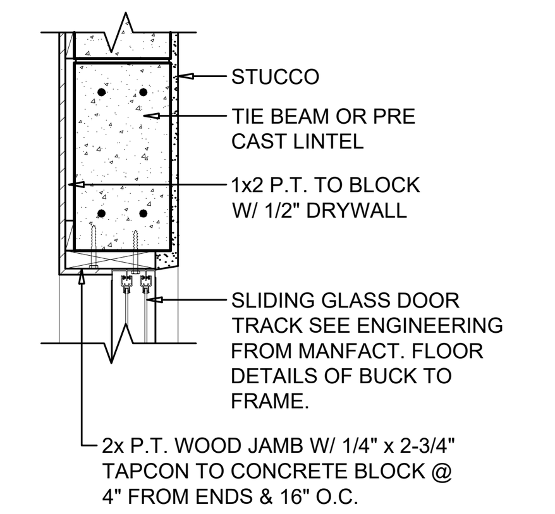
BEAM BAR DIAGRAM

SCALE: N.T.S.



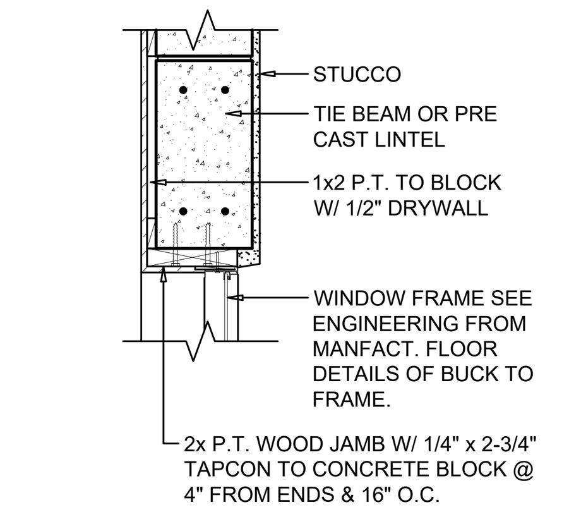
TYPICAL BEAM / LINTEL OVER OPENING

SCALE: N.T.S.



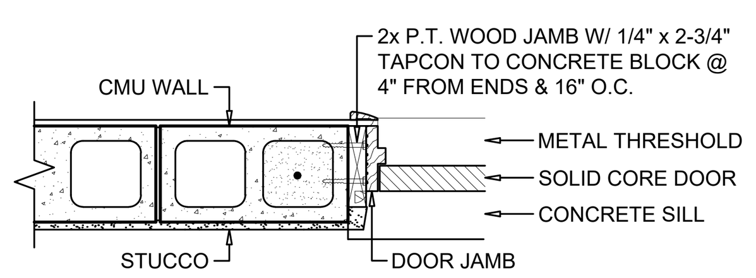
SLIDING GLASS DOOR HEAD DETAIL

SCALE: N.T.S.



