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: MPH EXPOSURE CATEGORY, PARAGRAPH 1609.4.3: 3. WIND LOADS PER FBC TABLE 2002.4 (MWFRS)

VULT = 110 MPH & EXPOSURE = C

FOR 20 X 20 X 0.013" MESH SCREEN 24 PSF 18 PSF 7 PSF HORIZONTAL PRESSURES ON WINDWARD SURFACES = HORIZONTAL PRESSURES ON LEEWARD SURFACES = VERTICAL PRESSURES ON SCREEN SURFACES = 19 PSF VERTICAL PRESSURES ON SOLID SURFACES =

FOR 18 X 14 X 0.013" MESH SCREEN, APPLIED FACTOR = FOR ALLOWABLE STRESS DESIGN, APPLIED FACTOR =

FOUNDATION DESIGN

EXISTING APPROVED 12" X 12" RIBBON FOOTER W/ (2) # 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.

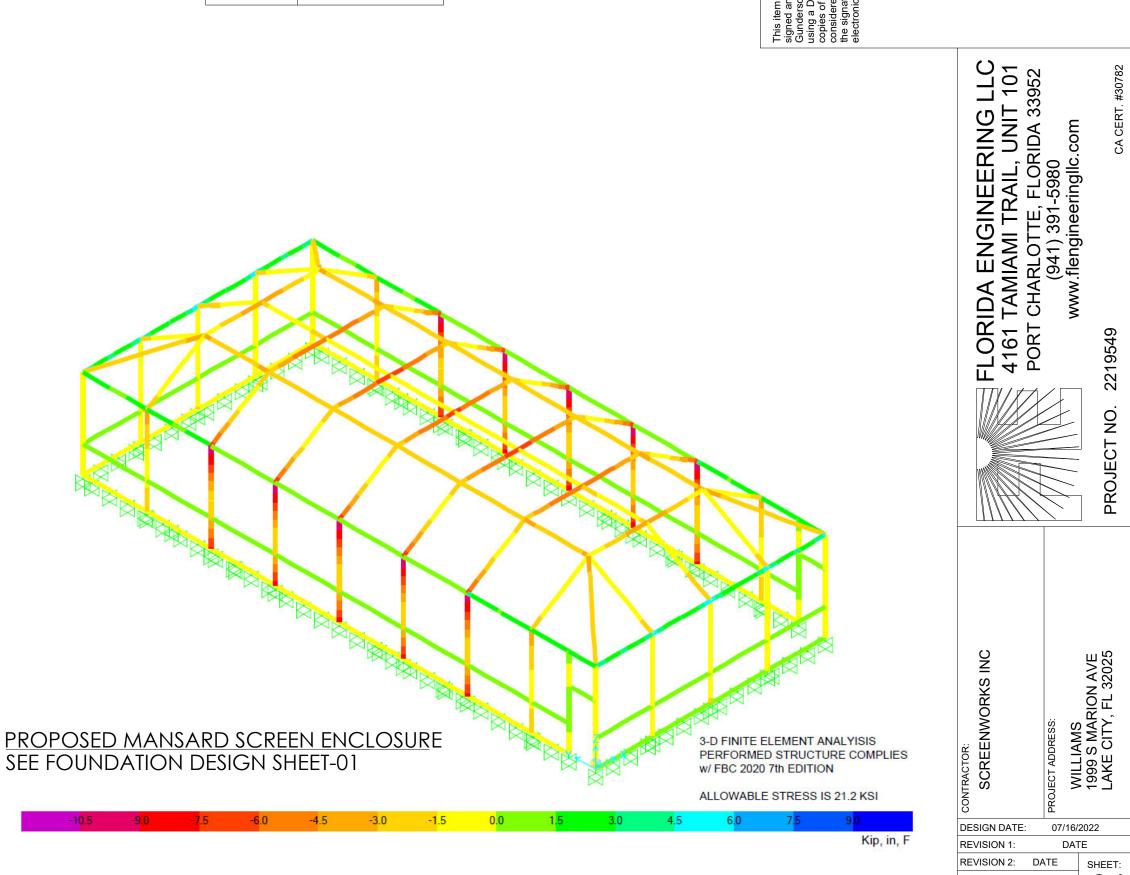
FASTENER SPECIFICATIONS

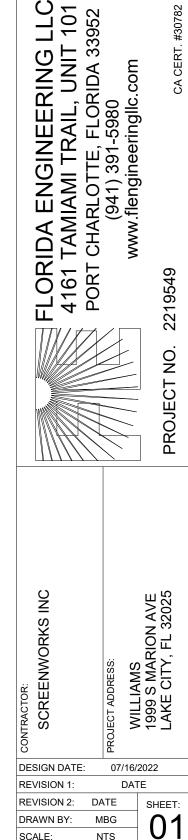
