JONES' PIER CONSERVATION AREA

HISTORIC RESIDENCE REHABILITATION TO HISTORIC MUSEUM

7770 JUNGLE TRAIL VERO BEACH, FLORIDA 32963

FOR

INDIAN RIVER COUNTY PARKS DIVISION INDIAN RIVER COUNTY, FLORIDA

August 18, 2023 BID PACKAGE

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INDEX OF DRAWINGS

1/0	Dwg. No	Drawing Name
\boxtimes	A <i>O</i> .10	COVER SHEET/INDEX OF DRAWINGS

ARCHITECTURAL DRAWINGS

Dwg. No Drawing Name

\boxtimes	AS0.10	SITE PLAN
\boxtimes	EC2.10	EXISTING CONDITIONS
\boxtimes	D2.10	DEMOLITION PLAN
\boxtimes	A2.10	FLOOR PLAN, SECTIONS & DETAILS
\boxtimes	A2.30	ENLARGED PLANS & DETAILS
\boxtimes	EC3.10	EXISTING ELEVATIONS
\boxtimes	A3.10	PROPOSED ELEVATIONS
\boxtimes	A4.10	PROPOSED ROOF PLAN
\boxtimes	A6.10	SCHEDULES

STR	RUCTURA	AL DRAWINGS
1/0	Dwg. No	Drawing Name
\boxtimes	1 of 7	STRUCTURAL NOTES
	2 of 7	FOUNDATION PLAN
	3 of 7	FLOOR FRAMING PLAN
	4 of 7	STRUCTURAL FLOOR PLAN & ROOF FRAMING PLAN
\boxtimes	5 of 7	STRUCTURAL PIERS & DETAILS

□ 4 of 7 STRUCTURAL FLOOR PLAN & ROOF FRAMIN
 □ 5 of 7 STRUCTURAL PIERS & DETAILS
 □ 6 OF 7 STRUCTURAL SECTIONS & DETAILS
 □ 7 OF 7 STRUCTURAL CROSS SECTION & DETAILS

MECHANICAL DRAWINGS

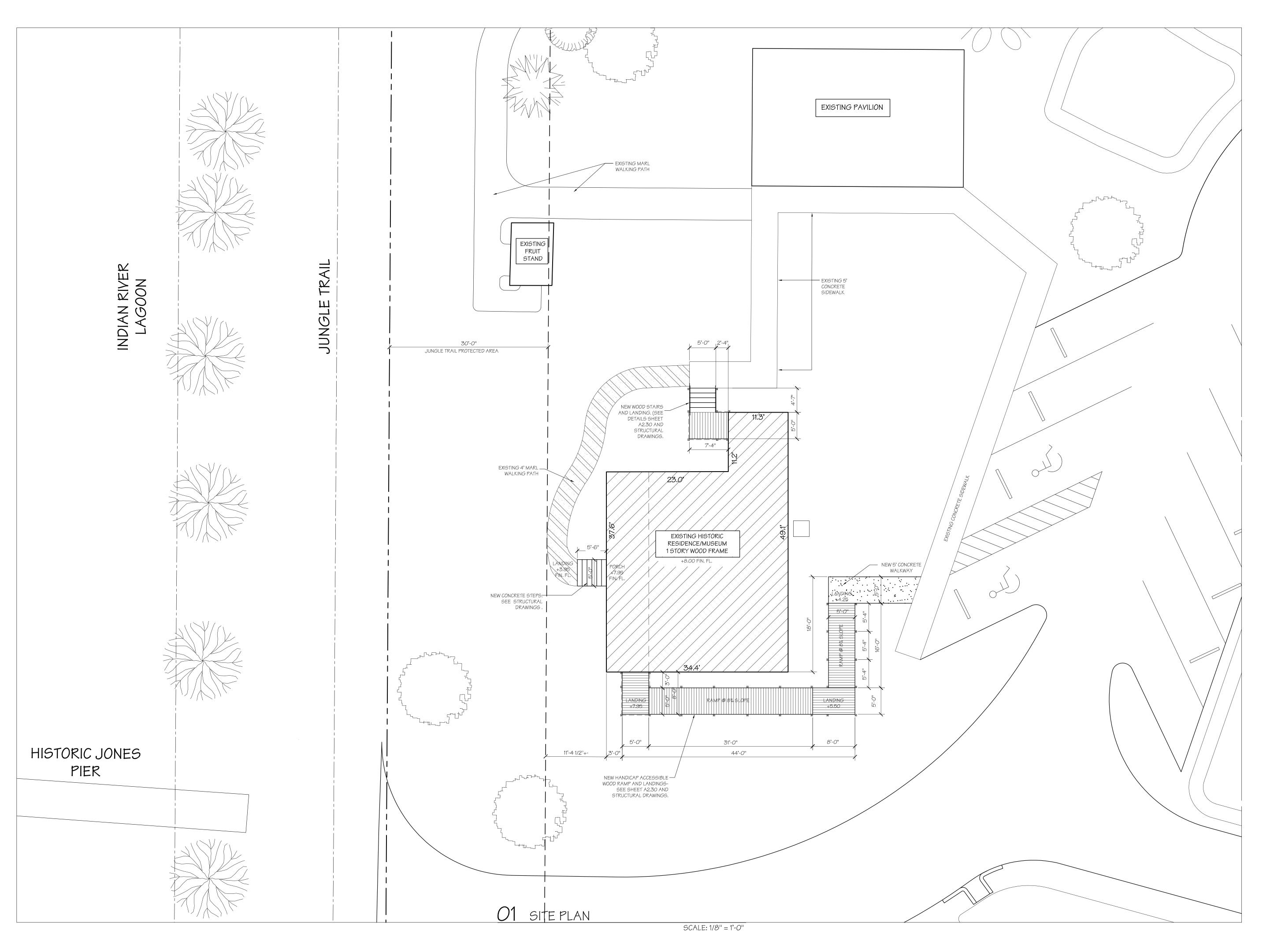
1/0	Dwg. No	Drawing Name
	M <i>O</i> .1	MECHANICAL NOTES
	M2.1	MECHANICAL PLAN
	M6.1	MECHANICAL SCHEDULES

ELECTRICAL DRAWINGS

1/0	Dwg. No	Drawing Name	
	E <i>O.</i> 1	ELECTRICAL NOTES	
\boxtimes	E2.1	LIGHTING PLAN	
\boxtimes	E3.1	POWER PLAN	

PLUMBING DRAWINGS

1/0	Dwg. No	Drawing Name
	PO.1	PLUMBING NOTES
\boxtimes	P2.1	PLUMBING PLANS
	P3.1	WATER PLAN



Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

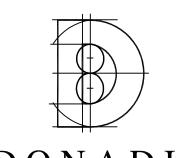
7770 Jungle Trail Vero Beach FL 32963

Indian River County Parks Division

Kev Plan

166U	85: 	
No.:	Date:	Description:
Α.	05/20/21	GRANT SUBMITTAL
В.	07/09/21	GRANT SUBMITTAL
C.	07/23/21	FINAL GRANT SUBMITTA
E.	08/18/23	BID PACKAGE

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Consu

Drawing Title:
HISTORIC MUSEUM
SITE PLAN

Reference Nor



Drn: Dwg.

JLH
Chd: XREF

TD
Project No.: Plot

Cert. No.: 12,4

AS 2.10

ABBREVIATIO	JNS:		
AB	ANCHOR BOLT	MATL	MATERIAL
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ADJ	ADJACENT	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MIN	MINIMUM
BLDG	BUILDING	NTS	NOT TO SCALE
BM	BEAM	O.C.	ON CENTER
BOT	воттом	OPT	OPTIONAL
BRG	BEARING	OSB	ORIENTED STRAND BOARD
CJ	CONTROL JOINT	PLY	PLYWOOD
CL	CENTERLINE	PSI	POUNDS PER SQUARE INCH
CMU	CONCRETE MASONRY UNIT	PSF	POUNDS PER SQUARE FOOT
COL	COLUMN	PT	PRESSURE TREATED
CONC	CONCRETE	REINF	REINFORCEMENT
COND	CONDITION	REQD	REQUIRED
CONT	CONTINUOUS	RO	ROUGH OPENING
CONST	CONSTRUCTION	RTU	ROOF TOP UNIT
CLG	CEILING	SCH	SCHEDULE
DBL	DOUBLE	SHTHG	SHEATHING
DIA	DIAMETER	SIM	SIMILAR
DR	DOOR	SMS	SHEET METAL SCREWS
DWG	DRAWING	SP / SYP	SOUTHERN YELLOW PINE
EA	EACH	SPF	SPRUCE PINE FIR
EJ	EXPANSION JOINT	STL	STEEL
ELECT	ELECTRICAL	STR	STRUCTURAL
EOR	ENGINEER OF RECORD	SGD	SLIDING GLASS DOOR
EQUIP	EQUIPMENT	SQ	SQUARE
FF	FINISH FLOOR	T&G	TONGUE AND GROOVE
FT	FOOT / FEET	ТОВ	TOP OF BEARING
GA	GAUGE	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UNO	UNLESS OTHERWISE NOTED
GYP	GYPSUM	VERT	VERTICAL
HGT	HEIGHT	W/	WITH
HORIZ	HORIZONTAL	WIC	WALK IN CLOSET
НВ	HOSE BIB	WD	WOOD
INS	INSULATION	WWF	WELDED WIRE FABRIC
KSI	KIPS PER SQUARE INCH	W/O	WITHOUT
MAS	MASONRY	WDW	WINDOW

Sheet List					
Page No	Sheet Name	Sheet Number			
1	Structural Notes	S0.10			
2	Foundation Plan	S1.10			
3	Floor Framing Plan	S1.20			
4	Structural Floor Plan and Roof Framing Plan	S2.10			
5	Structural Pier Sections and Details	S3.10			
6	Structural Sections and Details 2	S3.20			
7	Structural Details & Cross Section	S3.30			

STRUCTURAL ENGINEERING SCOPE OF WORK

BUILD NEW RAMPS, AND STAIRS PER THE SRUCTURAL PLANS AND ARCHITECTURAL PLANS. REINFORE THE ROOF FRAMING SYSTEM TO INCREASE THE WIND RESISTANCE STRENGTH PER THE PLANS. SEE THE CIVIL AND ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

DESIGN CODE TO THE BEST OF THE DESIGN PROFESSIONALS KNOWLEDGE. THESE DOCUMENTS HAVE BEEN PREPARED WITH AND ARE IN COMPLIANCE WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTERS 553 AND 633 OF THE FLORIDA STATUTES. THESE

2020 FLORIDA BUILDING CODE, SEVENTH EDITION, BUILDING, FBC.

DESIGN CRITERIA ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 318 AND 332.

ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH ACI 530/530.1: AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE); TMS

REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318.

DOCUMENTS MEET OR EXCEED THE REQUIREMENTS OF:

ALL WOOD FRAMING SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS LISTED IN THE FLORIDA BUILDING CODE OF THE **FOLLOWING REFERENCED DOCUMENTS:** NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION BY THE AMERICAN WOOD FOREST AND

100 PSF or 300 LB POINT LOAD

PAPER ASSOCIATION (AFPA) TIMBER CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

ROOF AND WALL SHEATHING SHALL BE IN ACCORDANCE WITH APA PS1-95 OR NER-108D. AMERICAN WOOD PROTECTION ASSOCIATION STANDARDS.

FLOOR LOADING:

DESIGN LOADS

DEAD LOAD (DECK AND RAMPS) DEAD LOAD (INTERIOR) 60 PSF (BUSINESS AREAS) LIVE LOAD (INTERIOR) LIVE LOAD (INTERIOR) 100 PSF (ASSEMBLY AREAS)

LIVE LOAD (BALCONY/STAIRS) GUARDRAIL/HANDRAIL

50 PLF AND 200 LBS IN ANY DIRECTION NON-CONCURRENT STRUCTURE SPECIFICATION

BUILDING OCCUPANCY CATEGORY:

CONSTRUCTION TYPE: V-B WIND SPEED ULTIMATE (LRFD) =

ALLOWABLE (ASD) = WIND EXPOSURE CATEGORY: FNCLOSURE CLASSIFICATION:

ENCLOSED (BUILDING INTERNAL PRESSURE COEFFICIENT: +/-0.18 (BUILDING) **ENCLOSURE CLASSIFICATION:** OPEN (DECK) INTERNAL PRESSURE COEFFICIENT: +/-0.00 (DECK)

WIND-BORNE DEBRIS AREA: REFER TO DRAWINGS FOR STRUCTURE HEIGHT AND AREA

STRUCTURAL LOADS AND DESIGN PRESSURES LISTED IN THESE PLANS ARE ALLOWABLE (ASD) UNLESS NOTED OTHERWISE.

PROJECT REQUIREMENTS:

THESE PLANS SHALL REMAIN ON THE PROJECT AT ALL TIMES. THE CONTRACTOR AND SUB-CONTRACTORS SHALL STRICTLY ADHERE TO ALL APPLICABLE CODES DURING THE COURSE OF CONSTRUCTION, INCLUDING ALL STATE, CITY AND COUNTY BUILDING, ZONING, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE CODES, AS WELL AS ANY APPLICABLE HOMEOWNER ASSOCIATION REQUIREMENTS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE DESIGN PROFESSIONAL OF RECORD OF

ANY DISCREPANCIES OR CONFLICT WITH APPLICABLE CODES PRIOR TO CONSTRUCTION. THE ARCHITECT / ENGINEER SHALL NOT BE RESPONSIBLE FOR SAFETY PROCEDURES, THE MEANS AND METHODS OF

CONSTRUCTION, TECHNOLOGIES OR THE FAILURE OF THE CONTRACTOR TO COMPLETE THE WORK IN ACCORDANCE WITH DRAWINGS, SPECIFICATIONS OR THE RELATED CODES. THE CONTRACTOR SHALL FULLY REVIEW ALL ITEMS CONTAINED IN THE DRAWINGS AND SHALL COORDINATE ALL DIMENSIONS,

LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, EMBEDS, SLEEVES, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCING. THE GENERAL

CONTRACTOR IS RESPONSIBLE FOR HIRING A DESIGN PROFESSIONAL FOR TEMPORARY SHORING OR LIFTING PROGRAMS. NOTES, DETAILS, AND SECTIONS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. "TYPICAL" DETAILS SIMPLY REFER TO ALL CONDITIONS TREATED SIMILARLY.

CONTRACTOR SHALL MAKE MINOR MODIFICATIONS TO ACCOMMODATE MINOR SIMILAR VARIATIONS. THE CONTRACTOR SHALL MAKE NO STRUCTURAL CHANGES OR MODIFICATIONS WITHOUT EXPRESSED WRITTEN APPROVAL OF THE ENGINEER OF RECORD IN ADVANCE

SITE WORK:

ALL WORK SHALL CONFORM TO THE FINAL GEOTECHNICAL REPORT AND THE FINAL GRADING PLAN ACCEPTED BY THE

IF THE SOILS REPORT IS NOT AVAILABLE, SOIL BEARING CAPACITY IS ASSUMED TO BE A MINIMUM OF 1,800 PSF. CONTRACTOR SHALL VERIFY COMPACTION REQUIREMENTS PRIOR TO THE EXECUTION OF WORK. DISCREPANCIES SHALL BE

BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL PRIOR TO COMMENCEMENT OF WORK. FOOTINGS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED FILL, FREE OR ORGANIC MATTER AND COMPACTED TO

95% OF THE MODIFIED PROCTOR, UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORT. THE SOILS WITHIN 15 FEET OF THE PROPOSED BUILDING PAD SHALL BE FREE OF ANY WOOD, VEGETATION. STUMPS,

CARDBOARD, TRASH, OR OTHER DELETERIOUS MATERIAL. WATER MANAGEMENT AT THE PERIMETER SHALL BE MAINTAINED AND SHALL INCLUDE:

CONDENSATE DRAINS AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST 12" FROM BUILDING. IRRIGATION / SPRINKLER SYSTEMS, INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 16" LANDSCAPE SHALL BE INSTALLED AT LEAST 24" AWAY FROM BUILDING PERIMETER.

ANY FILL BROUGHT TO THE SITE SHALL MEET PROJECT REQUIREMENTS OF THE GEOTECHNICAL ENGINEER. SOIL TREATMENT TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES BAITING

SYSTEMS, AND/OR PESTICIDES APPLIED TO WOOD OR OTHER APPROVED METHODS. BOXED AREAS IN CONCRETE FLOORS FOR INSTALLATION OF TRAPS, ETC. SHALL BE MADE WITH PERMANENT METAL OR APPROVED PLASTIC FORMS. FORMS SHALL BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER

PROVIDE VAPOR BARRIER IMMEDIATELY FOLLOWING SOIL TREATMENT. A LICENSED PEST CONTROL COMPANY SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING DEPARTMENT AT

COMPLETION OF TREATMENT. AFTER COMPLETION OF WORK, ALL LOOSE WOOD, CONSTRUCTION DEBRIS, AND ORGANIC MATERIAL SHALL BE REMOVED FROM WITHIN 16" OF BUILDING PERIMETER.

CONCRETE:

ALL WORK SHALL BE MIXED, PLACED, AND CURED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE ACI 318.

CONCRETE SHALL HAVE THE FOLLOWING SPECIFICATIONS UNLESS NOTED OTHERWISE: STRENGTH (PSI) 2,800 PSI (28 DAYS) 4"-6" 3,000 PSI (28 DAYS) 4"-6" 3/4" - 2" FOOTER GENERAL CONTRACTOR SHALL SUBMIT MIX DESIGN TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO PLACING ANY CONCRETE.

MATERIAL FOR CONCRETE SHALL CONFORM TO THE FOLLOWING: PORTLAND CEMENT - ASTM C150 AGGREGATES: COURSE AGGREGATE: ASTM C33, LIGHTWEIGHT: ASTM C330, FINE: ASTM C33

WATER SHALL BE FREE OF CONTAMINANTS, CLEAN AND POTABLE. WATER SHALL NOT BE ADDED TO THE MIX ONSITE UNLESS SPECIFICALLY APPROVED IN THE MIX DESIGN SPECIFICATIONS PER THE SPECIFIED VOLUME.

TESTING AND SAMPLING ALL TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH ASTM REQUIREMENTS. TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO FURTHER CONSTRUCTION. THREE CYLINDER TEST SAMPLES SHALL BE MADE DURING EACH DAYS SEQUENCE PER EVERY 50 YARDS. TWO SLUMP TESTS (PER

TEST FAILS SPECIFICATIONS. SUBMIT TEST RESULTS TO ENGINEER OF RECORD WITHIN FIVE DAYS OF RESULTS.

ADMIXTURES SHALL CONFORM TO THE MIX DESIGN.

GROUT SHALL BE IN ACCORDANCE WITH ASTM C476 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

CONTRACTOR SHALL ADD PLASTICIZER TO GROUT MIXTURE

FILL CMU CELLS SOLID WITH GROUT AT ALL UNITS RECEIVING REINFORCEMENT AND AS NOTED ON DRAWINGS AND SECTIONS. FILL SOLID FIRST COURSE BELOW CHANGE IN WALL THICKNESS AND AT TOP OF ALL CMU WALLS. GROUT SHALL BE PLACED FLUSH TO THE TOP OF ALL LINTELS AND BOND BEAMS. CONSOLIDATE AND RE-CONSOLIDATE GROUT

ASTM C143) SHALL BE PERFORMED AND RECORDED FOR EACH BATCH, ONE AT THE BEGINNING AND ONE AT THE END.

ONE CYLINDER SHALL BE BROKEN AT 7 DAYS AND ONE AT 28 DAYS. RESERVE CYLINDER WILL BE NEEDED IF SECOND

WITH VIBRATOR FOR FULL HEIGHT OF FILLED CELLS, BOND BEAMS, AND LINTELS. REINFORCING REINFORCING SHALL HAVE GRADE IDENTIFICATION MARKS AND SHALL CONFORM TO ASTM A615, GRADE 60.

REINFORCING SHALL BE FREE OF RUST, SCALE OR OTHER BOND REDUCING COATINGS. REINFORCING SHALL BE PLACED IN CONCRETE TO PROVIDE MINIMUM COVERAGE IN ACCORDANCE WITH ACI 318 OR AS INDICATED IN THE DRAWINGS.

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3"

CONCRETE EXPOSED TO EARTH OR WEATHER - 1.5" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND - 3/4"

MINIMUM LA	P SPLICE (UNLESS NOTED	OTHERWISE)		
BAR SIZE	MASONRY	CONCRETE		
	1500 PSI	2000 PSI	3000 PSI	4000 -5000 PSI
#4	24"	21"	27"	15"
#5	30"	26"	21"	19"
#6	36"	31"	26"	22"

ACCURATELY PLACE AND SUPPORT REINFORCING WITH CHAIRS, BAR SUPPORTS, SPACERS, OR HANGERS AS RECOMMENDED

PLACE (1) ONE ACI STANDARD LAP SPLICE BAR, OF THE SAME SIZE AS FOUNDATION REINFORCING, LOCATED AT THE OUTSIDE BAR OF FOUNDATION CORNERS.

PLACEMENT AND FINISHING

ALL CONCRETE PLACED UNDER ROOF PROTECTION SHALL BE PLACED OVER 6 MIL POLYETHYLENE VAPOR BARRIER, LAPPED 8 INCHES MINIMUM WITH ALL SEAMS TAPED UNLESS NOTED OTHERWISE.

PLACE ALL EMBEDDED ITEMS (ANCHOR BOLTS, DOWELS, ETC.) IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE OR DURING

PROTECT ALL CONCRETE FROM DAMAGE AFTER PLACEMENT. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCHING UNLESS MIX DESIGN SPECIFIES OTHERWISE.

CONCRETE SHALL BE PLACED WITHIN THE SLUMP LIMITS SPECIFIED IN THE DESIGN MIX. WATER ADDED AT THE SITE SHALL BE KEPT TO A MINIMUM AND WITHIN THE SPECIFIED SLUMP. RUN MIXER FOR THIRTY REVOLUTIONS AT 8-12 RPM FOLLOWING THE ADDITION OF WATER AT THE SITE.

CONCRETE SHALL NOT BE PLACED DURING RAIN. FOLLOWING PLACEMENT OF CONCRETE, PROTECT FROM RAIN PRIOR TO INITIAL SET.

PLACEMENT SHALL BE CONTINUOUS UNTIL ALL WORK IS COMPLETED. DO NO USE CONTAMINATED, DETERIORATED, OR RETEMPERED CONCRETE. THOROUGHLY WORK CONCRETE AROUND REINFORCING BARS.

PLACE CONCRETE TO GRADES AND ELEVATIONS REQUIRED FOR PROJECT. REMOVE ALL GRADE STAKES AFTER PLACEMENT OF CONCRETE. AT SLABS GREATER THAN 20 FEET IN ANY DIRECTION

PROVIDE SAW CUT CONTROL JOINTS IN CONCRETE AFTER INITIAL SET AND PRIOR TO HARDENING SAWCUT JOINTS SHALL BE 1/3 THE DEPTH OF THE SLAB. ANY SLAB EXCEEDING 20 FEET SHALL BE DIVIDED AT ALL CORNERS AND SHALL EXTEND IN EACH 90 DEGREE

DIRECTION. PROVIDE SURFACE FINISH REQUIRED FOR INTENDED FINAL APPLICATION. SILL PLATE ANCHORS SHALL BE AS SPECIFIED IN SPECIFICATIONS.

CONSOLIDATE CONCRETE THOROUGHLY DURING CONCRETE OPERATIONS. CURE CONCRETE FOR THREE DAYS TO MINIMIZE SHRINKAGE CRACKS.

ALL HOLLOW LOAD BEARING CONCRETE BLOCK SHALL CONFORM TO ASTM C90, GRADE N, TYPE II.

COMPRESSIVE STRENGTH OF ALL CONCRETE MASONRY UNITS (CMU) SHALL BE 2000 PSI MINIMUM BASED ON THE NET CROSS

MORTAR SHALL BE TYPE S AND SHALL CONFORM TO ASTM C270.

GROUTING SHALL BE AS SPECIFIED IN NOTES.

2. EXECUTION ALL CONCRETE MASONRY UNITS SHALL BE LAID IN FULL SETTING BED AND IN RUNNING BOND UNLESS NOTED ON DRAWINGS. ALL EXTERIOR MASONRY WALLS SHALL HAVE 9 GAUGE "LADDER TYPE" HORIZONTAL REINFORCEMENT LOCATED EVERY 16" ON CENTER VERTICAL. CORNERS SHALL USE PRE-FAB "L" AND "T" SECTIONS.

> OVER ALL MASONRY OPENINGS AND WALLS , PROVIDE PRE-CAST LINTELS, CAST-IN-PLACE CONCRETE TIE-BEAMS, BOND BEAMS, OR OTHER HEADERS AS INDICATED ON DRAWINGS. LINTELS AND BOND BEAMS SHALL BE REINFORCED AND FULLY GROUTED SOLID UNLESS OTHERWISE INDICATED ON

TIE-BEAMS SHALL BE REINFORCED AND POURED SOLID WITH CONCRETE

VERTICAL REINFORCING AT OPENINGS SHALL BE AS INDICATED ON DRAWINGS. VERTICAL FILLED CELLS SHALL MEET THE FOLLOWING:

HAVE A MINIMUM OF ONE #5 REBAR, LAPPED FOR FULL LENGTH OF FILLED CELL VERTICAL REINFORCING SHALL BE LAPPED TO FOUNDATION DOWEL EMBEDDED IN FOOTING. TERMINATE VERTICAL REINFORCING AT THE TOP WITH A STANDARD ACI HOOK, LAPPED TO HORIZONTAL

REINFORCING IN BOND BEAM, TIE-BEAM, OR LINTEL. REFER TO CONCRETE NOTES FOR GROUT AND REINFORCEMENT REQUIREMENTS.

PROVIDE TEMPORARY BRACING FOR ALL CMU WALLS AND STEM WALLS DURING CONSTRUCTION. PROVIDE MASONRY CONTROL JOINTS AS REQUIRED BY ACI 530.

CURE MASONRY SURFACES FOR 3 DAYS.

IF DOWELS ARE MISPLACED OR MISSING, THE FOLLOWING REMEDIAL ACTION SHALL BE TAKEN AS APPROPRIATE: IF THE WALL HAS NOT BEEN BUILT; DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE CORRECT LOCATION, INSTALL A 36" LONG #5 REBAR WITH SIMPSON TIE "SET EPOXY". FOLLOW THE MANUFACTURERS REQUIREMENT REQUIRING

CLEANING THE HOLE AND MIXING THE EPOXY. IF THE WALL HAS BEEN BUILT: PRIOR TO LINTEL POUR OPEN THE WALL AT THE CORRECT LOCATION, APPROXIMATELY 16" HIGH AND 14" WIDE AT THE FLOOR, DRILL AND EPOXY THE REBAR AS DESCRIBED ABOVE, LAP VERTICAL STEEL TO THE TIE OR BOND BEAM. FORM WALL AND POUR SOLID WITH GROUT, CONSOLIDATING AS NECESSARY.

WOOD FRAMING COMPONENTS:

ALL WOOD AND WOOD CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS AND CODES INDICATED IN

LUMBER SHALL BE IN ACCORDANCE WITH THE NATIONAL GRADING RULES AND SHALL BEAR GRADE STAMP OF SPIB, OR OTHER ASSOCIATION RECOGNIZED BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.

LUMBER 2" OR LESS IN NOMINAL THICKNESS SHALL NOT EXCEED 19% IN MOISTURE CONTENT AT THE TIME OF INSTALLATION AND SHALL BE STAMPED "S-DRY", "K-D", OR "MC15". ALL LUMBER SHALL BE S4S.

ALL FRAMING MEMBERS SHALL BE SOUTHERN PINE #2 GRADE OR BETTER.

EXECUTION

WOOD FASTENING SHALL BE SPECIFIED IN THE DRAWINGS. FASTENING NOT SPECIFICALLY IDENTIFIED ON DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE.

INTERIOR BEARING AND EXTERIOR WOOD FRAMED WALLS SHALL BE NOMINAL 4 INCHES WIDE SPACED AT 16" ON CENTER MAXIMUM, UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL LUMBER SHALL BE PRESSURE TREATED.

SQUASH BLOCKS SHALL BE INSTALLED BELOW ALL COLUMNS AND BUILT UP MEMBERS (INCLUDING JACKS AND KINGS AT OPENINGS) BETWEEN BOTTOM OF FLOOR SHEATHING AND TOP OF WALL BELOW. SQUASH BLOCKS SHALL BE OF THE SAME

GRADE AND SIZE OF THE MEMBER ABOVE. PROVIDE APPROVED SEPARATING MATERIAL AT TOP OF PIERS UNDER FRAMING COMPONENTS.

WOOD CONNECTORS AND HOLD-DOWNS SHALL BE AS SPECIFIED IN THE DRAWINGS AND SHALL BE INSTALLED IN

ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. FASTENERS AND CONNECTORS USED ON UN-TREATED WOOD EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

FASTENERS AND CONNECTORS (INCLUDING TRUSS PLATES, NAILS, BOLTS, ANCHORS, ETC.) USED IN CONTACT WITH TREATED WOOD SHALL BE COMPATIBLE WITH THE TREATMENT METHOD AND AS FOLLOWS:

WOOD TREATED WITH DOT SODIUM BORATE - MINIMUM G90 ZINC COATING WOOD TREATED WITH ACQ-C OR ACQ-D OR OTHER BORATE (NON-DOT) - MINIMUM G185 ZINC COATING

FOR ALL OTHER TREATMENT - COMPLY WITH THE RECOMMENDATIONS OF THE PRESERVATIVE WOOD SUPPLIER STAINLESS STEEL CONNECTORS MAY BE USED FOR ANY TYPES OF TREATED OR UNTREATED WOOD

SEE CHART BELOW FOR NAIL SIZE CONVERSION WITH CONNECTOR CHARTS. DIAMETER 8d COMMON

10d / 12 COMMON 0.148" 16d COMMON

HANGARS AND FRAMED COMPONENTS SHALL BE FURNISHED BY THE MANUFACTURER WITH NAILS FOR SPECIFIC USE AND

INSTALLATION. ALL PRE-MANUFACTURED CONNECTORS SHALL HAVE NAILS / SCREWS / ANCHORS INSTALLED IN ACCORDANCE WITH THE

CONNECTOR SCHEDULE AND MANUFACTURERS SPECIFICATIONS, FULLY DRIVEN. C. ALL SOLE PLATES SHALL BE AS DESCRIBED HEREIN AND SHALL MEET THE FOLLOWING:

ALL ANCHOR BOLTS SHALL HAVE $2"x2"x^1/8"$ PLATE WASHERS UNLESS NOTED OTHERWISE. BOLTS SHALL BE LOCATED AT CORNERS AND JAMBS AND WITHIN 6" OF EACH END OR JOINT IN PLATE. PLATES LESS THAN 20 INCHES IN LENGTH SHALL HAVE ONE ANCHOR INSTALLED IN THE MIDDLE THIRD OF THE PLATE

SLEEVE ANCHORS AND EXPANSION ANCHORS ARE NOT PERMITTED AT EXTERIOR WALLS. D. REFER TO THE SOLE PLATE ANCHORAGE SCHEDULE ATTACHMENTS OF PLATE TO CONCRETE OR MASONRY.

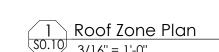
COMPONENTS AND CLADDING WIND PRESSURE FOR ROOF SHEATHING ASD NAIL SPACING ZONE 1 - INTERIOR: +22/-57 6" O.C. 6" O.C. ZONE 2e - PERIMETER: +10/-72

ROOF SHEATHING SHALL BE 19/32" MIN. ATTACHMENT SHALL BE 10d RINGSHANK NAILS 0.120" DIAMETER x 1.5"

EMBEDMENT, FIELD AND EDGE SPACING SHALL BE THE SAME.

ZONE 2n - PERIMETER: +10/-97 6" O.C. ZONE 2r - RIDGE: +22/-77 6" O.C. ZONE 3r - CORNER: 6" O.C. +10/-134 ZONE 3e - CORNER: +10/-126 4" O.C. NOTES: EDGE DISTANCE = 3'-6" THE EFFECTIVE AREA FOR ZONES 1 AND 2 ARE 32 SF. THE EFFECTIVE AREA FOR ZONE 3 IS 13 SF.

(3r) (2n)



		Florida Produ	ıct Approval Li	stings	
Category - Subcategory	Approval Number	Manufacturer	Model Number	Building Design Pressures (+PSF / -PSF)	Product Design Pressures (+PSF / -PSF)
Roofing - Metal	NOA 22-0909.13	Drexel Metals, Inc.	26 Ga. 5V crimp	-90	-121
Roofing - Underlayment	NOA 22-1221.01	Polyglass USA, Inc.	Roof Underlayment	N/A	N/A
Windows - Single Hung	NOA 20-0722 13	CGI Windows & Doors Inc	Series "360" (Impact)	+43/-58	+100/-210

PRODUCT APPROVAL NOTE:

I HAVE REVIEWED THE ABOVE COMPONENTS OR CLADDING AND I HAVE APPROVED THEIR USE IN THIS STRUCTURE. THESE PRODUCTS PROVIDE ADEQUATE RESISTANCE TO THE WIND LOADS SPECIFIED BY CURRENT CODE PROVISIONS. HARD COPIES OF THE PRODUCT APPROVALS SHALL BE AVAILABLE ON SITE FOR INSPECTIONS.

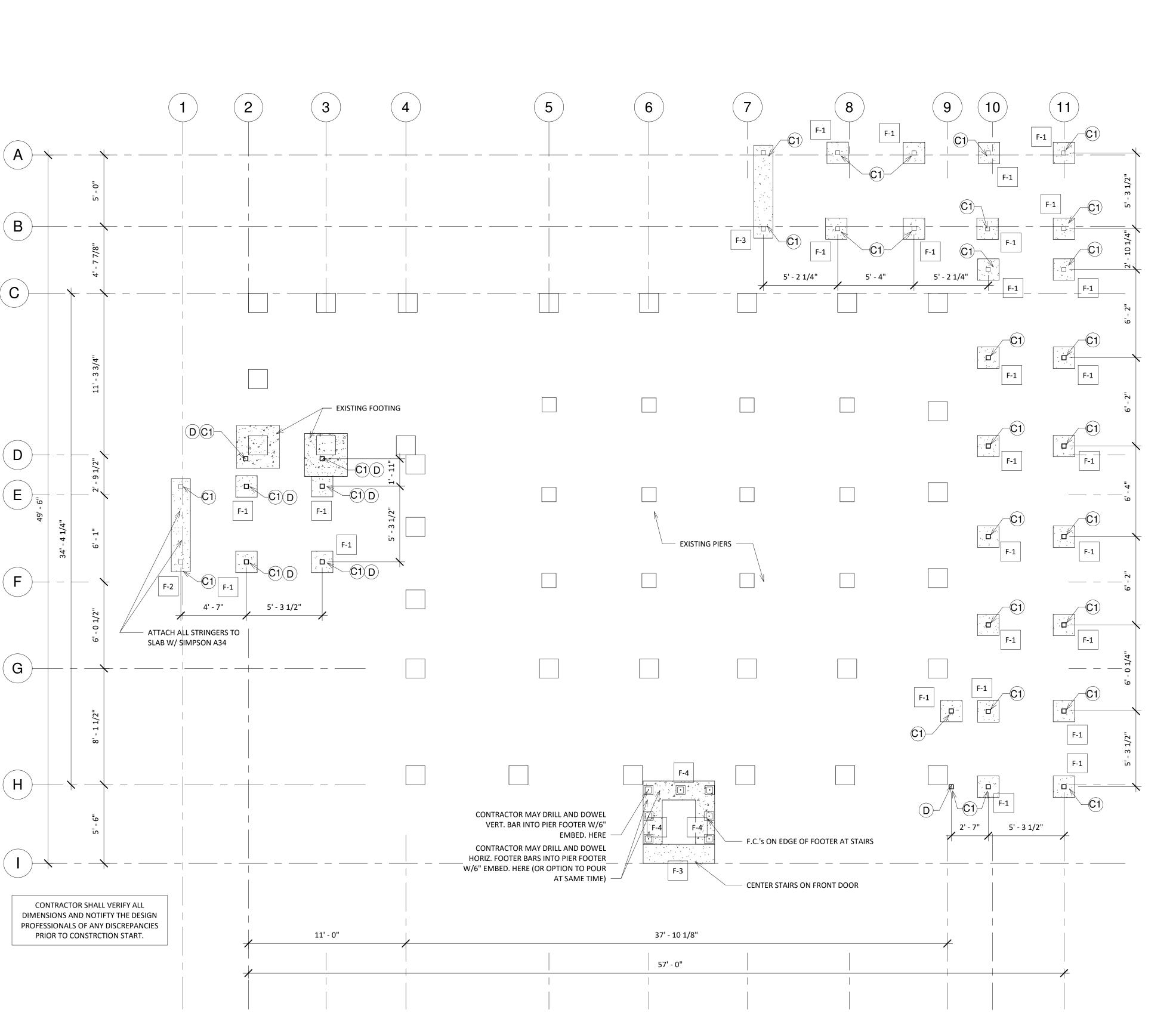
PROJECT NUMBER:

COL 3:12-17



Structural Notes

SO.10



1 Foundation Plan \$1.10 1/4" = 1'-0"

Connector Schedule							
Member Type/ Mark	Connector Type	Connectors	Uplift Needed	Uplift Provided	Comments		
A - Strap at CMU to 4x6	LTA2	(10) .148"x1.5" Nails and Embed in Pier	1,000 lbs (Lat.)	1,180 lbs	Simpson or Equal		
B - Truss Strap at Wood	H2.5A	(10) 8d's	350 lbs	600 lbs	Simpson or Equal		
C - Angle to Conc.	A34	(4) 1/4"x2" Tapcons & (4) 10dx1.5"	300 lbs	765 lbs	Simpson or Equal		
D - 4x4 Post	ABU44Z	(1) 5/8" Anchor D&E 4" Embed. & (12) .162"x3.5" SDS Screws	700 lbs	1,900 lbs	Min. 2" Conc. Coverage All Sides		
E - Threaded Rod	5/8" Threaded Rod	Drill and Epoxy to Pier w/6" Embed. Min. W/ Washer and Nut at Bott. Plate	2,000 lbs	2,000 lbs	Stainless Steel		
F - Hanger - Standard	HUS26	(20) 16d's	1,500 lbs	2,735 lbs	Simpson or Equal		
G - Strap - Middle Stringer	H10A-2	(18) SS 10d's x 1.5"	800 lbs	1,040 lbs	Simpson or Equal		
G Alt Strap - Middle Stringer	H10A-SS	(18) 10d x 1.5"	800 lbs	970 lbs	Simpson or Equal		
H - Strap - Stringer	H10ASS	(18) SSN10	800 lbs	970 lbs	Simpson or Equal		
I - Hanger	HUC26	(20) 16d's	850 lbs	1,135 lbs	Simpson or Equal		
J - Post Base Connector	ABU44Z	(1) 5/8" Anchor Thru Bolted to Floor Beam & (12) .162"x3.5" SDS Screws	875 lbs	1,900 lbs	Simpson or Equal		
K - Post Cap Connector	AC4	(28) 0.162" Diam. x 3.5" Nails	875 lbs	2,490 lbs	Simpson or Equal		
L - Hangar - (2)2x	LUS26-2	(8) .162"x3.5" Nails	925 lbs (Down)	1,060 lbs	Simpson or Equal		
M - Twist Strap	MTS 16	(14) .148"x1.5" Nails	875 lbs	990 lbs	Simpson or Equal		

	Beam/Joist Schedule							
Mark	Beam / Column	Comment						
BM-1	(1) 2x8	P.T. SYP Beam attach to Exist. Beam						
BM-2	(1) 2x12	P.T. SYP Beam attach to Exist. Beam						
BM-3	(2) 2x12	P.T. SYP Beam attach to Exist. Beam						
BM-4	(2) 2x12 with 8"x4"x1/2" Steel Angle	P.T. SYP Beam attach to Exist. Beam						
BM-5	(2) 2x12	P.T. SYP Beam						
BM-6	(2) 2x10	P.T. SYP Beam						
BM-7	2x12	P.T. SYP Beam						
BM-8	(2) 2x8	P.T. SYP Beam						
BM-9	(2) 1.75"x7.25" LVL	2.0 Species, 2850 Fb Grade						
EJ-4	2x4	Existing to Remain						
EJ-6	2x6	Existing to Remain						
EJ-8	2x8	Existing to Remain						
J-6	2x6	P.T. SYP Joist						
J-8	2x8	P.T. SYP Joist						

		Foundation Sch	edule
Mark	WxDxL	Туре	Reinforcement
F-1	18"x30"x18"	Pad Footer	(1) #5 Bar Each Way in Post
F-2	16"x16"x78"	Strip Footer - Flush to Grade	(2) #5 Bars Cont. & #5 Bar in Post
F-3	20"x14"x60"	Strip Footer - Recessed Below Grade	(2) #5 Bars Cont.
F-4	20"x16"x Cont.	Stem Wall Footer	(3) #5 Bars Cont. & #3 Lat. at 24" O.C. Max

	Colun	nn Sche	edule
Mark	Туре	Size	Reinforcement
C1	Wood - SYP P.T. Post	4x4	See Detail
C2	Wood - SYP Built Up Post	(2) 2x4	

COLUMN FOOTER - SEE SCHEDULE

COLUMN - SEE SCHEDULE

P-1

PAD - SEE SCHEDULE

4"

STEP DOWN IN ELEVATION

#5 BAR VERTICAL IN FILLED CELL

#5 BAR VERTICAL IN STEM WALL CELL

Foundation Legend
1/4" = 1'-0"

| ISSUE DATE: 08/17/2023 | No. | No.