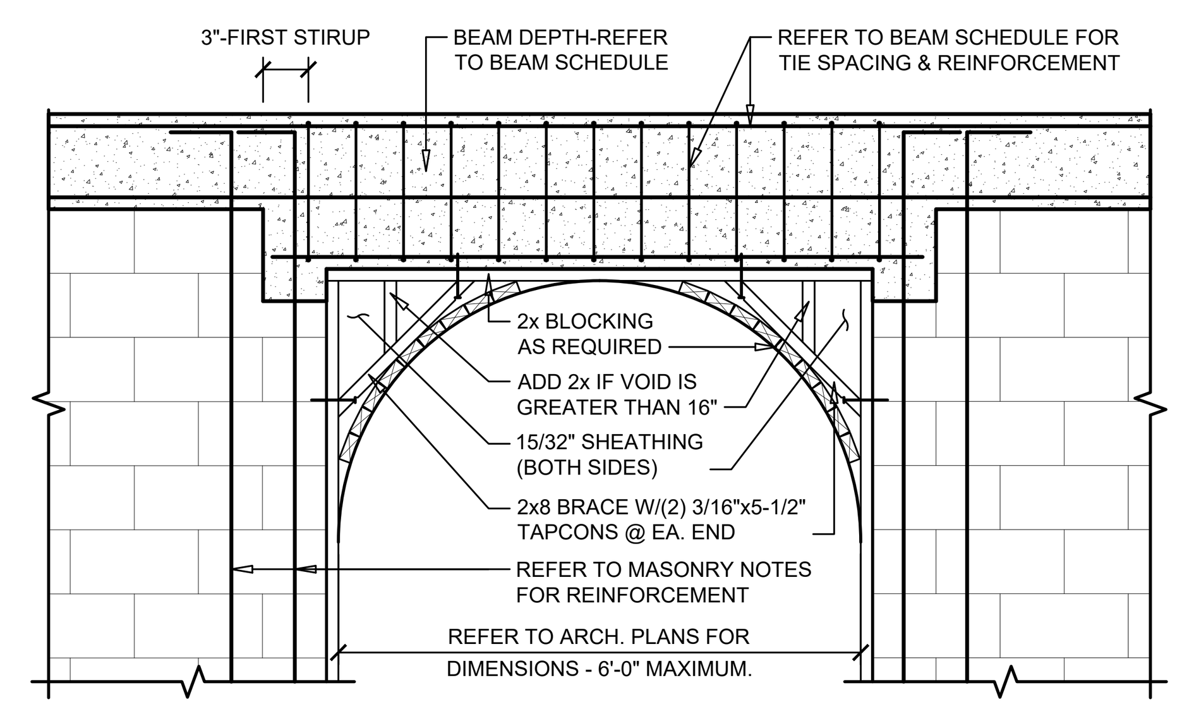
WINDOW HEAD DETAIL

SCALE: N.T.S.



DOOR JAMB TO BLOCK DETAIL

SCALE: N.T.S.



TYPICAL WOOD FRAME ARCH DETAIL

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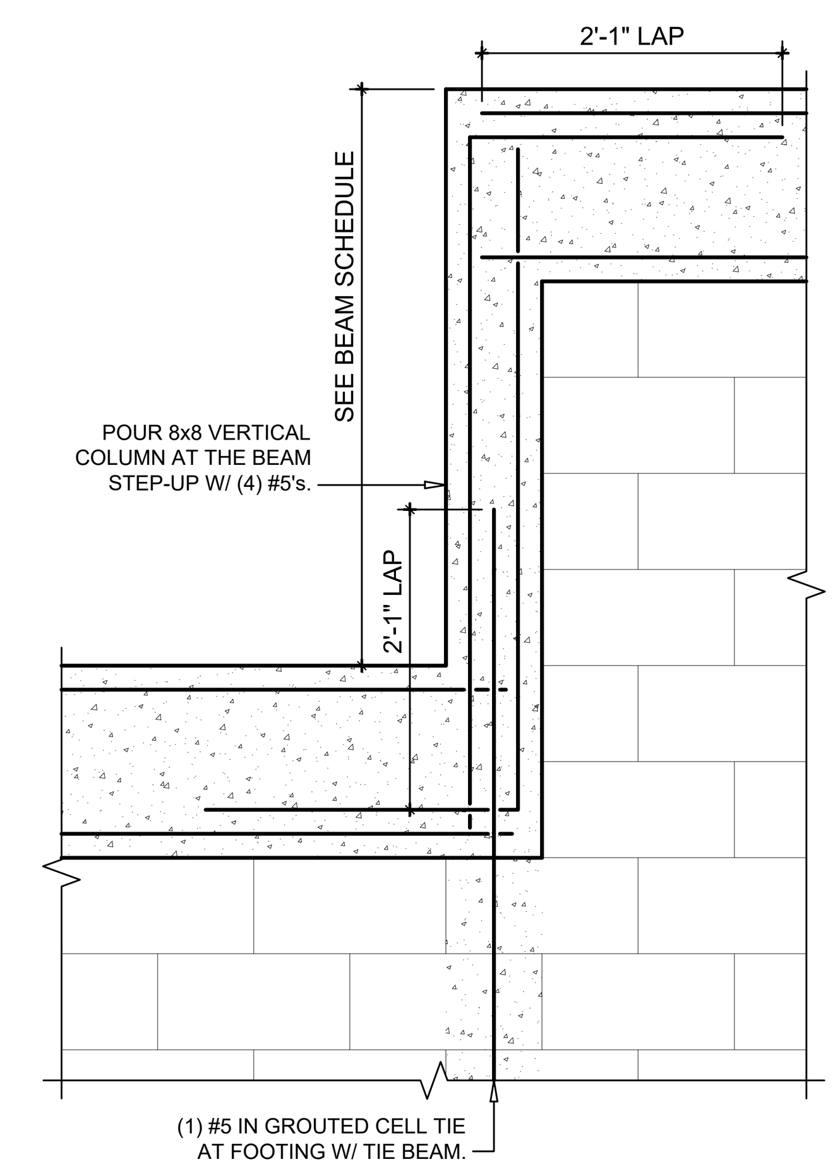
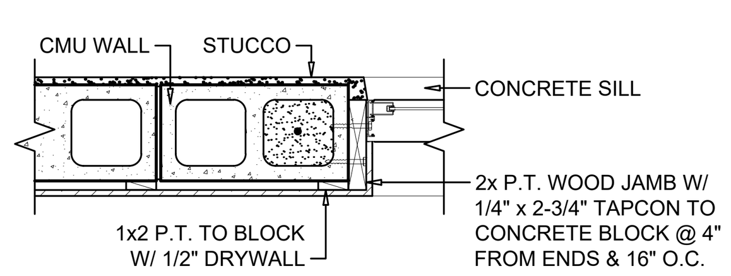


