

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 DIMENSIONS AND CONDITIONS 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 CONSTRUCTION.
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 NOTIFIED 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 8TH EDITION (2023) 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 MANUFACTURERS SPECS OTHER WALL AND FLOOR OPENINGS SHALL BE ALSO EQUIPPED BY MECHANICAL, ELECTRICAL OR SIMILAR REQUIREMENTS SHALL BE DERIVED FROM SHOP DRAWINGS, EQUIPMENT DATA, DIMENSIONS, ETC. AS REQUIRED.

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 UNDER THE BEAMS AND C.I.P. SLABS SHALL BE 10-3000 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.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.

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 FEA GRAVEL CONCRETE AND MEET ASTM C-476. PROVIDE HOOKED DOWELS AT JOINTS AND CORNERS. REINFORCE ABOVE LINE SLURRIES WITH #4 MINIMUM 2' EXTEND VERTICAL REINFORCING INTO HIGHEST CONCOURSE BEYOND MASONRY BLOCK CELLS AT WALL ENDS, CORNERS, INTERSECTIONS AND ADJACENT TO OPENINGS SHALL BE GROUT FILLED WITH IN PLACE 5" VERTICAL REINFORCING BAR THE BEAMS SHALL BE POURED AFTER THE MASONRY BLOCK WALLS BELOW ARE ON ONE SIDE CONFINE CONCRETE IN THE TIE BEAMS TO AREA REQUIRED. DO NOT USE HOT METAL LATH. REINFORCE ALL WALLS WITH #4 BARS BELOW THE SOIL LINE. SHALL HAVE FULL THICKNESS TRUE TO THE HORIZONTAL JOINT REINFORCEMENT AT EACH COURSE 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 IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PROTECTED OR PRESSURE TREATED IN ACCORDANCE WITH AITC-109

8TH EDITION (2023) FLORIDA BUILDING CODES
8TH EDITION (2023) FLORIDA BUILDING CODE: RESIDENTIAL
2017 NFPA-70 NATIONAL ELECTRICAL CODE

- OCCUPANCY/ CLASSIFICATION:
- TYPE OF CONSTRUCTION:
- BUILDING AREA:
- HEIGHT OF BUILDING:
- BUILDING HEIGHT IN STORIES:
- FLOOD ZONE:

RESIDENTIAL R-3
TYPE V (B) - UNSPRINKLERED.
TOTAL UNDER ROOF: 3,542 SF.
16'-0" MEAN HEIGHT OF ROOF
1 STORY PROVIDED
"X" - AH - 12.5'

A-1 COVER SHEET
SP SITE PLAN
A-2 FLOOR PLAN
A-3 ELEVATIONS
A-4 ELEVATIONS
A-5 FOUNDATION SLAB
A-6 ROOF PLAN
A-7 STRUCTURAL NOTES
A-8 DETAILS

E-1 ELECTRICAL PLAN
E-2 SCHEDULES, NOTES & DETAILS

REV.	DESCRIPTION
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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.

DATE: APRIL 29, 2024

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.

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

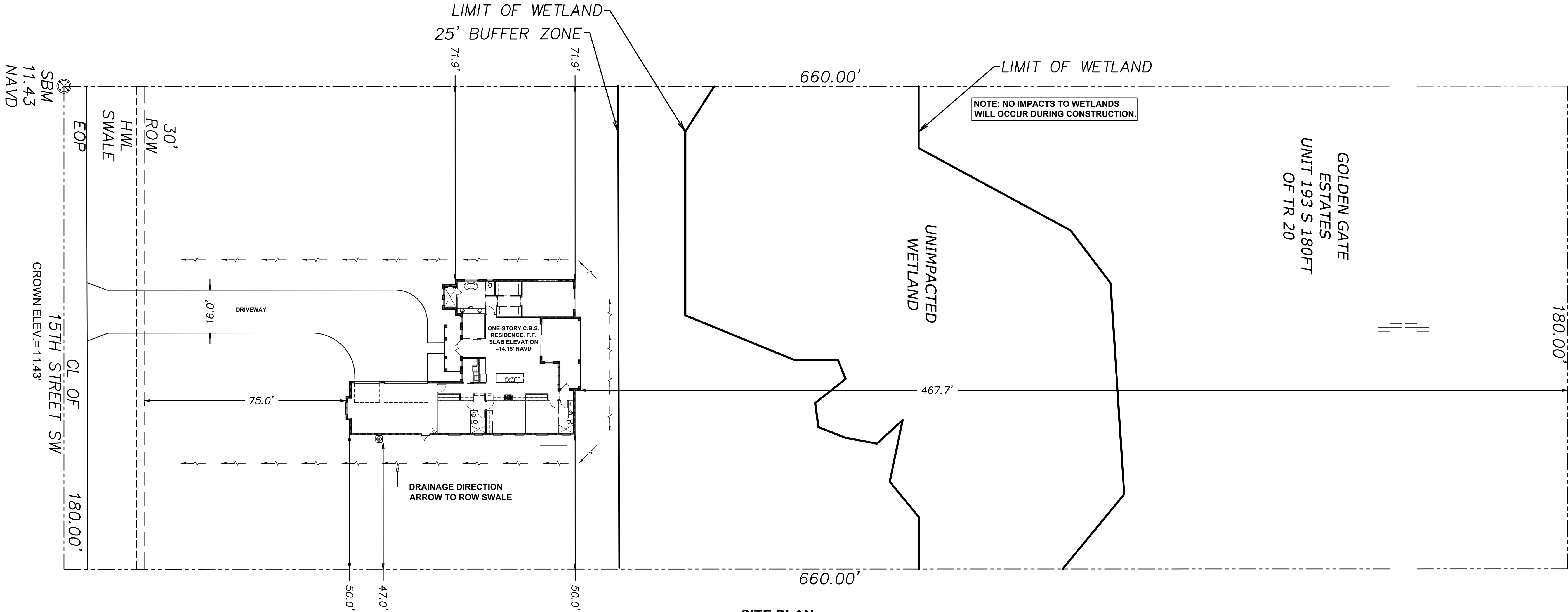
DEREK P. CRONIN
 LICENSE
 No. 55382
 *
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

DEREK P. CRONIN
 FLORIDA PE # 55382

SHEET No.

A-1

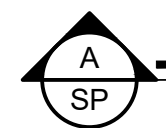
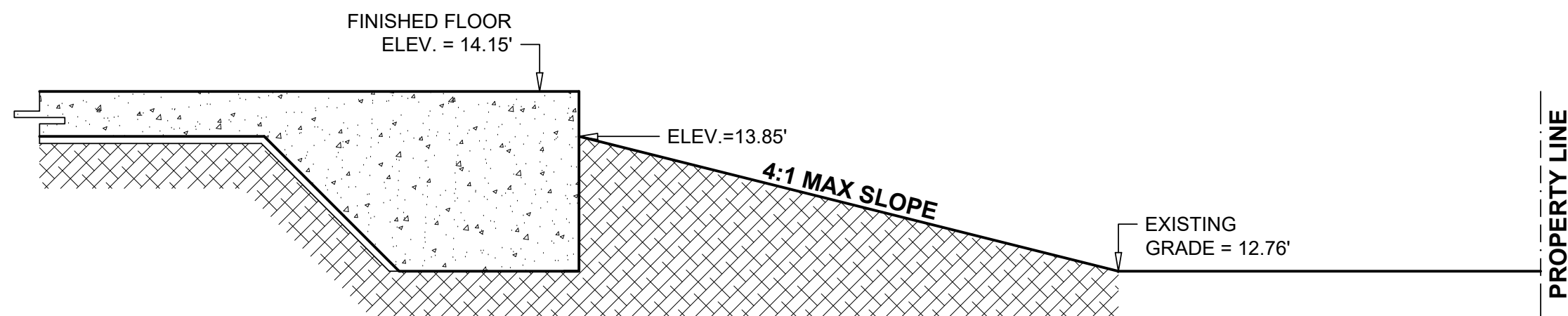




SITE PLAN

SCALE: 1"=10'

LOT IMPERVIOUS AREA TABULATION			
LOT AREA	118,800 SQ FT	100%	
SINGLE FAMILY RESIDENCE	3,542 SQ FT	2.98%	
PAVER DRIVEWAY	2,588 SQ FT	2.18%	
TOTAL IMPERVIOUS AREA	6,130 SQ FT	5.16%	
TOTAL PREVIOUS AREA	112,670 SQ FT	94.84%	



DRAINAGE SECTION (TYP.)

