

GENERAL NOTES:

1. THIS PRODUCT APPROVAL DOCUMENT (P.E.D.) FOR NEWTECHWOOD CLADDING PANEL US09 SYSTEM, INDICATED AND SPECIFIED ON THIS DRAWING, HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. DESIGN WIND LOADS FOR EACH INSTALLATION SHALL BE DETERMINED AS PER SECTIONS 1620 & 1609 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 STANDARD AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON THIS SHEET.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.
- IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. A DURATION FACTOR CD=1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD.
- NEWTECHWOOD CLADDING PANEL US09 PROFILES' ADEQUACY FOR WIND AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER BLACKWATER TESTING INC. REPORT #BT-NTW 18 001 PER TAS 202 & 203 PROTOCOLS, AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 AND 1604 OF THE FLORIDA BUILDING CODE. SEE NOTE 8 BELOW FOR ADDITIONAL TESTING PERFORMED ON PRODUCT.
2. BUILDING WALL SYSTEM WHERE CLADDING PANELS WILL BE INSTALLED SHALL BE DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT AND SHALL BE BUILT IN ACCORDANCE WITH THE FLORIDA BUILDING CODE FOR IMPACT, WIND & WATER RESISTANCE AS PER SECTIONS 1626.4(1), 1404.4, 1404.6 AND 1626.4(2), 1404.2 OF THE FLORIDA BUILDING CODE. SEE NOTES ON SHEET 5 FOR ADDED LIMITATIONS & CONDITIONS FOR WOOD FRAME WALLS.
3. MAXIMUM A.S.D. DESIGN WIND PRESSURE RATING FOR THIS PRODUCT IS +150 , -150 p.s.f. *
- * PROFILES TO BE CONTINUOUS MIN. OVER 3 SPANS.
4. COMPONENTS FOR THIS PRODUCT SHALL BE AS INDICATED ON SHEET 2 OF THIS DRAWING.
5. SUBSTRUCTURE (COMPONENTS # 9A & 9B) PROVIDING SUPPORT TO NEWTECHWOOD CLADDING PANEL US09 SYSTEM MUST BE PROPERLY ANCHORED TO TRANSFER LOADS TO THE EXISTING STRUCTURAL WALL OR CEILING SYSTEM. SUBSTRUCTURE PROFILES MUST BE AS INDICATED ON BILL OF MATERIALS SHEET 2, AND SHALL BE SPACED AS PER DETAILS ON SHEETS 3 & 4.
6. THIS PRODUCT'S INSTALLATION SHALL COMPLY WITH ALL SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
7. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT: i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.E.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED IN THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.E.D. WILL BE CONSIDERED INVALID IF MODIFIED.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARE BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.. PROFESSIONAL OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- (e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.
8. CLADDING PANEL US09 SYSTEM PROFILES ARE MADE OF A TECHNOLOGICAL WOOD MATERIAL COMPOSED OF THE COMBINATION OF A PVC COMPONENT AND WOOD FIBERS TO CREATE A MATERIAL WITH A DIMENSIONAL STABILITY THAT IS MUCH GREATER THAN BOTH TRADITIONAL WPC AND WOOD ITSELF.

PANEL HAS NO PROBLEM RESISTING WATER BECAUSE 80% OF THE WOOD FIBERS ARE COATED BY THE POLYMERIC COMPONENT (PVC AND OTHER ELEMENTS IN THE FORMULA) AND ITS ALSO COATED WITH A CAP LAYER MADE OF POLYETHYLENE BASED COMPOUNDED POLYMER W/58 HARDNESS, PROVIDED BY NEWTECHWOOD AMERICA, INC. CONTAINS NO TOXIC MATERIALS, IS LEED COMPLAINT (SUSTAINABILITY) AND IS NOT SUBJECT TO THE DESTRUCTIVE ACTION OF WOODWORM, FUNGI AND PARASITES. THERMAL EXPANSION MUST BE CONSIDERED DEPENDING ON PANEL LENGTH BY USING COEFFICIENT OF THERMAL EXPANSION LISTED BELOW.

