

DESIGN CRITERIA:

APPLICABLE CODES, REGULATIONS & STANDARDS

1. THE 2020 FLORIDA BUILDING CODE, SPECIFICALLY CHAPTER 16 STRUCTURAL DESIGN, CHAPTER 20 ALUMINUM & CH. 23 WOOD.
2. AA ASM 35 & SPECIFICATIONS FOR ALUMINUM STRUCTURES, PART 1-A OF THE ALUMINUM DESIGN MANUAL PREPARED BY THE ALUMINUM ASSOCIATION, INC. WASHINGTON D.C. 2005 ED.
3. ASCE 7-16 & SE17
4. NDS NATIONAL DESIGN SPECIFICATION FOR WOOD.
5. ACI318 CONCRETE REFERENCE MANUAL.

WIND LOADS

1. BUILDING OCCUPANCY CATEGORY, PARAGRAPH 1604.5 & TABLE 1604.5: RISK CATEGORY 1.
2. BASIC WIND SPEED, TABLE 1609C, STATE OF FLORIDA DEBRIS REGION & BASIC WIND SPEED, PARAGRAPH 1609.3.1 & TABLE 1609.3.1 EQUIVALENT BASIC WIND SPEED:

150

MPH EXPOSURE CATEGORY, PARAGRAPH 1609.4.3:

C
3. WIND LOADS PER FBC TABLE 2002.4 (MWFRS)
VULT = 150 MPH & EXPOSURE = C

FOR 20 X 20 X 0.013" MESH SCREEN

HORIZONTAL PRESSURES ON WINDWARD SURFACES =	43 PSF
HORIZONTAL PRESSURES ON LEEWARD SURFACES =	34 PSF
VERTICAL PRESSURES ON SCREEN SURFACES =	12 PSF
VERTICAL PRESSURES ON SOLID SURFACES =	36 PSF

FOR 18 X 14 X 0.013" MESH SCREEN, APPLIED FACTOR = .88

FOR ALLOWABLE STRESS DESIGN, APPLIED FACTOR = .6

FOUNDATION DESIGN:

PROPOSED 4" SLAB 3000 PSI CONCRETE W/ FIBERMESH + PERIMETER 8"X8" MONOLITHIC FOOTER (1) #5 REBAR CONT.

MISCELLANEOUS:

1. SCREENED ENCLOSURES CONTAINING SWIMMING POOLS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF FBC R4501.17 RESIDENTIAL SWIMMING BARRIER REQUIREMENTS.
2. ALUMINUM ADDITIONS ARE NOT TO BE INSTALLED ON A MANUFACTURED HOME, TRAILER HOME, OR PRE-FAB HOME. IF THE EXISTING STRUCTURE IS ONE OF THESE, A SEPARATE 4TH WALL SUPPORT SYSTEM IS SO TO BE ENGINEERED SO THAT NO ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED HOME.

FASTENER SPECIFICATIONS:

1. FASTENERS ARE REQUIRED TO BE SAE GRADE 2 OR BETTER ZINC PLATED. (CONCRETE ANCHORS ARE TO BE TAPCONS OR BETTER, INSTALLED TO MFG. SPECIFICATIONS)
2. IT IS THE OWNERS RESPONSIBILITY TO MAINTAIN THE SCREENS, FASTENERS AND SCREENS TO MANUFACTURING SPECIFICATIONS.
3. WHERE WOOD DECK IS PRESENT USE 1/4" X 3-1/2" GALV. LAG SCREWS IN LIEU OF MASONRY ANCHORS. UNLESS OTHERWISE SPECIFIED.
4. 1"X2" NON STRUCTURAL MEMBERS ATTACHED TO HOST
 - A. FOR MASONRY/CONCRETE APPLICATION USE GALVANIZED 1/4" X 2-3/4" TAPCONS OR EQUAL AT 24" O.C. AND 6" FROM ENDS
 - B. FOR WOOD APPLICATION USE # 14 X 2-3/4" WOOD SCREW AT 24" O.C. AND 6" FROM ENDS.
 - C. FOR ALUMINUM APPLICATION USE #10 X 1-1/2" SMS OR TEK SCREW AT 24" O.C. AND 6" FROM ENDS
 - D. WHERE 1"X2" INSTALLED THROUGHOUT AN "OPEN VIEW" SPACING SHALL BE REDUCED TO 18" O.C. AND 6" FROM ENDS

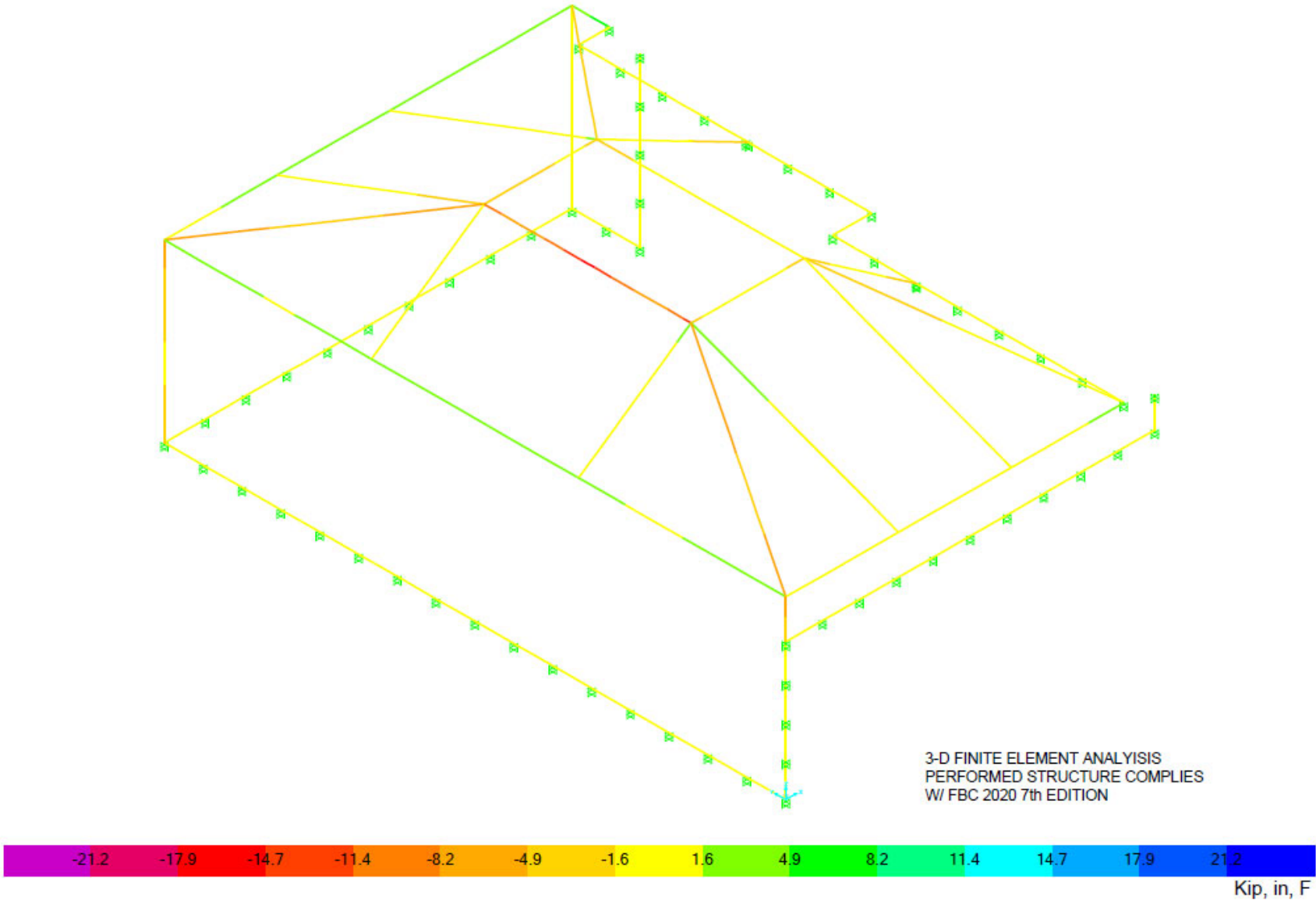
RESPONSIBILITIES:

1. ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDANANCES, AND THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
2. FOR FASTENERS WHICH ARE NOT VISIBLE AFTER INSTALLATION, THE CONTRACTOR SHALL VERIFY AND ENSURE INSTALLATION HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH THE ATTACHED DETAILS.
3. FOR "PICTURE WINDOW" MODIFICATION TO EXISTING SCREEN ENCLOSURES, ALL OTHER "EXISTING SCREEN ENCLOSURE" FEATURES ARE TO MEET THE TYPICAL DETAILS AS PROVIDED IN THESE DETAILS. CONTRACTOR IS TO VERIFY & ASSURE EXISTING SCREEN ENCLOSURE IS STRUCTURALLY SOUND.
4. CONTRACTOR TO PROVIDE NOA'S & INSTALL ALL MATERIALS AS PER MANUFACTURER'S SPECIFICATIONS.
5. INTEGRITY OF EXISTING/ HOST STRUCTURE SHALL NOT BE COMPROMISED WITH THE ATTACHMENT OF THE PROPOSED STRUCTURE.

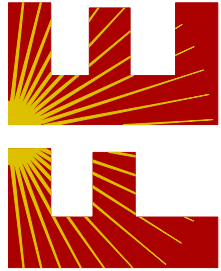
SHEET NO.	DRAWING INDEX
S/01	GENERAL NOTES
S/02	PLAN/ ELEVATIONS
S/03	FOUNDATION PLAN
S/04	DETAILS
S/05	DETAILS
S/06	DETAILS

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PROPOSED MANSARD SCREEN ENCLOSURE
SEE FOUNDATION PLAN SHEET-03



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(941) 391-5980



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CA CERT. #30782

PROJECT NO. 2329336

CONTRACTOR:

SCREENS OVER MARCO
P.O. BOX 801
MARCO ISLAND, FL 34146

PROJECT ADDRESS:

JENNINGS
4572 PASADENA CT
NAPLES, FL 34109

DESIGN DATE: 10/24/2023

REVISION 1: DATE

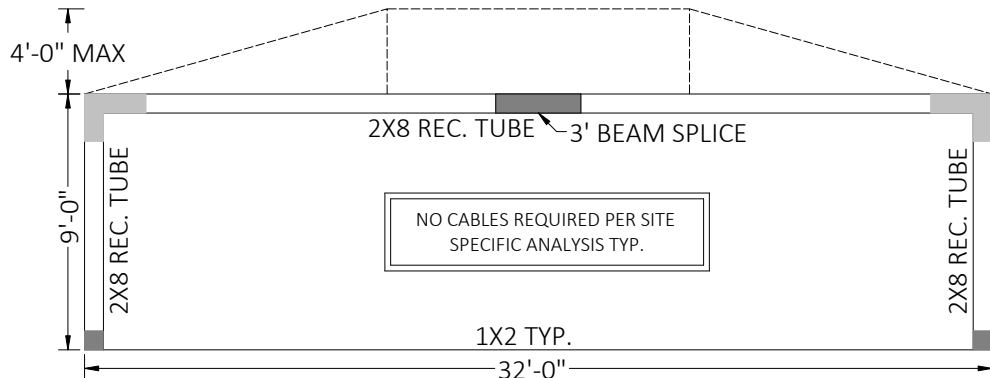
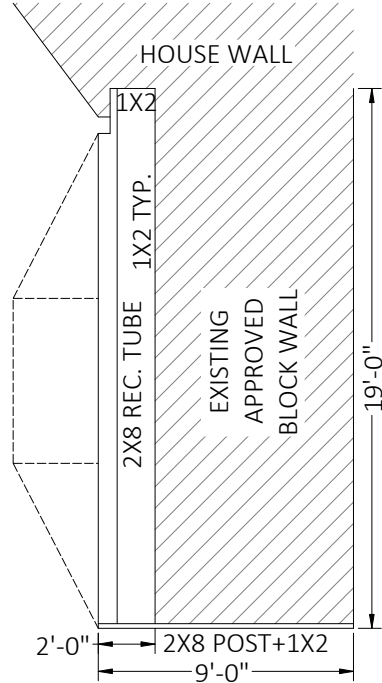
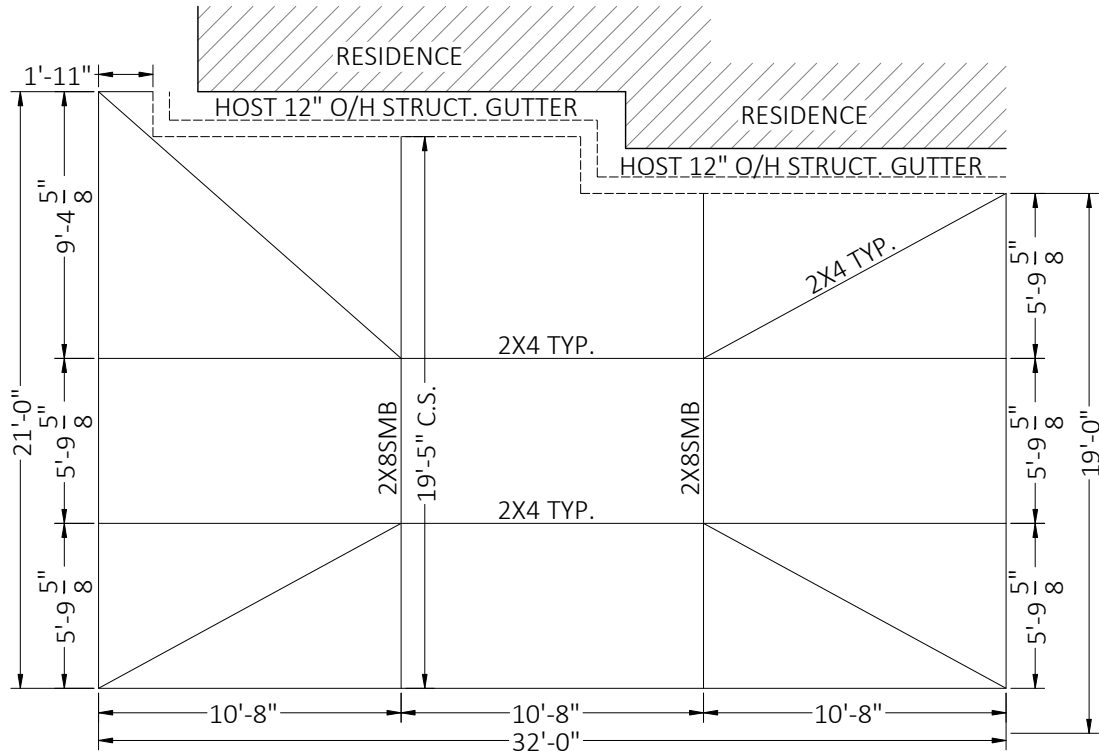
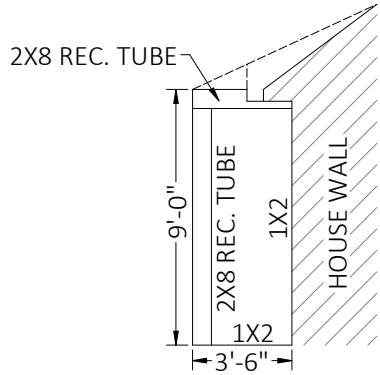
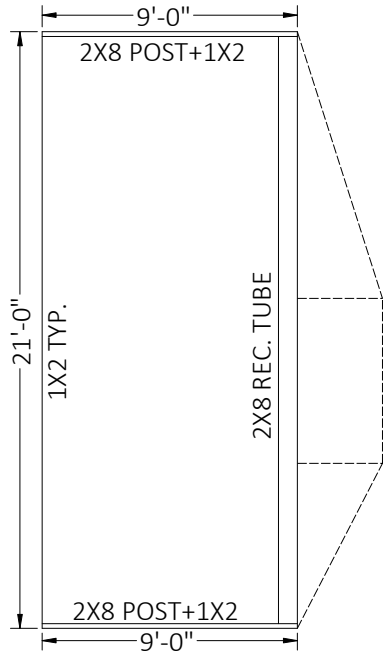
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DRAWN BY: MBG