- 1. FASTENERS ARE REQUIRED TO BE SAE GRADE 2 OR BETTER ZINC PLATED. (CONCRETE ANCHORS ARE TO BE TAPCONS OR BETTER, INSTALLED TO MFG. SPECIFICATIONS)
- 2. IT IS THE OWNERS RESPONSIBILITY TO MAINTAIN THE SCREENS, FASTENERS AND SCREENS TO MANUFACTURING SPECIFICATIONS.

 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

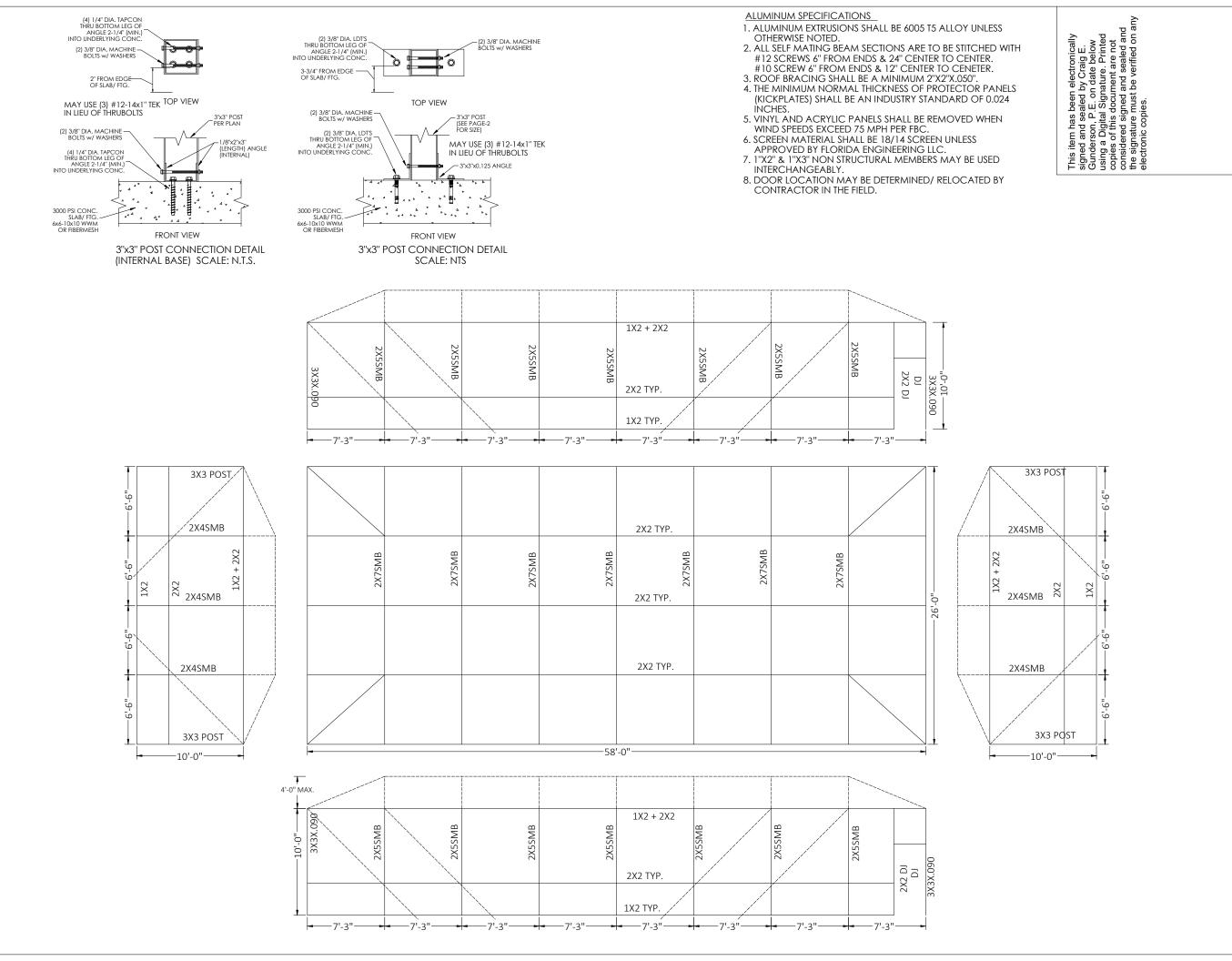
- ALL SITE WORK SHALL BE PERFORMED BY A LICENSED
 CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDANANCES, AND THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- 2. FOR FASTENERS WHICH ARE NOT VISIBLE AFTER INSTALLATION. THE CONTRACTOR SHALL VERIFY AND ENSURE INSTALLATION HAS BEEN 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.