PANEL MATERIAL FIRE BURNING CHARACTERISTICS AND WEATHERING HAVE BEEN VERIFIED AS FOLLOWS:

QUALIFICATION	TEST METHOD	TEST RESULT
DENSITY	ASTM D 2395	1.14 gr/cm³ (71.1lb/ft³)
BENDING STRENGTH	ASTM D 4761	3,000 psi
MODULUS OF ELASTICITY	ASTM D 4761	493,000 psi
COEFFICIENT OF LINEAR THERMAL EXPANSION	ASTM D 696	35.6 x10 ⁻⁶ mm/mm °C
WATER ABSORPTION AND HUMIDITY	ASTM D 1073	LITTLE UP TO NO WATER ABSORPTION. (0.11 %) (ONLY SURFACE MOISTURING)
FLAME SPREAD	ASTM E 84	80 (CLASS C)*
SMOKE INDEX	ASTM E 84	300 (CLASS C)*
RATE, EXTENT & TIME OF BURNING	ASTM D 635	CC1 *
SPONTANEOUS SELF/IGNITION TEMP.	ASTM D 1929	820° F *
FLASH IGNITION TEST	ASTM D 1929	800° F *
WEATHERING FOR OUTDOOR EXPOSURE	ASTM G 155 ASTM D 638	9.1% **

* TEST # RJ6449F-1, RJ6449F-2 & RJ6449F-3 BY QAI LAB.

** PER BLACKWATER TESTING INC. REPORT # BT-NTW-19-001

9. PRODUCT MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE AT PLANK LOCATION IN ACCORDANCE WITH SECTION 1703.5 OF THE FLORIDA BUILDING CODE.

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

Y.M.
DRAWN BY:
7/14/2023
DATE:

23-110
DRAWING No.
SHEET 1 OF 5

NEW TECH WOOD WALL CLADDING PANEL
US09 SYSTEM

NewTechWood America Inc.
15912 INTERNATIONAL PLAZA DRIVE
HOUSTON, TEXAS 77032

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, Virginia Gardens, FL 33166
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No. 44167
STATE OF FLORIDA
7/14/2023
PROFESSIONAL ENGINEER

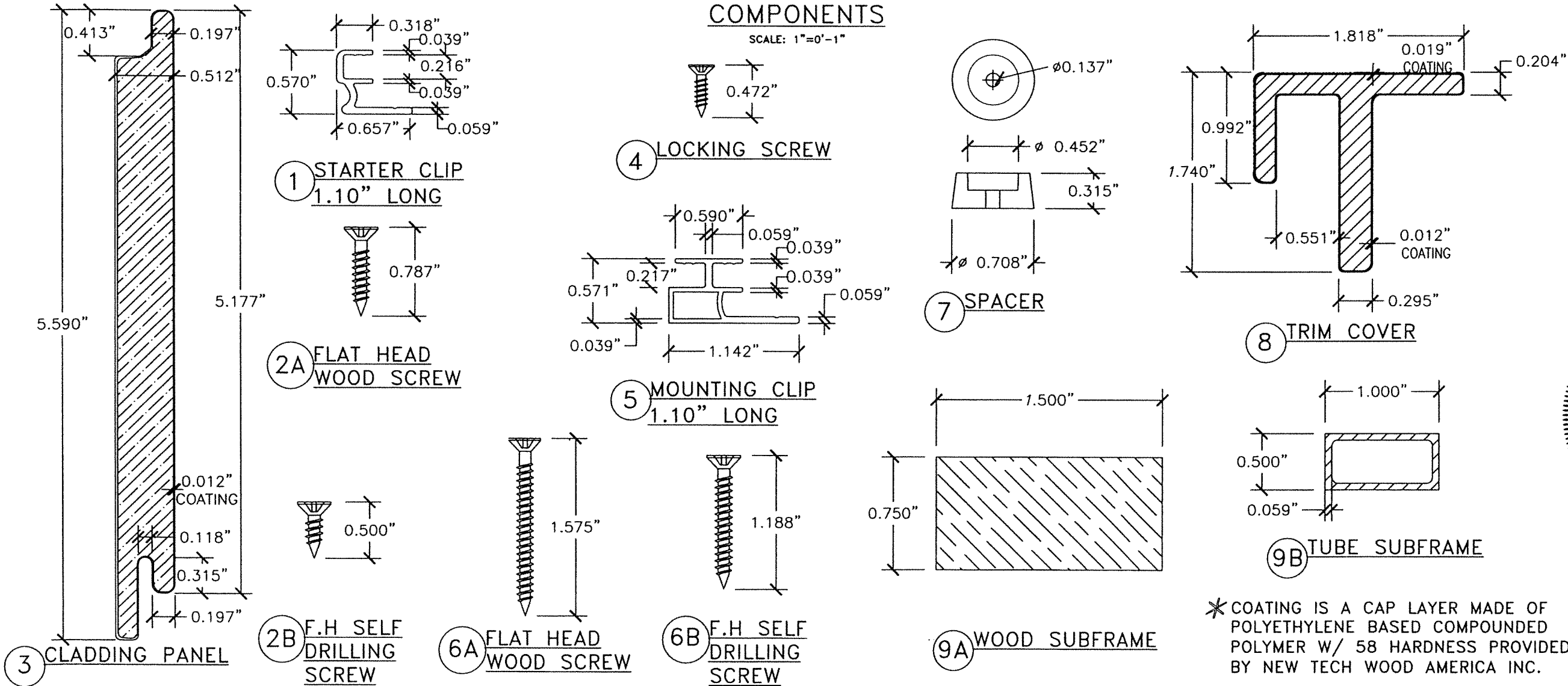
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BILL OF MATERIALS