STEP-UP TIE BEAM DETAIL

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



SLIDING GLASS DOOR JAMB DETAIL

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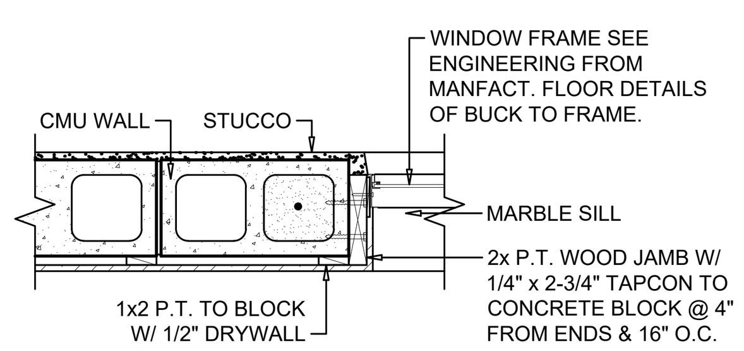

WINDOW JAMB DETAIL

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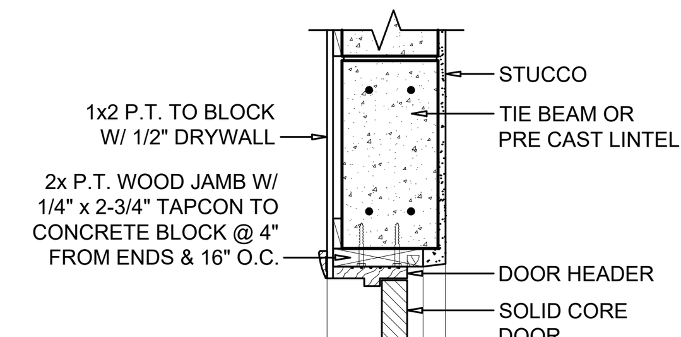
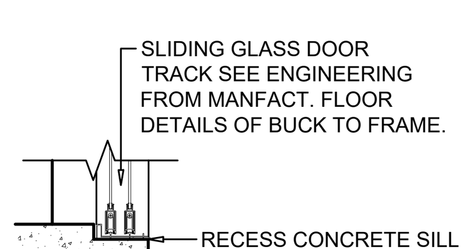


DOOR HEAD DETAIL

SCALE: N.T.S.



SLIDING GLASS DOOR SILL DETAIL

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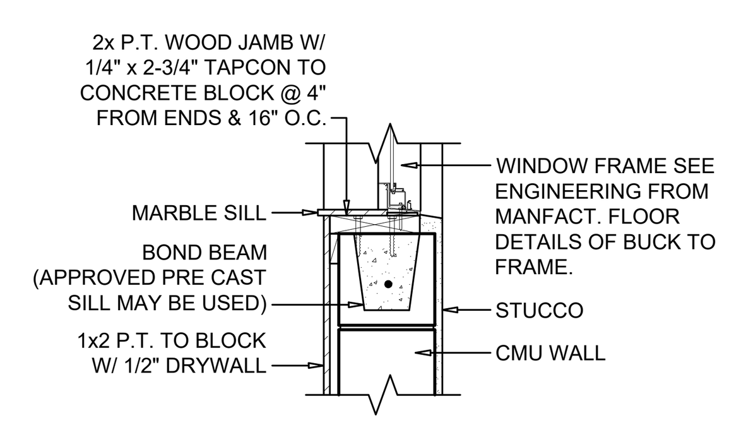