SCALE: N.T.S.

CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH ALL BUILDING CODES REQUIREMENTS



OFFICER A. SP. CRONIN
FLORIDA PE # 53382

CRONIN ENGINEERING, INC.

CERTIFICATE OF AUTHORIZATION NUMBER: 5597

6627 WILLOW PARK DRIVE

PHONE: 563-2157 FAX: 563-9820

THESE CONSTRUCTION DOCUMENTS, WHEN PREPARED FOR THE SITE, HAVE BEEN REVIEWED BY THE ENGINEER AND FOUND TO BE IN ACCORDANCE WITH THE BUILDING CODES AND ORDINANCES IN THE SPACE PROVIDED, UNLESS OTHERWISE NOTED.

PROJ. NAME: SINGLE FAMILY RESIDENCE

xxxx 15TH ST SW

PID 45842080007, NAPLES, FL 34117

DESCRIPTION: SITE PLAN

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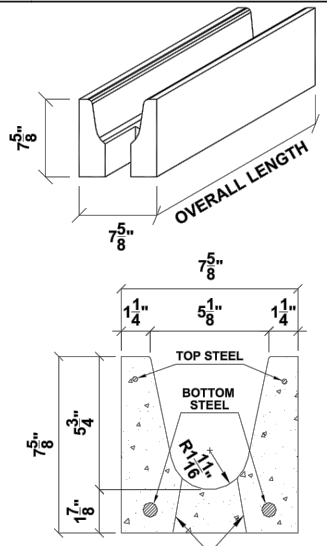
PLANNING & DESIGN SERVICES

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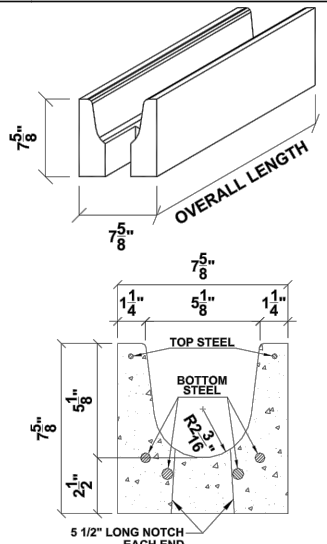
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OVERALL LENGTH	TOP STEEL	BOTTOM STEEL
3'-0" (36")	2-7/32" wire	2-4/3 rebar
3'-3" (40")	2-7/32" wire	2-4/3 rebar
3'-6" (42")	2-7/32" wire	2-4/3 rebar
4'-0" (48")	2-7/32" wire	2-4/3 rebar
4'-6" (54")	2-7/32" wire	2-4/3 rebar
4'-8" (56")	2-7/32" wire	2-4/3 rebar
5'-4" (64")	2-7/32" wire	2-4/3 rebar
5'-10" (70")	2-7/32" wire	2-4/3 rebar
6'-0" (72")	2-7/32" wire	2-4/4 rebar
6'-6" (78")	2-7/32" wire	2-4/4 rebar
6'-8" (80")	2-7/32" wire	2-4/4 rebar
7'-4" (88")	2-7/32" wire	2-4/4 rebar
7'-6" (90")	2-7/32" wire	2-4/4 rebar
8'-0" (96")	2-4/3 rebar	2-4/4 rebar
8'-8" (104")	2-4/3 rebar	2-4/4 rebar
9'-0" (112")	2-4/3 rebar	2-4/4 rebar
10'-0" (120")	2-4/3 rebar	2-4/4 rebar
10'-4" (124")	2-4/3 rebar	2-4/4 rebar
10'-8" (128")	2-4/3 rebar	2-4/4 rebar
11'-4" (136")	2-4/3 rebar	2-4/5 rebar
12'-0" (144")	2-4/3 rebar	2-4/5 rebar
13'-4" (160")	2-4/3 rebar	2-4/5 rebar
14'-0" (168")	2-4/3 rebar	2-4/5 rebar



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

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



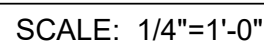
Rebar: ASTM A615 Grade 60
Wire: ASTM A510
Strand: ASTM A416 Grade 270
Concrete Strength: 6000 psi
Synthetic Fibers: 2.5 lbs/yd
Average Self Weight: 37 plf
Finish: Grey Smooth Form

<u>TABULATION</u>		
TOTAL A/C LIVING AREA	2,460	SQ FT
GARAGE	665	SQ FT
ENTRY	104	SQ FT
LANAI	313	SQ FT
TOTAL NON-A/C	<u>1,082</u>	SQ FT
TOTAL UNDER ROOF	3,542	SQ FT

WINDOW MARK	WINDOW SIZE	TYPE	REMARK
(H34)	26-1/2" x 50-5/8"	SINGLE HUNG	IMPACT RESISTANT
(H35)	26-1/2" x 63"	SINGLE HUNG	IMPACT RESISTANT
(23)	37" x 38-3/8"	SINGLE HUNG	IMPACT RESISTANT
(25)	37" x 63"	SINGLE HUNG	IMPACT RESISTANT
(35)	53-1/8" x 63"	SINGLE HUNG	IMPACT RESISTANT
(2222)	26" x 26"	FIXED WINDOW	IMPACT RESISTANT
(5050)	60" x 60"	FIXED WINDOW	IMPACT RESISTANT
(8020)	96" x 24"	FIXED WINDOW	IMPACT RESISTANT

NOTE: ALL EXTERIOR DOORS & WINDOWS TO BE WINGUARD IMPACT RESISTANT.

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.



REV.	DESCRIPTION
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BY THE CITY OF CHICAGO.