COMPONENT No.	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
①	STARTER CLIP	SEE COMPONENT DETAIL	6063-T5 ALLOY	NEW TECH WOOD	RAW FINISH LENGTH MODEL#AW02
②A	FLAT HEAD WOOD SCREW	#8-18 X 3/4"	AISI 304 STAINLESS STEEL	NEW TECH WOOD	TO FIX ①, ⑤ & ⑦ TO ⑨A
②B	FLAT HEAD SELF DRILLING SCREW	#8-18 X 1/2"	AISI 401 STAINLESS STEEL	NEW TECH WOOD	TO FIX ①, ⑤ & ⑦ TO ⑨B
③*	CLADDING PANEL	SEE COMPONENT DETAIL	COMPOSITE PLASTIC WOOD NEW TECH WOOD	NEW TECH WOOD	CLADDING SYSTEM MODEL#US09
④	LOCKING SCREW	#4 X 1/2"	AISI 401 STAINLESS STEEL	NEW TECH WOOD	TO FIX ③ TO ⑤
⑤	MOUNTING CLIP	SEE COMPONENT DETAIL	6063-T5 ALLOY	NEW TECH WOOD	USE IN BETWEEN ③ MODEL#AW08
⑥A	FLAT HEAD WOOD SCREW	#10-16 X 1 1/2"	AISI 304 STAINLESS STEEL	NEW TECH WOOD	TO FIX ③ TO ⑨A
⑥B	FLAT HEAD SELF DRILLING SCREW	#10-16 X 1 3/16"	AISI 401 STAINLESS STEEL	NEW TECH WOOD	TO FIX ③ TO ⑨B
⑦	SPACER	SEE COMPONENT DETAIL	RUBBER	NEW TECH WOOD	USE AT END, OPTIONAL TO ⑧, W/ ②A, ②B TO ⑨A, ⑨B MODEL#T-7
⑧*	TRIM COVER	SEE COMPONENT DETAIL	COMPOSITE PLASTIC WOOD NEW TECH WOOD	NEW TECH WOOD	USE AT END, OPTIONAL TO ⑦, W/ ②A, ②B TO ⑨A, ⑨B MODEL#US-44. CONT.
⑨A	WOOD SUBFRAME	2.00" X 1.00" (NOMINAL) X CONT.	P.T. SOUTHERN PINE #2(G=0.55)	-	SUPPORT FOR ③ FIXED TO EXISTING STRUCTURE W/ ⑩
⑨B	TUBE SUBFRAME	1.00" x 0.50" x 0.059" THK.	6063-T5 ALLOY	NEW TECH WOOD	SUPPORT FOR ③ FIXED TO EXISTING STRUCTURE W/ ⑩
⑩	FASTENERS FOR ⑨A, ⑨B	1/4"Ø FLAT HEAD ULTRACONS	AISI 410 STAINLESS STEEL	ELCO CONST. PRODUCTS	SEE ANCHOR SCHEDULE ON SHEET 5

COMPONENTS

SCALE: 1"=0'-1"



* COATING IS A CAP LAYER MADE OF POLYETHYLENE BASED COMPOUNDED POLYMER W/ 58 HARDNESS PROVIDED BY NEW TECH WOOD AMERICA INC.

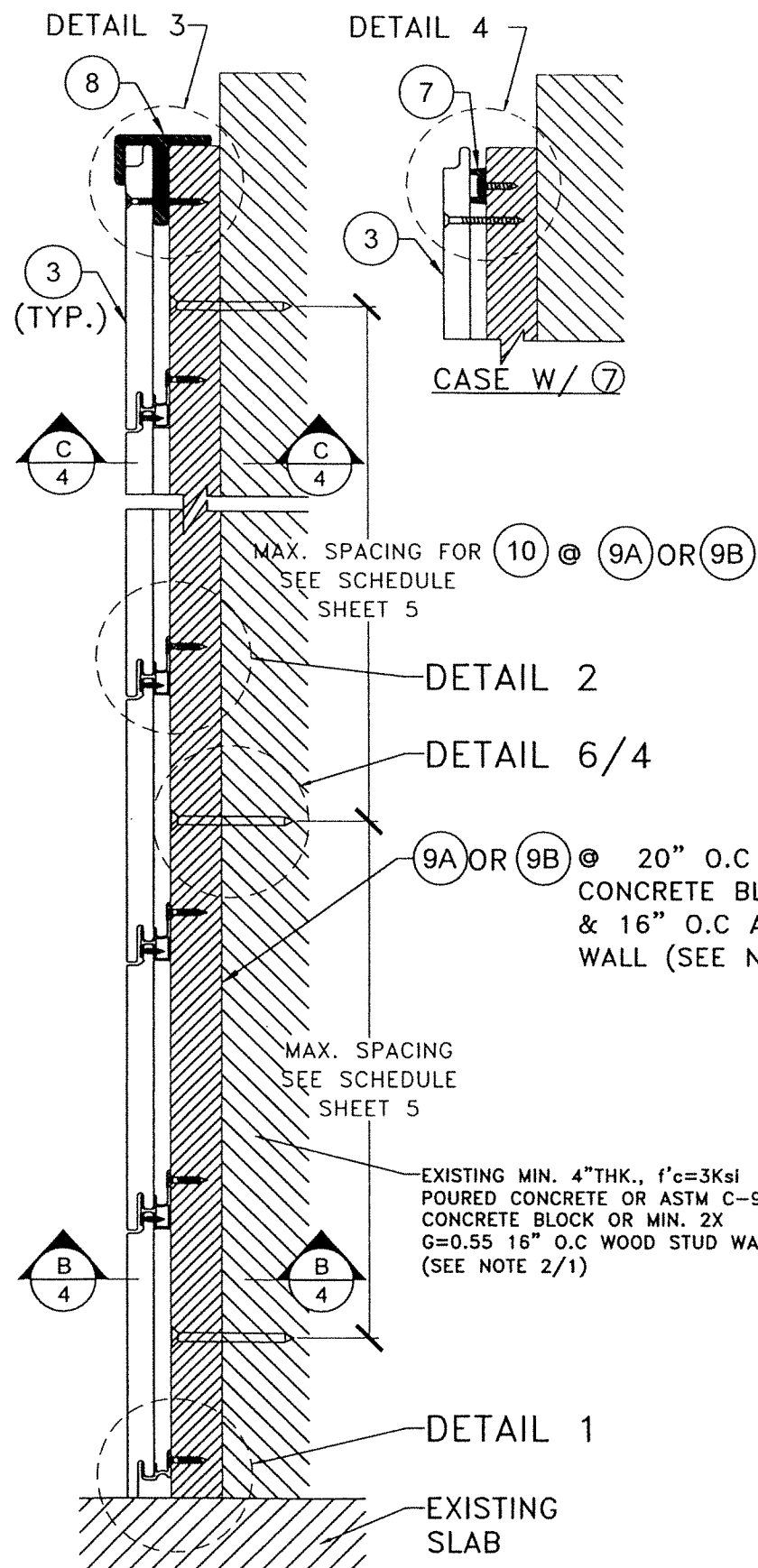
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Y.M.
DRAWN BY:
7/14/2023
DATE:
23-110
DRAWING NO.
SHEET 2 OF 5

NEW TECH WOOD WALL CLADDING PANEL
US09 SYSTEM
NewTechWood America Inc.
15912 INTERNATIONAL PLAZA DRIVE
HOUSTON, TEXAS 77032

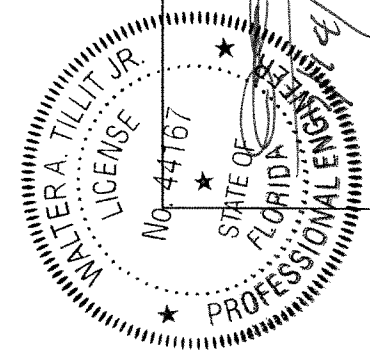
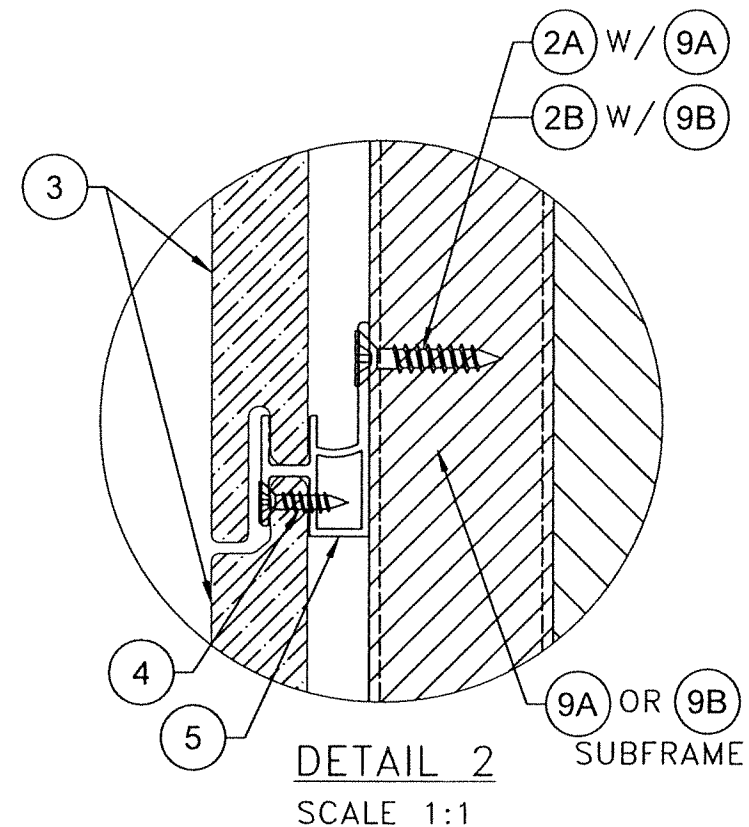
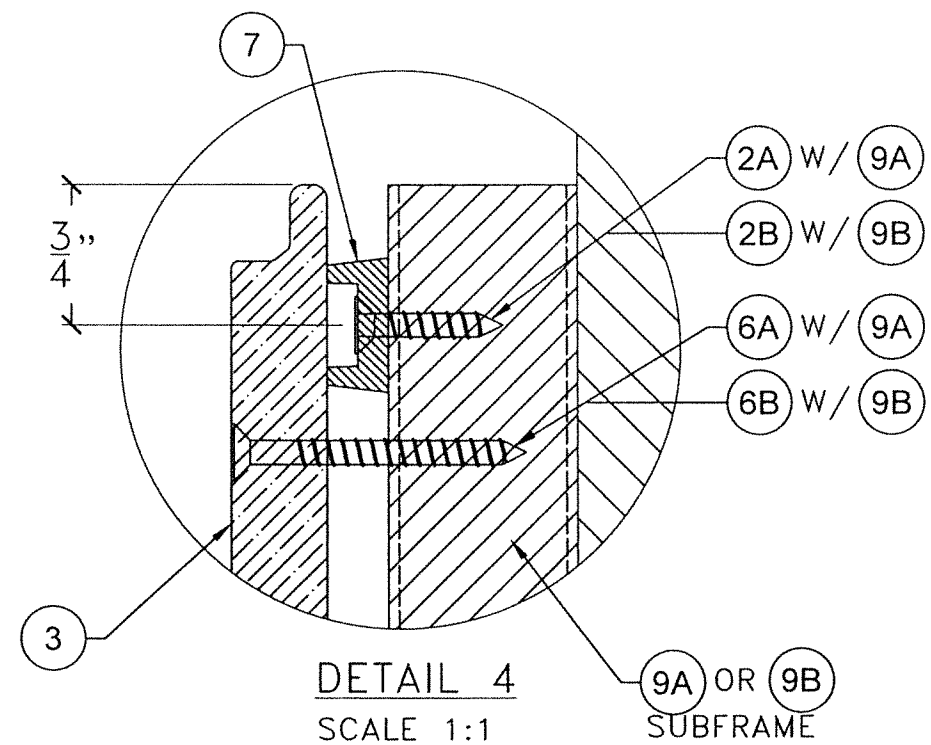