WINDOW SILL DETAIL

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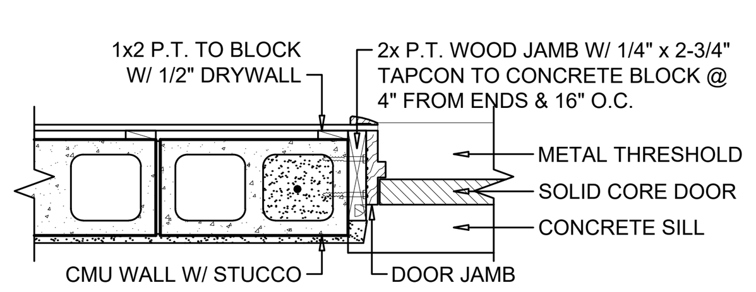
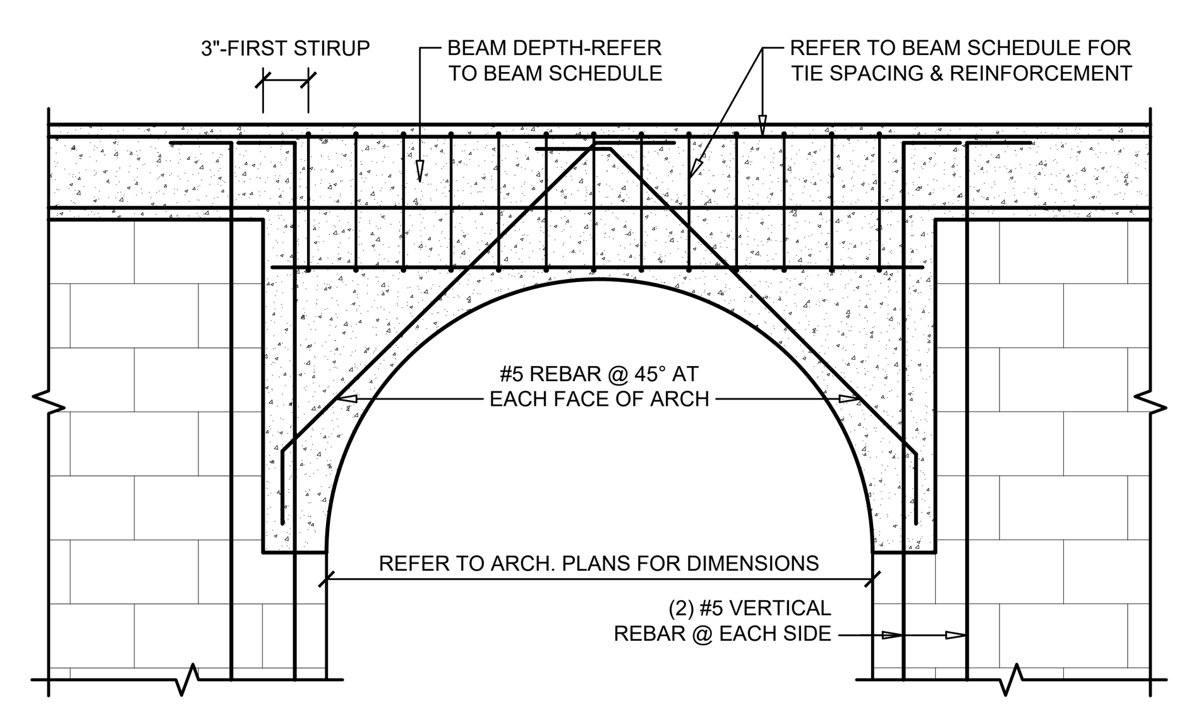


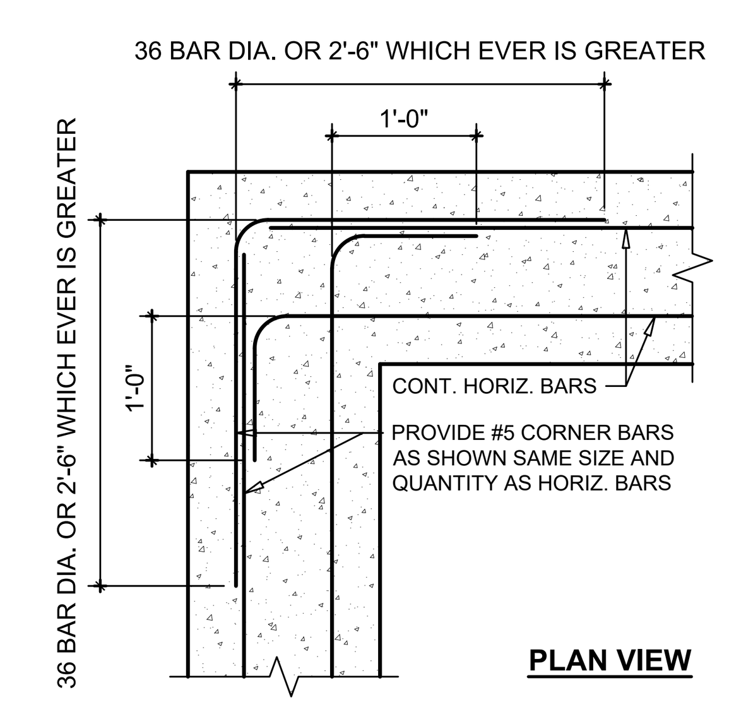
DOOR JAMB TO BLOCK DETAIL

SCALE: N.T.S.



TYPICAL ARCH DETAIL

SCALE: N.T.S.



DETAIL FOR FOOTINGS, TIE BEAMS, AND WALLS (TYP.)