DATE: APRIL 29, 2024

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



DEREK P. CRONIN
FLORIDA PE # 55382

SHEET No:

A-2



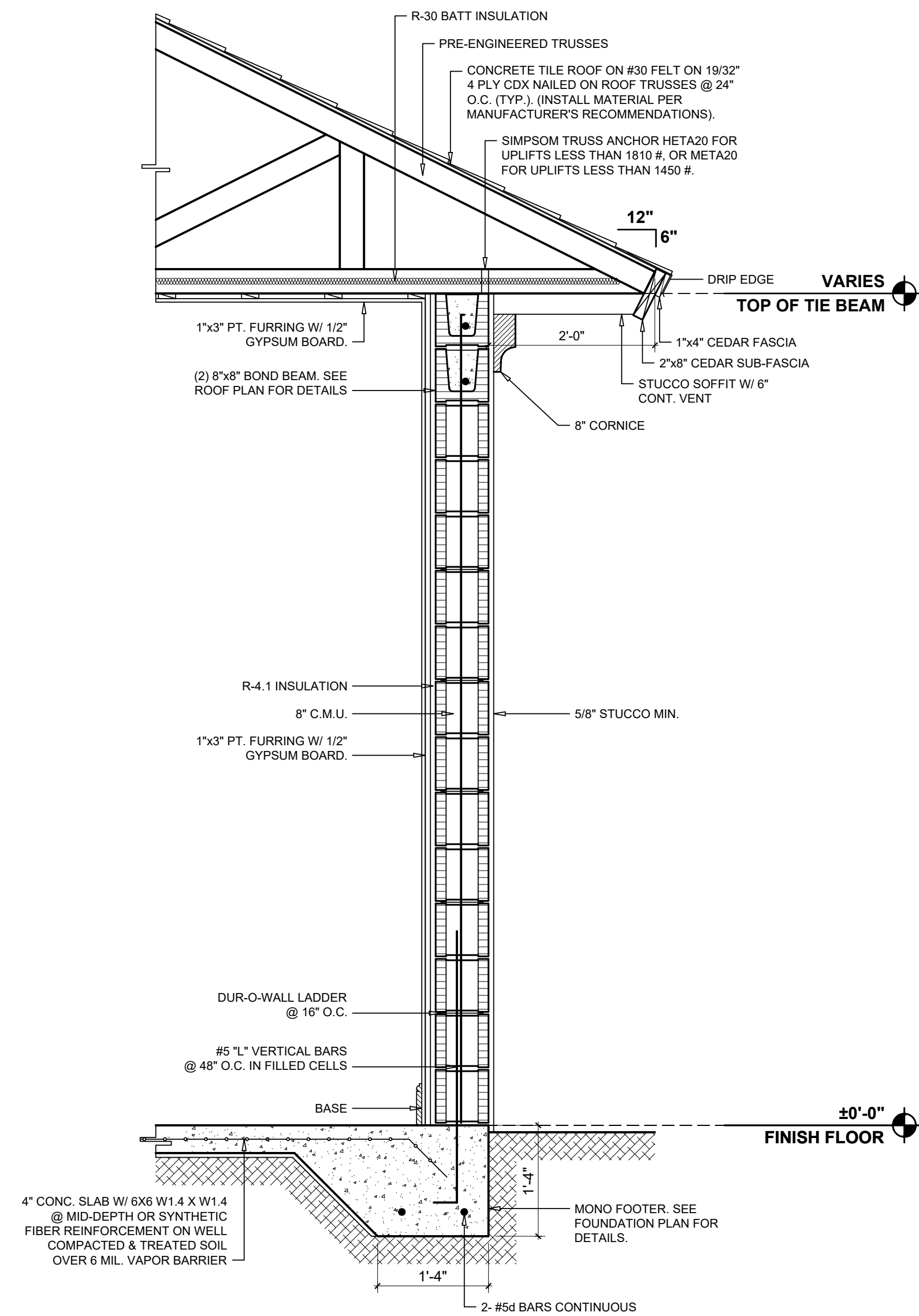
FRONT ELEVATION

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



REAR ELEVATION

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



WALL SECTION TYP.

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

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DATE: APRIL 29, 2024		

CRONIN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NUMBER: 5557
6627 WILLOW PARK DRIVE
PHONE: 563-2157 FAX: 563-9820

CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH ALL CITY, COUNTY, AND STATE BUILDING CODES AND ORDINANCES.
Derek P. Cronin
FLORIDA PROFESSIONAL ENGINEER
No. 55382
STATE OF FLORIDA
Derek P. Cronin
FLORIDA PE # 55382

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UNLESS SHOWN OTHERWISE, ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

PROJ. NAME:	SINGLE FAMILY RESIDENCE
DESCRIPTION:	xxxx 15TH ST SW PID 45842080007, NAPLES, FL 34117
DATE:	APRIL 29, 2024

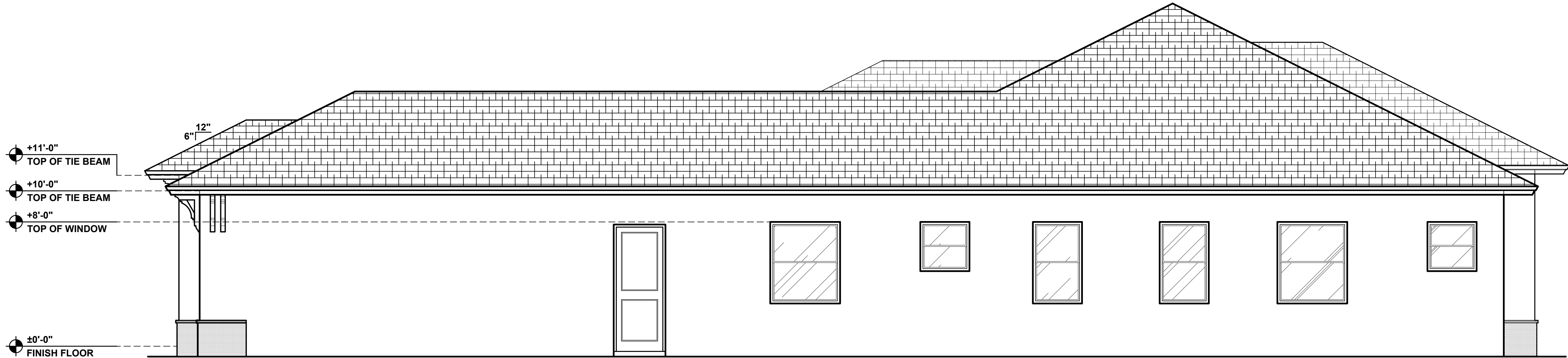
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ORDINANCES.

DEREK P. CRONIN
No. 55382
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
DEREK P. CRONIN
FLORIDA PE # 55382

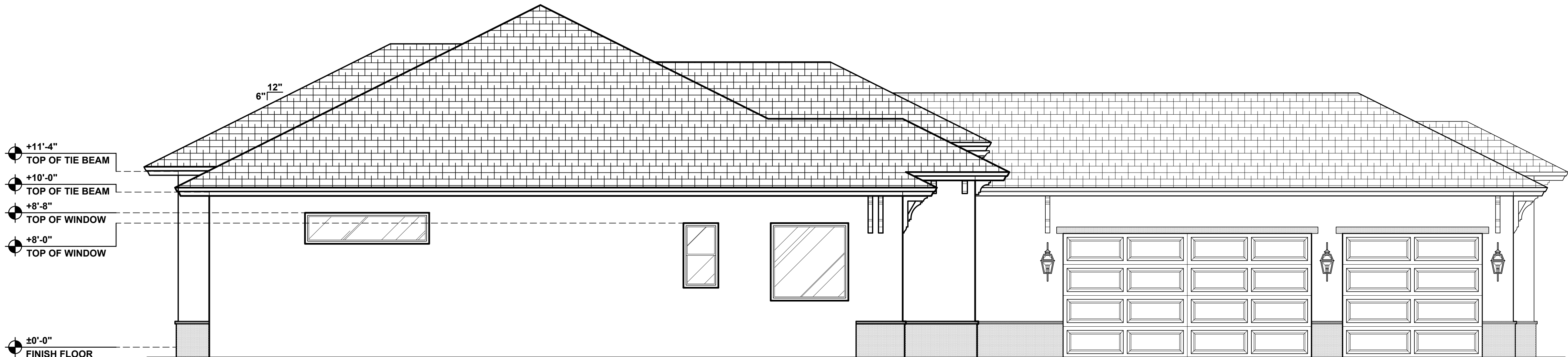
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RIGHT SIDE ELEVATION

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



LEFT SIDE ELEVATION

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

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DOCUMENTS:
PURPOSE OF OBTAINING A
PERMIT: THE WORK TO BE
DONE AND NOT APPROVED
BY THE AGENCY IS NOT
THE SPACE PROVIDED.

THE OWNER SHALL BE TOTALLY RESPONSIBLE FOR THE CONSTRUCTION PHASE AND THE OBTAINING OF THE NECESSARY PERMITS AND ORDINANCES. THEY SHALL ALSO NOTIFY THE ARCHITECT IN WRITING OF ANY CHANGES, ADDITIONS AND ORDINANCES IN THE CONSTRUCTION DOCUMENTS.

SINGLE FAMILY RESIDENCE

THESE CONSTRUCTION
PREPARED FOR THE SOLE
BY A CONSTRUCTION G
SIGNED AND SEALED I

PROJ. NAME:

DATE: APRIL 29, 2024

**CRONIN
ENGINEERING, INC.**

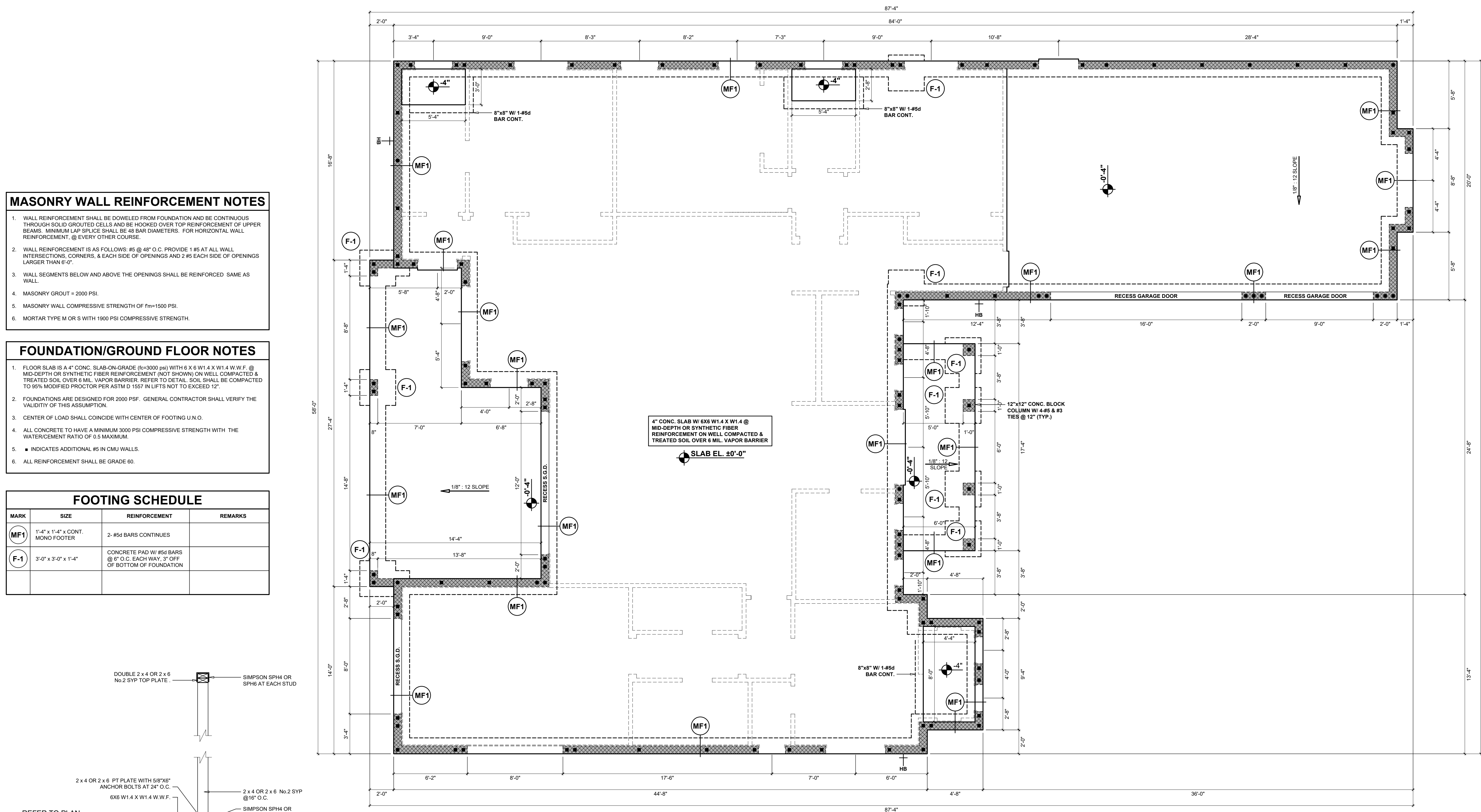
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DEREK P. CROININ
LICENSE
No. 55382
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

DEREK P. CROININ
FLORIDA PE # 55382

SHEET No:

A-5



FOUNDATION PLAN

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

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 4" CONCRETE SLAB-ON-GRADE (fc=3000 psi) WITH 6 X 6 W14 X 41 W14 W.F.F. @ MID-DEPTH OR SYNTHETIC FIBER-REINFORCEMENT (NOT SHOWN) ON WALL COMPACTED & TREATED SOIL OVER 6" M. 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 VALIDITY 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.
 - INDICATES ADDITIONAL #5 IN CMU WALLS.
6. ALL REINFORCEMENT SHALL BE GRADE 60.

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT	REMARKS
MF1	1'-4" x 1'-4" x CONT. MONO FOOTER	2- #5d BARS CONTINUES	
F-1	3'-0" x 3'-0" x 1'-4"	CONCRETE PAD W/ #5d BARS @ 1" O.C. EACH WAY, 3" OFF OF BOTTOM OF FOUNDATION	

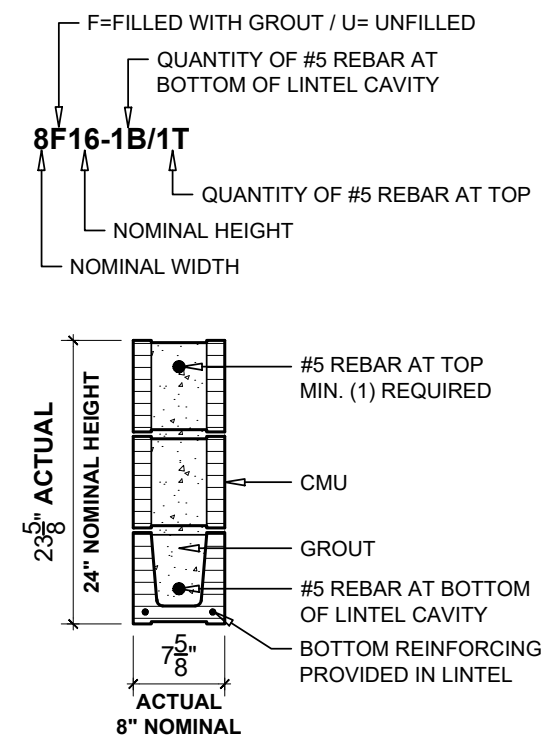
FOOTING DETAIL @ BEARING WALL

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

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 1932" MIN PLYWD, 4-PLY CDX LAID PERPENDICULAR TO TRUSSES NAILED @ 4" O.C. ALONG BOTTOM EDGES, 4" O.C. ALONG SIDES AND 6" O.C. INTERMEDIATE W/ 8d COMMONS.
4. BRACE TRUSSES PER T.P.I. H.1-B-91, AS REVISED
5. THE TRUSS LAYOUT BY RAYMOND BUILDING SUPPLY CORP. (JOB:230143799 DATE: 04.22.2024), 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.

1. THIS BUILDING/STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH 8TH EDITION (2023) 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 BOTH 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 GARAGE 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. LANA1 & ENTRY CEILINGS SHALL HAVE A 1/2" CD EXTERIOR PLYWOOD LAMB PERPENDICULAR TO TRUSS BOTTOM CHORDS AND NAILED W/ 10d NAILS @ 6" O.C.

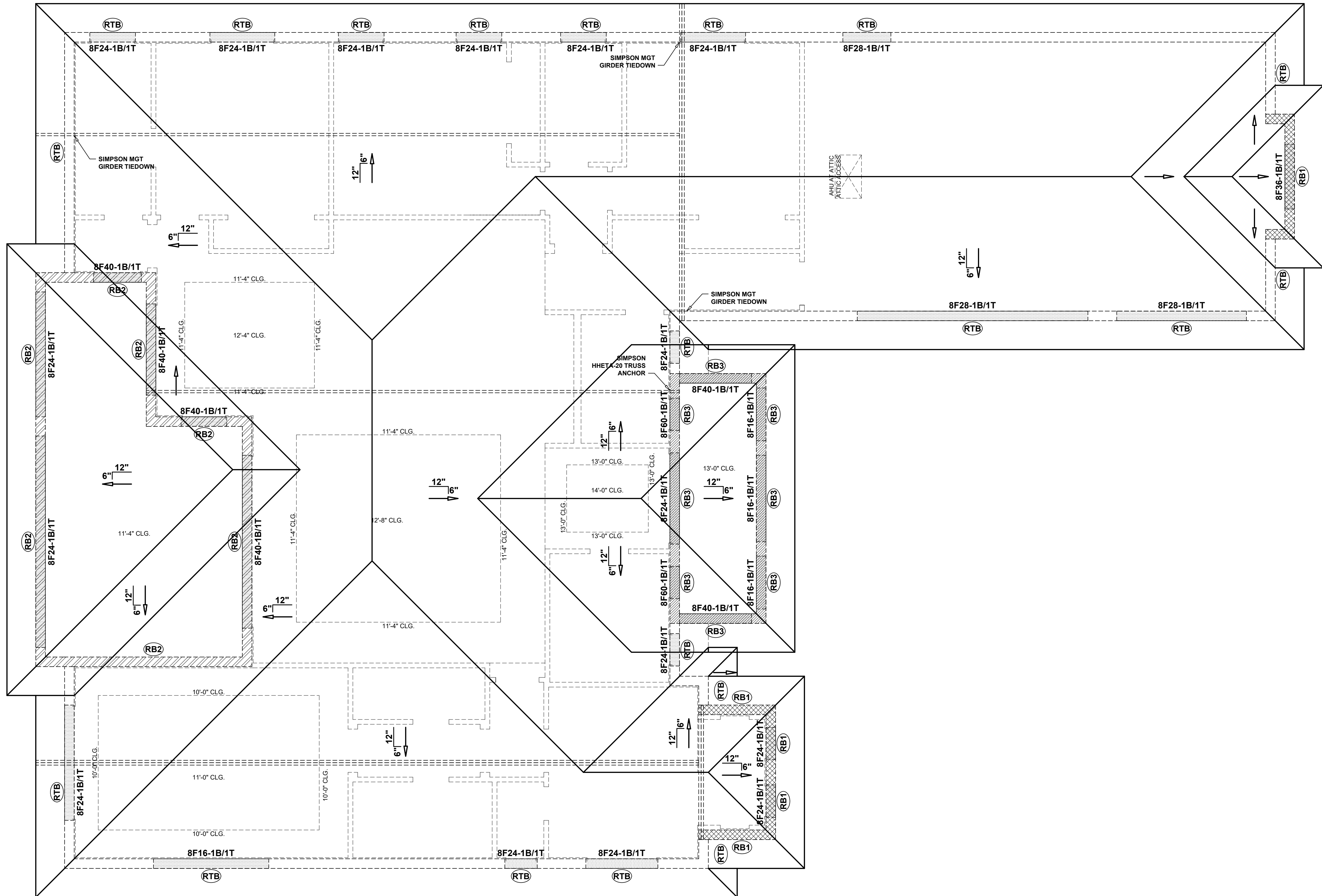
1. BOND BEAM IS TO BE 8" KNOCK OUT BLOCK U.N.O. WITH # 5 BAR GROUT SOLID CONTINUOUS AROUND PERIMETER OF STRUCTURE.
2. MINIMUM 4" BEARING PER END AT LINTELS.



The image displays a series of 24 technical drawings of U-shaped concrete culverts, arranged in 4 rows and 6 columns. Each drawing shows a cross-section of a culvert with a U-shaped profile. The drawings are labeled with codes like 8U8, 8F12-0B/1T, 8F16-0B/1T, 8F20-0B/1T, 8F24-0B/1T, 8F28-0B/1T, 8F32-0B/1T, 8F8-0B/2T, 8F12-0B/2T, 8F16-0B/2T, 8F20-0B/2T, 8F24-0B/2T, 8F28-0B/2T, 8F32-0B/2T, 8F8-1B/1T, 8F12-1B/1T, 8F16-1B/1T, 8F20-1B/1T, 8F24-1B/1T, 8F28-1B/1T, 8F32-1B/1T, 8F8-1B/2T, 8F12-1B/2T, 8F16-1B/2T, 8F20-1B/2T, 8F24-1B/2T, 8F28-1B/2T, and 8F32-1B/2T. Each drawing includes dimensions for the top width, side slope, and bottom width. The drawings are arranged in a grid with a red vertical line on the left side.

MARK	ELEVATION	SIZE	BOTTOM	TOP	INTERMEDIATE	SPACING #3 TIES
(RTB)	10'-0"	(2)- 8" x 8" BOND BEAM W/ 1- #5d CONT. EACH				
(RB1)	11'-0"	(2)- 8" x 8" BOND BEAM W/ 1- #5d CONT. EACH				
(RB2)	11'-4"	(2)- 8" x 8" BOND BEAM W/ 1- #5d CONT. EACH				
(RB3)	13'-0"	(2)- 8" x 8" BOND BEAM W/ 1- #5d CONT. EACH				

DESCRIPTION	ELEVATION	SYMBOL
TOP OF BEARING	10'-0"	
TOP OF BEARING	11'-0"	
TOP OF BEARING	11'-4"	
TOP OF ENTRY BEARING	13'-0"	



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

REV.	DESCRIPTION
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RELATED DOCUMENTS ARE
INSTRUMENTS OF JC ROBALINO,
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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.

DATE: APRIL 29, 2024

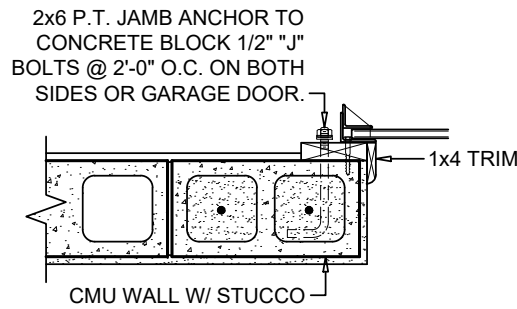
CRONIN
ENGINEERING, INC.
CERTIFICATE OF
AUTHORIZATION NUMBER: 8597

6627 WILLOW PARK DRIVE
NAPLES, FL 34109
PHONE: 593-2157 FAX: 593-8820

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

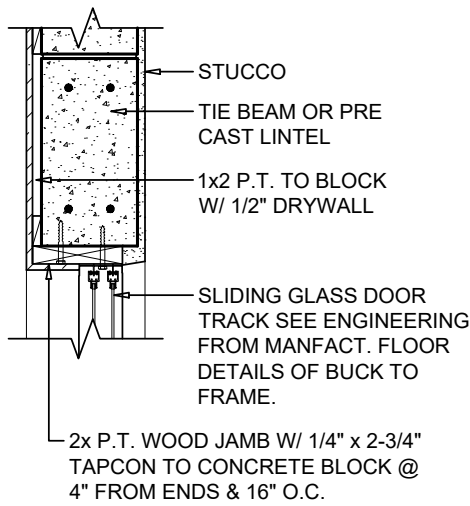
DEREK P. CRONIN
 LICENSE
 No. 55382
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

DEREK P. CRONIN
 FLORIDA PE # 55382



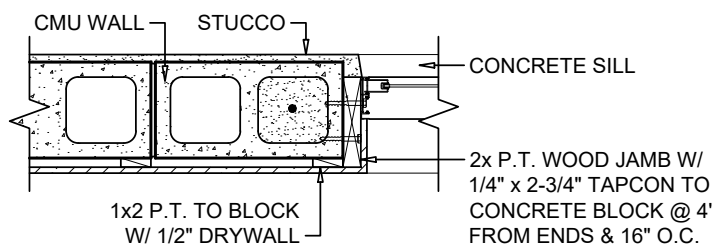
GARAGE DOOR JAMB DETAIL

SCALE: N.T.S.



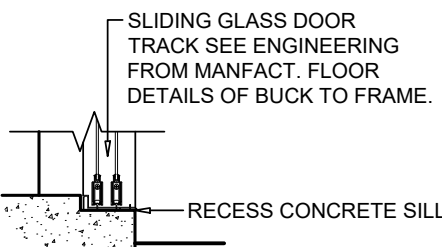
SLIDING GLASS DOOR HEAD DETAIL

SCALE: N.T.S.



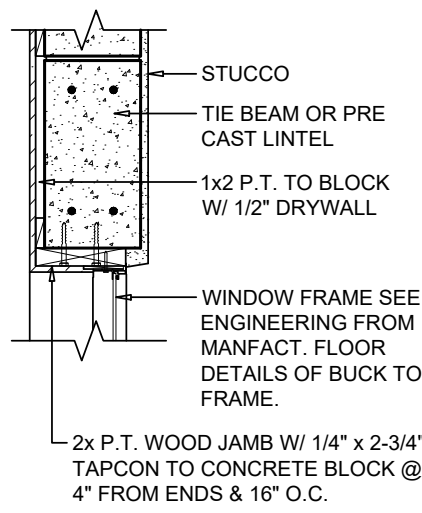
SLIDING GLASS DOOR JAMB DETAIL

SCALE: N.T.S.



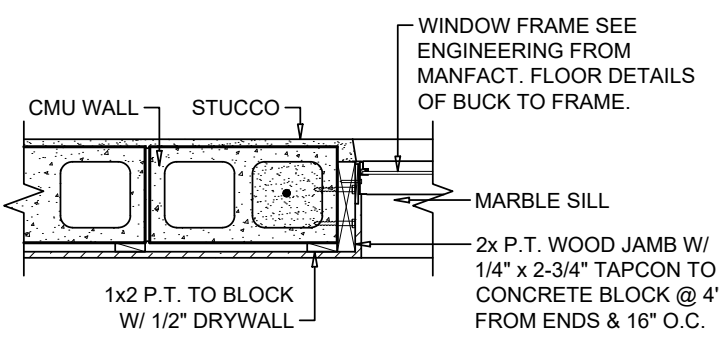
SLIDING GLASS DOOR SILL DETAIL

SCALE: N.T.S.



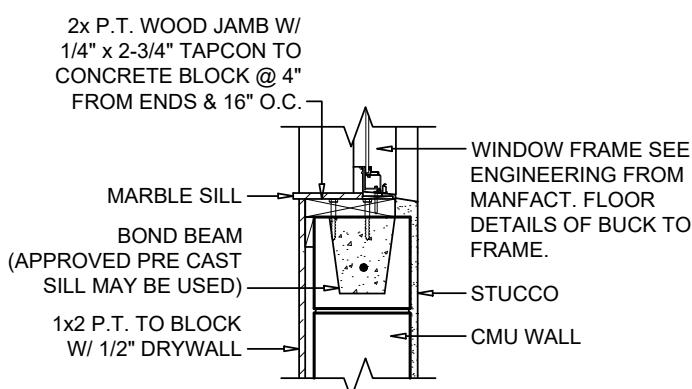
WINDOW HEAD DETAIL

SCALE: N.T.S.



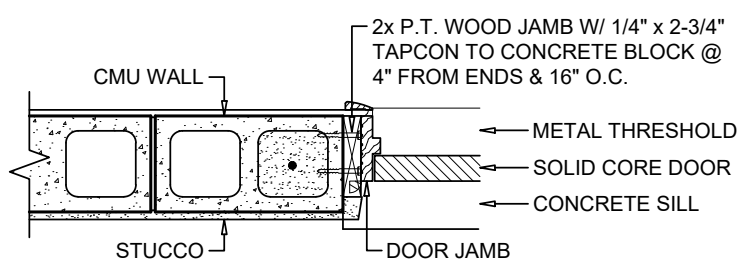
WINDOW JAMB DETAIL

SCALE: N.T.S.



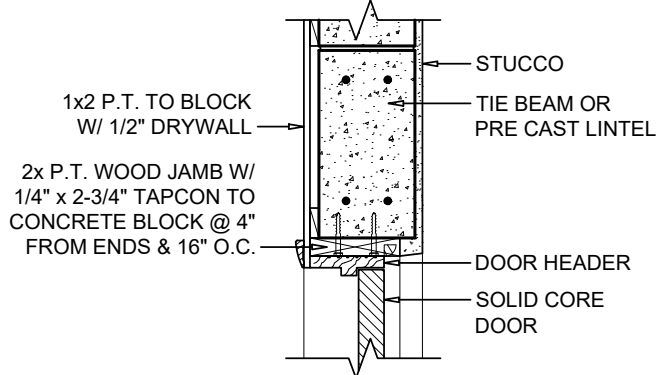
WINDOW SILL DETAIL

SCALE: N.T.S.



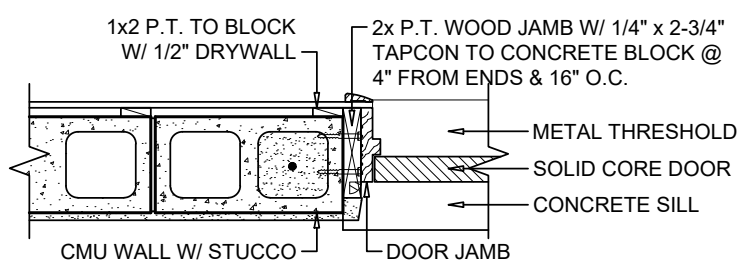
DOOR JAMB TO BLOCK DETAIL

SCALE: N.T.S.



DOOR HEAD DETAIL

SCALE: N.T.S.



DOOR JAMB TO BLOCK DETAIL

SCALE: N.T.S.

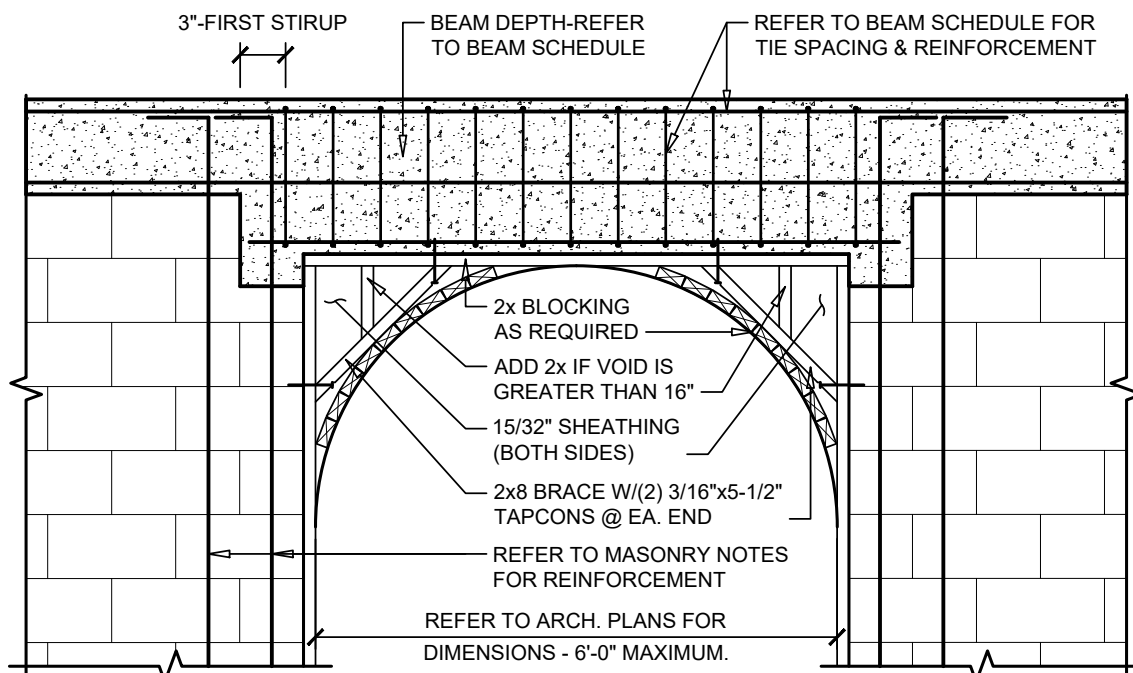
ALTERNATE WINDOW / DOOR JAM ATTACHMENT

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.

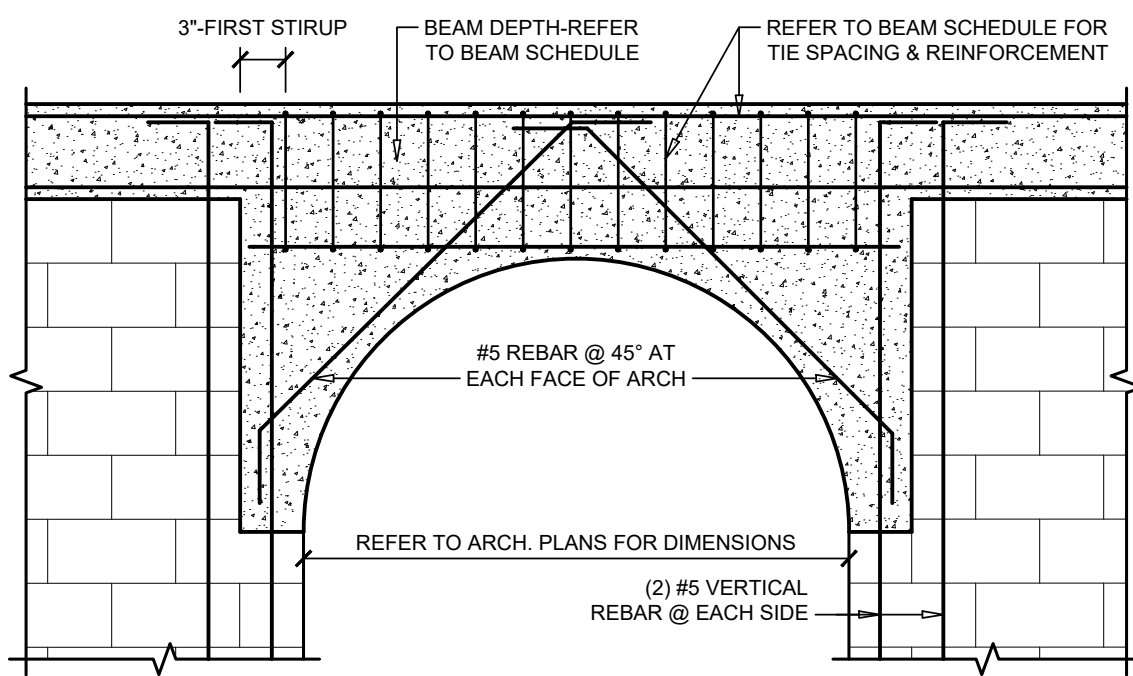
WINDOW ATTACHMENT SHALL BE PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE ATTACHED DIRECTLY TO THE MASONRY WALL THROUGH THE BUCKING IF USING 1" THICK BUCKSTRIPS.

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



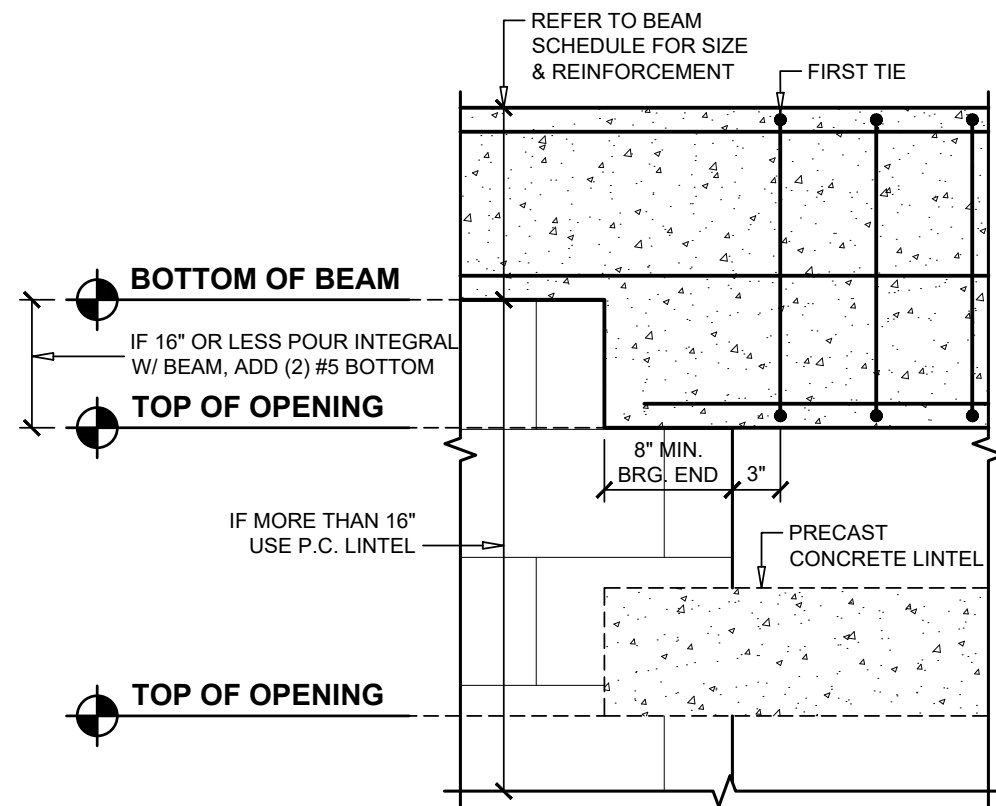
TYPICAL WOOD FRAME ARCH DETAIL

SCALE: N.T.S.



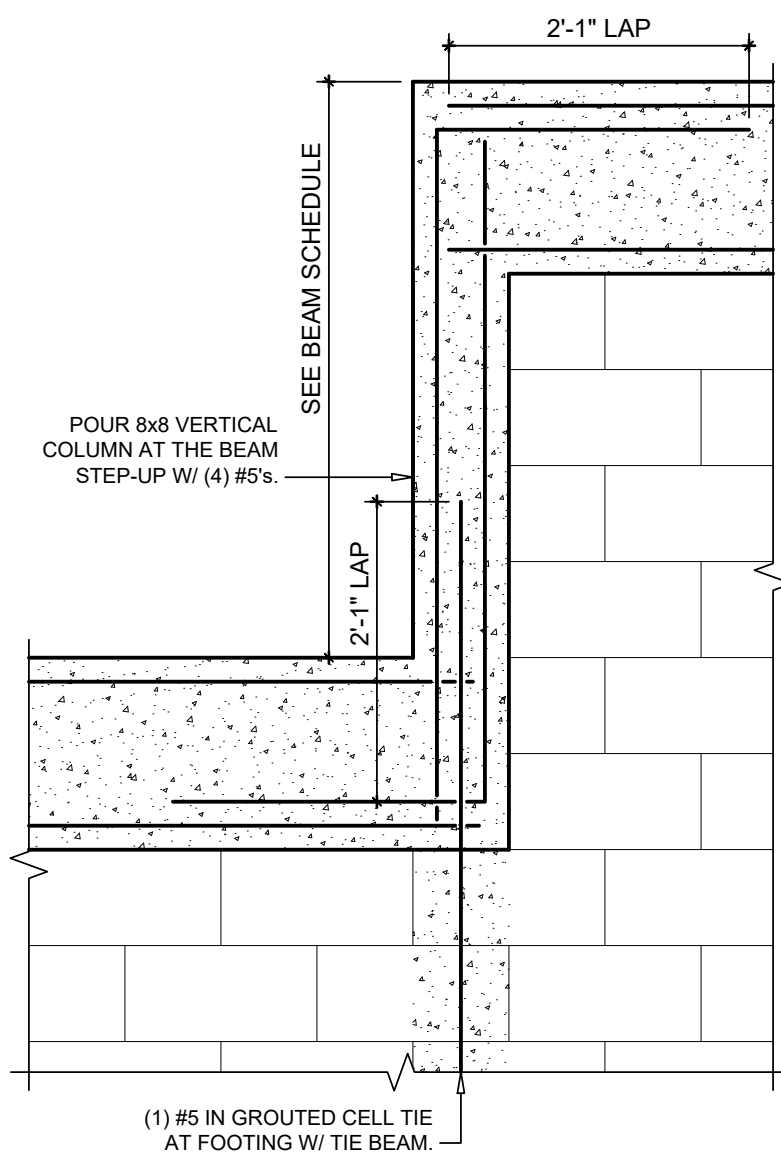
TYPICAL ARCH DETAIL

SCALE: N.T.S.



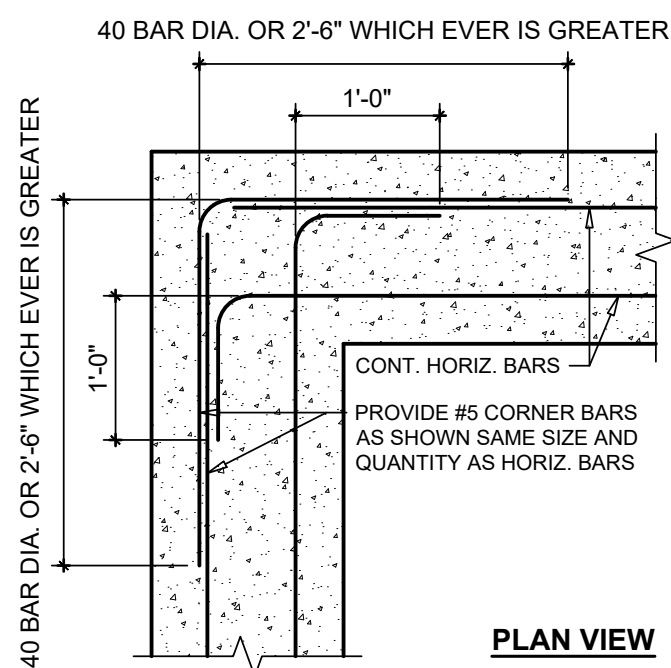
TYPICAL BEAM / LINTEL OVER OPENING

SCALE: N.T.S.



STEP-UP TIE BEAM DETAIL

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



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

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

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REV.	DESCRIPTION

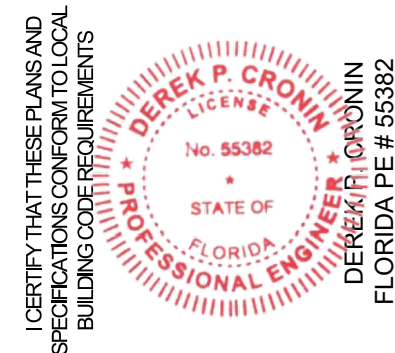
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PROJ. NAME: SINGLE FAMILY RESIDENCE
xxx 15TH ST SW
PID 45842080007, NAPLES, FL 34117

DATE: APRIL 29, 2024

DESCRIPTION: DETAILS

CRONIN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION NUMBER: 5597
6627 WILLOW PARK DRIVE
PHONE: 563-2157 FAX: 563-9820



SHEET No:

A-8

SYMBOL	DESCRIPTION
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1. ALL EXTERIOR OUTLETS AND OUTLETS IN KITCHEN, BATHROOMS AND

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* VERIFY SIZE OF O.C.B. DEVICE W/ MANUFACTURER, MECHANICAL DRAWINGS AND FIELD VERIFICATION.

* VERIFY SIZE OF C.C.B. DEVICES W/ MANUFACTURER, MECHANICAL DRAWINGS AND FIELD VERIFICATION

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