FOUNDATION NOTES:

EXISTING 8" THICK CONCRETE SLAB

NOTE:

CONTRACTOR CAN USE BIGGER SECTIONS FOR BEAMS AND COLUMNS

NOTE:

CONTRACTOR TO VERIFY SIZE OF EXISTING SLAB

DESIGN CALCULATION:

BASIC WIND SPEED (RISK CATEGORY II) 175 MPH
DESIGN BASED ON CATEGORY II
EXPOSURE CATEGORY: D
3-SEC PEAK GUST IN MPH
DESIGNED BASED ON 6005-T5 OR 6061-T6 ALUMINUM
ROOF PRESSURE (SOLID) : 35 PSF

NOTE:

OWNER TO KEEP THE LOUVERED OPEN DURING THE HURRICANE EVENT

NOTE:

ANY ISSUES RELATED TO LEAK, SEALANT, OR DRAINAGE TO BE DESIGNED BY OTHERS.

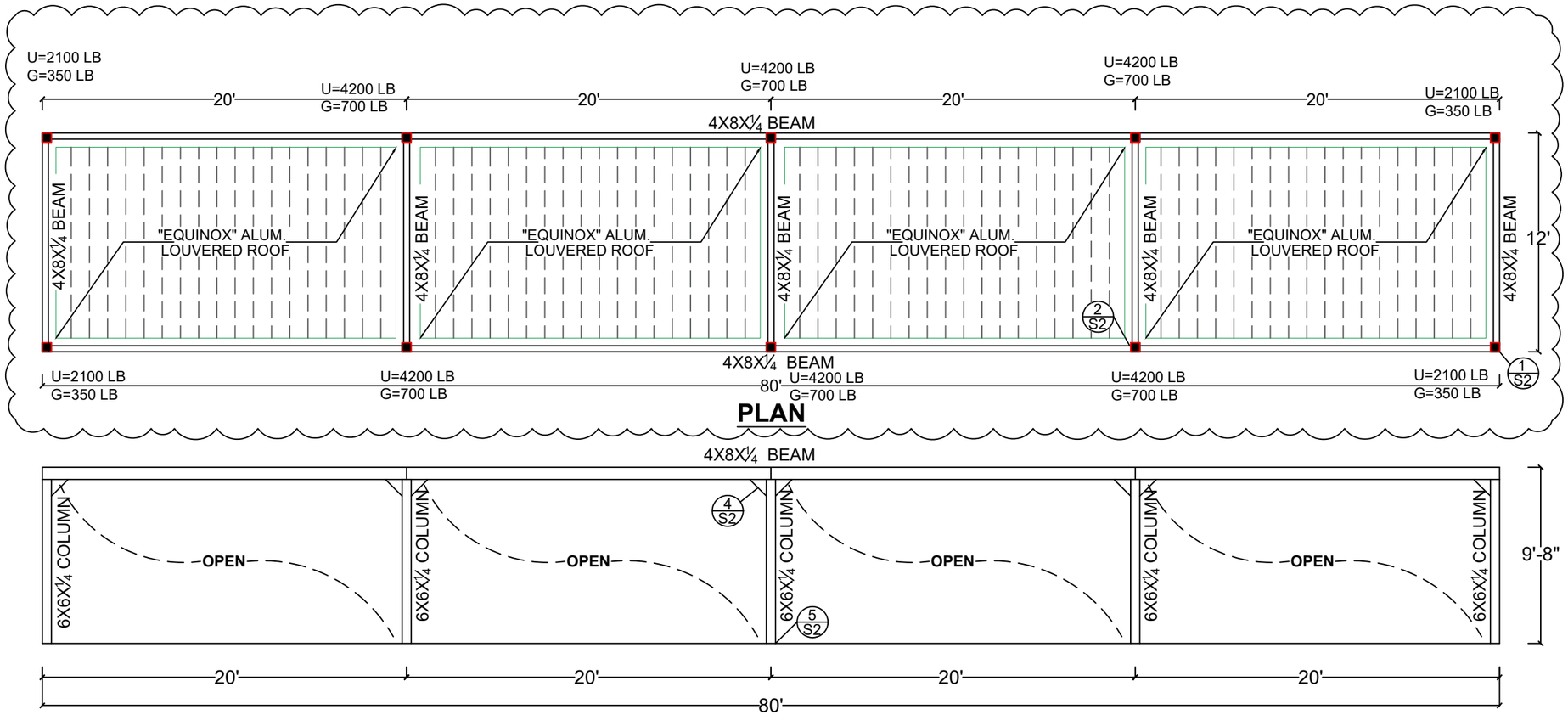
**DISCLAIMER :**

- CALC ENGINEERING DID NOT CHECK THE EXISTING STRUCTURE CAPACITY FOR ALL THE NEW LOAD, THAT MUST BE CHECKED BY BUILDING ENGINEER OR OTHERS.
- THIS IS ONLY DESIGN OF NEW STRUCTURE WITHOUT CHECKING THE SUB-STRUCTURE STRUCTURAL CAPACITY,
- CONTRACTOR/OWNER TO HIRE X-RAY COMPANY TO DETERMINE LOCATION OF PT SLAB CABLES BEFORE INSTALLATIONS OF THE STRUCTURES IN ROOFTOP IF THERE IS POSTS TENSIONED CONCRETE SLAB.

MASOOD HAJALI LICENSE No 82038 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by Masood Hajali PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

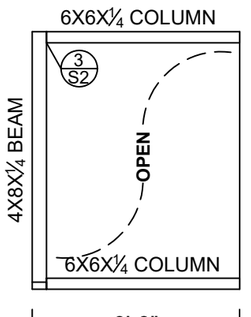
Digitally signed by MASOOD HAJALI
Date: 2022.08.02 22:04:03 -04'00'




## PLAN

## FRONT ELEVATION

(REAR ELEVATION SAME AS FRONT)




## RIGHT ELEVATION

(LEFT ELEVATION SAME AS RIGHT)