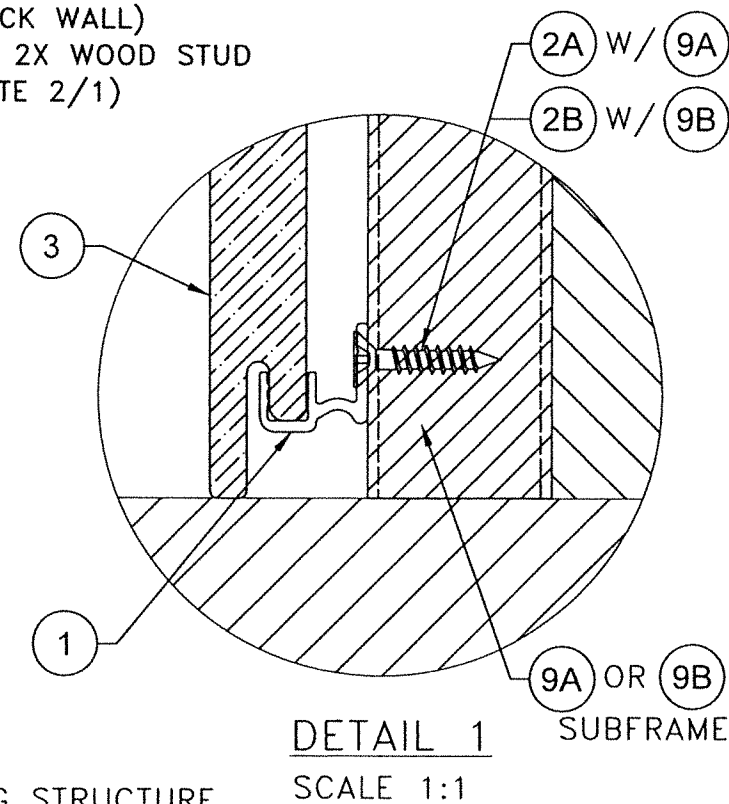
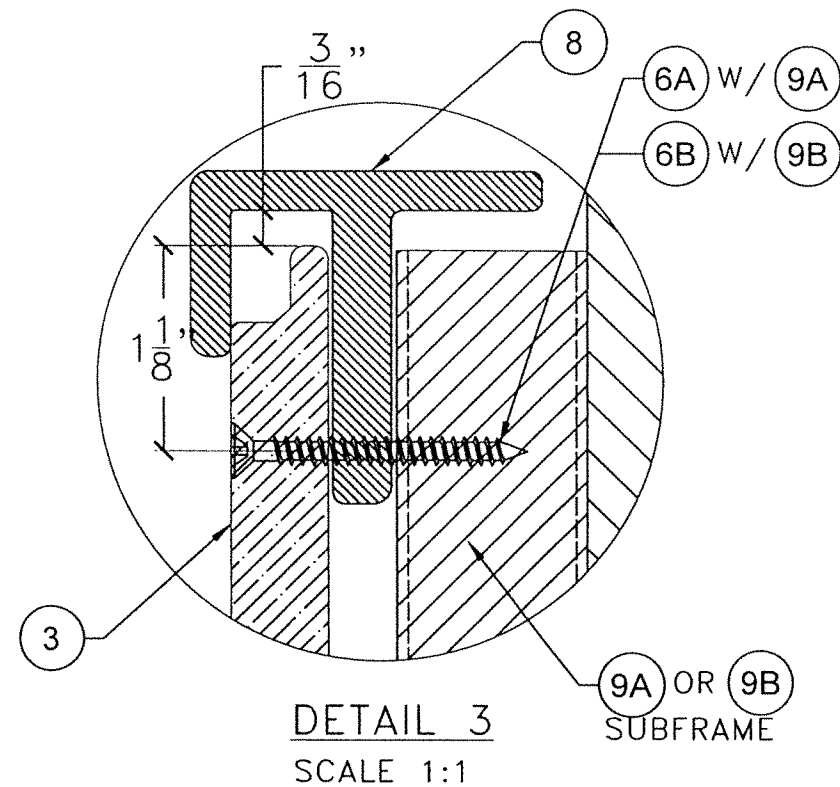
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P.E. SEAL/SIGNATURE/DATE



TYPICAL CONNECTION OF 9A & 9B TO EXISTING STRUCTURE
(VERTICAL SECTION)

N.T.S



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

NEW TECH WOOD WALL CLADDING PANEL
US09 SYSTEM

NewTechWood America Inc.
15912 INTERNATIONAL PLAZA DRIVE
HOUSTON, TEXAS 77032

DATE: 7/14/2023

DRAWING No. 23-110

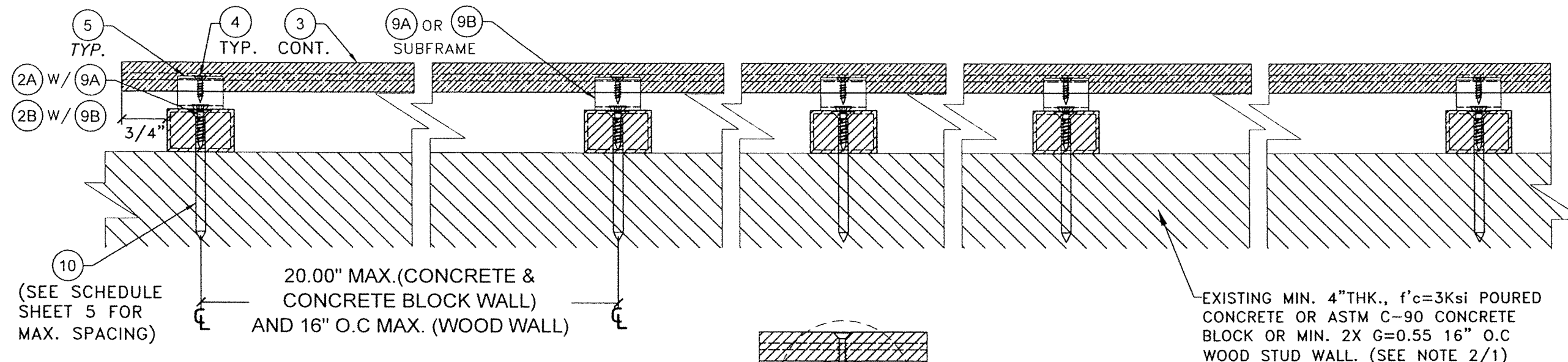
SHEET 3 OF 5

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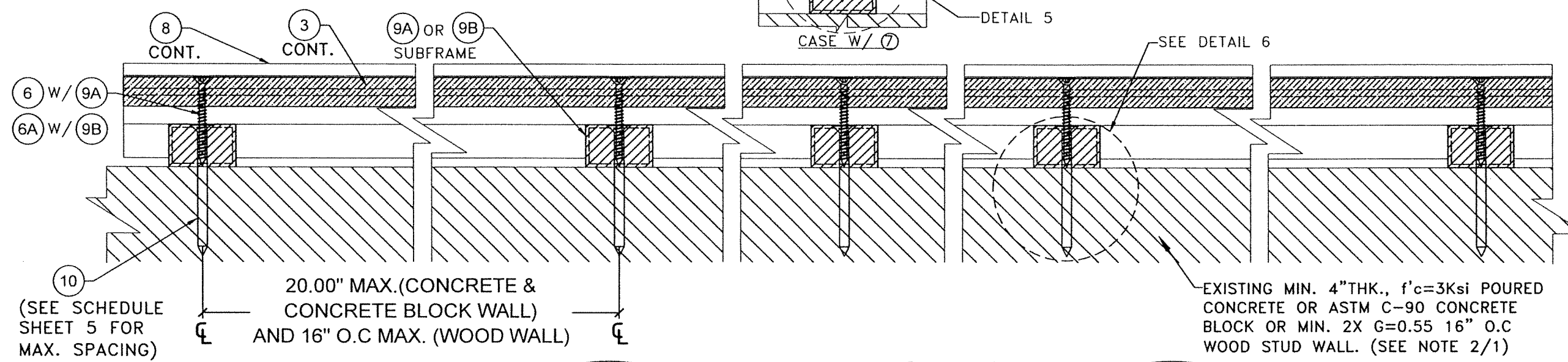
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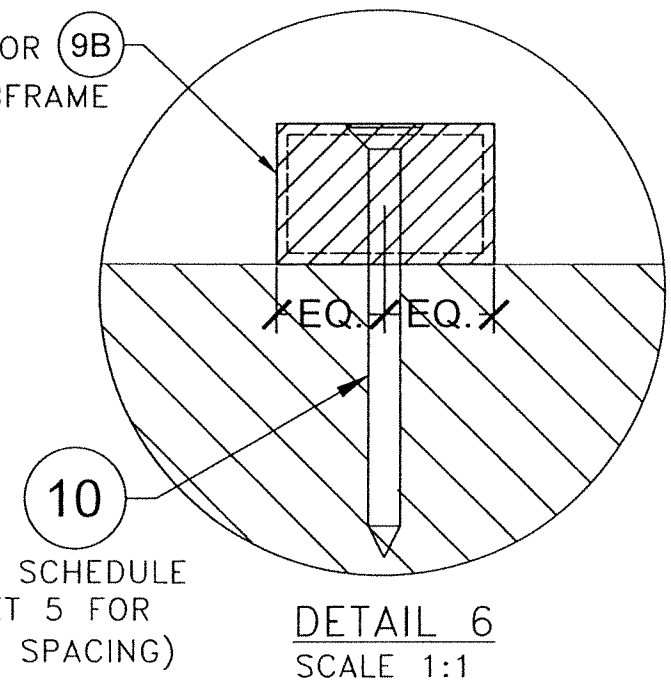
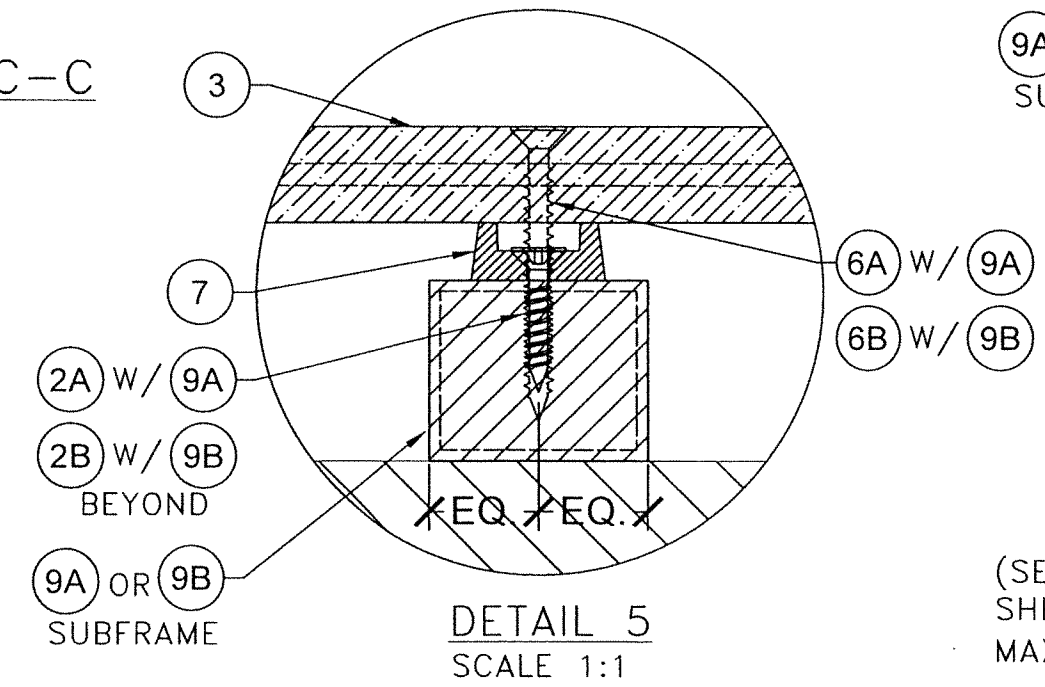
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SECTION B-B
N.T.S



SECTION C-C
N.T.S



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

Y.M.	7/14/2023	DATE:
DRAWN BY:	7/14/2023	DATE:
23-110	DRAWING NO.	SHEET 4 OF 5
NEW TECH WOOD WALL CLADDING PANEL US09 SYSTEM	DESCRIPTION	REV. NO.
NewTechWood America Inc.	15912 INTERNATIONAL PLAZA DRIVE HOUSTON, TEXAS 77032	REV. NO.
1	2	3
1	2	3

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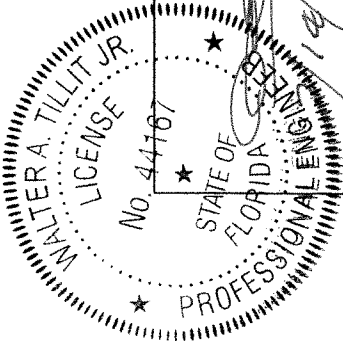
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PROFESSIONAL ENGINEER
2023
P.E. SEAL/SIGNATURE/DATE

ANCHOR SCHEDULE:

ANCHOR TYPE	SUBSTRATE AT WALL OR CEILING								
	CONCRETE MIN. f'c=3000 psi AT 28 DAYS			CONCRETE BLOCK WALL ASTM C-90			WOOD MIN. G = 0.55		
	MIN. E.D.	MIN. EMB.	MAX. SPC.	MIN. E.D.	MIN. EMB.	MAX. SPC.	MIN. E.D.	MIN. EMB.	MAX. SPC.
10	1"	1 3/4"	12" O.C.	1"	1 1/4"	6" O.C.	3/4"	1"	12" O.C*

NOTE: MIN. E.D. & EMBEDMENT ARE BEYOND ANY FINISH MATERIAL AT EXISTING WALL (SEE NOTE 2/1)

- * - MUST COINCIDE WITH LOCATION OF EXISTING 2X WOOD STUDS SPACED @ 16" O.C @ EXISTING WALL (SEE NOTE 2/1).
- MAX. 12" O.C INDICATED SPACING IS VERTICAL SPACING ALONG EXISTING STUD'S HEIGHT.
 - MIN. 1" EMBEDMENT IS AT EXISTING 2X WOOD STUD BEYOND ANY EXISTING SHEATHING AND WALL FINISH.
 - FASTENER MUST BE INSTALLED AS MIDWIDTH OF EXISTING 2X STUD.



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HOUSTON, TEXAS 77032

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 20-199	7/14/2023	3	-	-
2	-	-	4	-	-

Y.M.
DRAWN BY:
7/14/2023
DATE:

23-110
DRAWING No.
SHEET 5 OF 5