SCALE: NTS

SHEET:

01



HATCH	INDICATES
	EXIST. STRUCTURE

NOTE: ALL MAY NOT APPLY

- ALUMINUM SPECIFICATIONS:
1. ALUMINUM EXTRUSIONS SHALL BE 6005 T5 ALLOY UNLESS OTHERWISE NOTED.
 2. ALL SELF MATING BEAM SECTIONS ARE TO BE STITCHED WITH #12 SCREWS 6" FROM ENDS & 24" CENTER TO CENTER. #10 SCREW 6" FROM ENDS & 12" CENTER TO CENETER.
 3. ROOF BRACING SHALL BE A MINIMUM 2"X4"X.050".
 4. THE MINIMUM NORMAL THICKNESS OF PROTECTOR PANELS (KICKPLATES) SHALL BE AN INDUSTRY STANDARD OF 0.024 INCHES.
 5. VINYL AND ACRYLIC PANELS SHALL BE REMOVED WHEN WIND SPEEDS EXCEED 75 MPH PER FBC.
 6. SCREEN MATERIAL SHALL BE 18/14 SCREEN UNLESS APPROVED BY FLORIDA ENGINEERING LLC.
 7. 1"X2" & 1"X3" NON STRUCTURAL MEMBERS MAY BE USED INTERCHANGEABLY.
 8. DOOR LOCATION MAY BE DETERMINED/ RELOCATED BY CONTRACTOR IN THE FIELD.
 9. NO CABLES REQUIRED PER SITE SPECIFIC ANALYSIS.

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THE ENGINEERING ON THESE PLANS IS SITE SPECIFIC FOR (1) STRUCTURE ONLY AT THE PROVIDED ADDRESS(ES).



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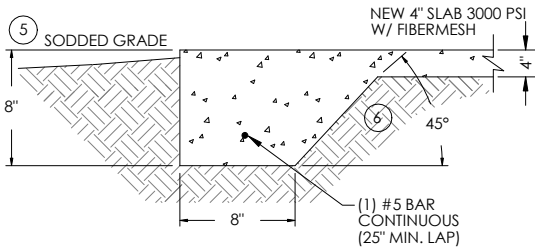
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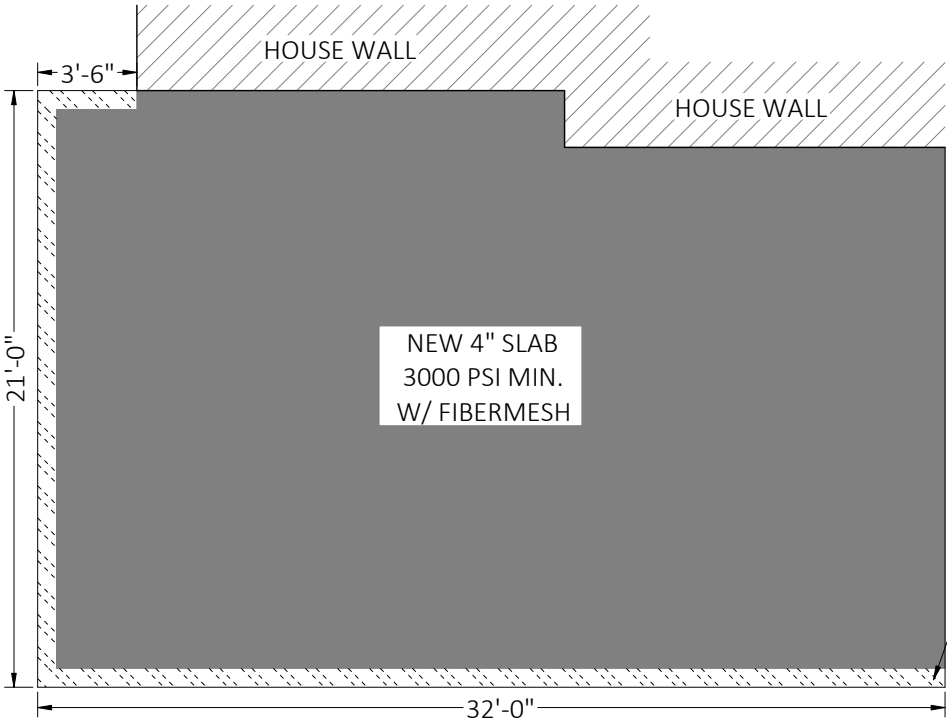
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FOUNDATION DESIGN:
PROPOSED 4" SLAB 3000 PSI CONCRETE W/ FIBERMESH +
PERIMETER 8"x8" MONOLITHIC FOOTER (1) #5 REBAR CONT.