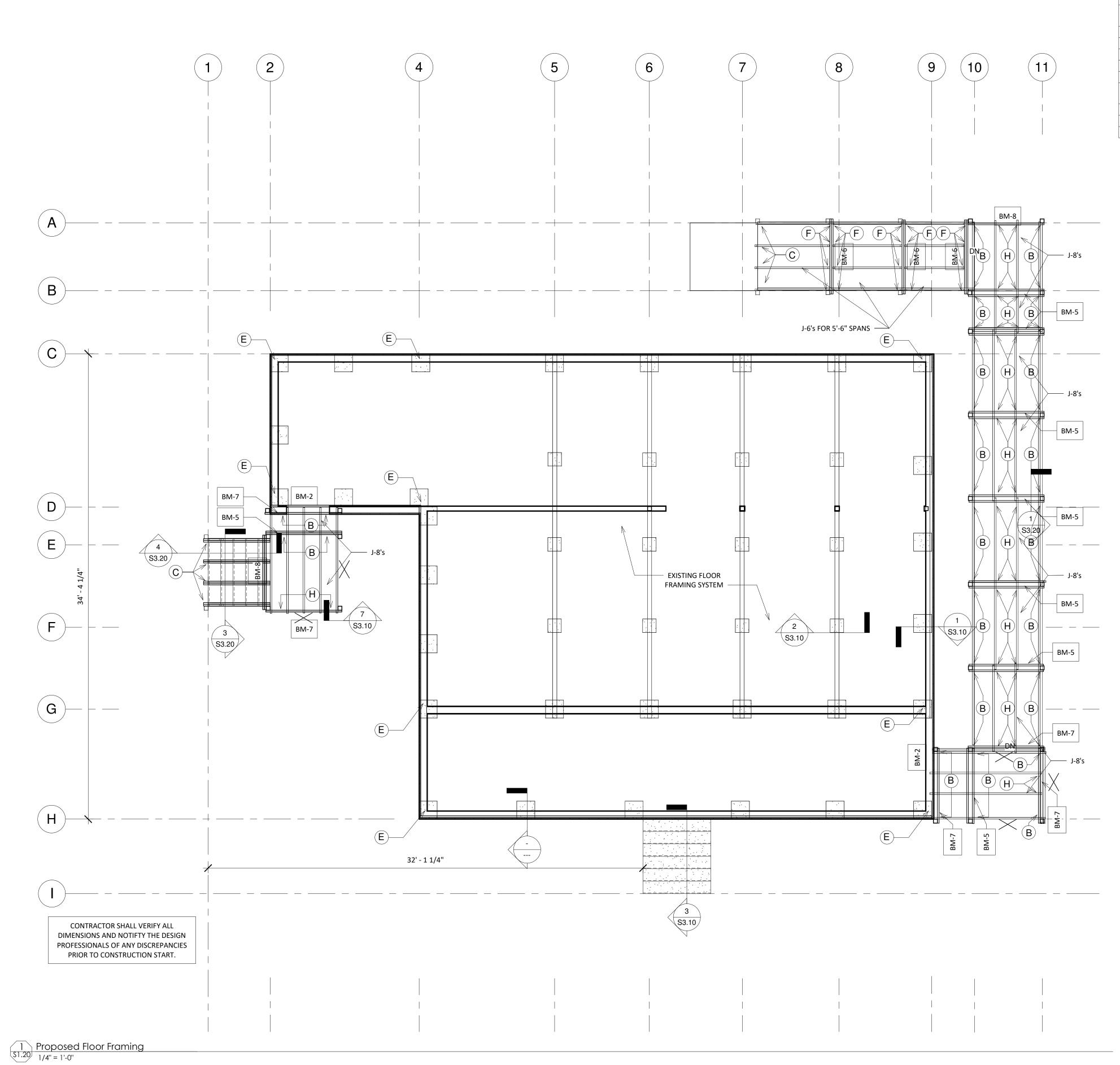
PROJECT NUMBER:

S PIER HISTORIC BLG.
FLOOR FRAMING
770 JUNGLE TRAIL

Foundation Plan

S1.10

2 of 5



	Connector Sched	ule		
Connector Type	Connectors	Uplift Needed	Uplift Provided	Comments
LTA2	(10) .148"x1.5" Nails and Embed in Pier	1,000 lbs (Lat.)	1,180 lbs	Simpson or Equal
H2.5A	(10) 8d's	350 lbs	600 lbs	Simpson or Equal
A34	(4) 1/4"x2" Tapcons & (4) 10dx1.5"	300 lbs	765 lbs	Simpson or Equal
ABU44Z	(1) 5/8" Anchor D&E 4" Embed. & (12) .162"x3.5" SDS Screws	700 lbs	1,900 lbs	Min. 2" Conc. Coverage All Side
5/8" Threaded Rod	Drill and Epoxy to Pier w/6" Embed. Min. W/ Washer and Nut at Bott. Plate	2,000 lbs	2,000 lbs	Stainless Steel
HUS26	(20) 16d's	1,500 lbs	2,735 lbs	Simpson or Equal
H10A-2	(18) SS 10d's x 1.5"	800 lbs	1,040 lbs	Simpson or Equal
H10A-SS	(18) 10d x 1.5"	800 lbs	970 lbs	Simpson or Equal
H10ASS	(18) SSN10	800 lbs	970 lbs	Simpson or Equal
HUC26	(20) 16d's	850 lbs	1,135 lbs	Simpson or Equal
ABU44Z	(1) 5/8" Anchor Thru Bolted to Floor Beam & (12) .162"x3.5" SDS Screws	875 lbs	1,900 lbs	Simpson or Equal
AC4	(28) 0.162" Diam. x 3.5" Nails	875 lbs	2,490 lbs	Simpson or Equal
LUS26-2	(8) .162"x3.5" Nails	925 lbs (Down)	1,060 lbs	Simpson or Equal
MTS 16	(14) .148"x1.5" Nails	875 lbs	990 lbs	Simpson or Equal
	LTA2 H2.5A A34 ABU44Z 5/8" Threaded Rod HUS26 H10A-2 H10A-SS H10ASS HUC26 ABU44Z AC4 LUS26-2	Connector Type Connectors LTA2 (10) .148"x1.5" Nails and Embed in Pier H2.5A (10) 8d's A34 (4) 1/4"x2" Tapcons & (4) 10dx1.5" ABU44Z (1) 5/8" Anchor D&E 4" Embed. & (12) .162"x3.5" SDS Screws 5/8" Threaded Rod Drill and Epoxy to Pier w/6" Embed. Min. W/ Washer and Nut at Bott. Plate HUS26 (20) 16d's H10A-2 (18) SS 10d's x 1.5" H10A-SS (18) 10d x 1.5" H10ASS (18) SSN10 HUC26 (20) 16d's ABU44Z (1) 5/8" Anchor Thru Bolted to Floor Beam & (12) .162"x3.5" SDS Screws AC4 (28) 0.162" Diam. x 3.5" Nails LUS26-2 (8) .162"x3.5" Nails	LTA2 (10) .148"x1.5" Nails and Embed in Pier 1,000 lbs (Lat.) H2.5A (10) 8d's 350 lbs A34 (4) 1/4"x2" Tapcons & (4) 10dx1.5" 300 lbs ABU44Z (1) 5/8" Anchor D&E 4" Embed. & (12) 700 lbs .162"x3.5" SDS Screws .162"x3.5" SDS Screws 5/8" Threaded Rod Drill and Epoxy to Pier w/6" Embed. Min. W/ Washer and Nut at Bott. Plate 2,000 lbs HUS26 (20) 16d's 1,500 lbs H10A-2 (18) SS 10d's x 1.5" 800 lbs H10A-SS (18) 10d x 1.5" 800 lbs H10ASS (18) SSN10 800 lbs HUC26 (20) 16d's 850 lbs ABU44Z (1) 5/8" Anchor Thru Bolted to Floor Beam & (12) 1.62"x3.5" SDS Screws 875 lbs AC4 (28) 0.162" Diam. x 3.5" Nails 875 lbs LUS26-2 (8) .162"x3.5" Nails 925 lbs (Down)	Connector Type Connectors Uplift Needed Uplift Provided LTA2 (10) .148"x1.5" Nails and Embed in Pier 1,000 lbs (Lat.) 1,180 lbs H2.5A (10) 8d's 350 lbs 600 lbs A34 (4) 1/4"x2" Tapcons & (4) 10dx1.5" 300 lbs 765 lbs ABU44Z (1) 5/8" Anchor D&E 4" Embed. & (12) 700 lbs 1,900 lbs 5/8" Threaded Rod Drill and Epoxy to Pier w/6" Embed. Min. W/ 2,000 lbs 2,000 lbs HUS26 (20) 16d's 1,500 lbs 2,735 lbs H10A-2 (18) SS 10d's x 1.5" 800 lbs 1,040 lbs H10ASS (18) 10d x 1.5" 800 lbs 970 lbs H10ASS (18) SSN10 800 lbs 970 lbs HUC26 (20) 16d's 850 lbs 1,135 lbs ABU44Z (1) 5/8" Anchor Thru Bolted to Floor Beam & (12) s.162"x3.5" SDS Screws 1,900 lbs 1,900 lbs AC4 (28) 0.162" Diam. x 3.5" Nails 875 lbs 2,490 lbs LUS26-2 (8) .162"x3.5" Nails 925 lbs (Down) 1,060 lbs

Mark	Beam / Column	Comment
BM-1	(1) 2x8	P.T. SYP Beam attach to Exist. Beam
BM-2	(1) 2x12	P.T. SYP Beam attach to Exist. Beam
BM-3	(2) 2x12	P.T. SYP Beam attach to Exist. Beam
BM-4	(2) 2x12 with 8"x4"x1/2" Steel Angle	P.T. SYP Beam attach to Exist. Beam
BM-5	(2) 2x12	P.T. SYP Beam
BM-6	(2) 2x10	P.T. SYP Beam
BM-7	2x12	P.T. SYP Beam
BM-8	(2) 2x8	P.T. SYP Beam
BM-9	(2) 1.75"x7.25" LVL	2.0 Species, 2850 Fb Grade
EJ-4	2x4	Existing to Remain
EJ-6	2x6	Existing to Remain
EJ-8	2x8	Existing to Remain
J-6	2x6	P.T. SYP Joist
J-8	2x8	P.T. SYP Joist

2x4 SYP BRACING W/(2) 12d's TO
BOT. CHORD OF EACH TRUSS

2x4 CROSS BRACING AT POSTS W/ (3) #10 SCREWS

A CONNECTOR - SEE SCHEDULE

BM-1 BEAM - SEE SCHEDULE

L-1 LEDGER - SEE SCHEDULE

EJ-1 EXISTING JOIST -+SEE SCHEDULE

JOIST - SEE SCHEDULE

Framing Legend
N.T.S.

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Date				
Description				
No.				
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E N G I N E E R I N G

CA# 32295

1555 INDIAN RIVER BLDV. SUITE B-145

VERO BEACH, FL 32960

772.360.4998

INFO@SCHLITTENGINEERING.COM

COL 3:12-17

JONES PIER HISTORIC BLG.

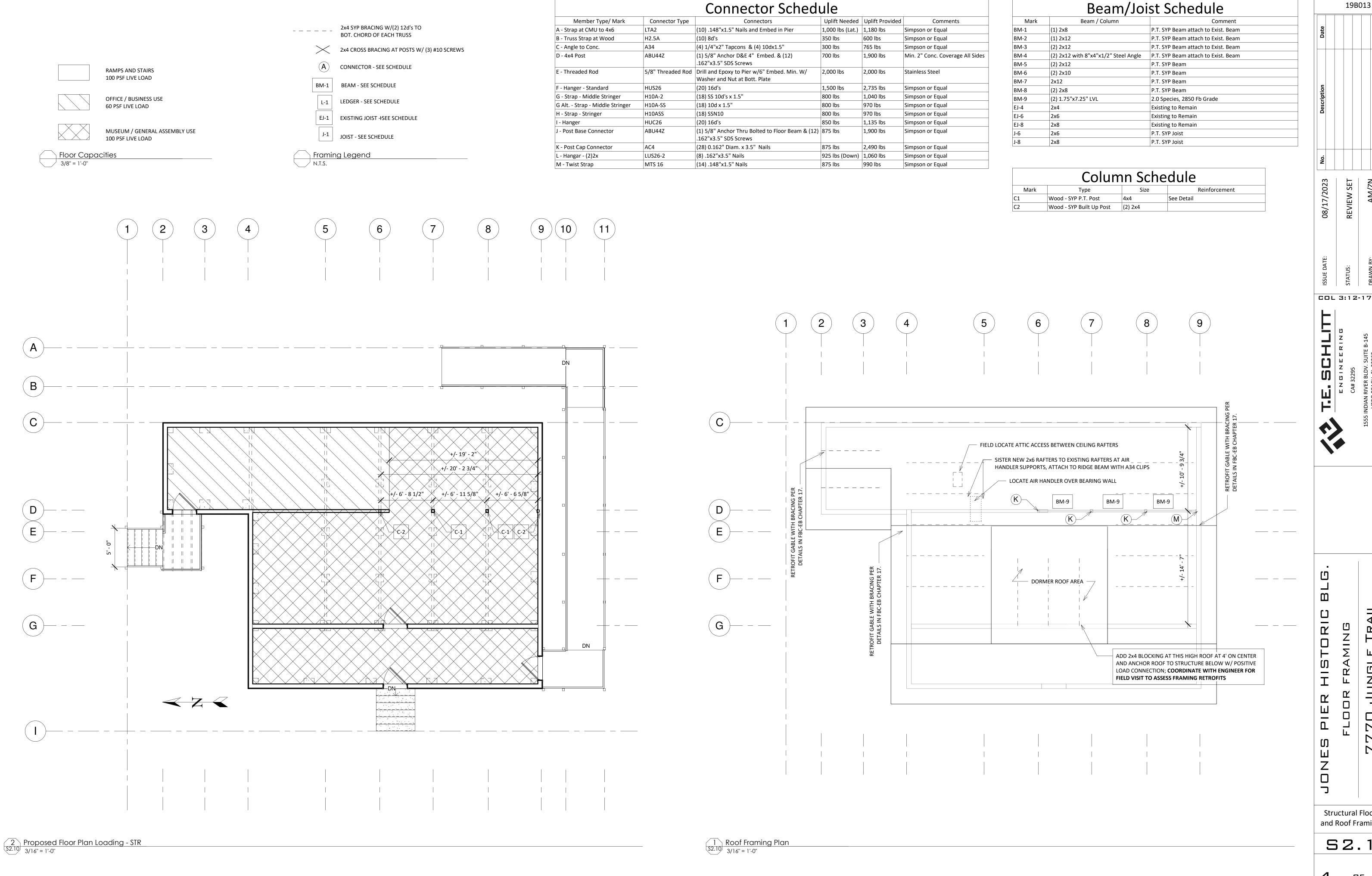
FLOOR FRAMING

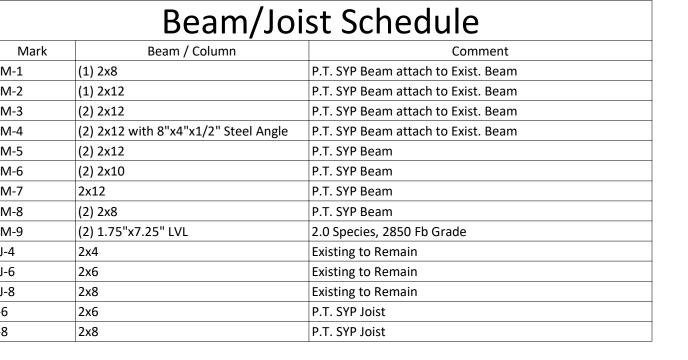
7770 JUNGLE TRAIL

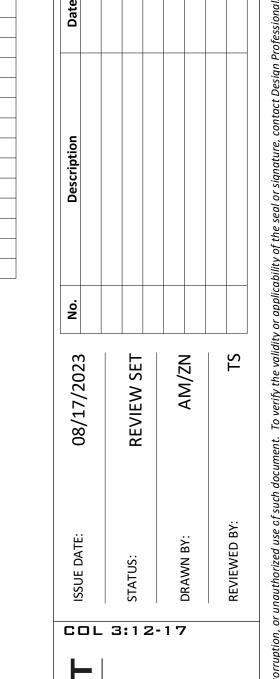
Floor Framing Plan

51.20

3 of







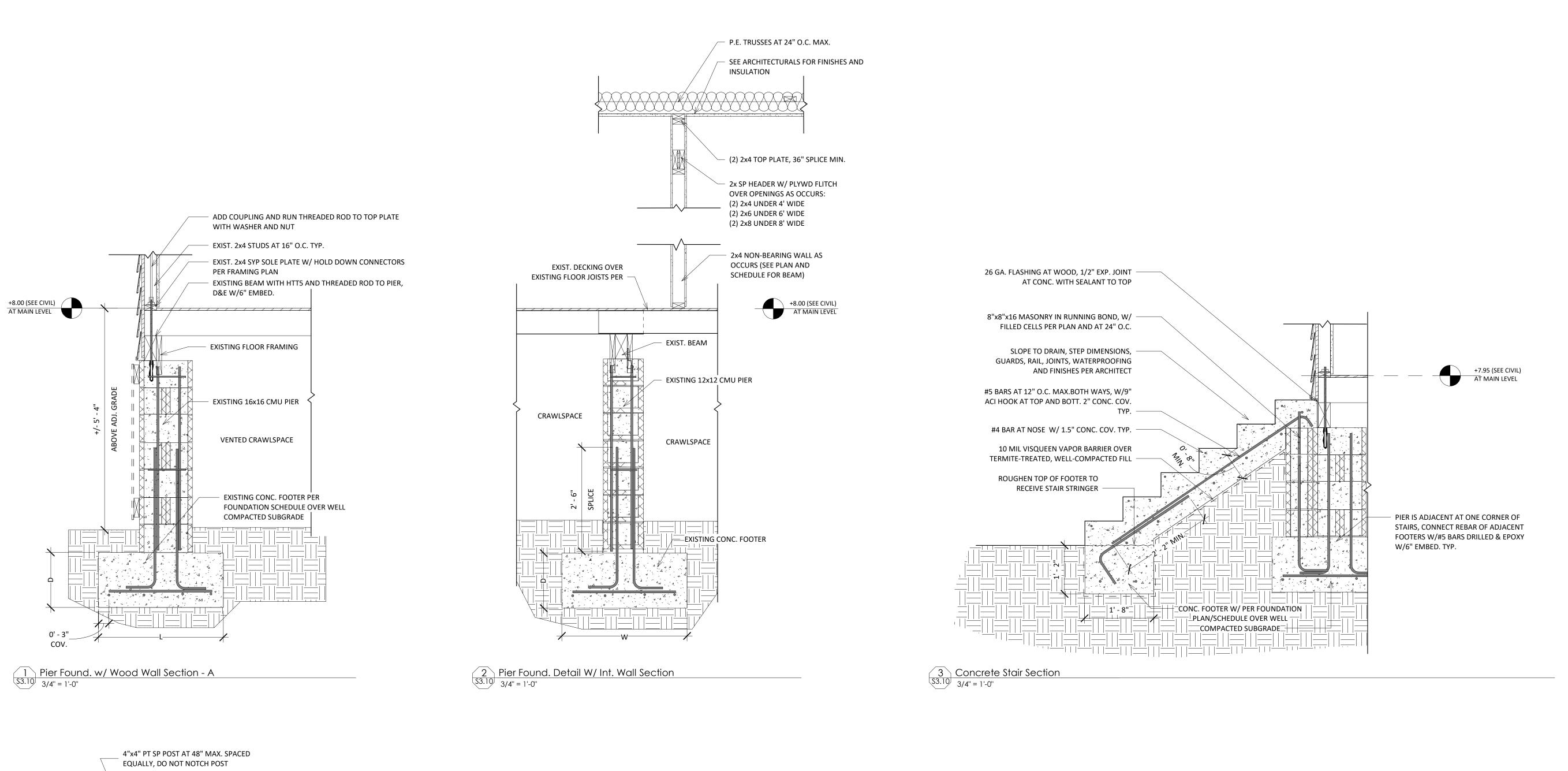
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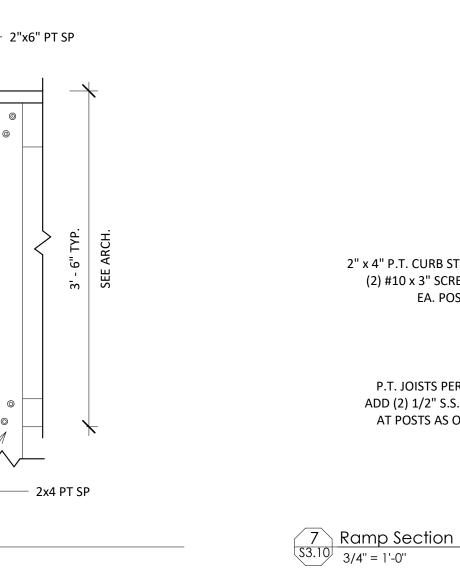


Structural Floor Plan and Roof Framing Plan

52.10

OF

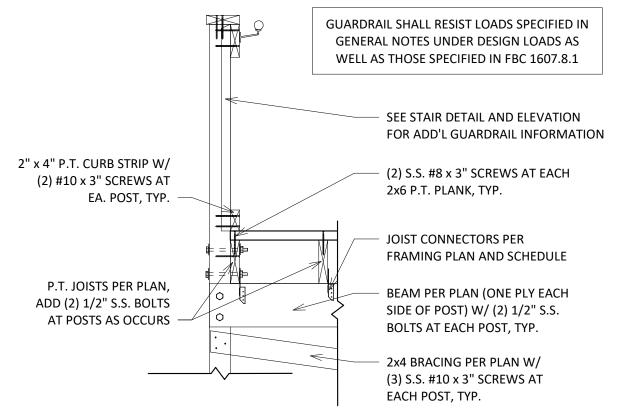


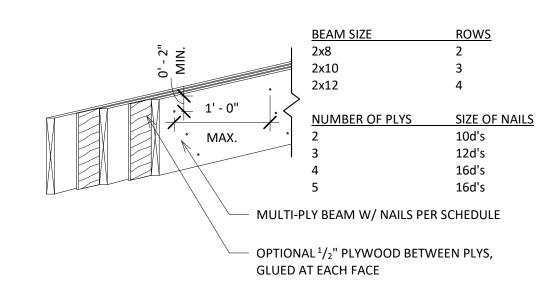


0' - 0 3/4"

6 Guardrail Elevation
1" = 1'-0"

(2) 1/2" THRU BOLTS WITH WASHERS AT EACH POST





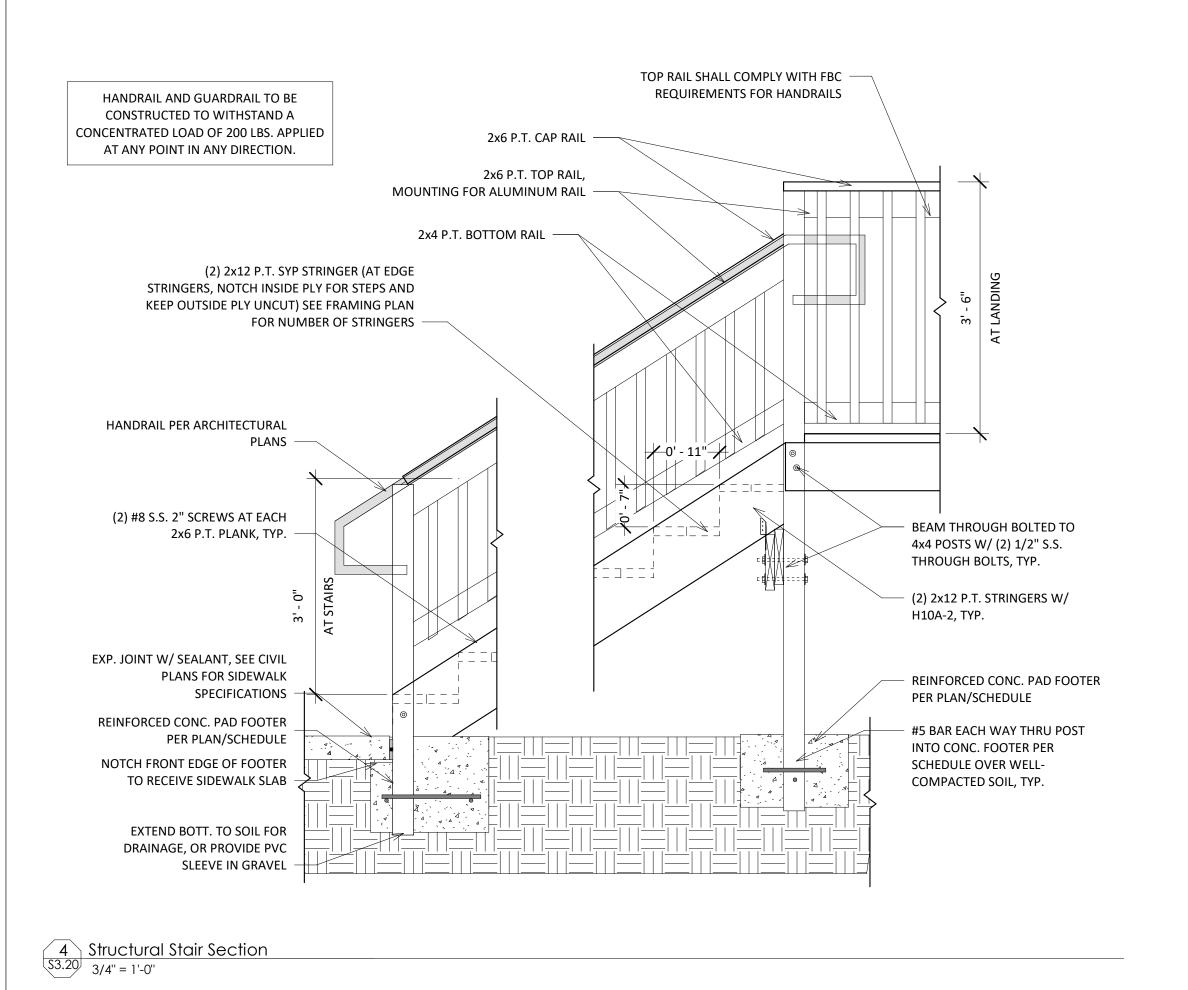
5 Multi Ply Beam Detail 33.10 1" = 1'-0"

5	Stru	JONES PIER HISTORIC	HISTORIC BLG.	T.E. SCHLITT
3 3		C C		ENGINEERING
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. 1	ier Se etails	UV 0777	7770 JUNGLE TRAIL	1555 INDIAN RIVER BLDV. SUITE B-145 VERO BEACH, FL 32960
				772.360.4998 INFO@SCHLITTENGINEERING.COM
	ns	VERO BEACH, FL	INDIAN RIVER COUNTY, 32963	
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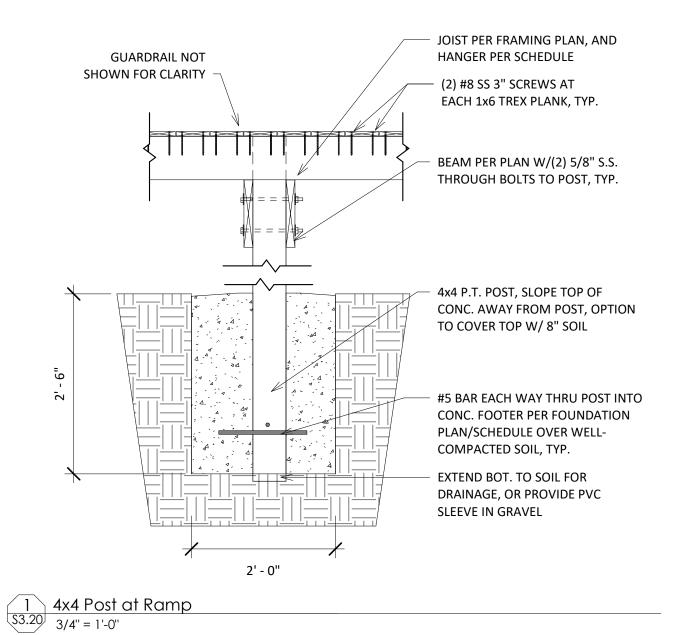
OF

PROJECT NUMBER: 19B013

COL 3:12-17



2x6 P.T. CAP W/ (2) #10 SCREWS SEE ARCHITECTURALS FOR GUARDRAIL SHALL RESIST LOADS SPECIFIED IN PER POST & #8 SCREWS TO TOP ADDITIONAL INFORMATION GENERAL NOTES UNDER DESIGN LOADS AS RAIL AT 12" O.C. MAX. NOT SHOWN HERE WELL AS THOSE SPECIFIED IN FBC 1607.8.1 4x4 P.T. POSTS PER PLAN -HANDRAIL AT STAIRS AND RAMP ONLY 2x6 P.T. TOP RAIL W/ (2) #10 ALL EXPOSED EXTERIOR FASTENERS SCREWS PER POST -SHALL BE MINIMUM STAINLESS STEEL UNLESS NOTED OTHERWISE 2x2 P.T. PICKETS SPACED 5" — (2) S.S. #8 x 3" SCREWS AT EACH 2x6 O.C. MAX. W/ #8 SCREWS TO P.T. PLANK, TYP. TOP AND BOTTOM RAILS (2) 2x12 P.T. SYP STRINGERS W/ (2) 2x4 P.T. BOTT. RAIL W/ (2) # 1/2" S.S. THRU BOLTS & 10 SCREWS TO POST -CONNECTOR "B" OUTSIDE PLY IS UNCUT AS SHOWN - (2) 2x12 P.T. SYP STRINGERS AT 24" O.C. MAX. W/ CONNECTOR 'G' BEAM PER PLAN W/ (2) 5/8" S.S. THROUGH BOLTS TO POST, TYP. 1 11 1 4x4 P.T. SYP., SLOPE TOP OF CONC. AWAY FROM POST, OPTION TO COVER TOP W/6" SOIL #5 BAR EACH WAY THRU POST INTO CONC. FOOTER PER SCHEDULE OVER WELL-COMPACTED SOIL, TYP. REINFORCED CONC. PAD FOOTER PER PLAN/SCHEDULE OVER WELL COMPACTED FILL EXTEND BOTT. TO SOIL FOR DRAINAGE, OR PROVIDE PVC SLEEVE IN GRAVEL 3 Inside Stringer Stair Detail \$3.20 3/4" = 1'-0"



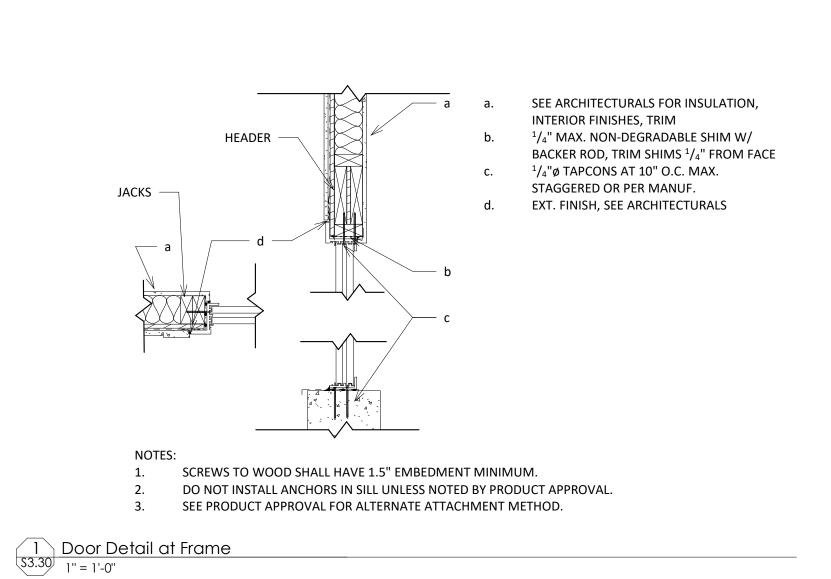
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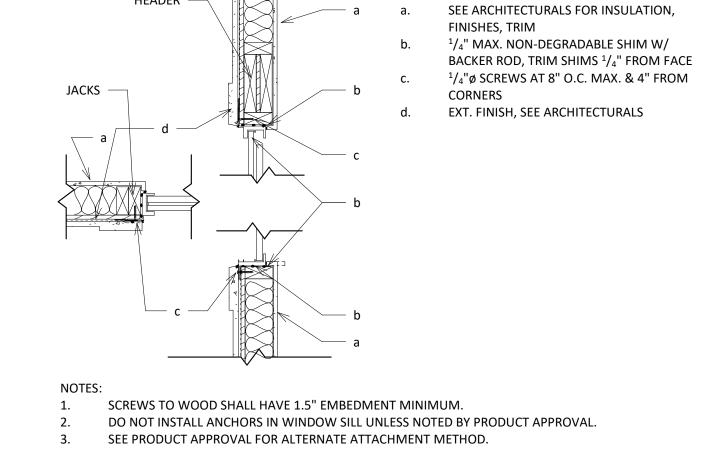
PROJECT NUMBER: 19B013

IEW SET

Structural Sections and Details 2

53.20

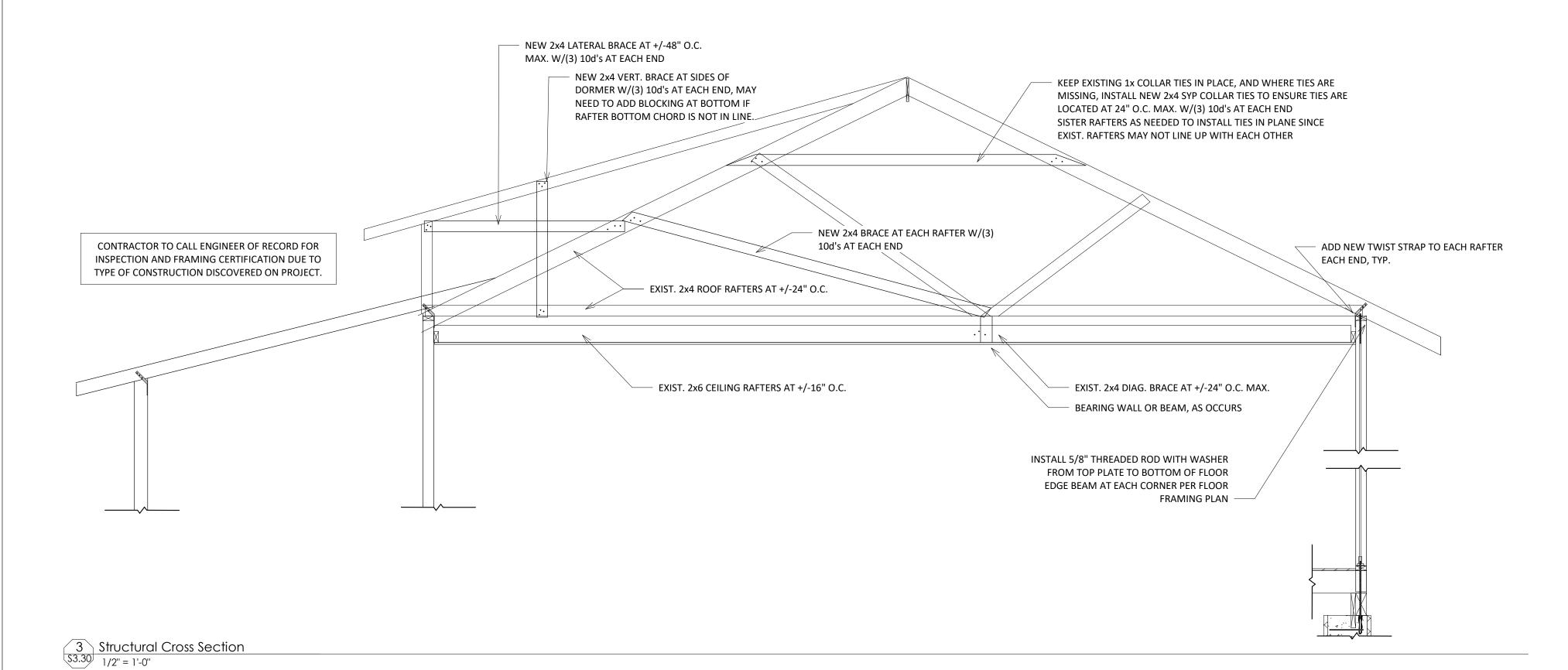


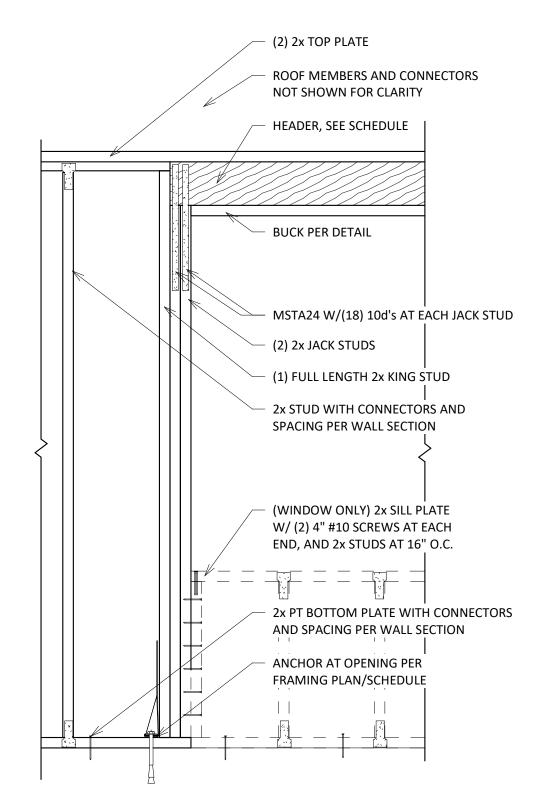


Window Detail at Frame

S3.30

1" = 1'-0"





4 Typical Header Detail 3/4" = 1'-0"

ENGINEERING E	7/2022 NO.	Description
3:	7,2027	
	:W SET	
CA# 32295		
	14C/3F	
) BEACH, FL 32960 LKAWN BY: L 3/ LN L 1 3/ LN	N3/61	
77.350.4998 HTTENGINEEBING COM		
REVIEWED BY: TS	LS	

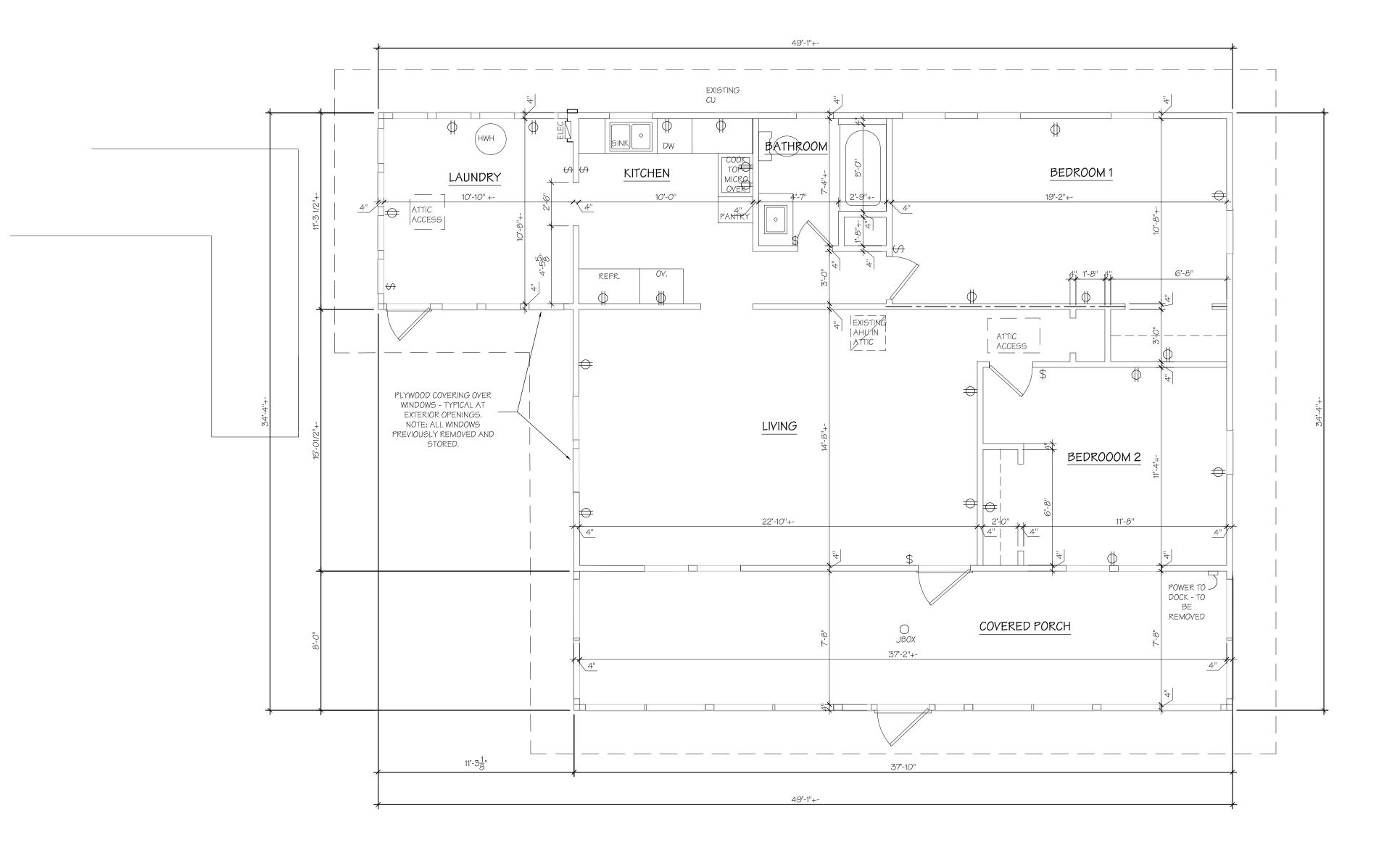
PROJECT NUMBER: 19B013

JONES PIER HISTORIC BLG.	FLOOR FRAMING	7770 JUNGLE TRAIL

Cross Section

Structural Details &

7 of



O1 EXISTING FLOOR PLAN

SCALE: 1/4" = 1'-0"

CONSTRUCTION LEGEND

EXISTING EXTERIOR STUD WALL: 2 X 4 WOOD STUDS @ APPROX. 16" O.C. W/ FIBERBOARD SIDING ON THE EXTERIOR (VERIFY INTERIOR FINISH).

EXISTING INTERIOR WALL - NON-BEARING: 2 X 4 WOOD
STUDS @ APPROX. 16" O.C. WITH WOOD PANELING FINISH
EA. SIDE(OR DRYWALL - VERIFY)

EXISTING INTERIOR STUD WALL - BEARING: 2 X 4 WOOD
STUDS @ APPROX. 16" O.C. W/ WOOD PANELING FINISH EA.
SIDE (OR DRYWALL - VERIFY).

Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963

Indian River County Parks Division

Key Plan:

Issues:
No.: Date: Description:
A. 05/20/21 GRANT SUBMITTAL
B. 07/09/21 GRANT SUBMITTAL
C. 07/23/21 FINAL GRANT SUBMITTAL
D. 09/01/21 DHR REVISIONS
E. 08/18/23 BID PACKAGE

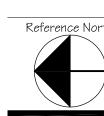
Archit



Tel.772.794.2929 Fax.772.562.8600 License No. AA0002238 www.spiezle.com

Consultant:

Drawing Title:
HISTORIC RESIDENCE
EXISTING FLOOR PLAN



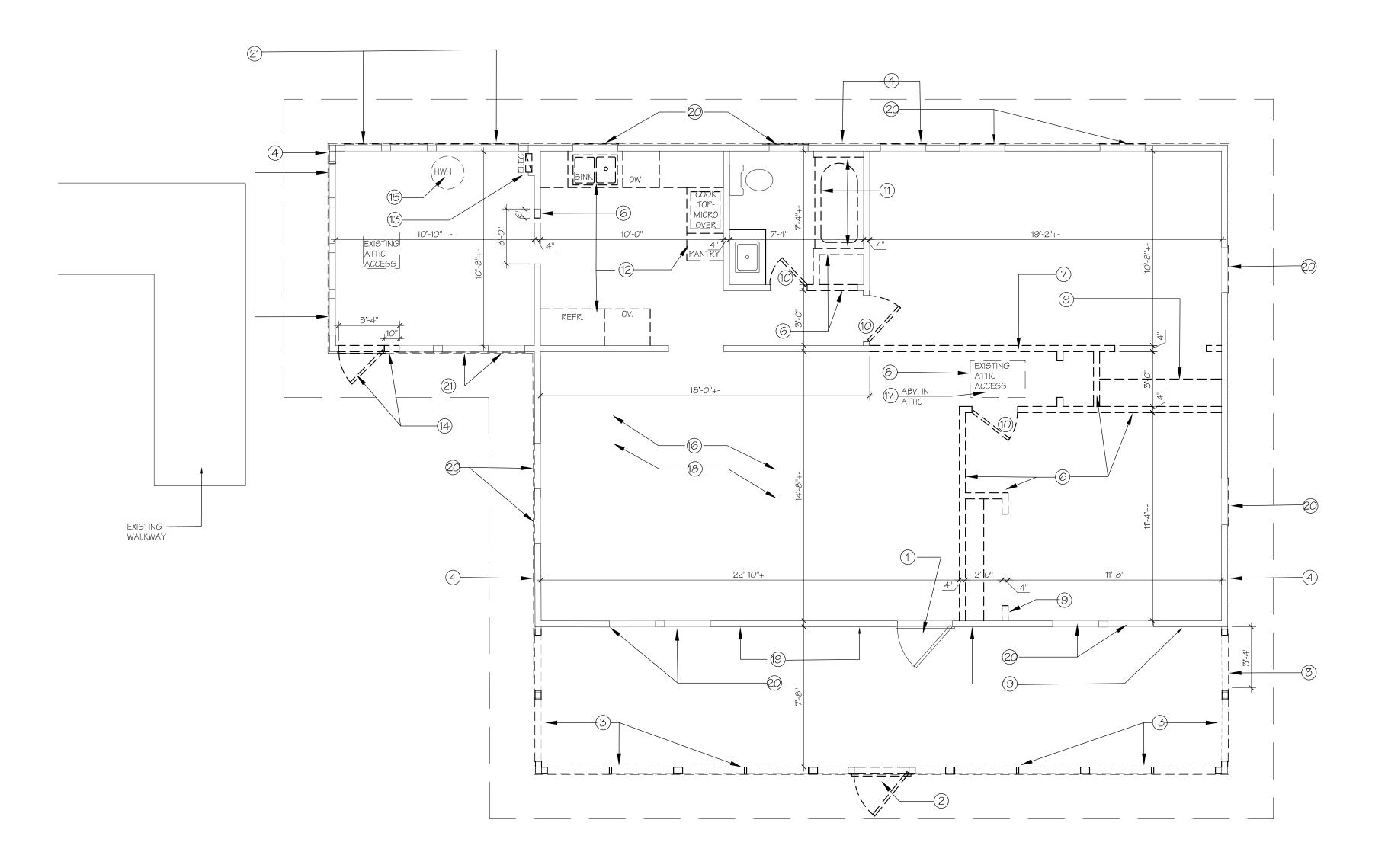
Drn: Dwg. File:

JLH
Chd: XREF File:

TD
Project No.: Plot File:
2018-23.03 spiezle: 21Z

Cert. No.: 12,456

EC 2.10



O1 DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

DEMOLITION NOTES

- 1. EXISTING WOOD FRONT ENTRY DOOR TO REMAIN. RE-FINISH VERIFY WITH OWNER.
- (2.) REMOVE EXISTING EXTERIOR DOOR & FRAME.
- 3. EXISTING FINISH BELOW WINDOW OPENINGS TO BE REMOVED TO WOOD STUDS. VERTICAL STRUCTURAL SUPPORT TO REMAIN.
- 4.) REMOVE EXISTING EXTERIOR SIDING AND SHEATHING TO STUDS. REMOVE EXISTING GABLE END SIDING.
- (5.) NOT USED
- 6.) REMOVE EXISTING NON-BEARING WALLS- VERIFY WITH STRUCTURAL DRAWINGS.
- 7. REMOVE EXISTING BEARING WALL- SEE STRUCTURAL DRAWINGS FOR BRACING AND SHORING INFORMATION IN PREPARATION FOR NEW BEAM & COLUMN SUPPORTS.
- 8. REMOVE EXISTING ATTIC ACCESS. SEE SHEET A210 FOR NEW ATTIC ACCESS LOCATION FIELD VERIFY PROVIDE OPENING.
- (9.) REMOVE EXISTING CLOSET DOORS, ROD AND SHELVING.
- (10.) REMOVE EXISTING DOOR AND FRAME.
- (11.) REMOVE EXISTING TUB AND TILE SURROUND.
- 12.) REMOVE ALL CABINETRY- UPPER, LOWER & SOFFITS. REMOVE EXISTING APPLIANCES AND PLUMBING FIXTURES.
- 13.) REMOVE EXISTING ELECTRIC PANEL AND ALL EXISTING ELECTRIC WIRING, OUTLETS AND FIXTURES.
- 14.) REMOVE EXISTING DOOR AND FRAME. REMOVE PORTION OF EXISTING EXTERIOR WALL TO ALLOW FOR NEW DOOR.
- (15.) REMOVE EXISTING ELECTRIC HOT WATER HEATER.
- 16. REMOVE ALL EXISTING VINYL FLOORING THROUGHOUT STRUCTURE.
- 17.) REMOVE ALL EXISTING CEILING TILES. FURRING STRIPS TO REMAIN GC TO VERIFY CONDITION; REPAIR AND REPLACE AS
- (18.) REMOVE EXISTING AHU, AC DUCTWORK, SUPPLY AND RETURN IN ATTIC AND CEILINGS.
- (19.) EXISTING SIDING TO REMAIN FRONT PORCH WALL.
- 20.) PLYWOOD OVER EXISTING WOOD WINDOW OPENINGS. REMOVE PLYWOOD AS STORED ORIGINAL WINDOWS ARE RE-INSTALLED IN OPENINGS.
- 21.) PLYWOOD OVER EXISTING ALUMINUM WINDOW OPENINGS. REMOVE PLYWOOD AS NEW ALUMINUM WINDOWS ARE INSTALLED IN EXISTING OPENINGS.

GENERAL CONSTRUCTION NOTES

- 1. ALL CODES HAVING JURISDICTION SHALL BE OBSERVED STRICTLY FOR THE DEMOLITION WORK, INCLUDING ALL STATE, LOCAL, BUILDING AND FIRE CODES.
- 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS OF THE BUILDING PRIOR TO THE START OF DEMOLITION AND NOTIFY THE OWNER AND ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- 3. THE ARCHITECT SHALL NOT BE HELD RESPONSIBLE FOR AND NOT HAVE CONTROL OR CHARGE OF THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES AND THE SAFETY PRECAUTIONS IN CONNECTION WITH THE DEMOLITION WORK.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE
- BRACING AND/OR SHORING OF STRUCTURAL AND NON-STRUCTURAL ITEMS DURING DEMOLITION.

 5. CONTRACTOR SHALL PROTECT FROM DAMAGE, DURING CONSTRUCTION, ALL EXISTING WALLS, FLOORING, CEILINGS, DOORS, STRUCTURE, ETC. THAT ARE NOT REMOVED OR
- RENOVATED.
 6. CONTRACTOR SHALL INDICATE ACCEPTANCE OF ALL SURFACES TO RECEIVE NEW WORK AFTER DEMOLITION OF
- EXISTING AND PRIOR TO PROCEEDING WITH WORK.

 7. ALL EXISTING MATERIAL AND FINISHES TO REMAIN, THAT ARE DAMAGED AS A RESULT OF THE DEMOLITION WORK, SHALL BE PATCHED, AND REPAIRED TO MATCH EXISTING FINISHES OR THOSE AS SPECIFIED BY THE OWNER.
- 8. CONTRACTOR SHALL COORDINATE RECEIVING AND STAGING AREAS WITH THE OWNER, ALONG WITH THE PATH OF TRAVEL BEING USED TO BRING IN MATERIALS AND EQUIPMENT FOR THE DEMOLITION AREA.

Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963

Indian River County Parks
Division

Key Plan:

Issues:

No.: Date: Description:

A. 05/20/21 GRANT SUBMITTAL

B. 07/09/21 GRANT SUBMITTAL

C. 07/23/21 FINAL GRANT SUBMITTAL

E. 08/18/23 BID PACKAGE

Architect:



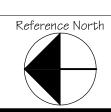
DONADIO
& Associates, Architects P.A.
A Spiezle Group Inc. Company

SPIEZLE ARCHITECTURAL GROUP INC.

2001 9th Avenue, Suite 308
Vero Beach, FL 32960
Tel.772.794.2929
Fax.772.562.8600
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www.spiezle.com

Consultant:

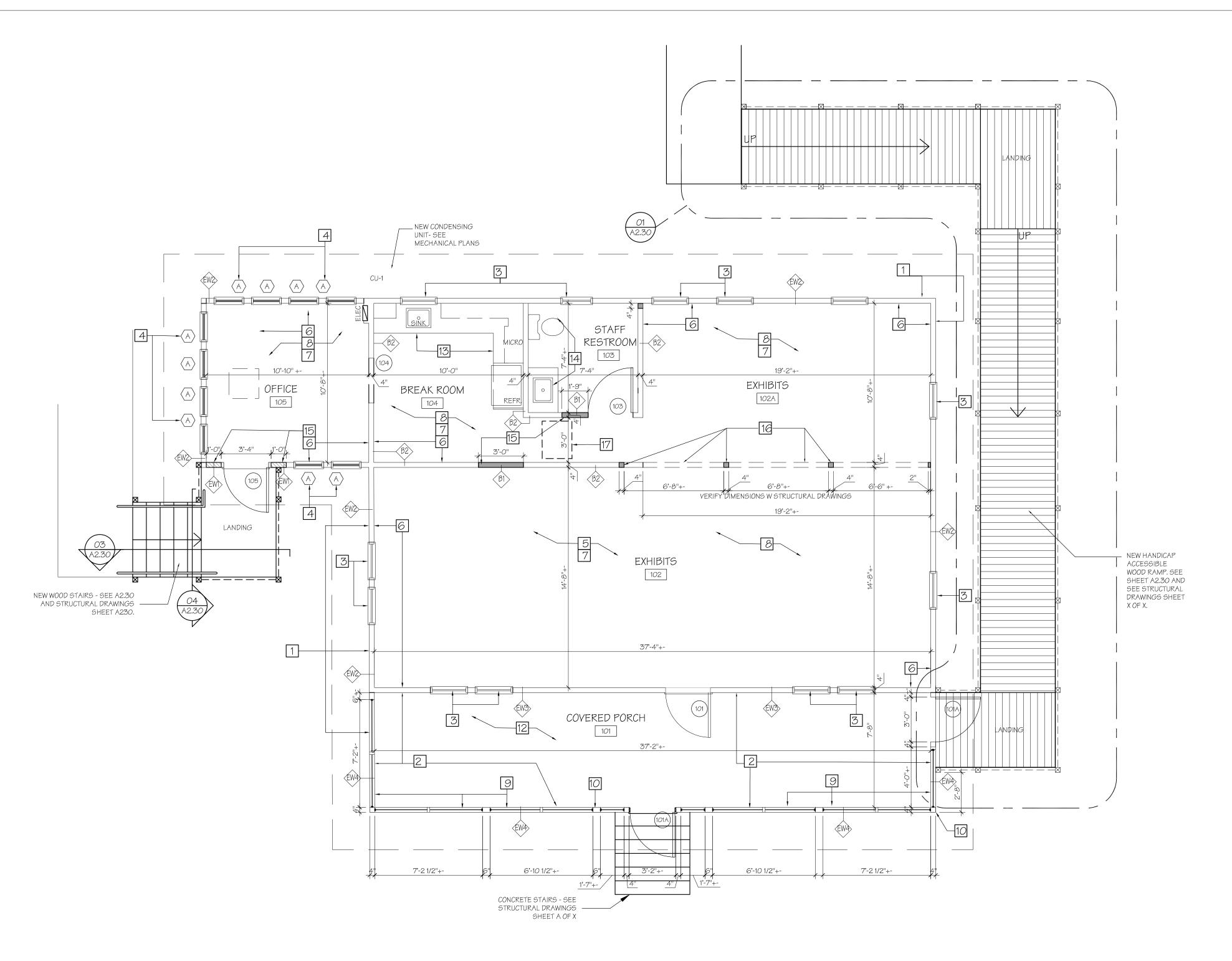
Drawing Title:
HISTORIC RESIDENCE
DEMOLITION PLAN



Cert. No.: 12,456

Date Signed:

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PROPOSED FLOOR PLAN SCALE: 1/4" = 1'-0"

AREA TABULATION

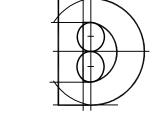
LIVING AREA/ EXHIBIT SPACE 791 SF BREAK ROOM/ 119 SF OFFICE 126 SF TOTAL AIR CONDITIONED SPACE 1036 SF

PORCH 303 SF TOTAL AREA UNDER ROOF 1339 SF

Project: JONES' PIER CONSTRUCTION KEY NOTES: CONSERVATION AREA 1. NEW EXTERIOR SIDING - CEMENT BEVEL LAP SIDING. MATCH TO BEST AVAILABILITY THE ORIGINAL SIDING PROFILE FOUND ON EXISTING WALL. HISTORIC 2. EXISTING (ORIGINAL) SIDING AT PORCH WALL TO REMAIN. RESIDENCE 3. EXISTING WOOD WINDOWS TO BE RE-INSTALLED. NOTE: COORDINATE STORAGE AND RETRIEVAL OF EXISTING WOOD WINDOWS FROM PHASE I WORK. MUSEUM 4. NEW WINDOWS: 'WINDOOR' SERIES 360; SINGLE HUNG IMPACT RESISTANT OR EQUAL. SEE SHEET A6.10 7770 Jungle Trail 5. NEW R- 30 BATT INSULATION IN ATTIC AND FLOOR. NEW R-11 INSULATION IN Vero Beach FL 32963 6. INTERIOR WALLS TO BE FINISHED WITH BEAD BOARD PANELING; MDF PRE-FINISHED 4 X 8 SHEETS, OVER $\frac{1}{2}$ " PLYWOOD INTERIOR SHEATHING. GC TO VERIFY ANY EXISTING MATERIAL THAT CAN BE RE-INSTALLED. Indian River County Parks Division 7. NEW INTERIOR CEILINGS TO BE 5/8" GYPSUM BOARD, SMOOTH FINISH ON EXISTING FURRING STRIPS. GC TO VERIFY CONDITION OF FURRING STRIPS PRIOR TO INSTALL - REPAIR & REPLACE AS NEEDED. EXISTING CROWN MOULDING TO BE REPLACED. 8. INTERIOR FLOORS TO BE ENGINEERED WOOD FLOORING; PATTERN AND COLOR TO REFLECT WOOD FLOORING COMMONLY USED DURING THE TIME OF ORIGINAL CONSTRUCTION - TO BE SELECTED BY OWNER. 9. NEW WOOD FRAMED SCREEN ENCLOSURE AT FRONT PORCH. FIELD VERIFY EXISTING OPENINGS FROM SILL TO BEAM. 10. EXISTING VERTICAL SUPPORT MEMBERS AND WINDOW OPENINGS AT FRONT PORCH TO REMAIN. ALL WOOD COLUMNS, FRAMING, TRIM, SIDING AND SCREEN FRAMING AT FRONT PORCH TO BE PAINTED. VERIFY COLOR WITH OWNER. ORIGINAL T&G PORCH CEILING TO REMAIN. PATCH AND REPAIR AS NECESSARY. PAINT SELECTION BY OWNER. 12. NEW PORCH FLOORING TO BE PLASTIC COMPOSITE DECKING TO MATCH NEW RAMP DECKING MATERIAL. COLOR SELECTION BY OWNER 13. NEW CABINETRY AND APPLIANCES. COORDINATE ELECTRIC & S.S. CONNECTION 14. EXISTING SINK AND W.C. TO REMAIN. No.: Date: Description: 15. NEW WALL INFILL- VERIFY TYPE WITH LEGEND. A. 05/20/21 GRANT SUBMITTAL 16. NEW COLUMNS AND BEAM - SEE STRUCTURAL DRAWINGS. B. 07/09/21 GRANT SUBMITTAL 17. NEW ATTIC ACCESS LOCATION. FIELD VERIFY EXISTING CEILING FRAMING FOR C. 07/23/21 FINAL GRANT SUBMITTAL D. 09/01/21 GRANT RE-SUBMITTAL E. *08/18/23* BID PACKAGE CONSTRUCTION LEGEND _ _____ NEW EXTERIOR WALL- 2X4 WOOD STUDS @ 16" O.C. -SHEATHING, VAPOR BARRIER & SIDING @ EXTERIOR; $3\frac{1}{2}$ "-R-11 BATT INSULATION & WALL PANELING @ INTERIOR. EXISTING EXTERIOR WALL- NEW 5" CDX PLYWOOD SHEATHING, VAPOR BARRIER, 3 1"- R-11 BATT INSULATION



Architect:



DONADIO & Associates, Architects P.A.

A Spiezle Group Inc. Company

Vero Beach, FL 32960

Tel.772.794.2929 Fax.772.562.8600 License No. AA0002238

Consultant:

GENERAL CONSTRUCTION NOTES

1. ALL CODES HAVING JURISDICTION SHALL BE OBSERVED STRICTLY FOR THE DEMOLITION WORK, INCLUDING ALL STATE, LOCAL, BUILDING AND FIRE CODES. 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS OF THE BUILDING PRIOR TO THE START OF DEMOLITION AND NOTIFY THE OWNER AND ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

3. THE ARCHITECT SHALL NOT BE HELD RESPONSIBLE FOR AND NOT HAVE CONTROL OR CHARGE OF THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES AND THE SAFETY PRECAUTIONS IN CONNECTION WITH THE DEMOLITION WORK. 4.CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE

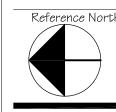
BRACING AND/OR SHORING OF STRUCTURAL AND NON-STRUCTURAL ITEMS DURING DEMOLITION. 5. CONTRACTOR SHALL PROTECT FROM DAMAGE, DURING CONSTRUCTION, ALL EXISTING WALLS, FLOORING, CEILINGS, DOORS, STRUCTURE, ETC. THAT ARE NOT REMOVED OR RENOVATED.

6.CONTRACTOR SHALL INDICATE ACCEPTANCE OF ALL SURFACES TO RECEIVE NEW WORK AFTER DEMOLITION OF EXISTING AND PRIOR TO PROCEEDING WITH WORK. 7. ALL EXISTING MATERIAL AND FINISHES TO REMAIN, THAT ARE DAMAGED AS A RESULT OF THE DEMOLITION WORK, SHALL BE PATCHED, AND REPAIRED TO MATCH EXISTING FINISHES OR THOSE AS SPECIFIED BY THE OWNER. 8.CONTRACTOR SHALL COORDINATE RECEIVING AND STAGING AREAS WITH THE OWNER, ALONG WITH THE PATH OF TRAVEL

BEING USED TO BRING IN MATERIALS AND EQUIPMENT FOR

THE DEMOLITION AREA.

Drawing Title: HISTORIC MUSEUM PROPOSED FLOOR PLAN

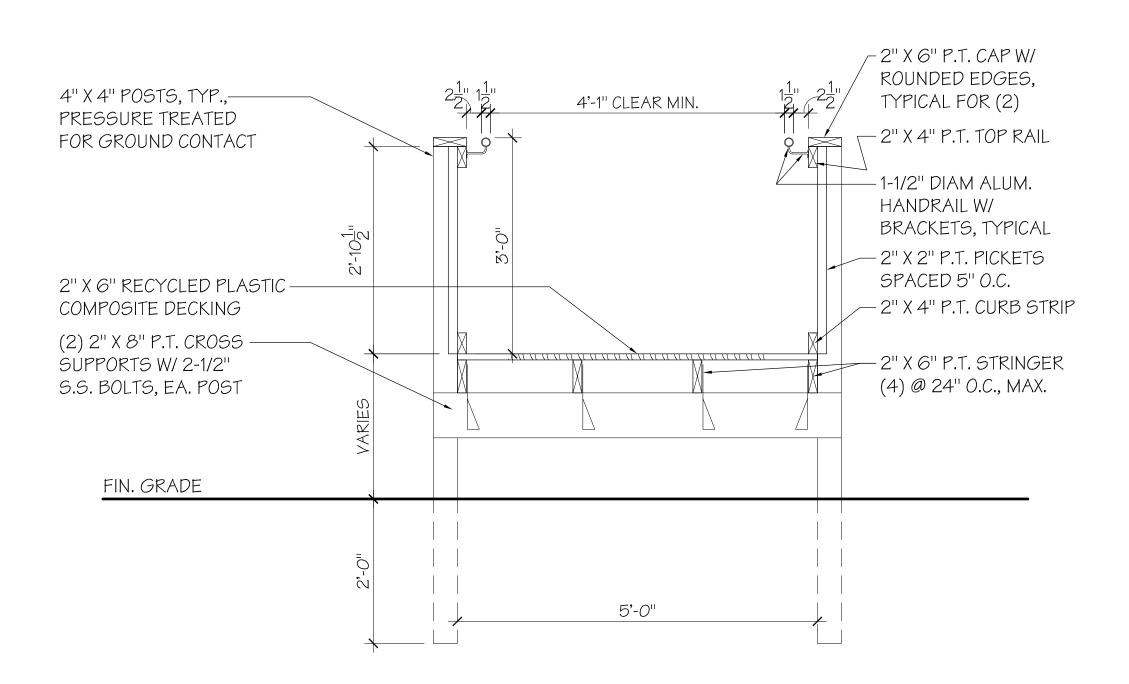


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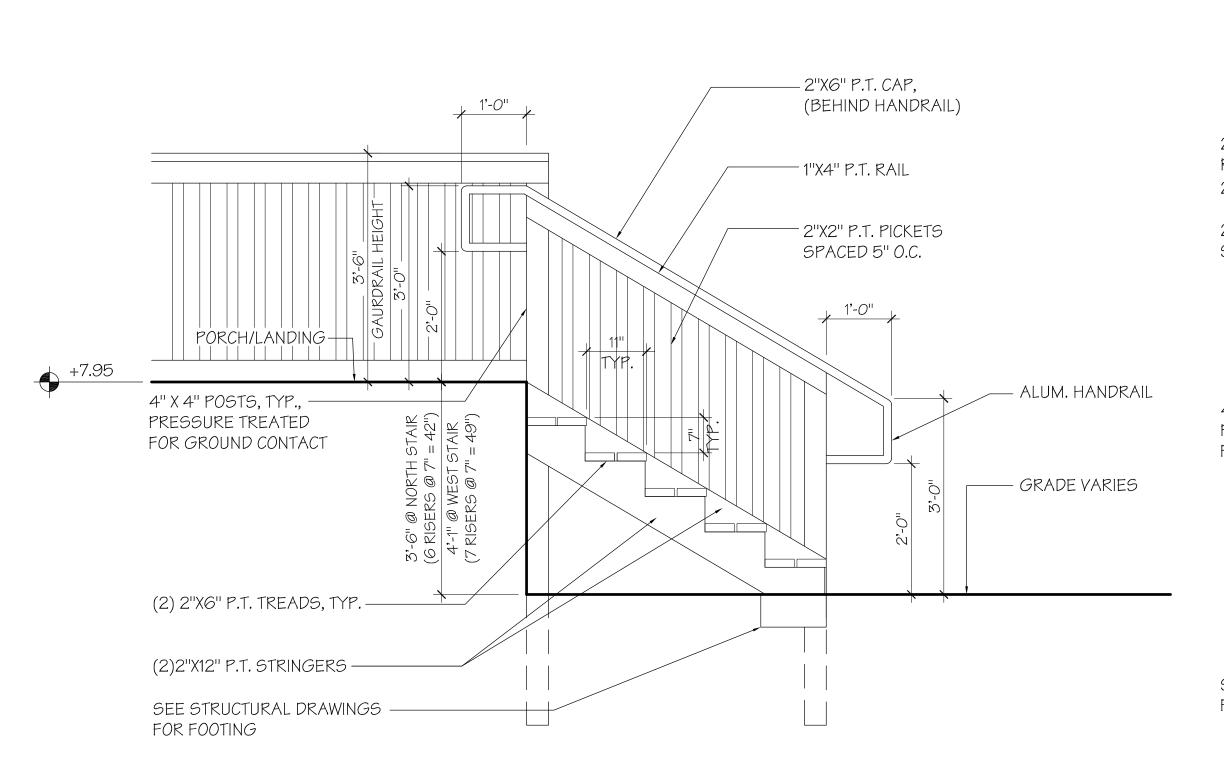
Cert. No.: 12,456

Date Signed:

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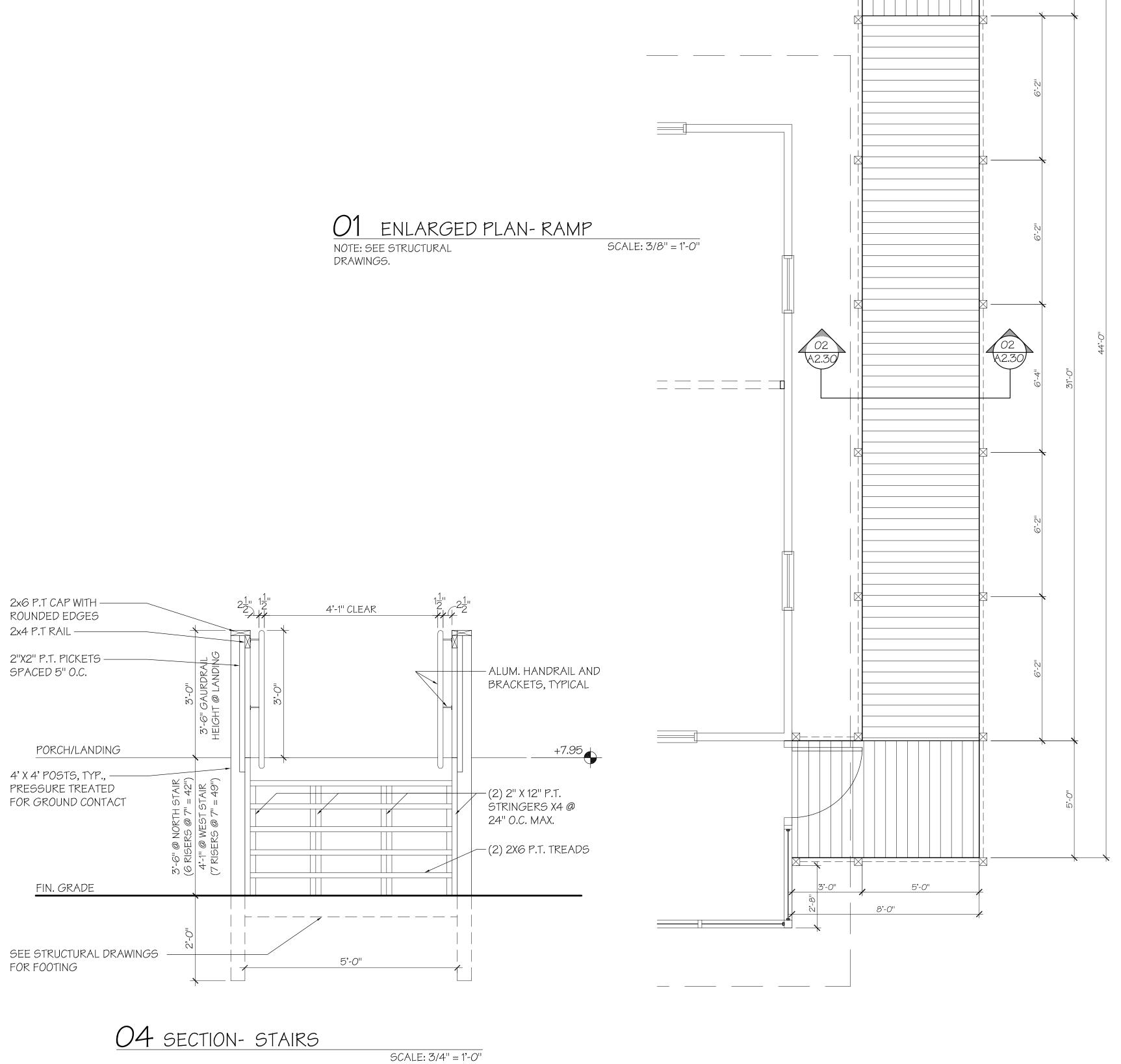
SCALE: 3/4" = 1'-0"



03 TYPICAL STAIR DETAIL

SCALE: 3/4" = 1'-0"

02 SECTION- RAMP



21'-0"

5'-4"

16'-0"

5'-0"

Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963 for

Indian River County Parks Division

Key Plan:

Issues:

No.: Date: Description:

A. 05/20/21 GRANT SUBMITTAL

B. 07/23/21 FINAL GRANT SUBMITTAL

E. 08/18/23 BID PACKAGE

Architect:



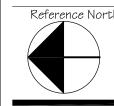
& Associates, Architects P.A.
A Spiezle Group Inc. Company

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Consultant:

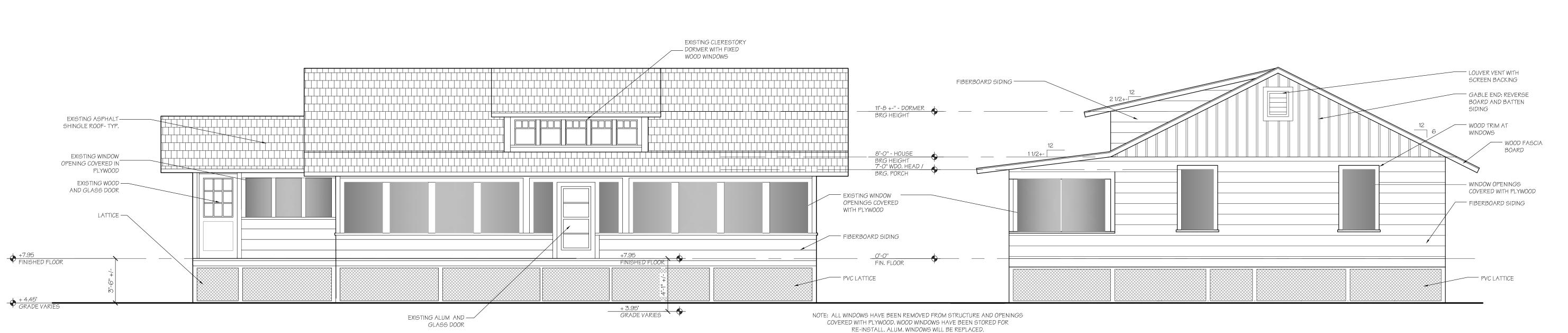
Drawing Title:
HISTORIC MUSEUM
ENLARGED PLANS & DETAILS



Cert. No.: 12,456

Date Signed:

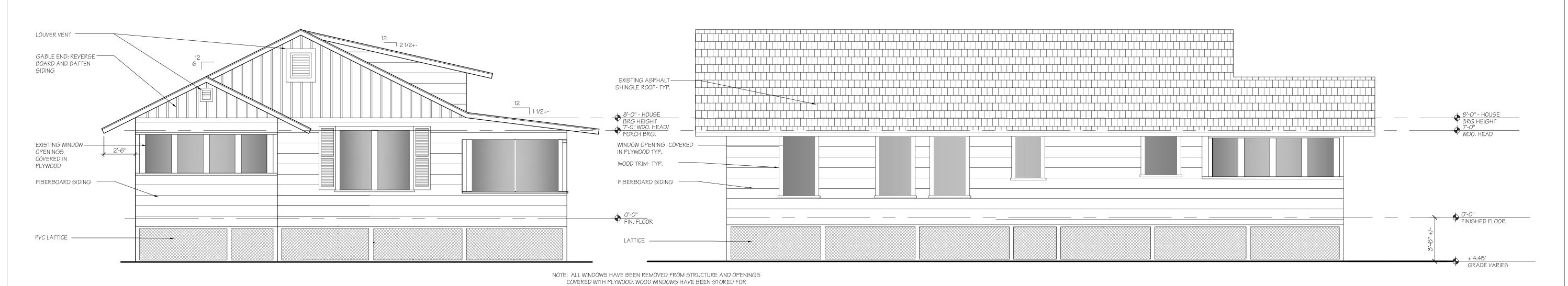
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01 WEST ELEVATION - EXISTING

SCALE: 1/4" = 1'-0"

02 SOUTH ELEVATION - EXISTING



RE-INSTALL. ALUM. WINDOWS WILL BE REPLACED.

03 NORTH ELEVATION - EXISTING

SCALE: 1/4" = 1'-0"

04 EAST ELEVATION - EXISTING

SCALE: 1/4" = 1'-0"

Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963

Indian River County Parks Division

Key Plan:

No.:	Date:	Description:
Α.	05/20/21	GRANT SUBMITTAL
В.	07/09/21	GRANT SUBMITTAL
C.	07/23/21	FINAL GRANT SUBMITTA
D.	09/01/21	DHR REVISIONS
Ε.	08/18/23	BID PACKAGE

Architect:



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Spiezle

SPIEZLE ARCHITECTURAL GROUP INC.

2001 9th Avenue, Suite 308
Vero Beach, FL 32960

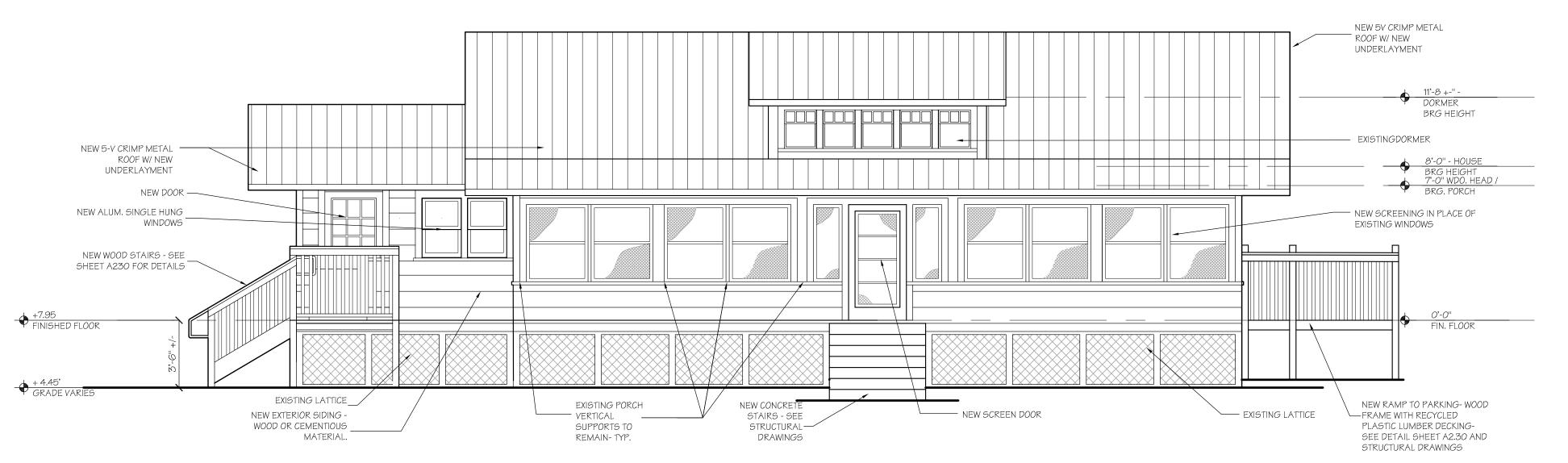
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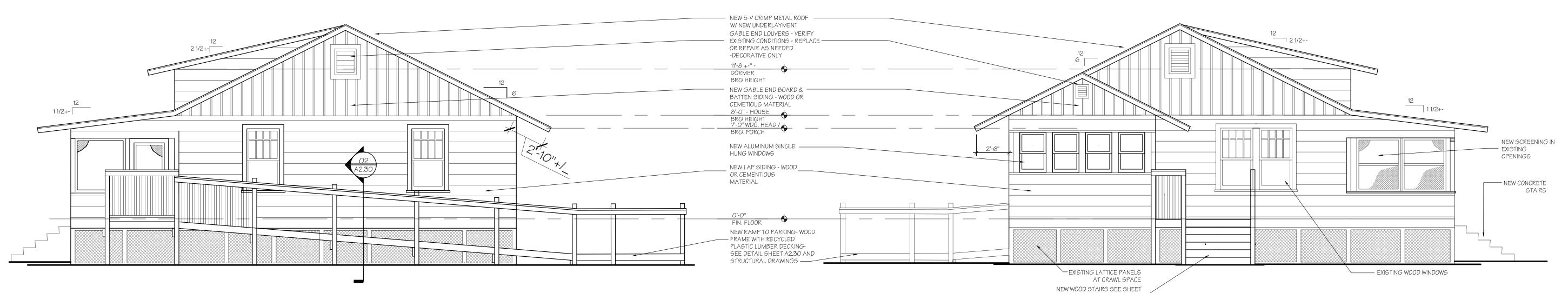
Consultant:

Drawing Title:

HISTORIC RESIDENCE
EXISTING ELEVATIONS



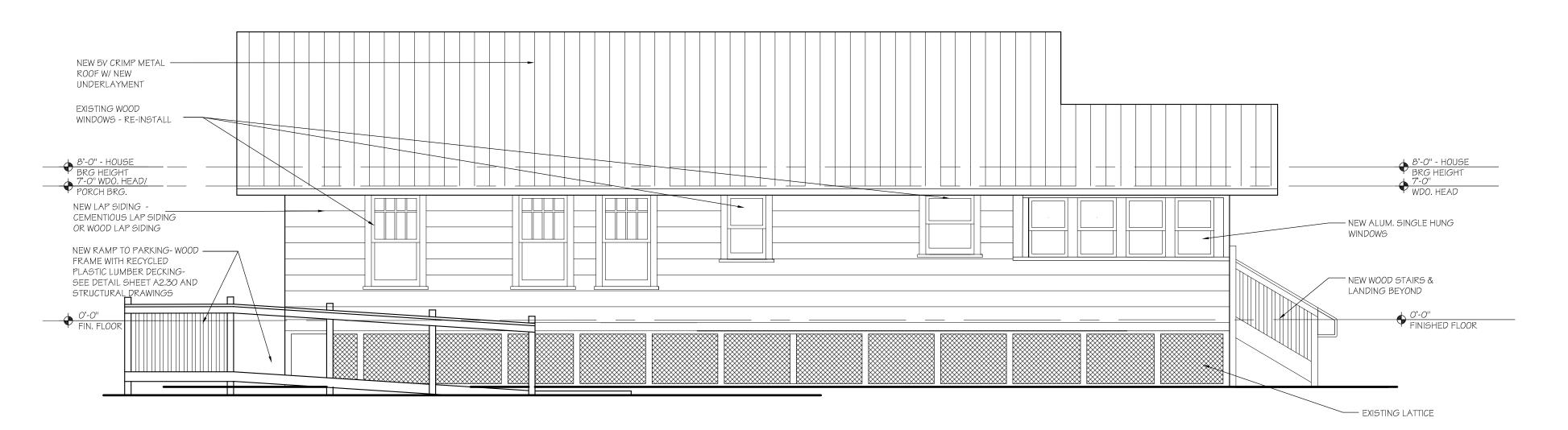
01 WEST ELEVATION - PROPOSED SCALE: 1/4" = 1'-0"



02 SOUTH ELEVATION - PROPOSED

SCALE: 1/4" =

03 NORTH ELEVATION - PROPOSED



04 EAST ELEVATION - PROPOSED

SCALE: 1/4" = 1'-0"

Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963 for

Indian River County Parks Division

Key Plan:

Issues:

No.: Date: Description:

A. 05/20/21 GRANT SUBMITTAL

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C. 07/23/21 FINAL GRANT SUBMITTAL

D. 09/01/21 DHR REVISIONSE. 08/18/23 BID PACKAGE

Architect:



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Consultant:

Drawing Title:

HISTORIC MUSEUM PROPOSED ELEVATIONS

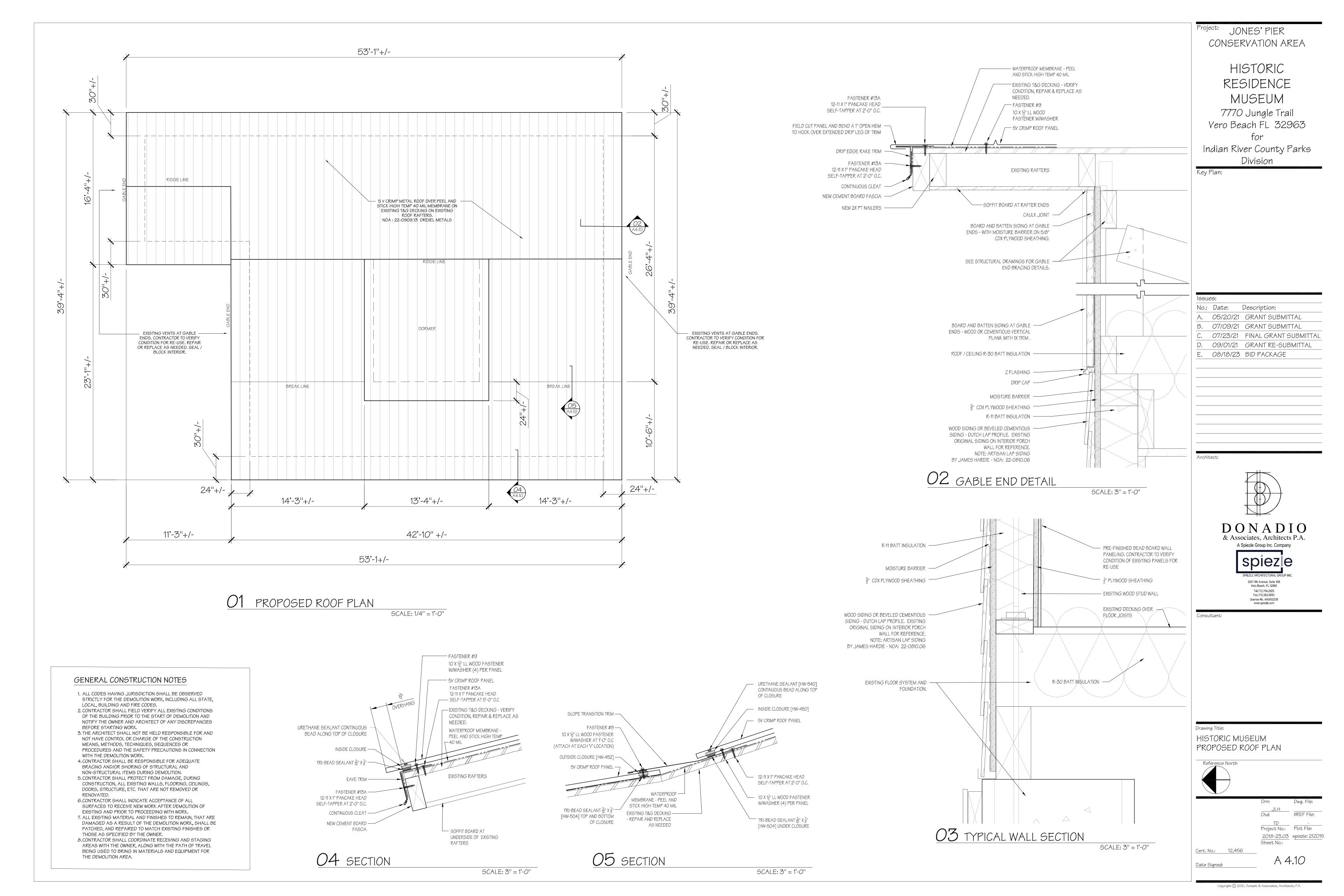
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JLH
Chd: XREF File:

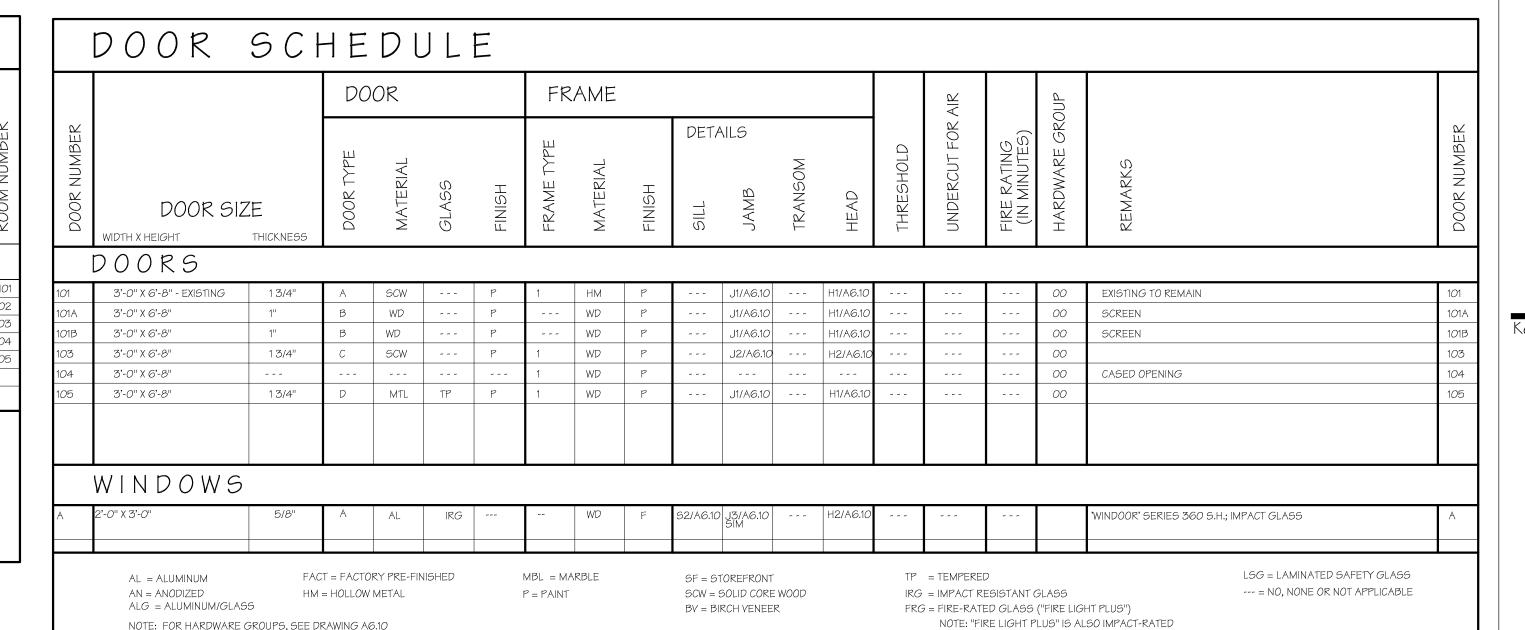
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2018-23.03 spiezle: 21ZO
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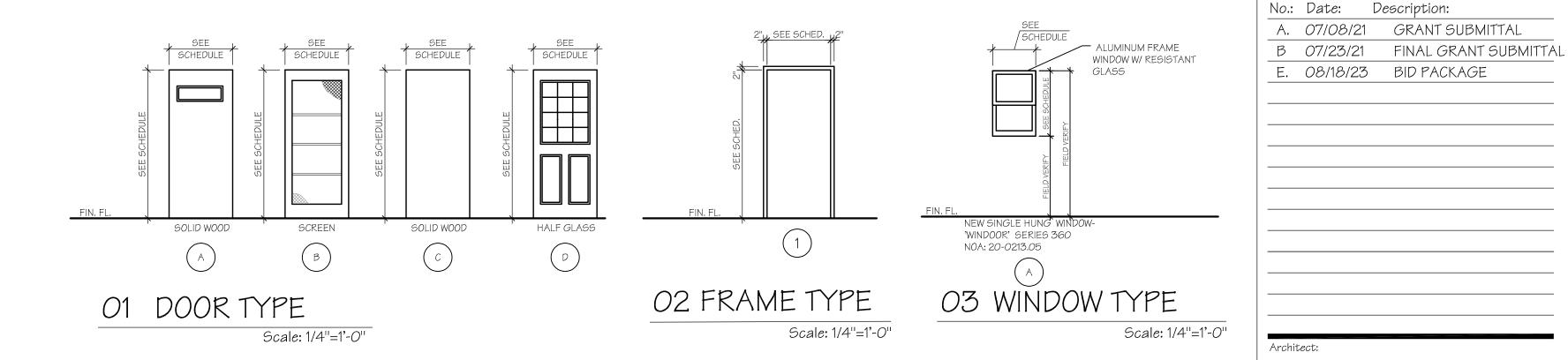
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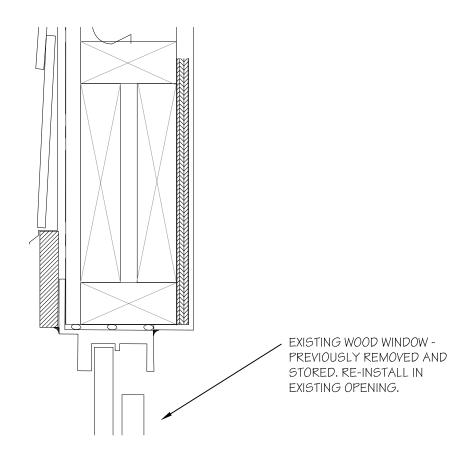
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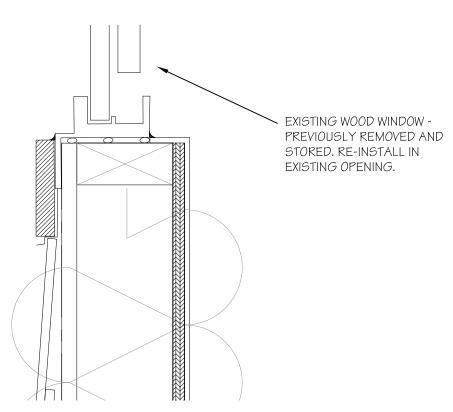
	ROOM	FII	116	— 5 Н	C	5 C	H E	DI	JL	E								
		FLOOR	, BA	\SE	WALL	-							CEILIN	1G				
BER					NO	RTH	50	UTH	EA	ST	WES	6T						の 177 8人
ROOM NUMBER	ROOM NAME	MATERIAL	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	REMARKS		ROOM NUMBER
	ROOM FIN	151	HES	I	1		ı	<u> </u>								•		<u> </u>
101	FRONT PORCH	WD	WD	Р	CB / SCRN		CB / SCRN	Р	CB / SCRN	P	WD-EX	Р	WD- EX	Р	VARIES	EXISTING WOOD CEILING- VER WEST WALL SIDING AT STRUC	IFY CONDITION- REPAIR / REPLACE AS NEEDED. TURE TO REMAIN	101
102	EXHIBITS STAFF RESTROOM	WD WD	WD WD	P	WP MRB	P	WP MRB	P	WP MRB	P	WP MRB	P	GYP GYP	P	8'-0" 8'-0"			102
104	BREAK ROOM	WD	WD	P	WP	P	WP	P	WP	P	WP	P	GYP	P	8'-0"			104
105	OFFICE	WD	WD	Р	WP	P	WP	P	WP	P	WP	Р	GYP	P	8'-0"			105
C	02.0022	BA CTB T TR RB WD	- PORCE - TRIM 1:	ELAIN TILE x 6 WOOD I BER BASE BASE		GYP - GYPSUM BOARD ACT - ACCO MRB - MOISTURE RESISTANT BOARD EXP - EXPOS					DUSTICAL TILE 5 - DISED STRUCTURE FACT - R CEMENT			6H - PAINT - STAIN - FACTORY - NO, NONE OR OR NOT APPLICABLE	NOTES			











SCALE: 3" = 1'-0"

SCALE: 3" = 1'-0"

ALUMINUM FRAMED WINDOW -CAULK JOINT ----2-3/4" X 2" X 1/8"— ALUMINUM CLOSURE - WOODEN SILL ANGLE SET IN SEALANT SELF-ADHESIVE -MEMBRANE FLASHING .040 ALUM. SILL FLASHING SEALANT ---— FASTENERS PER N.O.A. - 5/8" DRYWALL ON WOOD FRAMING @ 16" O.C. MAX. WALL TYPE W-1 ASSEMBLY PROVIDED BY LEGACY - R19 BATT INSULATION S1 SILL DETAIL - EXISTING WOOD WINDOWS S2 SILL DETAIL

SIDING OVER 5" CDX -

PLYWOOD

SELF-ADHESIVE _____ MEMBRANE FLASHING

ALUM. HEAD — FLASHING

> 1 × WOOD -TRIM

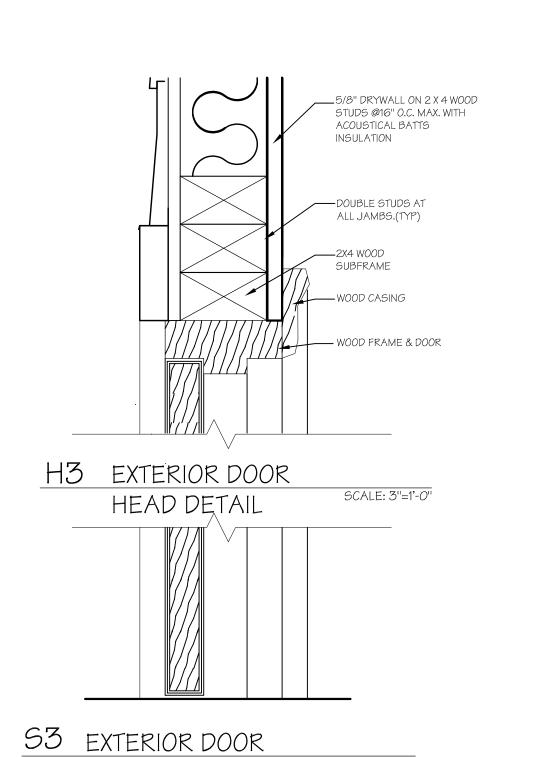
2-3/4" X 2" X 1/8" — ALUMINUM CLOSURE

CAULK JOINT -

H2 WINDOW HEAD

ANGLE SET IN SEALANT

ALUMINUM FRAMED WINDOW —



SILL DETAIL

SCALE: 3"=1'-0"

NOTE: FOR HARDWARE GROUPS, SEE DRAWING A6.10

R11 BATT INSULATION

PANELING

— ALUMINUM FRAME

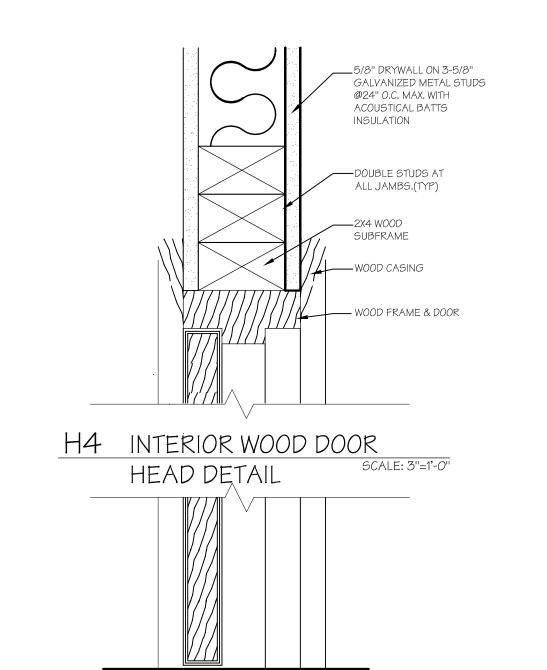
- FASTENERS PER NOA

SCALE: 3" = 1'-0"

SCALE: 3" = 1'-0"

1" PLYWOOD SHEATHING WITH

PREFINISHED BEAD BOARD



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54 INTERIOR WOOD DOOR SILL DETAIL

CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM 7770 Jungle Trail

Project: JONES' PIER

Indian River County Parks Division

Vero Beach FL 32963

lssues:

Date Signed:

		LIGHTING FIXTURE SCHE	DUL						
SYMBOL	TYPE	DESCRIPTION	NO.	LAMPS TYPE	WATT	DRIVER TYPE	VOLTAGE	MOUNTING	REMARKS
	A	LED TRACK LIGHTING	INTEGRAL	LED 3500°K	5	STANDARD	120	SURFACE MOUNTED	1
	B	4' LED LENSED STRIP H.E. WILLIAMS "AVEX" SERIES	INTEGRAL	LED 3500°K	56	STANDARD	120	SURFACE MOUNTED	1
&	©	LED SECURITY LIGHT STONCO "SL20" WITH INTEGRATED MOTION AND DAY LIGHTING SENSOR	INTEGRAL	LED 3000°K	20	STANDARD	120	SURFACE MOUNTED	1
•	D	4" LED DOWNLIGHT BOLD LIGHTING "CHAMELION R4" SERIES (WET LOCATION RATED FOR PATIO AREA)	INTEGRAL	LED 3500°K	15	STANDARD	120	CEILING RECESSED	1
	E	LED TAPE LIGHT Q-TRAN "SW24/4.0" WET LOCATION RATED	INTEGRAL	LED 3000°K	4W/FT	STANDARD	120	SURFACE MOUNTED	
		THERMOPLASTIC EMERGENCY BATTERY PACK AND EXIT LIGHT COMBO PACO "PCH" SERIES	2	-	12	-		_	
NOTES: Output Output									

AIN: 200 AMP MAIN LUGS ONLY VOLTAGE: 120/240V, 1ø, 3 WIRE														
PEC: EXISTING IOUNTING: EXISTING AIC SYMM: EXISTING														
DESCRIPTION	WIRE	GND.	COND.	TRIP	скт.	A PHAS		C PHASE KVA	CKT.	TRIP	COND.	GND.	WIRE	DESCRIPTION
XISTING LIGHTING	_	_	_	20	1	0.2 0	0.6		2	20	_	-	_	EXISTING RECEPTACLE
XISTING RECEPTACLE	_	-	_	20	3		- 1	0.2 1.5	4	-3 0	_	-	_	EXISTING IWH
XISTING HAND DRYER	_	-	_	20	5	1.0 1	.5		6	2				
XISTING HAND DRYER	_	-	-	20	7		- 1	1.0 1.0	8	₹0	_	-	_	EXISTING SCREW PUMP
XISTING RESIDENCE BUILDING	3#3	1#8	1-1/4"	100	9	11.0 1	.0		10	2				
				/2	11		-	9.6 1.0	12	20	_	-	_	EXISTING SANITARY STEP PUN
XISTING BUILDING	-	_	_	100	13	5.0	- [14	_	_	-	_	SPACE
				/2	15		- 1	5.0 -	16	_	_	-	_	SPACE
					17	- -	- 1		18	_	_	-	_	SPACE
						19.3		19.7	KVA	PER F	PHASE			
						160.8	3 1	164.1	AMF	S PER	PHASE			
							39.			AL KVA				

KEY NOTES

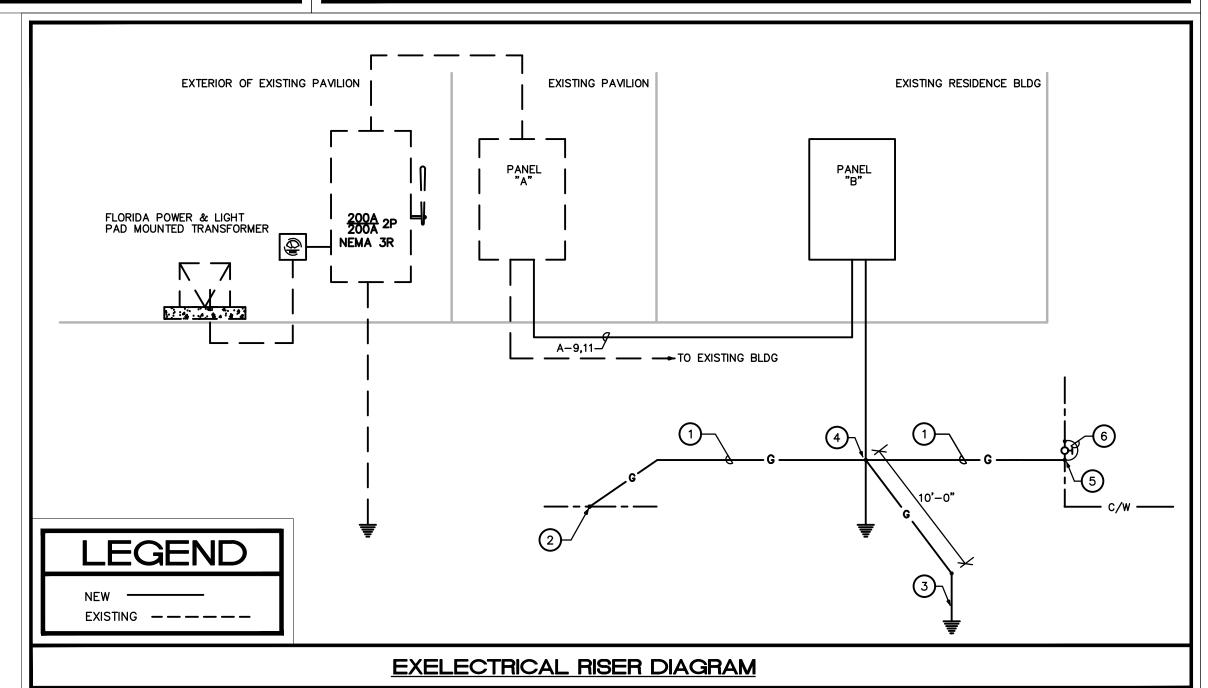
- 1 1-#2G GROUNDING ELECTRODE CONDUCTOR IN 1" SCHEDULE 40 PVC CONDUIT.
- 2 EXOTHERMIC CONNECTION. ELECTRICALLY CON-TINUOUS STEEL REINFORCING BAR (20FT MIN. LENGTH) IN BOTTOM OF BUILDING FOUNDATION IN DIRECT CONTACT WITH EARTH.
- 3 10 FT. LONG x 3/4" DIAMETER COPPER DRIVEN GROUND ELECTRODE.

ENTRANCE PIPE BEFORE FIRST VALVE WITH

- (4) EXOTHERMIC CONNECTION. (TYPICAL) 5 MAKE CONNECTION TO METALLIC COLD WATER
- 6 PROVIDE (1) #2 BONDING JUMPER AROUND FIRST VALVE.

HEAVY DUTY BRONZE GROUND CLAMP.

SCH	SCHEDULE OF BRANCH CIRCUIT PANEL "B"														
	PEC: SQUARE D TYPE "QO" LOAD CENTER OR APPROVED EQUIVALENT OUNTING: FLUSH AIC SYMM: 22,000														
DESCRIPTION WIRE GND. COND. TRIP CKT. A PHASE C PHASE KVA CKT. TRIP COND. GND. WIRE DESCRIPTION															
LIGHTING	#12	#12	1/2"	20	1	0.8 1.0		2	20	1/2"	#12	#12	RECEPTACLE		
LIGHTING	#12	#12	1/2"	20	3		0.8 1.5	4	20	1/2"	#12	#12	IWH		
CU-1	2#8	1#10	3/4"	45/	5	(*) 1.5		6	20	1/2"	#12	#12	IWH		
		"		/2	7		(*) 0.8	8	20	1/2"	#12	#12	RECEPTACLE		
AHU-1	2#8	1#10	3/4"	45/	9	4.9 1.0		10	20	1/2"	#12	#12	RECEPTACLE		
				/2	11		4.9 0.8	12	20	1/2"	#12	#12	RECEPTACLE		
EXTERIOR LIGHTING	#12	#12	1/2"	20	13	0.2 0.8		14	20	1/2"	#12	#12	RECEPTACLE		
EXTERIOR SECURITY LIGHTING	#12	#12	1/2"	20	15		0.2 0.8	16	20	1/2"	#12	#12	RECEPTACLE		
SPACE	_	_	_	_	17	- 0.8		18	20	1/2"	#12	#12	RECEPTACLE		
SPACE	-	_	_	_	19		- 0.8	20	20	1/2"	#12	#12	RECEPTACLE		
SPACE	_	_	_	_	21	- 0.8		22	20	1/2"	#12	#12	RECEPTACLE		
						11.0	9.6	KVA	PER I	PHASE					
						91.6	80.0	AMP	S PER	PHASE					
						20).6	I TOT	AL KV	4					



ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

- . THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED
- CORRECTIVE ACTION TO BE TAKEN. . THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZED IN THIS PROJECT.
- NATIONAL ELECTRICAL CODE (NFPA-70) 2. CODE FOR SAFETY TO LIFE (NFPA_101)
- 3. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING
- - SYSTEMS (NFPA-72)
- UNDERWRITERS' LABORATORIES (UL) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- FEDERAL SPECIFICATION (FED. SPEC.)
- . INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA) 9. FLORIDA BUILDING CODE. FBC 2020 EDITION
- 10. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) 11. CITY OF VERO BEACH BUILDING CODE. (AMENDMENTS TO FLORIDA BUILDING CODE FBC 2020) 12. ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE
- OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) . DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS
- FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE. . IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM
- AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED . ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND
- PROPERTY DAMAGE FOR THE DURATION OF THE WORK. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT THE CONTRACTOR IS TO FURNISH, INSTALL AND CONNECT COMPLETE.

PART 2 - PRODUCTS

- MINIMUM WIRE SIZE SHALL BE #12 A.W.G. (EXCEPT AS NOTED OTHERWISE FOR CONTROL WIRING). ALL CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER WITH "THHN-THWN" INSULATION UNLESS OTHERWISE
- . ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT AND SHALL BE HOT-DIPPED GALVANIZED.
- . OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- . RIGID NONMETALIC CONDUIT SHALL BE SCHEDULE 40 PVC.
- . ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
- 1. CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.
- 2. ALL CIRCUIT BREAKERS SHALL BE BOLT ON. PLUG-IN BREAKERS ARE NOT ACCEPTABLE. 3. CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL
- BE LISTED AND MARKED "SWD" 4. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
- 5. A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES.
- 6. ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.
- 7. ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS.
- . DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK, ENCLOSURES SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONSOR AS OTHERWISE NOTED. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH
- OVERLOAD RELAYS IN EACH PHASE. WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) COLOR SHALL BE COORDINATED

<u>PART 3 — EXECUTION</u>

- A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS: 208/120 VOLTS, 3 PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK, 1 RED AND 1
 - BLUE. GROUNDED (NEUTRAL) CONDUCTOR; WHITE. GROUNDING CONDUCTORS SHALL BE GREEN. 2. 480/277 VOLT. 3-PHASE. 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BROWN. 1 YELLOW. AND 1 PURPLE. GROUNDED (NEUTRAL) CONDUCTORS; GREY. GROUNDING CONDUCTORS SHALL BE GREEN. BRANCH CIRCUIT WIRING (#6 AND SMALLER) SHALL BE COLOR CODED BY CONTINUOUS INSULATION
 - COLOR AND FEEDERS AND SERVICES (#4 AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED FOR THE PURPOSE.
- WIRING METHODS 1. ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL
- RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE. 2. SCHEDULE 40 PVC CONDUIT. WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE. 3. TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR
- USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING
- ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. AND LOCAL CODES.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE
- COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING
- DEVICES, FOR ALL OUTLETS AS INDICATED. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW
- AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IECE. CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING
- FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL
- ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION.
- ANY CONFLICTS AND DESCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK. PER NEC 210.8(B)(2) ALL 15- AND 20-AMPERE, 125-VOLT RECEPTACLES IN NONDWELLING-TYPE KITCHENS

BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% DESIGN LOAD. FBC 2020 FBC ENERGY CONSERVATION SECTION 405.7.3.

Q. FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM OF 2% VOLTAGE DROP PER 405.7.3.

	ELECTRICAL SHEET INDEX										
E0.1	ELECTRICAL NOTES, LEGEND & INDEX										
E2.1	LIGHTING PLAN										
E3.1	POWER PLAN										

ELECTRICAL LEGEND

- TELEPHONE OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- TELEPHONE / DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNTED ÁBOVE COUNTER, SEE ÁRCHITECTURAL DRAWING FOR SPECIFIC REQUIREMENTS.
- TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT RUN TO THE NEAREST STUD WALL AND STUBBED OUT FROM WALL 6" ABOVE CEILING. PROVIDE BRASS COVER PLATE AND
- TELEVISION OUTLET WITH 1-1/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- 20 AMP SINGLE RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF
- OUTLET UNLESS NOTED OTHERWISE. 20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE
- OF OUTLET UNLESS NOTED OTHERWISE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH GROUND FAULT CIRCUIT INTERRUPTER, MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET. UNLESS NOTED OTHERWISE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18" A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.
- 20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18" A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED. 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), RECESS FLOOR MOUNTED. PROVIDE BRASS
- COVER PLATE AND CARPET FLANGE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), CEILING MOUNTED.
- SPECIAL-PURPOSE RECEPTACLE

CARPET FLANGE.

- JUNCTION BOX
- SINGLE GANG JUNCTION BOX FOR POWER CONNECTION TO MODULAR FURNITURE SYSTEM INSTALL IN EXACT MANNER AS DIRECTED BY FURNITURE SUPPLIER.
- DOUBLE GANG JUNCTION BOX FOR TELEPHONE/DATA CONNECTION TO MODULAR FURNITURE SYSTEM. INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER. EXTEND (2) 3/4" EMPTY CONDUITS FROM JUNCTION BOX TO ABOVE CEILING AND TERMINATE WITH INSULATING BUSHING 6" FROM WALL.
- TELE/POWER POLE FOR TELEPHONE/DATA/POWER CONNECTION TO MODULAR FURNITURE 8 WIRE SYSTEM (SEE DETAIL THIS SHEET). INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER, WIREMOLD CATALOG # 25DTP-4D W/IVORY FINISH.
- SPECIAL PURPOSE RECEPTACLE MOUNTED BELOW RAISE FLOOR.
- EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS.
- SINGLE POLE. 20 AMP. SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS
- OTHERWISE NOTED. 3-WAY, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS
- OTHERWISE NOTED. SINGLE POLE, 20 AMP, SWITCH WITH DIMMER. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH
- UNLESS OTHERWISE NOTED.
- MOTOR RATED SWITCH VACANCY SENSOR SWITCH, WATTSTOPPER, MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH
- UNLESS OTHERWISE NOTED. TWO POLE, 30 AMP SWITCH. MOUNT ADJACENT EQUIPMENT TO BE CONTROLLED.
- FACTORY MOUNTED DISCONNECT/STARTER (SEE MECHANICAL SCHEDULE)

L A분 FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING

- FUSIBLE MOTOR STARTER DISCONNECT SWITCH A = POLES, B= NEMA SIZE, C= FUSE RATING
- GROUNDING ELECTRODE & CONDUCTOR SYSTEM
- TRANSFORMER
- ELECTRICAL PANELBOARD
- TELEPHONE WOOD BACKBOARD
- **WEATHERPROOF**
- TIME CLOCK
- RELOCATED

A.F.F. ABOVE FINISH FLOOR

- EXISTING TO REMAIN
- CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.
- CEILING MOUNTED LOW VOLTAGE DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.
- DS CEILING MOUNTED DAY LIGHTING SENSON. STATE WINDOWS WITH IN ROOM. CEILING MOUNTED DAY LIGHTING SENSOR. SENSOR TO CONTROL THE DIMMING OF ALL FIXTURES

ELECTRICAL NOTES

ISSUED FOR REVIEW

KAMM CONSULTING PROJECT #: 2021-0390 PROJECT MANAGER: DUANE MILLAR

NOT FOR PRICING OR CONSTRUCTION

Florida License #58232

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Certification of Authorization #8189

JONES' PIER **CONSERVATION AREA**

HISTORIC RESIDENCE **MUSEUM**

7770 Jungle Trail Vero Beach FL 32963

Indian River County Parks

Division

Key Plan:

Issues: No.: Date: Description: A. 05/20/21 GRANT SUBMITTAL 07/23/21 COORDINATION C. 08/19/23 BID PACKAGE

Architect:



& Associates, Architects P.A.

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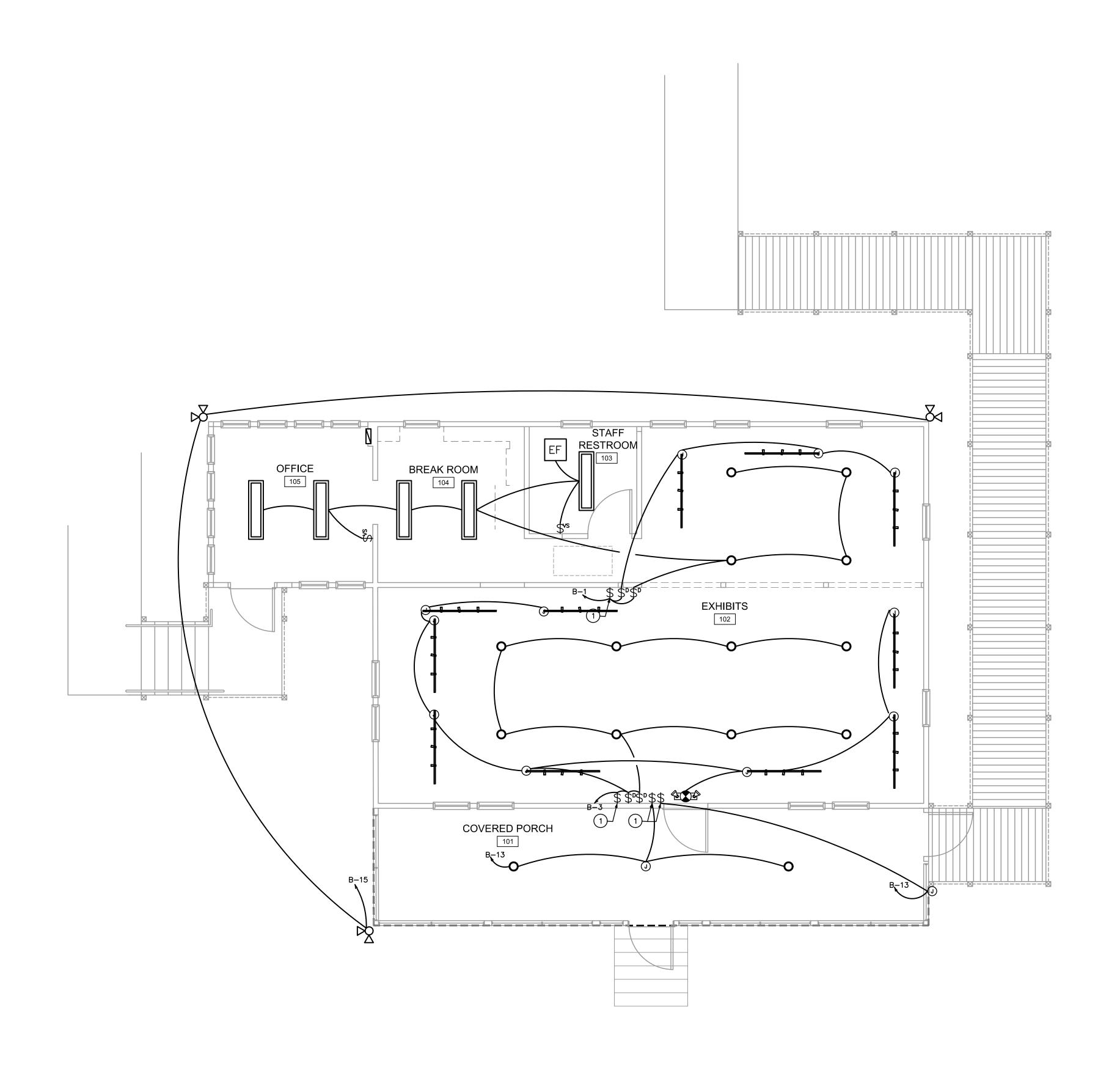
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Consultant:







Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963 for Indian River County Parks

Division

Key Plan:

Issue	s:	
No.:	Date:	Description:
A.	05/20/21	GRANT SUBMITTAL
B.	07/23/21	COORDINATION
C.	08/19/23	BID PACKAGE
Archite	DO & Associa	NADIO ates, Architects P.A. 9th Avenue, Suite 308 ero Beach, Fl. 32960 Tel.772.794.2929 Fax.772.562.8600 ense No. AA0002238 ww.donadio-arch.com

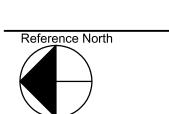
KEY NOTES

1) INTERMATIC DIGITAL TIMER SWITCH "EI600".

LIGHTING PLAN



Drawing Title



Drn:

Dwg. Fi

JLH

Chd:

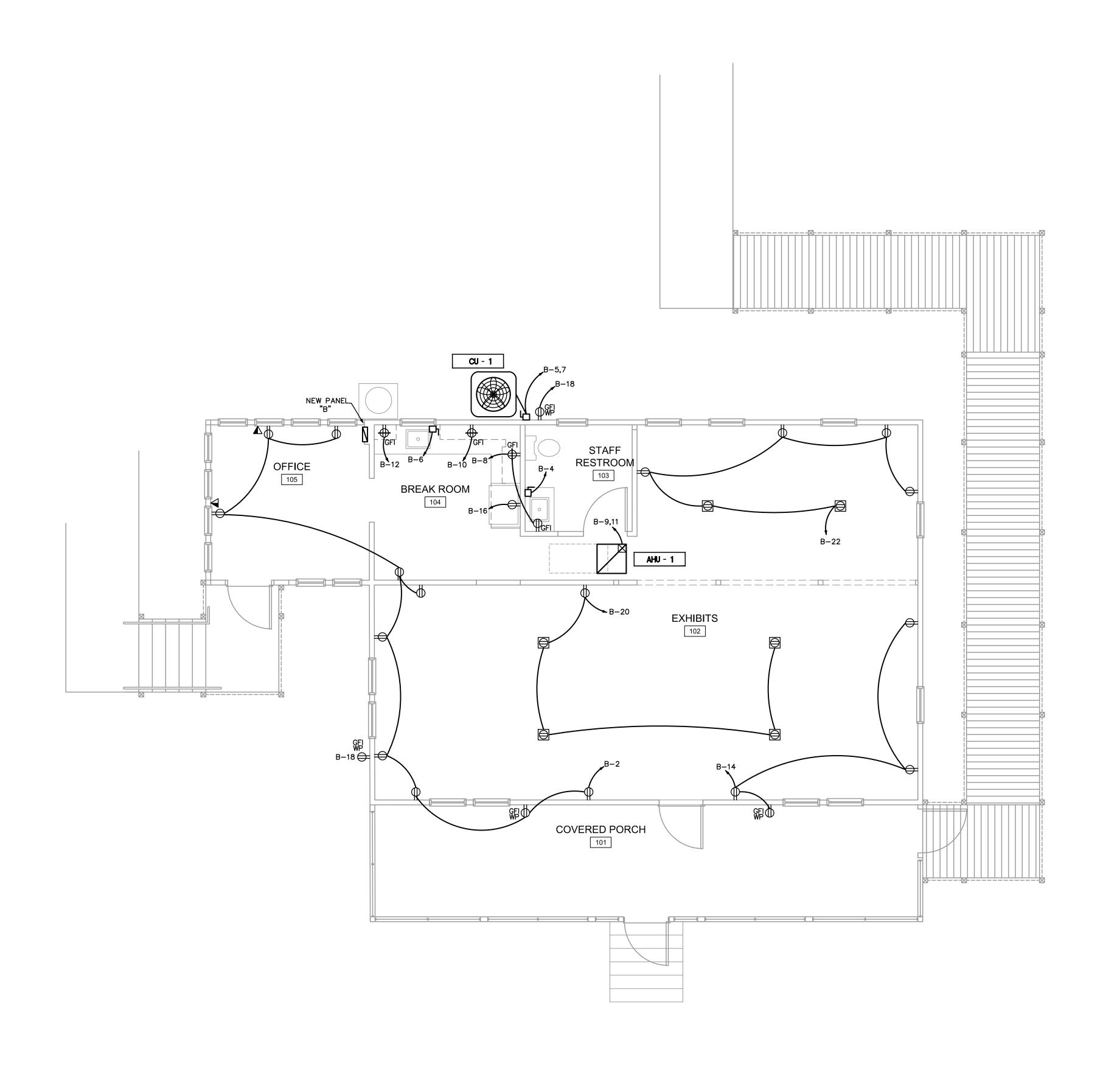
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Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963 for Indian River County Parks

Division

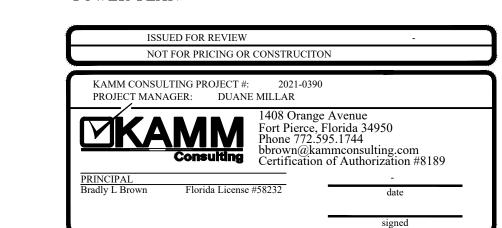
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Drawing 1



POWER PLAN



Drn: Dwg. File

JLH
Chd: XREF File

TD
Project No.: Plot File

2018-23.03
Sheet No.:

No.: 12,456

Signed: ESigned:

MECHANICAL NOTES

- . THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE FLORIDA BUILDING CODE 2020 AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS; SMACNA-85, 92, 95; ASHRAE 15-01, 34-01, 62-04; NFPA 70-02, 72-02, 90A-02, 90B-02, 91-99, 96-01; ANSI Z10.1-98, Z10.3-98, Z21.8-94, Z21.83-98.
- 2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER
- 3. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.
- 4. THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS.

COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.

- 5. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE [5] COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
- 6. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED. ALL INSTALLATIONS SHALL COMPLY WITH FMC 2020, CH. 3, GENERAL REGULATIONS. BUILDINGS LOCATED WITHIN 3,000 FT FROM THE OCEAN SHALL UTILIZE NON-FERROUS MATERIALS FOR ALL OUTDOOR EXPOSED SUPPORTS, STANDS, FASTENERS, ETC.

A. ALL AIR CONDITIONING DUCT WORK SHALL BE OF 1-1/2" (R-6) HEAVY DUTY FOIL REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON VAPOR BARRIER B. ALL FLEX DUCT SHALL BE RATED CLASS I, UL-181 LISTED WITH METALLIZED INNER AND OUTER FOIL LINERS, MIN. R-6 WITH A MAX. TOTAL LENGTH NOT TO EXCEED 15 FT. FLEXIBLE DUCTWORK ELBOW SUPPORTS AT EACH DIFFUSER, GRILLE, AND REGISTER EQUAL TO "FLEXFLOW ELBOW" AS MANUFACTURED BY "THERMAFLEX".

C. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. ALL OUTSIDE AIR DUCT SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATION R-6 MIN.

ALL METAL EXHAUST, MAKE-UP OR OTHERWISE DUCTS INSTALLED IN LOCATIONS WHERE DEWPOINT CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE EXTERNALLY INSULATED WITH R-6 MIN. THE CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTWORK, HANGERS, AUX. SUPPORT STEEL, ETC. ALL METAL DUCTS SHALL BE FABRICATED IN ACCORDANCE WITH LATEST EDITION OF S.M.A.C.N.A. SPECIAL NOTE:

SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM

ALL DUCTWORK SHALL BE SEALED TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR ITS PRESSURE CLASS SEALING METHODS.

