RICHARD NEET, P.E. PE# 86488 CA# 9885

IN ALL CASES, CERTIFYING ENGINEER AND CERT OF AUTH AS LISTED ON STAMP

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SCALE: NTS UNLESS NOTE

TRUEFORM CONCRETE, LLC 321 RICHARD MINE RD. SUITE 400 WHARTON, NJ BRACKET LOAD CAPACITY MASTER PLAN SHEET FLORIDA/INTERNATIONAL BUILDING

GENERAL NOTES:

ALL WORK SPECIFIED HEREIN HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) AN THE 2018 IBC. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY AND GOVERN. DESIGN CRITERIA OR SPANS BEYOND STATED HEREIN
MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING.

THE HOST STRUCTURE IS ASSUMED TO BE ADEQUATE TO WITHSTAND THE LOADS IMPOSED BY THIS DESIGN. THE CONTRACTOR/BUILDING OFFICIAL SHALL VERIFY THAT THE SUBSTRATE IS SOUND FOR INSTALLATION OF THIS SYSTEM.

ALL MATERIALS USED, FABRICATION & INSTALLATION METHODS SHALL CONFORM TO THE MANUFACTURER'S PUBLISHED AND APPROVED REQUIREMENTS.

ALL STEEL MEMBERS SHAL CONFORM TO ASTM A36 AND CURRENT EDITION OF AISC. UNLESS NOTED

ALL WELDING TO BE DONE BY A CERTIFIED WELDER AND CONFORM TO AISC STEEL CONSTRUCTION

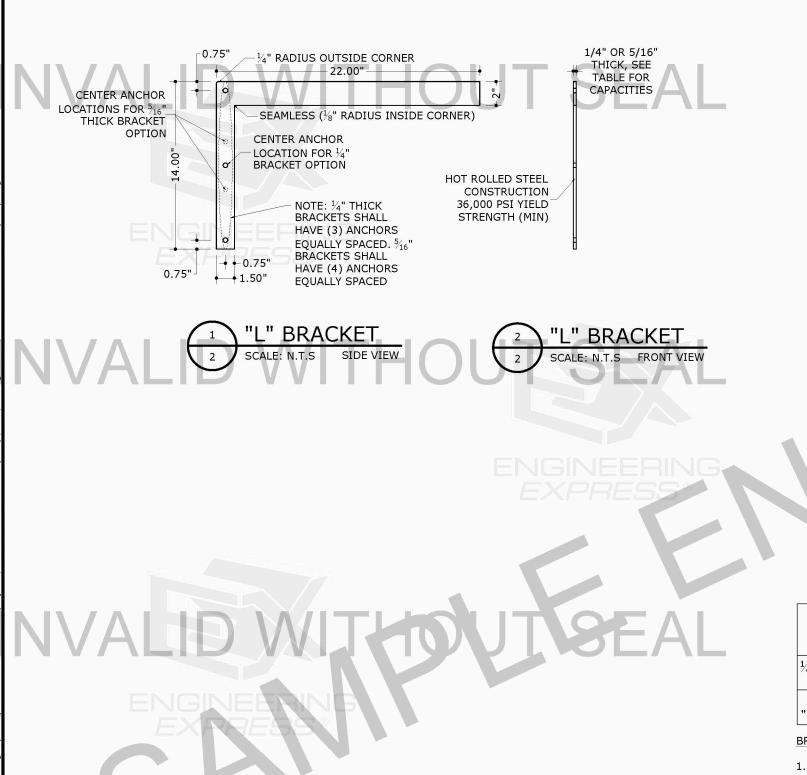
THE CONTRACTOR IS RESPONSIBLE TO INSULATE DISSIMILAR METALS TO PREVENT ELECTROLYSIS.
THIS DOCUMENT IS GENERIC AND DOES NOT PERTAIN

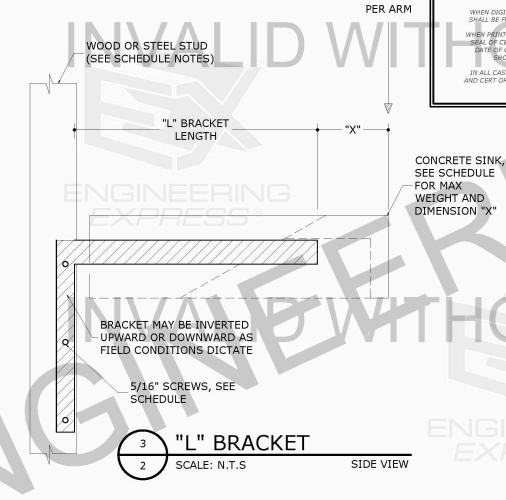
TO ANY SPECIFIC PROJECT SITE. INFORMATION HEREIN IS CONTRACTOR-SUPPLIED DATA AND MEASUREMENTS. ENGINEERING EXPRESS SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT MUST REMAIN WITHIN THE LIMITATIONS SPECIFIED HEREIN. WORK SHALL BE FIELD VERIFIED BY OTHERS PRIOR TO CONSTRUCTION. ENGINEERING EXPRESS SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.

ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY THE PERMIT HOLDER/CONTRACTOR, et. al. INDEMNIFIES, DEFENDS, & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.

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10. EXCEPT AS EXPRESSLY PROVIDED IN HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE





BRACKET TYPE	SINK MAX WEIGHT (LBS)	SINK MAX "X" DIMENSION (IN)	MAX "P" LOAD PER ARM (LBF)	ALLOW "P" AFTER SINK (LBF)	SCREW TYPE (WOOD STUD)	SCREW TYPE (STEEL STUD)
4" THICK "L" BRACKET	100	5	175	125	5/16" DIAM, LAG SCREW	5/16" DIAM, SMS
½16" THICK "L" BRACKET	244	E E 5	247	125	5/16" DIAM, LAG SCREW	5/16" DIAM, SMS

BRACKET SCHEDULE NOTES:

- 1. ANCHOR PENETRATION INTO WOOD STUD SHALL BE MIN. OF 1.25" WITH EDGE DISTANCE OF 1" MIN.
- ANCHOR INTO STEEL STUD SHALL BE PLACED USING \S_{16} " Ø SMS OR UNC SCREWS OR BOLTS PER MANUFACTURER'S SPECIFICATIONS WITH EDGE DISTANCE OF 3/4" MIN.
- STEEL STUDS SHALL BE MINIMUM 20ga (0.036") AND Gr 33 (FY=33 KSI MIN).
- WOOD STUDS SHALL HAVE A SG = 0.55 MIN
- SCREWS/ANCHOR SHALL BE Gr 2 MIN
- BRACKET CAPACITY IS PER ARM, TOTAL SYSTEM CAPACITY IS NUMBER OF ARM MULTIPLY BY CAPACITY SHOWN IN SCHEDULE.
- 7. MAX "P" LOAD IS BASED ON SINK "X", INCREASING IN X DIMENSION WILL DECREASE MAX "P" 8. LIGHTER SINKS WILL INCREASE ALLOW "P". USE FOLLOWING EQUATION: MAX "P" SINK WEIGHT/2= ALLOW "P"



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RICHARD NEET, P.E.

"P" FORCE

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SPACE RESERVED FOR DIGITAL SEAL INFORMATION

WHEN PRINTED OR PHYSICALLY SEALED, SEAL OF CERTIFYING ENGINEER, AND DATE OF CERTIFICATION SHALL BE

SHOWN TO THE RIGHT.

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MARCH 7, 2022

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