- SPECIFICATIONS:
- THE FOLLOWING SPECIFICATIONS ARE APPLICABLE TO THIS PROJECT:
- WHERE CONCRETE SPECIFICATIONS ARE REQUIRED, WHETHER IN THE SCREEN ENCLOSURE SCOPE OR NOT, BY ONE OR MORE REGULATORY AGENCY, THE FOLLOWING SPECIFICATIONS ARE APPLICABLE:
 - CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING COMPONENTS:
 - PORTLAND CEMENT TYPE 1 - ASTM C 150
 - AGGREGATES - LARGE AGGREGATE 3/4 MAX. - ASTM C 33
 - AIR ENTRAINING +/- 1 % - ASTM C 260
 - WATER REDUCING AGENT - ASTM C 494
 - CLEAN POTABLE WATER
 - OTHER ADMIXTURES NOT PERMITTED
 - METAL ACCESSORIES SHALL CONFORM TO:
 - REINFORCING BARS - ASTM A615, GRADE 60
 - WELDED WIRE FABRIC - ASTM A185
 - CONCRETE SLUMP AT DISCHARGE CHUTE NOT LESS THAN 3" OR MORE THAN 5". WATER ADDED AFTER BATCHING IS NOT PERMITTED.
 - PREPARE & PLACE CONCRETE PER AMERICAN CONCRETE INSTITUTE MANUAL OF STANDARD PRACTICE, PART 1, 2, & 3 INCLUDING HOT WEATHER RECOMMENDATIONS.
 - MOIST CURE OR POLYETHYLENE CURING PERMITTED.
 - PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FBC. FOR RISK CATEGORY II, III, & IV STRUCTURES ONLY.
 - CONCRETE SLAB SHALL BE PLACED OVER A POLYETHYLENE VAPOR BARRIER. (SLAB ONLY)
 - WHEN PAVERS ARE UNDER ALUMINUM MEMBERS, CONTRACTOR SHALL EPOXY TO DECK OR GROUT TO DECK w/3000 PSI GROUT WITH BONDING AGENT
 - WHEN APPLICABLE FOR NEW SLAB ADDITION TO ADJACENT DRILL & EPOXY #4 X 8" REBAR INTO EX. FOUNDATION EMBED 4" MIN W/ NON-SHRINKING SIMPSON EPOXY-TIE (OR EQUAL) 48" O.C. TYP. ALL LOCATIONS
 - WHEN APPLICABLE FOR NEW FOOTER TO EXISTING, DRILL & EPOXY NEW STEEL INTO EX. FOUNDATION WITH EMBED 6" MIN W/ NON-SHRINKING SIMPSON EPOXY-TIE (OR EQUAL) TYP. ALL LOCATIONS
 - WHERE PAVERS ARE UNDER ALUMINUM MEMBERS, CONTRACTOR SHALL EPOXY TO DECK OR GROUT TO DECK w/3000 PSI GROUT WITH BONDING AGENT.
 - MINIMUM CONCRETE STRENGTH 3000 PSI UNLESS OTHERWISE NOTED.
- MASONRY SPECIFICATIONS:
- CONCRETE MASONRY UNITS (CMU) SHALL BE STANDARD HOLLOW UNITS AND SHALL BE 1900 PSI MINIMUM BASED ON TYPE M OR S MORTAR.
 - ALL MORTAR SHALL BE TYPE M OR S.
 - ALL GROUT SHALL BE 2000 PSI MINIMUM AND HAVE MAXIMUM COARSE AGGREGATE SIZE OF 3/8".
 - PROVIDE CLEAN-OUTS FOR REINFORCED CELLS CONTAINING REINFORCEMENT WHEN GROUT POUR EXCEEDS 5'-0" IN HEIGHT.
- FOOTING NOTES:
- PROVIDE 1-1/2' COVERAGE TOP, SIDES, BOTTOM AND 1" BETWEEN ADJACENT REBAR LAPS.
 - PROVIDE MIN. 3" COVERAGE OF REBAR FOR ALL CONCRETE IN CONTACT WITH THE EARTH.
 - FOOTING CONCRETE SHALL BE MIN. 3000 PSI AT 28 DAYS
 - FOOTING REINFORCEMENT SHALL BE MIN. GRADE 60
 - PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE TO CITY / CO. REQUIREMENTS
 - PROVIDE 2500 PSF BEARING (TYPICAL) UNDER FOUNDATION
 - SEE GENERAL NOTES ABOVE FOR TYING INTO EXISTING FOUNDATIONS
 - SEE GENERAL NOTES ABOVE FOR ADDITIONAL CONCRETE INFORMATION & SPECS.



8"x8" MONOLITHIC FOOTING
SCALE: NTS



FOUNDATION PLAN : NTS

PROPOSED 4" SLAB 3000 PSI
CONCRETE W/ FIBERMESH +
PERIMETER 8"x8" MONOLITHIC
FOOTER (1) #5 REBAR CONT.

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CONCRETE LEGEND

HATCH	INDICATES
	HOST/ EXIST.
	NEW FOOTING
	NEW SLAB AREA

NOTE: ALL MAY NOT APPLY

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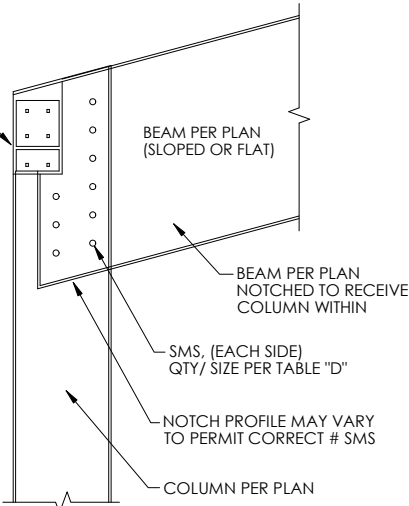
03

1"x2" FASTEN TO COL. (INTERNAL)
w/(2) #10x1-1/2" SMS, FASTEN TO
EAVE RAILS ABOVE w/#10 1-1/2" SMS
24" O.C. AND 6" WITHIN COL.

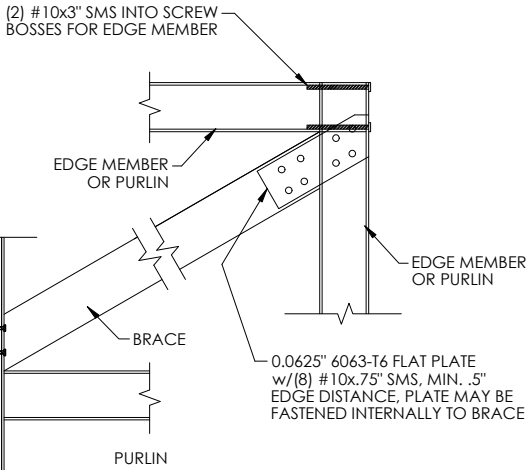
TABLE "D"

BEAM	QTY/ SIZE EACH SIDE
2 x 3	(4)/ #12
2 x 4	(5)/ #12
2 x 5	(5)/ #12
2 x 6	(6)/ #12
2 x 7	(7)/ #12
2 x 8	(8)/ #14
2 x 9	(9)/ #14
2 x 10	(9)/ #14

MAINTAIN MIN. OF 5/8" SEPERATION
FROM EDGE OF BEAM SMS O.C.



DETAIL "E" - UPRIGHT TO BEAM
CONNECTION SCALE: NTS



DETAIL "D" - ROOF BRACING CONNECTION
SCALE: NTS

ALUMINUM MEMBERS DIMENSIONS:

HOLLOW SECTIONS
2 x 2: 2" x 2" x 0.050"
2 x 3: 2" x 3" x 0.050"
2 x 4: 2" x 4" x 0.050"
2 x 5: 2" x 5" x 0.050"

OPEN BACK SECTIONS
1 x 2: 1" x 2" x 0.044"
1 x 3: 1" x 3" x 0.045"

SNAP SECTIONS
2 x 2 SNAP: 2" x 2" x 0.045"
2 x 3 SNAP: 2" x 3" x 0.050"
2 x 4 SNAP: 2" x 4" x 0.045"

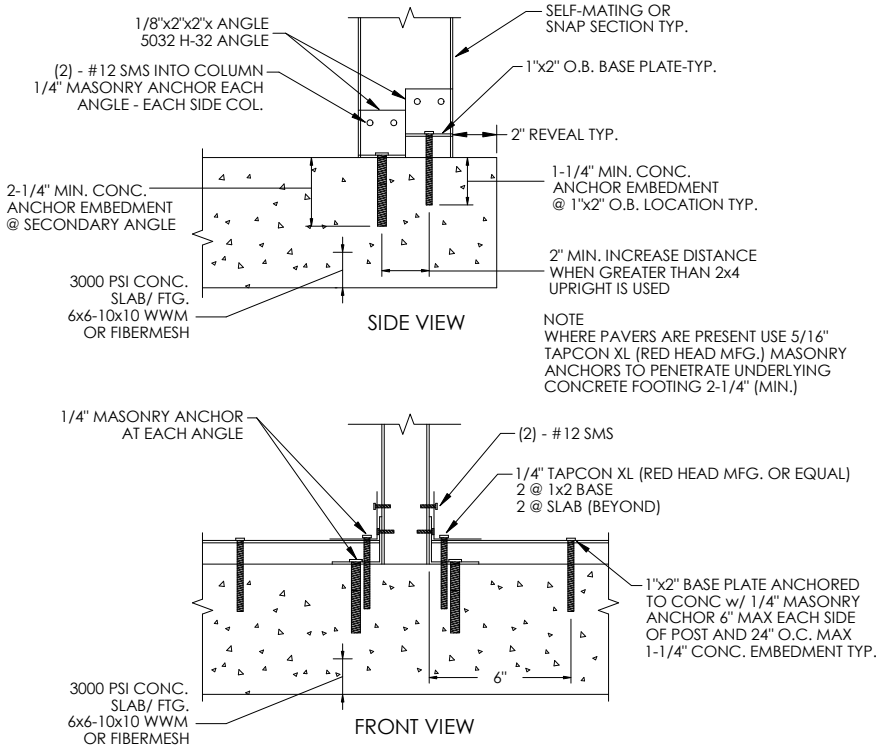
SELF MATING (SMB)
2 x 4 SMB: 2" x 4" x 0.046" x 0.100"
2 x 5 SMB: 2" x 5" x 0.050" x 0.116"
2 x 6 SMB: 2" x 6" x 0.050" x 0.120"
2 x 7 SMB: 2" x 7" x 0.055" x 0.120"
2 x 8 SMB: 2" x 8" x 0.072" x 0.224"
2 x 9 SMB: 2" x 9" x 0.072" x 0.224"
2 x 9(H) SMB: 2" x 9" x 0.082" x 0.306"
2 x 10 SMB: 2" x 10" x 0.092" x 0.374"
ALL MAY NOT APPLY

DETAIL A

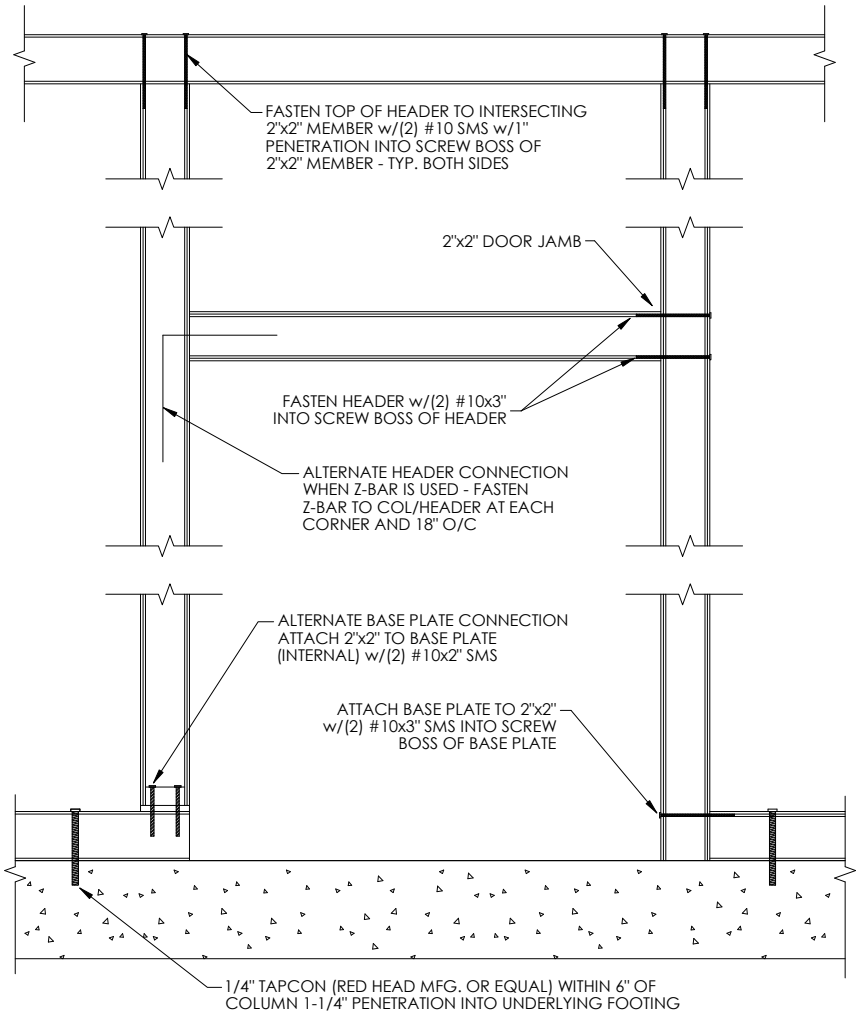
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MINIMUM NUMBER OF TAPCONS INTO CONCRETE &
12 X 3/4" S.M.S. INTO UPRIGHT / EACH SIDE OF BEAM
THROUGH SECONDARY 2" X 2" X 0.125" ANGLES
(SEE BELOW)

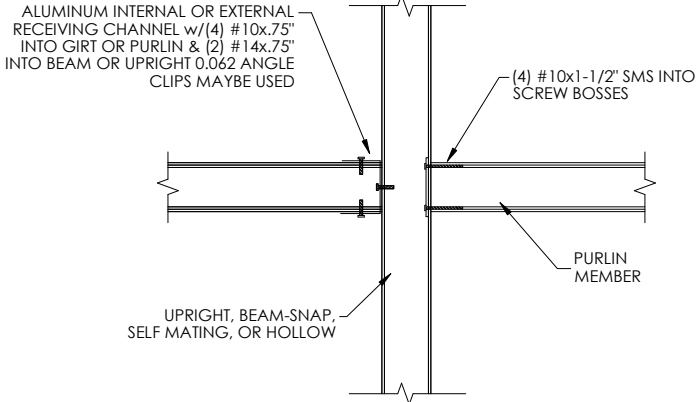
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2X5 S.M.B. (1) 1/4" X 2-1/4" S.S. TAPCON & (2) # 12 X 3/4" S.M.S.
2X6 S.M.B. (2) 1/4" X 2-1/4" S.S. TAPCON & (3) # 12 X 3/4" S.M.S.
2X7 S.M.B. (2) 1/4" X 2-1/4" S.S. TAPCON & (4) # 12 X 3/4" S.M.S.
2X8 S.M.B. (3) 1/4" X 2-1/4" S.S. TAPCON & (5) # 12 X 3/4" S.M.S.
2X9 S.M.B. (4) 1/4" X 2-1/4" S.S. TAPCON & (6) # 12 X 3/4" S.M.S.
2X10 S.M.B. (5) 1/4" X 2-1/4" S.S. TAPCON & (7) # 12 X 3/4" S.M.S.