- 9. OUTSIDE AIR INTAKES SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL NOT LARGER THAN 1/2" MESH. O/A INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10 FT. FROM ANY CHIMNEY, VENT OUTLET OR SANITARY SEWER VENT OUTLET, UNLESS SUCH VENT IS NOT LESS THAN 24 INCHES ABOVE THE OUTSIDE AIR VENT. OUTSIDE AIR INTAKE VENTS LOCATED ON ROOFS WILL BE PROPERLY MARKED WITH A UNIVERSAL MARKING "INTAKE", PERMANENTLY ATTACHED PER FMC 2020, SEC. 401.5
- 10. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
- 11. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE AS SPECIFIED OR EQUAL TO TITUS OR METALAIRE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS TO ENSURE COMPLAINCE WITH FMC 2020, PAR. 601.5 AND PAR. 603.18 FOR BALANCED AIR FLOW.
- 12. TEMPERATURE CONTROLS/THERMOSTAT:

PROVIDE BIRD SCREEN.

PROVIDE BALANCING DAMPER.

SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION ISOLATORS.

PROVIDE WEATHERHOOD DRAIN AND CORROSION PROTECTION.

- A. SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE AS RECOMMENDED BY MANUFACTURER, HONEYWELL OR EQUAL. PROVIDE TAMPER PROOF COVERS.
- 13. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. INSTALL THERMOSTAT 48" TO 54" A.F.F. PER A.D.A REQUIREMENTS WHERE APPLICABLE. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL REQUIREMENTS FOR JUNCTION BOXES. CONDUITS. CONTROL WIRING, POWER, ETC. AND DEFINE RESPONSIBILITIES AND SCOPE OF WORK FOR EACH TRADE PRIOR TO ANY PURCHASING OR INSTALLATION. WHENEVER THERE ARE MORE THAN ONE SENSOR OR THERMOSTAT, SIDE BY SIDE, THEY SHALL BE SANGED TOGETHER WITHIN THE SAME COVER PLATE WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE THIS ISSUE WITH ARCHITECT/OWNER PRIOR TO INSTALLATION AND
- SHALL BRING ANY DISCREPANCY TO THE ENGINEER'S ATTENTION. . REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER BRAZING-JOINT TYPE FITTINGS, USE BRAZING MATERIALS FOR HIGH PRESSURE PIPING PER AWS A5.8: BCuP SERIES COPPER-PHOSPHORUS ALLOY OR BAg1 SILVER ALLOY. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. SOFT COPPER TYPE "M" SHALL BE ALLOWED FOR RISER PIPING INSIDE CHASE TO LIMIT NUMBER OF JOINTS. COORDINATE WITH ENGINEER FOR PRIOR APPROVAL ALL EXPOSED INSULATION SHALL BE PROTECTED WITH UV RESISTANT PAINT OR ALUMIN. SHIELD.
- . ARMAFLEX INSULATION SHALL BE USED FOR SUCTION LINES (1/2" FOR ABOVE 40° F AND 1" FOR BELOW 40° F) PER FLORIDA ENERGY CODE TABLE 4-11 FOR PIPING INSULATION. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.

- 16. ALL BRANCH TAKE—OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE, SQUARE ELBOWS AND TEE'S SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS. PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL.
- 17. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP, REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER.
- 18. PROVIDE SMOKE DETECTORS WITH SERVICE ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. FOR SMOKE DETECTORS NOT VISIBLE, IN CONCEALED SPACES, PROVIDE REMOTE ANNUNCIATION/TEST STATION AS REQUIRED BY AUTHORITY HAVING JURISDICTION, COORDINATE PRIOR TO INSTALLATION. DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION, SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM.
- 19. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS WITH SERVICE ACCESS DOORS IN ALL DUCTS AND OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT OUTSIDE AIR INTAKES AS REQUIRED. PROVIDE RADIATION DAMPERS IN RATED CEILINGS FOR ALL CEILING OPENINGS, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY. PROVIDE LOW-LEAKAGE CLASS DAMPERS FOR ALL SITUATIONS WHERE THE AIRFLOW CFM HAS TO BE CONTROLLED. VERIFY AND REPLACE AS REQUIRED FOR EXISTING SYSTEMS.
- 20. HVAC CONTRACTOR SHALL PROVIDE A T & B REPORT PER F.B.C. 2020, CH. C408.2.2 (THE T & B REPORT SHALL BE INDEPENDENT FOR SYSTEMS OVER 15 TONS) FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHU'S AND FANS. THE TEST AND BALANCE REPORT SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMPERATURE (F) FROM SUPPLY GRILLES AND EVAPORATORS. FOR (EXISTING) SMOKE EVACUATION SYSTEMS HVAC CONTRACTOR SHALL PROVIDE A T & B REPORT PRIOR TO ANY NEW WORK, PROVING THAT THE SMOKE EVACUATION SYSTEM PERFORMS PER ORIGINAL DESIGN DOCUMENTS AND IS COMPLIANT WITH LOCAL CODE REQUIREMENTS.
- 21. RUN INSULATED FIRE RATED CONDENSATE DRAINS AS REQUIRED.
- 22. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.

NOTE: AIR HANDLING UNITS ARE NOT ALLOWED IN COMMERCIAL ATTICS.

23. MECHANICAL EQUIPMENT ON ROOF OR ELEVATED STRUCTURES SHALL COMPLY WITH FBC 2020 PAR. 306.5 IF INSTALLED HIGHER THAN 16 FEET A.F.F. MECHANICAL EQUIPMENT INSTALLED IN ATTICS SHALL MEET THE REQUIREMENTS OF FBC-ENERGY 2020 PAR. C403.2.7.6 IF THE EQUIPMENT CAN NOT BE SERVICED/REMOVED THROUGH REQUIRED OPENING. MECHANICAL EQUIPMENT SHALL BE PROTECTED WITH MECHANICAL BARRIERS IF EXPOSED TO MECH. DAMAGE. ALL EQUIPMENT SHALL BE INSTALLED ON 6" CONCRETE PAD AT GRADE LEVEL .

ALL WIND LOAD AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR ROOF MOUNTED EQUIPMENT AS REQUIRED BY FBC 2020, SEC. 1509, 1522 AND CHAPTER 16,

- SHALL BE PROVIDED BY STRUCTURAL ENGINEER/ARCHITECT. 24. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 240-480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE
- 25. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.
- 26. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT. IN ORDER TO PROVIDE A FULLY INTEGRATED MECHANICAL AND CONTROLS SYSTEMS WITH THE EXISTING ONES. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS. OR ADDITIONAL CLARIFICATION REQ'D SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO FINAL BIDDING AND WORK.
- 27. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK TO DECK PARTITIONS, AIR TRANSFER DUCTS MUST BE INSTALLED. WHEN CPVC PIPING IS USED FOR FIRE SPRINKLER SYSTEMS, THE R/A GRILLES LAYOUT SHALL BE (FIELD) COORDINATED WITH SUCH PIPING SO THAT NO PORTION OF THE GRILLES WILL BE DIRECTLY BELOW THE CPVC PIPING.
- 28. CONDENSATE DRAIN PIPING TO BE AS SPECIFIED PER PLUMBING PLANS, IF NOT SPECIFIED TO BE TYPE "L" COPPER OR PVC WHERE ALLOWED BY CODE WITH 1/2" ARMAFLEX INSULATION. PROVIDE APPROVED WATER LEVEL DETECTOR OR FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN THE AIR COND. UNIT. AS A SECONDARY DRAIN SYSTEM TO COMPLY WITH FMC 2020. SEC. 307 SUPPLY CONDENSATE PUMP WHERE NECESSARY AS IMPOSED BY FIELD CONDITIONS OR INSTALLATION CHANGES AND PIPE TO CONDENSATE DRAIN PER PLUMBING PLANS.
- 29. MANUFACTURER'S WARRANTY: CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS ÀCCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUTDOWN WILL BE DONE DURING NÓN-OPERATIONAL PERIODS OR AS AGREED WITH OWNER.
- 30. ON PROJECT SPECIFIED WITH EQUIPMENT UTILIZING HOT GAS REHEAT AND/OR DEHUMIDIFICATION: CONTRACTOR SHALL PROVIDE FACTORY STARTUP OF EQUIPMENT WITHIN THEIR BID. STARTUP REPORT DOCUMENT TO BE PROVIDED TO ENGINEER FOR REVIEW.

ELECTION DA	TA				FAN DATA	4		MOTOR DA	TA			GENERAL	IERAL DATA					
TAG	SERVICE AREA	MANUF.(*)	MODEL	CONFIG.	CFM	ESP ("WG)	SONES	HP	RPM	DRIVE	VOLTAGE	WEIGHT (LBS)	DIMENSIONS L"xW"xH"	OPENING L"xW"	CONTROL	ACCESSORIES		
EF-1	RR	GREENHECK	SP-B90	CEILING	70	.2	1.5	21.1 WATT	700	DIRECT	120/1/60	10	14X12X7	*	LIGHT INTERLOCK	*		
ACCESSO 1. PROVID	EQUAL MANUFACTURER: C RIES NOTES: E GRILL COLOR PER ARCHI F BACK DRAFT DAMPER LO	TECTURE SPECI	FICATIONS.		HARGF					a. MOTOR : AND EM	ERGENCY PO NTINUOUS-D	- DISCONNECT DWER WIRIN UTY MOTOR	G BY ELECTF	RICAL CONTE PROVIDED	OVIDED), ALL NORMAL RACTOR. WITH OVERLOAD PROTE			

FAN SCHEDULE

- c. FIELD ADJUST OPENINGS WITH STRUCTURE. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND INTEGRAL THERMAL OVERLOAD d. ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT PROTECTION. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE. EXCEED A NOISE LEVEL OF 65 dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN
 - e. COORDINATE WITH ELECTRICAL CONTRACTOR AND MANUFACTURER BEFORE BIDDING OR ORDERING ANY EQUIPMENT. CONTRACTOR TO PROVIDE NECESSARY STEPDOWN AND/OR MULTI-VOLTAGE TRANSFORMERS.
 - SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION.
 - ALL FANS ON ROOF SHALL BE PAINTED AS PER ARCHITECTURAL SPECIFICATIONS. ALL EQUIPMENT SHALL COMPLY WITH WIND LOAD REQUIREMENTS SET BY LOCAL CODES, ORDINANCES, OR AUTHORITIES. WIND LOAD RATING MAY BE REQUIRED; CONTRACTOR TO PROVIDE NOA RATING IF REQUIRED.

	MECHANICAL SHEET INDEX
SHEET#	DESCRIPTION
M0.1	MECHANICAL NOTES, LEGEND & INDEX
M2.1	MECHANICAL FLOOR PLAN
M6.1	MECHANICAL SCHEDULES

MECHANICAL LEGEND CEILING OR INLINE EXHAUST FAN SUPPLY AIR CEILING DIFFUSER RETURN AIR CEILING GRILLE STANDARD SINGLE DUCT VVT BOX (3'0" SERVICE CLEARANCE) WALL LOUVER / WALL DIFFUSER. THERMOSTAT LINEAR DIFFUSER **HUMIDISTAT** MANUAL VOLUME CONTROL DAMPER REFRIGERANT SENSOR MOTORIZED DAMPER STATIC PRESSURE SENSOR FIRE DAMPER DUCT SMOKE DETECTOR REDUCER OR INCREASER FLEX DUCT AP - ACCESS PANEL EXISTING FLEX DUCT AD - ACCESS DOOR EXISTING DUCTWORK VOLUME CONTROL DAMPER SUPPLY & OUTSIDE AIR MANUALLY OPERATED DAMPER SECTION (UP) SUPPLY & OUTSIDE AIR DIFFUSER OR GRILLE DESIGNATION SECTION (DN) RETURN/EXHAUST AIR DIFFUSER OR GRILLE DESIGNATION RETURN OR EXHAUST DUCT SECTION (UP) VARIABLE FREQ. DRIVE CONTROL PANEL RETURN OR EXHAUST DUCT SECTION (DN) SUPPLY AIR RETURN AIR ROUND UP

TAG - #

DOOR UNDER CUT

EQUIPMENT TAG

→ RTU- ROOF TOP UNIT

► EF − EXHAUST FAN

► VAV- VARIABLE VOLUME BOX

→ OARTU- OUTSIDE AIR ROOF TOP UNIT

NOT ALL SYMBOLS MAY APPLY TO THESE PLANS

SHOE TAP DAMPER

ROOFTOP UNIT

SOLENOID VALVE.

RELOCATE

FLOW MEASURING STATION

INTEGRATED PART-LOAD VALUE.

HVAC ABBREVIATION LEGEND AIR CONDITIONING MCA MINIMUM CIRCUIT AMPS (FOR WIRE SIZING) MANUALLY OPERATED DAMPER ABOVE FINISH FLOOR MOD BACK DRAFT DAMPER MAXIMUM OVERCURRENT PROTECTION DEVICE AMP CONDENSATE DRAIN NOISE CRITERIA COP COEFFICIENT OF PERFORMANCE 0/A OUTSIDE AIR DRY BULB OBD OPOSITE BLADE DAMPER DIAMETER PRESSURE DROP. EXISTING TO REMAIN EXISTING TO BE RELOCATED ENERGY EFFICIENCY RATIO R/A RETURN AIR ELECTRIC DUCT HEATER EDH RATED LOAD AMPS. EXHAUST FAN STANDARD ENERGY EFFICIENCY RATIO EXTERNAL STATIC PRESSURE ESP TSP TOTAL STATIC PRESSURE FILTER VOLUME CONTROL DAMPER FIRE DAMPER VFD VARIABLE FRECUENCY DRIVE FULL LOAD AMPS.

WET BULB

NOTE: NOT ALL SYMBOLS MAY APPLY TO THESE PLAN.

JONES' PIER **CONSERVATION AREA**

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963 Indian River County Parks

Division

Key Plan:

Issues: No.: Date: Description: GRANT SUBMITTAL 05/20/21 07/23/21 COORDINATION C. 08/19/23 BID PACKAGE

Architect:



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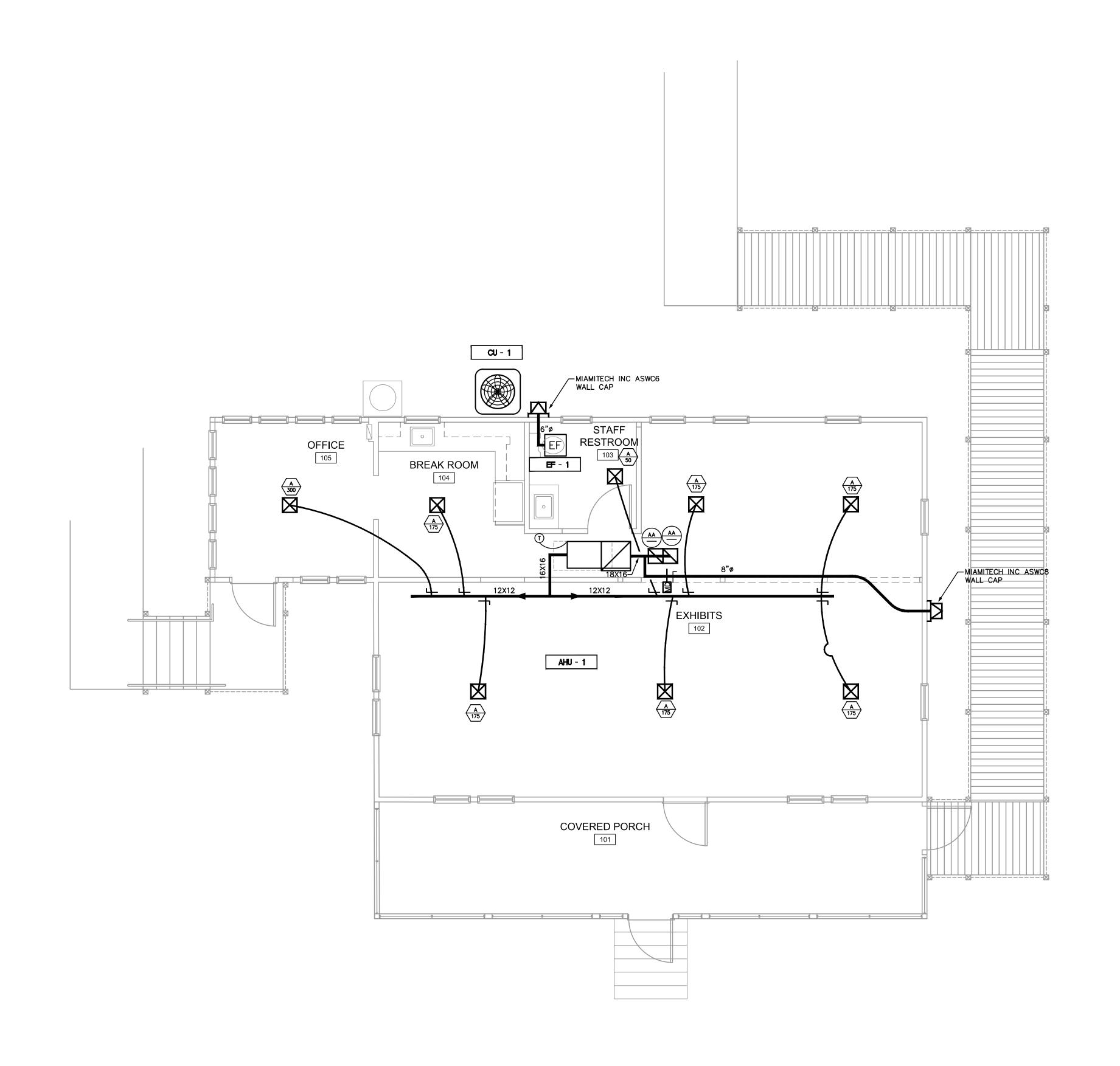
Consultant:

Drawing Title:



MECHANICAL NOTES

ISSUED FOR REVIEW NOT FOR PRICING OR CONSTRUCTION KAMM CONSULTING PROJECT #: 2021-0390 PROJECT MANAGER: DUANE MILLAR Fort Pierce, Florida 34950 Certification of Authorization #8189 Florida License #58232





Project: JONES' PIER CONSERVATION AREA

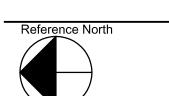
HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963 for Indian River County Parks

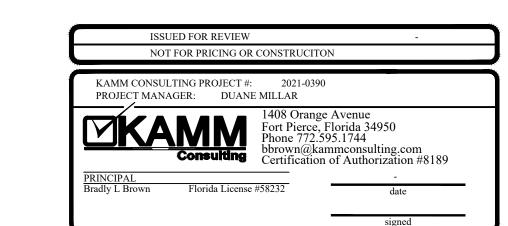
Division

Key Plan:

es.	
Date:	Description:
05/20/21	GRANT SUBMITTAL
07/23/21	COORDINATION
08/19/23	BID PACKAGE
DO & Associ	NADIO ates, Architects P.A. 1 9th Avenue, Suite 308 fero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600 cense No. AA0002238
	Date: 05/20/21 07/23/21 08/19/23 ect: DO & Associ



MECHANICAL PLAN



AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE

				CONE	DENSING	UNIT							
TONNAGE	CAP. STAGES	(S)EER/IPLV	REFRIG./LBS	LIQ./SUCT. LINES	NO. FANS	FAN FLA(EA)	NO. COMP.	COMP.RLA(EA)	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES

1	17.0	R410A/-	3/8:7/8	1	2.8	1	20.4	240/1/60	28/45	259	37X34X45	1
			AIR HA	ANDLING	UNIT							

AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P.("W.G.)	ENT. DB/WB	LEAV. DB/WB	ROWS/FPI	FAN HP/FLA	HEATER KW	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L×W×H (IN)	
AHU-1	TRANE/TAM9A0C48	47.7	37.2	1400	195	0.5	78/65	56.2/54.8	ı	0.75-5.0	5.76	240/1/60	41/45	174	21X23X61	

MANUFACTURER & MODEL TRANE/4TTR7048B

- 1. UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: CARRIER, YORK, ETC.
- 2. PROVIDE WITH ELECTRIC EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES
- 3. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
- 4. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION. 5. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
- 6. PROVIDE DISCONNECT BY ELECTRICAL CONTRACTOR FOR C.U., COORDINATE PRIOR TO PURCHASING
- 7. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 50 FT. EQUIV. LENGTH
- FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK. 8. ALL EQUIPMENT SHALL COMPLY WITH WIND LOAD REQUIREMENTS SET BY LOCAL CODES, ORDINANCES, OR AUTHORITIES. WIND LOAD RATING MAY BE REQUIRED; CONTRACTOR TO PROVIDE NOA RATING IF REQUIRED.

COORDINATION NOTE:

MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

NOTES

1-8

OUTSIDE AIR CALCULATIONS

(PER TABLE 403.3, FLORIDA BUILDING CODE 7TH EDITION (2020) MECHANICAL

						, ,				
AREA SERVED OR UNIT TAG	NET OCCUPIABLE AREA SQ.FT.	AREA OUTDOOR AIR RATE (RA) CFM/FT^2	TOTAL NO. OF PEOPLE	PEOPLE OUTDOOR AIR RATE (RP) CFM/PERSON	DEFAULT VALUES OCC. DENS. P/ 1000FT^2 FL. AR.	TOTAL NO. OF PEOPLE FROM DEFAULT VALUES	COMBINED OUTDOOR AIR RATE CFM/PERSON	TOTAL CFM O/A REQUIRED	TOTAL CFM O/A PROVIDED	NOTES
AHU-1 OFFICE	116	0.06	1	5			7+5	12	25	SEE NOTES
AHU-1 MUSEUM	956	0.12	9	7.5			115+68	183	185	SEE NOTES
TOTAL	1072.0	_	_	_	_	_	_	195.0	210.0	_

- 1. CALCULATIONS ARE BASED ON ESTIMATED MAX. OCUPPANCY RATES PER ARCHITECTURAL PLANS AND TABLE 403.3 FLORIDA BUILDING CODE 7TH EDITION (2020) MECHANICAL.
- 2. FOR OFFICE AND OTHER SIMILAR AREAS CALCULATIONS ARE BASED ON CONTINUOUS OCCUPANCY.

(TAG	SUF	PPLY	AIR C	RILL	E SC	HEDU	LE			
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
Α	TITUS/ TDCA-AA	12X12	SEE SCH.	ALUM.	NOTE #3	-	-	4-WAY	MAX. 30	SEE SCH.	1–6

(*) EQUIVALENT MANUFACTURER: METALAIRE, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES:

- PROVIDE SPIN-IN COLLAR AT TRUNK TO FLEX DUCT CONNECTION. 2. PROVIDE TYPICAL
- 3. REFER TO ARCH 4. CONTRACTOR T
- 5. FLEX DUCT SIZE 6. PROVIDE INSULA

-IN COLLAR AT TRUNK TO FLEX DUCT CONNECTION. CAL 4—WAY DIFFUSION, 2—WAY OR 3—WAY ONLY WHERE INDICATED ON PLAN	FLEX 9	CHEDULE
CHITECT PLANS FOR CEILING TYPE. TO COORDINATE FINAL SELECTION WITH ARCHITECT AND OWNER	6ø"	50-125 CFM
ZE TO BE SAME AS DIFFUSER NECK SIZE. LATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE	8ø"	130-200 CFM
	10ø"	205-330 CFM
CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER,	12ø"	335-450 CFM
PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BULDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL	14ø"	455-600 CFM
OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER	16ø"	605-700 CFM

TAG CFM		RE	TURN	AIR (GRILL	LE SC	HEDL	JLE			
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
AA	TITUS/PAR-AA	12X12	SEE SCH.	ALUM.	NOTE #1	OFF WHITE	-	-	MAX. 30	SEE SCH.	1–3

(*) EQUIVALENT MANUFACTURER: METALAIRE, PRICE, CARNES, T & B,

GENERAL NOTES:

- 1. REFER TO ARCHITECT PLANS FOR CEILING TYPE. 2. CONTRACTOR TO COORDINATE FINAL SELECTION WITH ARCHITECT AND
- 3. PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE

A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.						
NECK SIZE	CFM RANGE	NECK SIZE	CFM RANGE			
6X6	0-150 CFM	15X15	0-900 CFM			
8X8	0-250 CFM	18X18	0-1350 CFM			
10X10	0-400 CFM	22x22	0-2000 CFM			

0-600 CFM

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT

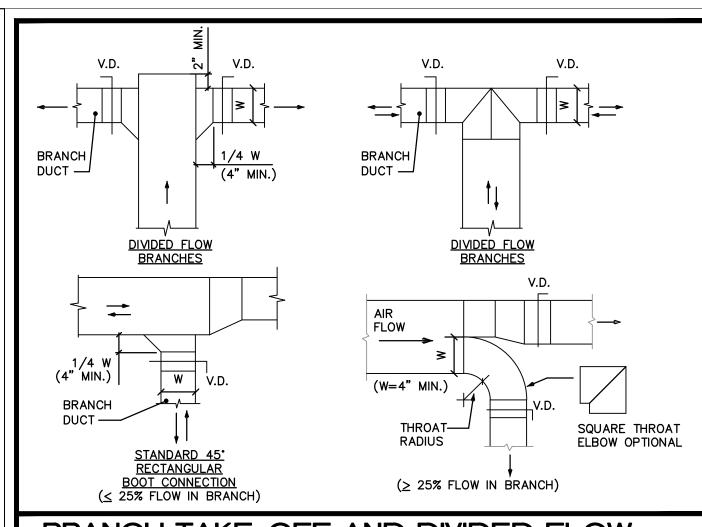
OR OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION,

IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING

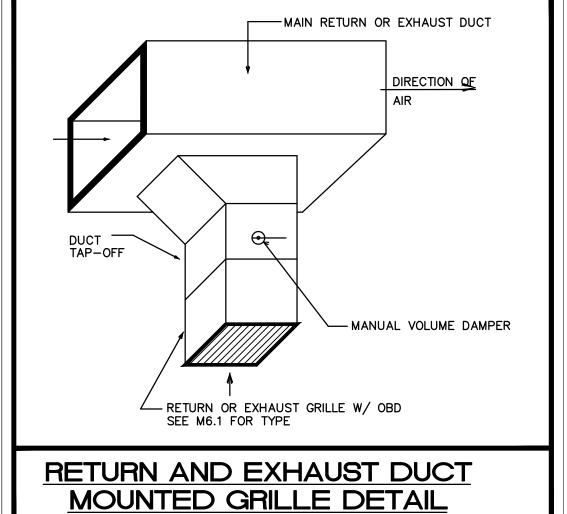
					VA	V BO	X UNI	T SC	HEDI	JLE					
	SELECTION	N DATA			PRIMARY A	IR DATA		HEATER D	ATA	GEN. DATA					
I	UNIT TAG	MANUF. & MODEL(*)	TYPE	INLET DIA.	MIN. CFM	MAX. CFM	MIN. Ps(")	KW	STEPS	VOLTAGE	LxHxW(") W/ HEAT	WEIGHT(LB) W/ HEAT	LxHxW(") W/O HEAT	WEIGHT(LB) W/O HEAT	NOTES
	VAV-1	TRANE VCEF	SGL. DUCT	10	350	1150	*	4.0	1	277/1/60	44X14X20	81	-	-	*
I	VAV-2	TRANE VCEF	SGL. DUCT	10	350	900	*	4.0	1	277/1/60	44X14X20	81	-	-	*
I	VAV-3	TRANE VCEF	SGL. DUCT	10	350	900	*	4.0	1	277/1/60	44X14X20	81	-	_	*

(*) BOX MODEL IS "VCCF" FOR COOLING ONLY AND "VCEF" FOR COOLING WITH ELECTRIC HEATER

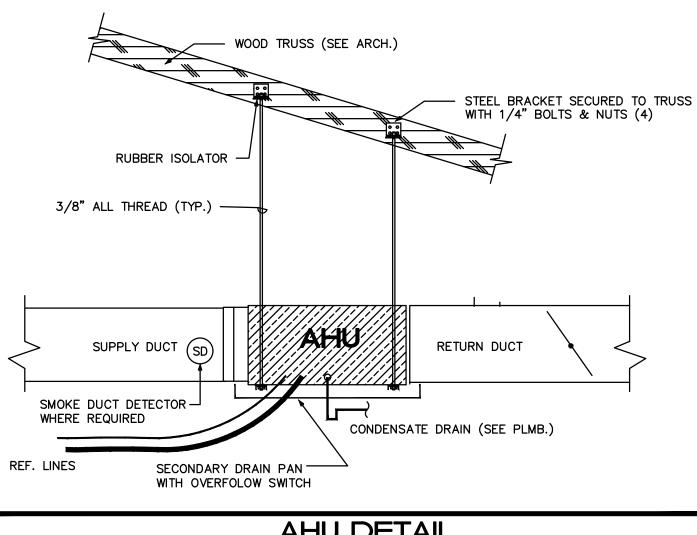
- 1. CONTROLS TO BE DDC, PROVIDE ROOM THERMOSTAT/SENSOR WITH OVERRIDE CAPABILITY. PROVIDE INTEGRATED CONTROL INTERFACE WITH EXISTING BUILDING EMS AS REQ'D. 2. POWER BY ELEC. CONTRACTOR, CONTROL WIRING BY MECH/CONTROL CONTRACTOR. CONTROL POWER TRANSFORMER BY VAV MANUFACTURER.
- FOR LONGER DUCT CONNECTION TO BOX THAN RECOMMENDED INLET RUN, MAKE THE TAP FOR BOXES AT THE MAIN DUCTWORK SIZED FOR MAIN STATIC PRESSURE LOSS. REDUCE TAP DOWN TO BOXES INLET SIZE JUST BEFORE CONNECTION AND PROVIDE MIN. LENGTH OF DUCT TO INLET AS RECOMMENDED BY MANUFACTURER FOR PROPER PRESSURE READING
- FOR BOXES WITH ELECTRIC HEATER, BOX SHALL BE FUSED BY MANUFACTURER IF REQUIRED MCA (AMPS) IS BELOW THE MIN. AVAILABLE SIZE OF COMMERCIAL BREAKER. CONTRACTOR SHALL COORDINATE PRIOR TO PURCHASING. PROVIDE ELECTRIC HEATER WITH MIN. 2 STAGES IF OVER 10 KW CAPACITY.
- 5. BOX ACTUATORS SHALL BE EITHER SPRING—RETURN TYPE TO ALLOW BOXES TO FAIL FULLY OPEN IN EMERGENCY (SMOKE EVACUATION) MODE OR COMBINATION CONTROLLER—ACTUATOR WITH INTEGRATED, PROGRAMMABLE LOGIC AND PROVIDED WITH AN EMERGENCY POWER CIRCUIT



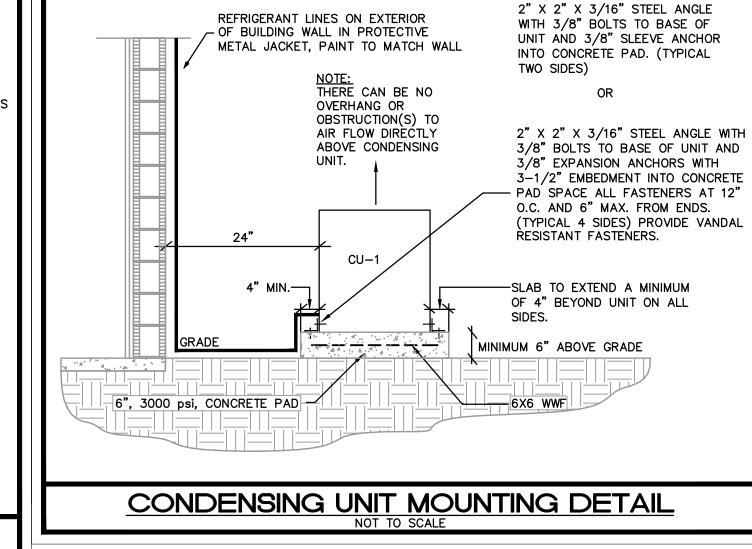
BRANCH TAKE-OFF AND DIVIDED FLOW

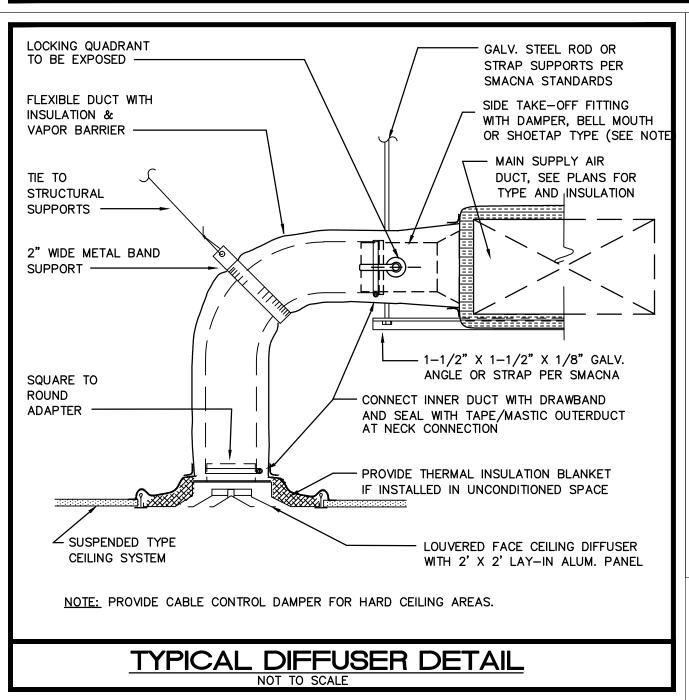


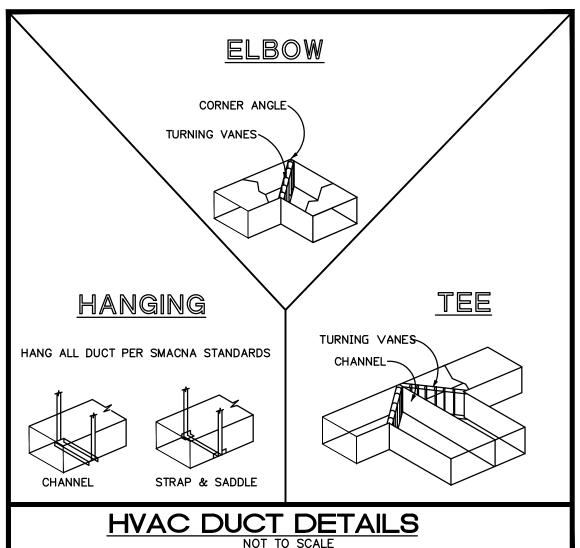
MOUNTED GRILLE DETAIL NOT TO SCALE



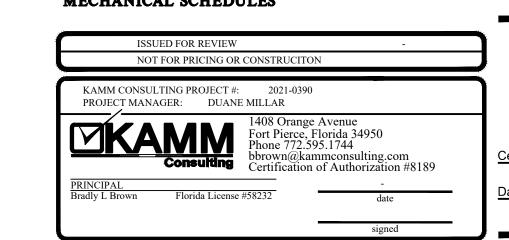
AHU DETAIL







MECHANICAL SCHEDULES



JONES' PIER **CONSERVATION AREA**

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail Vero Beach FL 32963 Indian River County Parks

Division

Key Plan:

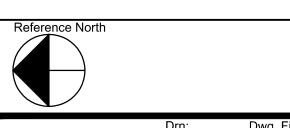
Issues: No.: Date: Description: 05/20/21 GRANT SUBMITTAL 07/23/21 COORDINATION 08/19/23 BID PACKAGE

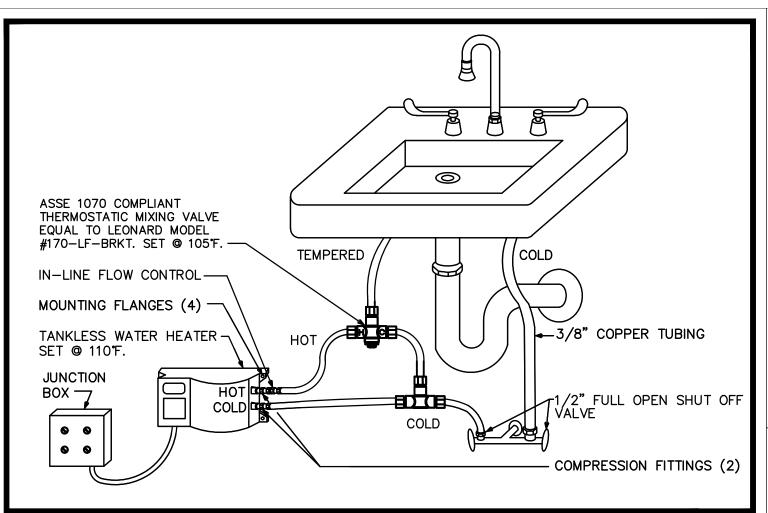
> & Associates, Architects P.A. 2001 9th Avenue, Suite 308 Vero Beach, FL 32960 Tel.772.794.2929

> > Fax.772.562.8600

License No. AA0002238 www.donadio-arch.com

Consultant:





INSTANTANEOUS WATER HEATER CONNECTIONS FOR PUBLIC LAVATORIES

CONDENSATE DR	AIN PIPE SIZING
HVAC EQUIPMENT CAPACITY	MINIMUM CONDENSATE PIPE DIAMETER
UP TO 20 TONS OF REFRIGERATION	1"
OVER 21 TONS TO 40 TONS OF REFRIGERATION	1–1/4"
OVER 41 TONS TO 60 TONS OF REFRIGERATION	1–1/2"
OVER 61 TONS TO 100 TONS OF REFRIGERATION	2"
OVER 101 TONS TO 250 TONS OF REFRIGERATION	3"
OVER 251 TONS & LARGER OF REFRIGERATION	4"

KEY NOTES

(1) TIE NEW SANITARY LINE TO EXISTING IN AREA. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.

2 TIE NEW DOMESTIC LINE TO EXISTING IN AREA. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.

PLUMBING FIXTURE SCHEDULE

PPOR'

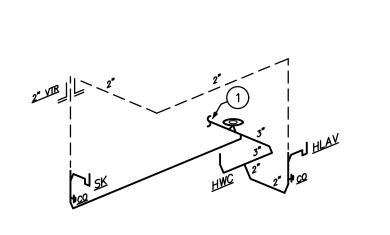
HANDICAP WATER CLOSET, AMERICAN STANDARD #215AA.004 FLOOR MOUNTED, WHITE, CENTOCO SEAT #500CC, OPEN FRONT WITH COVER. Ä.D.A EL 1.28 ELONGATED 18" HIGH OR EQUAL.

SINGLE STAINLESS STEEL SINK, 25 X 22 DAYTON MODEL #K-12522 WITH A T&S BRASS FAUCET MODEL #B-0199-01-N05 WITH A 5-11/16" SPREAD GOOSENECK WITH 4" WRIST BLADE FAUCET HANDLES.

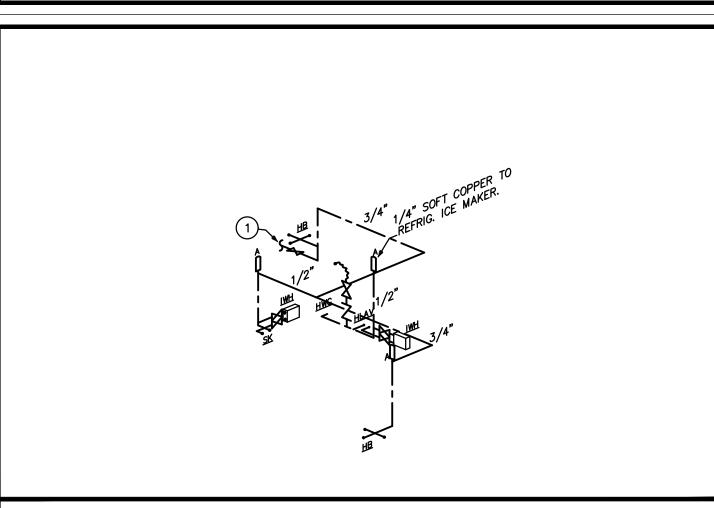
TANKLESS WATER HEATER SHALL BE CHRONOMITE MODEL # SR-20L 120V, 1

GENERAL NOTES:

- FIXTURES SHALL BE AS SHOWN OR EQUAL
- ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF FBC 2020 - ALL FIXTURE TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE,
- SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE OF THE SAME FINISH AS THE ABOVE SPECIFIED FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE. (4) - ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.



SANITARY ISOMETRIC N.T.S.



DOM. WATER ISOMETRIC

	TYPICAI	_ PLUN	IBING F	IXTU	RE C	ONNECTION SCHEDULE
TYPE	SOIL / WASTE	VENT	TRAP	CW	HW	REMARKS
3" HUB DRAIN	3"	2"	3"	-	_	PROVIDE 1/2" CW TRAP PRIMER CONNECTION.
ELECTRIC WATER COOLER	2"	2"	1¼"	½"	-	-
OUTLET BOX	-	-	_	½"	-	PROVIDE w/ INTEGRAL WATER HAMMER ARRESTOR.
SINK	2"	2"	1½"	½"	½"	1.0 GPM AT 60 PSI MAXIMUM.
LAVATORY (PUBLIC)	2"	2"	1¼"	½"	½"	0.5 GPM AT 60 PSI MAXIMUM. (0.25 GALLON METERING CYCLE)
REFRIGERATOR	-	-	_	½"	_	PROVIDE WITH BACKFLOW PREVENTER WATTS MODEL #SD-2
WATER CLOSET (FLUSH TANK)	3" OR 4"	2"	INTEGRAL	½"	-	1.28 GALLONS PER FLUSHING CYCLE MAXIMUM.