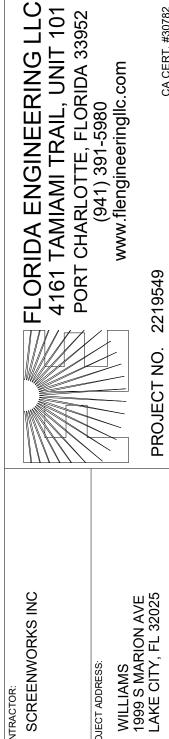
SHEET NO.	DRAWING INDEX
\$/01	GENERAL NOTES
\$/02	PLAN/ ELEVATIONS
\$/03	DETAILS
\$/04	DETAILS





NTS





PROJECT ADDRESS:

DATE

MBG

NTS

07/16/2022 DATE

SHEET:

CONTRACTOR

DESIGN DATE:

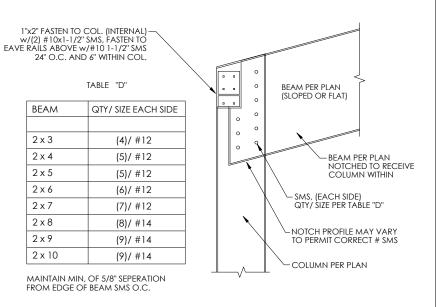
REVISION 1:

REVISION 2:

DRAWN BY:

SCALE:

CA CERT. #30782



DETAIL E - UPRIGHT TO BEAM CONNECTION SCALE: NTS

(2) #10x3" SMS INTO SCREW BOSSES FOR EDGE MEMBER EDGE MEMBER -OR PURI IN -EDGE MEMBER OR PURLIN (2) #10x2" INTO BEAM BFAM -BRACE – 0.0625" 6063-T6 FLAT PLATE w/(8) #10x.75" SMS, MIN. .5" EDGE DISTANCE, PLATE MAY BE FASTENED INTERNALLY TO BRACE TO CORNER PURLIN 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"

DETAIL A

TAMIAMI TRAIL, UNIT 101 CHARLOTTE, FLORIDA 33952 (941) 391-5980 ENGINEERING ORIDA 4161 PORT

101

CA CERT.

2219549

PROJECT NO.