**GENERAL NOTES:**

- ALUMINUM SHALL BE 6063-T6 ALLOY ASTM A653 WITH MIN YIELD STRENGTH OF 45 KSI.
- ALL EXISTING SLABS AND FOOTING CONCRETE MUST BE WITHOUT ANY CRACK OTHERWISE NEED TO BE INSPECTED BY CALC ENGINEERING.
- ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED AND INTACT CONCRETE SURFACE.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.

GENERAL NOTES:

- WIND PRESSURES HAVE BEEN DETERMINED BASED ON ASCE 7-16, WIND SPEED OF 175 MPH, EXPOSURE D.
- THIS STRUCTURE HAS BEEN DESIGNED AND MUST BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF FBC 2017. DESIGN CRITERIA OR SPANS BIGGER THAN STATED IN THE PLANS MAY REQUIRE ADDITIONAL CALCULATION AND CHANGE IN THE PLAN.
- CALC ENGINEERING SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE THE WORK AND DESIGN UPON DISCOVERY OF ANY INACCURATE INFO PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.
- NO EXTRA LOAD IS PERMITTED TO APPLY ON THE STRUCTURE AT THE TIME OF INSTALLATION.
- CONTRACTOR SHALL CAREFULLY CONSIDER POSSIBLE IMPOSING LOADS ON ROOF INCLUDING BUT NOT LIMITED TO ANY CONCENTRATED LOADS WHICH MAY JUSTIFY GREATER DESIGN CRITERIA.
- ALL FASTENERS TO BE #10 OR GREATER ASTM F593 COLD WORKED 304 STAINLESS STEEL UNLESS NOTED OTHERWISE.
- ALL ANCHORS FOR ALUMINUM SHALL BE SPACED WITHIN 2 TIMES DIAMETER END DISTANCE AND 2 TIMES DIAMETER MIN SPACING TO ADJUST ANCHORS.

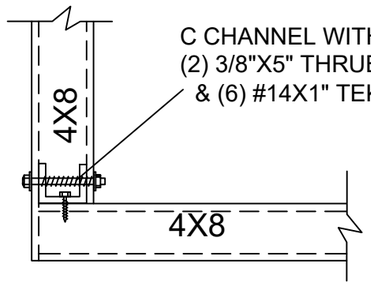
DESIGN IS BASED ON FBC 2020, 7TH EDITION

DATE: 07/16/21
SCALE: N.T.S.
DSN: JFAS
DRG: JC

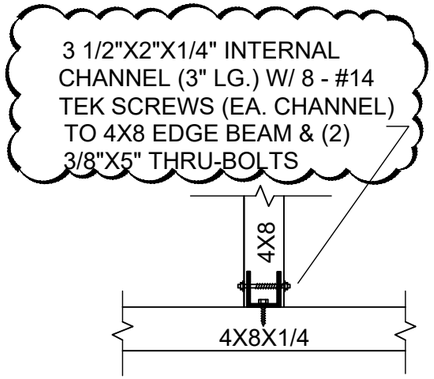
ALUMINUM LOUVERED ROOF FOR:
PLAZA SOUTH
4280 GALT OCEAN DR
FORT LAUDERDALE, FL 33308
CONTRACTOR: ALUMICENTER INC.
PROJECT NUMBER: 2021-330025

CALC ENGINEERING
2000 NW 89 PL UNIT 102
DORAL FL 33172
Phone: (305) 898-9995
ENGINEERING BUSINESS
CA CERTIFICATION: 32566

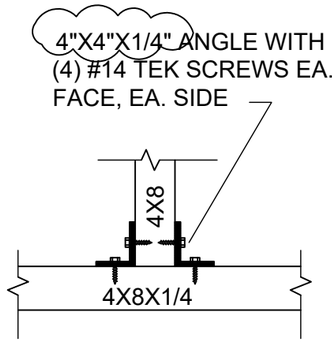
Calc Engineering



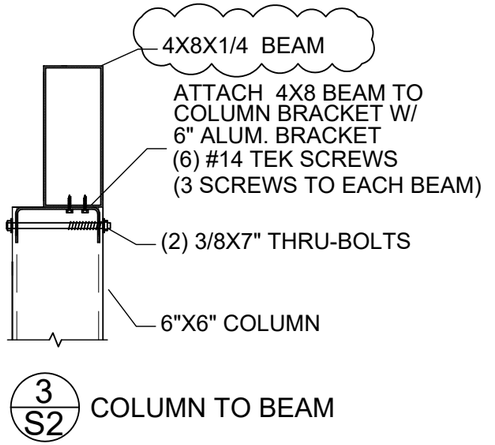

1/S2 4X8 TO 4X8 BEAM AT CORNERS



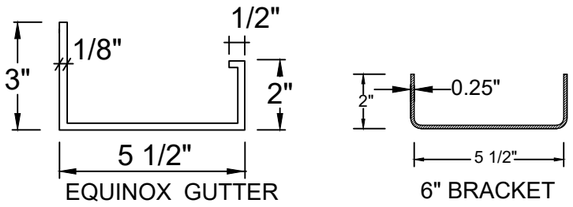

2/S2 BEAM TO BEAM




2/S2 BEAM TO BEAM (OPTIONAL)




3/S2 COLUMN TO BEAM

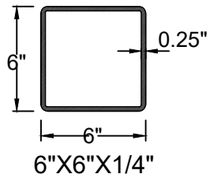



EQUINOX GUTTER

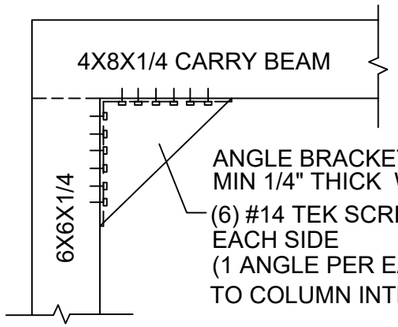
ATTACH GUTTER TO BEAMS AND HEADER WITH # 14 TEK SCREWS @ 8" O.C. (MAX.)



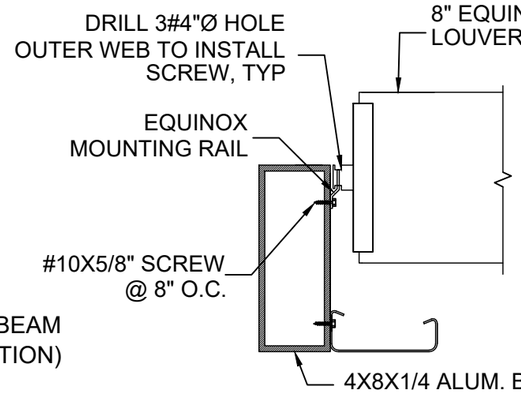

6" BRACKET



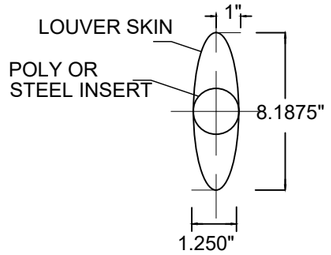

6"X6"X1/4"



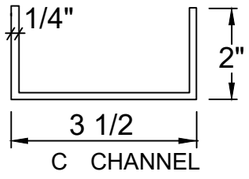

4/S2 CORNER BRACKET

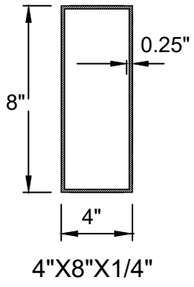



EQUINOX LOUVER TO MOUNTING RAIL TO BEAM CONNECTION

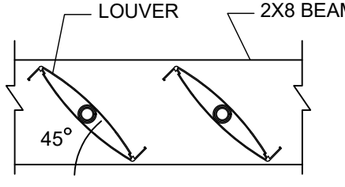



EQUINOX ALUMINUM LOUVER EXTRUSION

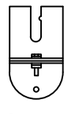


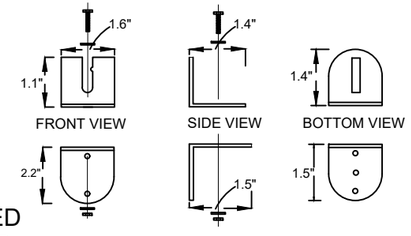

4"X8"X1/4"



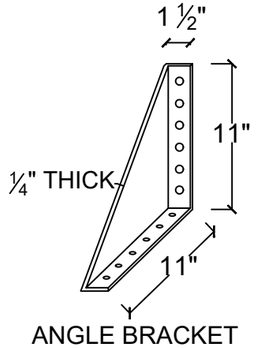

LOUVER SPACING



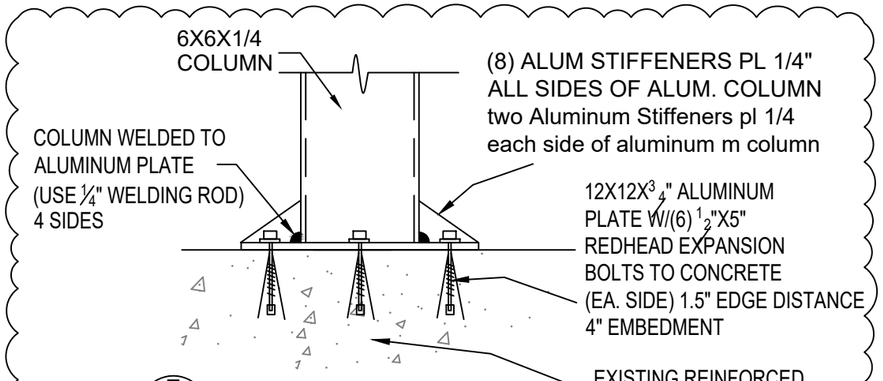
ASSEMBLED PIVOT CLIP




EQUINOX PIVOT CLIP




ANGLE BRACKET




5/S2 COLUMN ATTACHED

NOTE:

OWNER TO KEEP THE LOUVERED OPEN DURING THE HURRICANE EVENT

DESIGN IS BASED ON FBC 2020, 7TH EDITION

DATE: 07/16/21
SCALE: N.T.S.
DSN: M.H.
DRG: JC

S-2

ALUMINUM LOUVERED ROOF FOR:
PLAZA SOUTH
4280 GALT OCEAN DR
FORT LAUDERDALE, FL 33308
CONTRACTOR: ALUMICENTER INC.
PROJECT NUMBER: 2021----

MASOOD HAJALI LICENSE No 82038 STATE OF FLORIDA PROFESSIONAL ENGINEER

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