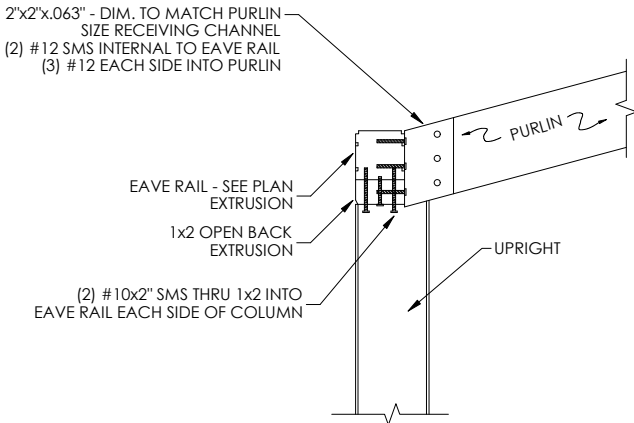
DETAIL "B" - 2"x4" OR LARGER SELF MATING
UPRIGHT TO DECK DETAILS SCALE: NTS



DETAIL "F" - DOOR JAMB & HEADER
CONNECTION SCALE: NTS



DETAIL "C" - GIRT OR PURLIN TO BEAM
OR POST DETAIL SCALE: NTS



DETAIL "G" - SLOPED PURLIN
CONNECTION SCALE: NTS

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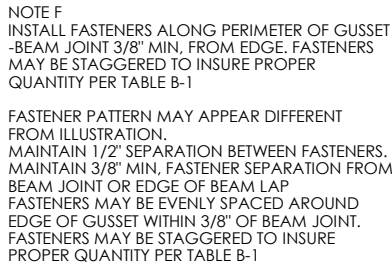
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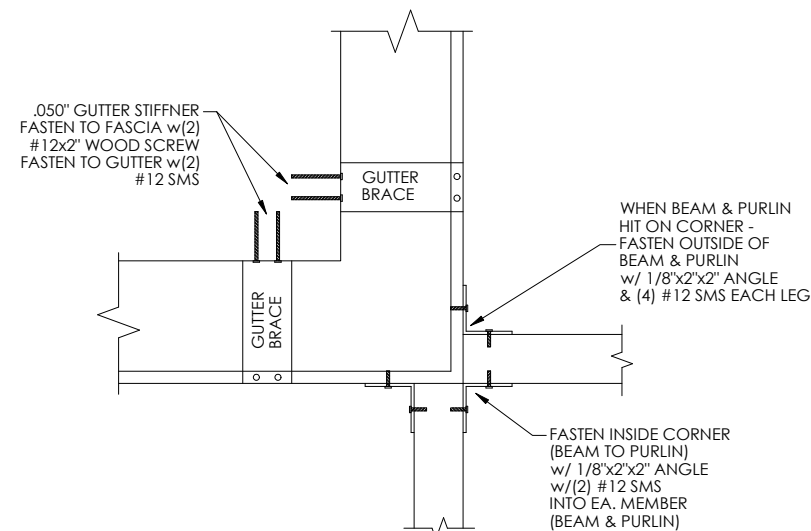
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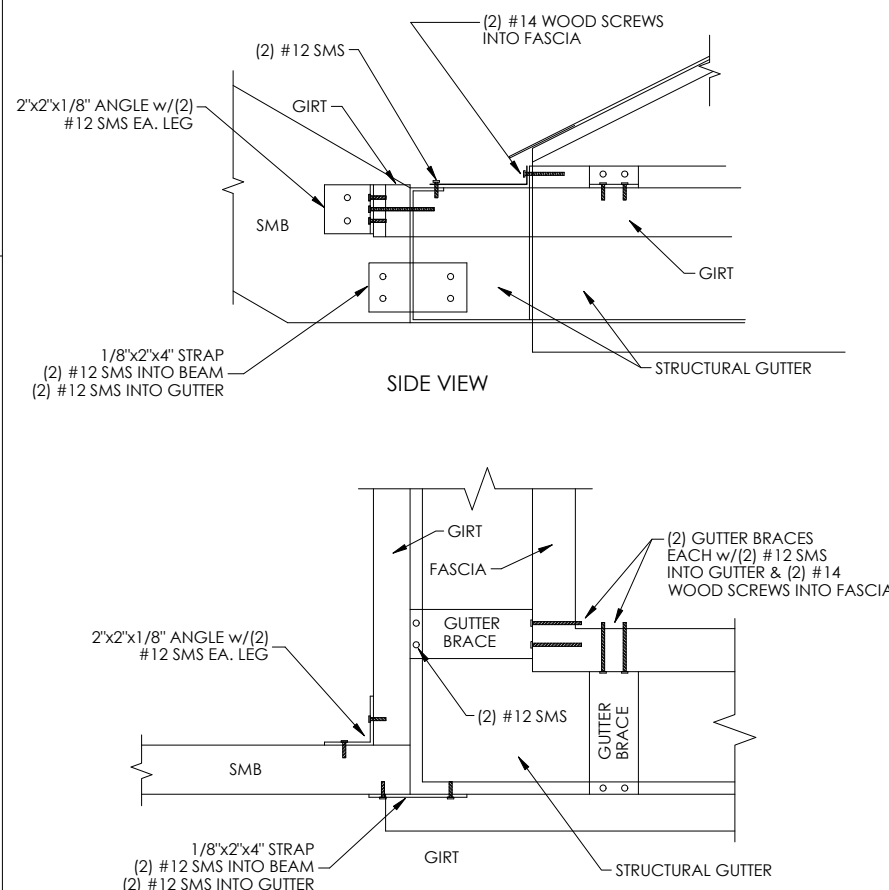


BEAM SIZE	COL. TO BEAM QTY SMS/ SIDE OF COL.	BEAM TO BEAM QTY SMS/ EA. FACE/SIDE
2 x 4	(5) #12	(9) #12
2 x 5	(5) #12	(9) #12
2 x 6	(7) #12	(9) #12
2 x 7	(10) #12	(10) #12
2 x 8	(12) #12	(14) #12
2 x 9	(14) #14	(14) #14
2 x 10	(16) #14	(15) #14

DETAIL "H" BEAM TO GUTTER
CONNECTION SCALE: NTS

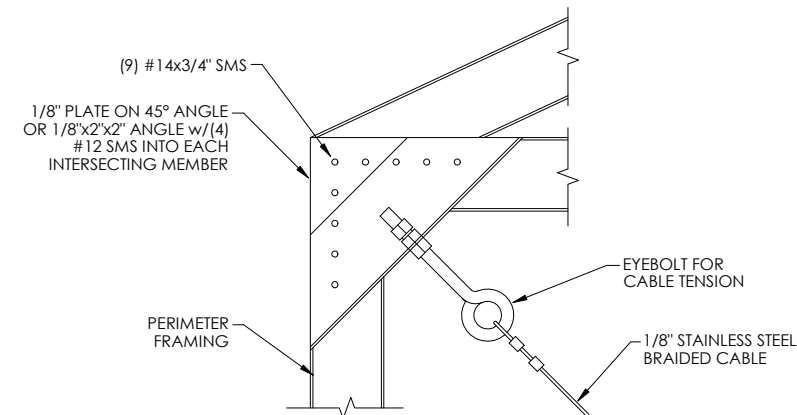


DETAIL "M" BEAM & PURLIN TO GUTTER
CONNECTION SCALE: NTS

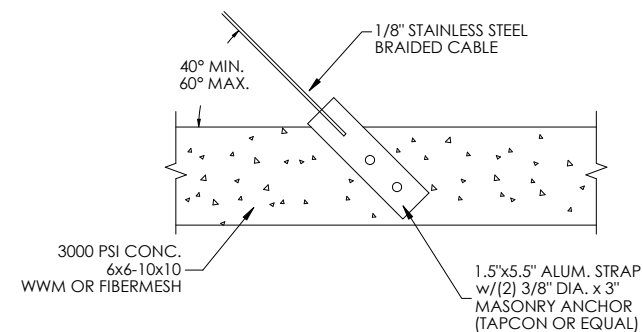
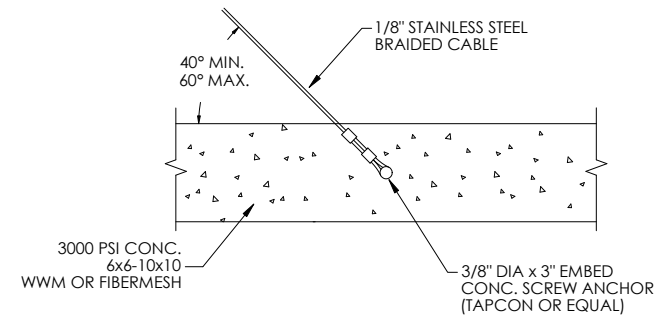
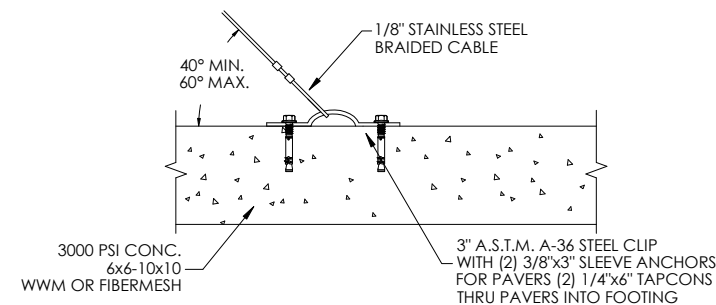


TOP VIEW
DETAIL "L" CORNER CONNECTION
SCALE: NTS

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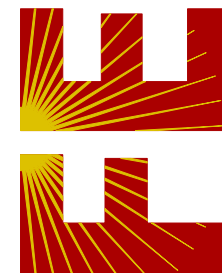


DETAIL "I-2" CABLE CONNECTION
AT CORNER SCALE: NTS



DETAIL "I-1" CABLE CONNECTION
AT FOUNDATION SCALE: NTS

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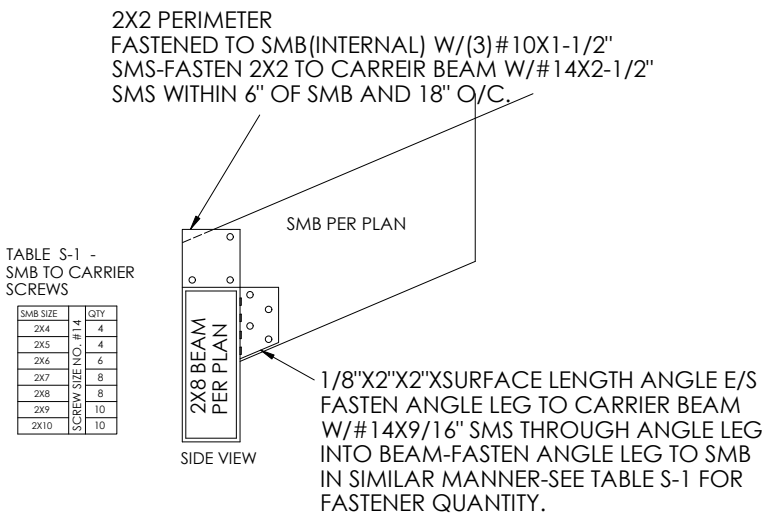
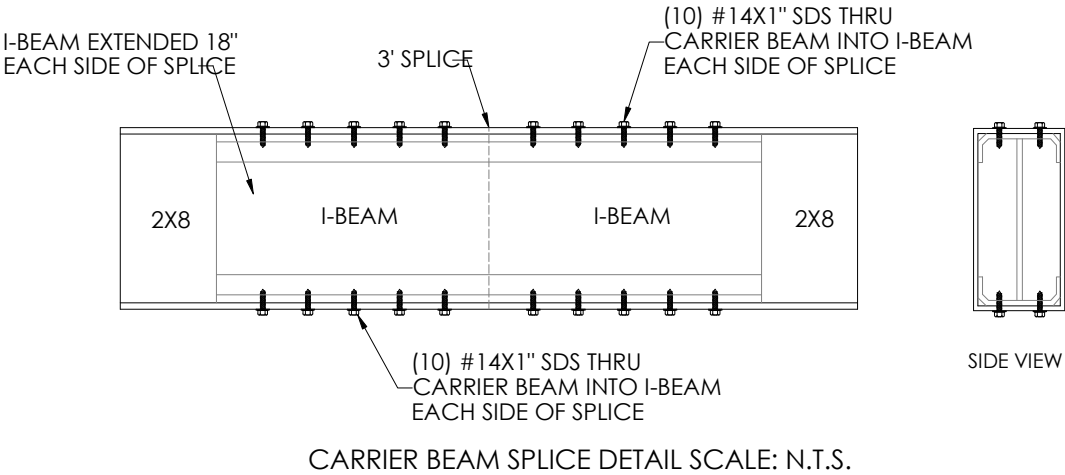
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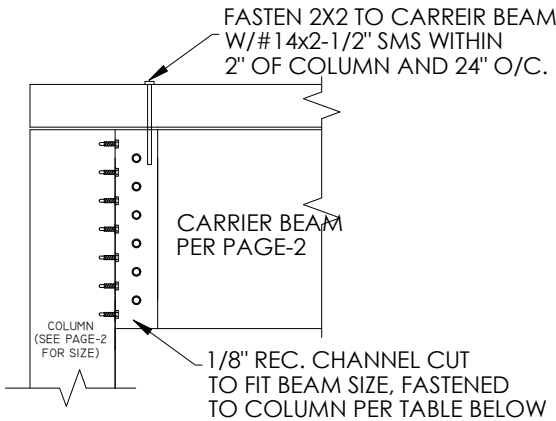
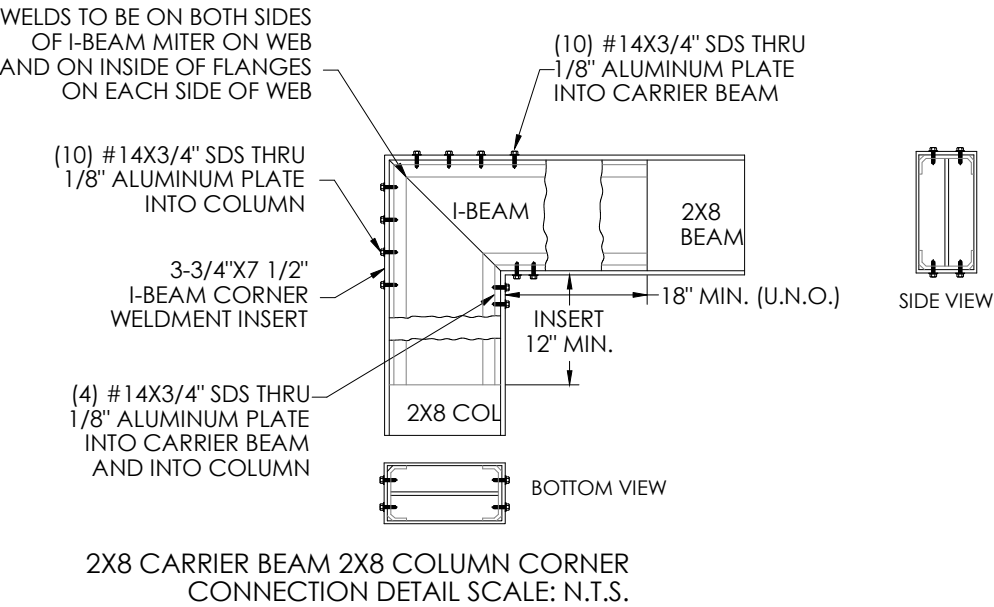
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05



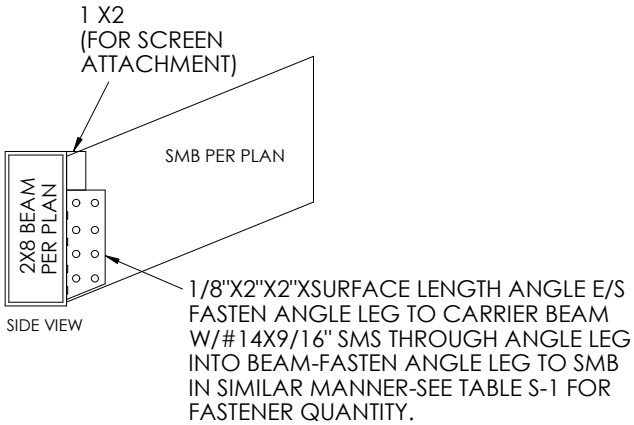
This item has been electronically signed and sealed by Craig E. Gunderson, P.E. on date below using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ROOF BEAM TO CARRIER BEAM CONNECTION
DETAIL SCALE: N.T.S.

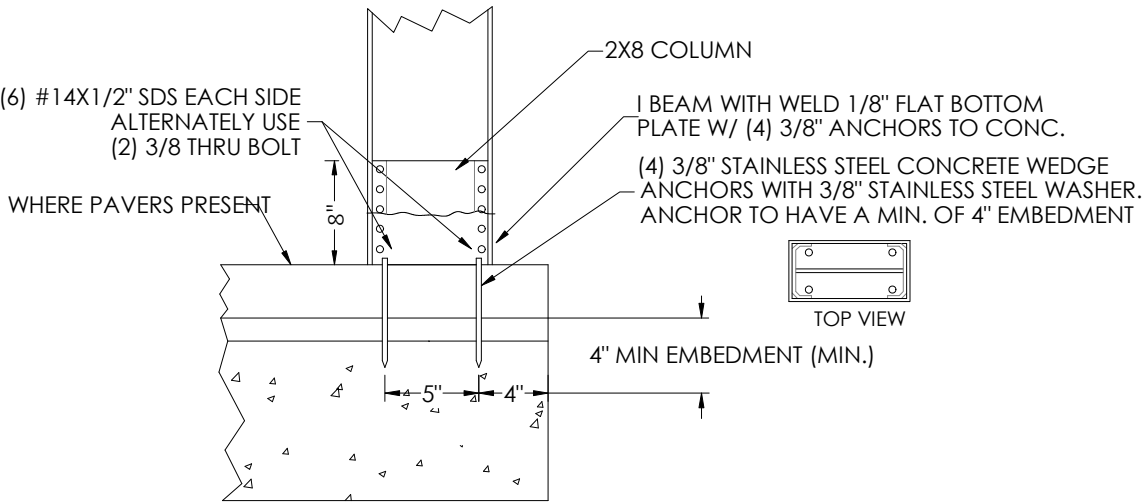


BEAM SIZE	QUANTITY/ SIZE LEG TO BEAM E/S	QUANTITY/SIZE TO COL. INTERNAL
2X8	(7) #14 - (4) #16	(12) #14 - (6) #16
2X9	(8) #14 - (5) #16	(14) #14 - (6) #16
2X10	(9) #14 - (6) #16	(14) #14 - (7) #16

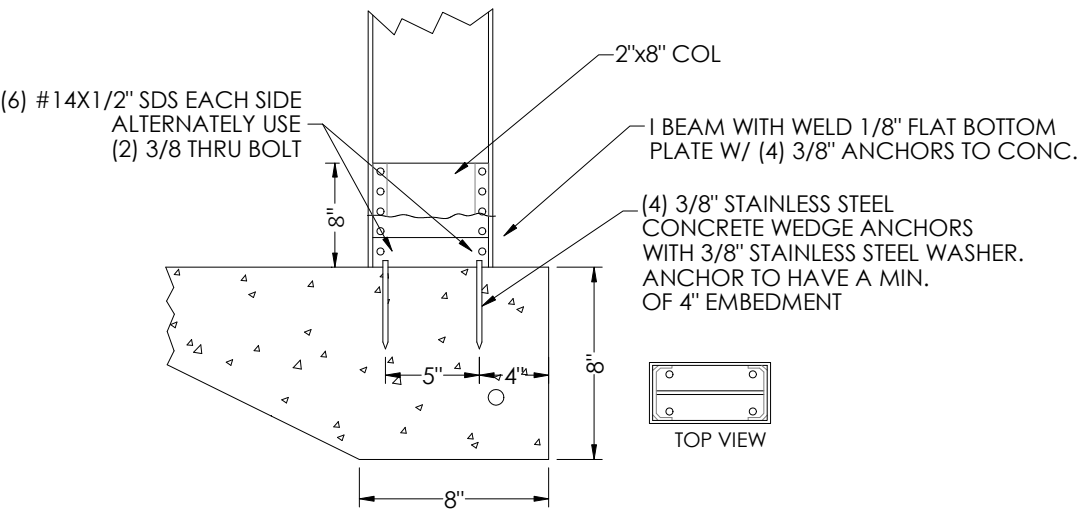
BEAM TO COLUMN CONNECTION
DETAIL SCALE: N.T.S.



ROOF BEAM TO CARRIER BEAM CONNECTION #2
DETAIL SCALE: N.T.S.

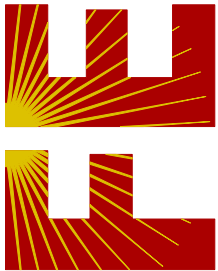


ANCHORING 2X8 POST w/ PAVERS CONNECTION
DETAIL SCALE: N.T.S.



ANCHORING 2X8 POST CONNECTION
DETAIL SCALE: N.T.S.

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PROJECT NO. 2329336

CA CERT. #30782

CONTRACTOR:
SCREENS OVER MARCO
P.O. BOX 801
MARCO ISLAND, FL 34146

PROJECT ADDRESS:
JENNINGS
4572 PASADENA CT
NAPLES, FL 34109

DESIGN DATE: 10/24/2023

REVISION 1: DATE

REVISION 2: DATE

DRAWN BY: MBG

SCALE: NTS

SHEET:

06