WILLIAMS 1999 S MARION AVE LAKE CITY, FL 32025

07/16/2022

DATE

SHEET:

PROJECT ADDRESS:

DATE

MBG

NTS

www.flengineeringllc.com

SCREENWORKS INC

DESIGN DATE:

REVISION 1:

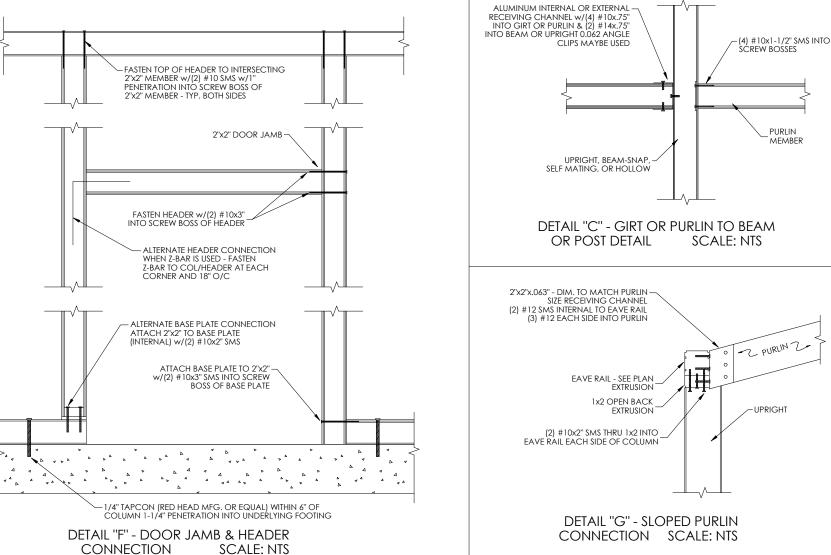
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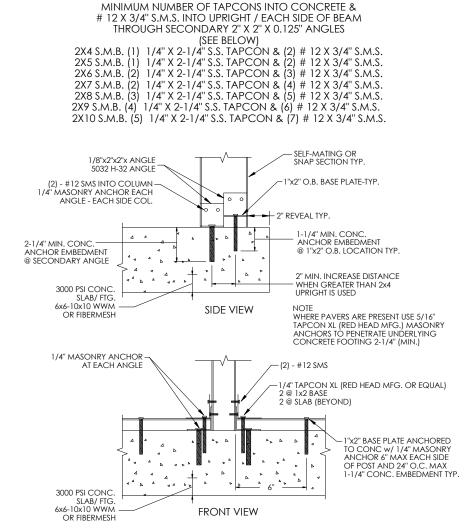
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SCALE:

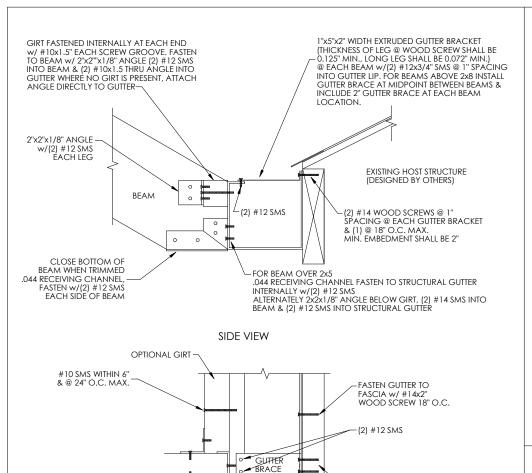
CONTRACTOR

(3) #12 EACH SIDE INTO PURLIN ~ PURLIN Z EAVE RAIL - SEE PLAN_ EXTRUSION 1x2 OPEN BACK -UPRIGHT (2) #10x2" SMS THRU 1x2 INTO EAVE RAIL EACH SIDE OF COLUMN