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

PLANNING & DESIGN SERVICES

REV.	DESCRIPTION

PROJ. NAME: SINGLE FAMILY RESIDENCE
MONNA RESIDENCE
NAPLES, FL

DESCRIPTION: DETAILS

DATE: SEPT. 18, 2020

CRONIN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NUMBER: 8597
6627 WILLOW PARK DRIVE
NAPLES, FL 34109
PHONE: 593-2157 FAX: 593-8820

I CERTIFY THAT THESE PLANS AND SPECIFICATIONS CONFORM TO LOCAL BUILDING CODE REQUIREMENTS

DEREK P. CRONIN
FLORIDA PE # 55382

SHEET No:
A-6

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
$	SWITCH SINGLE POLE
$3	3 WAY SWITCH
$4	4 WAY SWITCH
$D	INCANDESCENT LIGHT DIMMER AND SWITCH
	MOTION DETECTOR SENSOR
	RECESSED RESTROOM EXHAUST FAN
	WALL MOUNT LIGHTING FIXTURE
	SURFACE MOUNTED WALL SCONCE LIGHT
	CEILING MOUNT LIGHTING FIXTURE
	HANGING CEILING LIGHTING FIXTURE
	RECESSED LIGHTING FIXTURE
	VAPOR PROOF RECESSED LIGHTING FIXTURE
	EXTERIOR FLOOD LIGHT FIXTURE
	FLUORESCENT LIGHTING STRIP FIXTURE
	FLUORESCENT WRAP AROUND LIGHTING FIXTURE
	2'x2' PARABOLIC RECESSED LIGHTING FIXTURE
	2'x2' ACRYLIC RECESSED LIGHTING FIXTURE
	2'x4' PARABOLIC RECESSED LIGHTING FIXTURE
	2'x4' ACRYLIC RECESSED LIGHTING FIXTURE
	CEILING FAN / CEILING FAN WITH LIGHT KIT
	EXIT LIGHTING FIXTURE
	EMERGENCY LIGHTING FIXTURE
	EXIT & EMERGENCY COMBINATION LIGHTING FIXTURE
	EXIT LIGHTING FIXTURE DIRECTIONAL CHEVRONS
	CEILING MOUNTED SMOKE DETECTOR
	ELECTRICAL PANEL SURFACE MOUNT
	DUPLEX RECEPTACLE 125V 20A
	1/2 SWITCHED DUPLEX RECEPTACLE 125V 15A (RESIDENTIAL)
WP/GFI	DUPLEX RECEPTACLE 125V 20A GROUND FAULT CIRCUIT INTERRUPT & WATERPROOF COVER
GFI	DUPLEX RECEPTACLE 125V 20A GROUND FAULT CIRCUIT INTERRUPT
FL	DUPLEX FLOOR RECEPTACLE 125V 20A
CLG	DUPLEX CEILING MOUNTED RECEPTACLE 125V 20A
	208/240 VOLT RECEPTACLE 4WIRE
	CEILING MOUNTED JUNCTION / OUTLET BOX
	TELEPHONE OUTLET
	DATA OUTLET
	TELEVISION OUTLET
	DOOR BELL
	MOTOR
	MOTOR DISCONNECT SWITCH
	ELECTRICAL METER

ELECTRICAL NOTES

IT IS THE INTENT OF THE DESIGNER THAT THE ELECTRICAL SUBCONTRACTOR IS TO BID AND INSTALL ALL ELECTRICAL ITEMS AS REQUIRED PER APPLICABLE ELECTRICAL BUILDING CODES.

1. ALL EXTERIOR OUTLETS AND OUTLETS IN KITCHEN, BATHROOMS AND UTILITY TO BE ON GFI CIRCUITS.
2. VERIFY POWER HOOK UP LOCATION AND TYPE OF SERVICE (UNDERGROUND OR OVERHEAD) WITH RESPECT TO SUBDIVISION REQUIREMENTS.
3. ALL SMOKE DETECTORS ARE TO BE HARD WIRED AND INTERCONNECTED WITH BATTERY BACKUP.
4. ALL FIXTURES SHALL BE APPROVED BY THE OWNER PRIOR TO PURCHASE AND INSTALLATION.
5. ALL 120V, SINGLE PHASE, 15 AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN ALL LIVING AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT

PANEL "A"

EQUAL TO: SQ. "D" QO142M200 — VOLTAGE: 120/240V, 1Ø, 3W
TYPE: LOADCENTER — MAINS: 200A
MOUNTING: FLUSH — TYPE MAINS: MB

CIR. NO	IDENTIFICATION	"A" VA	"B" VA	TRIP AMPS	POLE	WIRE	COND	COND	WIRE	POLE	TRIP AMPS	"A" VA	"B" VA	IDENTIFICATION	CIR. NO
1	* AHU-1	-		60	2	6	1"	3/4"	8	2	50	-		RANGE	2
3	* AHU-1		-	60	-	6	-	-	8	-	50		-	RANGE	4
5	* CU-1 (2.5 TON)	-		50	2	8	3/4"	1/2"	10	2	30			DRYER	6
7	* CU-1		-	50	-	8	-	-	10	-	30			DRYER	8
9	REFRIGERATOR	-		20	1	12	1/2"	1/2"	12	1	20	-		WASHER	10
11	DISPOSAL		-	20	1	12	1/2"	1/2"	12	1	20		-	LAUNDRY	12
13	KITCHEN RECEPTACLES	-		20	1	12	1/2"	1/2"	12	1	20	-		DISHWASHER	14
15	KITCHEN RECEPTACLES		-	20	1	12	1/2"	1/2"	12	1	20		-	GARAGE	16
17	MICROWAVE	-		20	1	12	1/2"	1/2"	12	1	20	-		BATHROOM 1 & 2 RCPT.	18
19	** BEDROOM 2		-	15	1	14	1/2"	1/2"	10	2	30		-	WATER HEATER	20
21	** BEDROOM 3	-		15	1	14	1/2"	-	10	-	30	-		WATER HEATER	22
23	MASTER BATH RECEPTACLES		-	20	1	12	1/2"	1/2"	14	1	15		-	** MASTER BEDROOM	24
25	GREAT ROOM	-		15	1	14	1/2"	1/2"	12	1	20	-		LANAI RECEPTACLES	26
27	** MASTER BEDROOM		-	15	1	14	1/2"	1/2"	14	1	15		-	GENERAL LIGHTING	28
29	GENERAL LIGHTING	-		15	1	14	1/2"	1/2"	14	1	15	-		GENERAL LIGHTING	30
31	GENERAL LIGHTING		-	15	1	14	1/2"						-		32
33		-										-			34
35			-										-		36
37		-										-			38
39			-										-		40
41		-										-			42
	SUB-TOTAL KVA/Ø													SUB-TOTAL KVA/Ø	

* VERIFY SIZE OF O.C.P. DEVICE W/ MANUFACTURER, MECHANICAL DRAWINGS AND FIELD VERIFICATION.
** INDICATES ARC. FAULT BREAKER.
*** VIA TIME SWITCH.

Residential Standard Calculation

by: John Sokolik — Version 7.28 — 9/25/1997

ARCHITECTURAL EDGE, INC.
3010 Scott Blvd. Suit 102
Temple, Texas 76504
P. 254.771.2054 F.254.773.2144
4/17/2017 14:35

STEP 1 Article 220.42 & 220.52

sq. ft 1270	General Lighting load	3,810 VA		
2	Small Appliance	3,000 VA		
1	Laundry circuit	1,500 VA		
	Gen.Lgt.,Sm App.& Laun. Load	8,310 VA		
		3,000 VA	@ 100%=	3,000 VA
		5,310 VA	@ 35% =	1,859 VA
		VA	@ 25% =	VA

General Lighting Demand Load 4,859 VA

STEP 2 Article 220.50 & 220.51

2.5 ton	4,400 VA	AHU 1	5kW	5,800 VA
A/C #2	VA	AHU 2	Select	VA
A/C #3	VA	AHU 3	Select	VA
A/C #4	VA	AHU 4	Select	VA
A/C #5	VA	AHU 5	Select	VA

Total Heat Load 5,800 VA
Total CU Load 4,400 VA
Greater of Heat @ 100% vs.A/C @ 100% 5,800 VA

STEP 3 Article 220.53

4,500 VA	1	Water Heater	4,500 VA
1,400 VA	1	Refrigerator	1,400 VA
600 VA		Freezer	VA
1,030 VA	1	Dishwasher	1,030 VA
690 VA	1	Disposal	690 VA
780 VA		Trash Compactor	VA
1,630 VA	1	Microwave	1,630 VA
		Central Vac	VA
340 VA	0	Mini Refrigerator	VA
400 VA	0	Range hood	VA
540 VA	0	Wine Cooler	VA
1,500 VA		Ironing Center	VA
select		Jacuzzi Tub	VA
select		Sprinkler Pump	VA
select		Well Pump	VA
select		Fountain Pump	VA
select		Elevator	VA
		Pool Equip. Panel	VA 100% Demand
	0	U.C. Ice Maker	VA No Demand
			VA No Demand

Appliance Demand Load	**6,938 VA**
Dryer Demand Load	**5,000 VA**
Range Demand Load	**8,000 VA**
Service Demand	**30,596 VA**
Demand Load	**127 A**
Neutral Demand	**73 A**

See Service Riser

☐ **Copper**

Total Appliance Load **9,250 VA**
4 or more demand @ 75% plus 100% demand loads **6,938 VA**

STEP 4 Article 220.54
Electric Clothes Dryers **5,000 VA**

STEP 5 Article 220.55
Electric Ranges **11,600 W** Col C demand **8,000 W**
Number of appliances **2**

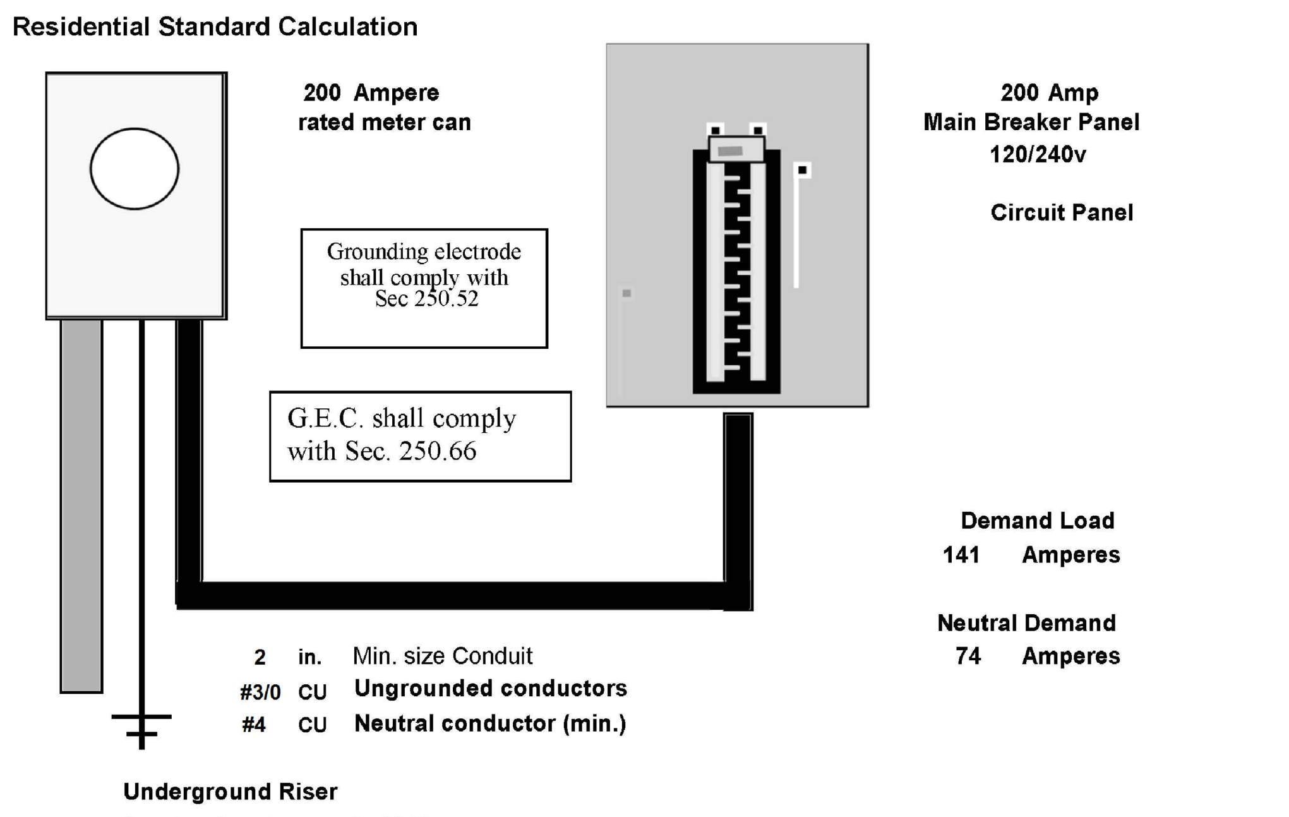
☐ Check Box for Gas Range

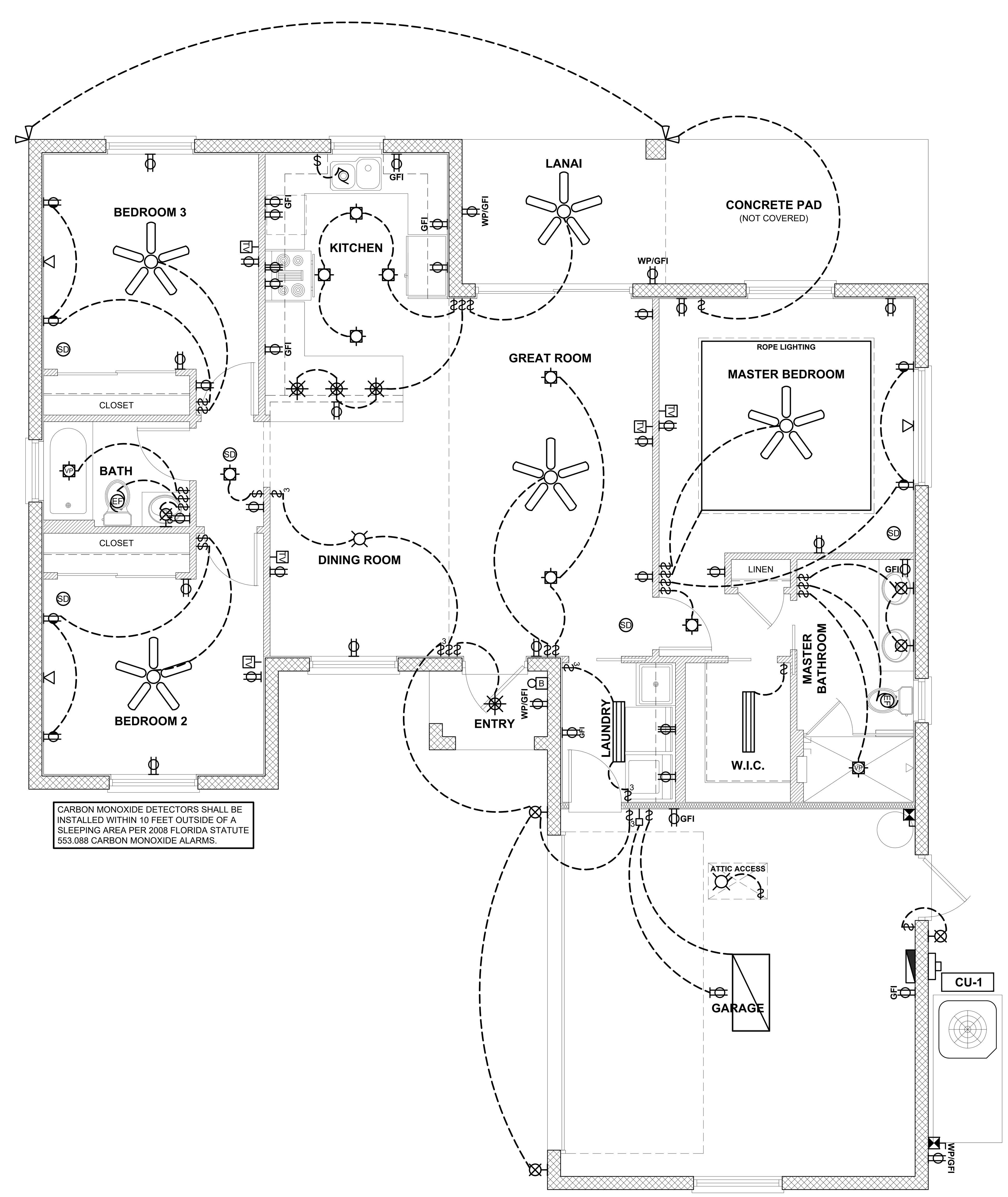
Cooktop	W	Col B demand
Cooktop		Col B demand
Oven(s)	W	Col B demand
Oven(s)		Col B demand

Number of appliances **0** Dem. Factor **0%**
Cooktop & Oven Demand Load **W**

jmp1jds@earthlink.net

Residential Standard Calculation





ELECTRICAL PLAN

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

PLANNING & DESIGN SERVICES

REV.	DESCRIPTION

THESE CONSTRUCTION DOCUMENTS: WERE PREPARED FOR THE SOLE PURPOSE OF OBTAINING A PERMIT AND AS A CONSTRUCTION GUIDE AND ARE NOT APPROVED UNLESS SIGNED AND SEALED IN THE SPACE PROVIDED.

THE OWNER OR CONTRACTOR: SHALL BE TOTALLY RESPONSIBLE FOR THE CONSTRUCTION PHASE OF THIS PROJECT AND STRICTLY FOLLOWS THE LOCAL BUILDING CODES AND ORDINANCES. THEY SHALL ALSO NOTIFY THE ARCHITECT IN WRITING FOR ANY ERRORS, OMISSIONS, OR NON-CONFORMANCE OF SUCH CODES AND ORDINANCES IN THE CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PROJ. NAME: SINGLE FAMILY RESIDENCE
MONNA RESIDENCE
NAPLES, FL

DESCRIPTION: **ELECTRICAL PLAN**

DATE: SEPT. 18, 2020

CRONIN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NUMBER: 8597
6627 WILLOW PARK DRIVE
NAPLES, FL 34109
PHONE: 593-2157 FAX: 593-8820

I CERTIFY THAT THESE PLANS AND SPECIFICATIONS CONFORM TO LOCAL BUILDING CODE REQUIREMENTS

DEREK P. CRONIN
FLORIDA PE # 55382

SHEET No:
E-1