NOTE: PLUMBING FIXTURE CONNECTION SCHEDULE IS SHOWN FOR CONVENIENCE ONLY. PLUMBING CONTRACTOR TO CONFIRM FINAL PLUMBING FIXTURE CONNECTION SIZES WITH

PLUMBING FIXTURE MANUFACTURER'S REQUIREMENTS. ALL FIXTURES SHALL COMPLY WITH REQUIREMENTS OF LOCAL WATER-USE EFFICIENCY ORDINANCES

PLUMBING NOTES

- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SCOPE OF WORK. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020) - PLUMBING, APPLICABLE LOCAL CODES, RULES, AND ORDINANCES.
- 2. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
- 3. ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY.
- . ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY-OPERATIONAL. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS. PLUMBING CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
- CONTRACTOR SHALL SUBMIT TO ARCHITECT/ENGINEER, FOR REVIEW & APPROVAL, FIVE (5) SETS OF MANUFACTURER'S CUT SHEETS FOR EACH FIXTURE, PIPING/FITTING MATERIAL AND EQUIPMENT ITEM WITH ASSOCIATED CONTROLS, THAT ARE INCLUDED IN THE CONTRACT.
- DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING,
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ARCHITECT/ENGINEER PRIOR TO
- 10. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- II. WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER. ALTERNATE PIPING & FITTING MATERIALS MAY BE USED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7TH EDITION (2020) - PLUMBING, TABLES 605.3, 605.4 & 605.5, WHEN APPROVED BY ENGINEER OF RECORD AND LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE ALTERNATE FOR CPVC PIPING & FITTINGS EQUAL TO LUBRIZOL CORZAN OR FLOW-GUARD GOLD. PROVIDE ALTERNATE FOR PEX TYPE 'A' PIPING & FITTINGS EQUAL TO UPONOR. ALTERNATES ARE PERTINENT FOR WATER SERVICES KNOWN OR DETERMINED TO HAVE ACIDIC CHARACTERISTICS OR OTHER PARTICULAR CIRCUMSTANCES AS DEEMED APPROPRIATE BY DIRECTIVE FROM THE OWNER. CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PIPING INSTALLATION AND SHALL SUBMIT TEST RESULTS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. DISINFECTION OF POTABLE WATER SYSTEM SHALL COMPLY WITH FLORIDA BUILDING CODE 7TH EDITION (2020) -PLUMBING, SECTION 610. ALL WATER PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
- 12. SOIL, WASTE, VENT, AND RAINWATER (DWV) PIPING & FITTINGS SHALL BE CAST IRON OR PVC. WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUMS. PVC PIPING SHALL BE SOLID-CORE ONLY; FOAM-CORE PIPING SHALL NOT BE ACCEPTED. CAST IRON PIPING & FITTINGS SHALL BEAR THE CISPI-301 MARK. ALL DWV PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
- 13. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE ANGLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS (WHERE REQUIRED). COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- 14. PROVIDE APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED & LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS & PDI-WH201.
- 15. PROVIDE DIELECTRIC COUPLINGS OR FLANGES BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.
- 16. ISOLATE COPPER PIPING FROM METALLIC HANGERS OR SUPPORTS WITH ISOLATOR PADS OR
- NON-CONDUCTIVE MATERIAL.
- 17. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE. SMOKE AND WATER PENETRATION BY FILLING ANNULAR SPACE BETWEEN PIPING AND SLEEVES WITH INTUMESCENT CAULK, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS, AS PART OF THE PLUMBING CONTRACTOR'S WORK.
- 18. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE
- 19. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS SHALL MAINTAIN THE SAME RATING AND SHALL MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
- 20. PROVIDE COMBINATION CLEANOUT PLUG AND COVER PLATE OR ACCESS PANEL FOR ALL WALL CLEANOUTS. FINISH TO MATCH NEARBY FIXTURE TRIM.
- 21. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN MECHANICAL ROOMS NOR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
- 22. NO WATER, SANITARY OR DRAINAGE PIPING SHALL BE INSTALLED IN ELECTRICAL OR ELEVATOR
- 23. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE FURNISHED FOR OWNER/OPERATOR.
- 24. CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET PER FLORIDA BUILDING CODE 7TH EDITION (2020) - ENERGY CONSERVATION, TABLE C403.2.8. PVC WITHOUT INSULATION IS ACCEPTABLE FOR RISERS AND BELOW GRADE PIPING. WHEN USED IN A RETURN AIR PLENUM, PVC PIPING WITH INSULATION IS ACCEPTABLE IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. CONDENSATE PIPING SHALL NOT DRAIN ONTO THE ROOFING SYSTEM NOR ANY OF ITS COMPONENTS. CONDENSATE PIPING ARRANGEMENT IS EXEMPT FROM MINIMUM EQUIPMENT CLEARANCE REQUIREMENTS PER FLORIDA BUILDING CODE 7TH EDITION (2020), SECTION 1522.3.5. ALL HORIZONTAL RAINWATER PIPING RUN ABOVE FINISHED FLOOR THAT RECEIVES CONDENSATE DISCHARGE SHALL BE INSULATED WITH ARMAFLEX AND A VAPOR-BARRIER
- 25. HOT WATER PIPING INSULATION SHALL BE PROVIDED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7TH EDITION (2020) - PLUMBING, TABLE 607.5 & FLORIDA BUILDING CODE 7TH EDITION (2020) -ENERGY CONSERVATION, TABLE C403.2.8. CONTRACTOR SHALL USE ARMAFLEX OR EQUAL WHERE APPLICABLE. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET, PER FLORIDA BUILDING CODE 7TH EDITION (2020) - ENERGY CONSERVATION, TABLE C403.2.8.
- 26. AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
 27. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL
- 28. STUDOR MINI/MAXI AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTABLE BY THE PLUMBING OFFICIAL AND LOCAL CODES. INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
- 29. ALL HORIZONTAL RAINWATER PIPING THE RECEIVES CONDENSATE DISCHARGE FROM AIR CONDITIONING EQUIPMENT SHALL BE INSULATED WITH 1" THK. ARMAFLEX.
- 30. PLUMBING PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, FIRE SPRINKLER, STRUCTURAL AND CIVIL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. PIPING MODIFICATIONS SUCH AS OFFSETS, BENDS, TRANSITIONS, AND SIZES SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN PIPE SIZES AND ROUTING SHALL BE REQUIRED BY THE CONTRACTOR TO AVOID CONFLICTS AND TO ADAPT TO EXISTING FIELD CONDITIONS PROVIDED THAT INSTALLATION MEETS ALL APPLICABLE CODES.
- 31. SUPPLY TRAP PRIMER FOR ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, ETC. SHOWN ON PLANS. 32. CONTRACTOR TO FIELD VERIFY ALL SUPPLY PRESSURE REQUIREMENTS AND LIMITATIONS. PROVIDE
- PRESSURE REDUCING VALVE IF REQUIRED. 33. ANY REFERENCE OR APPLICATION OF DENTAL COMPRESSED AIR AS NOTED ON THIS PLAN IS NOT USED OR INTENDED FOR LIFE—SUPPORT PURPOSES SUCH AS RESPIRATORS, IPPB MACHINES, ANALGESIA, ANESTHESIA, ETC. THE ONLY USE IS AS INCIDENTAL AIR DISCHARGE INTO THE ORAL CAVITY AND NOT A PRIMARY OR SECONDARY SOURCE OF AIR TO SUSTAIN LIFE.

PLUMBING SHEET INDEX
DESCRIPTION
PLUMBING NOTES, LEGENDS, AND DETAILS
SANITARY PLAN
DOMESTIC WATER PLAN

PLUMBING LEGEND

SANITARY SEWER PIPING

├ -- - | HOT WATER PIPING (110*)

5— - - - **5** HOT WATER PIPING (140°)

S—CD—S CONDENSATE PIPING

SD — STORM DRAIN PIPING

S GAS PIPING

CA — COMPRESSED AIR PIPING

PIPE RISE UP

P-TRAP

5 → **OMESTIC COLD WATER PIPING**

├ --- HOT WATER RECIRCULATING PIPING

5—T&P → TEMPERATURE AND PRESSURE RELIEF

PIPE DOWN OR DROP

CAPPED END OF PIPE

POINT OF CONNECTION

--- VENT PIPING

CLEAN OUT

COTC CLEAN OUT TO GRADE

DOMESTIC COLD WATER

DOMESTIC HOT WATER

VENT THRU ROOF

GATE VALVE

GLOBE VALVE

CHECK VALVE

GAS COCK

FLOOR DRAIN

GAS SOLENOID VALVE

DOMESTIC HOT WATER RECIRCULATING

WATER HAMMER ARRESTER (PDI No.)

FLOOR SINK

S.O.V. SHUT-OFF VALVE

CONSERVATION AREA HISTORIC RESIDENCE **MUSEUM**

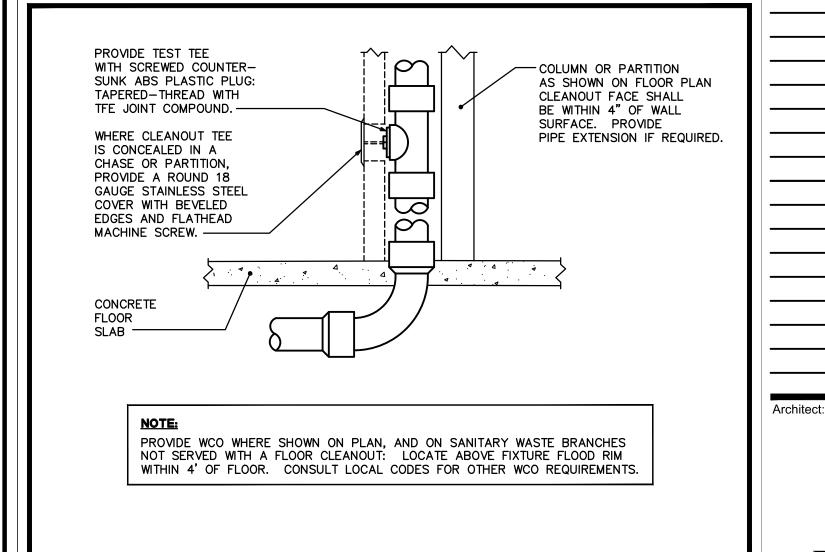
7770 Jungle Trail Vero Beach FL 32963

JONES' PIER

Indian River County Parks Division

Key Plan:

ssue	es:	
lo.:	Date:	Description:
١.	05/20/21	GRANT SUBMITTAL
3.	07/23/21	COORDINATION
<u>).</u>	08/19/23	BID PACKAGE



WALL CLEANOUT DETAIL

P.D.I. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION
Α	SIOUX CHIEF 652-A	1–11	1/2"
В	SIOUX CHIEF 653-B	12-32	3/4"
С	SIOUX CHIEF 654-C	33-60	1"

SIZE (inches)	MINIMUM SLOPE (inch per foot)		
2-1/2 or less	1/4		
3 to 6	1/8		
8 or larger	1/16		



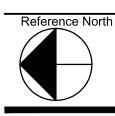
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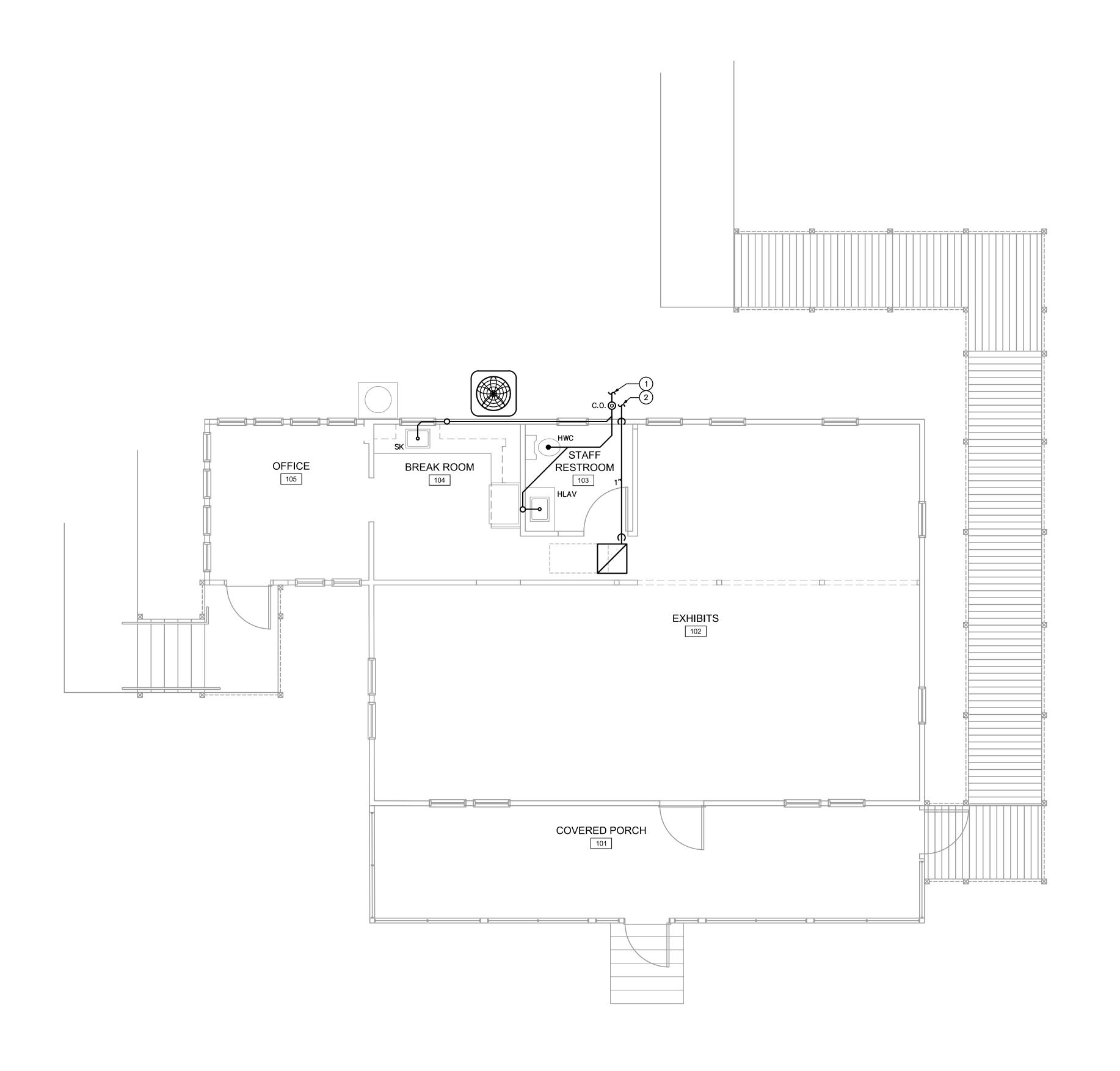
www.donadio-arch.com

Consultant:

PLUMBING NOTES

ISSUED FOR REVIEW NOT FOR PRICING OR CONSTRUCTION KAMM CONSULTING PROJECT #: 2021-0390 PROJECT MANAGER: DUANE MILLAR Fort Pierce, Florida 34950 Certification of Authorization #8189







Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail
Vero Beach FL 32963
for
Indian River County Parks

Division

Key Plan:

Issues:

No.: Date: Description:

A. 05/20/21 GRANT SUBMITTAL

B. 07/23/21 COORDINATION

C. 08/19/23 BID PACKAGE

Architect:

DONADIO

& Associates, Architects P.A.

2001 9th Avenue, Suite 308
Vero Beach, Ft. 32980
Vero Beach, Ft. 32980
License No. AA000238
Woww.donadio-arch.com

KEY NOTES

TIE NEW SANITARY LINE TO EXISTING IN AREA. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.

2 CONDENSATE LINE TO TERMINATE 6" ABOVE GRADE, IN A GREEN AREA.

SANITARY PLAN

ISSUED FOR REVIEW

NOT FOR PRICING OR CONSTRUCITON

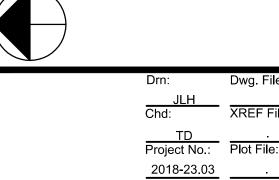
KAMM CONSULTING PROJECT #: 2021-0390
PROJECT MANAGER: DUANE MILLAR

1408 Orange Avenue
Fort Pierce, Florida 34950
Phone 772.595.1744
bbrown@kammconsulting.com
Certification of Authorization #8189

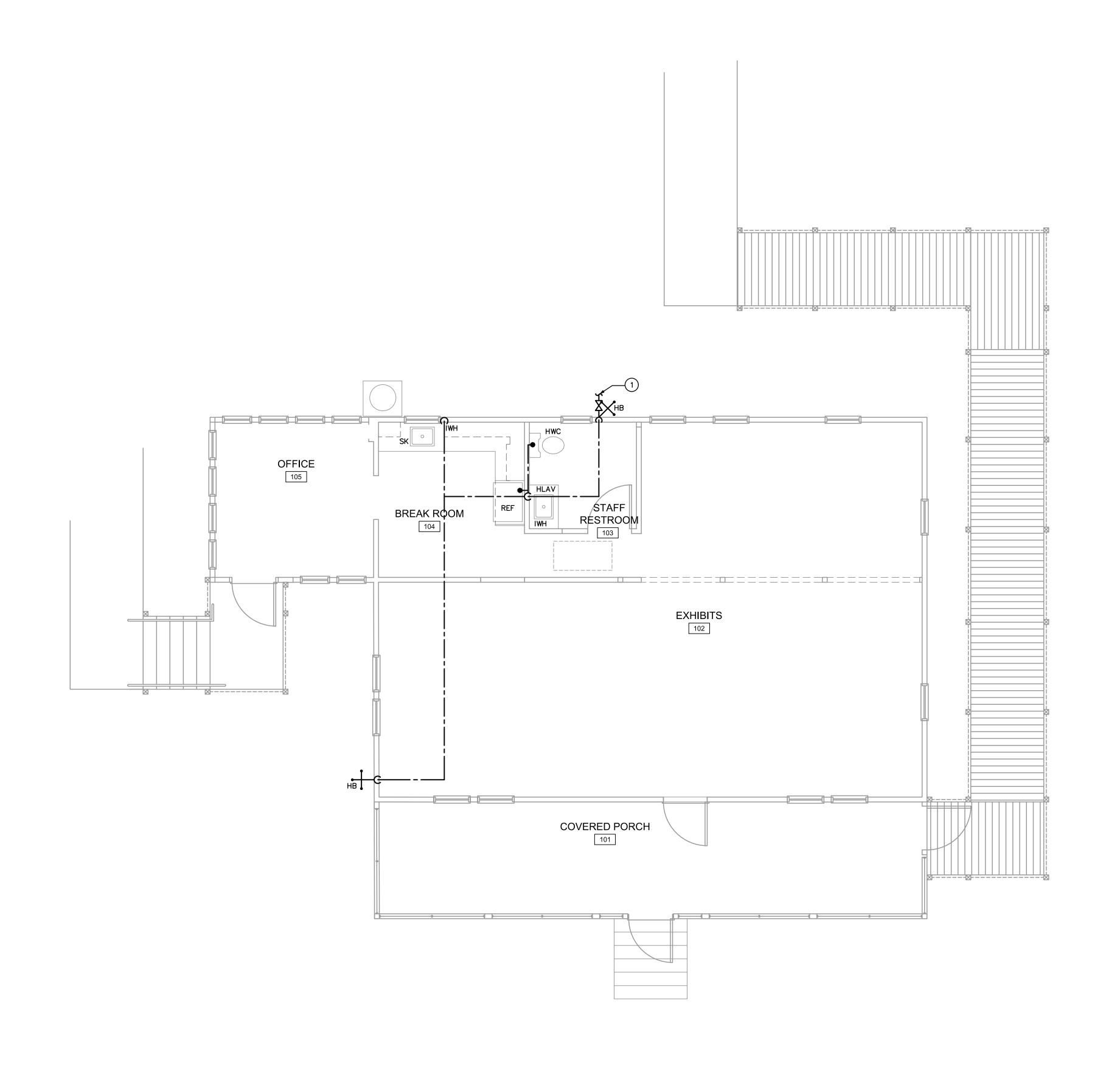
PRINCIPAL
Bradly L Brown Florida License #58232 date

Drawing Title:

Consultant:



12,456 ed: **P**



DOMESTIC WATER PLAN NORTH

Project: JONES' PIER
CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM

7770 Jungle Trail
Vero Beach FL 32963
for
Indian River County Parks

Division

Key Plan:

Issue	es:	
No.:	Date:	Description:
Α.	05/20/21	GRANT SUBMITTAL
B.	07/23/21	COORDINATION
C.	08/19/23	BID PACKAGE
Archite	∍ot: _ _ _	
	$\mathbf{D} \mathbf{O}$	NADIO
	& Associ	NADIO ates, Architects P.A. 1 9th Avenue, Suite 308
	V	ero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600 Jense No. AA0002238

www.donadio-arch.com

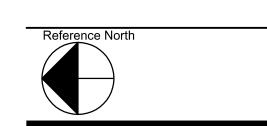
KEY NOTES

TIE NEW SANITARY LINE TO EXISTING IN AREA.
CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.

Consultant:

DOMESTIC WATER PLAN







DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

BOARD AND CODE ADMINISTRATION DIVISION

11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

PRODUCT CONTROL SECTION

www.miamidade.gov/economy

MIAMI-DADE COUNTY

NOTICE OF ACCEPTANCE (NOA)

WinDoor, Inc. 7500 Amsterdam Drive Orlando, FL 32832

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "360" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **SH360LM-NOA** (former **18-90D**), titled Series "360" Alum Single Hung WDW. (L.M.I./S.M.I.), sheets 1 through 14 of 14, dated 02/10/20, prepared by manufacturer, signed and sealed by Lynn Miller, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews # 18-1001.19 PLA consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



NOA No. 20-0213.05 Expiration Date: May 05, 2025 Approval Date: March 05, 2020

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA(s)

A. DRAWINGS

- 1. Manufacturer's die drawings and sections (See NOA #17-1018.06)
- 2. Drawing No. **18-90D**, titled Series "360" Alum Single Hung Wdw. (L.M.I./S.M.I.), sheets 1, 1A, 2, 2A, 3, 3A, 4, 4A and 5 through 10 of 10, dated 01/28/05, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under NOA #17-1018.06)

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a series 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WA, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E. (Submitted under NOA No. 15-0512.07)

- 2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a series 7400 PVC project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WB, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E. (Submitted under NOA No. 15-0512.07)

- 3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a series 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WC, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E. (Submitted under NOA No. 15-0512.07).

- 4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Small Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 7) Forced Entry Test, Type "A-A" vertical sliding window, Grade 10, per FBC 2411 3.2.1, TAS 202-94, per ASTM F 588-04, AAMA 1302.5-04 and CAWM 301-04.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0213.05
Expiration Date: May 05, 2025

Expiration Date: May 05, 2025 Approval Date: March 05, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

- 4. along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-0080-0402-08, specimens 1, 2, 3 and 4, dated 04/03/08 to 07/22/08, signed and sealed by Vinu J. Abraham, P.E. (Submitted under NOA No. 08-1208.06)
- 5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Small Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, Type "A-A" vertical sliding window, Grade 10, per FBC 2411 3.2.1, TAS 202-94, per ASTM F 588-04, AAMA 1302.5-04 and CAWM 301-04

along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Hurricane Test Laboratory, LLC, Test Report No.

HTL-0080-0323-04, specimens 1, 2, 3, 4, 5, 6, 7 and 9, dated 03/29/04 to 04/02/04, signed and sealed by Vinu J. Abraham, P.E. (Submitted under NOA No. 05-0215.02)

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC** 6th **Edition (2017)**, dated 08/30/17 and revised on 12/12/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Glazing complies with ASTM E1300-09.

D. QUALITY ASSURANCE

- 1. Miami-Dade Department of Regulatory and Economic Resources (RER).
- E. MATERIAL CERTIFICATIONS (See NOA #17-1018.06)

F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC 5th Edition (2014), with FBC 6th Edition (2017) and of no financial interest, dated August 30, 2017, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Private labeling agreement between WinDoor, Inc. and CGI Windows and Doors, Inc. document in conformance of RER guideline dated 09/12/2018

G. OTHERS

1. Notice of Acceptance No. 17-1018.06, issued to CGI Windows & Doors for their Series "360" Aluminum Single Hung Window – L.M.I., expiring on 05/05/20.

Ishaq I. Chanda, P.E.

Product Control Unit Supervisor NOA No. 20-0213.05

Expiration Date: May 05, 2025 Approval Date: March 05, 2020

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Drawing No. **SH360LM-NOA** (former **18-90D**), titled Series "360" Alum Single Hung WDW. (L.M.I./S.M.I.), sheets 1 through 14 of 14, dated 02/10/20, prepared by manufacturer, signed and sealed by Lynn Miller, P.E.
- B. TESTS (Submitted under NOA #17-1018.06)
 - 1. None.
- C. CALCULATIONS (Submitted under NOA # 17-1018.06)
 - 1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers", expiring on 07/04/23.
- 2. Notice of Acceptance No. 18-0301.06 issued to Eastman Chemical Company (MA) for their "Saflex CP Saflex and Saflex HP Composite Glass Interlayers with PET Core", expiring on 12/11/23.
- 3. Notice of Acceptance No. 17-0712.05 issued to Eastman Chemical Company (MA) for their "Saflex HP Clear or Color Glass Interlayers", expiring on 05/21/21.

F. STATEMENTS

- 1. Statement letter of conformance with **FBC** 6th **Edition** (2017) and of no financial interest, dated February 10, 2020, issued by WinDoor Inc., signed and sealed by Lynn Miller, P.E.
- 2. Statement letter dated 02/10/20 of Successor Professional Engineer adopting as his own the work of another Engineer per FLA chapter 61G15-27.001 and taking full responsibility, signed and sealed by Lynn Miller, P.E.

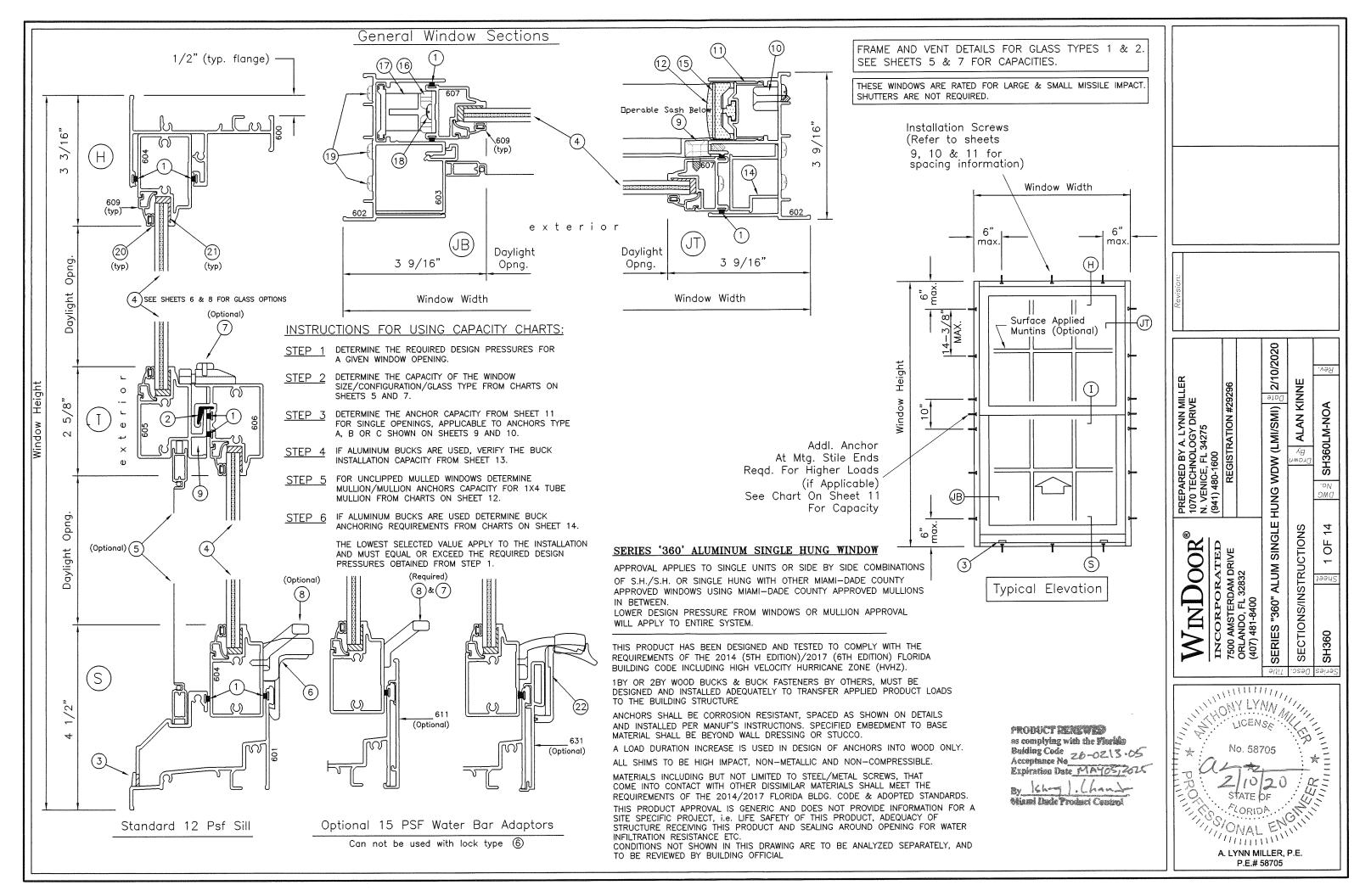
G. OTHERS

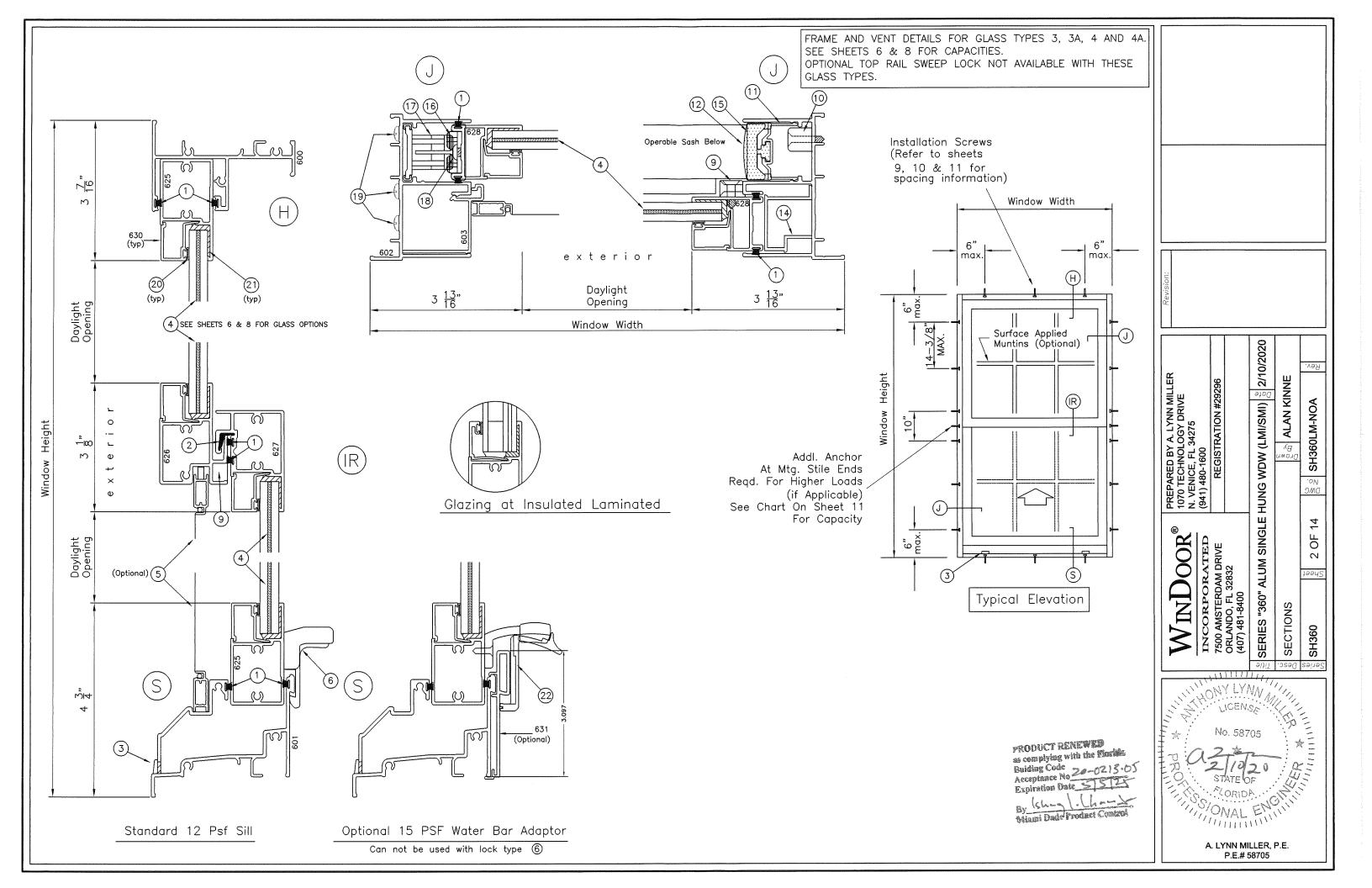
- 1. This NOA renews # 18-1001.19 PLA, expiring 05/05/25.
- 2. Private Labeling Agreement document dated 09/05/18 between CGI and WinDoor in conformance to Product Control guidelines, both signed by Dean M. Ruark, P.E. (Submitted under NOA # 18-1001.19)

Ishaq I. Chanda, P.E.

Product Control Unit Supervisor NOA No. 20-0213.05

Expiration Date: May 05, 2025 Approval Date: March 05, 2020



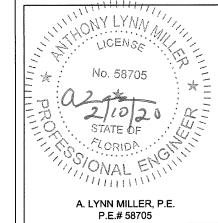


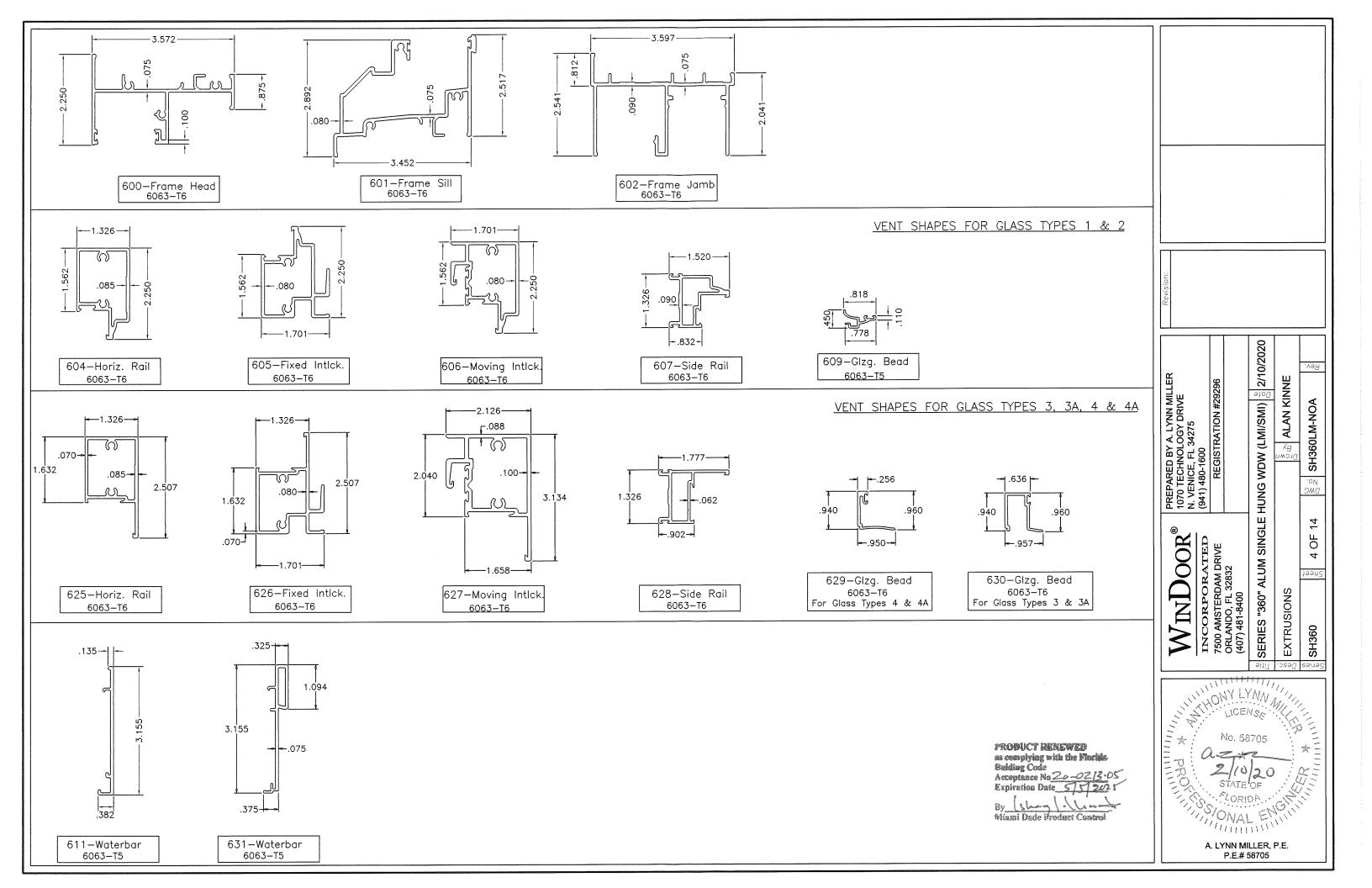
Bill of Materials

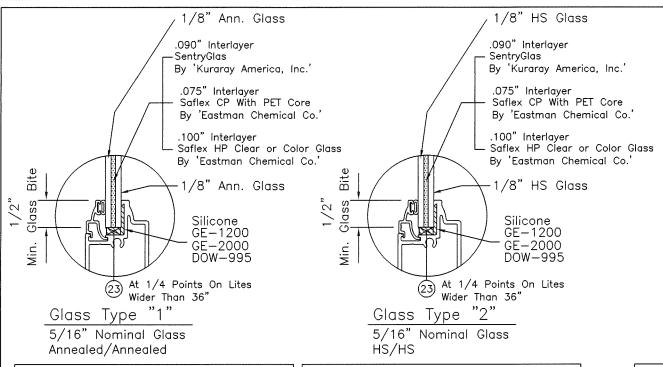
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER	REMARKS
1	W23201NG	AS REQD.	WOOL PILE WITH CENTER SOFT FIN (GRAY)	PILE	ULTRAFAB/SCHLEGEL	
2	CGI-612P	AS REQD.	PLASTIC BUMPER GUIDE	PVC	PROTOTYPE PLASTIC EXTRUSIONS	CONTINUOUS AT INTERLOCK
3	#146-4	2	WEEP HOLE COVER	NYLON	BUILDERS PLASTIC COMPANY	
4	N/A	AS REQD.	GLAZING	GLASS	VARIES	
5	N/A	1	COMPLETE SCREEN	ALUM/MESH		
6	CGI-615C & 616C	1 OR 2	COMBINATION EGRESS LOCK AND LIFT/PULL ATTACHED W/(2) #8 X 5/8" FH SMS	ZINC	CUSTOM CASTING	1 @ WDWS. 28" WIDE & SMALLER 2 @ WDWS. OVER 28" WIDE
7	A30700 & C30705	1 OR 2	OPTIONAL SWEEP LOCK & KEEPER (replaces item 6) ATTACHED W/(4) #6 X 5/8" FH SMS	ZINC	TRUTH HARDWARE OR EQUIV.	1 @ WDWS. 28" WIDE & SMALLER 2 @ WDWS. OVER 28" WIDE
8	18-11-XX-100	1 OR 2	LIFT/PULL	ZINC	TRUTH HARDWARE OF EQUIV.	1 @ WDWS. 28" WIDE & SMALLER 2 @ WDWS. OVER 28" WIDE
9	CGI-614C	2	TIE DOWN BLOCK	ZINC	CUSTOM CASTING	
10	VARIES	2	BALANCES (B&T OR SPIRAL)	VARIES	VARIES	BOTH BALANCES CAN BE USED
11	CGI-617P	2	BALANCE COVER	PVC	PROTOTYPE PLASTIC EXTRUSIONS	LOCATED AT TOP HALF OF EACH JAMB
12	CGI-618P	2	VENT STOP	PVC	PROTOTYPE PLASTIC EXTRUSIONS	LOCATED AT TOP OF JAMBS
14	CGI-613P	2	FIXED VENT SHIM	PVC	PROTOTYPE PLASTIC EXTRUSIONS	LOCATED AT TOP OF FIXED VENT
15	CGI-619P	2	TOP GUIDE AT OPERABLE VENT	NYLON	CUSTOM CASTING	
16	CGI-622N	2	BOTTOM GUIDE/CLIP AT OPERABLE VENT	NYLON	CUSTOM CASTING	
17	CGI-620C & 621N	2	CARRIER SYSTEM	ZINC	CUSTOM CASTING	OPTIONAL - BALANCE ATTACHES TO IT
18	N/A	16	VENT ASSEMBLY SCREWS	S/S	VARIES	#10 X 1 1/4" PH SMS (2 PER CORNER)
19	N/A	12	FRAME ASSEMBLY SCREWS	S/S	VARIES	#10 X 1 1/4" PH SMS (2 PER CORNER)
20	CGI-382V	AS REQD.	VINYL BULB	PVC	PROTOTYPE PLASTIC EXTRUSIONS	
21	VARIES	AS REQD.	STUCTURAL SILICONE	SILICONE	3 SILICONES	GE-1200, GE-2000, & DOW 995
22	CGI-632	1 OR 2	COMBINATION EGRESS WB LOCK & LIFT/PULL ATTACHED W/(2) #8 X 5/8" FH SMS	ZINC	CUSTOM CASTING (FOR USE WITH WATERBAR)	1 @ WDWS. 28" WIDE & SMALLER 2 @ WDWS. OVER 28" WIDE
23	_	2/ LITE	SETTING BLOCKS	EPDM	_	DUROMETER 85±5 SHORE A

PRODUCT RENEWED as complying with the Florida
Building Code
Acceptance No. Zo.—v.213-05
Expiration Date 577725
By 156-2 Lithen X
Miami Dade Product Control

| MINDOOR | 1070 TECHNOLOGY DRIVE | 1070 TECHNOLOGY DR







Supplemental Test Results for: Air Infiltration — Water Leakage Resistance — Forced Entry

Test Type and Method	Results
Air Infiltration Test (ASTM-E283) © 1.57 psf pressure differential © 6.24 psf pressure differential	PASSED (.044 C.F. / Min / Sq Ft) PASSED (.076 C.F. / Min / Sq Ft)
Water Leakage Test (ASTM-E331) without waterbar adaptor with waterbar adaptor	No leakage allowed PASSED @ 12.0 PSF PASSED @ 15.0 PSF
Forced Entry Resistance test (ASTM F588 & Grade 10)	PASSED

,									
	EQUAL LITES WINDOWS								
DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS. GLASS TYPE '1' GLASS TYPE '2'									
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)				
24"		100.0	210.0	100.0	210.0				
30"		100.0	210.0	100.0	210.0				
32"	"	100.0	210.0	100.0	210.0				
36"	48"	100.0	180.0	100.0	210.0				
42"		100.0	144.0	100.0	210.0				
48"		100.0	120.0	100.0	200.0				
54"		100.0	102.9	100.0	171.4				
24"		100.0	210.0	100.0	210.0				
30"		100.0	199.7	100.0	210.0				
32"	"	100.0	190.3	100.0	210.0				
36"	60"	100.0	164.3	100.0	210.0				
42"		100.0	128.0	100.0	210.0				
48"		100.0	104.7	100.0	120.0				
54"		88.6	88.6	100.0	120.0				
24"		100.0	201.1	100.0	210.0				
30"		100.0	162.1	100.0	210.0				
32"		100.0	167.6	100.0	210.0				
36"	72"	100.0	150.7	100.0	210.0				
42"		100.0	120.0	100.0	120.0				
48"		96.0	96.0	100.0	120.0				
54"		80.0	80.0	100.0	120.0				
24"		100.0	179.1	100.0	210.0				
30"		100.0	143.4	100.0	210.0				
32"		100.0	135.3	100.0	210.0				
36"	84"	100.0	120.0	100.0	120.0				
42"		100.0	106.1	100.0	120.0				
48"		85.6	85.6	100.0	120.0				
m 4 22	1	74.0	74.0	100.0	100.0				

74.8 | 74.8 | 100.0 | 120.0

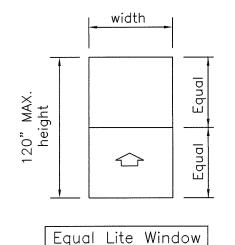
54"

EQUAL LITES WINDOWS								
DESIGN LOAD CAPACITY - PSF								
WINDOW DIMS. GLASS TYPE '1' GLASS TYPE '2								
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)			
24"		100.0	161.9	100.0	210.0			
30"		100.0	118.8	100.0	120.0			
32"	"	100.0	111.9	100.0	120.0			
36"	96"	100.0	101.5	100.0	120.0			
42"		85.4	85.4	100.0	120.0			
48"		76.2	76.2	100.0	120.0			
54"		68.9	68.9	100.0	120.0			
24"		100.0	142.4	100.0	210.0			
30"		100.0	102.2	100.0	120.0			
32"	108"	94.9	94.9	100.0	120.0			
36"	108	85.9	85.9	100.0	120.0			
42"		75.3	75.3	100.0	120.0			
48"		68.6	68.6	100.0	120.0			
24"		100.0	120.0	100.0	120.0			
30"		90.7	90.7	100.0	120.0			
32"	120"	83.6	83.6	100.0	120.0			
36"		75.9	75.9	100.0	120.0			
42"		66.4	66.4	100.0	120.0			

AND FLORIDA BUILDING COMMISSION

DECLARATORY STATEMENT DCA05-DEC-219

	EQUAL LITES WINDOWS							
DESIGN LOAD CAPACITY - PSF								
WINDOW DIMS. GLASS TYPE '1' GLASS TYPE '2'								
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)			
19-1/8"		100.0	210.0	100.0	210.0			
26-1/2"	26"	100.0	210.0	100.0	210.0			
37"	20	100.0	210.0	100.0	210.0			
53-1/8"		100.0	171.1	100.0	210.0			
19-1/8"		100.0	210.0	100.0	210.0			
26-1/2"	38-3/8"	100.0	210.0	100.0	210.0			
37"	00 0/0	100.0	197.2	100.0	210.0			
53-1/8"		100.0	124.1	100.0	206.9			
19-1/8"	50-5/8"	100.0	210.0	100.0	210.0			
26-1/2"		100.0	210.0	100.0	210.0			
37"		100.0	168.3	100.0	210.0			
53-1/8"		100.0	101.2	100.0	168.7			
19-1/8"		100.0	210.0	100.0	210.0			
26-1/2"	63"	100.0	207.5	100.0	210.0			
37"	0.5	100.0	154.9	100.0	210.0			
53-1/8"		88.1	88.1	100.0	120.0			
19-1/8"		100.0	210.0	100.0	210.0			
26-1/2"	70"	100.0	181.5	100.0	210.0			
37"	72"	100.0	146.8	100.0	210.0			
53-1/8"		82.0	82.0	100.0	120.0			
19-1/8"		100.0	210.0	100.0	210.0			
26-1/2"	76 "	100.0	171.4	100.0	210.0			
37"	/6	100.0	136.6	100.0	210.0			
53-1/8"		80.0	80.0	100.0	120.0			



PRODUCT RENEWED as complying with the Florids
Building Code Expiration Date CISTS (show). Chand Hiami Dade Product Control

Acceptance No 20-0213-01

All values shown are Design PSF (Pounds per Square Foot)

FOR SILL WITH WATERBAR ADAPTER FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXTERIOR(+) LOADS TO 80.0 PSF

LICENSE MIL No. 58705 ONAL EN A. LYNN MILLER, P.E.

P.E.# 58705

2/10/2020

SERIES "360" ALUM SINGLE HUNG WDW (LMI/SMI)

PREPARED BY A. LYNN MILLE 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600

WINDOOR
INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
(407) 481-8400

ALAN KINNE

SH360LM-NOA

4

OF

2

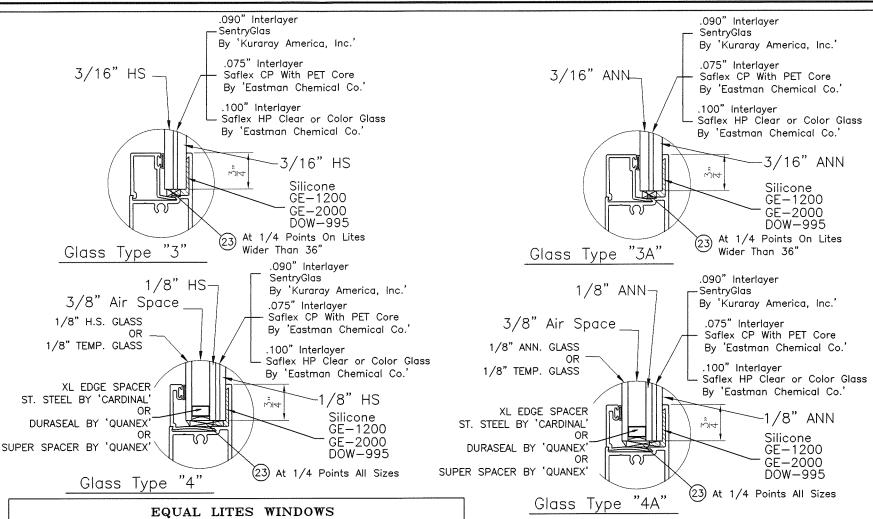
SH360

DESIGN LOAD TABLES

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS)

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

EQUAL LITES WINDOWS									
DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS. GLASS TYPE '3' GLASS TYPE '3A' GLASS TYPE '4' GLASS TYPE '4A'							YPE '4A'		
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
24"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
30"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
32"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
36"	48"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	203.0
42"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	171.0
48"		100.0	200.0	100.0	200.0	100.0	200.0	100.0	148.0
54"		100.0	171.4	100.0	171.4	100.0	171.4	100.0	131.0
24"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
30"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	200.0
32"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	188.0
36"	60"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	156.0
42"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	135.0
48"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
54"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	101.0
24"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	205.0
30"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	155.0
32"		100.0	210.0	100.0	191.2	100.0	210.0	100.0	147.0
36"	72"	100.0	210.0	100.0	198.4	100.0	210.0	100.0	137.0
42"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	119.0
48"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	102.0
54"		100.0	120.0	100.0	120.0	100.0	120.0	88.5	88.5
24"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	180.0
30"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	136.0
32"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	129.0
36"	84"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
42"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	105.0
48"		100.0	120.0	100.0	120.0	100.0	120.0	92.7	92.7
54"		100.0	120.0	100.0	120.0	100.0	120.0	80.4	80.4
24"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	157.0
30"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
32"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	109.0
36"	96"	100.0		100.0	120.0	100.0	120.0	100.0	102.0
			120.0	100.0		 			
42"		100.0	120.0		120.0	100.0	120.0	90.8	90.6
48"			120.0	100.0	120.0	100.0	120.0	80.9	83.7
54"		100.0	120.0	100.0	112.6	100.0	120.0	73.2	74.5
24"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	140.0
30"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	103.0
32"	108"	100.0	120.0	100.0	120.0	100.0	120.0	97.6	97.6
36"		100.0	120.0	100.0	120.0	100.0	120.0	88.9	88.9
42"		100.0	120.0	100.0	120.0	100.0	120.0	79.4	79.4
48"		100.0	120.0	100.0	112.2	100.0	120.0	72.8	72.8
24"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	129.0
30"		100.0	120.0	100.0	120.0	100.0	120.0	94.7	94.7
32"	120"	100.0	120.0	100.0	120.0	100.0	120.0	88.9	88.9
36"		100.0	120.0	100.0	120.0	100.0	120.0	80.2	80.2
42"		100.0	120.0	100.0	114.1	100.0	120.0	70.3	70.3



|EXT.(+)|1NT.(-)|EXT.(+)|1NT.(-)|EXT.(+)|1NT.(-)|EXT.(+)|1NT.(-)WIDTH HEIGHT 19-1/8 100.0 210.0 100.0 210.0 100.0 210.0 210.0 100.0 210.0 26-1/2" 100.0 100.0 210.0 100.0 210.0 210.0 100.0 210.0 100.0 210.0 100.0 37" 100.0 210.0 100.0 210.0 210.0 100.0 210.0 53-1/8" 100.0 210.0 100.0 100.0 210.0 19-1/8 100.0 210.0 100.0 210.0 100.0 210.0 100.0 210.0 26-1/2" 100.0 100.0 210.0 100.0 210.0 100.0 210.0 210.0 100.0 210.0 37" 100.0 210.0 100.0 210.0 100.0 210.0 53-1/8" 100.0 206.9 100.0 206.9 100.0 180.0 206.9 100.0 19-1/8" 100.0 210.0 100.0 210.0 100.0 210.0 100.0 210.0 100.0 210.0 100.0 210.0 100.0 210.0 100.0 210.0 26-1/2" 50-5/8' 183.0 37" 100.0 210.0 100.0 210.0 100.0 210.0 100.0 53-1/8" 100.0 168.7 100.0 168.7 100.0 168.7 100.0 123.0 100.0 210.0 100.0 210.0 19-1/8" 100.0 210.0 100.0 210.0 26-1/2" 100.0 210.0 100.0 210.0 100.0 210.0 100.0 210.0 63" 100.0 191.9 100.0 210.0 100.0 145.0 37" 100.0 210.0 100.0 120.0 100.0 120.0 100.0 120.0 100.0 99.0 53-1/8" 19-1/8" 210.0 100.0 210.0 100.0 210.0 100.0 210.0 100.0 100.0 210.0 100.0 210.0 100.0 210.0 100.0 184.0 26-1/2" 72" 100.0 210.0 100.0 196.5 100.0 210.0 100.0 134.0 37" 53-1/8" 100.0 120.0 100.0 120.0 100.0 120.0 94.6 90.0

19-1/8"

26 - 1/2"

37"

53-1/8"

100.0

100.0

100.0

100.0

210.0

210.0

210.0

120.0

100.0

100.0

100.0

100.0

210.0

210.0

194.8

120.0

210.0

210.0

210.0

120.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

88.3

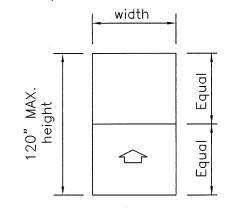
210.0

169.0 124.0

85.0

DESIGN LOAD CAPACITY - PSF

WINDOW DIMS. GLASS TYPE '3' GLASS TYPE '3A' GLASS TYPE '4' GLASS TYPE '4A' TO QUALIFY FOR SMALL MISSILE IMPACT RATING THE EXTERIOR PANE FOR GLASS TYPES "4" AND "4A" MUST BE TEMPERED. (INSTALLATIONS ABOVE 30 FT. OF GRADE)



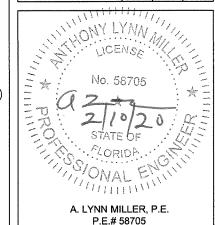
Equal Lite Window

All values shown are Design PSF (Pounds per Square Foot)

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE FOR SILL WITH WATERBAR ADAPTER FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXTERIOR(+) LOADS TO 80.0 PSF

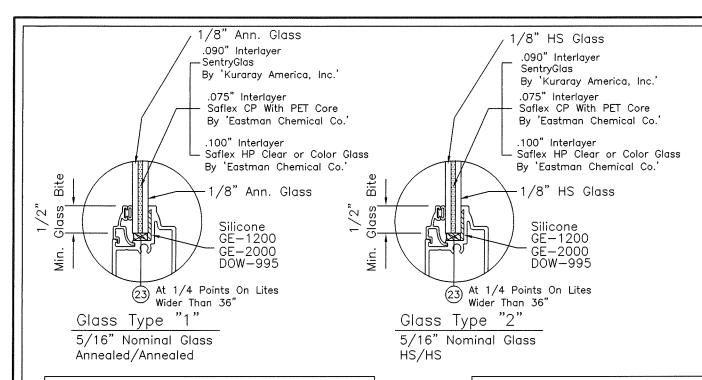
PRODUCT RENEWED as complying with the Mariko **Bulding Code** Acceptance No Zo-02/3.05 Expiration Date By 134-7 Hiami Dade Froduct Costro

2/10/2020 ALAN KINNE PREPARED BY A. LYNN MILLE 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 9100 SH360LM-NOA (LMI/SMI) WDW .oN HUNG DESIGN LOAD TABLES/GLASS Ш 4 SINGL INDOOR 9F 9 ALUM



SERIES '

SH360



UNEQUAL LITES WINDOWS (ORIEL)									
	DE	SIGN LOA	D CAPA	CITY -	PSF				
WINDO	W DIMS.	TOP VENT	GLASS T	TYPE '1'	GLASS T	TYPE '2'			
WIDTH	HEIGHT	HEIGHT		1NT.(-)	EXT.(+)	1NT.(-)			
24"			100.0	161.9	100.0	210.0			
30"			100.0	118.8	100.0	120.0			
32"			100.0	111.9	100.0	120.0			
36"	96" (MAX.)	48"	100.0	101.5	100.0	120.0			
42"	(WAA.)		85.4	85.4	100.0	120.0			
48"			76.2	76.2	100.0	120.0			
54"			68.9	68.9	100.0	120.0			
24"			100.0	142.4	100.0	210.0			
30"			100.0	102.2	100.0	120.0			
32"	108" (MAX.)	n	94.9	94.9	100.0	120.0			
36"		54"	85.9	85.9	100.0	120.0			
42"			75.3	75.3	100.0	120.0			
48"			68.6	68.6	100.0	120.0			
24"		60"	100.0	120.0	100.0	120.0			
30"			90.7	90.7	100.0	120.0			
32"	120"		83.6	83.6	100.0	120.0			
36"	(MAX.)		75.9	75.9	100.0	120.0			
42"			66.4	66.4	100.0	120.0			
24"			100.0	120.0	100.0	120.0			
30"	120"	66"	81.7	81.7	100.0	120.0			
32"	(MAX.)	00	77.7	77.7	100.0	120.0			
36"			67.4	67.4	100.0	120.0			
24"			100.0	113.6	100.0	120.0			
30"	120"	72"	77.1	77.1	100.0	120.0			
32"	(MAX.)	/ 4	70.1	70.1	100.0	120.0			
36"	()		60.3	60.3	100.0	120.0			
24"			100.0	120.0	100.0	120.0			
30"	120"	78"	71.2	71.2	100.0	120.0			
32"	(MAX.)		63.8	63.8	100.0	120.0			
24"	120"	0.4"	100.0	120.0	100.0	120.0			
30"	(MAX.)	84"	66.6	66.6	100.0	120.0			

All values shown are Design PSF (Pounds per Square Foot)

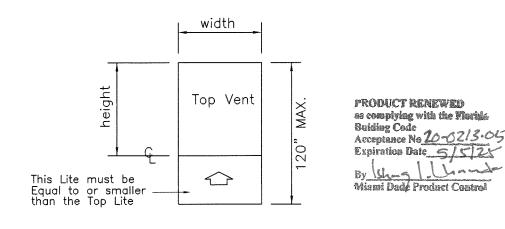
UNEQUAL LITES WINDOWS (ORIEL)										
	DESIGN LOAD CAPACITY - PSF									
WINDO	W DIMS.	TOP VENT	GLASS TYPE '1' GLASS TYPE '2							
WIDTH	HEIGHT	HEIGHT		1NT.(-)	EXT.(+)	1NT.(-)				
19-1/8"			100.0	210.0	100.0	210.0				
26-1/2"	96"	48"	100.0	138.5	100.0	210.0				
37"	(MAX.)	1	99.3	99.3	100.0	120.0				
53-1/8"	, ,		69.8	69.8	100.0	120.0				
19-1/8"			100.0	210.0	100.0	210.0				
26-1/2"	108"	54"	100.0	120.0	100.0	120.0				
37"	(MAX.)		83.6	83.6	100.0	120.0				
19-1/8"			100.0	210.0	100.0	210.0				
26-1/2"	120"	60"	100.0	108.6	100.0	120.0				
37"	(MAX.)		73.7	73.7	100.0	120.0				
19-1/8"			100.0	210.0	100.0	210.0				
26-1/2"	120"	66"	99.5	99.5	100.0	120.0				
37"	(MAX.)		65.7	65.7	100.0	120.0				
19-1/8"	120"	72"	100.0	210.0	100.0	210.0				
26-1/2"	(MAX.)		93.9	93.9	100.0	120.0				
19-1/8"	120"	78"	100.0	120.0	100.0	120.0				
26-1/2"	(MAX.)	/6	88.0	88.0	100.0	120.0				
19-1/8"	120"	84"	100.0	120.0	100.0	120.0				
26-1/2"	(MAX.)	04	79.8	79.8	100.0	120.0				

NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219 Supplemental Test Results for:

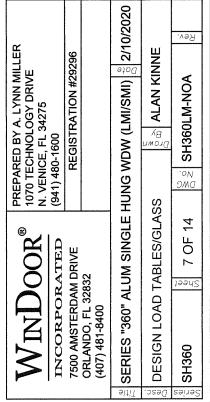
Air Infiltration — Water Leakage Resistance — Forced Entry

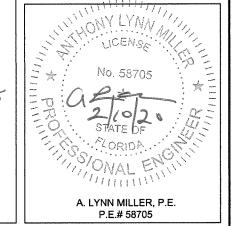
Test Type and Method	Results
Air Infiltration Test (ASTM-E283) © 1.57 psf pressure differential © 6.24 psf pressure differential	PASSED (.044 C.F. / Min / Sq Ft) PASSED (.076 C.F. / Min / Sq Ft)
Water Leakage Test (ASTM—E331) without waterbar adaptor with waterbar adaptor	No leakage allowed PASSED @ 12.0 PSF PASSED @ 15.0 PSF
Forced Entry Resistance test (ASTM F588 & Grade 10)	PASSED

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE FOR SILL WITH WATERBAR ADAPTER FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXTERIOR(+) LOADS TO 80.0 PSF



Unequal Lite Window





GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

	UNEQUAL LITES WINDOWS (ORIEL)									
			DES	IGN LOA	D CAPA	CITY -	PSF			
WINDOV	V DIMS.	TOP VENT	GLASS T	TYPE '3'	GLASS T	YPE '3A'	GLASS 7	TYPE '4'	GLASS T	YPE '4A'
WIDTH	HEIGHT	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
24"			100.0	210.0	100.0	210.0	100.0	210.0	100.0	154.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	114.0
32"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	114.0
36"	96"	48"	100.0	120.0	100.0	120.0	100.0	120.0	99.9	99.9
42"	(MAX.)		100.0	120.0	100.0	120.0	100.0	120.0	88.8	88.8
48"			100.0	120.0	100.0	120.0	100.0	120.0	82.3	82.3
54"			100.0	120.0	100.0	112.6	100.0	120.0	73.7	73.7
24"			100.0	210.0	100.0	210.0	100.0	210.0	100.0	138.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	101.0
32"	11		100.0	120.0	100.0	120.0	100.0	120.0	100.0	101.0
36"	108" (MAX.)	54"	100.0	120.0	100.0	120.0	100.0	120.0	87.4	87.4
42"	(MAX.)		100.0	120.0	100.0	120.0	100.0	120.0	78.2	78.2
48"			100.0	120.0	100.0	112.2	100.0	120.0	71.5	71.5
24"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	127.0
30"			100.0	120.0	100.0	120.0	100.0	120.0	93.4	93.4
32"	120"	60"	100.0	120.0	100.0	120.0	100.0	120.0	93.4	93.4
36"	(MAX.)		100.0	120.0	100.0	120.0	100.0	120.0	79.0	79.0
42"			100.0	120.0	100.0	114.1	100.0	120.0	69.1	69.1
24"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
30"	120"	66"	100.0	120.0	100.0	120.0	100.0	120.0	83.7	83.7
32"	(MAX.)		100.0	120.0	100.0	120.0	100.0	120.0	83.7	83.7
36"			100.0	120.0	100.0	120.0	100.0	120.0	70.0	70.0
24"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
30"	120"	72"	100.0	120.0	100.0	120.0	100.0	120.0	76.2	76.2
32"	(MAX.)	/2	100.0	120.0	100.0	120.0	100.0	120.0	76.2	76.2
36"			100.0	120.0	100.0	120.0	100.0	115.2	61.9	61.9
24"			100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
30"	120"	78"	100.0	120.0	100.0	120.0	100.0	120.0	72.2	72.2
32"	(MAX.)		100.0	120.0	100.0	120.0	100.0	120.0	72.2	72.2
24"	120"	84"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	118.0
30"	(MAX.)	04	100.0	120.0	100.0	120.0	100.0	120.0	68.9	68.9

	Saflex HP Clear or Color Glass							Color Gla	SS			Saflex HP Clear or Color Glass
				TIT	By '	Eastman	Chemic	al Co.'				By 'Eastman Chemical Co.'
	Glass Type "3" 3/16" HS Silicone GE-1200 GE-2000 DOW-995 23 At 1/4 Points On Lites Wider Than 36"						Silicone GE-12 GE-20 DOW-9 Points 0			Glass	Silicone GE-1200 GE-2000 DOW-995 At 1/4 Points On Lites Wider Than 36"	
	1/8" HS090" Interlayer090" Interlayer090" InterlayerSentryGlasBy 'Kuraray America, Inc.'											
		3/8" A ⁄8" H.S. (ce		.075" — Saflex	Interlaye CP With	r PET Co	re		B" Air .nn. gla:	Space075" Interlayer Saflex CP With PET Core By 'Eastman Chemical Co.'
,	By 'Eastman Chemical Co.' 1/8" TEMP. GLASS Saflex HP Clear or Color Glass By 'Eastman Chemical Co.' By Eastman Chemical Co. 1/8" TEMP. GLASS Saflex HP Clear or Color Glass By 'Eastman Chemical Co.'											
-	ST. STEE	KL EDGE : EL BY 'CA	RDINAL' OR			"¼ "¼	─1/8 Silicon GE-12	8" HS e 200	ST.	XL E STEEL B' IRASEAL		NAL' NAL' Silicone
S	SUPER SPAC	ER BY 'Q	UANEX' \	\parallel $$	\mathbb{K}		GE-20 DOW-9	995	SUPER	SPACER	BY 'QUAI	
		Glas	s Type	"4"	- -	23) At 1	/4 Point	s All Siz	es		Glas	s Type "4A" (23) At 1/4 Points All Sizes
-			UNI	EQUAL	LITE	S WIN	NDOWS	(OR	EL)			NOTE: TO QUALIFY FOR SMALL MISSILE IMPACT RATING
1				DES	IGN LOA	D CAPA	CITY -	PSF				THE EXTERIOR PANE FOR GLASS TYPES "4"
	WINDOV	V DIMS.	TOP VENT		TYPE '3'			****				AND "4A" MUST BE TEMPERED. (INSTALLATIONS ABOVE 30 FT. OF GRADE)
	WIDTH	HEIGHT	HEIGHT		1NT.(-)							(,
-	19-1/8"			100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0	width
-	26-1/2"	96"	48"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	136.0	width
+	37"	(MAX.)		100.0	120.0	100.0	120.0	100.0	120.0	97.8 75.4	97.8 75.4	
+	53-1/8" 19-1/8"			100.0	120.0 210.0	100.0	114.4 210.0	100.0	210.0	100.0	75. 4 204.0	T
1	113-1/0			100.0	210.0	100.0	210.0	100.0	210.0	100.0	207.0	

26-1/2" 120.0 120.0 100.0 120.0 100.0 120.0 100.0 100.0 108" 54" (MAX.) 120.0 85.4 85.4 37" 100.0 120.0 100.0 120.0 100.0 100.0 210.0 100.0 205.0 19-1/8 100.0 210.0 100.0 204.2 120.0 100.0 107.0 26-1/2" 120.0 100.0 120.0 100.0 60" 100.0 (MAX.) 77.1 100.0 120.0 77.1 100.0 120.0 100.0 120.0 37" 207.0 19-1/8" 100.0 210.0 100.0 210.0 100.0 210.0 100.0 99.7 26-1/2" 100.0 120.0 100.0 120.0 99.7 100.0 120.0 66" 120" (MAX.) 120.0 68.4 68.4 37" 100.0 120.0 100.0 120.0 100.0 210.0 100.0 210.0 100.0 210.0 100.0 199.0 19-1/8" 100.0 120" 72" 120.0 94.5 94.5 26-1/2" (MAX.) 100.0 120.0 100.0 120.0 100.0 210.0 100.0 192.0 19-1/8" 100.0 210.0 100.0 210.0 100.0 120" 78" 120.0 100.0 120.0 91.3 91.3 26-1/2" (MAX.) 100.0 120.0 100.0 100.0 210.0 100.0 210.0 100.0 181.0 19-1/8" 100.0 210.0 120" 84" 26-1/2" (MAX.) 100.0 120.0 | 100.0 | 120.0 100.0 120.0 89.2 89.2

.090" Interlayer

.075" Interlayer

.100" Interlayer

By 'Kuraray America, Inc.

Saflex CP With PET Core By 'Eastman Chemical Co.'

- SentryGlas

3/16" HS

All values shown are Design PSF (Pounds per Square Foot)

VALUES FOR EXTERIOR LOADS(+) SHOWN ARE FOR SILL WITH WATERBAR ADAPTER FOR WINDOWS WITHOUT WATERBAR ADAPTER LIMIT EXTERIOR(+) LOADS TO 80.0 PSF

.090" Interlayer

.075" Interlayer

.100" Interlayer

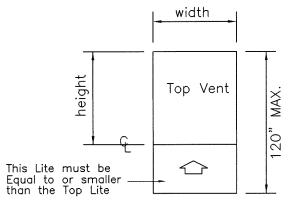
By 'Kuraray America, Inc.'

Saflex CP With PET Core

By 'Eastman Chemical Co.'

SentryGlas

3/16" ANN_



Unequal Lite Window

as complying with the Fluckle

Expiration Date 5/5/25

Miami Dade Product Control

Ishy 1. Chank

PROTUCTRENEWED

Sulding Code

HONY LYNN MIL No. 58705 Acceptance No 20-0213-05 SONAL " A. LYNN MILLER, P.E.

INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
(407) 481-8400

2/10/2020

(LMI/SMI)

WDW

SINGLE HUNG

, ALUM

SERIES '

ALAN KINNE

DESIGN LOAD TABLES/GLASS

SH360LM-NOA

.oN

OF

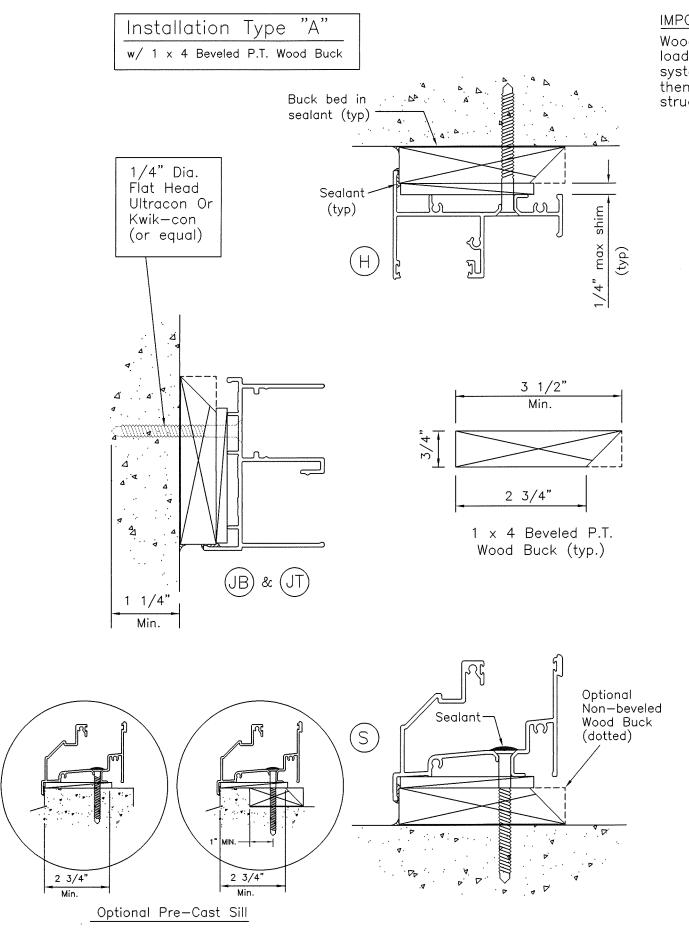
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SH360

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600

WINDOOR

P.E.# 58705



IMPORTANT NOTE:

Wood Bucks must sustain loads imposed by glazing system and transfer them to the building structure.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

1/4" DIA. HILTI KWIK-CON II (Fu=163 KSI, Fy=157 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR BUCKS 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS

1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#14 SMS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIMS) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN. INTO WOOD STRUCTURE = 1" MIN. INTO METAL STRUCTURE = 3/4" MIN.

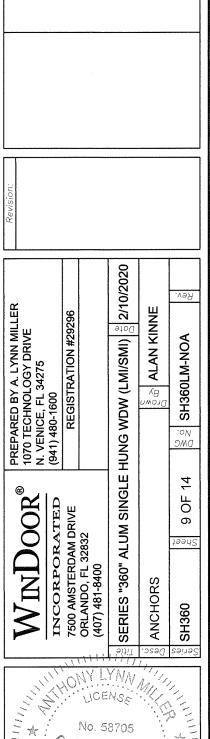
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN. CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN. C-90 FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

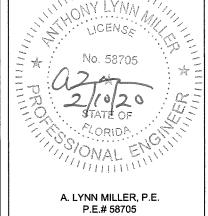
Values for Installation Type "A" apply to the following installation types, with maximum shim space 1/4":

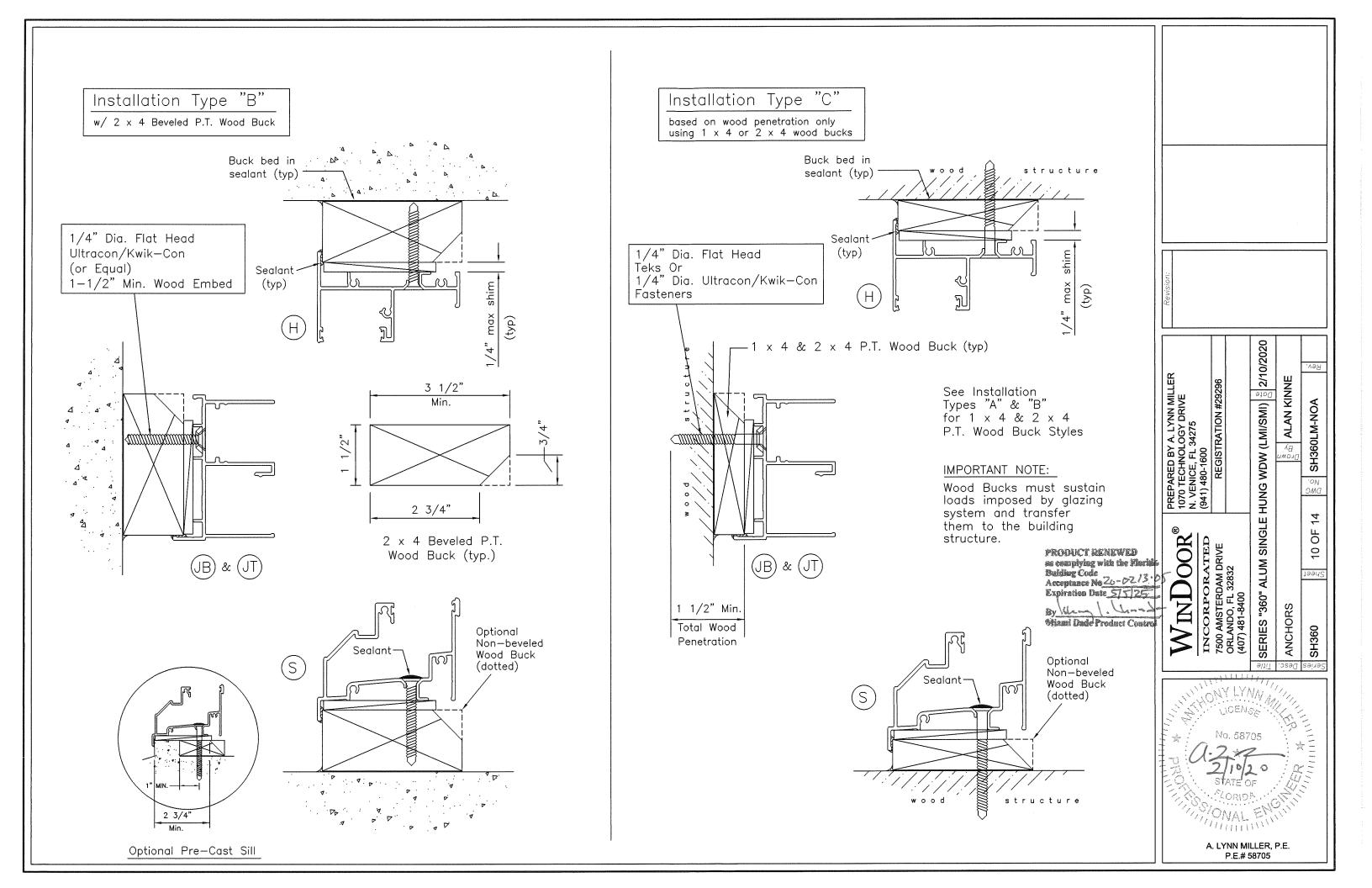
- 1- Using 1by P.T. wood bucks, min. 3/4" thick,
- 2— Directly into masonry, without the use of wood bucks.
- 3— Directly into a steel or aluminum structure
 Min. 1/8" thick and using #14 Teks or Self drilling screws.
 Structure must be designed by others to sustain the loads imposed by the window.

PRODUCT RENEWED as complying with the Florise.
Building Code
Acceptance No 26-0213.05
Expiration Date 515125

By 154-21.44-2



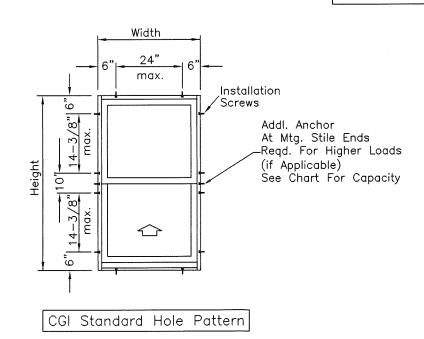




ANCHORS									
	DES	SIGN LOAI	D CAPACITY - PS	SF .					
WINDO	W DIMS.	NO. OF	STD. HOLE PATTERN W/O ADDL. ANCHOR	STD. HOLE PATTERN WITH ADDL. ANCHOR					
WIDTH	HEIGHT	AT JAMB	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)					
24"			210.0	210.0					
30"			210.0	210.0					
32"			210.0	210.0					
36"	48"	4	196.0	210.0					
42"			174.2	210.0					
48"			151.7	196.0					
54"			127.1	178.2					
24"			210.0	210.0					
30"			210.0	210.0					
32"			210.0	210.0					
36"	60"	6	210.0	210.0					
42"		1	171.1	210.0					
48"			134.4	201.6					
54"			110.7	166.0					
24"	,,,,,,,,		210.0	210.0					
30"			210.0	210.0					
32"			210.0	210.0					
36"	72"	8	210.0	210.0					
42"			165.1	210.0					
48"			125.4	188.2					
54"			101.2	151.7					
24"			210.0	210.0					
30"			210.0	210.0					
32"			207.5	210.0					
36"	84"	8	190.1	210.0					
42"			164.9	192.0					
48"			122.2	175.3					
54"			96.0	144.0					
24"			210.0	210.0					
30"			185.8	209.1					
32"			176.4	198.5					
36"	96"	8	160.8	180.9					
42"			143.4	161.3					
48"			122.1	147.0					
54"			94.1	135.7					
24"		-	210.0	210.0					
30"			202.3	210.0					
32"			191.7	210.0					
36"	108"	10	174.2	191.6					
42"			154.5	169.9					
48"			122.1	154.0					
24"			210.0	210.0					
30"			179.2	197.1					
32"	120"	10	169.6	186.6					
36"	, 20		153.7	169.1					
42"			135.8	149.3					
74		L	100.0	173.5					

	ANCHORS										
Ī		DES	IGN LOAI	D CAPACITY - PS	SF						
	WINDOV	V DIMS.	NO. OF ANCHORS	STD. HOLE PATTERN W/O ADDL. ANCHOR	STD. HOLE PATTERN WITH ADDL. ANCHOR						
	WIDTH	HEIGHT	AT JAMB	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)						
	19-1/8"			210.0	210.0						
l	26-1/2"	26"	4	210.0	210.0						
	37"	20	•	210.0	210.0						
	53-1/8"			208.6	210.0						
	19-1/8"			210.0	210.0						
	26-1/2"	38-3/8"	4	210.0	210.0						
	37"	30 3/0	T	210.0	210.0						
	53-1/8"			152.7	210.0						
ſ	19-1/8"			210.0	210.0						
	26-1/2"	50-5/8"	4	210.0	210.0						
	37"	30 3/0	т.	179.6	210.0						
	53-1/8"			125.7	169.5						
	19-1/8"			210.0	210.0						
١	26-1/2"	63"	6	210.0	210.0						
	37"	03	V	203.8	210.0						
	53-1/8"			110.7	166.1						
	19-1/8"			210.0	210.0						
	26-1/2"	72"	8	210.0	210.0						
	37"	12	J	210.0	210.0						
	53-1/8"			104.1	156.1						
	19-1/8"			210.0	210.0						
	26-1/2"	76"	8	210.0	210.0						
	37"	/ 0		210.0	210.0						
	53-1/8"			102.1	153.1						

LOADS APPLY TO INSTALLATION TYPES
A, B & C AND INTO ALUMINUM BUCKS
FOR ALUMINUM BUCK INSTALLATION SEE
SHEETS 13 AND 14.



expiration Date 5/5/25

Miami Dade Froduct Control

No. 58705

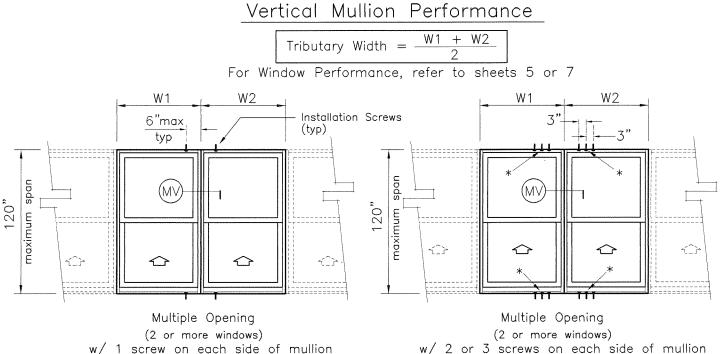
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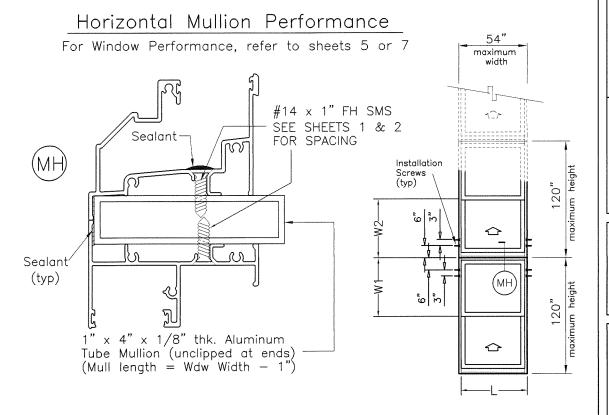
SORIDA

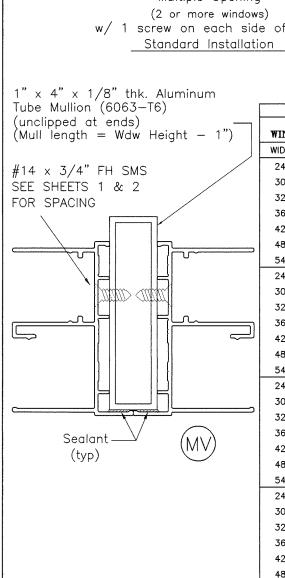
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A. LYNN MILLER, P.E. P.E.# 58705

SERIES "360" ALUM SINGLE HUNG WDW (LMI/SMI) $\frac{1}{|\mathcal{L}|}$ 2/10/2020 PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 ALAN KINNE SH360LM-NOA 4 WINDOOR
INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
(407) 481-8400 11 OF DESIGN LOAD TABLES SH360







		MUI	LLION DESIGN LOA	AD CAPACITY - F	PSF	Г
	WINDO	V DIMS.	ONE ANCHOR EACH SIDE	TWO ANCHORS EACH SIDE	THREE ANCHORS EACH SIDE	ļ ,
	WIDTH	HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	
	24"		150.0	210.0	210.0	Γ.
	30"		130.9	210.0	210.0	
	32"		126.6	210.0	210.0	
	36"	48"	120.0	210.0	210.0	
	42"		114.5	210.0	210.0	
,	48"		112.5	210.0	210.0	
	54"		112.5	210.0	210.0	
	24"		112.5	210.0	210.0	
	30"		96.0	192.0	210.0	
	32"	"	92.0	184.1	210.0	
٦	36"	60"	85.7	171.4	210.0	
J	42"		79.1	158.2	210.0	
	48"		75.0	150.0	210.0	L
	54"		72.7	145.5	210.0	
	24"		90.0	180.0	210.0	
	30"		75.8	151.6	210.0	
כ	32"		72.3	144.6	210.0	
	36"	72"	66.7	133.3	197.9	L
	42"		60.5	121.0	175.4	
	48"		56.3	112.5	159.8	
	54"		53.3	106.7	149.0	
	24"		75.0	150.0	202.2	
	30"		62.6	125.2	164.2	
	32"		59.6	119.1	154.8	
	36"	84"	54.5	109.1	139.5	
	42"		49.0	98.0	122.4	
	48"		45.0	90.0	110.0	
	54"		42.1	84.2	101.2	

High Load Installation

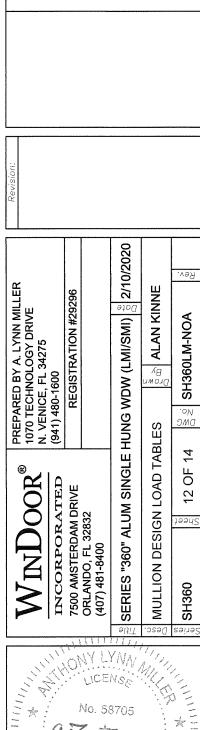
(* = additional holes to be drilled by installer)

	MU	LION DESIGN LOA	AD CAPACITY - F	PSF	MULLION DESIGN LOAD CAPACITY - PSF					
WINDO	W DIMS.	ONE ANCHOR EACH SIDE	TWO ANCHORS EACH SIDE	THREE ANCHORS EACH SIDE	WINDO	W DIMS.	ONE ANCHOR EACH SIDE	TWO ANCHORS EACH SIDE	THREE ANCHORS EACH SIDE	
WIDTH	HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	WIDTH	HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	
24"		64.3	128.6	142.1	53-1/8"	26"	210.0	210.0	210.0	
30"		53.3	106.7	115.3	19-1/8"		210.0	210.0	210.0	
32"		50.6	101.2	108.7	26-1/2"	38-3/8"	194.6	210.0	210.0	
36"	96"	46.2	92.3	97.8	37"	00 0,0	176.2	210.0	210.0	
42"		41.1	82.3	85.6	53-1/8"		176.0	210.0	210.0	
48"		37.5	75.0	76.8	19-1/8"		165.0	210.0	210.0	
54"		34.8	69.6	70.3	26-1/2"	50-5/8"	130.9	210.0	210.0	
24"		56.3	99.3	99.3	37"	00 0,0	109.0	210.0	210.0	
30"		46.5	80.3	80.3	53-1/8"		101.1	202.3	210.0	
32"	108"	44.0	75.6	75.6	19-1/8"		126.8	210.0	210.0	
36"	100	40.0	67.8	67.8	26-1/2"	63"	98.3	196.6	210.0	
42"		35.5	59.1	59.1	37"	63	78.7	157.4	210.0	
48"		32.1	52.8	52.8	53-1/8"		67.0	133.9	200.9	
24"		50.0	72.1	72.1	19-1/8"		108.5	210.0	210.0	
30"		41.1	58.2	58.2	26-1/2"	72"	83.2	166.5	210.0	
32"	120"	38.9	54.7	54.7	37"	'2	65.5	130.9	193.5	
36"		35.3	49.0	49.0	53-1/8"		53.7	107.4	150.3	
42"		31.2	42.6	42.6	19-1/8"		102.0	204.0	210.0	
					26-1/2"	76"	77.9	155.9	210.0	
					37"	,,,	60.9	121.8	170.9	
					53-1/8"		49.3	98.7	131.1	

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No
Expiration Date

S15725

By Shand. Company



A. LYNN MILLER, P.E. P.E.# 58705

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

		INS		N ANCH	ORS		
WINDO	W DIMS.		SPACING CONC.	1	SPACING LOW BLOCK	l	SPACING WOOD
WIDTH	HEIGHT	16" O.C.	8" O.C.	16" O.C.	8" O.C.	16" O.C.	8" O.C.
24"		210.0	210.0	178.7	210.0	210.0	210.0
30"		210.0	210.0	155.9	210.0	210.0	210.0
32"		210.0	210.0	150.8	210.0	210.0	210.0
36"	48"	210.0	210.0	142.9	210.0	210.0	210.0
42"		205.7	210.0	131.3	204.2	176.3	210.0
48"		205.7	210.0	131.3	201.0	180.0	210.0
54"		168.0	210.0	107.2	187.6	144.0	210.0
24"		210.0	210.0	134.0	210.0	210.0	210.0
30"		179.2	210.0	114.3	200.1	210.0	210.0
32"		171.8	210.0	109.6	191.9	210.0	210.0
36"	60"	160.0	210.0	102.1	178.7	210.0	210.0
42"		147.7	210.0	94.2	164.9	176.3	210.0
48"		140.0	210.0	89.3	156.3	180.0	210.0
54"		135.8	210.0	86.6	151.6	142.2	210.0
24"		210.0	210.0	134.0	210.0	210.0	210.0
30"		176.8	210.0	112.8	203.1	210.0	210.0
32"		168.8	210.0	107.7	193.8	210.0	210.0
36"	72"	155.6	210.0	99.3	178.7	210.0	210.0
42"		141.2	210.0	90.1	162.2	176.3	210.0
48"		131.3	210.0	83.8	150.8	180.0	210.0
54"		124.4	210.0	79.4	142.9	142.2	210.0
24"		210.0	210.0	134.0	210.0	210.0	210.0
30"		175.3	210.0	111.9	186.4	210.0	210.0
32"		166.8	210.0	106.4	177.4	210.0	210.0
36"	84"	152.7	210.0	97.5	162.4	210.0	210.0
42"		137.1	210.0	87.5	145.9	176.3	210.0
48"		126.0	210.0	80.4	134.0	180.0	210.0
54"		117.9	196.5	75.2	125.4	142.2	210.0
24"		210.0	210.0	134.0	210.0	210.0	210.0
30"		174.2	210.0	111.2	190.6	210.0	210.0
32"		165.4	210.0	105.5	180.9	210.0	210.0
36"	96"	150.8	210.0	96.2	164.9	210.0	210.0
42"		134.4	210.0	85.8	147.0	176.3	210.0
48"		122.5	210.0	78.2	134.0	180.0	210.0
54"		113.6	194.8	72.5	124.3	142.2	210.0
24"		183.8	210.0	117.3	210.0	210.0	210.0
30"		151.7	210.0	96.8	179.8	210.0	210.0
32"	108"	143.8	210.0	91.8	170.4	210.0	210.0
36"	, 00	130.7	210.0	83.4	154.8	210.0	210.0
42"		115.9	210.0	73.9	137.3	176.3	210.0
48"		105.0	195.0	67.0	124.4	180.0	210.0
24"		186.7	210.0	119.1	210.0	210.0	210.0
30"		153.6	210.0	98.0	183.8	210.0	210.0
32"	120"	145.4	210.0	92.8	173.9	210.0	210.0
	l						

36"

42"

131.8

116.4

210.0

210.0

84.1

74.3

157.6

139.2

210.0

176.3

210.0

210.0

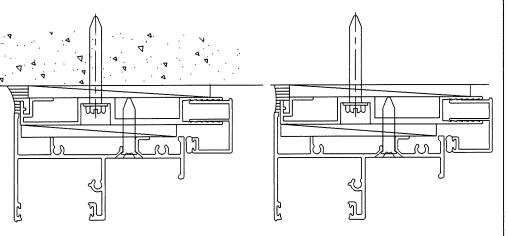
PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

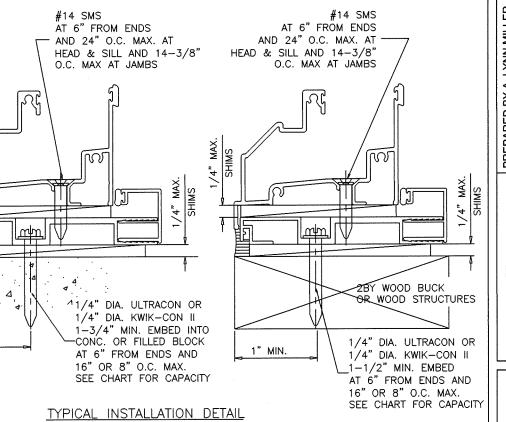
EXT.(+) & INT.(-)

WINDOW	DIMS.		SPACING CONC.	I	SPACING LOW BLOCK	ANCHOR INTO	SPACING WOOD
WIDTH	HEIGHT	16" O.C.	8" O.C.	16" O.C.	8" O.C.	16" O.C.	8" O.C.
19-1/8"		210.0	210.0	210.0	210.0	210.0	210.0
26-1/2"	26"	210.0	210.0	210.0	210.0	210.0	210.0
37"	20	210.0	210.0	185.5	210.0	210.0	210.0
53-1/8"		210.0	210.0	148.0	210.0	198.8	210.0
19-1/8"		210.0	210.0	210.0	210.0	210.0	210.0
26-1/2"	70 7/0"	210.0	210.0	173.9	210.0	210.0	210.0
37"	38-3/8"	210.0	210.0	157.4	210.0	210.0	210.0
53-1/8"		185.8	210.0	118.5	207.4	159.2	210.0
19-1/8"		210.0	210.0	196.6	210.0	210.0	210.0
26-1/2"	50_5/9"	210.0	210.0	155.9	210.0	210.0	210.0
37"	50-5/8"	203.5	210.0	129.9	194.8	210.0	210.0
53-1/8"		171.8	210.0	109.6	180.7	147.3	210.0
19-1/8"		210.0	210.0	188.8	210.0	210.0	210.0
26-1/2"	63"	210.0	210.0	146.4	210.0	210.0	210.0
37"	63	183.7	210.0	117.2	187.5	210.0	210.0
53-1/8"		156.2	210.0	99.7	159.5	146.9	210.0
19-1/8"		210.0	210.0	161.6	210.0	210.0	210.0
26-1/2"	72"	194.2	210.0	123.9	210.0	210.0	210.0
37"	12	152.8	210.0	97.5	175.5	210.0	210.0
53-1/8"		125.3	210.0	79.9	143.9	146.9	210.0
19-1/8"		210.0	210.0	151.9	210.0	210.0	210.0
26-1/2"	76"	181.9	210.0	116.0	208.9	210.0	210.0
37"	70	142.1	210.0	90.7	163.3	210.0	210.0
53-1/8"		115.1	207.3	73.5	132.2	146.9	210.0

ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 3 THRU 9 FOR WINDOW CAPACITIES USE LOWER APPLICABLE VALUES.





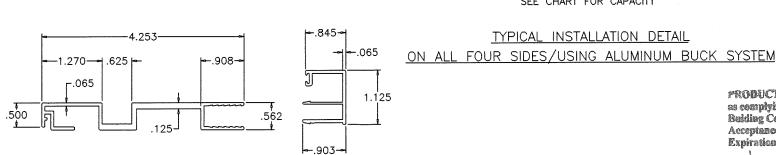


2/10/2020 PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 ALAN KINNE Date SH360LM-NOA HUNG WDW (LMI/SMI) No. 7 "360" ALUM SINGLE WINDOOR®

INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
(407) 481-8400 P 13 ALUMINUM BUCK 19948 SERIES ' SH360

LICENSE MIL

No. 58705



SILLS CAN ALSO BE USED

WITH OPTIONAL WATERBAR

ALUMINUM BUCK 6063-T6 OPTIONAL COVER 6063-T6

CONCRETE = 3000 PSI

2 1/2" MIN.

EDGE DIST.

BLOCK = 1924 PSI

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 20-02/3-05
Expiration Date 515125
By 64-7 64-2
Minmi Dade Broduct Council

A. LYNN MILLER, P.E. P.E.# 58705

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

EXT.(+) & INT.(-)

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

ANCHORS INTO CONC.

CLUSTER CLUSTER

OF 4

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

203.5

188.8

210.0

183.5

146.9

125.0

202.6

155.4

122.2

100.2

190.4

145.5

113.7

92.1

OF 6

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

187.5

210.0

210.0

183.3

150.3

210.0

210.0

170.6

138.2

EXT.(+)	&	INT.	(-)
---------	---	------	-----

OF 2

210.0

210.0

210.0

210.0

210.0 181.7

164.5

164.3

154.0

122.1

101.8

94.4

118.4

91.7

73.5

62.5

101.3

77.7

61.1

50.1

95.2

72.7

56.9

46.1

-ALL OTHER HOLES

DRILLED IN FIELD

PRE PUNCHED ANCHOR HOLES

ANCHORS INTO HOLLOW BLOCK

OF 4

210.0

210.0

210.0

210.0

210.0

210.0

209.9

209.6

196.6

155.9

129.9

120.5

151.0

117.1

93.8

79.7

129.3

99.2

78.0

64.0

121.5

92.8

72.6

58.8

210.0

210.0

210.0

210.0

115.9

105.0

104.8

98.3

77.9

64.9

60.2

75.5

58.5

46.9

39.9

64.6

49.6

39.0

32.0

60.7

46.4

36.3

29.4

3" TYP.

SPACING

OF 6

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

194.8

180.7

210.0

175.6

140.6

119.6

193.9

148.7

117.0

95.9

182.2

139.2

108.8

88.2

OF 8

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

187.5

159.5

210.0

198.3

156.0

127.9

210.0

185.7

145.1

117.6

		············				∧1.(+) &	,,,,,							\vdash
WIND	ow dims.	ANCE	iors into	HOLLOW	BLOCK		ANCHORS	INTO CON	J.		ANCHORS	INTO WOOD	D	L
WIDTH	HEIGHT	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8	
24"		89.3	178.7	210.0	210.0	140.0	210.0	210.0	210.0	120.0	210.0	210.0	210.0	Γ
30"		78.0	155.9	210.0	210.0	122.2	210.0	210.0	210.0	104.7	209.5	210.0	210.0	
32"		75.4	150.8	210.0	210.0	118.1	210.0	210.0	210.0	101.3	202.5	210.0	210.0	
36"	48"	71.5	142.9	210.0	210.0	112.0	210.0	210.0	210.0	96.0	192.0	210.0	210.0	
42"		68.1	136.1	204.2	210.0	106.7	210.0	210.0	210.0	91.4	182.9	210.0	210.0	Γ
48"		67.0	134.0	201.0	210.0	105.0	210.0	210.0	210.0	90.0	180.0	210.0	210.0	
54"		67.0	134.0	201.0	210.0	105.0	210.0	210.0	210.0	90.0	180.0	210.0	210.0	
24"		67.0	134.0	201.0	210.0	105.0	210.0	210.0	210.0	90.0	180.0	210.0	210.0	
30"		57.2	114.3	171.5	210.0	89.6	179.2	210.0	210.0	76.8	153.6	210.0	210.0	Γ
32"		54.8	109.6	164.5	210.0	85.9	171.8	210.0	210.0	73.6	147.3	210.0	210.0	
36"	60"	51.0	102.1	153.1	204.2	80.0	160.0	210.0	210.0	68.6	137.1	205.7	210.0	
42"		47.1	94.2	141.4	188.5	73.8	147.7	210.0	210.0	63.3	126.6	189.9	210.0	
48"		44.7	89.3	134.0	178.7	70.0	140.0	210.0	210.0	60.0	120.0	180.0	210.0	T
54"		43.3	86.6	129.9	173.3	67.9	135.8	203.6	210.0	58.2	116.4	174.5	210.0	
24"		53.6	107.2	160.8	210.0	84.0	168.0	210.0	210.0	72.0	144.0	210.0	210.0	
30"		45.1	90.3	135.4	180.5	70.7	141.5	210.0	210.0	60.6	121.3	181.9	210.0	
32"		43.1	86.1	129.2	172.3	67.5	135.0	202.5	210.0	57.9	115.7	173.6	210.0	T
36"	72"	39.7	79.4	119.1	158.8	62.2	124.4	186.7	210.0	53.3	106.7	160.0	210.0	
42"		36.0	72.1	108.1	144.1	56.5	112.9	169.4	210.0	48.4	96.8	145.2	193.6	
48"		33.5	67.0	100.5	134.0	52.5	105.0	157.5	210.0	45.0	90.0	135.0	180.0	1
54"		31.8	63.5	95.3	127.1	49.8	99.6	149.3	199.1	42.7	85.3	128.0	170.7	ľ
24"		44.7	89.3	134.0	178.7	70.0	140.0	210.0	210.0	60.0	120.0	180.0	210.0	
30"		37.3	74.6	111.9	149.1	58.4	116.9	175.3	210.0	50.1	100.2	150.3	200.3	
32"		35.5	70.9	106.4	141.9	55.6	111.2	166.8	210.0	47.6	95.3	142.9	190.6	1
36"	84"	32.5	65.0	97.5	129.9	50.9	101.8	152.7	203.6	43.6	87.3	130.9	174.5	_
42"		29.2	58.3	87.5	116.7	45.7	91.4	137.1	182.9	39.2	78.4	117.6	156.7	
48"		26.8	53.6	80.4	107.2	42.0	84.0	126.0	168.0	36.0	72.0	108.0	144.0	
54"		25.1	50.2	75.2	100.3	39.3	78.6	117.9	157.2	33.7	67.4	101.1	134.7	
24"		38.3	76.6	114.9	153.1	60.0	120.0	180.0	210.0	51.4	102.9	154.3	205.7	
30"		31.8	63.5	95.3	127.1	49.8	99.6	149.3	199.1	42.7	85.3	128.0	170.7	
32"		30.1	60.3	90.4	120.6	47.2	94.5	141.7	189.0	40.5	81.0	121.5	162.0	
36"	96"	27.5	55.0	82.5	109.9	43.1	86.2	129.2	172.3	36.9	73.8	110.8	147.7	
42"		24.5	49.0	73.5	98.0	38.4	76.8	115.2	153.6	32.9	65.8	98.7	131.7	
48"		22.3	44.7	67.0	89.3	35.0	70.0	105.0	140.0	30.0	60.0	90.0	120.0	
54"		20.7	41.4	62.1	82.9	32.5	64.9	97.4	129.9	27.8	55.7	83.5	111.3	
24"		33.5	67.0	100.5	134.0	52.5	105.0	157.5	210.0	45.0	90.0	135.0	180.0	
30"		27.7	55.3	83.0	110.7	43.4	86.7	130.1	173.4	37.2	74.3	111.5	148.6	
32"	108"	26.2	52.4	78.7	104.9	41.1	82.2	123.3	164.3	35.2	70.4	105.7	140.9	
36"	100	23.8	47.6	71.5	95.3	37.3	74.7	112.0	149.3	32.0	64.0	96.0	128.0	
42"		21.1	42.2	63.4	84.5	33.1	66.2	99.3	132.4	28.4	56.7	85.1	113.5	
48"		19.1	38.3	57.4	76.6	30.0	60.0	90.0	120.0	25.7	51.4	77.1	102.9	
24"		29.8	59.6	89.3	119.1	46.7	93.3	140.0	186.7	40.0	80.0	120.0	160.0	
30"		24.5	49.0	73.5	98.0	38.4	76.8	115.2	153.6	32.9	65.8	98.7	131.7	
32"	120"	23.2	46.4	69.6	92.8	36.3	72.7	109.0	145.4	31.2	62.3	93.5	124.6	
36"		21.0	42.0	63.1	84.1	32.9	65.9	98.8	131.8	28.2	56.5	84.7	112.9	į
42"		18.6	37.1	55.7	74.3	29.1	58.2	87.3	116.4	24.9	49.9	74.8	99.7	ĺ

1X4 MULLION SEE SHT 8 OF 11 CLUSTER OF 2, 4, 6 OR 8 ANCHORS (SEE CHARTS ABOVE). ALL OTHER BUCK ÀNCHORS AS PER SHEET 13. (CLUSTER OF 8 BEING SHOWN)

WINDOW DIMS.

HEIGHT

38-3/8"

WIDTH

19-1/8

26-1/2

37"

53-1/8"

19-1/8"

26-1/2

37"

53-1/8"

19-1/8"

26-1/2"

37"

53-1/8

19-1/8"

26-1/2"

37"

53-1/8"

19-1/8"

26-1/2"

37"

53-1/8

19-1/8"

26-1/2*

37"

53-1/8

ANCHORS MIN. EDGE DIST. = 2-1/2 IN. PRODUCT RENEWED 22 complying with the Florida Bulding Code Acceptance No 20-02 13.05 Expiration Date MAYAS, 2025

NOTE: ALUMINUM BUCKS ARE SUPPLIED WITH CLUSTER OF 2 (1 SCREW HOLE PER SIDE) STANDARD. EXTRA HOLES MUST BE FIELD DRILLED IF REQUIRED.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 209.5 171.8 210.0 210.0 194.9 157.9 WINDOOR
INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
(407) 481-8400 MY LYNN MIL No. 58705

ANCHORS AT ALUMINUM BUCK FRAMING (AT MULLION ENDS)

FOR WINDOW ANCHORING TO ALUMINUM BUCKS USE #14 SCREWS SPACED AS PER SHEETS 11 & 12.



ALAN KINNE

(LMI/SMI)

HUNG

Щ SINGL

SERIES

A. LYNN MILLER, P.E.

P.E.# 58705

SH360LM-NOA

ᆼ

SH360

ALUMINUM

ANCHORS INTO WOOD

OF 6

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

210.0

188.9

160.7

210.0

199.8

157.1

128.9

210.0

187.0

146.2

118.4

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157.3

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107.1

173.7

133.2

104.8

85.9

163.2

124.7

97.5

79.0

OF 2

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188.2

155.7

141.0

140.8

132.0

104.7

87.2

80.9

101.4

78.6

63.0

53.6

86.8

66.6

52.4

43.0

81.6

62.3

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Polyglass USA Inc. 1111 W. Newport Center Drive Deerfield Beach, FL 33442

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Polyglass Polystick Underlayments

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 21-1217.02 and consists of pages 1 through 12. The submitted documentation was reviewed by Alex Tigera.

Stepay

NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23

Page 1 of 12



ROOFING COMPONENT APPROVAL

Category:RoofingSub-Category:UnderlaymentMaterial:SBS, APP

PRODUCTS DESCRIPTION:

Product	Dimensions	Test Specification	Product <u>Description</u>
Polystick IR-Xe Manufacturing Location #1, #2, & #3	65' x 3' Or 33.4' x 3' 60 mils thick	ASTM D1970	A fine granular/sand top surface self-adhering, APP polymer modified, fiberglass reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield.
Polystick MU-X Manufacturing Location #1, #2, & #4	65' x 3' 60 mils thick	ASTM D1970	A polypropylene film surface self-adhering, SBS polymer modified, fiberglass reinforced, bituminious sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield.
Polystick TU Max Manufacturing Location #1, #2, & #3	65'8" x 3'3-3/8" 60 mils thick	TAS 103	A rubberized asphalt self-adhering, polyester reinforced waterproofing membrane. Designed as a roof tile underlayment.
Polystick TU P Manufacturing Location #1, #2, & #3	32'10" x 3'3- ³ / ₈ " 130 mils thick	TAS 103	A rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface designed for use as a tile roof underlayment.
Polystick TU Plus (Surface Printing) Manufacturing Location #1, #2, #3, & #5	65' x 3'3- ³ / ₈ " 80 mils thick	TAS 103	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
HydraGuard Dual Pro Manufacturing Location #1, #2, #3, & #5	65' x 3'3- ³ / ₈ " 80 mils thick	TAS 103	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
HydraGuard Tile Pro Manufacturing Location #1, #2, #3, & #5	65' x 3'3- ³ / ₈ " 80 mils thick	TAS 103	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
Polystick MTS Manufacturing Location #1, #2, #3, and #4	65'8" x 3'3- ³ / ₈ " 60 mils thick	TAS 103	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.



NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23 Page 2 of 12

PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	Test <u>Specification</u>	Product <u>Description</u>
Polystick MTS Manufacturing Location #5	65'8" x 3'3- ³ / ₈ " 60 mils thick	ASTM D 1970	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Polystick MTS Plus	$65'8" \times 3'3^{-3}/8"$	TAS 103	A homogeneous, rubberized asphalt waterproofing
Manufacturing Location #1, #2, #3, & #4	60 mils thick		membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Polystick MTS Plus Manufacturing Location #5	65'8" x 3'3- ³ / ₈ " 60 mils thick	ASTM D 1970	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Elastoflex S6 G Manufacturing Location #1 & #2	32'10" x 3'3-3/8"	TAS 103 and ASTM D6164	Polyester reinforced, SBS modified bitumen membrane with a sanded back face and a granule top surface. For use in roof tile underlayment systems.
Polyflex SA P	32' 10" x 3' 3- ³ / ₈ "	TAS 103 and	Self-adhered, polyester reinforced, APP modified
Manufacturing Location #2 & #3		ASTM D6222	bitumen membrane with a self-adhering back face and a granule top surface.
ELASTOFLEX SA V Manufacturing Location #3 & #4	65' 8" x 3' 3- ³ / ₈ "	ASTM D1970	Self-adhered, fiberglass reinforced, SBS modified bitumen base or interplay membrane with a self-adhering back face and a smooth top surface.

MANUFACTURING PLANTS:

- 1. Hazelton, PA
- 2. Winter Haven, FL
- 3. Waco, TX
- 4. Fernley, NV
- 5. Ponte di Piave TV, Italy



NOA No.: 22-1221.01 **Expiration Date: 09/13/27** Approval Date: 04/06/23

Page 3 of 12

EVIDENCE SUBMITTED

Test Agency	Test Identifier	Test Name/Report	<u>Date</u>
PRI	DAPF-002-02-01	ASTM D1623	03/08/18
Tainite: EDD	P40390.10.12	ASTM D 1970	10/02/12
Trinity ERD	P37590.07.13-1	ASTM D 1970 ASTM D6164	10/03/12 07/02/13
	P45270.05.14	TAS 103, TAS 110 & ASTM D1623	07/02/13
	P46520.10.14	ASTM D1623	10/03/14
	P44360.10.14-R1	TAS 103 & TAS 110	10/07/14
	P43290.10.14-R1	ASTM D 1970 & TAS 110	10/17/14
	PLYG-SC7550.03.15	TAS 103 & ASTM D4798	03/24/15
	PLYG-SC10130.06.16-3	TAS 103 & TAS 110	06/27/16
	PLYG-SC10130.06.16-1	ASTM D1970 & TAS 110	06/27/16
	PLYG-SC10130.09.16	ASTM D1623	09/22/16
	PLYG-SC13035.08.17	TAS 103 & ASTM D4798	10/31/17
NEMO ETC, LLC	PLYG-SC13320.10.17-R1	TAS 103	10/25/17
	4-PLYG-18-004.03.18	ASTM D1970	03/29/18
	4j-PLYG-19-SSUDL-00.A	ASTM D1970	09/10/19
	4S-PLYG-18-004.10.19-G	TAS 103	10/08/19
	4S-PLYG-18-004.10.19-I	TAS 103	10/08/19
	4S-PLYG-18-004.10-19-L	TAS 103	10/09/19
	4S-PLYG-18-004.12.19-F	TAS 103	12/18/19
	4j-PLYG-19-SSUDL-02.A	TAS 103	01/02/20
	4S-PLYG-18-004.01.20-H	ASTM D1970	01/14/20
	4S-PLYG-18-004.01.20.K	ASTM D1970	01/14/20
	4S-PLYG-18-004.01.20.A	TAS 103	01/16/20
	4S-PLYG-18-004.01.20.B	ASTM D6164	01/16/20
	4p-DOW-19-SSLAP-01.A.R2	ASTM D1623	02/10/20
	PLYG-SC15855.05.20-A	TAS 103 & TAS 110	05/29/20
	4S-PLYG-18-004.12.19.D	ASTM D1970	10/27/20
	4j-PLYG-19-SSUDL-01.A	TAS 103	11/18/20
	4j-PLYG-20-SSUDL-05.C	TAS 103	11/19/20
	4j-PLYG-20-SSUDL-05.A	ASTM D1970	11/19/20
	4p-ICP-20-SSLAP-03.A-R1	ASTM D1623	03/04/21
	PLYG-SC15855.06.20-B	ASTM D4073	05/12/21
	4j-PLYG-21-SSUDL-03.A	ASTM D1970	10/29/21
	4j-PLYG-20-SSUDL-07.A	ASTM D1623	10/29/21
	4j-PLYG-20-SSUDL-09.A	TAS 103	10/29/21
	4j-PLYG-21-SSUDL-04.B	ASTM D1970	01/17/22
	4j-PLYG-21-SSUDL-09.A	ASTM D1970	02/14/22
	4j-PLYG-21-SSUDL-04.A.R1	TAS 103	07/05/22
	4j-PLYG-22-SSUDL-01.A	ASTM D1970	09/08/22
	4j-PLYG-22-SSUDL-02.A	ASTM D1970	09/08/22
	4j-PLYG-22-SSUDL-03.A	ASTM D1970	09/08/22
	4j-PLYG-21-SSUDL-02.A	ASTM D4073	10/12/22



NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23 Page 4 of 12

LABELING:

1. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city and state of manufacturing facility and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

1. This Notice of Acceptance.

2. Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this materials.

INSTALLATION PROCEDURES:

Deck Type 1: Wood, non-insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(1): Anchor sheet mechanically fastened to deck, membrane adhered **Anchor/Base Sheet:** One or more plies of ASTM D 226 Type II or ASTM D 2626.

Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for

base sheet only)

Membrane: Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU

Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS

Plus, Polyflex SA P or ELASTOFLEX SA V, self-adhered.

Surfacing: See General Limitations Below.

Deck Type 1: Wood, non-insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(2): Anchor sheet mechanically fastened to deck, membrane adhered

Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.

Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for

base sheet only)

Membrane: Elastoflex S6 G, hot asphalt applied.

Surfacing: See General Limitations Below.



NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23

Page 5 of 12

Deck Type 1: Wood, non-insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(3): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.

Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.

Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for

base sheet only)

Ply Sheet: Polystick MTS or Polystick MTS Plus, self-adhered with minimum 3" horizontal laps and

minimum 6" vertical laps.

Membrane: Polystick TU Plus, HydraGuard Tile Pro or HydraGuard Dual Pro, self-adhered.

Surfacing: See General Limitations Below.

Deck Type 1: Wood, non-insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(4): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.

Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.

Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4"head lap. (for

base sheet only)

Ply Sheet: Polystick MTS or Polystick MTS Plus, self-adhered with minimum 3" horizontal laps and

minimum 6" vertical laps.

Membrane: Polystick TU Max, self-adhered.
Surfacing: See General Limitations Below.

Deck Type 1: Wood, non-insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(5): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.

Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.

Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4"head lap. (for

base sheet only)

Ply Sheet: Polystick MTS or Polystick MTS Plus, self-adhered with minimum 3" horizontal laps and

minimum 6" vertical laps.

Membrane: Polystick TU P*, self-adhered.

*This 2-Ply System will only use the Waco, TX plant.

Surfacing: See General Limitations Below.



NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23 Page 6 of 12 **Deck Type 1:** Wood, non-insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(6): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.

Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.

Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4"head lap. (for

base sheet only)

Ply Sheet: Polystick MTS or Polystick MTS Plus, self-adhered with minimum 3" horizontal laps and

minimum 6" vertical laps.

Membrane: Polystick MTS or Polystick MTS Plus, self-adhered.

Surfacing: See General Limitations Below.

INSTALLATION REQUIREMENTS:

1. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose deck panels, and sweep the deck thoroughly to re move any dust and debris prior to application.

- 2. Place the underlayment over metal drip edge in accordance with RAS 111.
- 3. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release film as the membrane is applied. All side laps shall be a minimum of 3" and end laps shall be a minimum of 6". Roll the membrane into place after removing the release strip. Vertical strapping of the roof with Polystick is acceptable. Membrane shall be back nailed in accordance with applicable building code.
- 4. When applying the membrane in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in both directions.
- **5.** For ridge applications, center the membrane and roll from the center outward in both directions.
- **6.** Roll or broom the entire membrane surface so as to have full contact with the surface, giving special attention to lap areas.
- 7. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance.
- 8. All protrusions or drains shall be initially taped with a 6" piece of underlayment. The flashing tape shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of Polystick shall be applied over the underlayment.



NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23 Page 7 of 12

GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance.
- 2. Polystick TU Plus, HydraGuard Dual Pro, and HydraGuard Tile Pro may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, adhered roof tile using adhesives listed in the table below, and mechanically fastened roof tile systems and quarry slate roof assemblies.

Polystick MTS, and Polystick MTS Plus may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, mechanically fastened roof tile systems and quarry slate roof assemblies.

Polystick TU P may be used in asphaltic shingles, wood shakes and shingles, adhered roof tile using adhesives listed in the table below, and mechanically fastened roof tile systems and quarry slate roof assemblies.

Polystick IR-Xe may be used in asphaltic shingles, wood shakes and shingles, and quarry slate roof assemblies.

Polystick TU Max may be used in non-structural metal roofing, adhered roof tile using adhesives listed in the table below, and mechanically fastened roof tile systems.

Elastoflex S6 G, and Polyflex SA P may be used in adhered roof tile using adhesives listed in the table below and mechanically fastened roof tile systems.

ELASTOFLEX SA V may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, mechanically fastened roof tile systems and quarry slate roof assemblies.

Roof Tile Adhesives Approved for Use with Tile Underlayment							
	ICP Adhesive Polyset RTA-1	ICP Adhesive Polyset AH-160	DAP Storm Bond® 2 Roof Tile Adhesive	DuPont TILE BOND TM Roof Tile Adhesive			
Polystick TU Plus	yes	yes	yes	yes			
HydraGuard Dual Pro	yes	yes	yes	yes			
HydraGuard Tile Pro	yes	yes	yes	yes			
Polystick TU P	yes	yes	yes	n/a			
Polystick TU Max	yes	yes	yes	yes			
Elastoflex S6 G	yes	yes	n/a	n/a			
Polyflex SA P	n/a	yes	n/a	n/a			

- **3.** Deck requirements shall be in compliance with applicable building code.
- 4. Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V shall be applied to a smooth, clean and dry surface. The deck shall be free of irregularities.
- 5. Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V shall not be adhered directly over a pre-existing roof membrane as a recover system.



NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23

Page 8 of 12

6. Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V shall not be left exposed as a temporary roof for longer than the amount of days listed in the table below after application. Polyglass reserves the right to revise or alter product exposure times; not to exceed the preceeding maximum time limitations.

Exposure Limitations (Days)							
	Winter Haven, FL	Hazelton, PA	Waco, TX	Fernley, NV	Ponte di Piave TV, Italy		
Polystick MTS	180	180	180	180	n/a		
Polystick IR-Xe	90	90	90	n/a	n/a		
Elastoflex S6 G	180	180	n/a	n/a	n/a		
Polystick TU Plus	180	180	180	n/a	180		
Polystick TU P	180	180	180	n/a	n/a		
Polystick TU Max	180	180	180	n/a	n/a		
Polystick MTS Plus	180	180	180	180	n/a		
Polystick MU-X	180	180	n/a	180	n/a		
HydraGuard Dual Pro	180	180	180	n/a	180		
HydraGuard Tile Pro	180	180	180	n/a	180		
Polyflex SA P	180	n/a	180	n/a	n/a		
ELASTOFLEX SA V	n/a	n/a	30	30	n/a		

All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and 7. Rule 61G20-3 of the Florida Administrative Code.



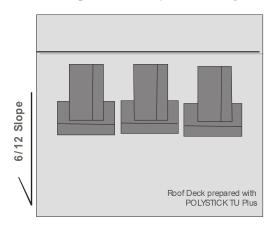
NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23 Page 9 of 12 **8.** When loading roof tiles on roof tile underlayment for (direct-to-deck) tile assemblies, the maximum roof slope shall be as follows: (See Table Below)

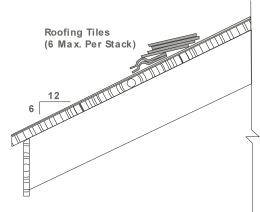
Tile Slippage Limitations for Direct-to-Deck Tile Assemblies							
Underlayment	Tile Profile	Staging Method	Maximum Slope				
Elastoflex S6 G	Flat / Profiled	Max. 6-tile stack (4 over 2)	4:12				
Polystick TU P	Flat / Profiled	Max. 6-tile stack (4 over 2)	6:12				
Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro	Flat / Profiled	Max. 6-tile stack (4 over 2)	7:12				
Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro	Flat / Profiled	Max. 10-tile stack	6:12				
Polystick TU Max	Flat / Profiled	Max. 6-tile stack (4 over 2)	6:12				
Polystick MTS, MTS Plus	Flat Tile	Max. 6-tile stack (4 over 2)	5:12				
	Profiled Tile	Max. 6-tile stack (4 over 2)	4:12				
	Profiled Tile	Max. 6-tile stack (4 over 2)	5:12				

Polystick Two-Ply Underlayment Systems						
Polystick MTS Plus with	Flat Tile	Max. 6-tile stack (4 over 2)	7:12			
Polystick TU Plus, HydraGuard Dual Pro or HydraGuard Tile Pro	Profiled Tile	Max. 6-tile stack (4 over 2)	6:12			
Polystick MTS Plus with	Flat Tile	Max. 6-tile stack (4 over 2)	7:12			
Polystick TU Max	Profiled Tile	Max. 6-tile stack (4 over 2)	6:12			
Polystick MTS Plus with	Flat Tile	Max. 6-tile stack (4 over 2)	6:12			
Polystick TU P	Profiled Tile	Max. 6-tile stack (4 over 2)	5:12			

The above slope limitations can be exceeded only by using battens in accordance with the Approved Tile System Notice of Acceptance and applicable Florida Building Code requirements. When battens are required, they shall be utilized during loading and installation of tiles.

9. Care should be taken during the loading procedure to keep foot traffic to a minimum and to avoid dropping of tile directly on the underlayment. Refer to Polyglass' Tile loading detail below for loading procedure – two tiles laid perpendicular to slope followed by a maximum four tile stack parallel to the slope, for a total of 6 tiles.







NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23 Page 10 of 12 Refer to prepared roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products. Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V may be used with any approved roof covering Notice of Acceptance listing Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V as a component part of an assembly in the Notice of Acceptance. If Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V are not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Section for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.



NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23 Page 11 of 12

POLYGLASS GENERAL APPLICATION GUIDELINES FOR POLYSTICK MEMBRANES PLEASE CHECK WITH LOCAL BUILDING CODES REGARDING LIMITATIONS OF SPECIFIC APPLICATIONS. LOCAL CODES MAY SUPERSEDE POLYGLASS REQUIREMENTS AND RECOMMENDATIONS.

- 1. Polyglass does accept the direct application of Polystick underlayment membranes to wood decks. Installers are cautioned to refer to applicable local building codes prior to direct deck installation to ensure this is acceptable. Please also refer to applicable Product Data Sheets of the corresponding products.
- 2. All rolls, with the exception of Polystick TU Plus, HydraGuard Dual Pro or HydraGuard Tile Pro should be backnailed in selvage edge seam as per Polyglass Back Nailing Guide. Nails shall be, 11 gauge ring shank type, applied with a minimum 1 5/8" metal disk as required in Miami-Dade County or simplex type nail as otherwise allowable in other regions, at a minimum rate of 12" o.c. Polystick TU Plus, HydraGuard Dual Pro or HydraGuard Tile Pro should be back nailed in designated area marked "nail area, area para clavar" on the face of membrane, with the above stated nails and/or disks. The head lap membrane is to cover the area being backnailed. (Please refer to applicable local building codes prior to installation.)
- 3. All seal lap seams (selvage laps) must be rolled with a hand roller to ensure full contact.
- 4. All fabric over fabric; and granule over granule end laps, shall have a 6" wide, uniform layer of Polyglass POLYPLUS 50, XtraFlex 50 Premium Modified Wet/Dry Cement or Polyglass PG 500 applied in between the application of the lap. The use of mastic between the laps does not apply to Polystick MTS.
- 5. A maximum of 6 tiles per stack are allowed when loading tile on the underlayments. Refer to the Polyglass Tile Loading Guidelines. See General Limitations #8 and #9.
- 6. Battens and/or Counter-battens, as required by the tile manufacturers NOA, must be used on all projects for pitch/slopes of 7"/12" or greater. It is suggested that on pitch/slopes in excess of 6 ½"/12", precautions should be taken, such as the use of battens to prevent tile sliding during the loading process.
- 7. Minimum cure time after membrane installation & before loading of roofing tiles is Forty-Eight (48) Hours.
- **8.** Polystick membranes may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details.
- 9. Repair of Polystick membranes is to be accomplished by applying Polyglass POLYPLUS 50, XtraFlex 50 Premium Modified Wet/Dry Cement or Polyglass PG 500 to the area in need of repair, followed by a patch of the Polystick material of like kind should be set and hand rolled in place over the area needing such repair. Patching membrane shall be a minimum of 6 inches in either direction. The repair should be installed in such a way so that water will run parallel to or over the top of all laps of the patch.
- 10. All self-adhered membranes must be rolled to ensure full contact with approved substrates. Polyglass requires a minimum of 35 lbs for a weighted roller for the rolling of the field membrane. Hand rollers are acceptable for rolling of patches or small areas of the roof. Brooming may be used where slope prohibits rolling.
- 11. All approved substrates should be dry, clean and properly prepared, before any application of Polystick membranes commences. An approved substrate technical bulletin can be furnished upon request. It is recommended to refer to applicable building codes prior to installation to verify acceptable substrates.
- 12. The Polyglass Miami-Dade Notice of Acceptance (NOA) approval for Polystick membranes can be furnished upon request by our Technical Services Department by calling 1 (800) 894-4563.
- 13. Questions in regards to the application of Polyglass products should be directed to our Technical Services Department at 1 (800) 894-4563.
- 14. Polyglass recommends that applicators follow good roofing practices and applicable procedures as outlined by the National Roofing Contractors Association (NRCA).

PLEASE CHECK WITH LOCAL BUILDING CODES REGARDING LIMITATIONS OF SPECIFIC APPLICATIONS.

LOCAL CODES MAY SUPERSEDE POLYGLASS REQUIREMENTS AND RECOMMENDATIONS

END OF THIS ACCEPTANCE



NOA No.: 22-1221.01 Expiration Date: 09/13/27 Approval Date: 04/06/23 Page 12 of 12