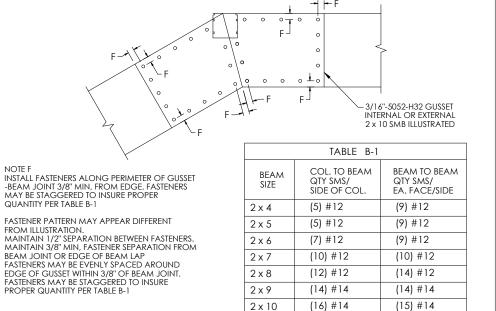
DETAIL "B" - 2"x4" OR LARGER SELF MATING UPRIGHT TO DECK DETAILS SCALE: NTS



DETAIL "H" BEAM TO GUTTER CONNECTION SCALE: NTS

TOP VIEW

2x2x1/8" ANGLE EA. SIDE OF BEAM W/(2) #12 SMS EACH LEG EACH SIDE

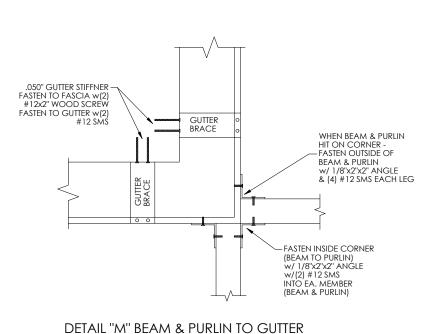


(2) #14x2" - WOOD SCREW @ 1" SPACING

STRUCTURAL

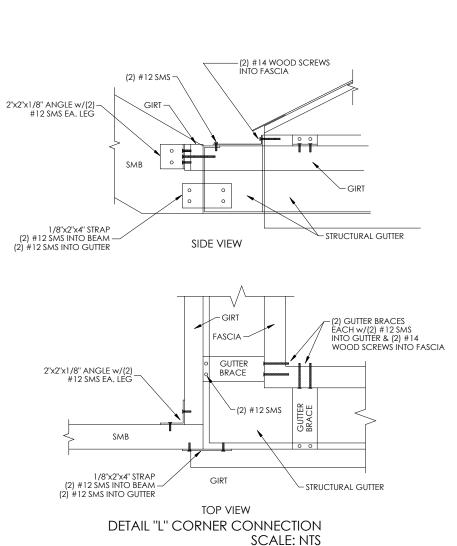
FASCIA (2"x6" MIN. EXISTING)

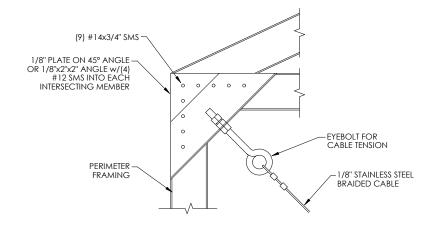
DETAIL "K" GUSSET CONNECTION **SCALE: NTS**



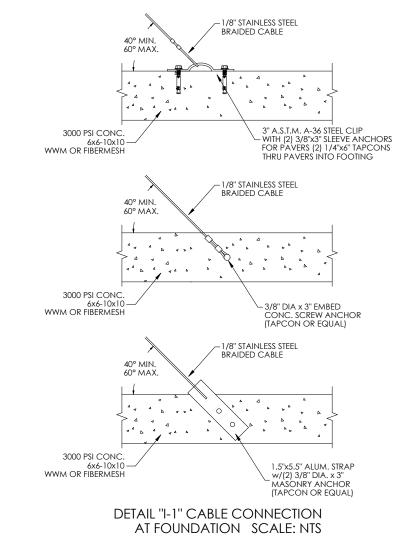
SCALE: NTS

CONNECTION









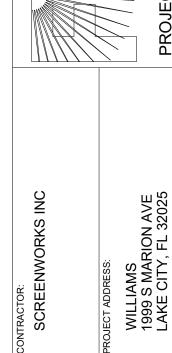


101

CA CERT.

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PROJECT NO.



CONTRACTOR DESIGN DATE: 07/16/2022 REVISION 1: DATE DATE SHEET:

REVISION 2: DRAWN BY: MBG SCALE: