

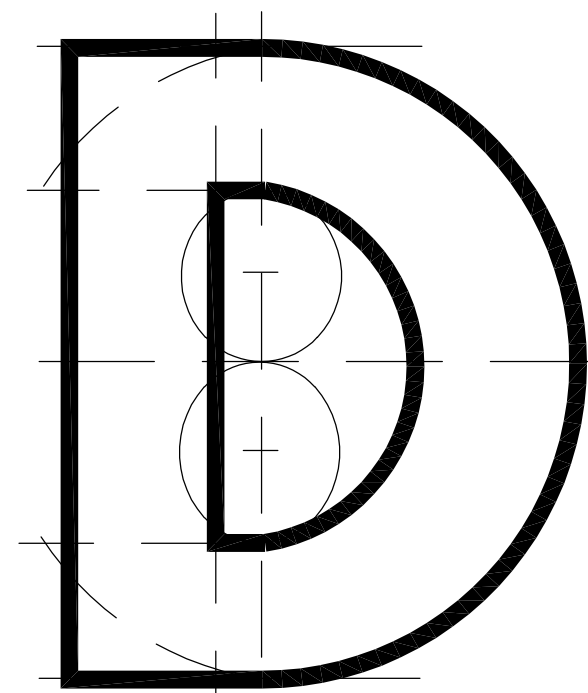
JONES' PIER CONSERVATION AREA
 HISTORIC RESIDENCE REHABILITATION TO
 HISTORIC MUSEUM

7770 JUNGLE TRAIL
 VERO BEACH, FLORIDA 32963

FOR

INDIAN RIVER COUNTY PARKS DIVISION
 INDIAN RIVER COUNTY, FLORIDA

August 18, 2023
 BID PACKAGE



DONADIO
 & Associates, Architects P.A.

A Spiezle Group Inc. Company



SPIEZLE ARCHITECTURAL GROUP, INC

2001 9th AVENUE, SUITE 308
 VERO BEACH, FL 32960

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 T.E. SCHLITT ENGINEERINGS
 1555 Indian River Blvd., Suite B-145
 Vero Beach, Florida 32960
 Tel.: 772-360-4998
 info@schlittengineering.com

MECHANICAL & ELECTRICAL ENGINEER
 KAMM CONSULTING, INC.
 1408 Orange Ave
 Ft. Pierce, FL 34950
 Tel.: 772/595-1744
 Fax.: 772/595-1745

INDEX OF DRAWINGS

I/O	Dwg. No	Drawing Name
<input checked="" type="checkbox"/>	A0.10	COVER SHEET/INDEX OF DRAWINGS

ARCHITECTURAL DRAWINGS

I/O	Dwg. No	Drawing Name
<input checked="" type="checkbox"/>	A0.10	SITE PLAN
<input checked="" type="checkbox"/>	EC2.10	EXISTING CONDITIONS
<input checked="" type="checkbox"/>	D2.10	DEMOLITION PLAN
<input checked="" type="checkbox"/>	A2.10	FLOOR PLAN, SECTIONS & DETAILS
<input checked="" type="checkbox"/>	A2.30	ENLARGED PLANS & DETAILS
<input checked="" type="checkbox"/>	EC3.10	EXISTING ELEVATIONS
<input checked="" type="checkbox"/>	A3.10	PROPOSED ELEVATIONS
<input checked="" type="checkbox"/>	A4.10	PROPOSED ROOF PLAN
<input checked="" type="checkbox"/>	A6.10	SCHEDULES

STRUCTURAL DRAWINGS

I/O	Dwg. No	Drawing Name
<input checked="" type="checkbox"/>	1 of 7	STRUCTURAL NOTES
<input checked="" type="checkbox"/>	2 of 7	FOUNDATION PLAN
<input checked="" type="checkbox"/>	3 of 7	FLOOR FRAMING PLAN
<input checked="" type="checkbox"/>	4 of 7	STRUCTURAL FLOOR PLAN & ROOF FRAMING PLAN
<input checked="" type="checkbox"/>	5 of 7	STRUCTURAL PIERS & DETAILS
<input checked="" type="checkbox"/>	6 of 7	STRUCTURAL SECTIONS & DETAILS
<input checked="" type="checkbox"/>	7 of 7	STRUCTURAL CROSS SECTION & DETAILS

MECHANICAL DRAWINGS

I/O	Dwg. No	Drawing Name
<input checked="" type="checkbox"/>	M0.1	MECHANICAL NOTES
<input checked="" type="checkbox"/>	M2.1	MECHANICAL PLAN
<input checked="" type="checkbox"/>	M6.1	MECHANICAL SCHEDULES

ELECTRICAL DRAWINGS

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<input checked="" type="checkbox"/>	E2.1	LIGHTING PLAN
<input checked="" type="checkbox"/>	E3.1	POWER PLAN

PLUMBING DRAWINGS

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<input checked="" type="checkbox"/>	P0.1	PLUMBING NOTES
<input checked="" type="checkbox"/>	P2.1	PLUMBING PLANS
<input checked="" type="checkbox"/>	P3.1	WATER PLAN

HISTORIC
RESIDENCE
MUSEUM

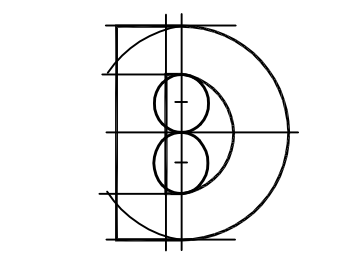
7770 Jungle Trail
Vero Beach FL 32963
for
Indian River County Parks
Division

Key Plan:

Issues:

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

Architects:



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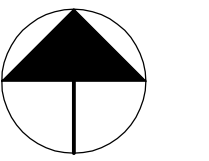


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Consultant:

Drawing Title:
HISTORIC MUSEUM
SITE PLAN

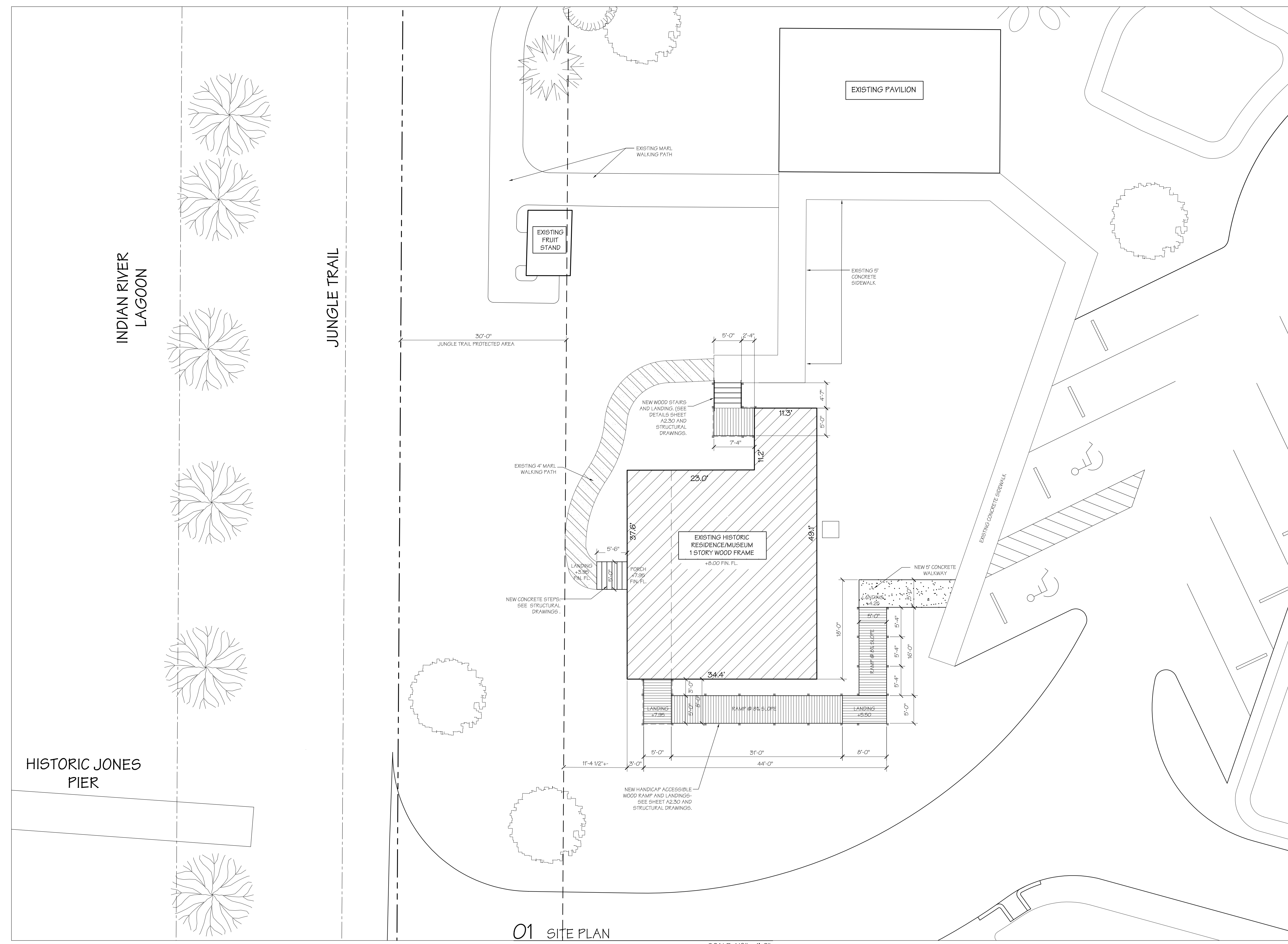
Reference North



Dwn:	JLH	Dwg. File:
Chd:	TD	XREF File:
Project No.:	2018-23.03	Plot File:
Sheet No.:	spiezle: 21Z015	

Cert. No.: 12,456

Date Signed: AS 2.10



01 SITE PLAN

SCALE: 1/8" = 1'-0"

ABBREVIATIONS:

Table with 4 columns: Abbreviation, Description, Material, and Notes. Includes items like AB ANCHOR BOLT, AFF ABOVE FINISHED FLOOR, etc.

SITE WORK:

- 1. SOIL: ALL WORK SHALL CONFORM TO THE FINAL GEOTECHNICAL REPORT AND THE FINAL GRADING PLAN... 2. SOIL TREATMENT: TERMITES PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES...

CONCRETE:

- 1. MATERIALS: ALL WORK SHALL BE MIXED, PLACED, AND CURED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE ACI 318... 2. TESTING AND SAMPLING: ALL TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY...

- 3. GROUT: GROUT SHALL BE IN ACCORDANCE WITH ASTM C476... 4. REINFORCING: REINFORCING SHALL HAVE GRADE IDENTIFICATION MARKS AND SHALL CONFORM TO ASTM A615, GRADE 60...

- 5. PLACEMENT AND FINISHING: ALL CONCRETE PLACED UNDER ROOF PROTECTION SHALL BE PLACED OVER 6 MIL POLYETHYLENE VAPOR BARRIER... REINFORCING SHALL BE PLACED WITHIN THE SLUMP LIMITS SPECIFIED IN THE DESIGN MIX...

- MASONRY: 1. MATERIALS: ALL HOLLOW LOAD BEARING CONCRETE BLOCK SHALL CONFORM TO ASTM C90... 2. EXECUTION: ALL CONCRETE MASONRY UNITS SHALL BE LAID IN FULL SETTING BED AND IN RUNNING BOND...

WOOD FRAMING COMPONENTS:

- LUMBER: 1. MATERIALS: ALL WOOD AND WOOD CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS AND CODES... 2. EXECUTION: WOOD FASTENING SHALL BE SPECIFIED IN THE DRAWINGS...

- FASTENERS: 1. MATERIALS: WOOD CONNECTORS AND HOLD-DOWNS SHALL BE AS SPECIFIED IN THE DRAWINGS... 2. EXECUTION: HANGARS AND FRAMED COMPONENTS SHALL BE FURNISHED BY THE MANUFACTURER...

COMPONENTS AND CLADDING WIND PRESSURE FOR ROOF SHEATHING (PSF). Table with columns: Zone, ASD, Nail Spacing, and O.C.

PROJECT NUMBER:

19B013

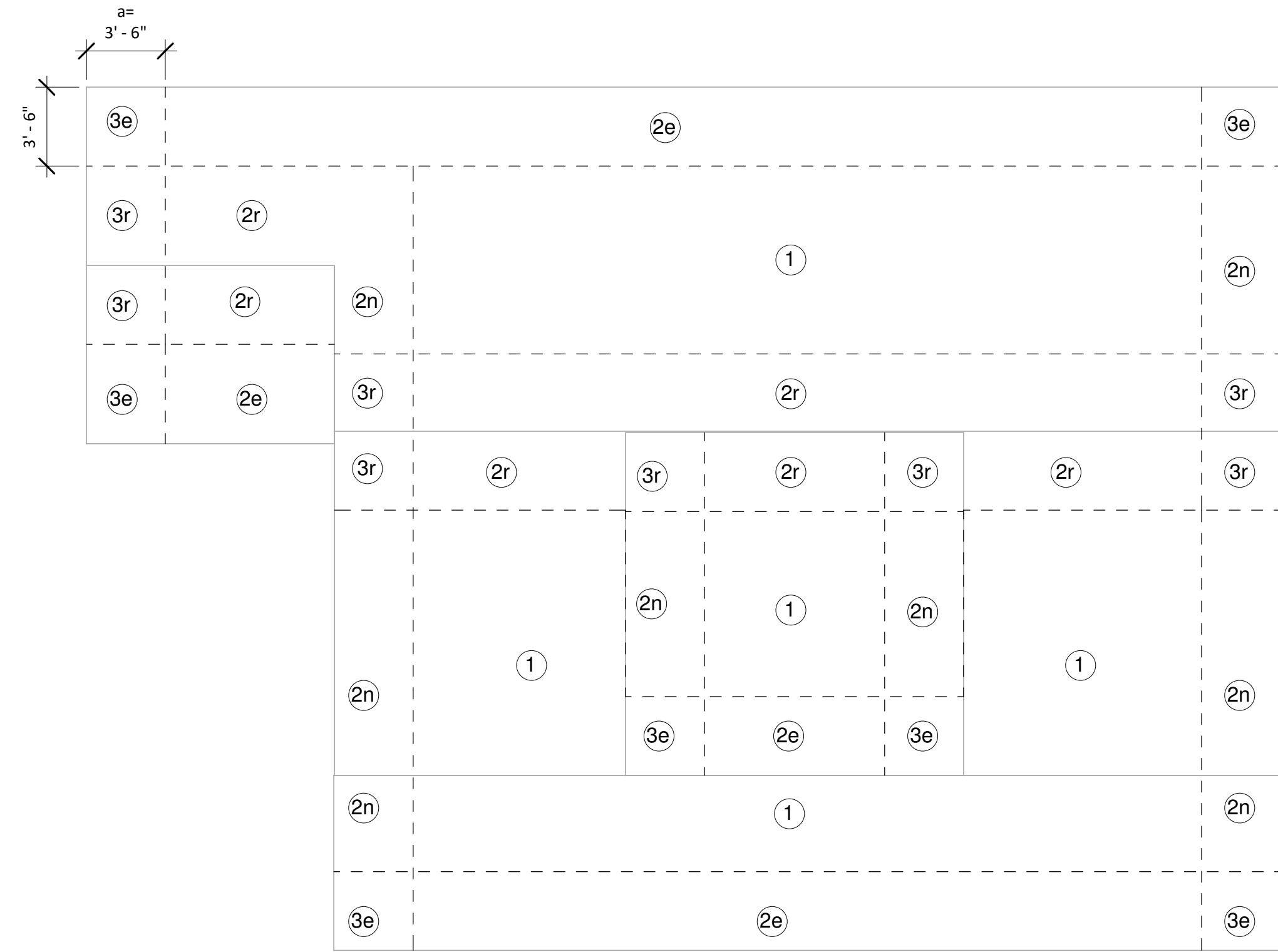
Table with columns: No., Date, Description. Includes entries for 08/17/2023, REVIEW SET, AM, TS.

ISSUE DATE: 08/17/2023, STATUS: REVIEW SET, DRAWN BY: AM, REVIEWED BY: TS

Sheet List table with columns: Page No, Sheet Name, Sheet Number. Lists sheets 1 through 7.

STRUCTURAL ENGINEERING SCOPE OF WORK: 1. BUILD NEW RAMPS, AND STAIRS PER THE STRUCTURAL PLANS AND ARCHITECTURAL PLANS. 2. REINFORCE THE ROOF FRAMING SYSTEM TO INCREASE THE WIND RESISTANCE STRENGTH PER THE PLANS.

- GENERAL NOTES: 1. 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... 2. DESIGN CRITERIA: ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 318 AND 332... 3. DESIGN LOADS: FLOOR LOADING: DEAD LOAD (DECK AND RAMPS) 10 PSF... 4. STRUCTURE SPECIFICATION: BUILDING OCCUPANCY CATEGORY: II... 5. PROJECT REQUIREMENTS: THESE PLANS SHALL REMAIN ON THE PROJECT AT ALL TIMES.



Roof Zone Plan 3/16" = 1'-0"

Florida Product Approval Listings table with columns: Category - Subcategory, Approval Number, Manufacturer, Model Number, Building Design Pressures, Product Design Pressures.

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.

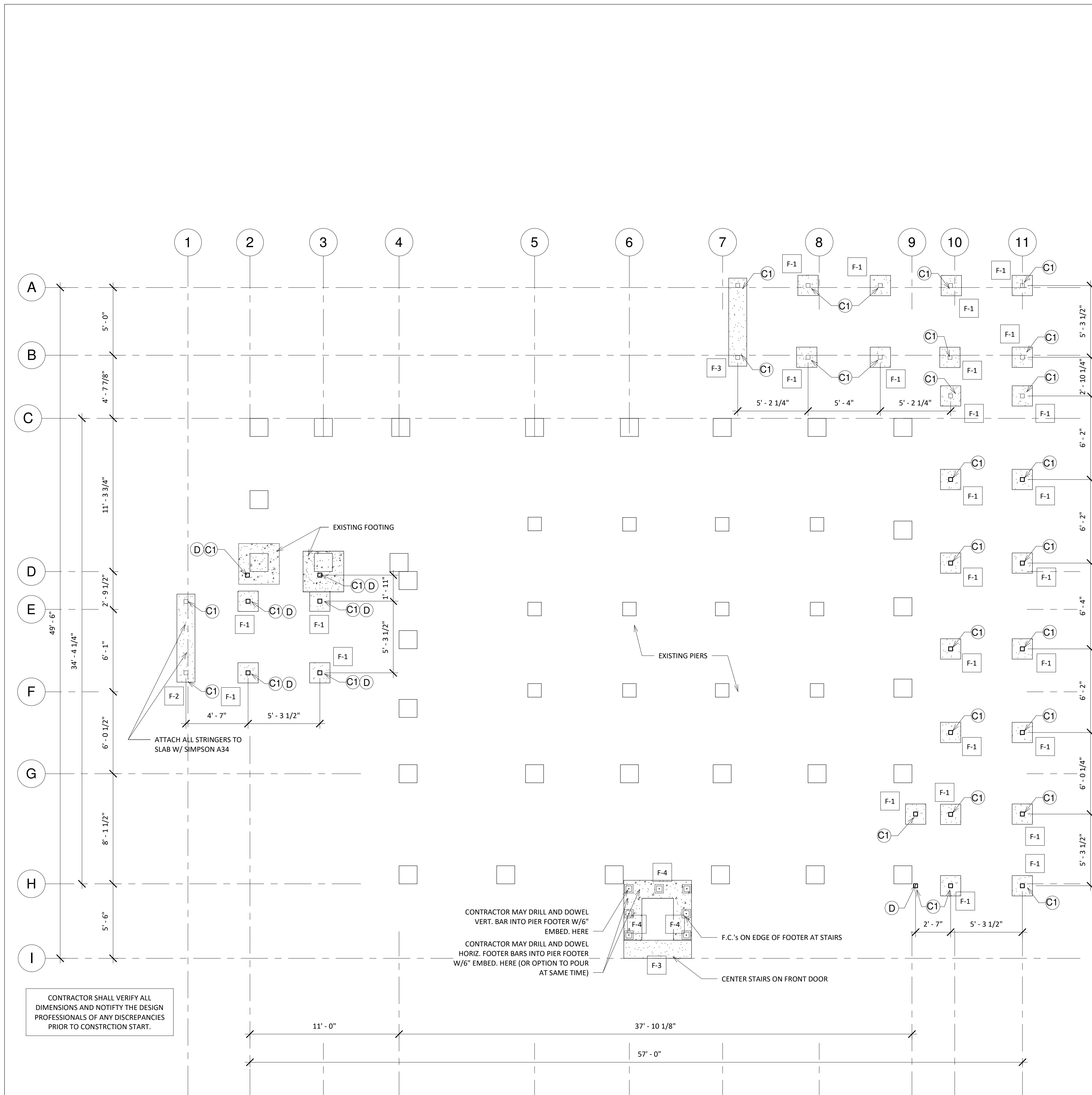
COL 3:1 2-1 7



JONES PIER HISTORIC BLG. FLOOR FRAMING 7770 JUNGLE TRAIL INDIAN RIVER COUNTY, 32963 VERO BEACH, FL

Structural Notes

SO.10



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	(8) 0.162" Diam. x 3.5" Nails	875 lbs	2,490 lbs	Simpson or Equal
L - Hanger - (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 Schedule

Mark	WxDxL	Type	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

Column Schedule

Mark	Type	Size	Reinforcement
C1	Wood - SYP P.T. Post	4x4	See Detail
C2	Wood - SYP Built Up Post	(2) 2x4	

- Foundation Legend**
1/4" = 1'-0"
- F-1 COLUMN FOOTER - SEE SCHEDULE
 - C1 COLUMN - SEE SCHEDULE
 - P-1 PAD - SEE SCHEDULE
 - STEP DOWN IN ELEVATION
 - #5 BAR VERTICAL IN FILLED CELL
 - #5 BAR VERTICAL IN STEM WALL CELL

1
S1.10 Foundation Plan
1/4" = 1'-0"

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

PROJECT NUMBER:
19B013

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STATUS: REVIEW SET
DRAWN BY: AM
REVIEWED BY: TS

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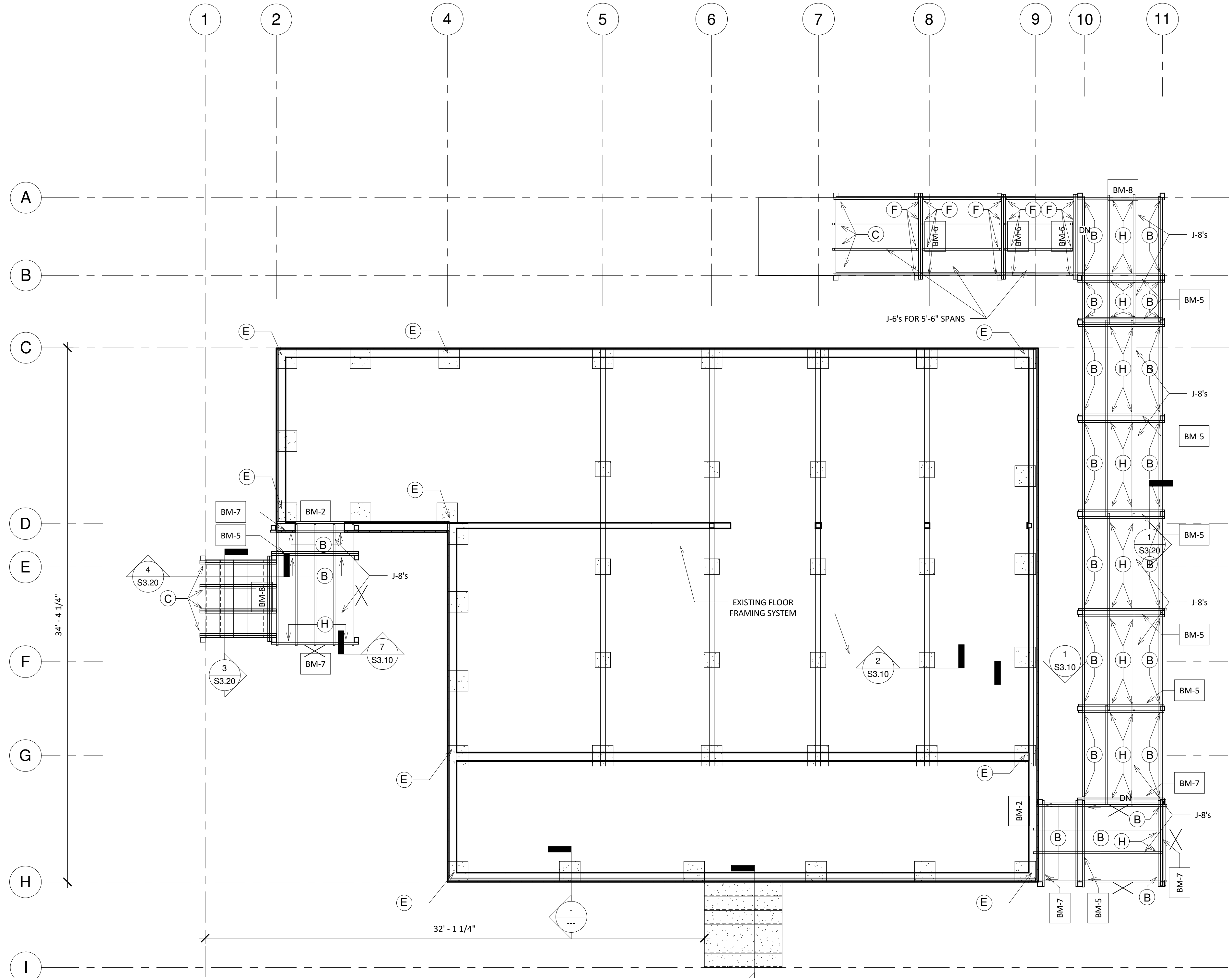
JONES PIER HISTORIC BLDG.
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VERO BEACH, FL
INDIAN RIVER COUNTY, 32963

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
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J-6	2x6	P.T. SYP Joist
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CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND NOTIFY THE DESIGN PROFESSIONALS OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION START.

- 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
- J-1 JOIST - SEE SCHEDULE

Framing Legend
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- RAMP AND STAIRS
100 PSF LIVE LOAD
- OFFICE / BUSINESS USE
60 PSF LIVE LOAD
- MUSEUM / GENERAL ASSEMBLY USE
100 PSF LIVE LOAD

Floor Capacities
3/8" = 1'-0"

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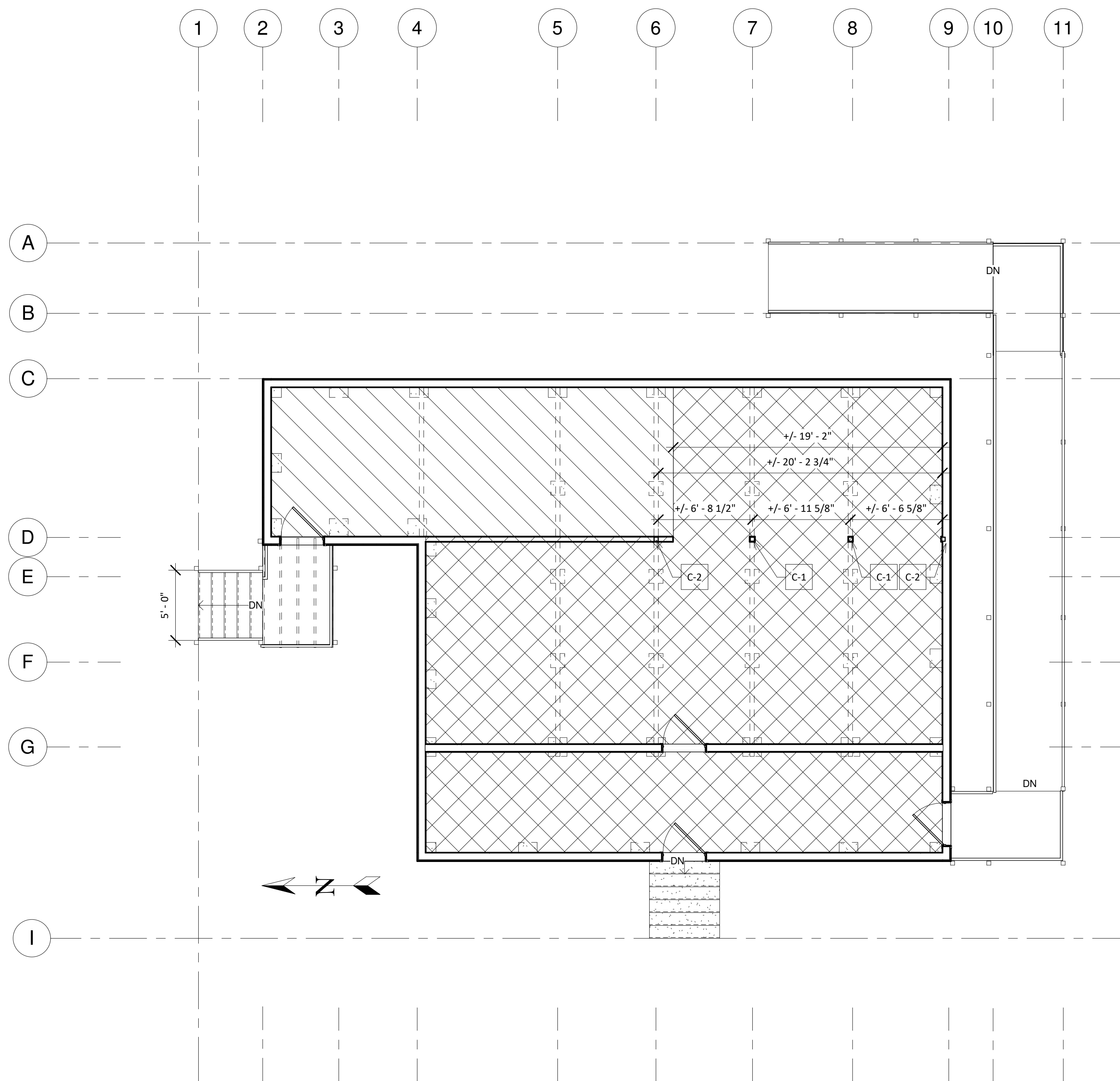
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Beam/Joist Schedule

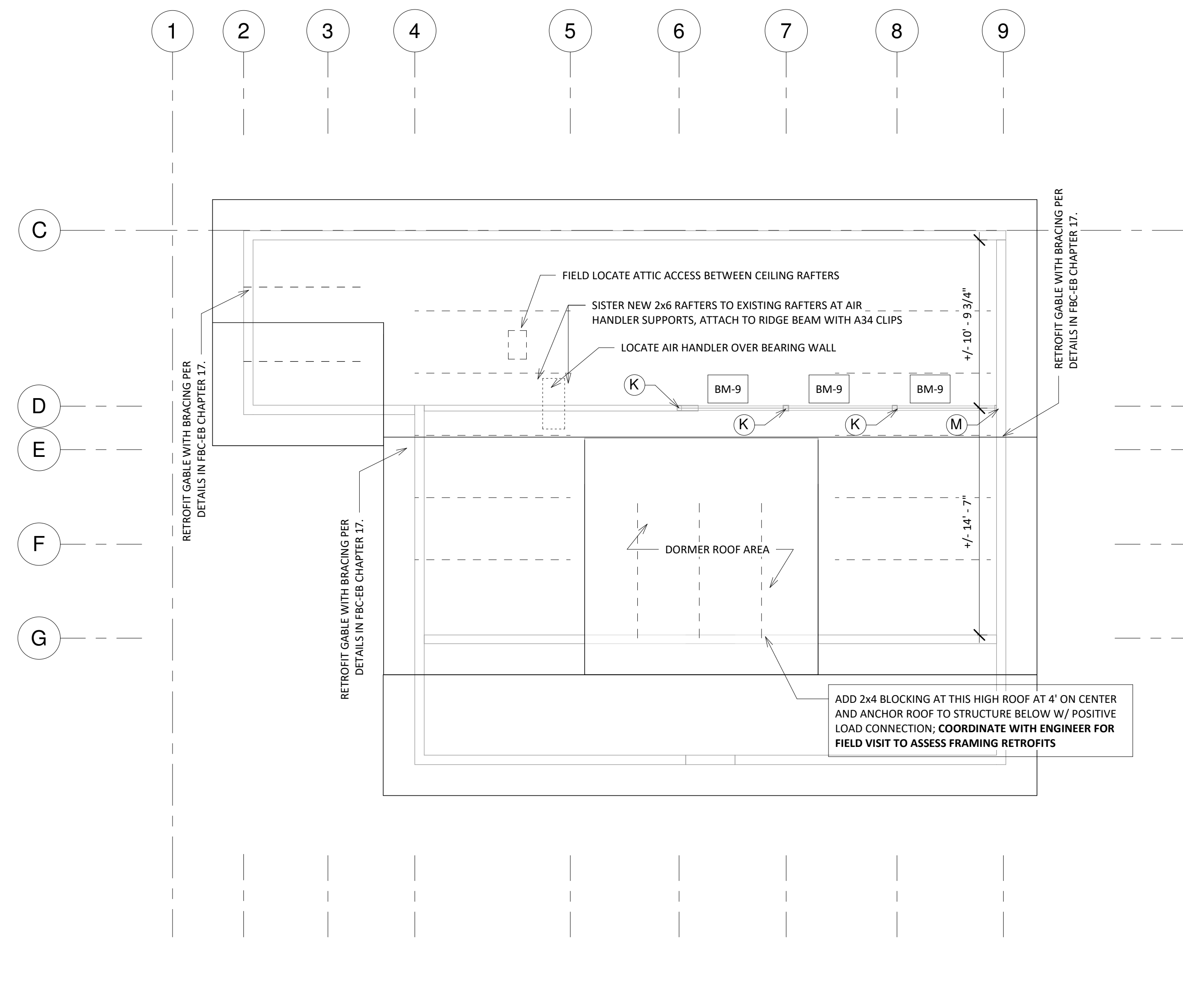
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Column Schedule

Mark	Type	Size	Reinforcement
C1	Wood - SYP P.T. Post	4x4	See Detail
C2	Wood - SYP Built Up Post	(2) 2x4	See Detail



2 Proposed Floor Plan Loading - STR
3/16" = 1'-0"



1 Roof Framing Plan
3/16" = 1'-0"

PROJECT NUMBER:
19B013

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DRAWN BY: AM/ZN
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INDIAN RIVER COUNTY, 32963

Structural Floor Plan
and Roof Framing Plan

S2.10

4 OF 7

No.	Description	Date

ISSUE DATE:	08/17/2023
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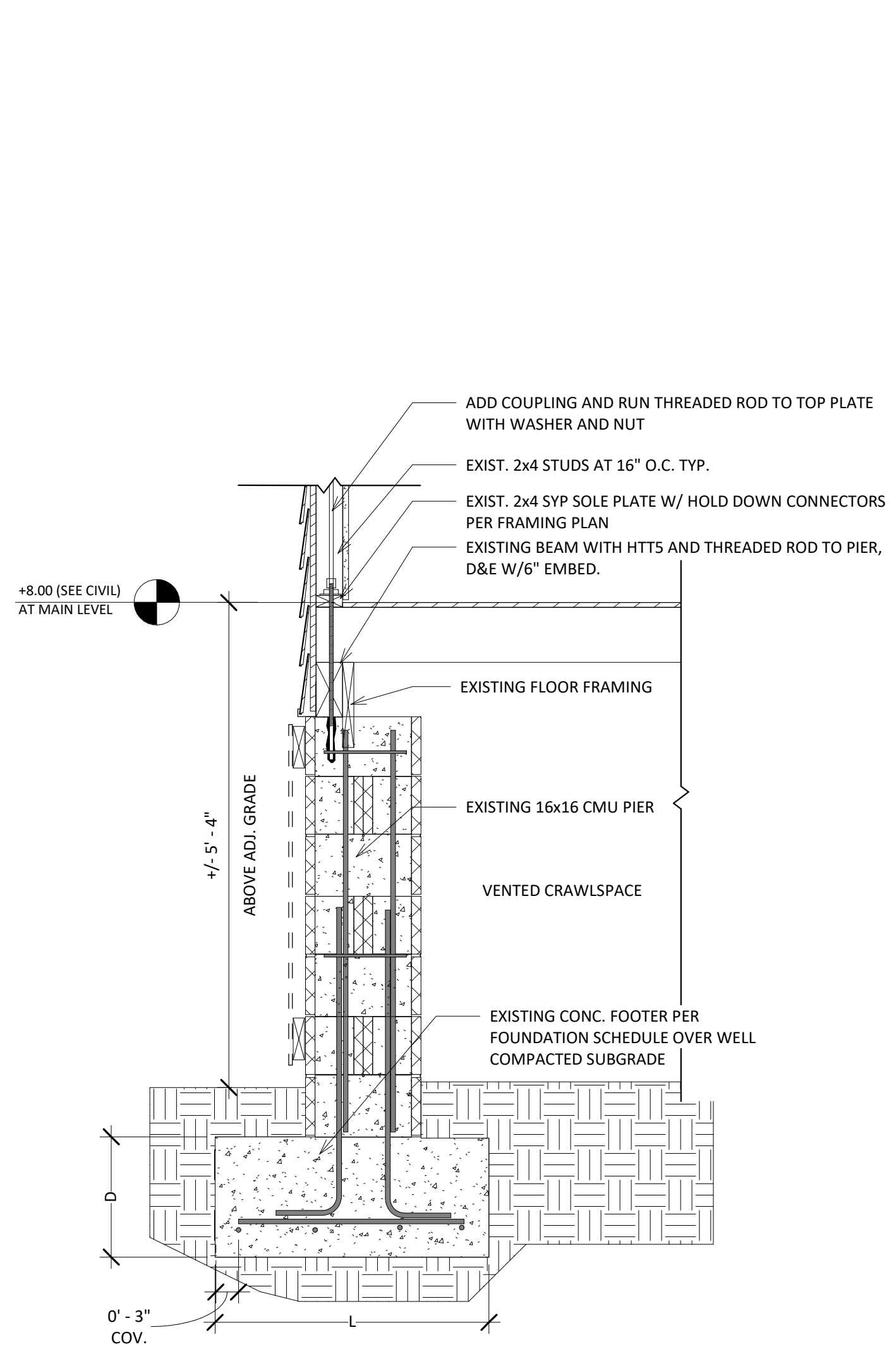
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Structural Pier Sections
and Details

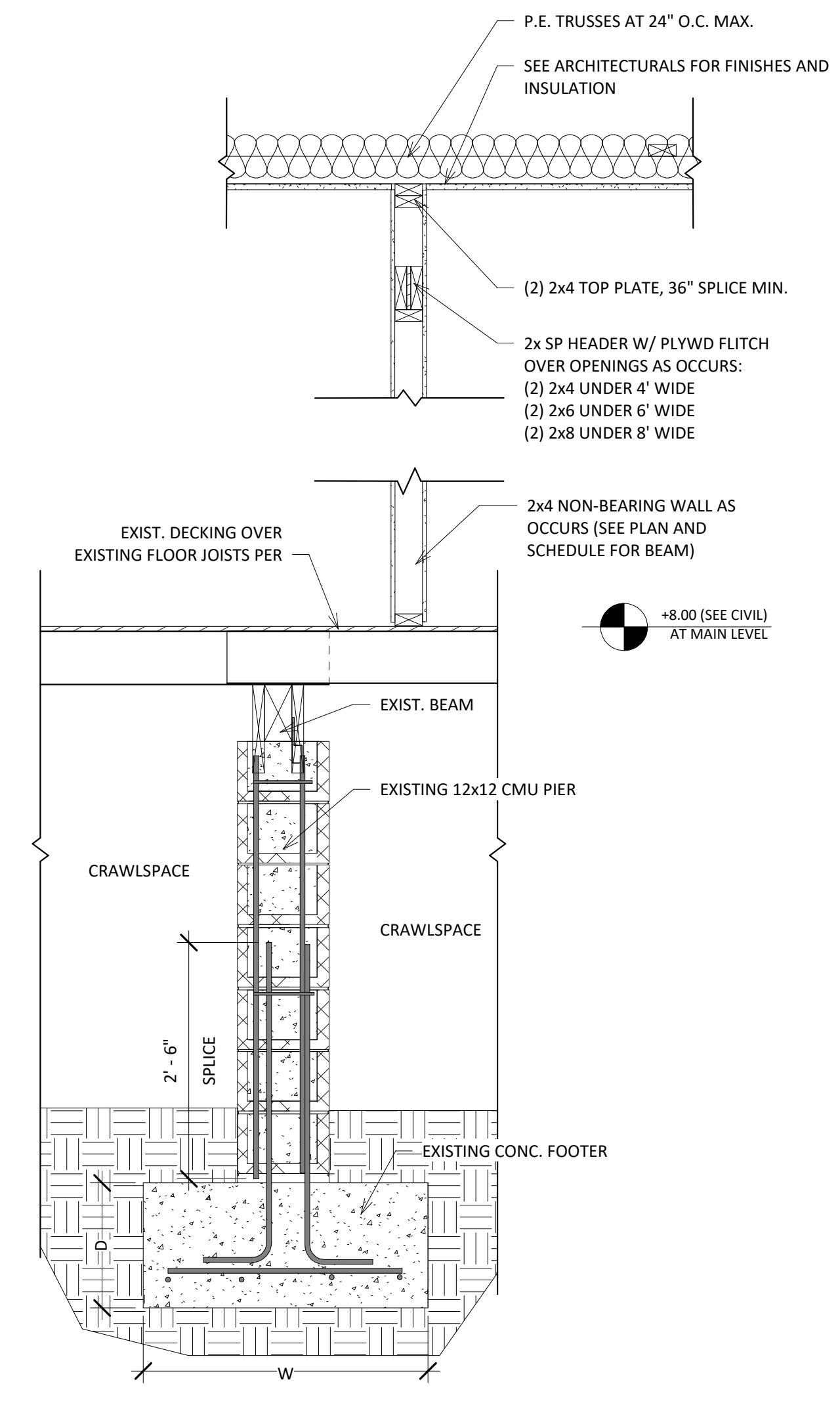
S3.10

5 OF 7

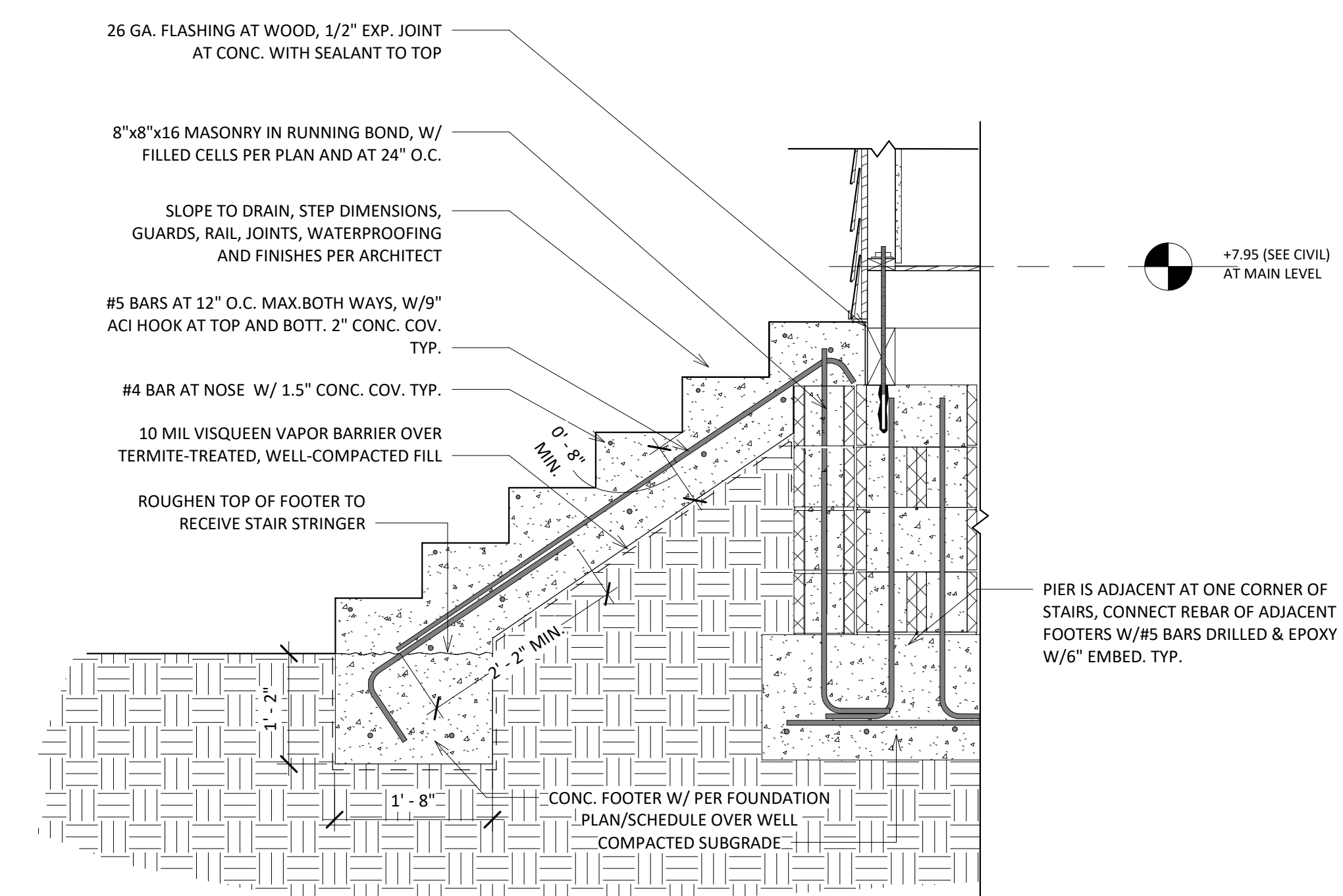
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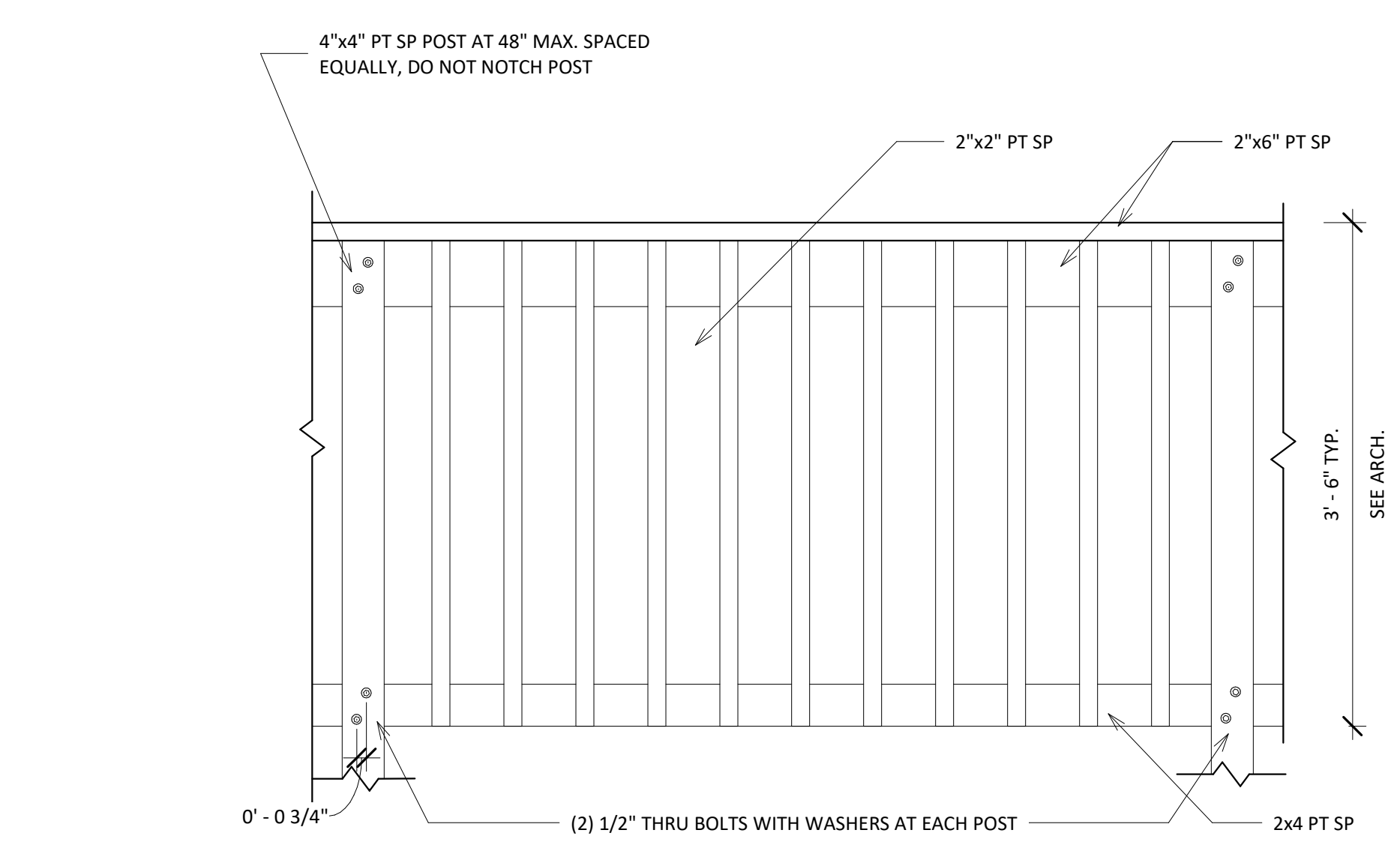
1 Pier Found. w/ Wood Wall Section - A
S3.10 3/4" = 1'-0"



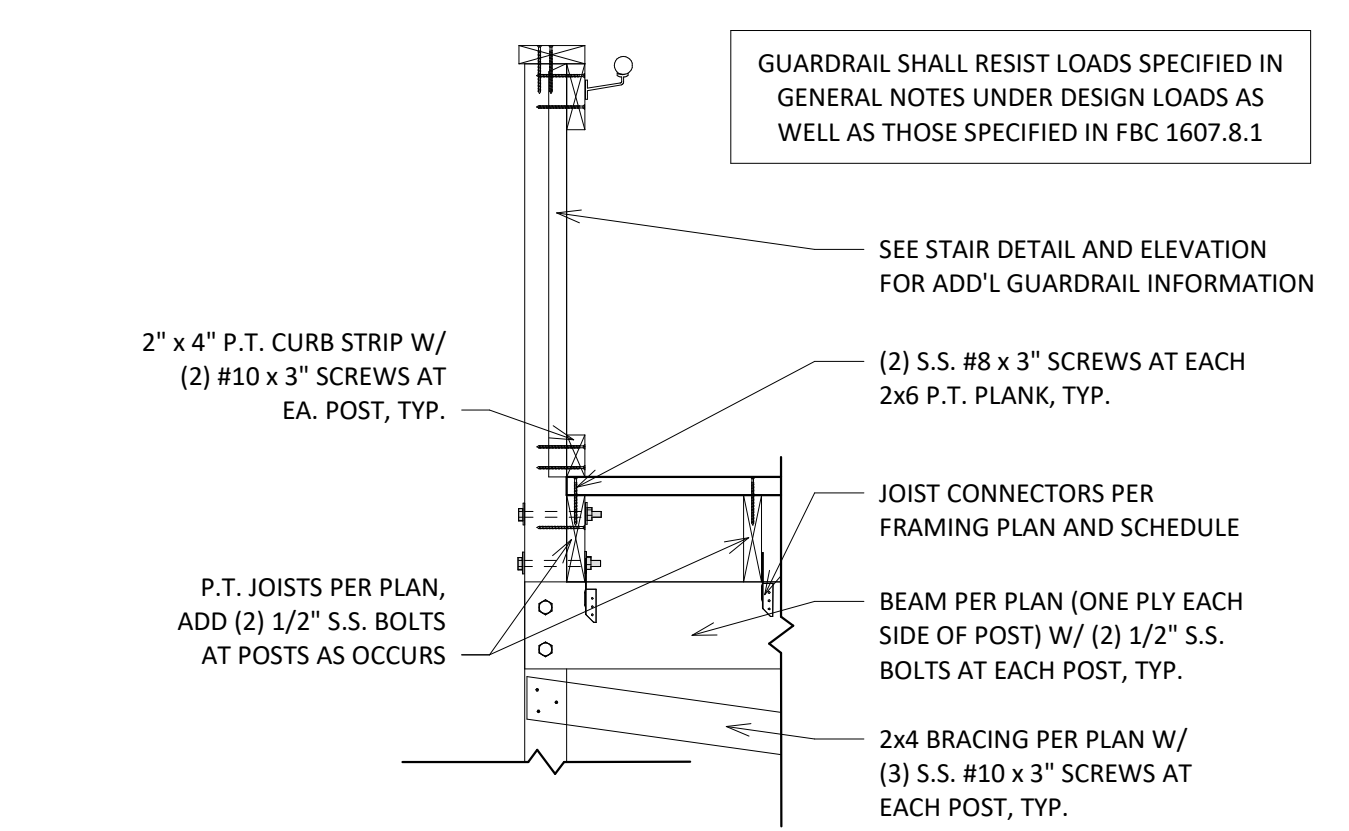
2 Pier Found. Detail W/ Int. Wall Section
S3.10 3/4" = 1'-0"



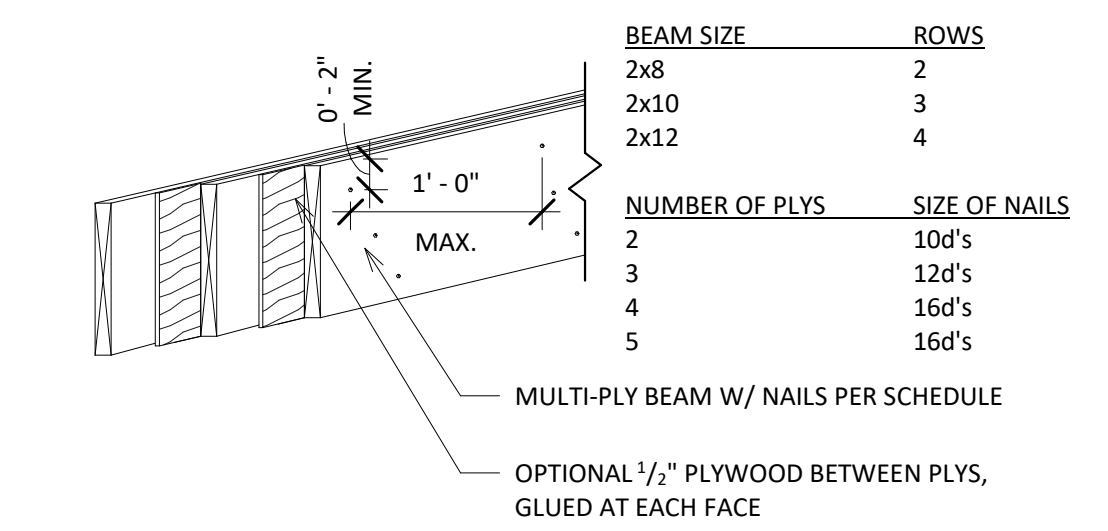
3 Concrete Stair Section
S3.10 3/4" = 1'-0"



6 Guardrail Elevation
S3.10 1" = 1'-0"



7 Ramp Section
S3.10 3/4" = 1'-0"

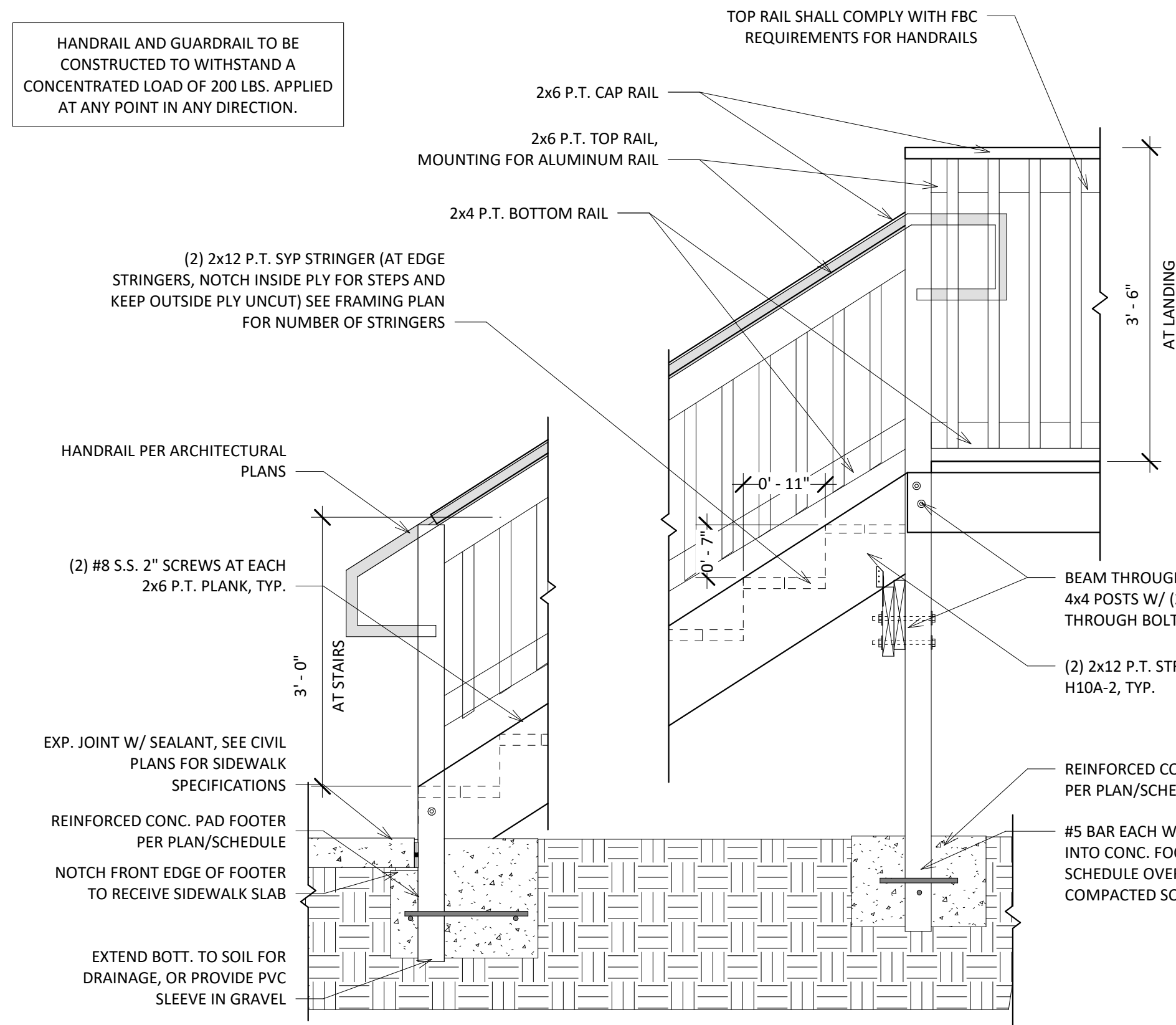


5 Multi Ply Beam Detail
S3.10 1" = 1'-0"

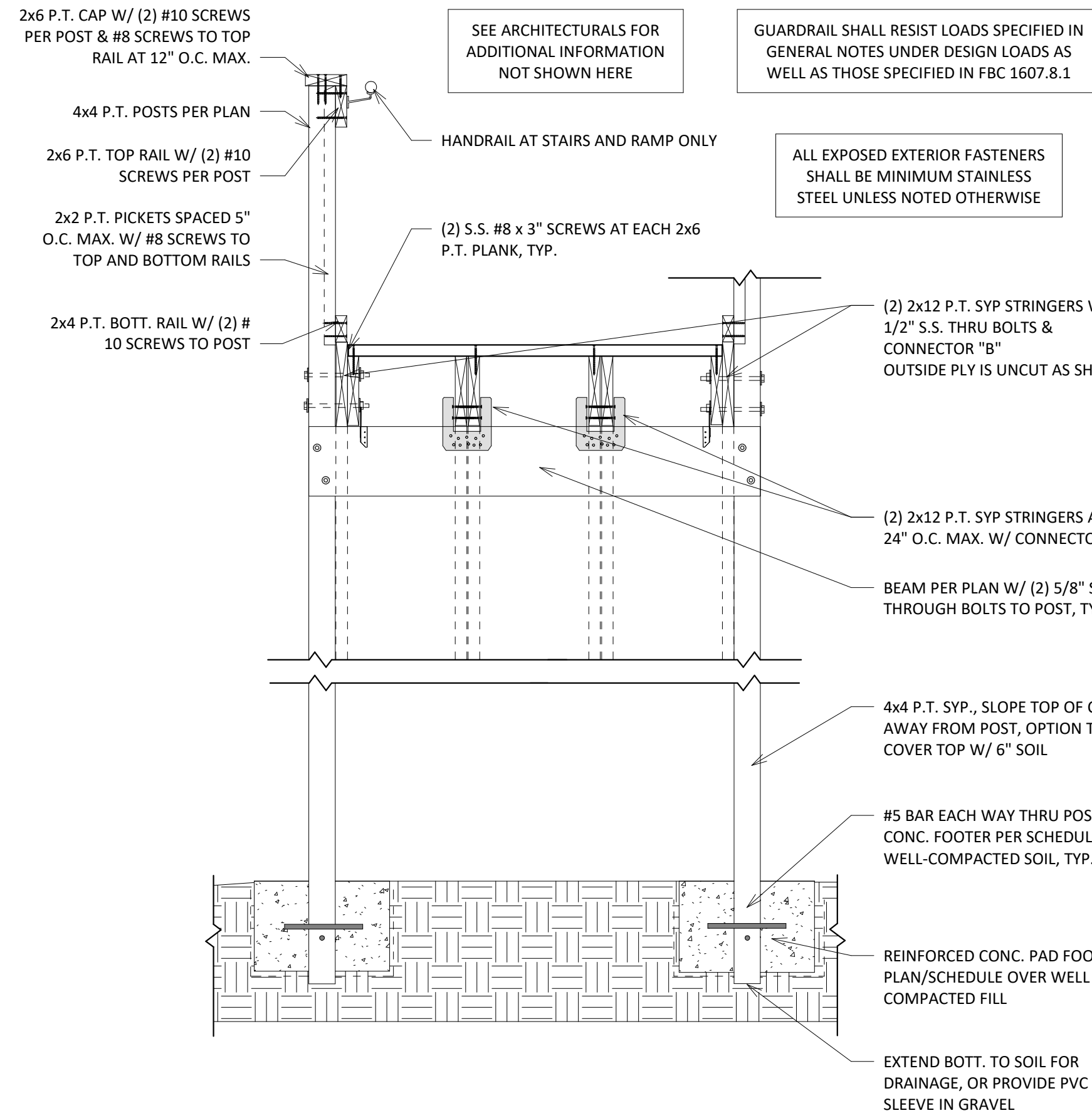
BEAM SIZE	ROWS
2x8	2
2x10	3
2x12	4

NUMBER OF PLYS	SIZE OF NAILS
2	10d's
3	12d's
4	16d's
5	16d's

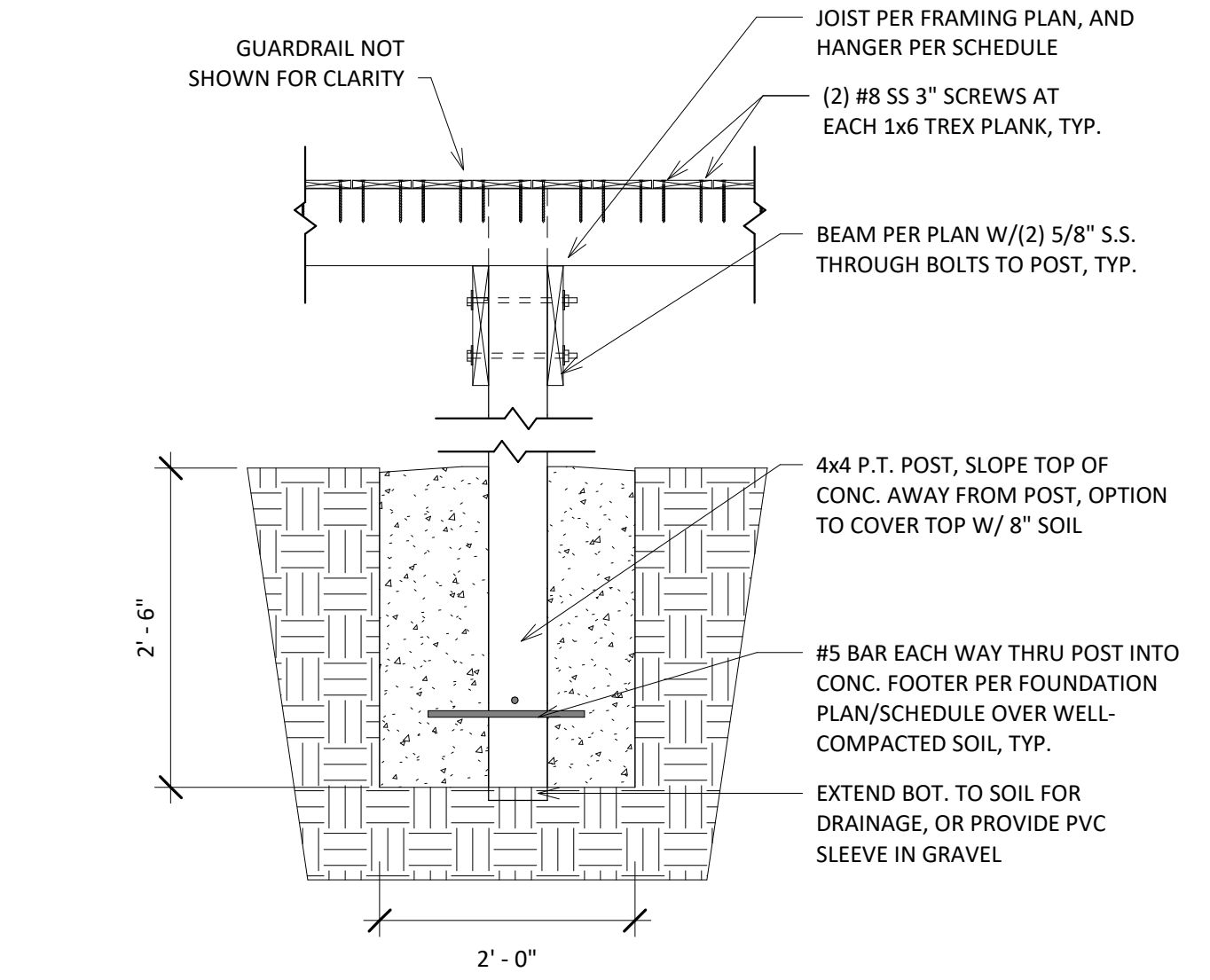
HANDRAIL AND GUARDRAIL TO BE CONSTRUCTED TO WITHSTAND A CONCENTRATED LOAD OF 200 LBS. APPLIED AT ANY POINT IN ANY DIRECTION.



4 Structural Stair Section
3/4" = 1'-0"



3 Inside Stringer Stair Detail
3/4" = 1'-0"



1 4x4 Post at Ramp
3/4" = 1'-0"

PROJECT NUMBER:
19B013

No.	Date	Description

ISSUE DATE:	08/17/2023
STATUS:	REVIEW SET
DRAWN BY:	AM/ZN
REVIEWED BY:	TS

COL 3:12-17

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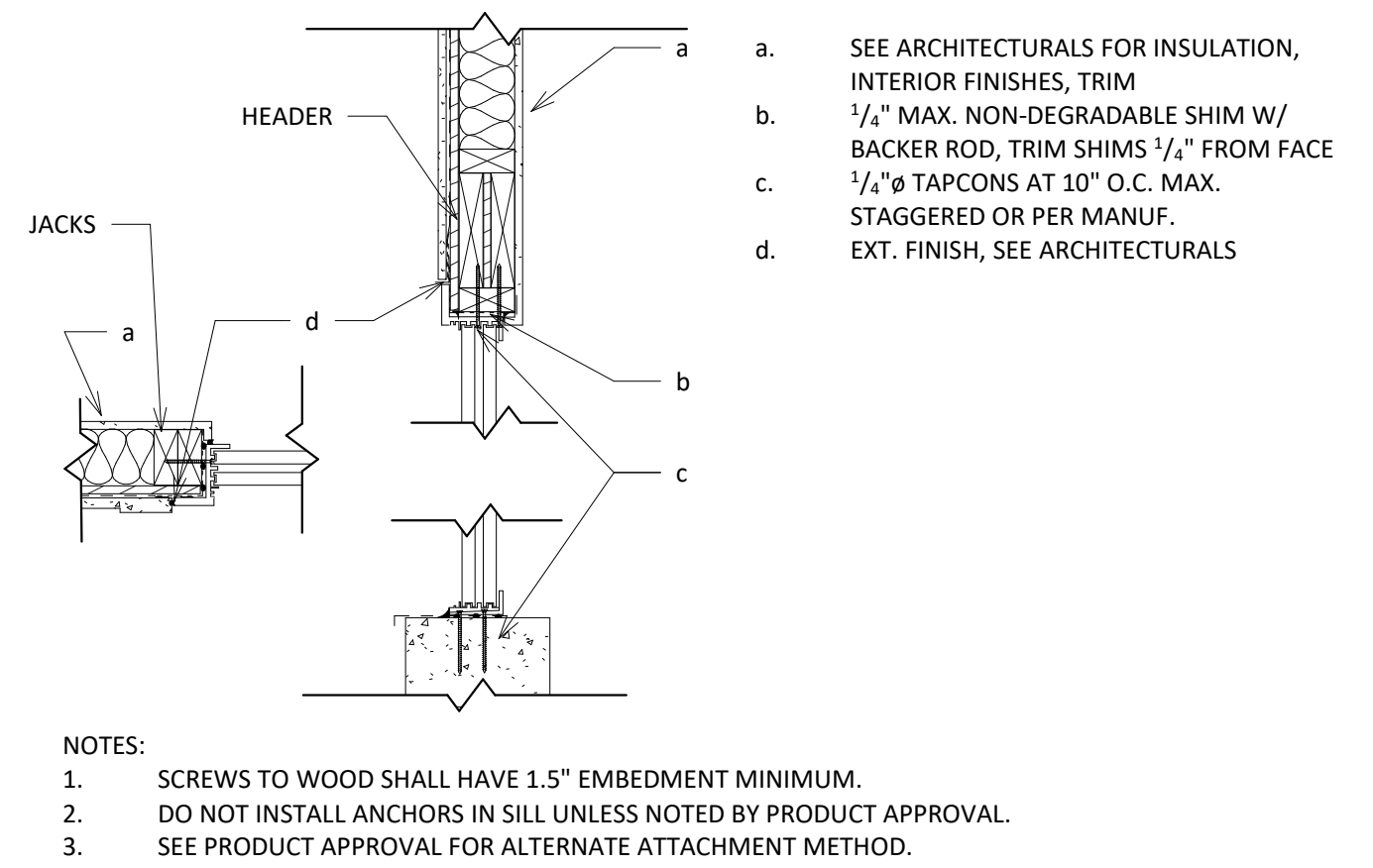
JONES PIER HISTORIC BLG.
FLOOR FRAMING
7770 JUNGLE TRAIL
VERO BEACH, FL
INDIAN RIVER COUNTY, 32963

Structural Sections and
Details 2

53.20

6 OF 7

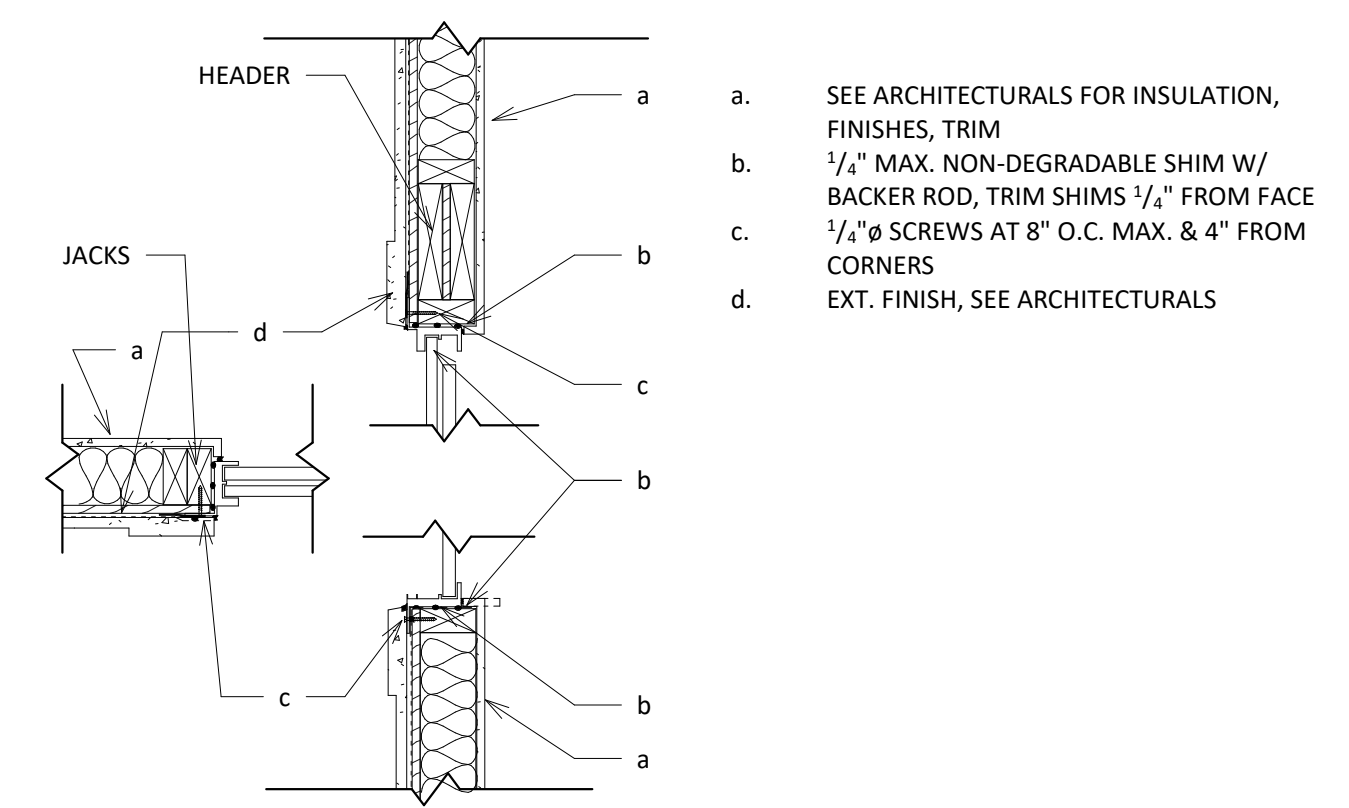
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8/18/2023 9:53:01 AM



- a. SEE ARCHITECTURALS FOR INSULATION, INTERIOR FINISHES, TRIM
- b. 1/2" MAX. NON-DEGRADABLE SHIM W/ BACKER ROD, TRIM SHIMS 1/2" FROM FACE
- c. 1/2" Ø TAPCONS AT 10" O.C. MAX. STAGGERED OR PER MANUF.
- d. EXT. FINISH, SEE ARCHITECTURALS

- NOTES:
1. SCREWS TO WOOD SHALL HAVE 1.5" EMBEDMENT MINIMUM.
 2. DO NOT INSTALL ANCHORS IN SILL UNLESS NOTED BY PRODUCT APPROVAL.
 3. SEE PRODUCT APPROVAL FOR ALTERNATE ATTACHMENT METHOD.

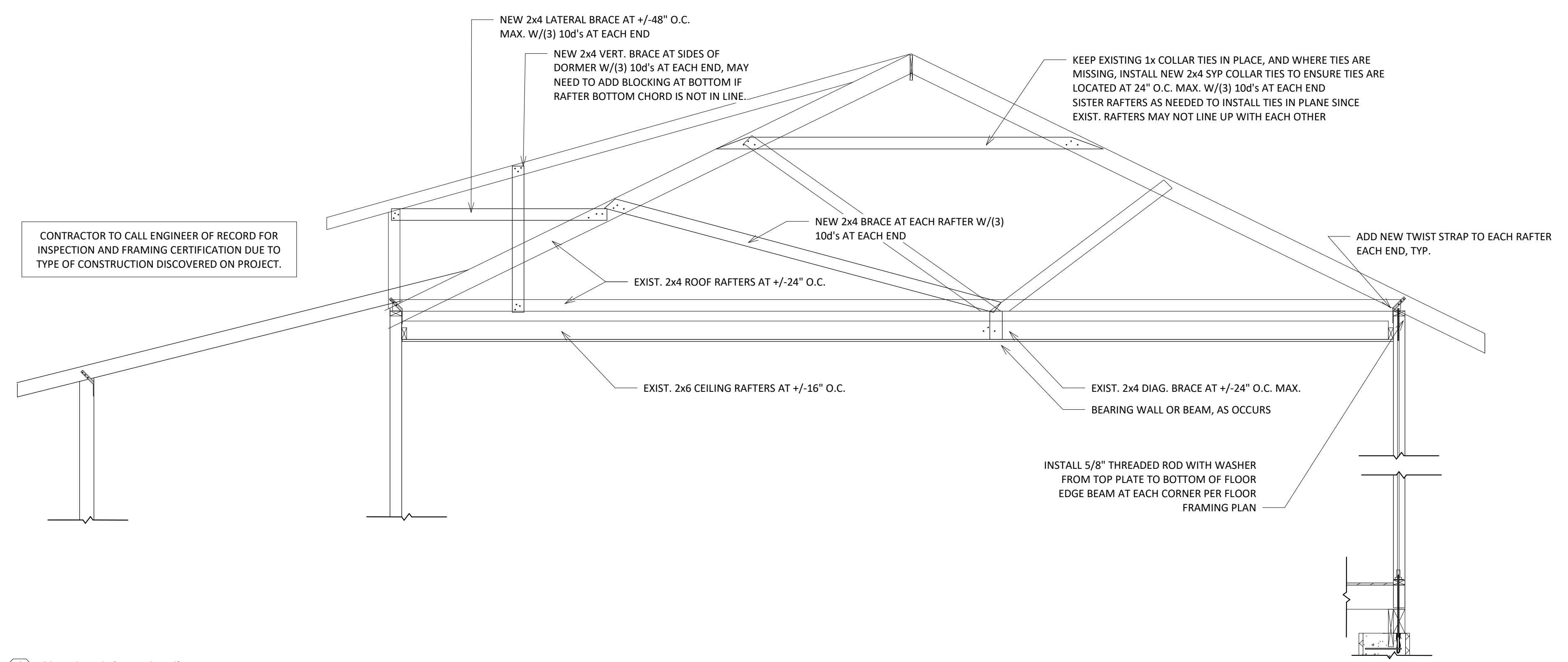
1 Door Detail at Frame
1" = 1'-0"



- a. SEE ARCHITECTURALS FOR INSULATION, FINISHES, TRIM
- b. 1/4" MAX. NON-DEGRADABLE SHIM W/ BACKER ROD, TRIM SHIMS 1/4" FROM FACE
- c. 1/4" Ø SCREWS AT 8" O.C. MAX. & 4" FROM CORNERS
- d. EXT. FINISH, SEE ARCHITECTURALS

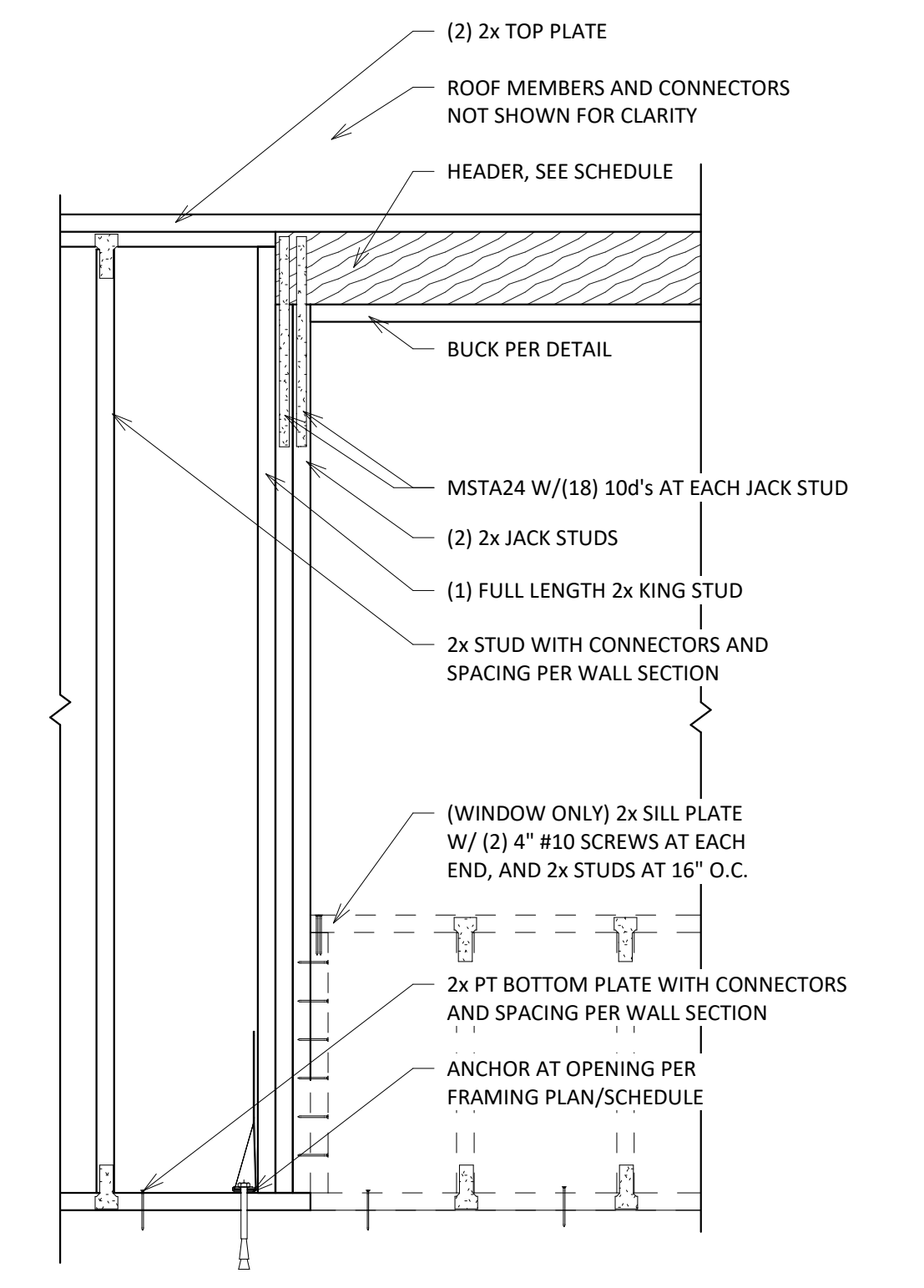
- NOTES:
1. SCREWS TO WOOD SHALL HAVE 1.5" EMBEDMENT MINIMUM.
 2. DO NOT INSTALL ANCHORS IN WINDOW SILL UNLESS NOTED BY PRODUCT APPROVAL.
 3. SEE PRODUCT APPROVAL FOR ALTERNATE ATTACHMENT METHOD.

2 Window Detail at Frame
1" = 1'-0"



CONTRACTOR TO CALL ENGINEER OF RECORD FOR INSPECTION AND FRAMING CERTIFICATION DUE TO TYPE OF CONSTRUCTION DISCOVERED ON PROJECT.

3 Structural Cross Section
1/2" = 1'-0"



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

PROJECT NUMBER: 19B013	
Date	
Description	
No.	
ISSUE DATE:	08/17/2023
STATUS:	REVIEW SET
DRAWN BY:	TS/ZN
REVIEWED BY:	TS

COL 3:12-17

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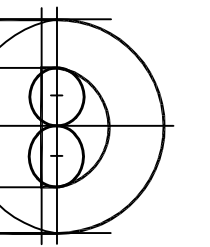
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Vero Beach FL 32963
for
Indian River County Parks
Division

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

Architect:



DONADIO
& Associates, Architects P.A.

A Spieze Group Inc. Company

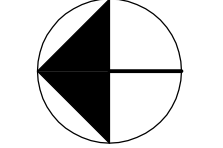


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Consultant:

Drawing Title:
HISTORIC RESIDENCE
EXISTING FLOOR PLAN

Reference North

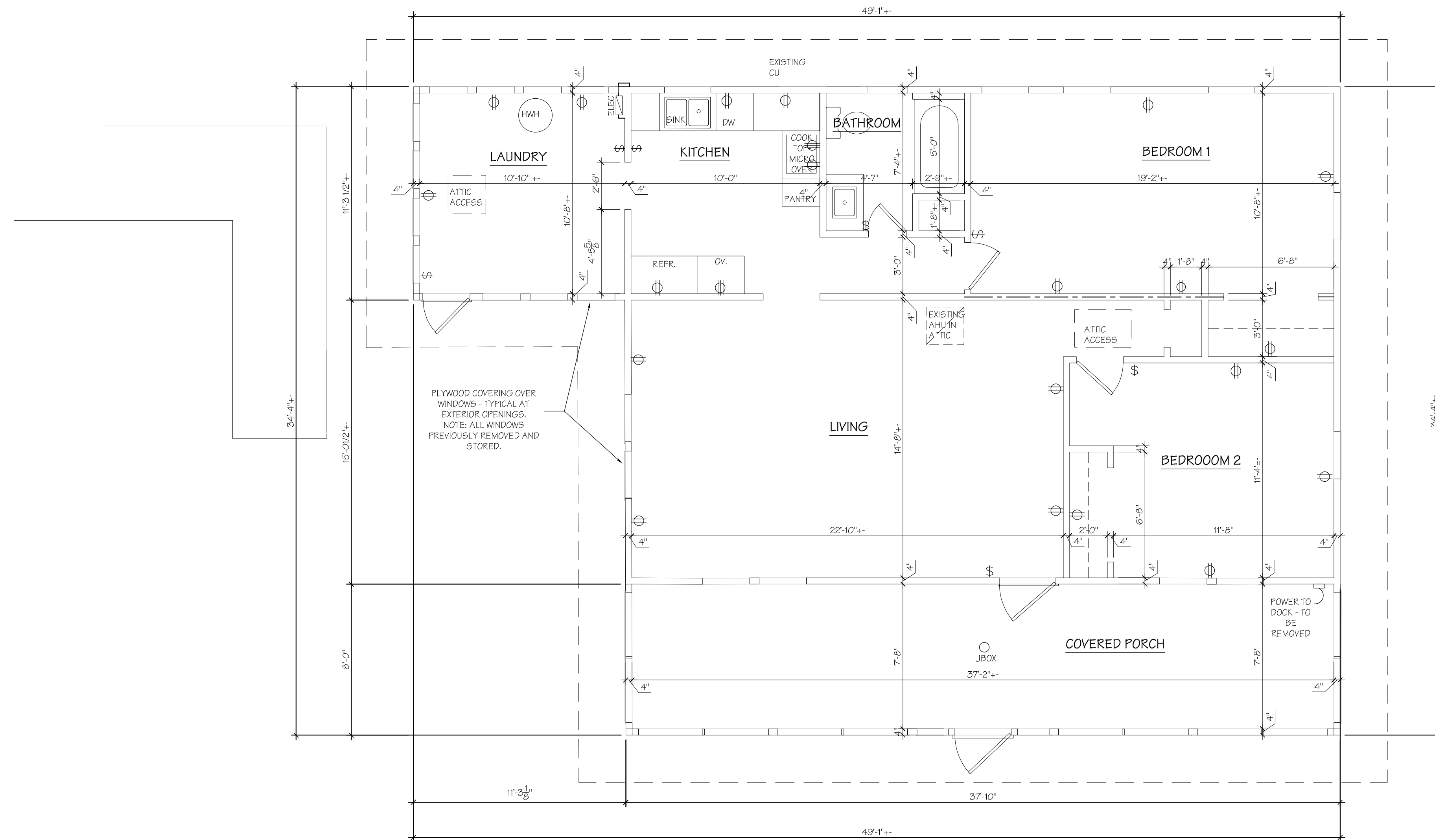


Drw: J.L.H. Dwg. File:
Chd: XREF File:
Project No.: 2018-23.03 Plot File:
Sheets: spieze: 21Z015

Cert. No.: 12,456

Date Signed:

EC 2.10

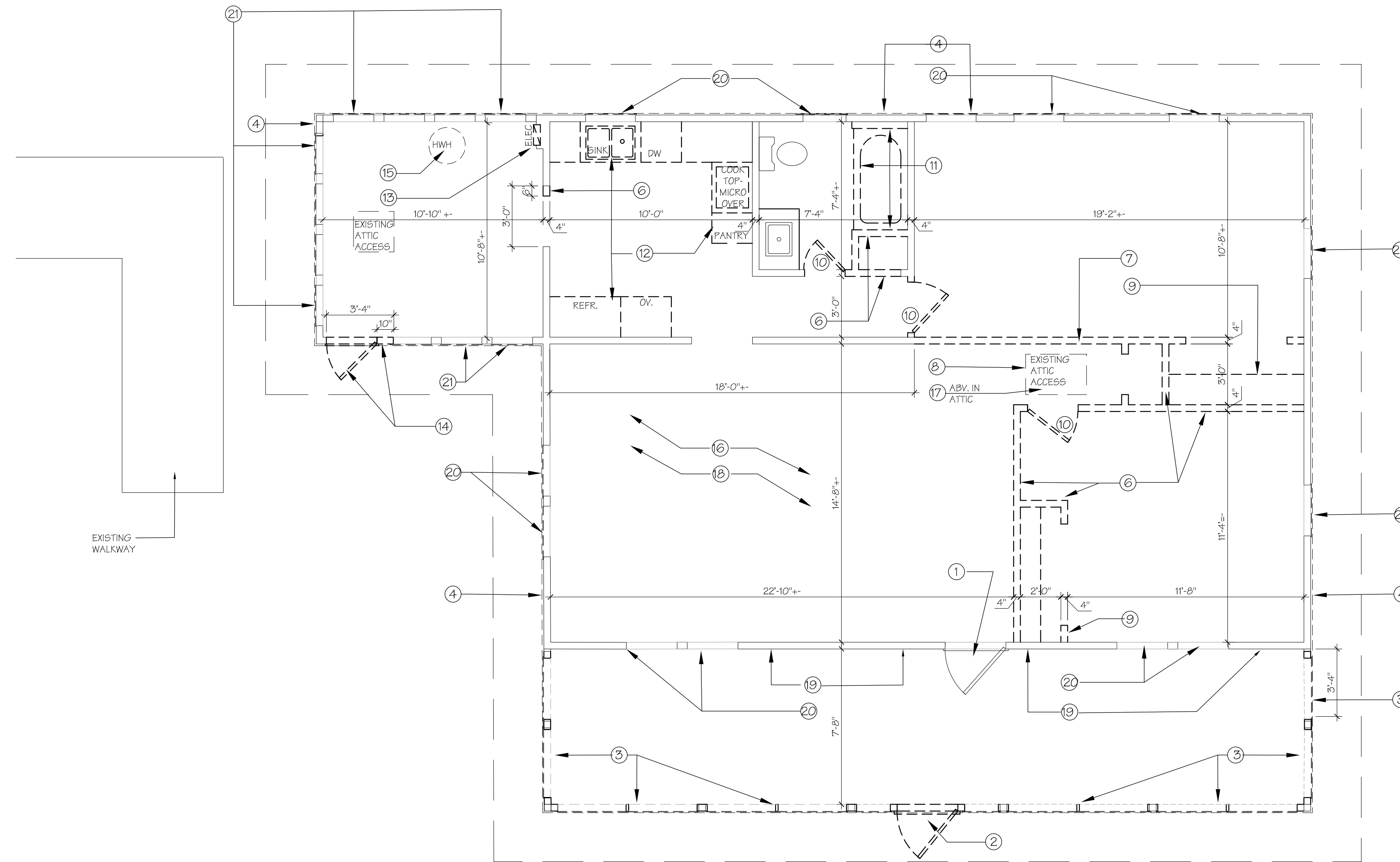


01 EXISTING FLOOR PLAN

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).



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 NEEDED
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

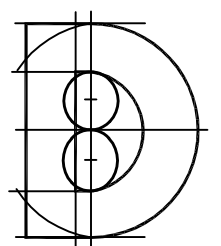
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Division

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 Spieze Group Inc. Company

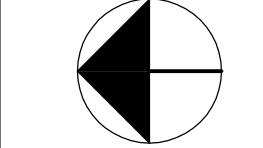


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Consultant:

Drawing Title:
**HISTORIC RESIDENCE
DEMOLITION PLAN**

Reference North



Dwg. File: J1H
XREF File: XREF
Chd: TP
Plot File: 2018-23.03
Splot File: spieze: 21Z015
Shest No.:

Cert. No.: 12,456

Date Signed:

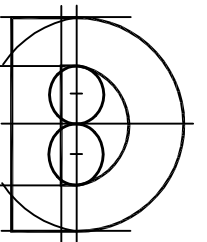
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Key Plan:

Issues:

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B.	07/09/21	GRANT SUBMITTAL
C.	07/23/21	FINAL GRANT SUBMITTAL
D.	09/01/21	GRANT RE-SUBMITTAL
E.	08/18/23	BID PACKAGE

Architect:



DONADIO
& Associates, Architects P.A.
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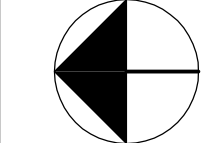
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PROPOSED FLOOR PLAN

Reference North



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Chd: XREF File:
TD Plot File:
Project No.: 2018-23_03 spieze: 212015
Sheet No.:

Cert. No.: 12,456

Date Signed:

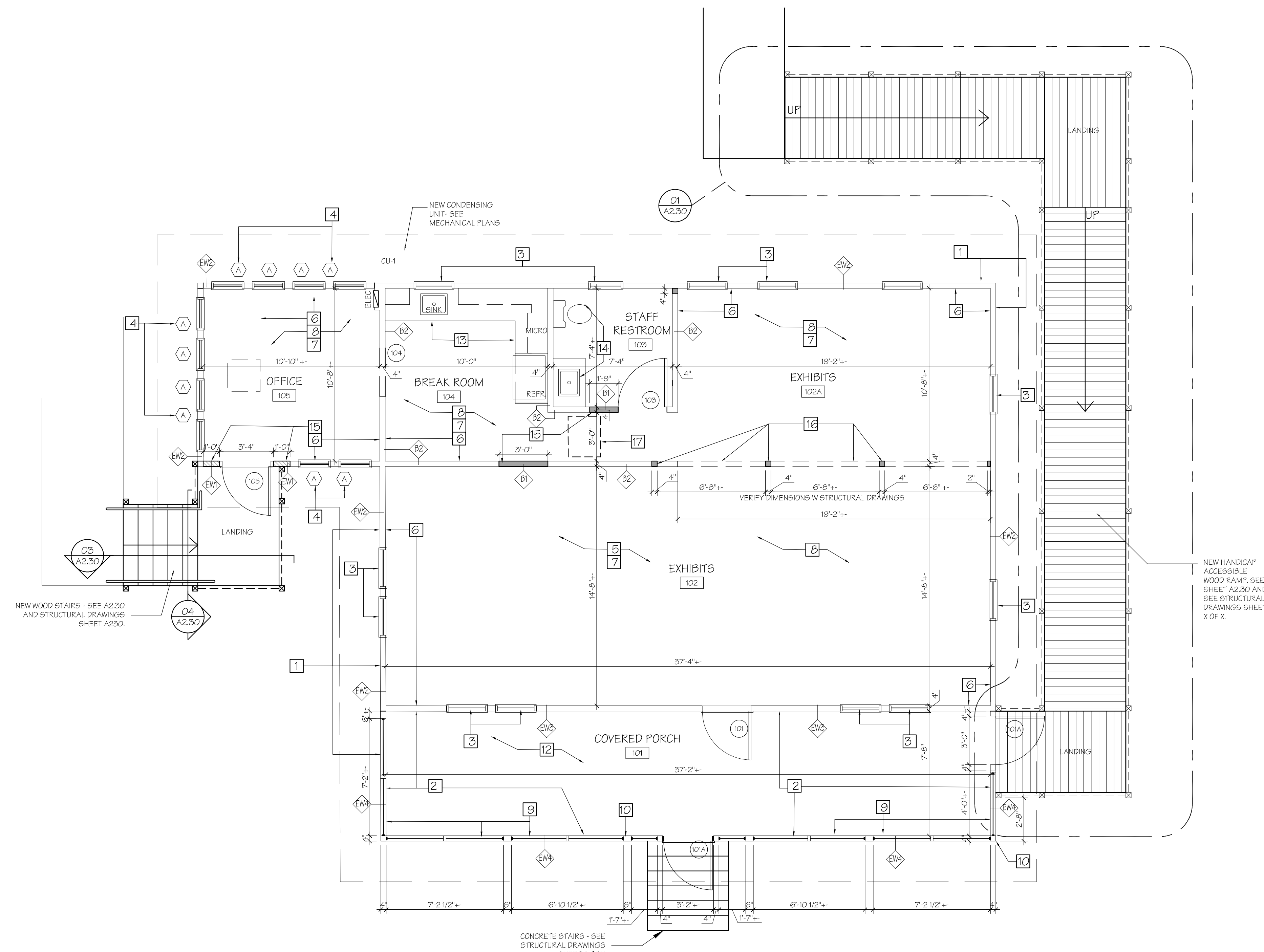
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CONSTRUCTION KEY NOTES:

- NEW EXTERIOR SIDING - CEMENT BEVEL LAP SIDING. MATCH TO BEST AVAILABILITY THE ORIGINAL SIDING PROFILE FOUND ON EXISTING WALL.
- EXISTING (ORIGINAL) SIDING AT PORCH WALL TO REMAIN.
- EXISTING WOOD WINDOWS TO BE RE-INSTALLED. NOTE: COORDINATE STORAGE AND RETRIEVAL OF EXISTING WOOD WINDOWS FROM PHASE I WORK.
- NEW WINDOWS: "WINDOW" SERIES 360; SINGLE HUNG IMPACT RESISTANT OR EQUAL. SEE SHEET A6.10
- NEW R-30 BATT INSULATION IN ATTIC AND FLOOR. NEW R-11 INSULATION IN WALLS.
- INTERIOR WALLS TO BE FINISHED WITH BEAD BOARD PANELING; MDF PRE-FINISHED 4 X 8 SHEETS, OVER 1/2" PLYWOOD INTERIOR SHEATHING. GC TO VERIFY ANY EXISTING MATERIAL THAT CAN BE RE-INSTALLED.
- NEW INTERIOR CEILING 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.
- 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.
- NEW WOOD FRAMED SCREEN ENCLOSURE AT FRONT PORCH. FIELD VERIFY EXISTING OPENINGS FROM SILL TO BEAM.
- 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.
- NEW PORCH FLOORING TO BE PLASTIC COMPOSITE DECKING TO MATCH NEW RAMP DECKING MATERIAL. COLOR SELECTION BY OWNER.
- NEW CABINETRY AND APPLIANCES. COORDINATE ELECTRIC & S.S. CONNECTION AS REQUIRED.
- EXISTING SINK AND W.C. TO REMAIN.
- NEW WALL INFILL - VERIFY TYPE WITH LEGEND.
- NEW COLUMNS AND BEAM - SEE STRUCTURAL DRAWINGS.
- NEW ATTIC ACCESS LOCATION. FIELD VERIFY EXISTING CEILING FRAMING FOR OPENING SIZE.

CONSTRUCTION LEGEND

- EW1 - NEW EXTERIOR WALL - 2X4 WOOD STUDS @ 16" O.C. - SHEATHING, VAPOR BARRIER & SIDING @ EXTERIOR; 3/4" R-11 BATT INSULATION & WALL PANELING @ INTERIOR.
- EW2 - EXISTING EXTERIOR WALL - NEW 5/8" CDX PLYWOOD SHEATHING, VAPOR BARRIER, 3/4" R-11 BATT INSULATION & NEW SIDING.
- EW3 - EXISTING EXTERIOR WALL - NEW INSULATION, NEW INTERIOR PANELING FINISH, EXISTING EXTERIOR SIDING. OCCURS AT INTERIOR PORCH WALL.
- EW4 - EXISTING EXTERIOR WALL - EXISTING INTERIOR SIDING FINISH REMAINS, NEW SHEATHING AND EXTERIOR SIDING OUTSIDE FACE. OCCURS AT EXTERIOR PORCH WALL BELOW OPENINGS.
- B1 - NEW INTERIOR STUD WALL INFILL - 2 X4 WOOD STUDS @ 16" O.C. W/ (1) LAYER WOOD PANELING EACH SIDE
- B2 - EXISTING INTERIOR WALL - NON-RATED



O1 PROPOSED FLOOR PLAN

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

AREA TABULATION

LIVING AREA/ EXHIBIT SPACE	791 SF
BREAK ROOM/ OFFICE	119 SF
	126 SF
TOTAL AIR CONDITIONED SPACE	1036 SF
PORCH	303 SF
TOTAL AREA UNDER ROOF	1339 SF

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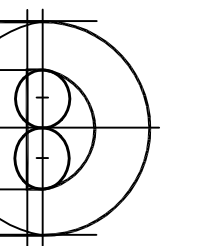
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Architect:



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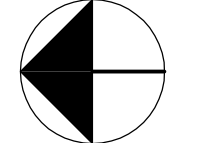
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Consultant:

Drawing Title:

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ENLARGED PLANS & DETAILS

Reference North

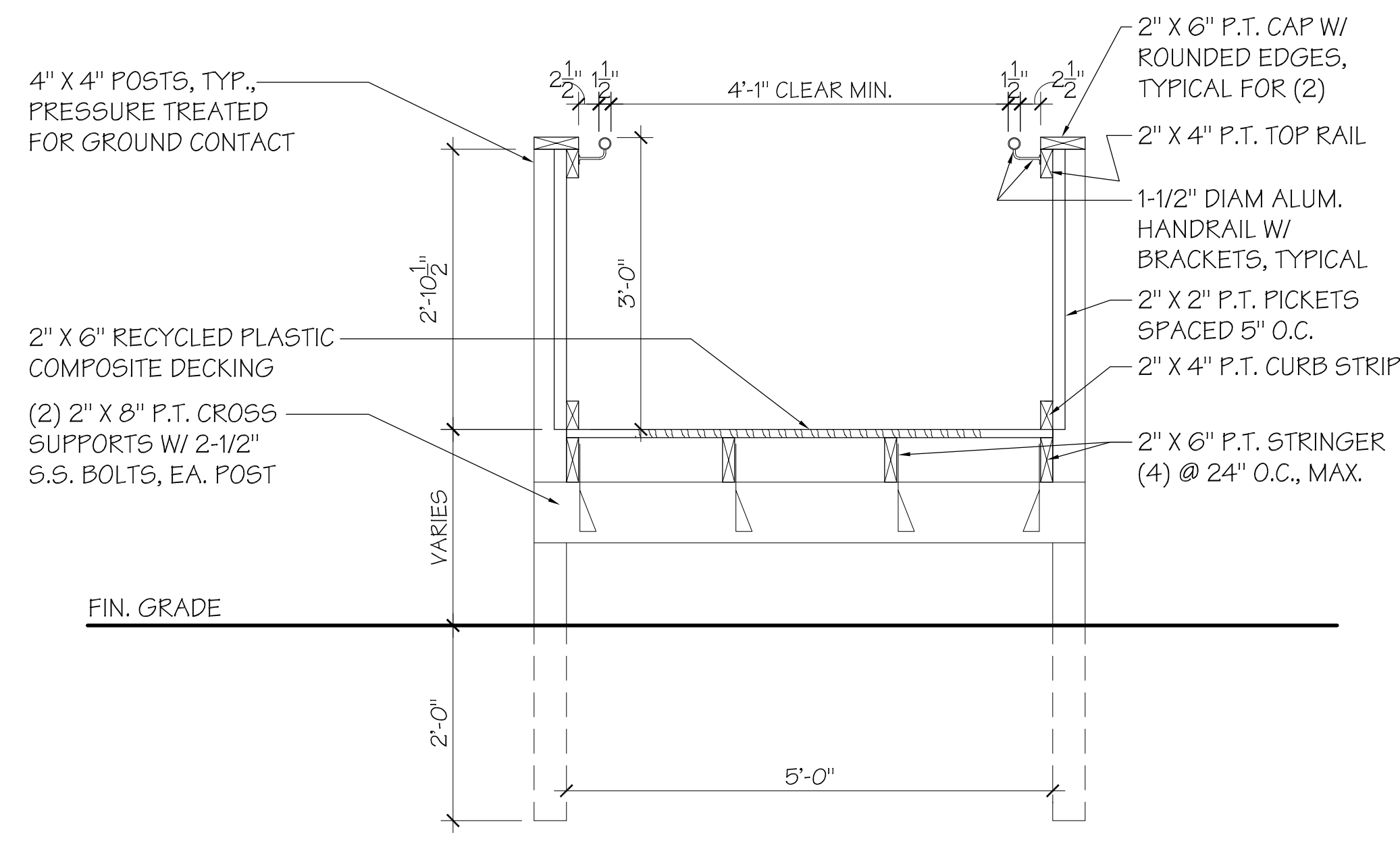


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Plot File:
2019-23_03_spieze: 212015
Sheet No.:

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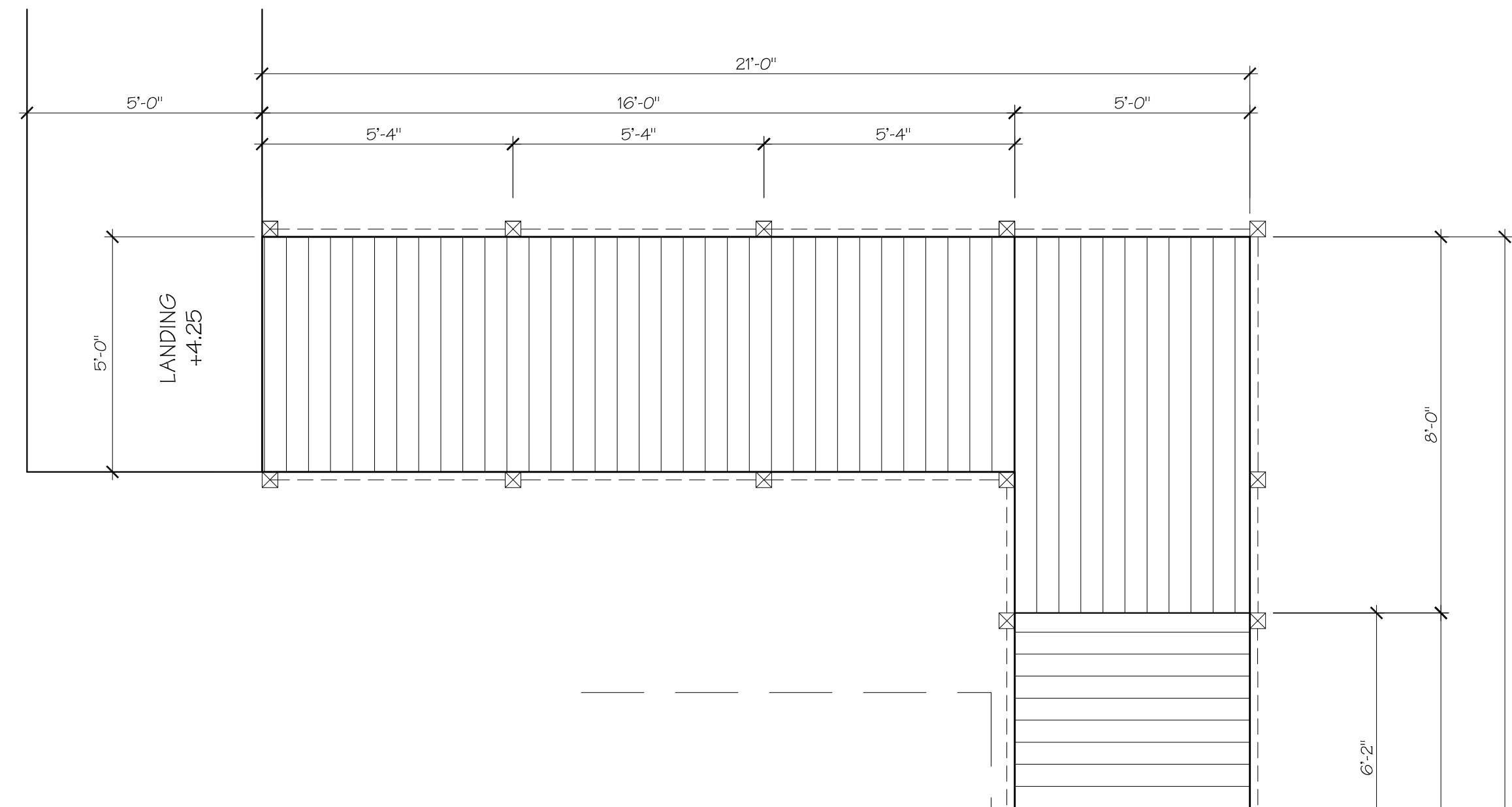
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02 SECTION- RAMP

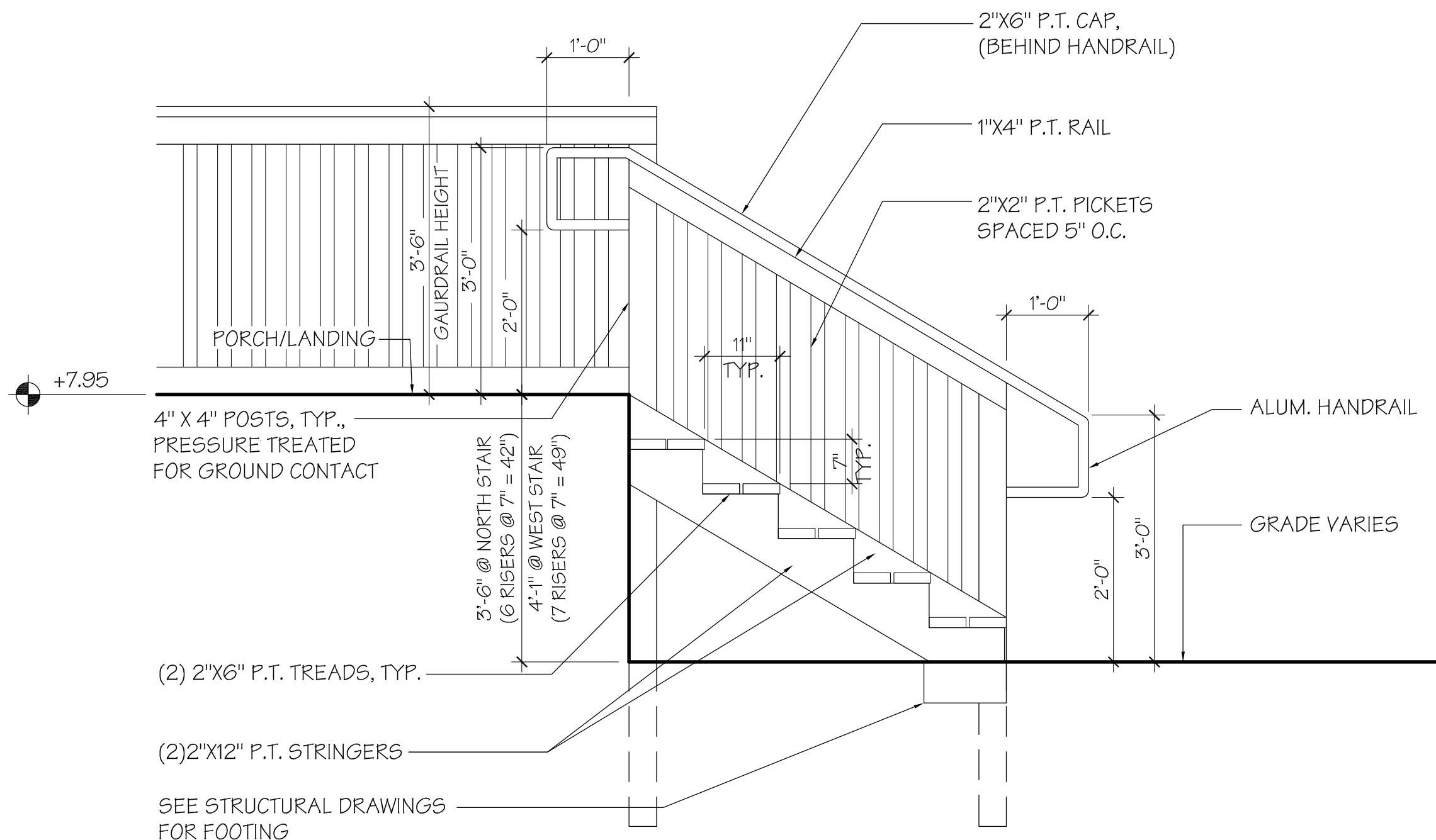
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01 ENLARGED PLAN- RAMP

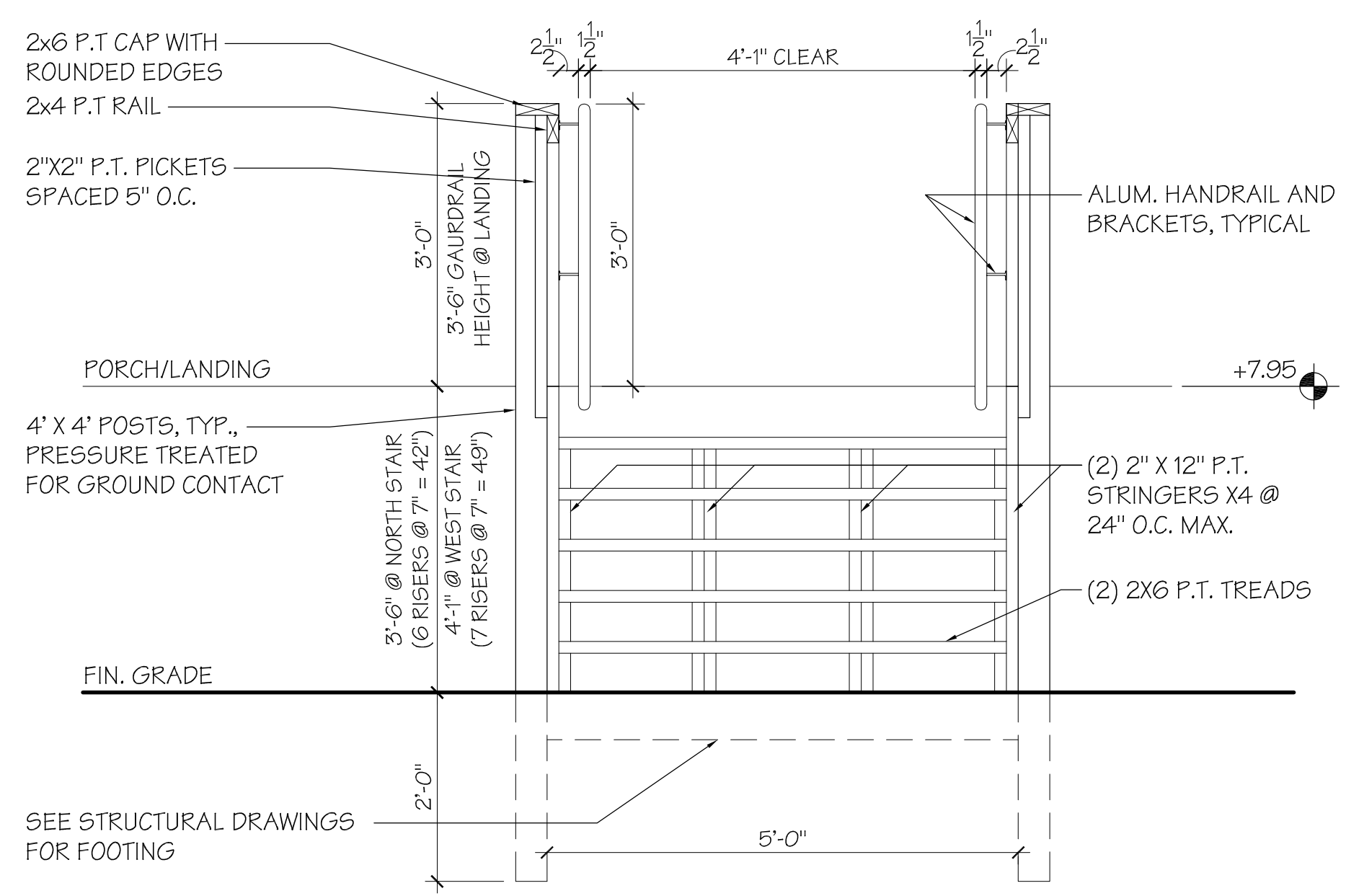
NOTE: SEE STRUCTURAL
DRAWINGS.

SCALE: 3/8" = 1'-0"



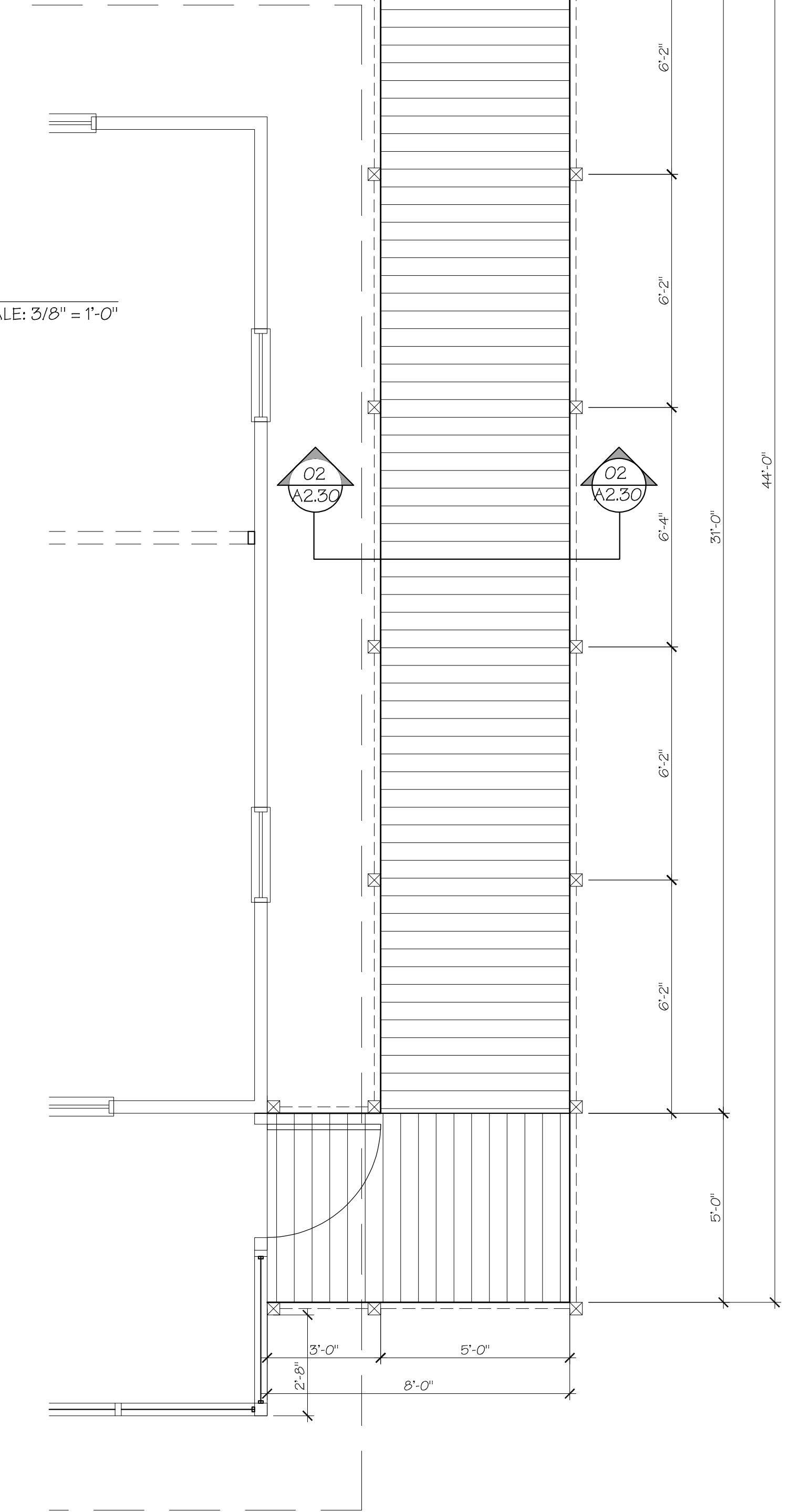
03 TYPICAL STAIR DETAIL

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



04 SECTION- STAIRS

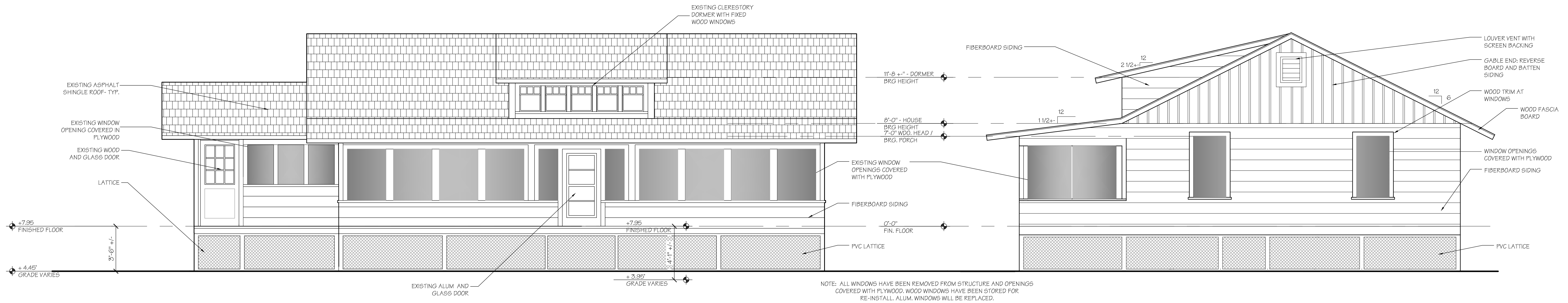
SCALE: 3/4" = 1'-0"



HISTORIC
RESIDENCE
MUSEUM

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

Key Plan:

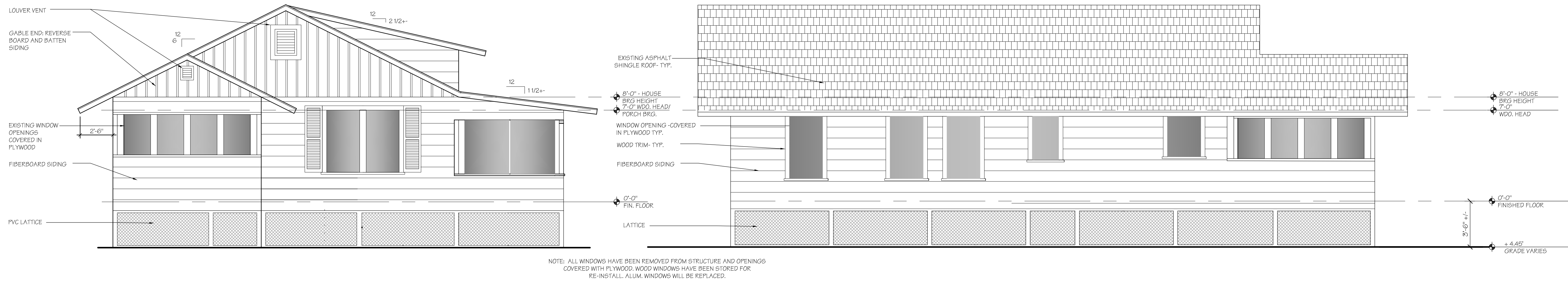


01 WEST ELEVATION - EXISTING
SCALE: 1/4" = 1'-0"

02 SOUTH ELEVATION - EXISTING
SCALE: 1/4" = 1'-0"

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



03 NORTH ELEVATION - EXISTING
SCALE: 1/4" = 1'-0"

04 EAST ELEVATION - EXISTING
SCALE: 1/4" = 1'-0"

Architect:



Consultant:

Drawing Title:

HISTORIC RESIDENCE
EXISTING ELEVATIONS

Drawn:	Dwg. File:
JLH	XREF File:
Chd:	TD
Project No.:	Plot File:
2018-23.03	spiezle: 212015
Sheet No.:	

Cert. No.: 12,456

Date Signed: EC 3.10

HISTORIC
RESIDENCE
MUSEUM

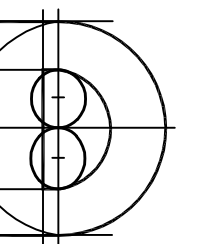
7770 Jungle Trail
Vero Beach FL 32963
for
Indian River County Parks
Division

Key Plan:

Issues:

No.:	Date:	Description:
A.	05/20/21	GRANT SUBMITTAL
B.	07/9/21	GRANT SUBMITTAL
C.	07/23/21	FINAL GRANT SUBMITTAL
D.	09/01/21	DHR REVISIONS
E.	08/18/23	BID PACKAGE

Architect:



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



SPIEZE ARCHITECTURAL GROUP INC.
2001 9th Avenue, Suite 308
Vero Beach, FL 32909
Tel: 772.754.2929
Fax: 772.962.8800
License No. AA00022038
www.spieze.com

Consultant:

Drawing Title:

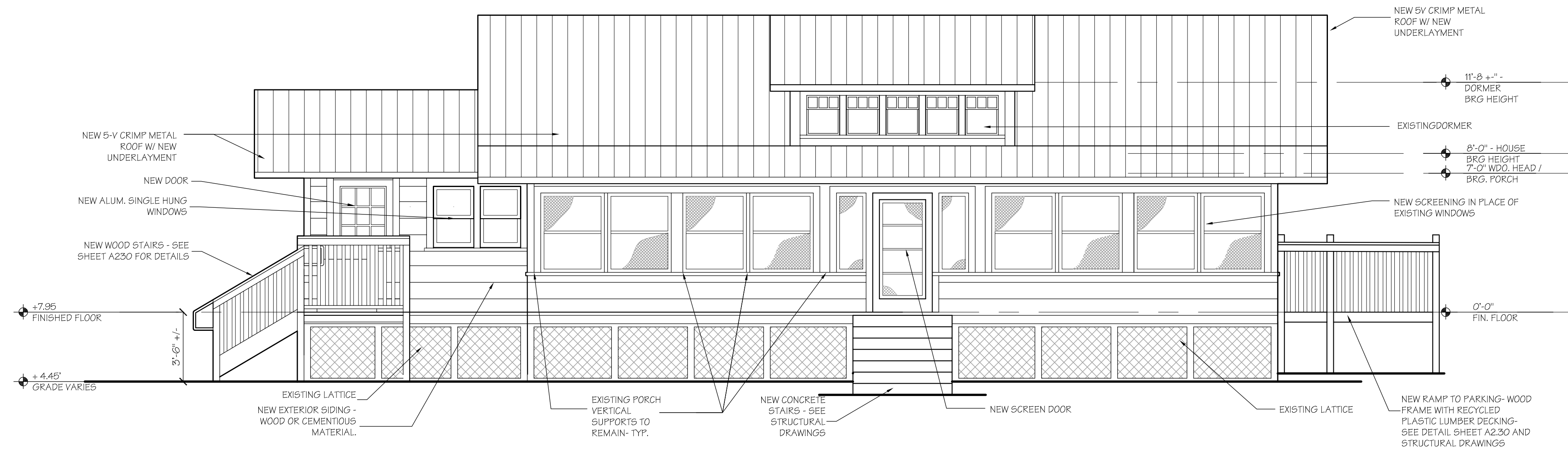
HISTORIC MUSEUM
PROPOSED ELEVATIONS

Dwg. File: JLH
XREF File: XREF
TD
Project No.: 2018-23.03
Plot File: spieze: 21Z015
Sheet No.: 12,456

Cert. No.: 12,456

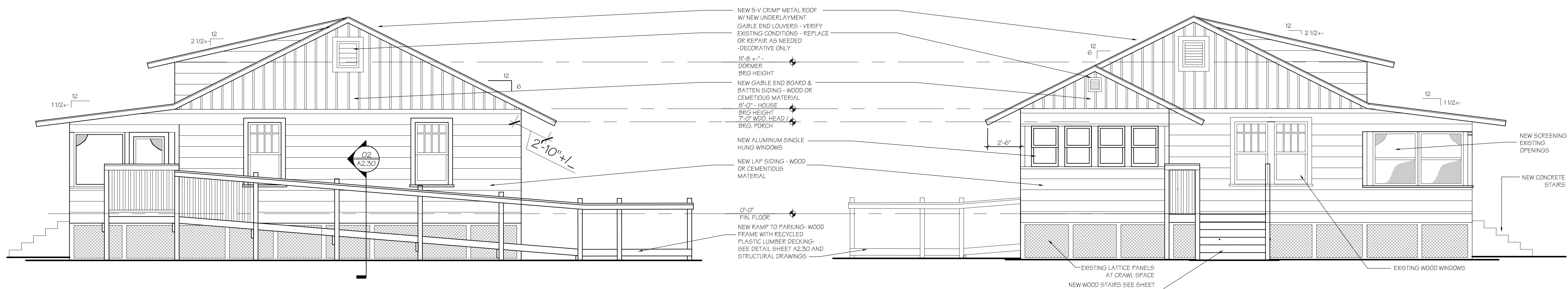
Date Signed:

A 3.10



01 WEST ELEVATION - PROPOSED

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



02 SOUTH ELEVATION - PROPOSED

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

03 NORTH ELEVATION - PROPOSED

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



04 EAST ELEVATION - PROPOSED

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

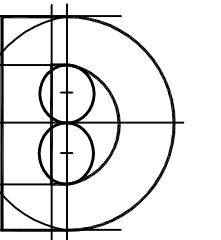
HISTORIC
RESIDENCE
MUSEUM
7770 Jungle Trail
Vero Beach FL 32963
for
Indian River County Parks
Division

Key Plan:

Issues:

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

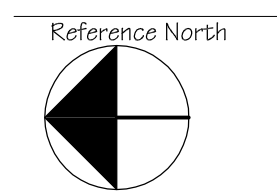
Architect:



DONADIO & Associates, Architects P.A.
A Spiezie Group Inc. Company
spiezie
SPELZLE ARCHITECTURAL GROUP INC.
2001 19th Avenue, Suite 300
Vero Beach, FL 32909
Tel: 772.794.2929
Fax: 772.863.9000
License No. AA0002238
www.spiezie.com

Consultant:

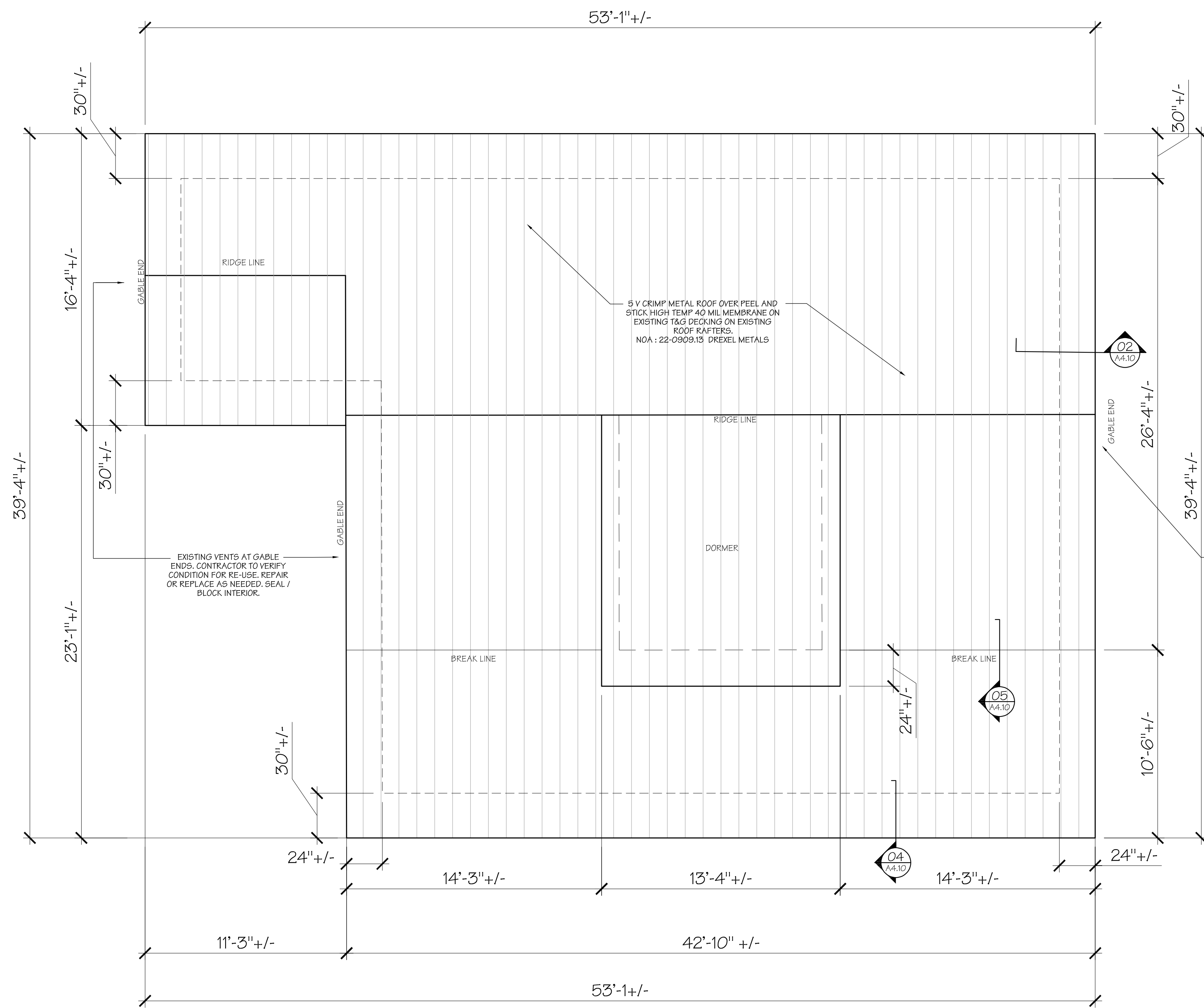
Drawing Title:
HISTORIC MUSEUM
PROPOSED ROOF PLAN



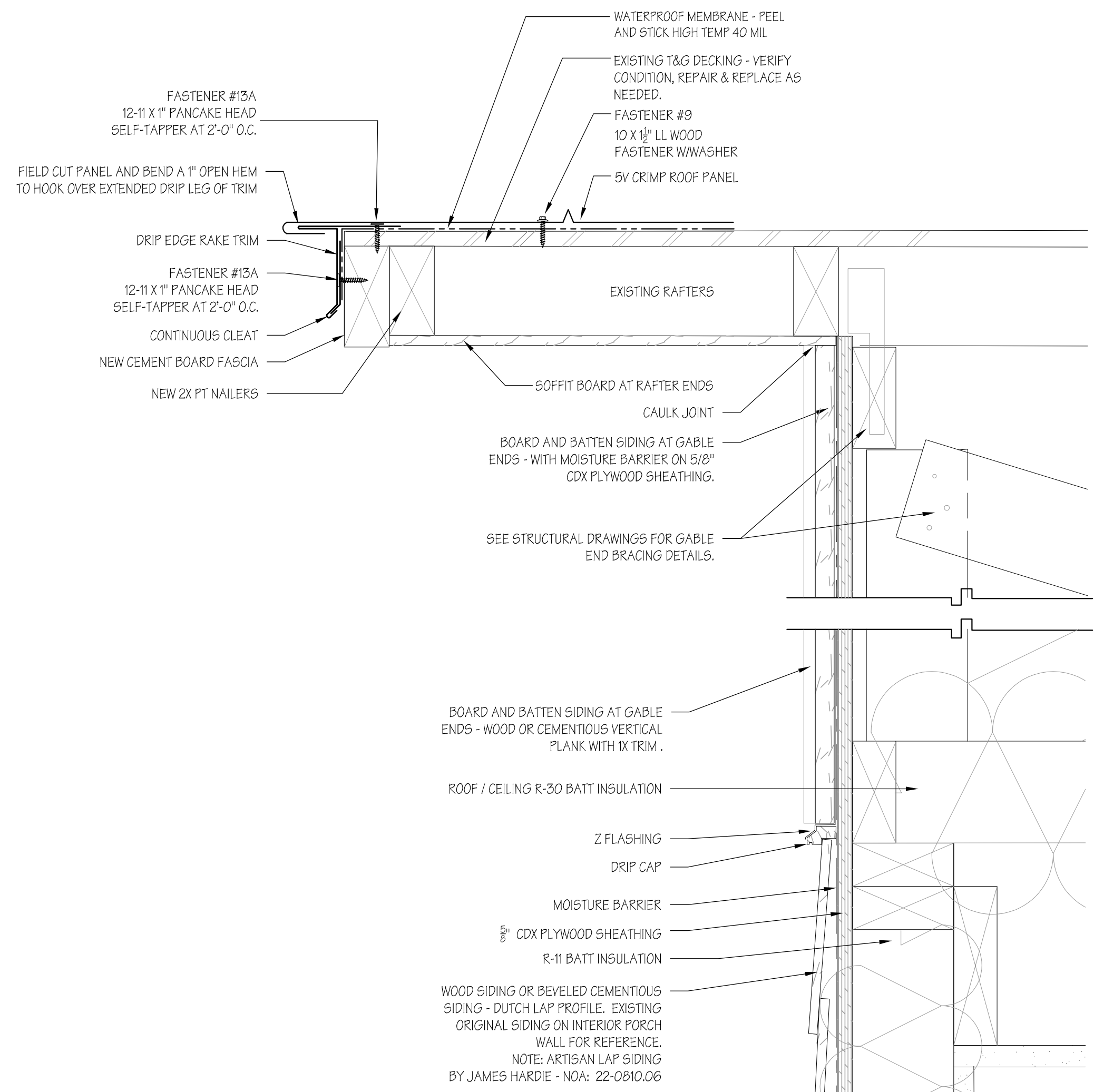
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XREF File:
TD
Project No.: 2018-23.03
Plot File: spiezie: 212015
Sheet No.:

Cert. No.: 12,456

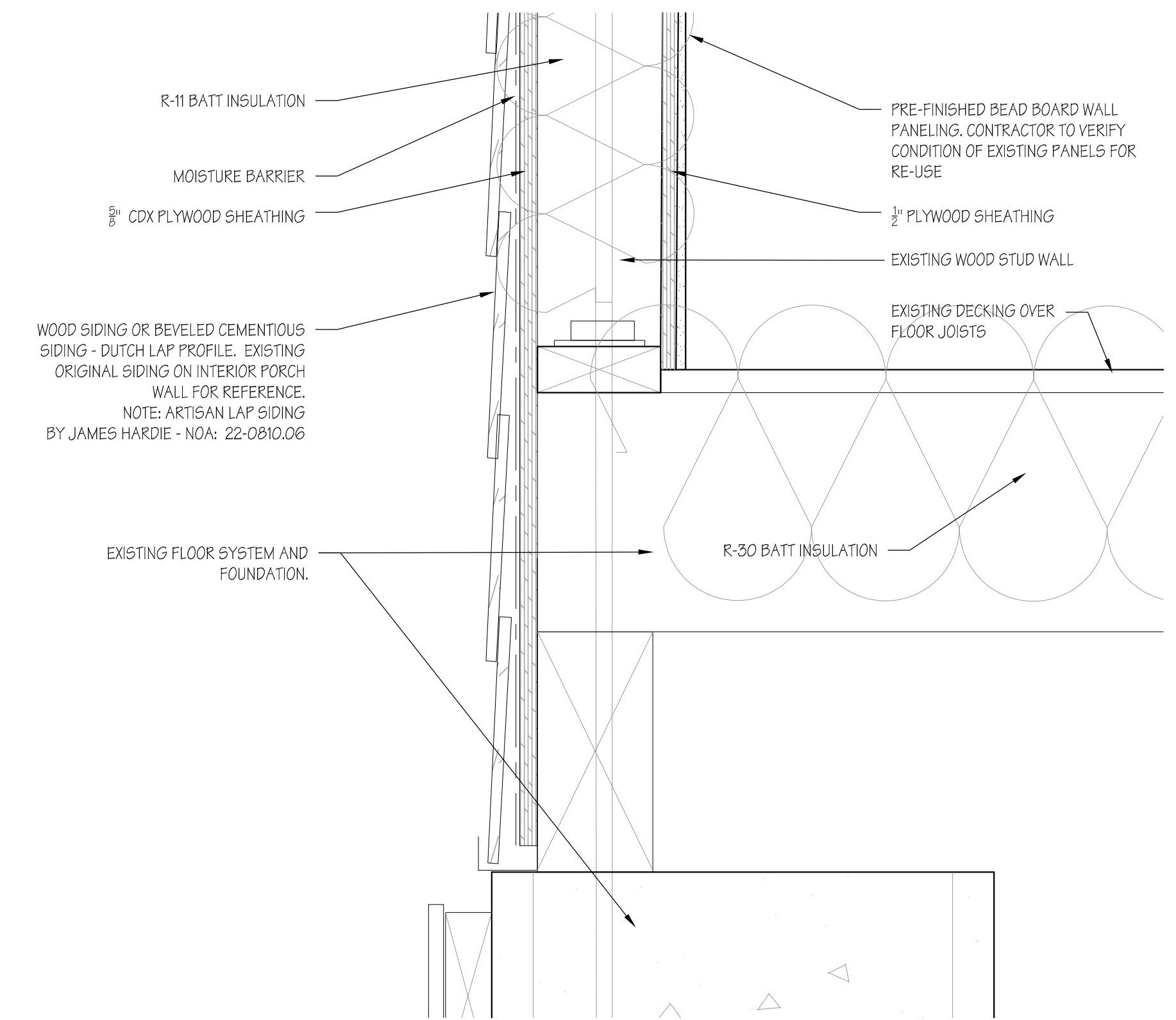
Date Signed: A 4.10



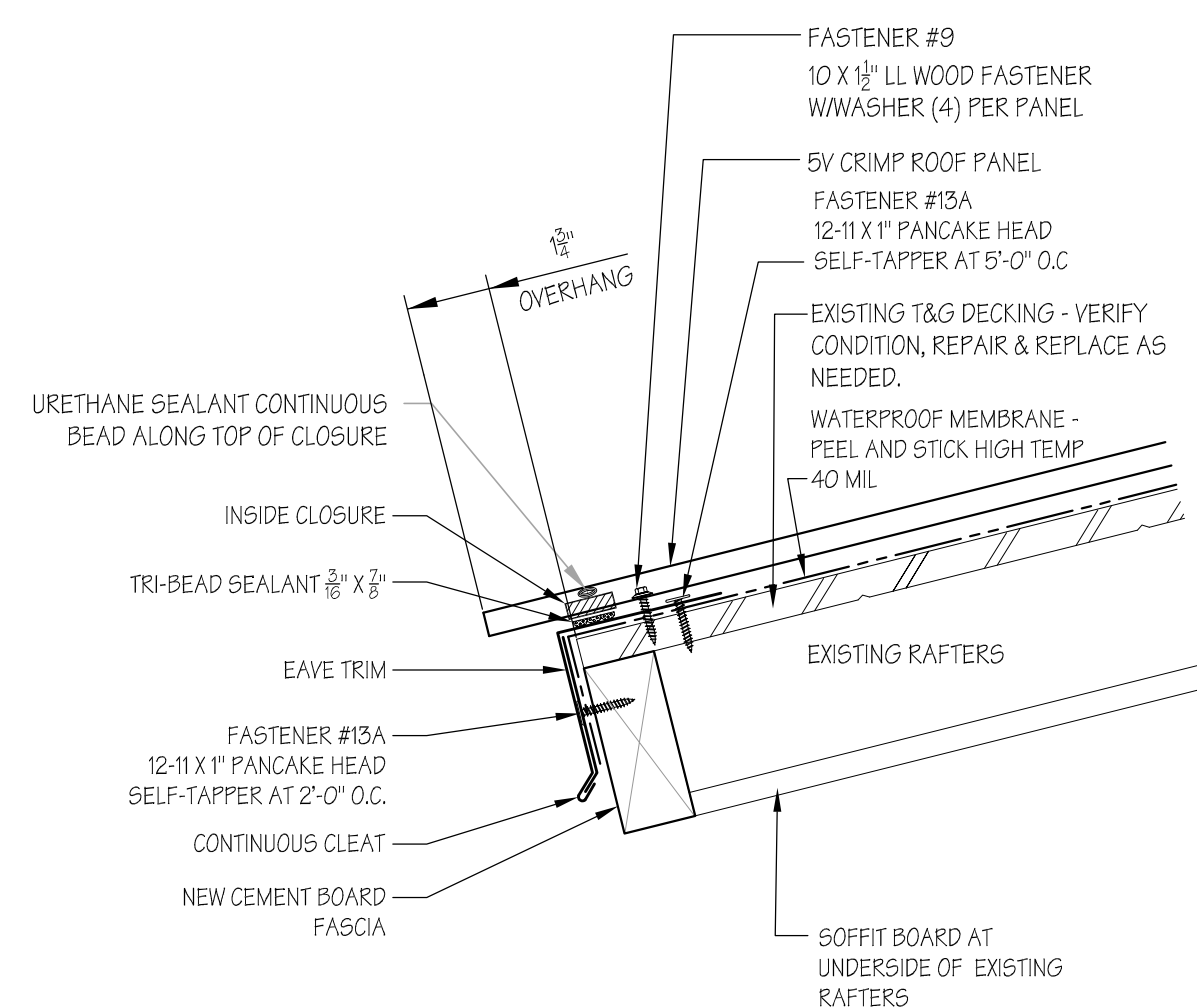
01 PROPOSED ROOF PLAN
SCALE: 1/4" = 1'-0"



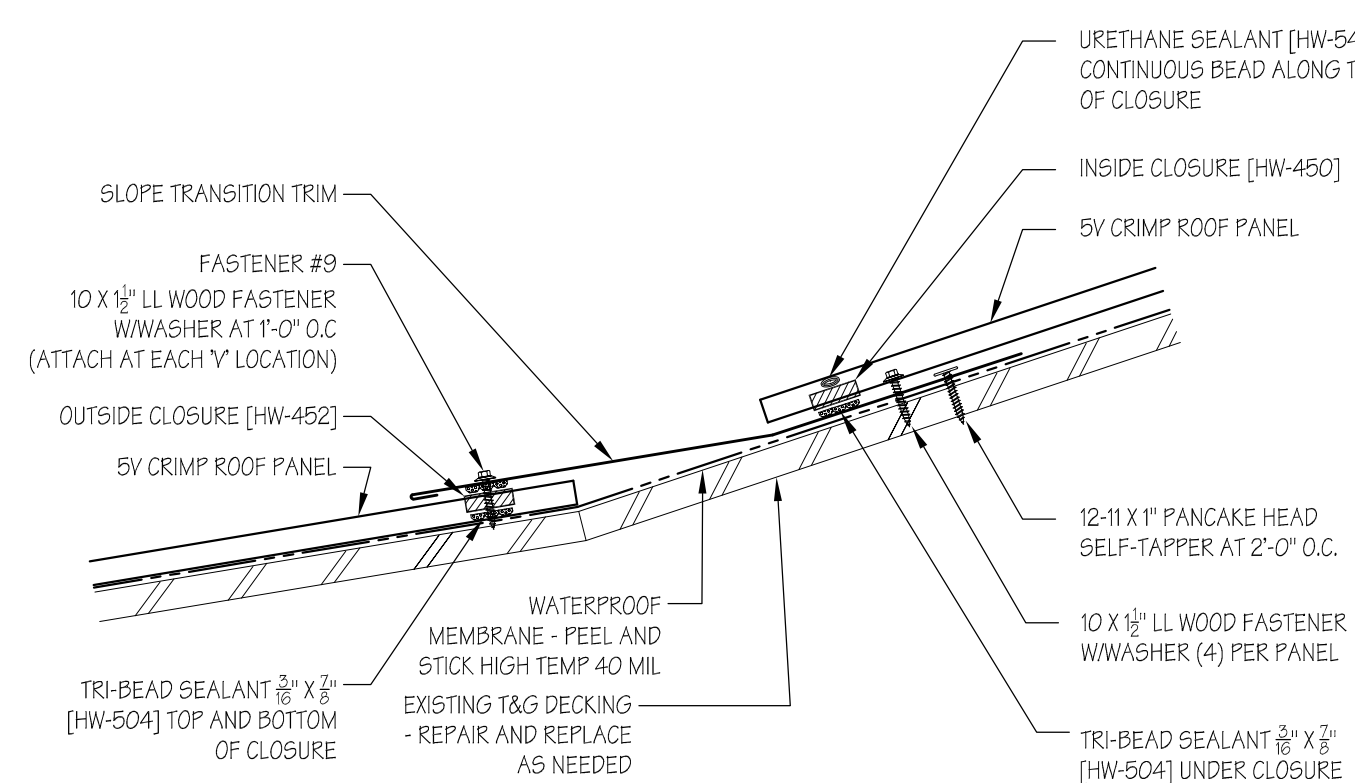
02 GABLE END DETAIL
SCALE: 3" = 1'-0"



03 TYPICAL WALL SECTION
SCALE: 3" = 1'-0"



04 SECTION
SCALE: 3" = 1'-0"



05 SECTION
SCALE: 3" = 1'-0"

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, FLOORINGS, 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.

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR		BASE		WALL								CEILING			REMARKS	ROOM NUMBER
		MATERIAL	FINISH	MATERIAL	FINISH	NORTH		SOUTH		EAST		WEST		MATERIAL	FINISH	HEIGHT		
						MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH					
101	FRONT PORCH	WD	P	WP	---	CB	P	CB	P	WD-EX	P	WD-EX	P	VARIABLE	EXPAND WOOD CEILING VERIFY CONDITIONS REPAIR/REPLACE AS NEEDED. WEST WALL BRING AT STRUCTURE TO REMAIN.	101		
102	EXHIBITS	WD	P	WP	P	MRB	P	MRB	P	MRB	P	MRB	P	GY	P	8'-0"	102	
103	STAFF RESTROOM	WD	P	MRB	P	MRB	P	MRB	P	MRB	P	MRB	P	GY	P	8'-0"	103	
104	BREAK ROOM	WD	P	WP	P	MRB	P	MRB	P	MRB	P	MRB	P	GY	P	8'-0"	104	
105	OFFICE	WD	P	WP	P	MRB	P	MRB	P	MRB	P	MRB	P	GY	P	8'-0"	105	

FLOOR	BASE	WALL	CEILING	FINISH	NOTES
CS - CONCRETE, SEALED LVT - LUXURY VINYL TILE CT - CERAMIC TILE T - PORCELAIN TILE	CTB - CTB T - PORCELAIN TILE TR - TRIM 1 x 6 WOOD BASE RB - 6" RUBBER BASE WD - WOOD BASE	CMU - CONCRETE MASONRY UNITS GYB - GYPSUM BOARD MRB - MOISTURE RESISTANT BOARD STC - STUCCO WP - 2x16 IN. X 4 FT. X 8 FT. WHITE MDF TRUBREAD WAINSCOT PANELING CB - CEMENTIOUS BOARD	GYB - GYPSUM BOARD ACT - ACCOUSTICAL TILE EXP - EXPOSED STRUCTURE FC - FIBER CEMENT	P - PAINT S - STAIN FACT - FACTORY --- - NO, NONE OR OR NOT APPLICABLE	

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE WIDTH X HEIGHT THICKNESS	DOOR				FRAME				THRESHOLD	UNDERCUT FOR AIR	FIRE RATING (IN MINUTES)	HARDWARE GROUP	REMARKS	DOOR NUMBER			
		DOOR TYPE	MATERIAL	GLASS	FINISH	FRAME TYPE	MATERIAL	FINISH	DETAILS SILL JAMB TRANSOM HEAD									
DOORS																		
101	3'-0" X 6'-8" - EXISTING	1 3/4"	A	SCW	---	P	1	HM	P	---	J1/A6.10	---	H1/A6.10	---	---	00	EXISTING TO REMAIN	101
101A	3'-0" X 6'-8"	1"	B	WD	---	P	---	WD	P	---	J1/A6.10	---	H1/A6.10	---	---	00	SCREEN	101A
101B	3'-0" X 6'-8"	1"	B	WD	---	P	---	WD	P	---	J1/A6.10	---	H1/A6.10	---	---	00	SCREEN	101B
103	3'-0" X 6'-8"	1 3/4"	C	SCW	---	P	1	WD	P	---	J2/A6.10	---	H2/A6.10	---	---	00		103
104	3'-0" X 6'-8"	---	---	---	---	---	1	WD	P	---	---	---	---	---	---	00	CASED OPENING	104
105	3'-0" X 6'-8"	1 3/4"	D	MTL	TP	P	1	WD	P	---	J1/A6.10	---	H1/A6.10	---	---	00		105
WINDOWS																		
A	2'-0" X 3'-0"	5/8"	A	AL	IRG	---	---	WD	F	S2/A6.10	S3/A6.10	---	H2/A6.10	---	---	---	WINDOW SERIES 360 5-Hz IMPACT GLASS	A

AL = ALUMINUM
AN = ANODIZED
ALG = ALUMINUM/GLASS

FACT = FACTORY PRE-FINISHED
HM = HOLLOW METAL

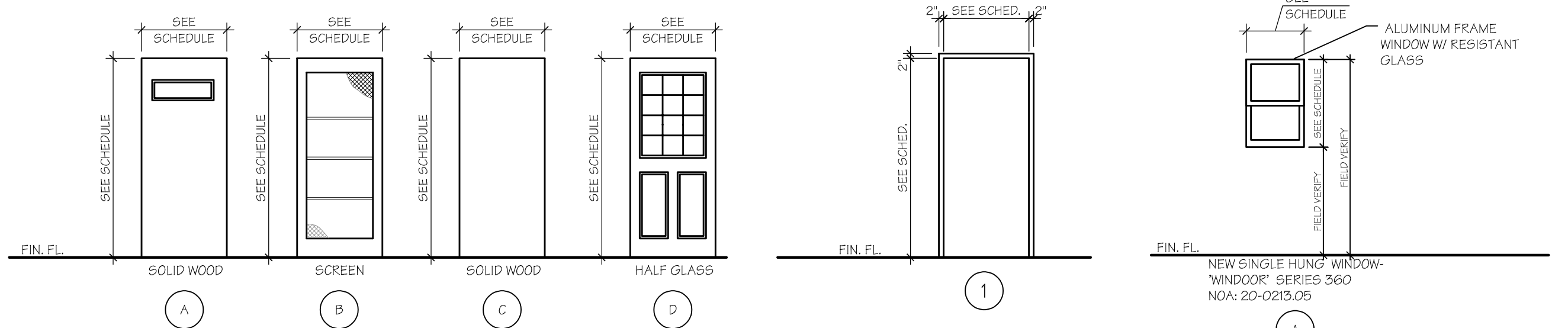
MBL = MARBLE
P = PAINT

SF = STOREFRONT
SCW = SOLID CORE WOOD
BV = BIRCH VENEER

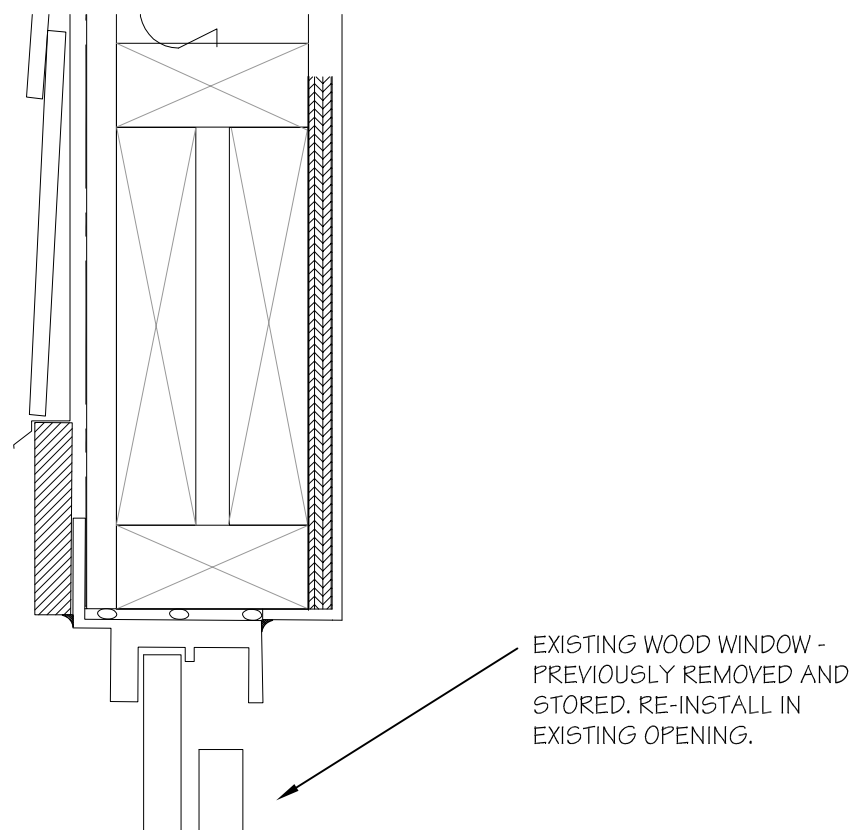
TP = TEMPERED
IRG = IMPACT RESISTANT GLASS
FRG = FIRE-RATED GLASS ("FIRE LIGHT PLUS")
NOTE: "FIRE LIGHT PLUS" IS ALSO IMPACT-RATED

LSG = LAMINATED SAFETY GLASS
--- = NO, NONE OR NOT APPLICABLE

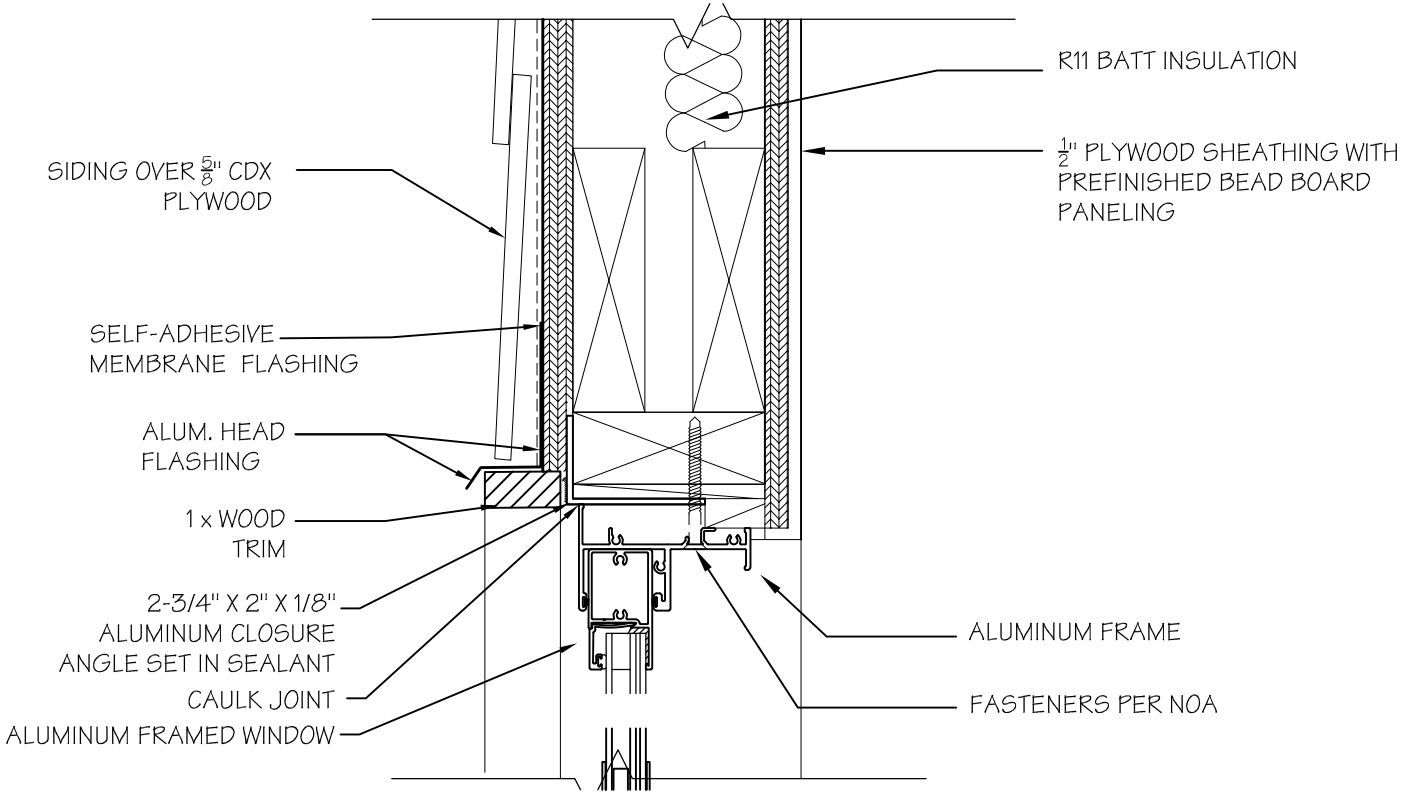
NOTE: FOR HARDWARE GROUPS, SEE DRAWING A6.10



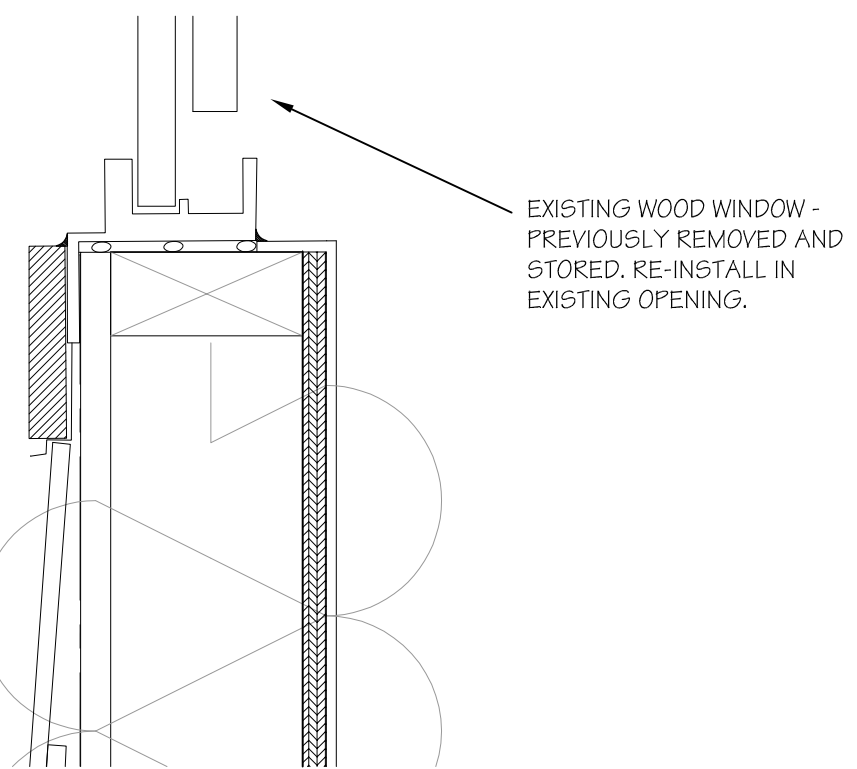
01 DOOR TYPE Scale: 1/4"=1'-0"
02 FRAME TYPE Scale: 1/4"=1'-0"
03 WINDOW TYPE Scale: 1/4"=1'-0"



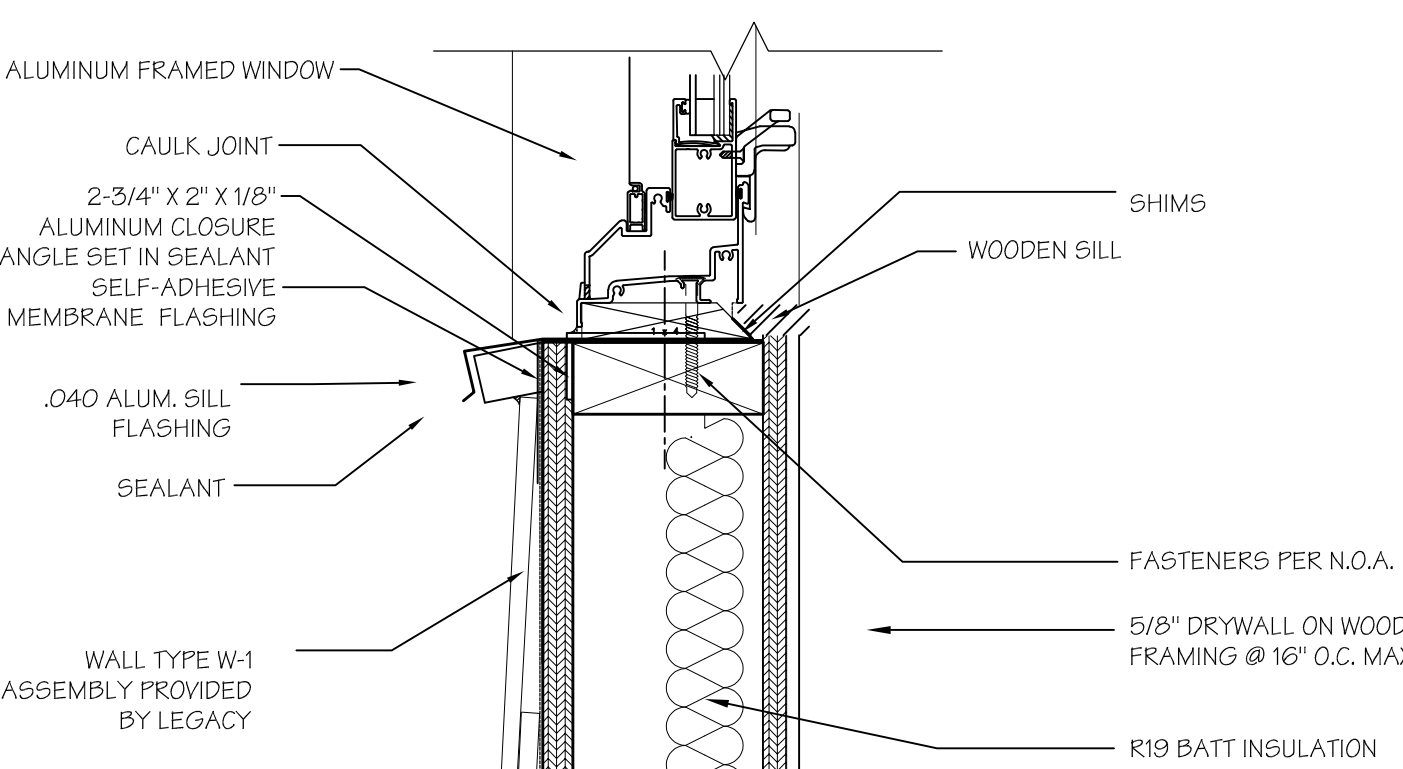
H1 WINDOW HEAD - EXISTING WOOD WINDOWS Scale: 3/8"=1'-0"



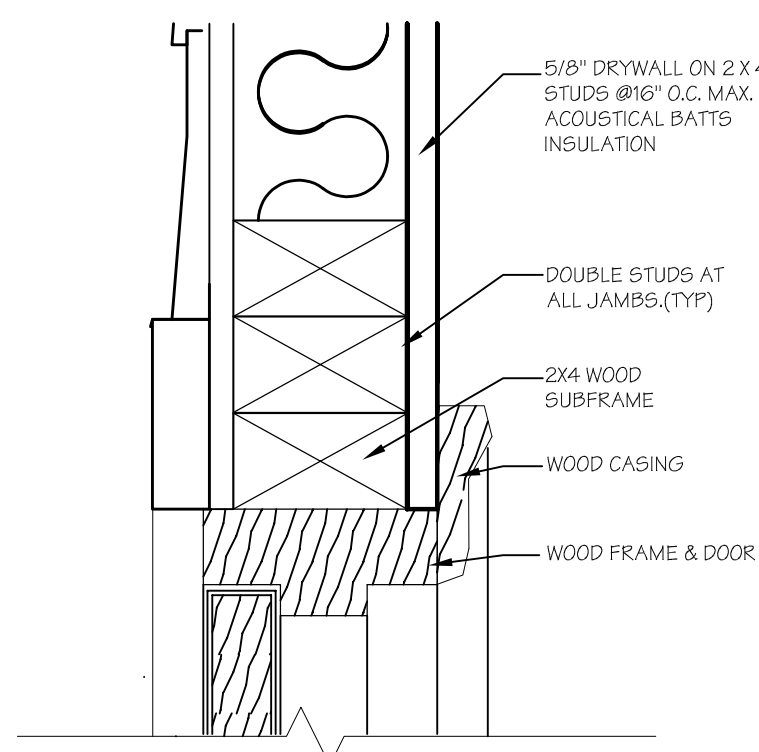
H2 WINDOW HEAD Scale: 3/8"=1'-0"



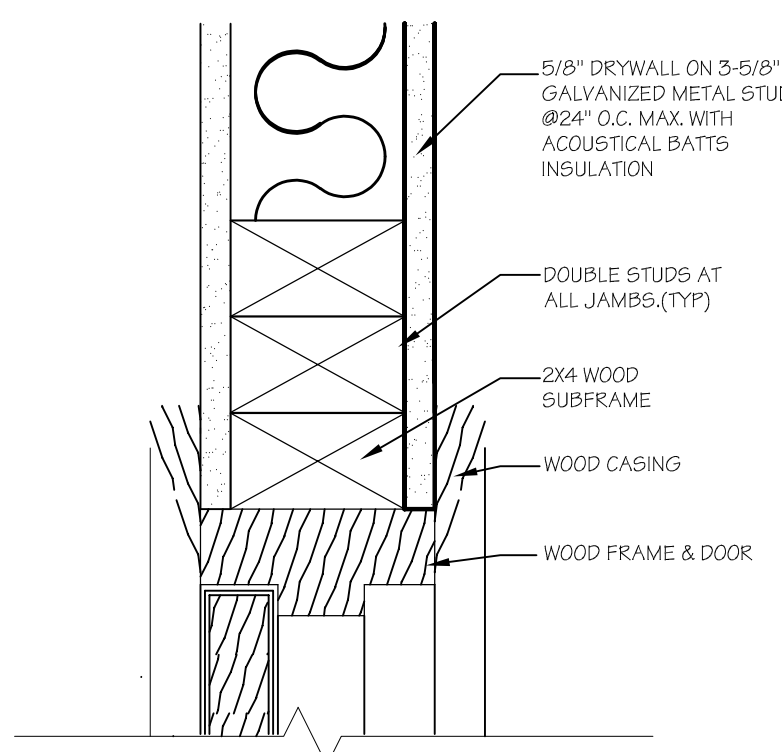
S1 SILL DETAIL - EXISTING WOOD WINDOWS Scale: 3/8"=1'-0"



S2 SILL DETAIL Scale: 3/8"=1'-0"



H3 EXTERIOR DOOR HEAD DETAIL Scale: 3/8"=1'-0"



H4 INTERIOR WOOD DOOR HEAD DETAIL Scale: 3/8"=1'-0"

S3 EXTERIOR DOOR SILL DETAIL Scale: 3/8"=1'-0"

S4 INTERIOR WOOD DOOR SILL DETAIL Scale: 3/8"=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:

No.	Date	Description
A	07/08/21	GRANT SUBMITTAL
B	07/23/21	FINAL GRANT SUBMITTAL
E	08/18/23	BID PACKAGE

Issues:

No.: Date: Description:

A. 07/08/21 GRANT SUBMITTAL

B. 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 32909
Tel: 772.794.8009
Fax: 772.562.8600
Licenses No. RA08022308
www.spiezle.com

Consultant:

Drawing Title:
ROOM FINISH AND DOOR SCHEDULES AND DETAILS

Dwg. File: JLH
XREF File:
TD
Plot File:
2018-23_03_spiezle: 212015
Sheet No:

Cert. No.: 12,456
Date Signed: A6.10

LIGHTING FIXTURE SCHEDULE table with columns: SYMBOL, TYPE, DESCRIPTION, NO., LAMPS TYPE, WATT, DRIVER TYPE, VOLTAGE, MOUNTING, REMARKS. Includes notes for ceiling types and substitutions.

ELECTRICAL SPECIFICATIONS PART 1 - GENERAL. Includes sections for PART 2 - PRODUCTS and PART 3 - EXECUTION. Details requirements for materials, installation, and testing.

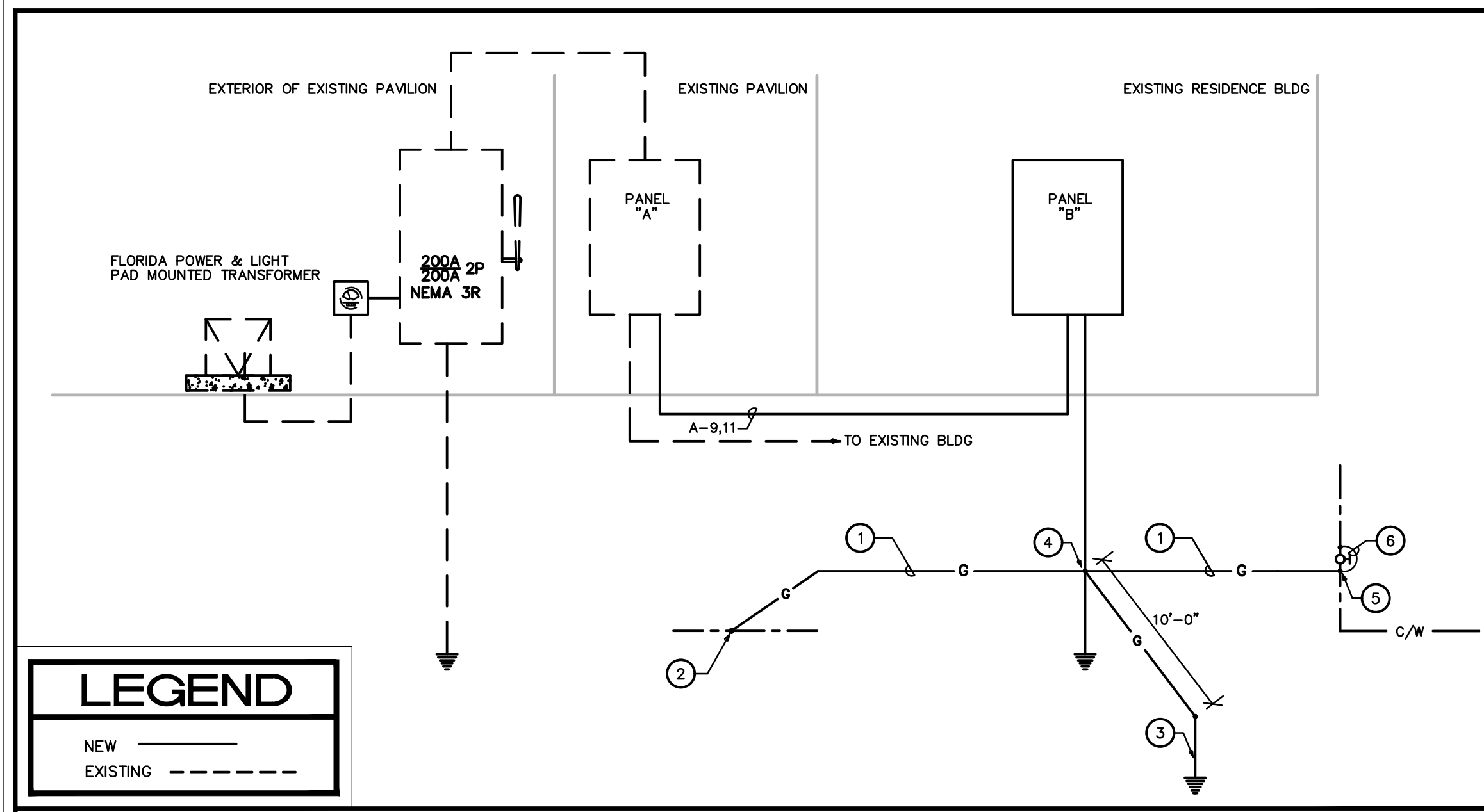
ELECTRICAL SHEET INDEX table with columns: SHEET NO., TITLE. Lists sheets E0.1 (ELECTRICAL NOTES, LEGEND & INDEX), E2.1 (LIGHTING PLAN), and E3.1 (POWER PLAN).

ELECTRICAL LEGEND. Lists various electrical symbols and their corresponding descriptions, such as TELEPHONE OUTLET, DATA OUTLET, RECEPTACLE, and SWITCH.

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL "A". Table listing load data for existing equipment including lighting, receptacles, and pumps.

SCHEDULE OF BRANCH CIRCUIT PANEL "B". Table listing load data for proposed equipment including lighting, receptacles, and space heaters.

KEY NOTES. A list of 6 notes providing specific instructions for grounding, connections, and bonding.



Project: JONES' PIER CONSERVATION AREA

HISTORIC RESIDENCE MUSEUM 7770 Jungle Trail, Vero Beach FL 32963 for Indian River County Parks Division

Issues table with columns: No., Date, Description. Lists items like GRANT SUBMITTAL, COORDINATION, and BID PACKAGE.

Architect table with columns: No., Description. Lists various architectural notes and specifications.

DONADIO & Associates, Architects P.A. Logo and contact information including address and phone number.

Consultant table with columns: No., Description. Lists various consultant notes.

Reference North arrow and drawing title 'E0.1'. Includes project information and sheet number.

ELECTRICAL NOTES. Issued for review. Includes project manager information and a signature block for the principal.

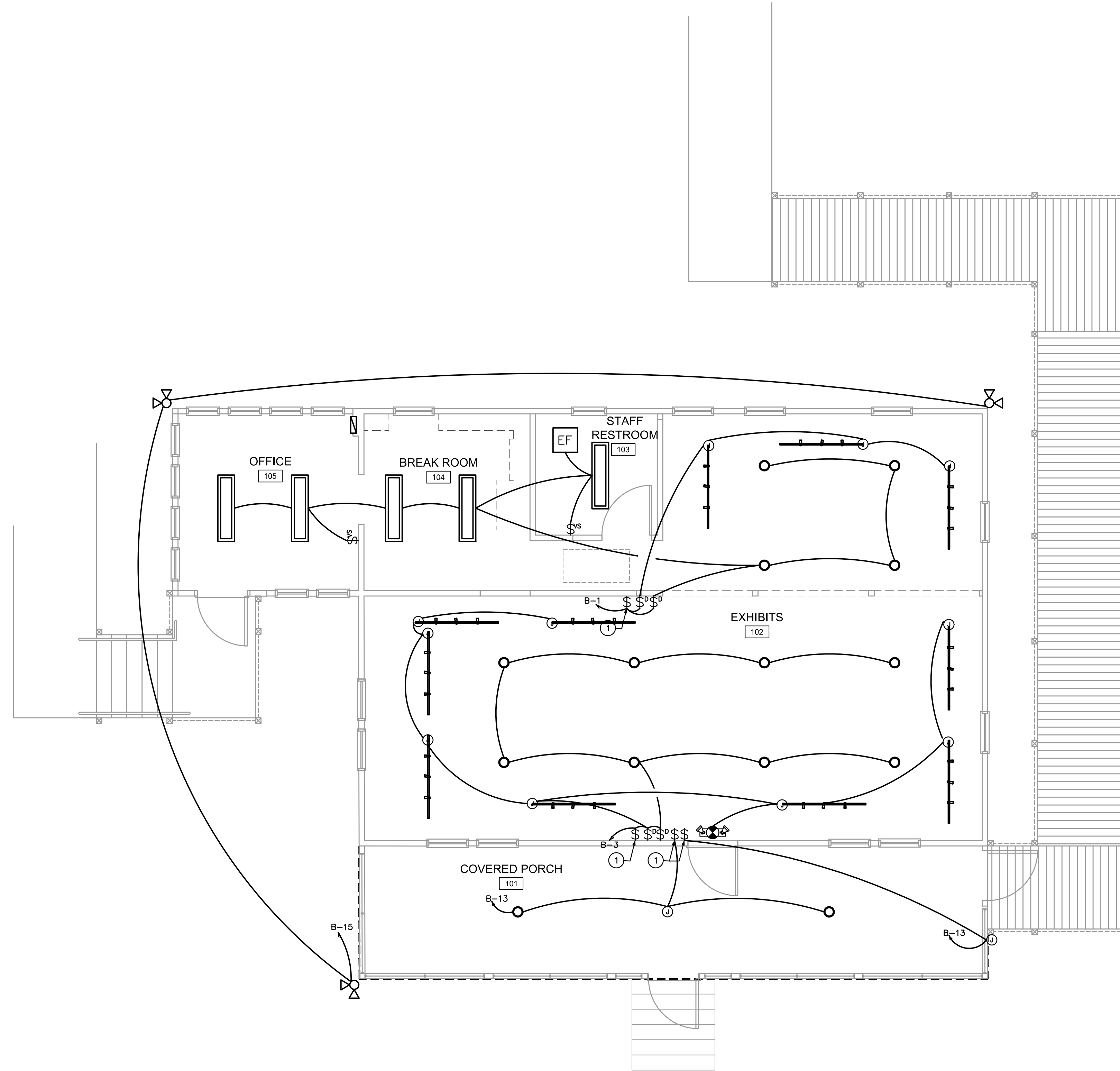
Cert. No.: 12,456 Date Signed: E0.1

**HISTORIC
RESIDENCE
MUSEUM**

7770 Jungle Trail
Vero Beach FL 32963

for
Indian River County Parks
Division

Key Plan:

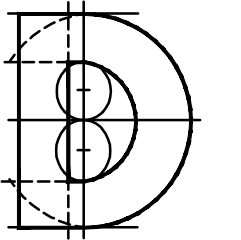


LIGHTING PLAN
1/4"=1'-0" NORTH

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.**

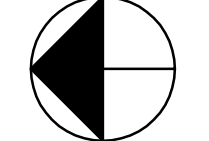
2001 9th Avenue, Suite 308
Vero Beach, FL 32960
Tel: 772.784.2929
Fax: 772.562.8600
License No. AA0002238
www.donadio-arch.com

Consultant:

KEY NOTES	
①	INTERMATIC DIGITAL TIMER SWITCH "EI600".

Drawing Title:

Reference North



LIGHTING PLAN

ISSUED FOR REVIEW		NOT FOR PRICING OR CONSTRUCTION	
KAMM CONSULTING PROJECT #: 2021-0390			
PROJECT MANAGER: DUANE MILLAR			
1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.555.1744 bbrown@kammconsulting.com Certification of Authorization #8189			
PRINCIPAL Bobby L. Brown	Florida License #58232	_____ date	_____ signed

Dm:	Dwg. File:
JLH	XREF File:
TD	Plot File:
Project No.: 2018-23.03	Sheet No.:

Cert. No.: 12,456

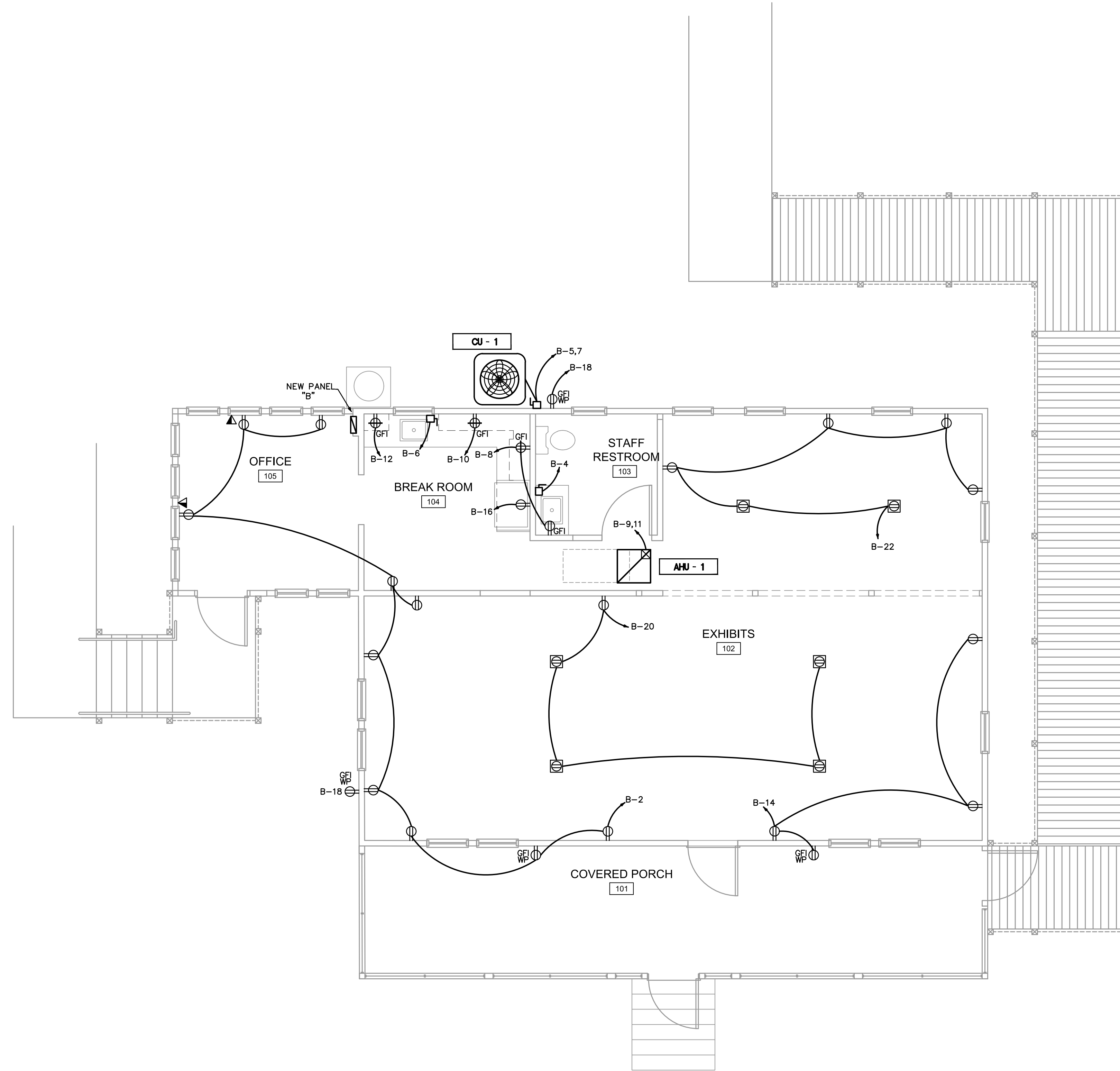
Date Signed:

E2.1

**HISTORIC
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MUSEUM**

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

Key Plan:

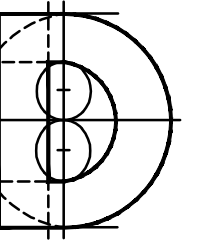


POWER PLAN
1/4"=1'-0" NORTH

Issues:

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

Architect:



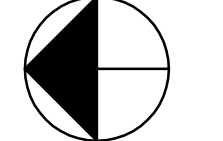
**DONADIO
& Associates, Architects P.A.**

2001 9th Avenue, Suite 308
Vero Beach, FL 32960
Tel: 772.784.2929
Fax: 772.562.8600
License No. AA0002238
www.donadioarch.com

Consultant:

Drawing Title:

Reference North



POWER PLAN

ISSUED FOR REVIEW		NOT FOR PRICING OR CONSTRUCTION	
KAMM CONSULTING PROJECT #:		2021-0390	
PROJECT MANAGER:		DUANE MILLAR	
1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.555.1744 bbrown@kammconsulting.com Certification of Authorization #8189			
PRINCIPAL	Florida License #58232	_____ duc	_____ signed

Dwg. File:	JLH
XREF File:	TD
Project No.:	2018-23.03
Plot File:	
Sheet No.:	

Cert. No.: 12,456

Date Signed:

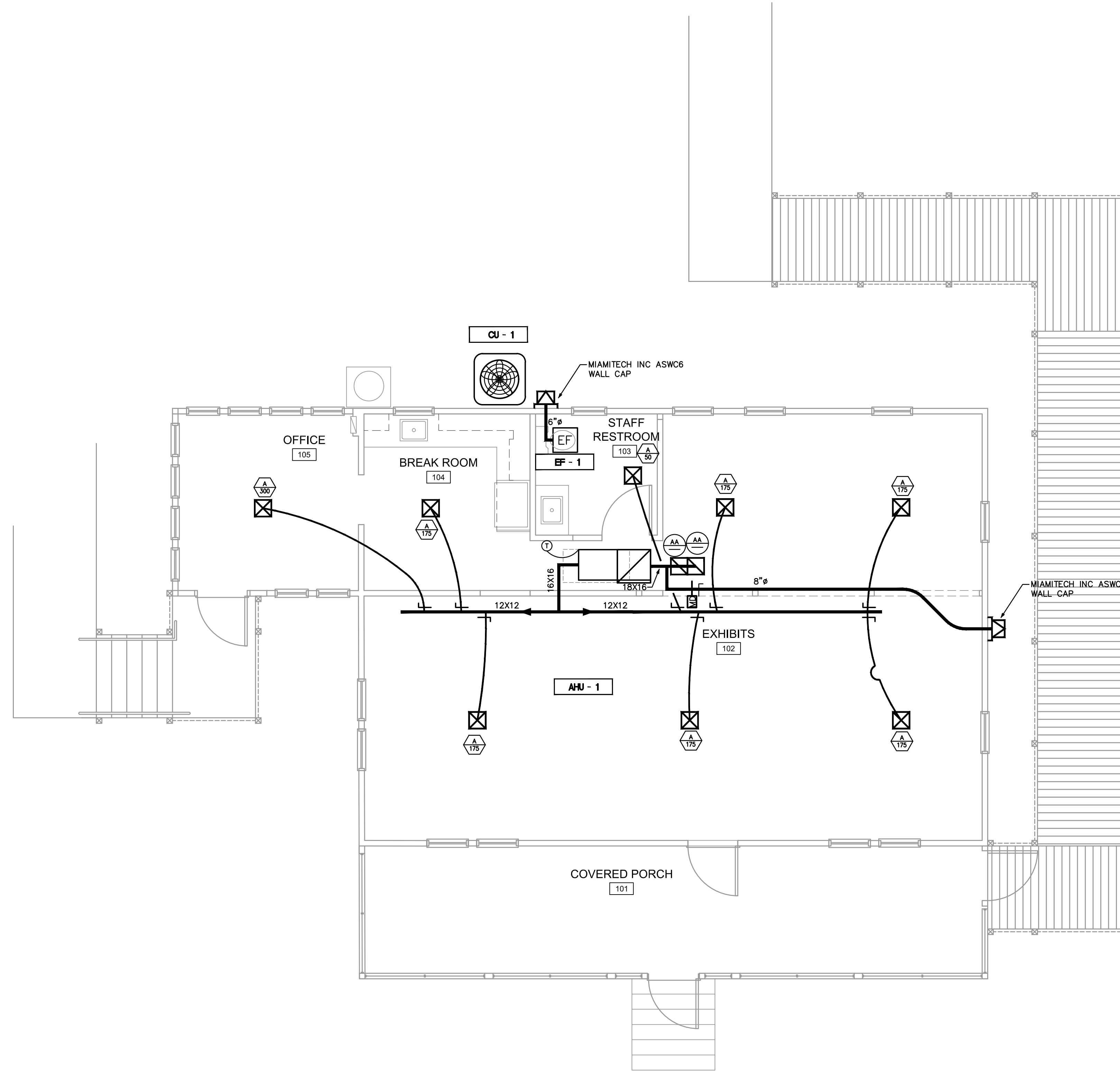
E3.1

**HISTORIC
RESIDENCE
MUSEUM**

7770 Jungle Trail
Vero Beach FL 32963

for
Indian River County Parks
Division

Key Plan:

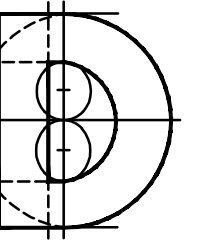


MECHANICAL PLAN
1/4"=1'-0" NORTH

Issues:

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

Architect:



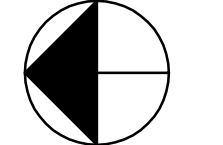
**DONADIO
& Associates, Architects P.A.**

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Vero Beach, FL 32960
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Fax: 772.562.8600
License No. AA0002238
www.donadioarch.com

Consultant:

Drawing Title:

Reference North



MECHANICAL PLAN

ISSUED FOR REVIEW		NOT FOR PRICING OR CONSTRUCTION	
KAMM CONSULTING PROJECT #: 2021-0390			
PROJECT MANAGER: DUANE MILLAR			
KAMM Consulting		1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.555.1744 bbrown@kammconsulting.com Certification of Authorization #8189	
PRINCIPAL Bobby L. Brown	Florida License #58232	_____ duc	_____ signed

Drm:	Dwg. File:
JLH	XREF File:
TD	Plot File:
Project No.: 2018-23.03	Sheet No.:

Cert. No.: 12,456

Date Signed:

M2.1

HISTORIC RESIDENCE MUSEUM
7770 Jungle Trail
Vero Beach FL 32963
for
Indian River County Parks Division

Key Plan:

AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE

CONDENSING UNIT															
CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER/PLV	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
CU-1	TRANE/4TR7040B	4.0	1	17.0	R410A/-	3/8"/7/8	1	2.8	1	20.4	240/1/60	28/45	259	37X34X45	1-8

AIR HANDLING UNIT																
AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P. ("W.G.)	ENT. DB/MB	LEAV. DB/MB	ROWS/FPI	FAN HP/FLA	HEATER KW	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES
AHU-1	TRANE/TAMB9A0C48	47.7	37.2	1400	195	0.5	78/65	56.2/54.8	-	0.75-5.0	5.76	240/1/60	41/45	174	21X23X61	1-8

NOTES:

- UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: CARRIER, YORK, ETC.
- PROVIDE WITH ELECTRIC EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES
- PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
- PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION.
- PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
- PROVIDE DISCONNECT BY ELECTRICAL CONTRACTOR FOR C.U., COORDINATE PRIOR TO PURCHASING
- 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.
- 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

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	-

NOTES:

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

SUPPLY AIR GRILLE SCHEDULE

TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	TITUS/ TDCA-AA	12X12	SEE SCH.	ALUM.	NOTE #3	-	-	4-WAY	MAX. 30	SEE SCH.	1-6

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

GENERAL NOTES:

- PROVIDE SPIN-IN COLLAR AT TRUNK TO FLEX DUCT CONNECTION.
- PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLAN
- REFER TO ARCHITECT PLANS FOR CEILING TYPE.
- CONTRACTOR TO COORDINATE FINAL SELECTION WITH ARCHITECT AND OWNER
- FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
- PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE

FLEX SCHEDULE	
6"	50-125 CFM
8"	130-200 CFM
10"	205-330 CFM
12"	335-450 CFM
14"	455-600 CFM
16"	605-700 CFM

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.

RETURN AIR GRILLE SCHEDULE

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: METALAIR, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES:

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

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
12X12	0-600 CFM		

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.

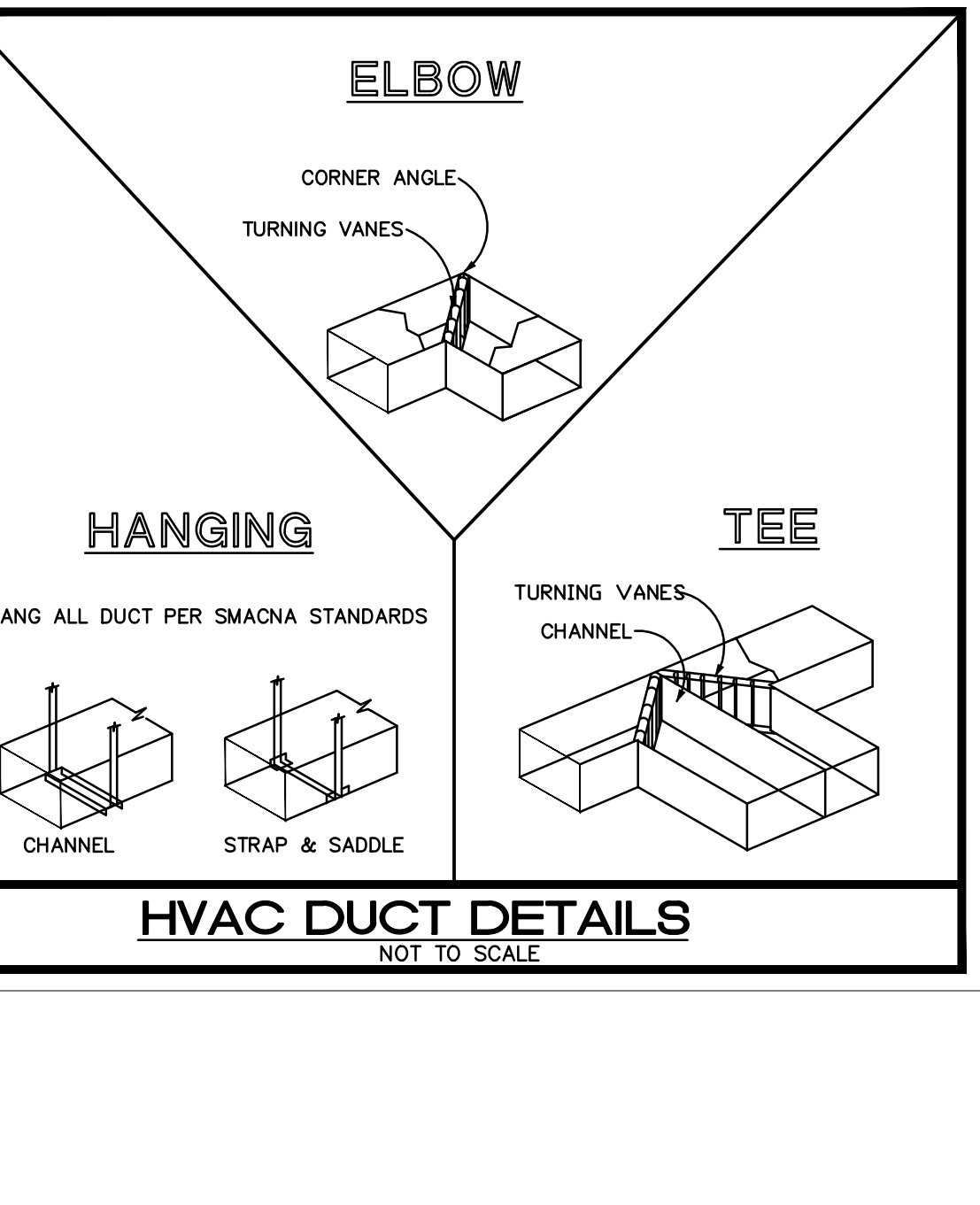
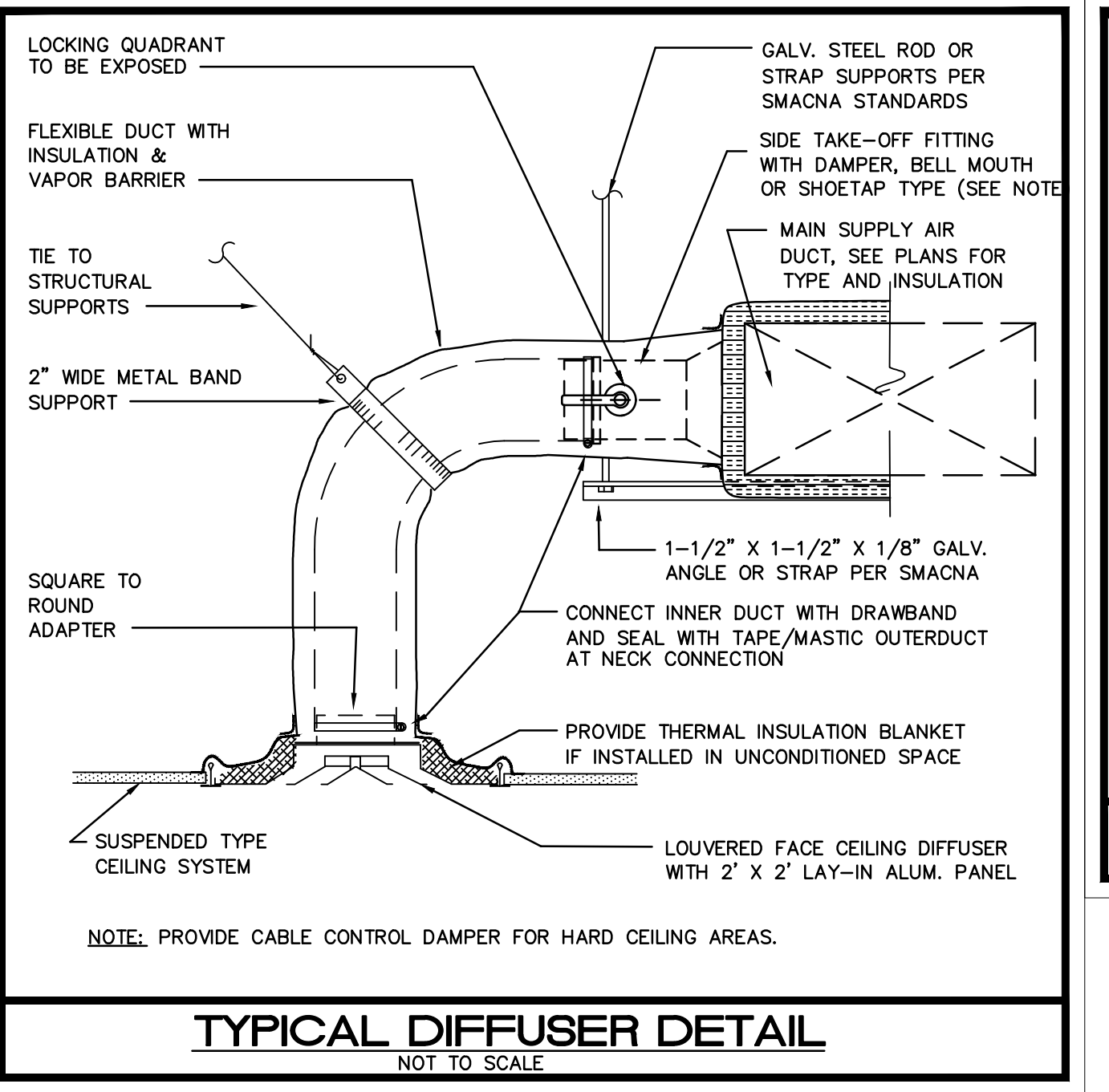
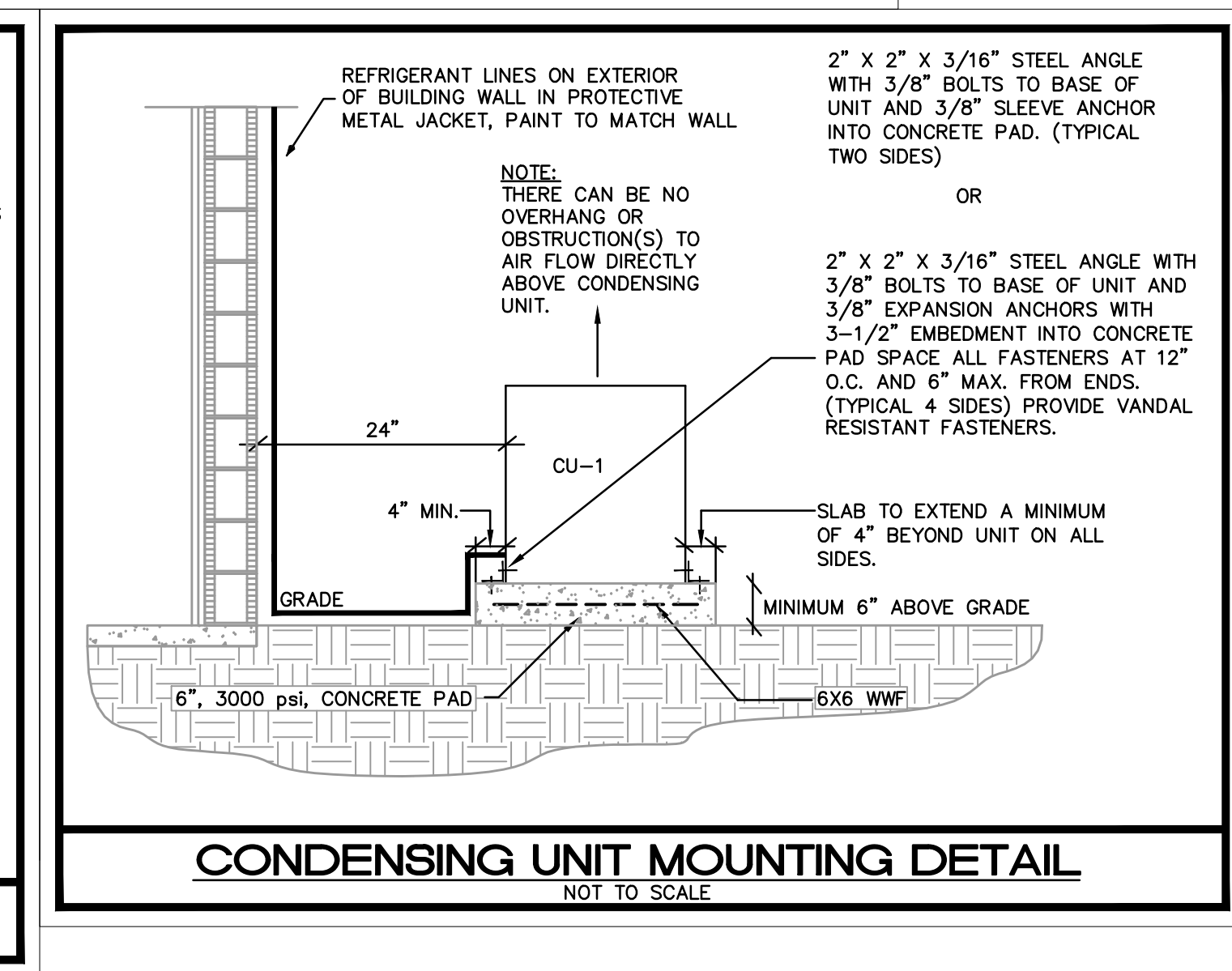
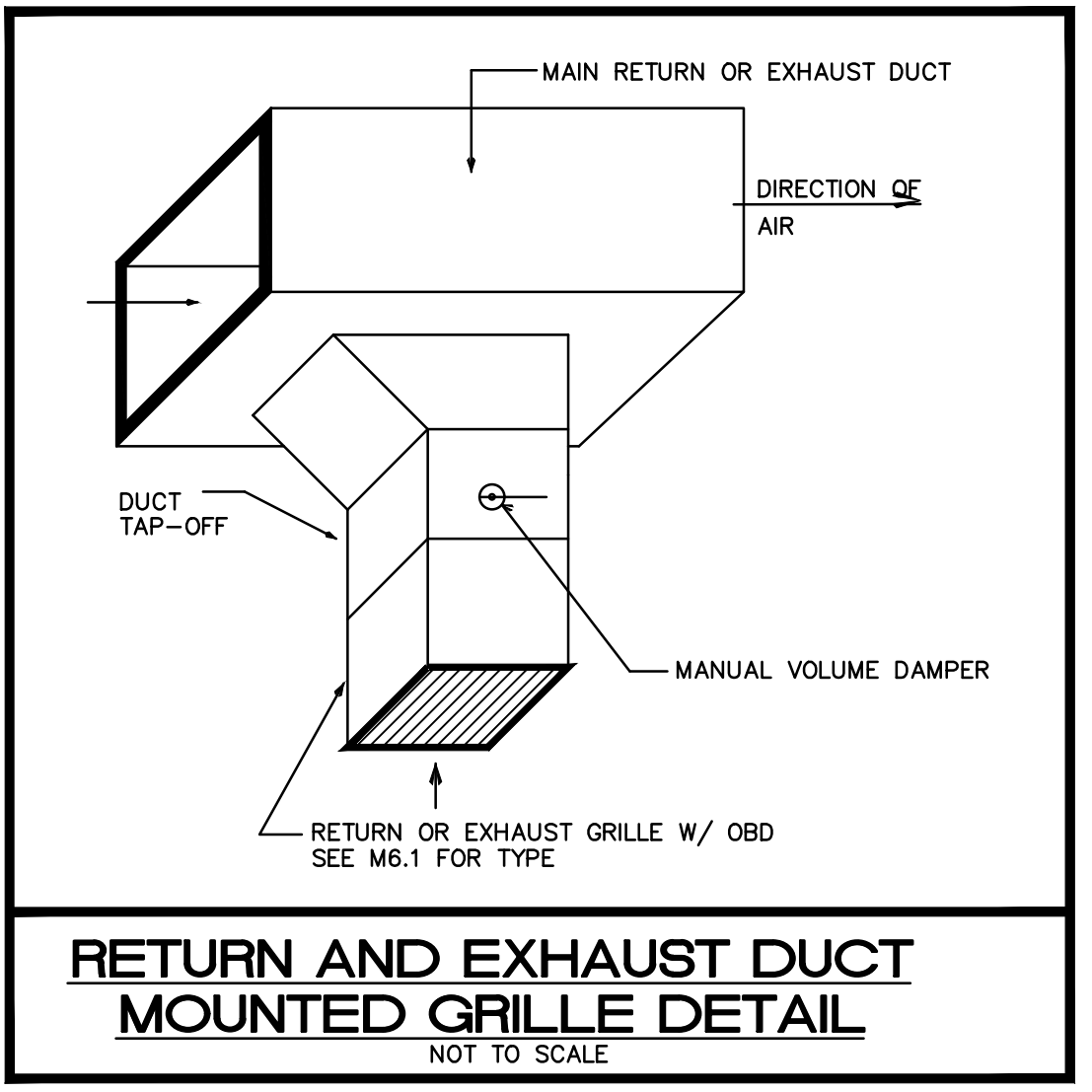
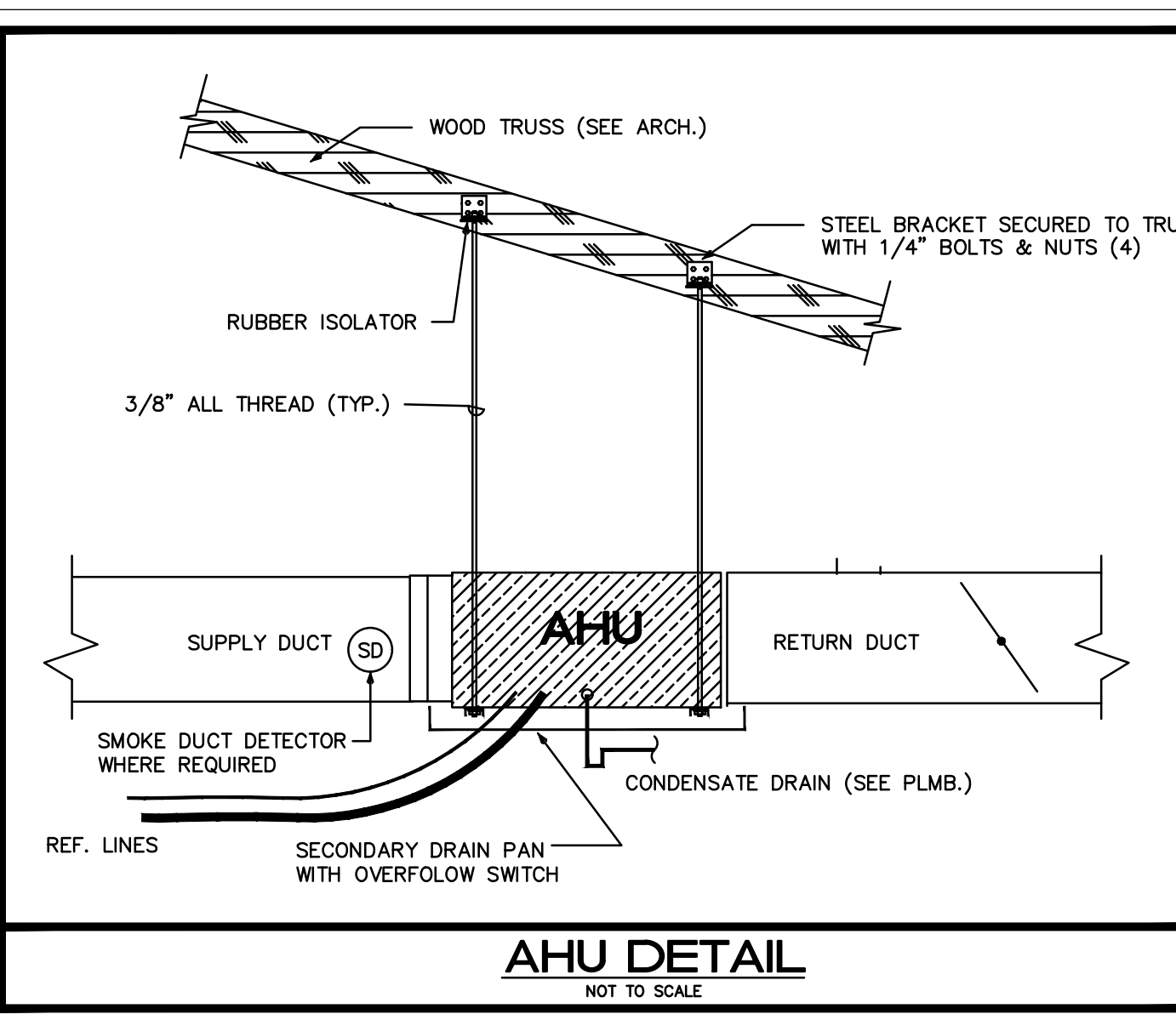
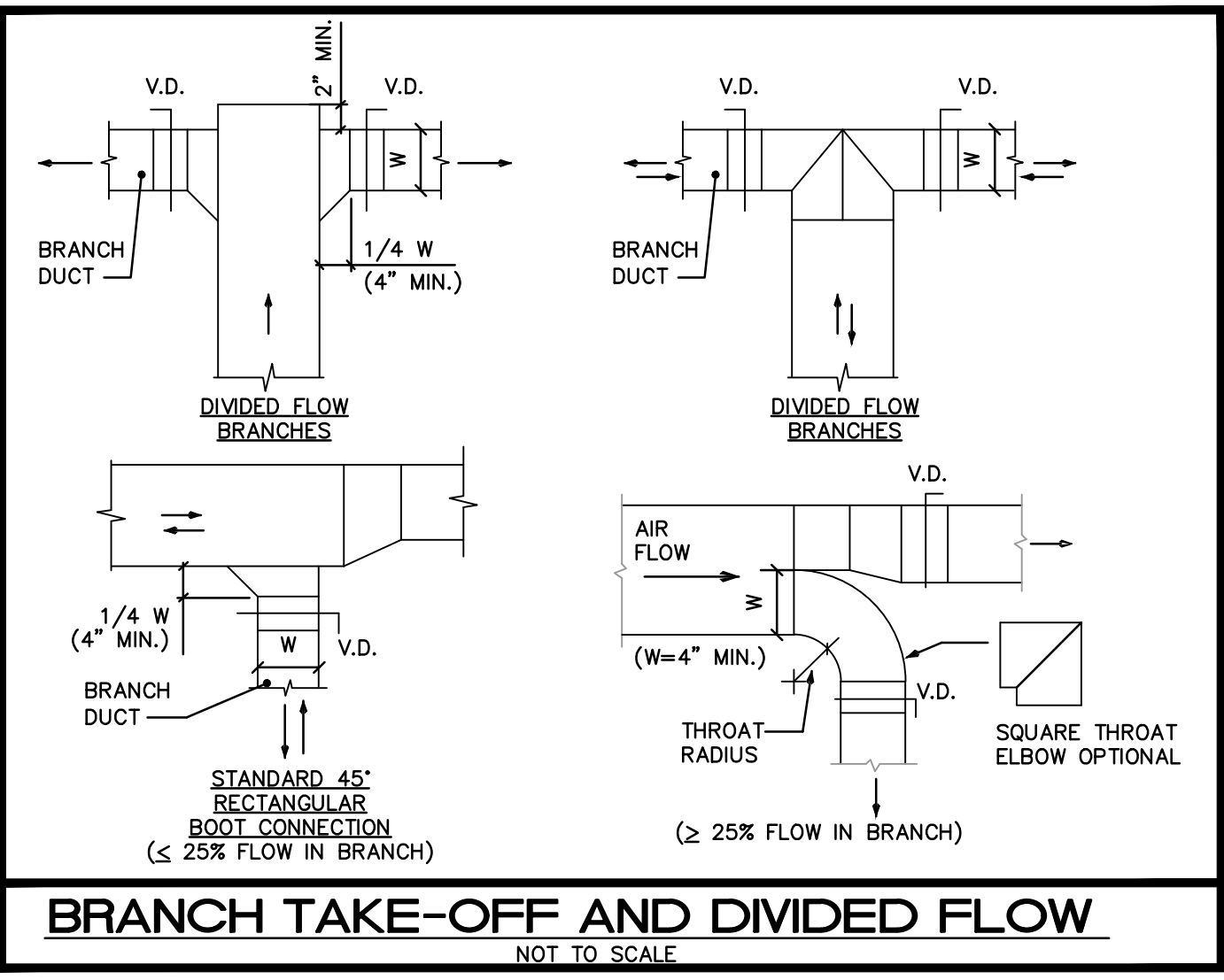
VAV BOX UNIT SCHEDULE

SELECTION DATA		PRIMARY AIR DATA			HEATER DATA			GEN. DATA				NOTES		
UNIT TAG	MANUF. & MODEL(*)	TYPE	INLET DIA.	MIN. CFM	MAX. CFM	MIN. PH(*)	KW	STEPS	VOLTAGE	L _{RH} KW(*) W/ HEAT	WEIGHT(LB) W/ HEAT	L _{WH} KW(*) W/ HEAT	WEIGHT(LB) W/ HEAT	NOTES
VAV-1	TRANE VCEF	SQL DUCT	10	350	1150	*	4.0	1	277/1/60	44X14X20	81	-	-	*
VAV-2	TRANE VCEF	SQL DUCT	10	350	900	*	4.0	1	277/1/60	44X14X20	81	-	-	*
VAV-3	TRANE VCEF	SQL DUCT	10	350	900	*	4.0	1	277/1/60	44X14X20	81	-	-	*

NOTES:

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

- CONTROLS TO BE DDC, PROVIDE ROOM THERMOSTAT/SENSOR WITH OVERRIDE CAPABILITY. PROVIDE INTEGRATED CONTROL INTERFACE WITH EXISTING BUILDING EMS AS REQ'D.
- 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 & OVER 10 KW CAPACITY.
- 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



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, FL 32960
Tel: 772-794-2929
Fax: 772-962-8600
License No. AA0002238
www.donadioarch.com

Consultant:

Drawing Title:



MECHANICAL SCHEDULES

ISSUED FOR REVIEW
NOT FOR PRICING OR CONSTRUCTION

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

KAMM Consulting
1408 Orange Avenue
Fort Pierce, Florida 34950
Phone: 772-555-1744
bbrown@kammconsulting.com
Certification of Authorization #8189

PRINCIPAL: Ready L. Brown, Florida License #58232
DATE: duc
SIGNED: [Signature]

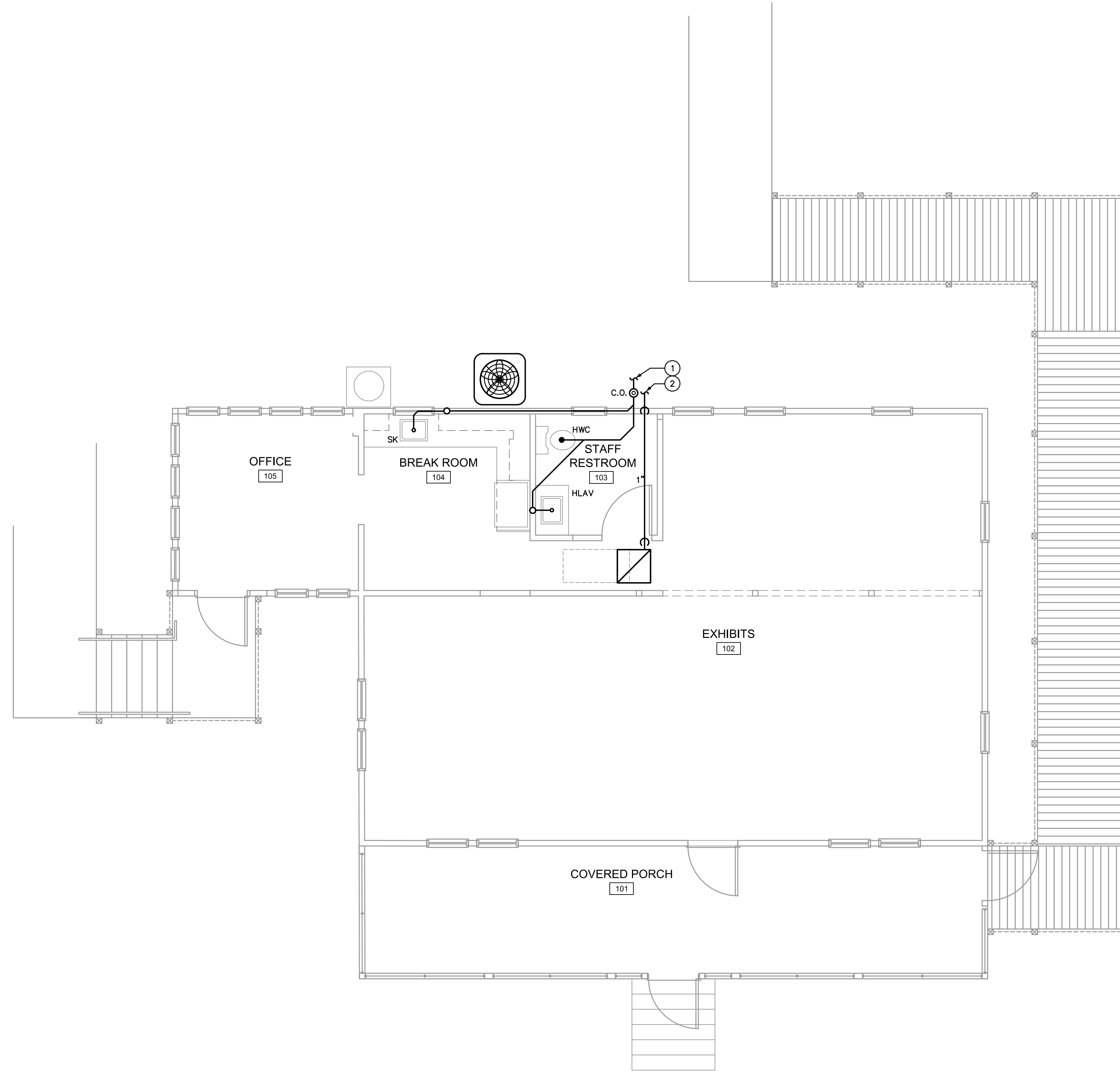
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Dwg. File: J.L.H.
Chd: XREF File: TD
Project No.: 2018-23.03
Plot File: 2018-23.03
Sheet No.:
Cert. No.: 12,456
Date Signed: M6.1

**HISTORIC
RESIDENCE
MUSEUM**

7770 Jungle Trail
Vero Beach FL 32963

for
Indian River County Parks
Division

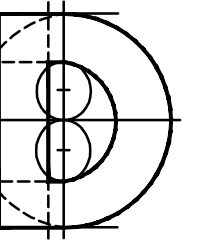
Key Plan:



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, FL 32960
Tel: 772.794.2929
Fax: 772.962.8600
License No. AA0002238
www.donadioarch.com

Consultant:

KEY NOTES

① THE 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
1/4"=1'-0" NORTH

SANITARY PLAN

ISSUED FOR REVIEW
NOT FOR PRICING OR CONSTRUCTION

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

KAMM Consulting 1408 Orange Avenue
Fort Pierce, Florida 34950
Phone 772.555.1744
bbrown@kammconsulting.com
Certification of Authorization #8189

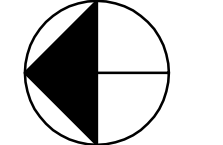
PRINCIPAL: Brady L. Brown Florida License #58232

date

signed

Drawing Title:

Reference North



Dwg. File:	JLH
XREF File:	TD
Project No.:	2018-23.03
Plot File:	
Sheet No.:	

Cert. No.: 12,456

Date Signed:

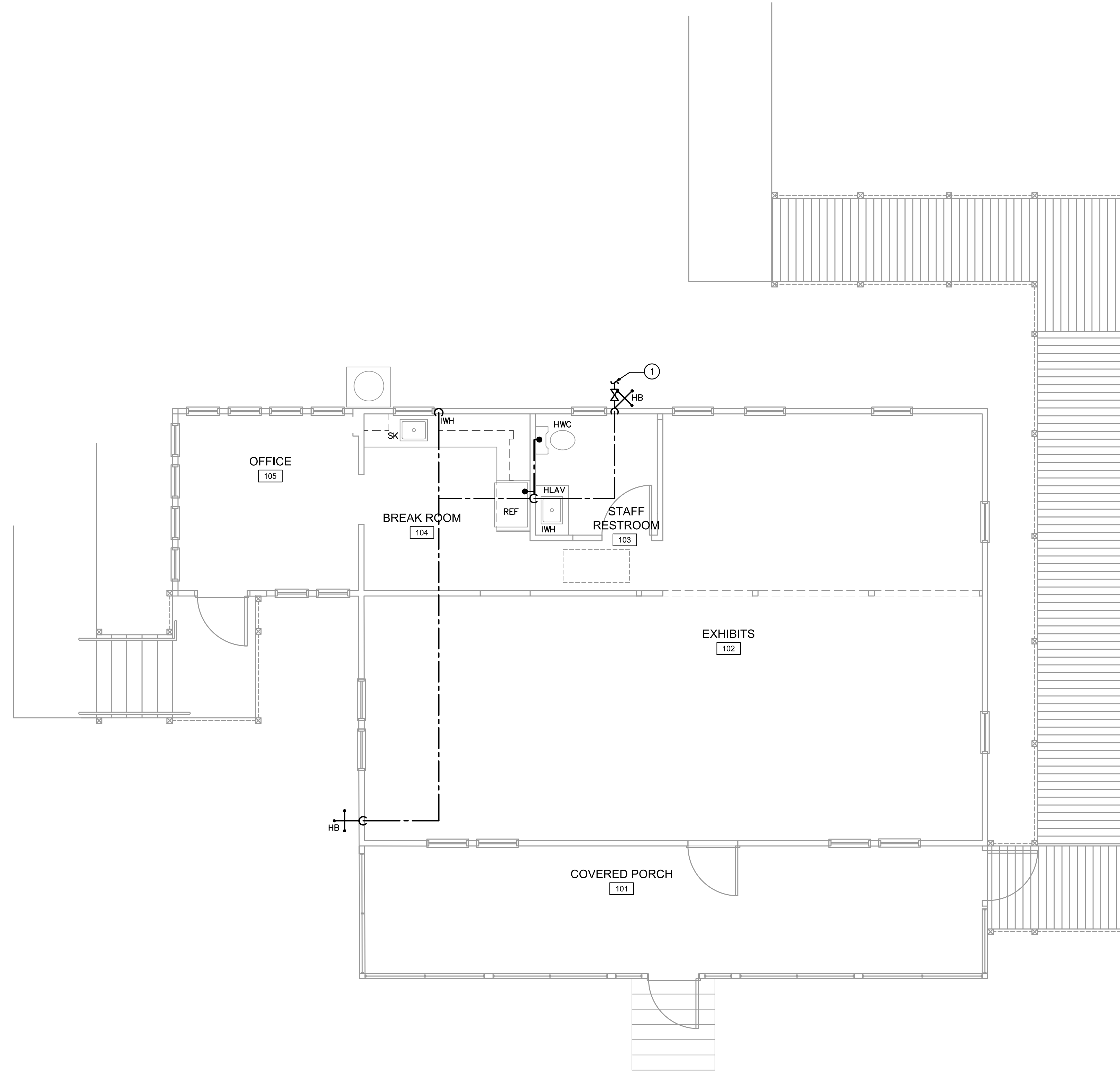
P2.1

**HISTORIC
RESIDENCE
MUSEUM**

7770 Jungle Trail
Vero Beach FL 32963

for
Indian River County Parks
Division

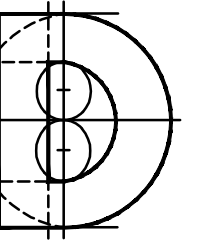
Key Plan:



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.**

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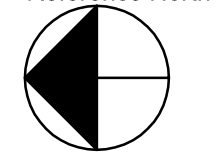
Consultant:

KEY NOTES

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

Drawing Title:

Reference North



DOMESTIC WATER PLAN

ISSUED FOR REVIEW		NOT FOR PRICING OR CONSTRUCTION	
KAMM CONSULTING PROJECT #: 2021-0390			
PROJECT MANAGER: DUANE MILLAR			
1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.555.1744 bbrown@kammconsulting.com Certification of Authorization #8189		Dm: _____ Dwg. File: _____	
PRINCIPAL: Bobby L. Brown Florida License #58232		Chd: J.L.H. XREF File: _____	
Date Signed: _____		TD Project No.: 2018-23.03 Plot File: _____	
signed		Sheet No.: _____	

Cert. No.: 12,456

Date Signed:

P3.1

DOMESTIC WATER PLAN 
1/4"=1'-0" NORTH



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

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.



2/27/20

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
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 301-04along 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

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

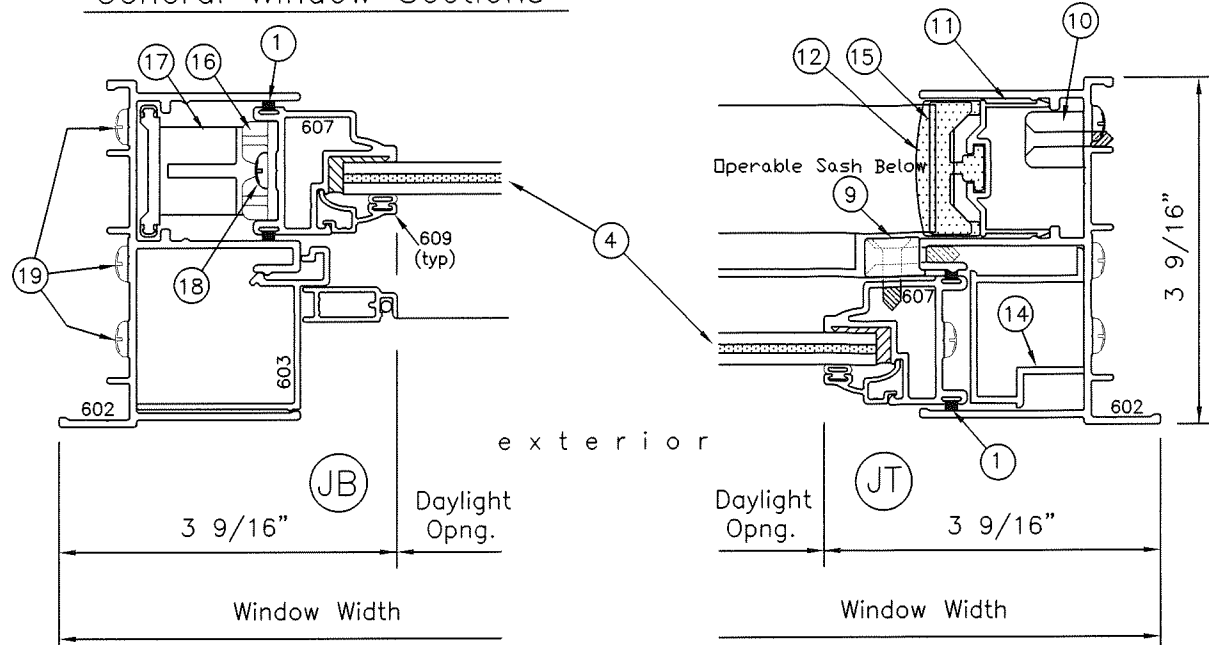
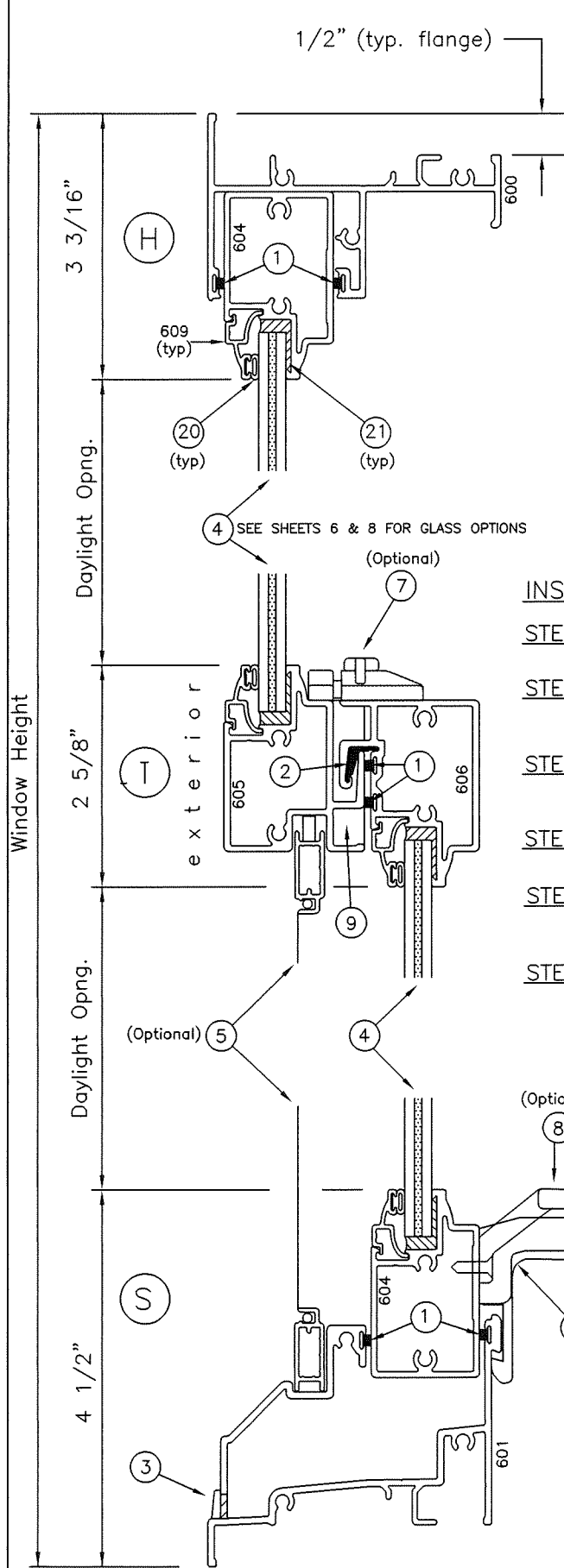
1. Statement letter of conformance with **FBC 6th Edition (2017)** and of no financial interest, dated February 10, 2020, issued by WinDoor Inc., signed and sealed by Lynn Miller, P.E.
2. Statement letter dated 02/10/20 of Successor Professional Engineer adopting as his own the work of another Engineer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

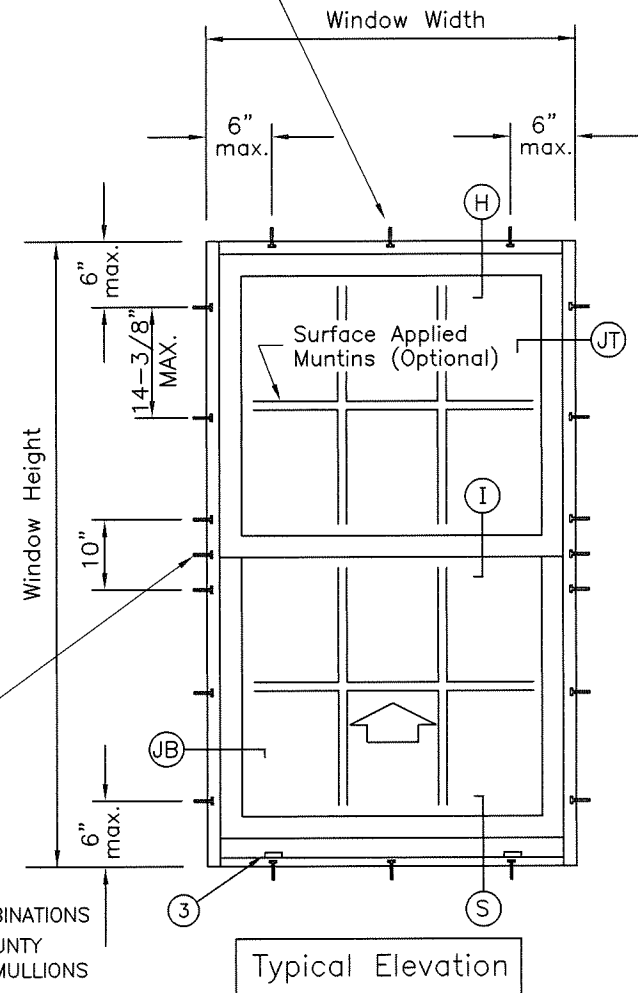
General Window Sections



FRAME AND VENT DETAILS FOR GLASS TYPES 1 & 2. SEE SHEETS 5 & 7 FOR CAPACITIES.

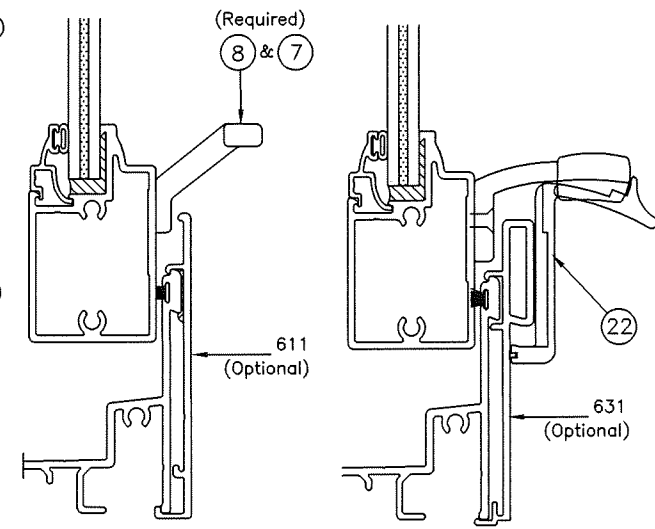
THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Installation Screws
(Refer to sheets
9, 10 & 11 for
spacing information)



INSTRUCTIONS FOR USING CAPACITY CHARTS:

- STEP 1** DETERMINE THE REQUIRED DESIGN PRESSURES FOR A GIVEN WINDOW OPENING.
 - STEP 2** DETERMINE THE CAPACITY OF THE WINDOW SIZE/CONFIGURATION/GLASS TYPE FROM CHARTS ON SHEETS 5 AND 7.
 - STEP 3** DETERMINE THE ANCHOR CAPACITY FROM SHEET 11 FOR SINGLE OPENINGS, APPLICABLE TO ANCHORS TYPE A, B OR C SHOWN ON SHEETS 9 AND 10.
 - STEP 4** IF ALUMINUM BUCKS ARE USED, VERIFY THE BUCK INSTALLATION CAPACITY FROM SHEET 13.
 - STEP 5** FOR UNCLIPPED MULLED WINDOWS DETERMINE MULLION/MULLION ANCHORS CAPACITY FOR 1X4 TUBE MULLION FROM CHARTS ON SHEET 12.
 - STEP 6** IF ALUMINUM BUCKS ARE USED DETERMINE BUCK ANCHORING REQUIREMENTS FROM CHARTS ON SHEET 14.
- THE LOWEST SELECTED VALUE APPLY TO THE INSTALLATION AND MUST EQUAL OR EXCEED THE REQUIRED DESIGN PRESSURES OBTAINED FROM STEP 1.



Standard 12 Psf Sill

Optional 15 PSF Water Bar Adaptors

Can not be used with lock type ⑥

Addl. Anchor
At Mtg. Stile Ends
Reqd. For Higher Loads
(if Applicable)
See Chart On Sheet 11
For Capacity

SERIES '360' ALUMINUM SINGLE HUNG WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER MIAMI-DADE COUNTY APPROVED WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION)/2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ). 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014/2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

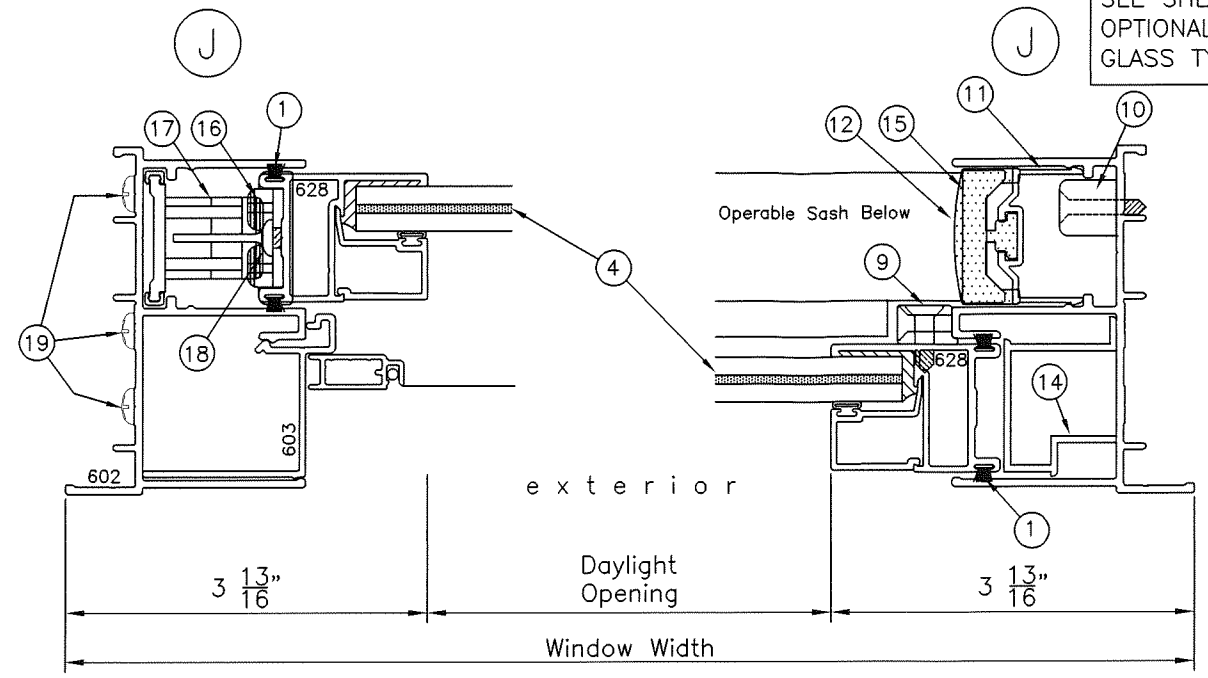
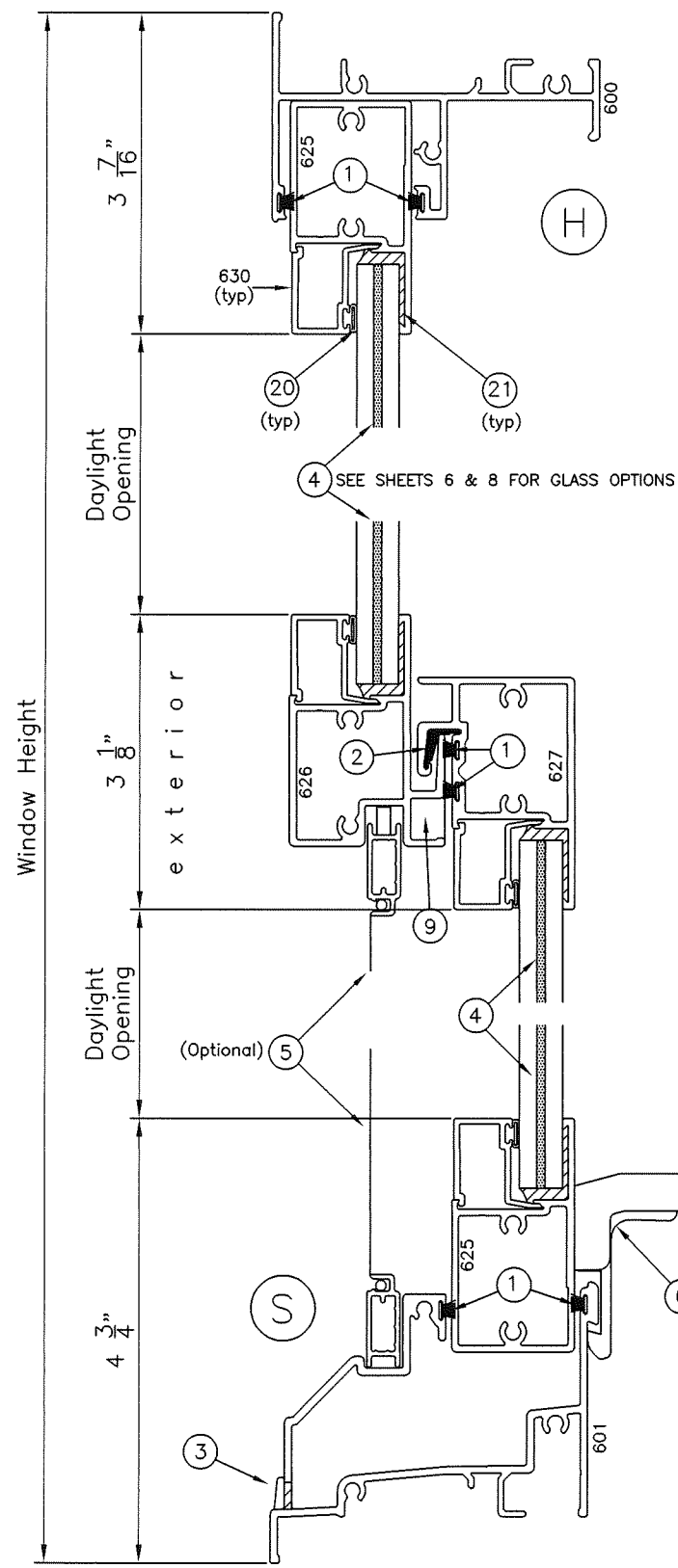
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 26-0213-05
Expiration Date MAY 05, 2025
By *Anthony L. Chandler*
Miami Dade Product Control

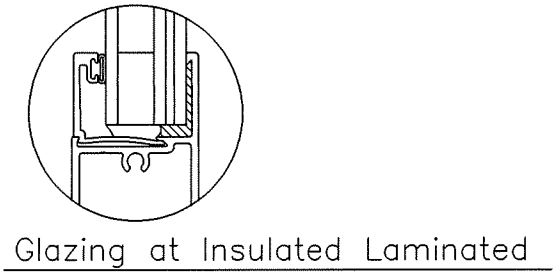
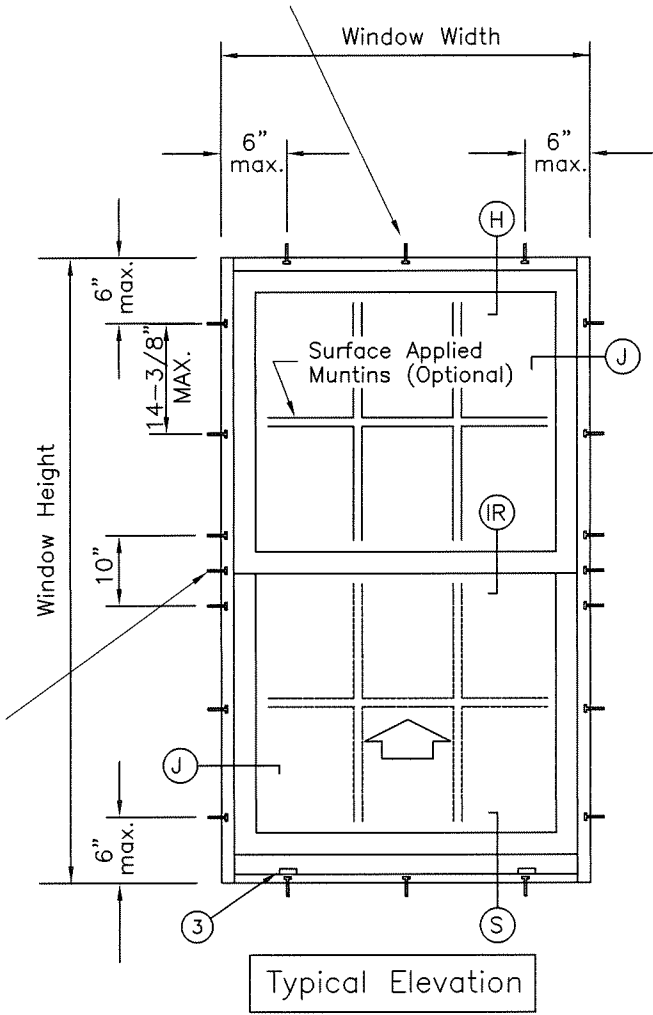
Prepared by A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		Date: 2/10/2020	Rev.
WINDOOR® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400		Drawn By: ALAN KINNE	DWG No. SH360LM-NOA
SERIES "360" ALUM SINGLE HUNG WDW (LM/SMI)		1 OF 14	Sheet
SECTIONS/INSTRUCTIONS		1 OF 14	Sheet
SH360		1 OF 14	Sheet

ANTHONY LYNN MILLER
LICENSE
No. 58705
2/10/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

FRAME AND VENT DETAILS FOR GLASS TYPES 3, 3A, 4 AND 4A.
 SEE SHEETS 6 & 8 FOR CAPACITIES.
 OPTIONAL TOP RAIL SWEEP LOCK NOT AVAILABLE WITH THESE
 GLASS TYPES.

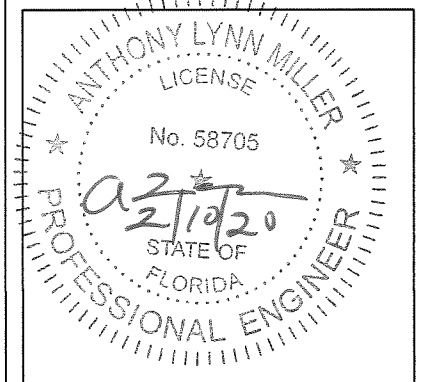


Installation Screws
 (Refer to sheets
 9, 10 & 11 for
 spacing information)



Addl. Anchor
 At Mtg. Stile Ends
 Req'd. For Higher Loads
 (if Applicable)
 See Chart On Sheet 11
 For Capacity

Revision:	
WINDOOR® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296
SERIES "360" ALUM SINGLE HUNG WDW (LMI/SMI)	Date: 2/10/2020
SECTIONS SH360	Drawn By: ALAN KINNE DWG No.: SH360LM-NOA
2 OF 14	Sheet



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 20-0213-05
 Expiration Date 5/31/25
 By: Ishag L. Hamdy
 Miami Dade Product Control

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

Bill of Materials

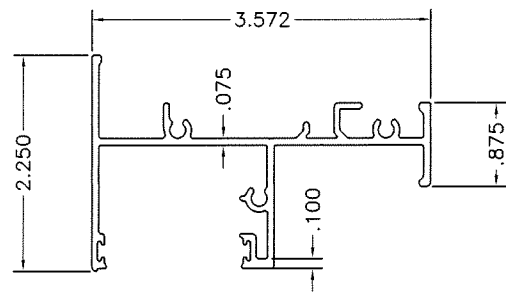
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER	REMARKS
1	W23201NG	AS REQD.	WOOL PILE WITH CENTER SOFT FIN (GRAY)	PILE	ULTRAFAB/SCHLEGEL	
2	CGI-612P	AS REQD.	PLASTIC BUMPER GUIDE	PVC	PROTOTYPE PLASTIC EXTRUSIONS	CONTINUOUS AT INTERLOCK
3	#146-4	2	WEEP HOLE COVER	NYLON	BUILDERS PLASTIC COMPANY	
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-0213-05
 Expiration Date 5/15/25
 By Ischay L. Chandra
 Miami Dade Product Control

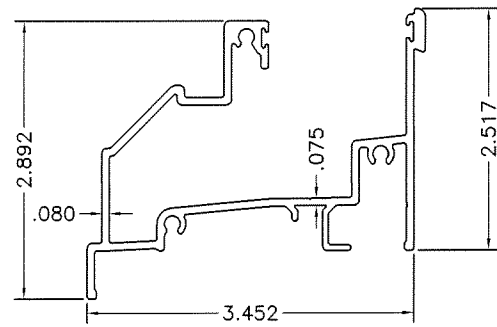
Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	2/10/2020	Rev.
WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	SERIES "360" ALUM SINGLE HUNG WDW (LM/SMI)	ALAN KINNE	DWG No.
		By	SH360LM-NOA
	BILL OF MATERIALS	3 OF 14	Sheet
			Series

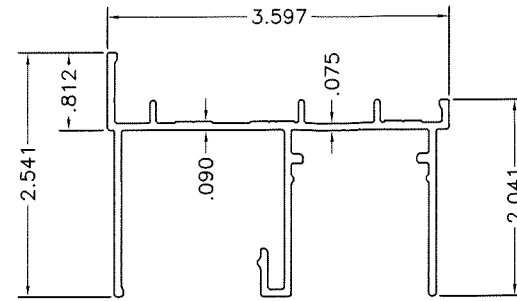
ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 2/10/20
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E.# 58705



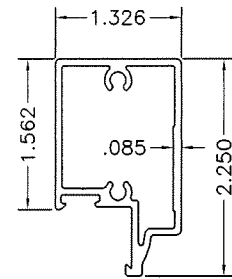
600-Frame Head
6063-T6



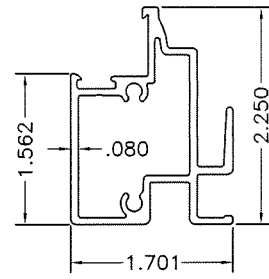
601-Frame Sill
6063-T6



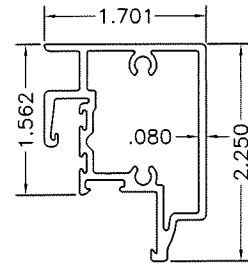
602-Frame Jamb
6063-T6



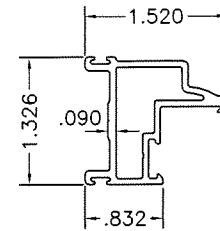
604-Horiz. Rail
6063-T6



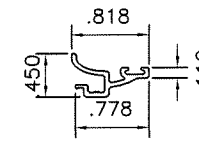
605-Fixed Intlck.
6063-T6



606-Moving Intlck.
6063-T6

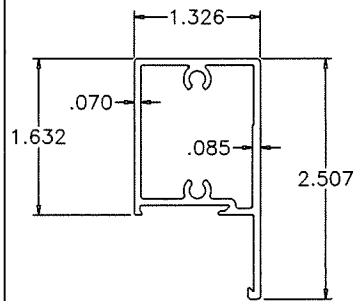


607-Side Rail
6063-T6

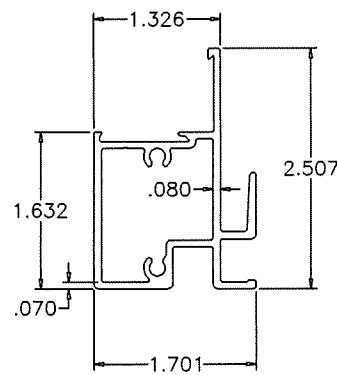


609-Glzg. Bead
6063-T5

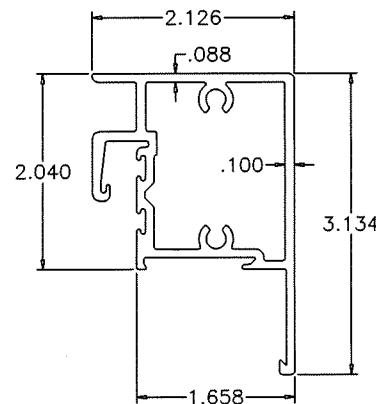
VENT SHAPES FOR GLASS TYPES 1 & 2



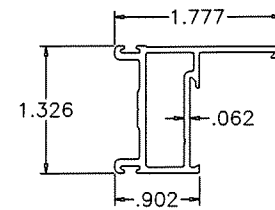
625-Horiz. Rail
6063-T6



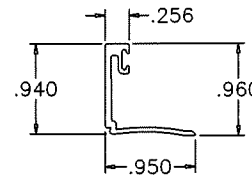
626-Fixed Intlck.
6063-T6



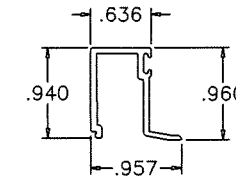
627-Moving Intlck.
6063-T6



628-Side Rail
6063-T6

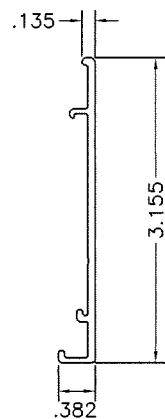


629-Glzg. Bead
6063-T6
For Glass Types 4 & 4A

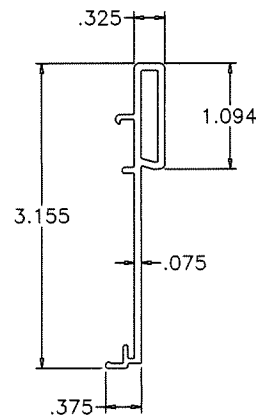


630-Glzg. Bead
6063-T6
For Glass Types 3 & 3A

VENT SHAPES FOR GLASS TYPES 3, 3A, 4 & 4A



611-Waterbar
6063-T5

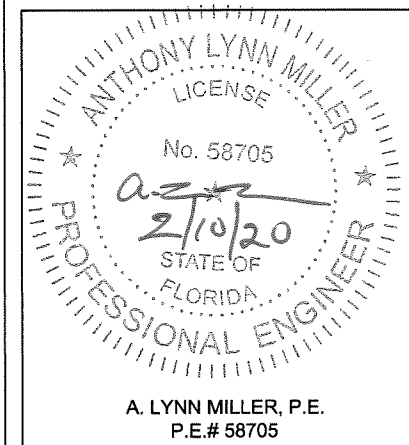


631-Waterbar
6063-T5

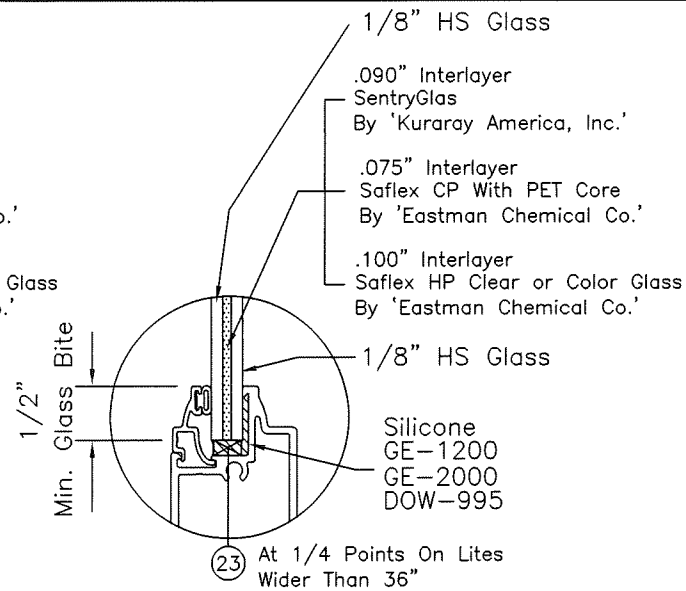
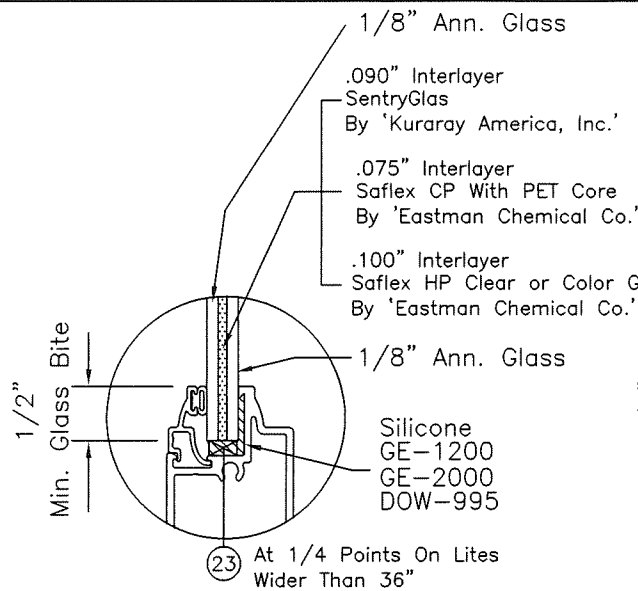
Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	2/10/2020	Rev.	
	By	ALAN KINNE	DWG No.	SH360LM-NOA
WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	Series	SERIES "360" ALUM SINGLE HUNG WDW (LM/SMI)	Sheet	4 OF 14
	Desc.	EXTRUSIONS		

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 20-0213-05
Expiration Date 5/1/2025
By: [Signature]
Miami Dade Product Control



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



Glass Type "1"
5/16" Nominal Glass
Annealed/Annealed

Glass Type "2"
5/16" Nominal Glass
HS/HS

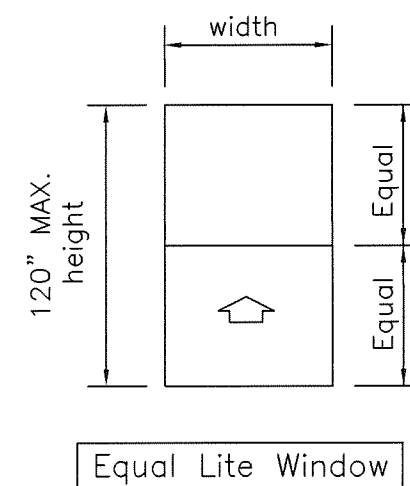
Supplemental Test Results for:
Air Infiltration – Water Leakage Resistance – Forced Entry

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.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	48"	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"		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"	60"	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"		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"	72"	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"		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"	84"	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"		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
54"	74.8	74.8	100.0	120.0	

EQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE '1'		GLASS TYPE '2'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	96"	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"		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"	108"	100.0	142.4	100.0	210.0
30"		100.0	102.2	100.0	120.0
32"		94.9	94.9	100.0	120.0
36"		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"	120"	100.0	120.0	100.0	120.0
30"		90.7	90.7	100.0	120.0
32"		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

EQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE '1'		GLASS TYPE '2'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0
37"		100.0	210.0	100.0	210.0
53-1/8"		100.0	171.1	100.0	210.0
19-1/8"	38-3/8"	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0
37"		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"	63"	100.0	210.0	100.0	210.0
26-1/2"		100.0	207.5	100.0	210.0
37"		100.0	154.9	100.0	210.0
53-1/8"	88.1	88.1	100.0	120.0	
19-1/8"	72"	100.0	210.0	100.0	210.0
26-1/2"		100.0	181.5	100.0	210.0
37"		100.0	146.8	100.0	210.0
53-1/8"	82.0	82.0	100.0	120.0	
19-1/8"	76"	100.0	210.0	100.0	210.0
26-1/2"		100.0	171.4	100.0	210.0
37"		100.0	136.6	100.0	210.0
53-1/8"		80.0	80.0	100.0	120.0



Equal Lite Window

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 20-0213-05
Expiration Date 5/5/25
By Ashley J. Chant
Miami Dade Product Control

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

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

Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	DATE 2/10/2020	BY ALAN KINNE	REV. SH360LM-NOA
WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	SERIES "360" ALUM SINGLE HUNG WDW (LM/SMI)	DESIGN LOAD TABLES	DWG No. 5 OF 14
Sheet		Series	

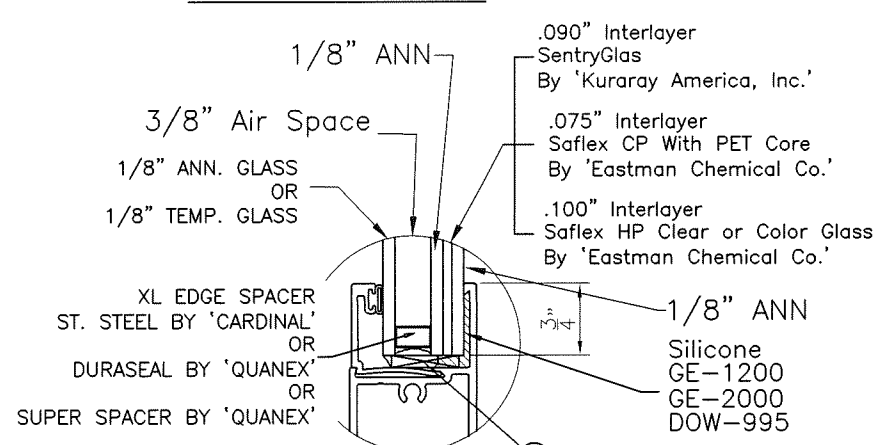
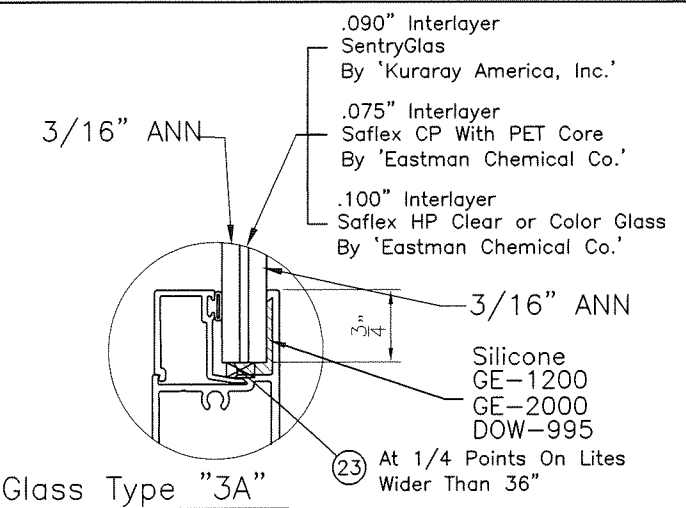
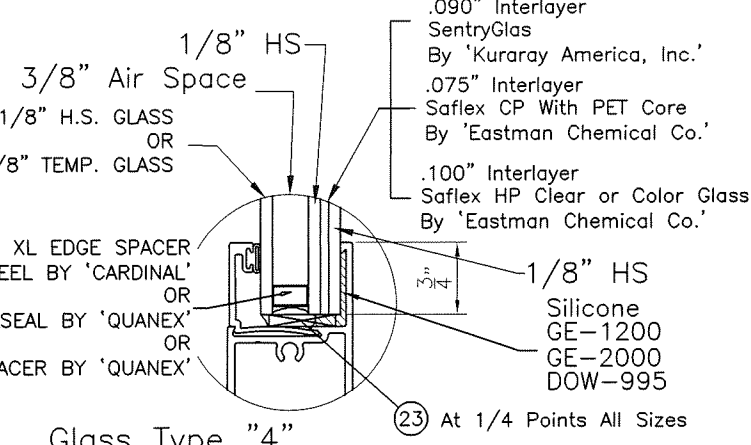
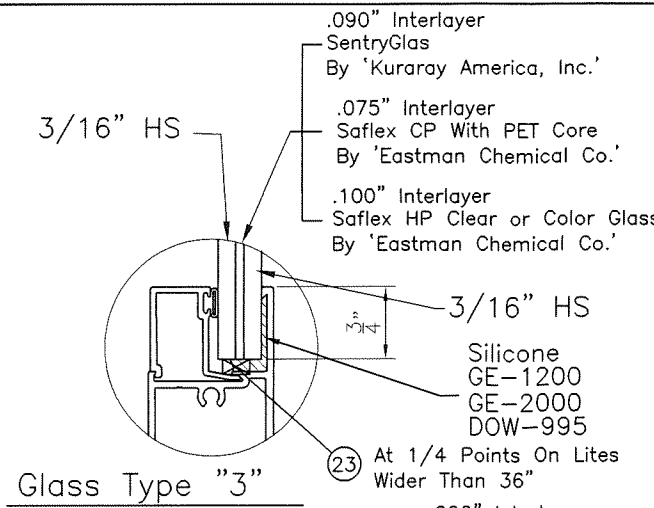
ANTHONY LYNN MILLER
LICENSE
No. 58705
2/10/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

NOTE:
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'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
48"	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"	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
60"	24"	100.0	171.4	100.0	171.4	100.0	171.4	100.0	131.0
	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	200.0
	36"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	188.0
	42"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	156.0
	48"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	135.0
72"	24"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
	30"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	101.0
	32"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	205.0
	36"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	155.0
	42"	100.0	210.0	100.0	191.2	100.0	210.0	100.0	147.0
	48"	100.0	210.0	100.0	198.4	100.0	210.0	100.0	137.0
84"	24"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	119.0
	30"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	102.0
	32"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	180.0
	36"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	136.0
	42"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	129.0
	48"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
96"	24"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	105.0
	30"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	105.0
	32"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	109.0
	36"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	102.0
	42"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	90.8
	48"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	90.6
108"	24"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	80.9
	30"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	83.7
	32"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	80.9
	36"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	83.7
	42"	100.0	120.0	100.0	112.6	100.0	120.0	100.0	73.2
	48"	100.0	120.0	100.0	112.6	100.0	120.0	100.0	74.5
120"	24"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	140.0
	30"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	103.0
	32"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	103.0
	36"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	97.6
	42"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	97.6
	48"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	88.9

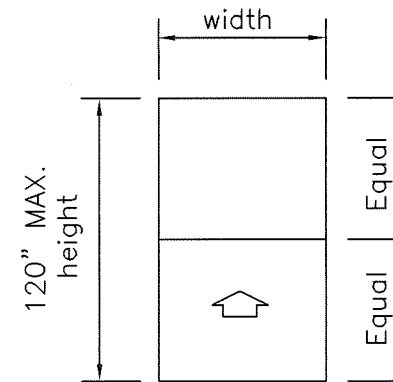


EQUAL LITES WINDOWS

DESIGN LOAD CAPACITY - PSF

WINDOW DIMS.		GLASS TYPE '3'		GLASS TYPE '3A'		GLASS TYPE '4'		GLASS TYPE '4A'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	100.0	210.0	100.0	210.0	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
37"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
53-1/8"	38-3/8"	100.0	210.0	100.0	210.0	100.0	210.0	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	210.0	100.0	210.0	100.0	210.0	100.0	210.0
37"	50-5/8"	100.0	210.0	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	206.9	100.0	180.0
19-1/8"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
26-1/2"	63"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
37"		100.0	210.0	100.0	191.9	100.0	210.0	100.0	145.0
53-1/8"		100.0	120.0	100.0	120.0	100.0	120.0	100.0	99.0
19-1/8"	72"	100.0	210.0	100.0	210.0	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	184.0
37"		100.0	210.0	100.0	196.5	100.0	210.0	100.0	134.0
53-1/8"	76"	100.0	120.0	100.0	120.0	100.0	120.0	94.6	90.0
19-1/8"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	210.0
26-1/2"		100.0	210.0	100.0	210.0	100.0	210.0	100.0	169.0
37"	76"	100.0	210.0	100.0	194.8	100.0	210.0	100.0	124.0
53-1/8"		100.0	120.0	100.0	120.0	100.0	120.0	88.3	85.0

NOTE:
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 Florida
Building Code
Acceptance No. 20-0213-05
Expiration Date 5/5/25
By: [Signature]
Miami Dade Product Control

Revisions:

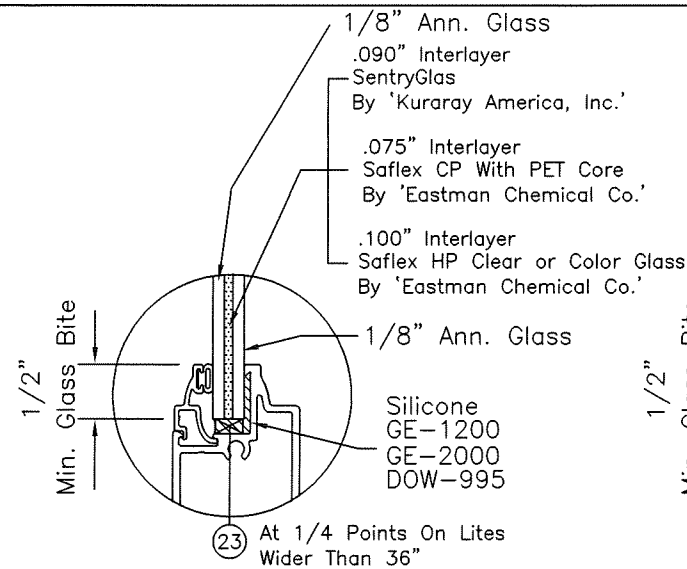
PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

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

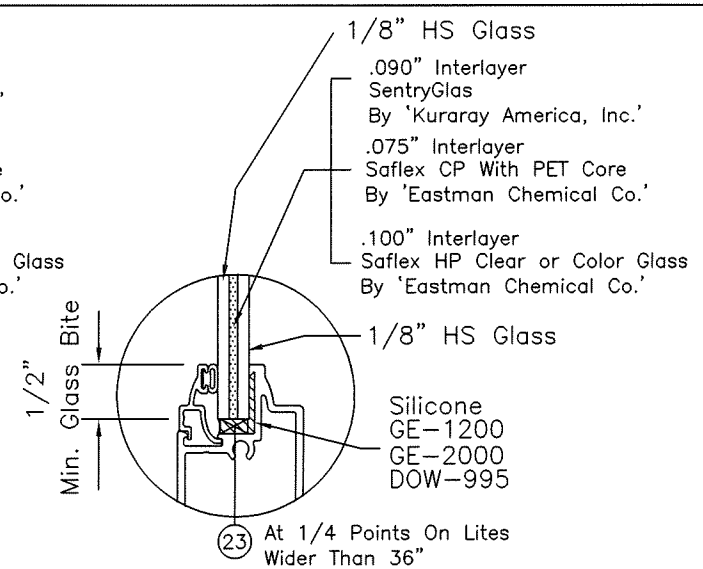
SERIES "360" ALUM SINGLE HUNG WDW (LM/SMI) 2/10/2020
DESIGN LOAD TABLES/GLASS
ALAN KINNE
SH360LM-NOA
6 OF 14
SH360

ANTHONY LYNN MILLER
LICENSE
No. 58705
2/10/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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



Glass Type "1"
5/16" Nominal Glass
Annealed/Annealed



Glass Type "2"
5/16" Nominal Glass
HS/HS

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

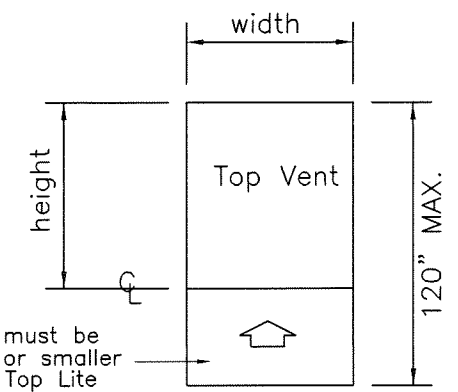
UNEQUAL LITES WINDOWS (ORIEL)								
DESIGN LOAD CAPACITY – PSF								
WINDOW DIMS.		TOP VENT HEIGHT	GLASS TYPE '1'		GLASS TYPE '2'			
WIDTH	HEIGHT		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)		
24"	96" (MAX.)	48"	100.0	161.9	100.0	210.0		
30"			100.0	118.8	100.0	120.0		
32"			100.0	111.9	100.0	120.0		
36"			100.0	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"	108" (MAX.)	54"	100.0	142.4	100.0	210.0		
30"			100.0	102.2	100.0	120.0		
32"			94.9	94.9	100.0	120.0		
36"			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"	120" (MAX.)	60"	100.0	120.0	100.0	120.0		
30"			90.7	90.7	100.0	120.0		
32"			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		
24"			120" (MAX.)	66"	100.0	120.0	100.0	120.0
30"	81.7	81.7			100.0	120.0		
32"	77.7	77.7			100.0	120.0		
36"	67.4	67.4			100.0	120.0		
24"	120" (MAX.)	72"			100.0	113.6	100.0	120.0
30"					77.1	77.1	100.0	120.0
32"			70.1	70.1	100.0	120.0		
36"			60.3	60.3	100.0	120.0		
24"			120" (MAX.)	78"	100.0	120.0	100.0	120.0
30"					71.2	71.2	100.0	120.0
32"	63.8	63.8			100.0	120.0		
24"	120" (MAX.)	84"			100.0	120.0	100.0	120.0
30"					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						
WINDOW DIMS.		TOP VENT HEIGHT	GLASS TYPE '1'		GLASS TYPE '2'	
WIDTH	HEIGHT		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
19-1/8"	96" (MAX.)	48"	100.0	210.0	100.0	210.0
26-1/2"			100.0	138.5	100.0	210.0
37"			99.3	99.3	100.0	120.0
53-1/8"			69.8	69.8	100.0	120.0
19-1/8"	108" (MAX.)	54"	100.0	210.0	100.0	210.0
26-1/2"			100.0	120.0	100.0	120.0
37"			83.6	83.6	100.0	120.0
19-1/8"			100.0	210.0	100.0	210.0
26-1/2"	100.0	108.6	100.0	120.0		
37"	73.7	73.7	100.0	120.0		
19-1/8"	120" (MAX.)	66"	100.0	210.0	100.0	210.0
26-1/2"			99.5	99.5	100.0	120.0
37"			65.7	65.7	100.0	120.0
19-1/8"			100.0	210.0	100.0	210.0
26-1/2"	93.9	93.9	100.0	120.0		
37"	73.7	73.7	100.0	120.0		
19-1/8"	120" (MAX.)	72"	100.0	210.0	100.0	210.0
26-1/2"			93.9	93.9	100.0	120.0
37"			73.7	73.7	100.0	120.0
19-1/8"			100.0	120.0	100.0	120.0
26-1/2"	88.0	88.0	100.0	120.0		
37"	73.7	73.7	100.0	120.0		
19-1/8"	120" (MAX.)	78"	100.0	120.0	100.0	120.0
26-1/2"			88.0	88.0	100.0	120.0
37"			73.7	73.7	100.0	120.0
19-1/8"			100.0	120.0	100.0	120.0
26-1/2"	79.8	79.8	100.0	120.0		
37"	73.7	73.7	100.0	120.0		

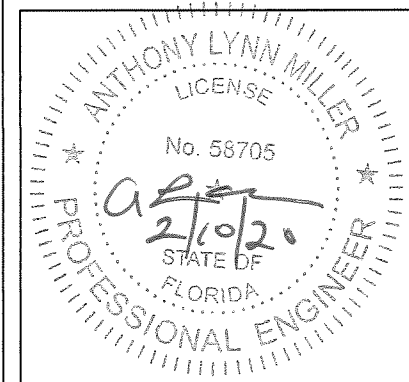
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

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

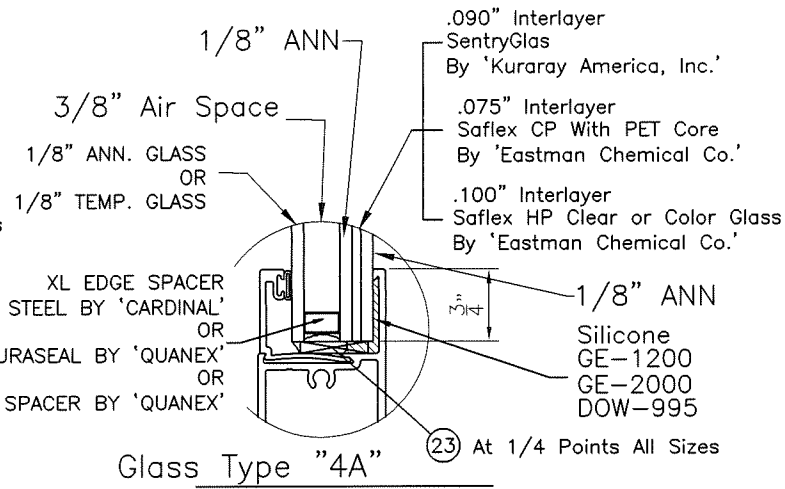
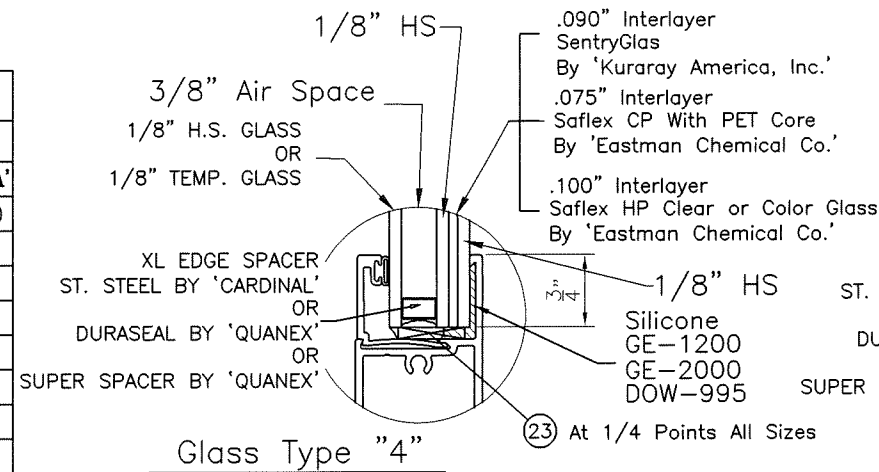
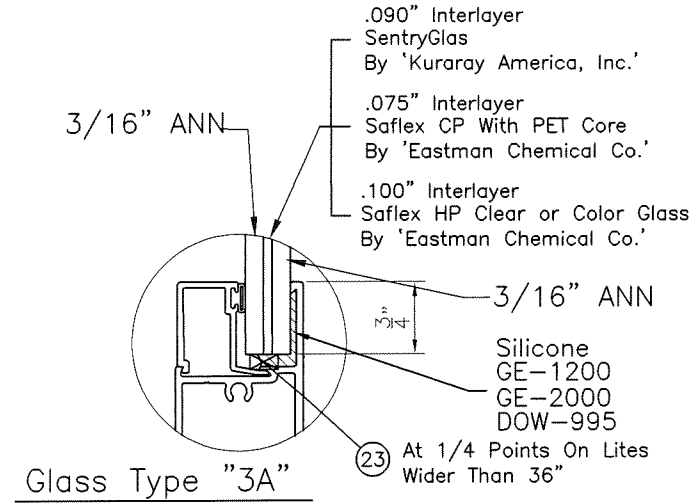
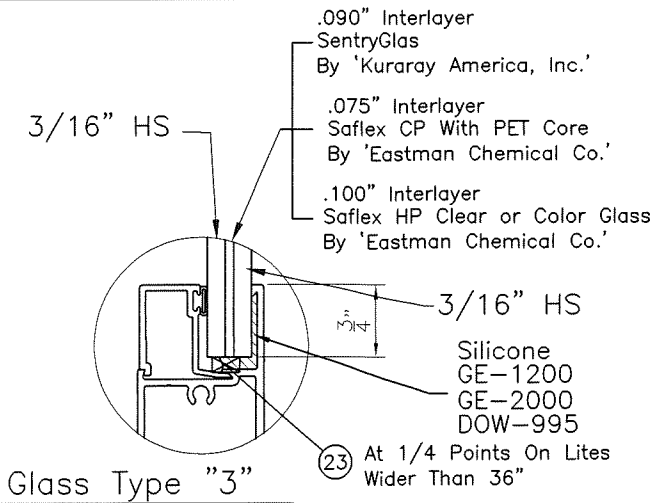
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 20-0213-05
Expiration Date 5/5/25
By *Anthony Lynn Miller*
Miami Dad's Product Control



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

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	2/10/2020	Rev.	
		By	ALAN KINNE	DWG No.	SH360LM-NOA
WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	SERIES "360" ALUM SINGLE HUNG WDW (LM/SMI)	DESIGN LOAD TABLES/GLASS		Sheet	7 OF 14
		Series	SH360	Desc.	SH360LM-NOA

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



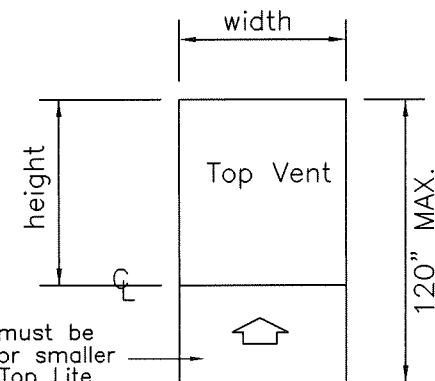
UNEQUAL LITES WINDOWS (ORIEL)										
DESIGN LOAD CAPACITY - PSF										
WINDOW DIMS.		TOP VENT HEIGHT	GLASS TYPE '3'		GLASS TYPE '3A'		GLASS TYPE '4'		GLASS TYPE '4A'	
WIDTH	HEIGHT		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24" 30" 32" 36" 42" 48" 54"	96" (MAX.)	48"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	154.0
			100.0	120.0	100.0	120.0	100.0	120.0	100.0	114.0
			100.0	120.0	100.0	120.0	100.0	120.0	100.0	114.0
			100.0	120.0	100.0	120.0	100.0	120.0	99.9	99.9
			100.0	120.0	100.0	120.0	100.0	120.0	88.8	88.8
			100.0	120.0	100.0	120.0	100.0	120.0	82.3	82.3
24" 30" 32" 36" 42" 48"	108" (MAX.)	54"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	138.0
			100.0	120.0	100.0	120.0	100.0	120.0	100.0	101.0
			100.0	120.0	100.0	120.0	100.0	120.0	100.0	101.0
			100.0	120.0	100.0	120.0	100.0	120.0	87.4	87.4
			100.0	120.0	100.0	120.0	100.0	120.0	78.2	78.2
			100.0	120.0	100.0	112.2	100.0	120.0	71.5	71.5
24" 30" 32" 36" 42"	120" (MAX.)	60"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	127.0
			100.0	120.0	100.0	120.0	100.0	120.0	93.4	93.4
			100.0	120.0	100.0	120.0	100.0	120.0	93.4	93.4
			100.0	120.0	100.0	120.0	100.0	120.0	79.0	79.0
			100.0	120.0	100.0	114.1	100.0	120.0	69.1	69.1
			100.0	120.0	100.0	120.0	100.0	120.0	70.0	70.0
24" 30" 32" 36"	120" (MAX.)	66"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
			100.0	120.0	100.0	120.0	100.0	120.0	83.7	83.7
			100.0	120.0	100.0	120.0	100.0	120.0	83.7	83.7
			100.0	120.0	100.0	120.0	100.0	120.0	70.0	70.0
			100.0	120.0	100.0	120.0	100.0	120.0	117.0	117.0
			100.0	120.0	100.0	120.0	100.0	120.0	76.2	76.2
24" 30" 32" 36"	120" (MAX.)	72"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.0
			100.0	120.0	100.0	120.0	100.0	120.0	76.2	76.2
			100.0	120.0	100.0	120.0	100.0	120.0	76.2	76.2
			100.0	120.0	100.0	120.0	100.0	115.2	61.9	61.9
			100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
			100.0	120.0	100.0	120.0	100.0	120.0	72.2	72.2
24" 30" 32"	120" (MAX.)	78"	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
			100.0	120.0	100.0	120.0	100.0	120.0	72.2	72.2
			100.0	120.0	100.0	120.0	100.0	120.0	72.2	72.2
			100.0	120.0	100.0	120.0	100.0	120.0	118.0	118.0
			100.0	120.0	100.0	120.0	100.0	120.0	68.9	68.9
			100.0	120.0	100.0	120.0	100.0	120.0	68.9	68.9

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

UNEQUAL LITES WINDOWS (ORIEL)										
DESIGN LOAD CAPACITY - PSF										
WINDOW DIMS.		TOP VENT HEIGHT	GLASS TYPE '3'		GLASS TYPE '3A'		GLASS TYPE '4'		GLASS TYPE '4A'	
WIDTH	HEIGHT		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8" 26-1/2" 37" 53-1/8"	96" (MAX.)	48"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	209.0
			100.0	120.0	100.0	120.0	100.0	120.0	100.0	136.0
			100.0	120.0	100.0	120.0	100.0	120.0	97.8	97.8
			100.0	120.0	100.0	114.4	100.0	120.0	75.4	75.4
19-1/8" 26-1/2" 37"	108" (MAX.)	54"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	204.0
			100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
			100.0	120.0	100.0	120.0	100.0	120.0	85.4	85.4
			100.0	120.0	100.0	120.0	100.0	120.0	205.0	205.0
19-1/8" 26-1/2" 37"	120" (MAX.)	60"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	107.0
			100.0	120.0	100.0	120.0	100.0	120.0	100.0	107.0
			100.0	120.0	100.0	120.0	100.0	120.0	77.1	77.1
			100.0	120.0	100.0	204.2	100.0	210.0	100.0	205.0
19-1/8" 26-1/2" 37"	120" (MAX.)	66"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	207.0
			100.0	120.0	100.0	120.0	100.0	120.0	99.7	99.7
			100.0	120.0	100.0	120.0	100.0	120.0	68.4	68.4
			100.0	120.0	100.0	120.0	100.0	210.0	100.0	199.0
19-1/8" 26-1/2" 37"	120" (MAX.)	72"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	199.0
			100.0	120.0	100.0	120.0	100.0	120.0	94.5	94.5
			100.0	120.0	100.0	120.0	100.0	120.0	91.3	91.3
			100.0	120.0	100.0	210.0	100.0	210.0	100.0	192.0
19-1/8" 26-1/2" 37"	120" (MAX.)	78"	100.0	210.0	100.0	210.0	100.0	210.0	100.0	192.0
			100.0	120.0	100.0	120.0	100.0	120.0	91.3	91.3
			100.0	120.0	100.0	120.0	100.0	210.0	100.0	181.0
			100.0	120.0	100.0	120.0	100.0	120.0	89.2	89.2

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

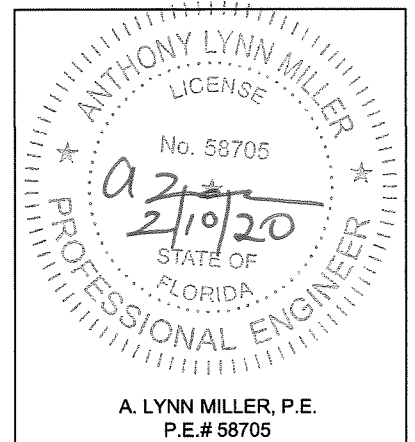
NOTE:
TO QUALIFY FOR SMALL MISSILE IMPACT RATING THE EXTERIOR PANE FOR GLASS TYPES "4" AND "4A" MUST BE TEMPERED. (INSTALLATIONS ABOVE 30 FT. OF GRADE)



This Lite must be Equal to or smaller than the Top Lite

Unequal Lite Window

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 20-0213-05
Expiration Date 5/5/25
By Anthony L. Miller
Miami Dade Product Control



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

Revision:

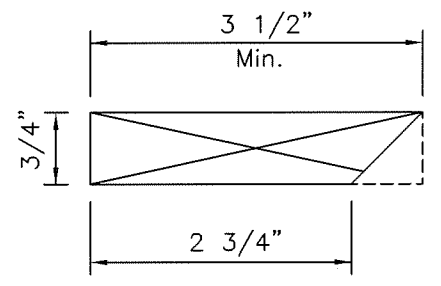
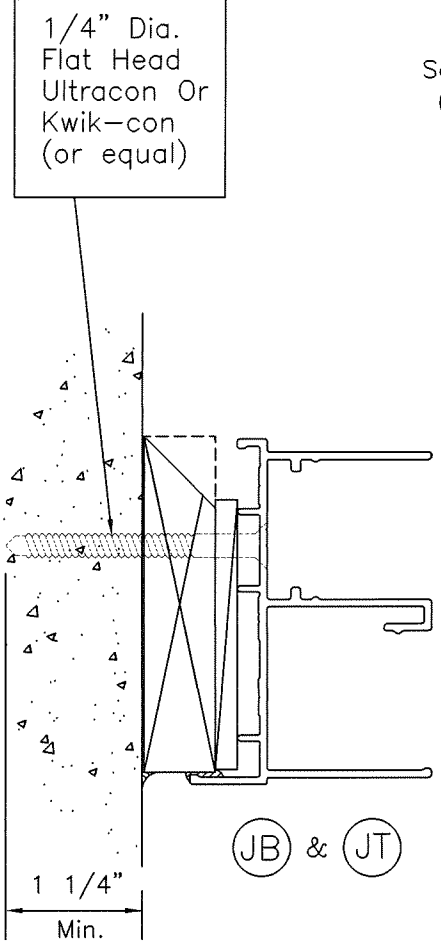
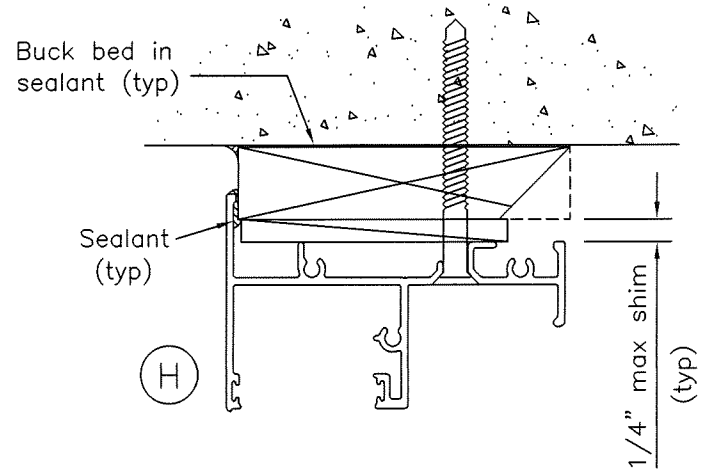
PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

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

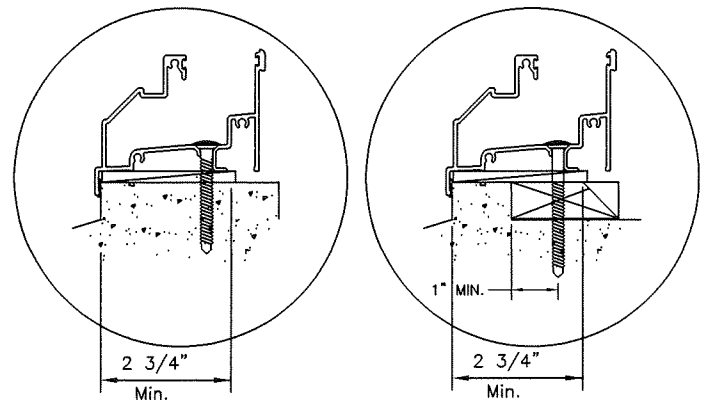
Rev.	2/10/2020	Date
Drawn By	ALAN KINNE	
Sheet No.	8 OF 14	
Series	SH360	
Desc.	DESIGN LOAD TABLES/GLASS	
DMG No.	SH360LM-NOA	

Installation Type "A"

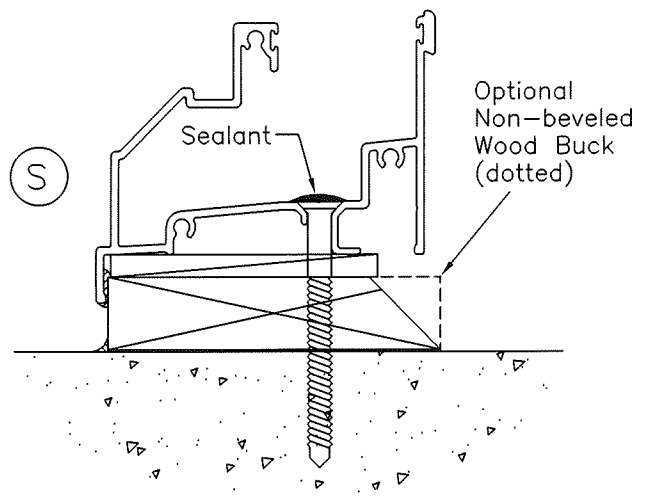
w/ 1 x 4 Beveled P.T. Wood Buck



1 x 4 Beveled P.T. Wood Buck (typ.)



Optional Pre-Cast Sill



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.

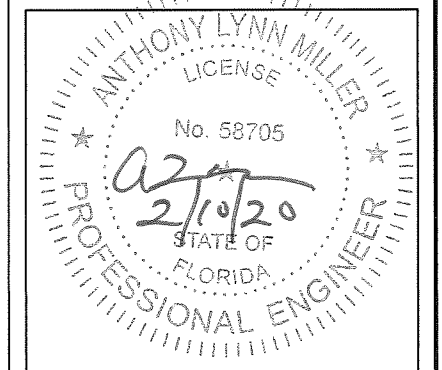
Values for Installation Type "A" apply to the following installation types, with maximum shim space 1/4":

- 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 Tek's or Self drilling screws.
 Structure must be designed by others to sustain the loads imposed by the window.

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 26-0213-05
 Expiration Date 5/5/25
 By: [Signature]
 Miami Dade Product Control

Revision:

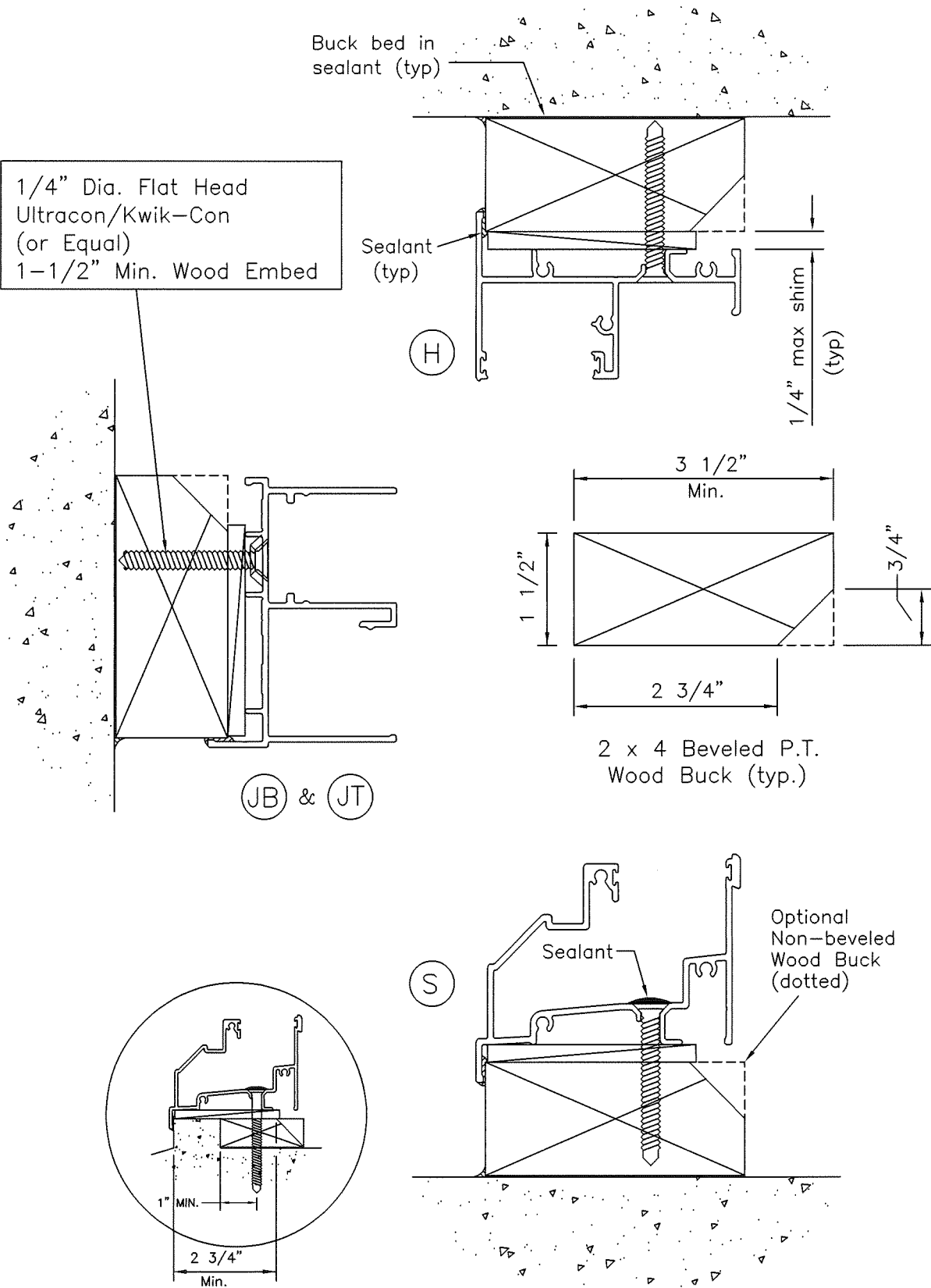
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	2/10/2020	Rev	
	Drawn By	ALAN KINNE	DWG No.	SH360LM-NOA
WINDOOR [®] INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	SERIES "360" ALUM SINGLE HUNG WDW (LM/SMI)	Sheet	9 OF 14	
		Series Desc.	ANCHORS	Series



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

Installation Type "B"

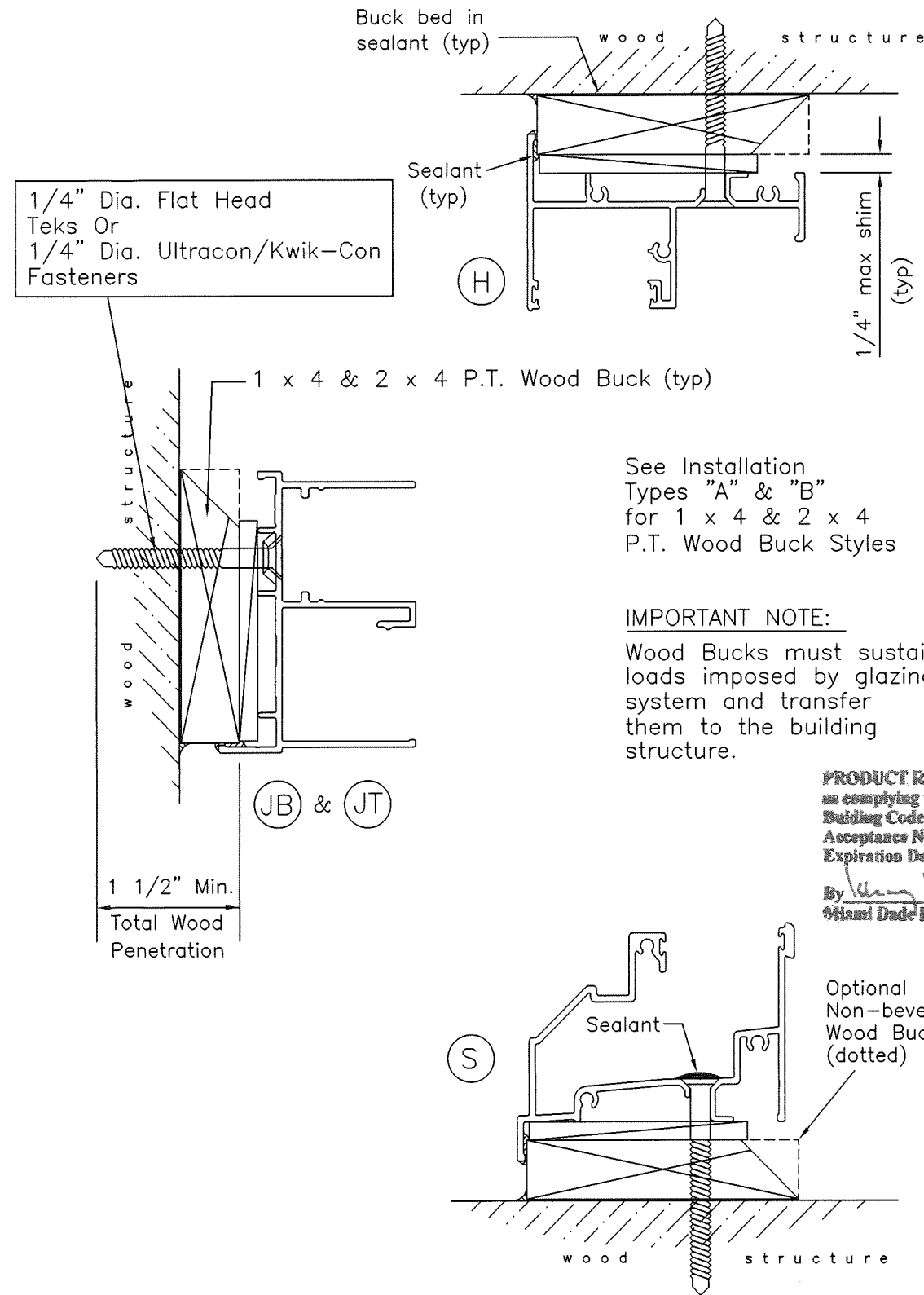
w/ 2 x 4 Beveled P.T. Wood Buck



Optional Pre-Cast Sill

Installation Type "C"

based on wood penetration only using 1 x 4 or 2 x 4 wood bucks



See Installation Types "A" & "B" for 1 x 4 & 2 x 4 P.T. Wood Buck Styles

IMPORTANT NOTE:

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

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 26-0213-05 Expiration Date 5/5/25 By *Anthony L. Miller* Miami Dade Product Control

Revision:	

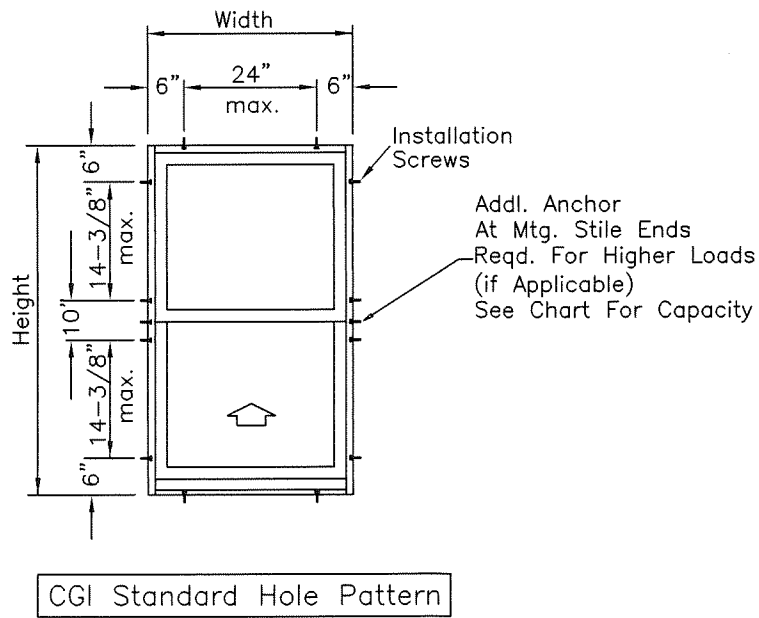
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	2/10/2020
WINDOOR® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	Drawn By ALAN KINNE	No. SH360LM-NOA	Rev.
			Desc. Title ANCHORS
SERIES "360" ALUM SINGLE HUNG WDW (LM/SMI)		Sheet 10 OF 14	Series SH360

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
A. L. Miller
 2/10/20
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E.# 58705

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

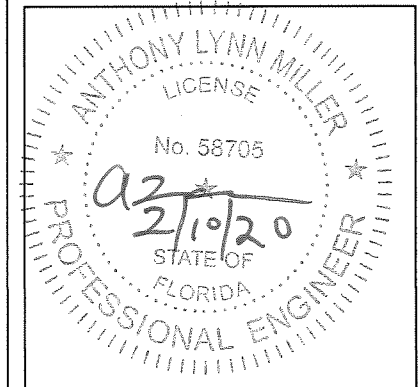
ANCHORS				
DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		NO. OF ANCHORS AT JAMB	STD. HOLE PATTERN W/O ADDL. ANCHOR	STD. HOLE PATTERN WITH ADDL. ANCHOR
WIDTH	HEIGHT		EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
19-1/8"	26"	4	210.0	210.0
26-1/2"			210.0	210.0
37"			210.0	210.0
53-1/8"			208.6	210.0
19-1/8"	38-3/8"	4	210.0	210.0
26-1/2"			210.0	210.0
37"			210.0	210.0
53-1/8"			152.7	210.0
19-1/8"	50-5/8"	4	210.0	210.0
26-1/2"			210.0	210.0
37"			179.6	210.0
53-1/8"			125.7	169.5
19-1/8"	63"	6	210.0	210.0
26-1/2"			210.0	210.0
37"			203.8	210.0
53-1/8"			110.7	166.1
19-1/8"	72"	8	210.0	210.0
26-1/2"			210.0	210.0
37"			210.0	210.0
53-1/8"			104.1	156.1
19-1/8"	76"	8	210.0	210.0
26-1/2"			210.0	210.0
37"			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.



Refer to sheets 9 & 10 of 14 for description of installation types A - B - C

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 20-0213-05
 Expiration Date 5/5/25
 By Shang L. Chen
 Miami Dade Product Control



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

Prepared by A. LYNN MILLER
 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941) 480-1600
 REGISTRATION #29296

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

SERIES "360" ALUM SINGLE HUNG WDW (LMI/SMI) 2/10/2020
 DESIGN LOAD TABLES
 SH360

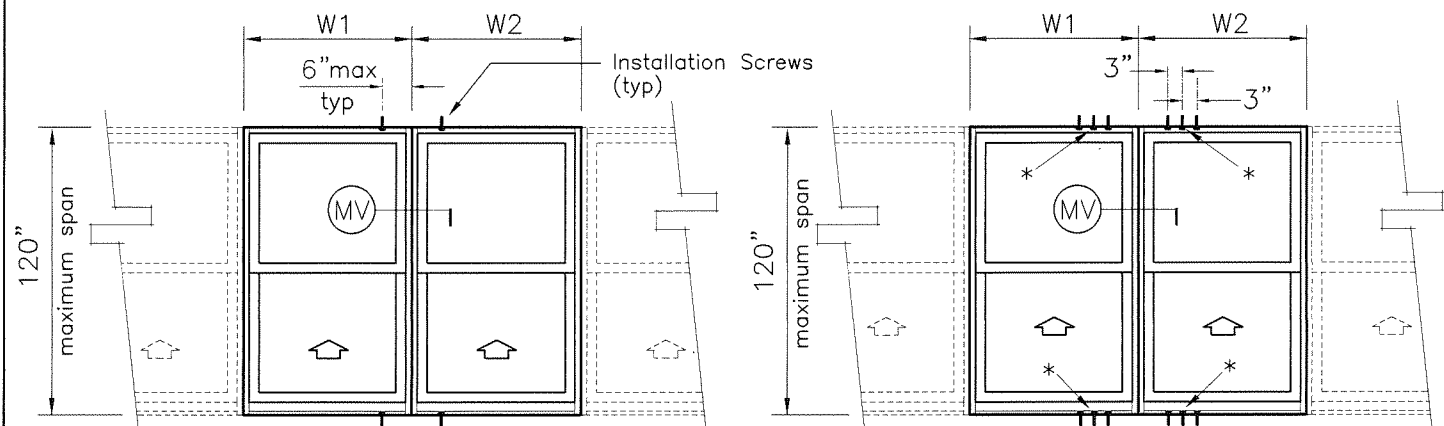
Drawn By ALAN KINNE
 No. SH360LM-NOA
 11 OF 14
 Sheet

Revision:

Vertical Mullion Performance

$$\text{Tributary Width} = \frac{W1 + W2}{2}$$

For Window Performance, refer to sheets 5 or 7

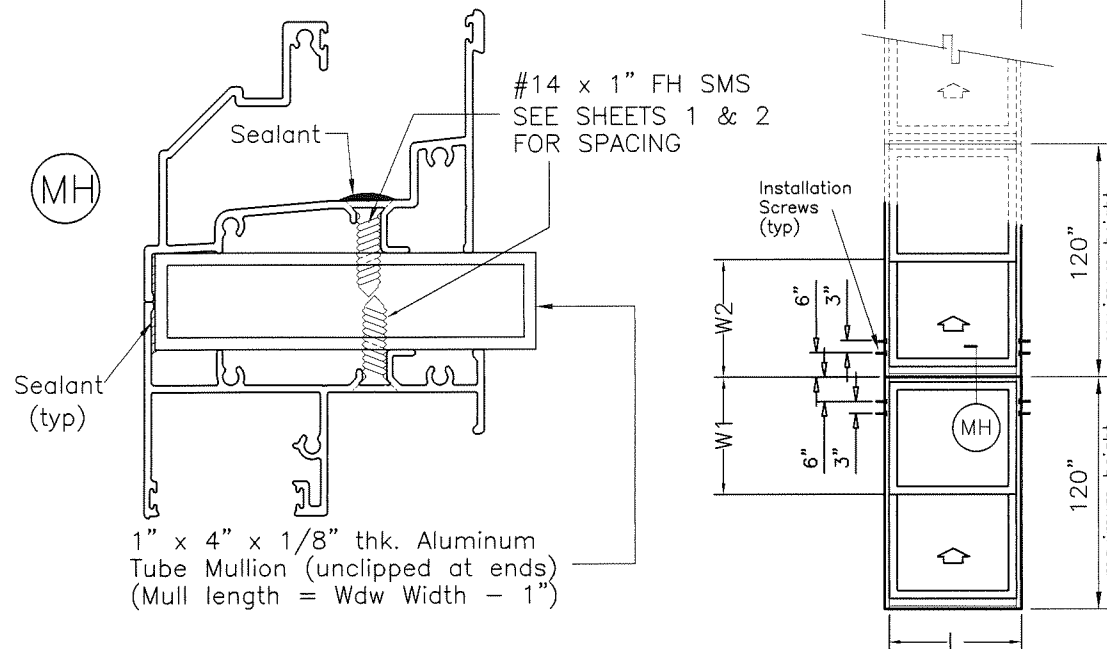


Multiple Opening
(2 or more windows)
w/ 1 screw on each side of mullion
Standard Installation

Multiple Opening
(2 or more windows)
w/ 2 or 3 screws on each side of mullion
High Load Installation
(* = additional holes to be drilled by installer)

Horizontal Mullion Performance

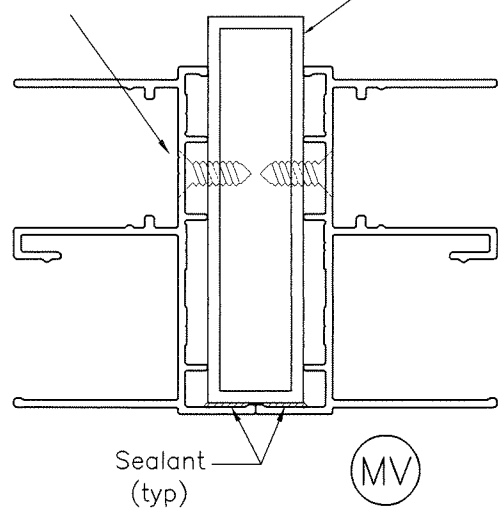
For Window Performance, refer to sheets 5 or 7



1" x 4" x 1/8" thk. Aluminum
Tube Mullion (unclipped at ends)
(Mull length = Wdw Width - 1")

1" x 4" x 1/8" thk. Aluminum
Tube Mullion (6063-T6)
(unclipped at ends)
(Mull length = Wdw Height - 1")

#14 x 3/4" FH SMS
SEE SHEETS 1 & 2
FOR SPACING

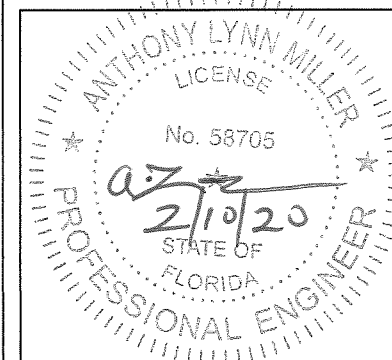


MULLION DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ONE ANCHOR EACH SIDE	TWO ANCHORS EACH SIDE	THREE ANCHORS EACH SIDE
WIDTH	HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
24"	48"	150.0	210.0	210.0
30"		130.9	210.0	210.0
32"		126.6	210.0	210.0
36"		120.0	210.0	210.0
42"		114.5	210.0	210.0
48"		112.5	210.0	210.0
54"	112.5	210.0	210.0	
24"	60"	112.5	210.0	210.0
30"		96.0	192.0	210.0
32"		92.0	184.1	210.0
36"		85.7	171.4	210.0
42"		79.1	158.2	210.0
48"		75.0	150.0	210.0
54"	72.7	145.5	210.0	
24"	72"	90.0	180.0	210.0
30"		75.8	151.6	210.0
32"		72.3	144.6	210.0
36"		66.7	133.3	197.9
42"		60.5	121.0	175.4
48"		56.3	112.5	159.8
54"	53.3	106.7	149.0	
24"	84"	75.0	150.0	202.2
30"		62.6	125.2	164.2
32"		59.6	119.1	154.8
36"		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	

MULLION DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ONE ANCHOR EACH SIDE	TWO ANCHORS EACH SIDE	THREE ANCHORS EACH SIDE
WIDTH	HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
24"	96"	64.3	128.6	142.1
30"		53.3	106.7	115.3
32"		50.6	101.2	108.7
36"		46.2	92.3	97.8
42"		41.1	82.3	85.6
48"		37.5	75.0	76.8
54"	34.8	69.6	70.3	
24"	108"	56.3	99.3	99.3
30"		46.5	80.3	80.3
32"		44.0	75.6	75.6
36"		40.0	67.8	67.8
42"		35.5	59.1	59.1
48"		32.1	52.8	52.8
24"	120"	50.0	72.1	72.1
30"		41.1	58.2	58.2
32"		38.9	54.7	54.7
36"		35.3	49.0	49.0
42"		31.2	42.6	42.6

MULLION DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ONE ANCHOR EACH SIDE	TWO ANCHORS EACH SIDE	THREE ANCHORS EACH SIDE
WIDTH	HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
53-1/8"	26"	210.0	210.0	210.0
19-1/8"		210.0	210.0	210.0
26-1/2"		194.6	210.0	210.0
37"	38-3/8"	176.2	210.0	210.0
53-1/8"		176.0	210.0	210.0
19-1/8"	50-5/8"	165.0	210.0	210.0
26-1/2"		130.9	210.0	210.0
37"		109.0	210.0	210.0
53-1/8"	63"	101.1	202.3	210.0
19-1/8"		126.8	210.0	210.0
26-1/2"		98.3	196.6	210.0
37"	78.7	157.4	210.0	
53-1/8"	72"	67.0	133.9	200.9
19-1/8"		108.5	210.0	210.0
26-1/2"		83.2	166.5	210.0
37"	76"	65.5	130.9	193.5
53-1/8"		53.7	107.4	150.3
19-1/8"		102.0	204.0	210.0
26-1/2"	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. 20-0213.05
Expiration Date 5/5/25
By: [Signature]
Miami Dade Product Control



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

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

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

SERIES "360" ALUM SINGLE HUNG WDW (LM/SMI) 2/10/2020

MULLION DESIGN LOAD TABLES
SH360

ALAN KINNE
SH360LM-NOA

12 OF 14

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS
EXT.(+) & INT.(-)

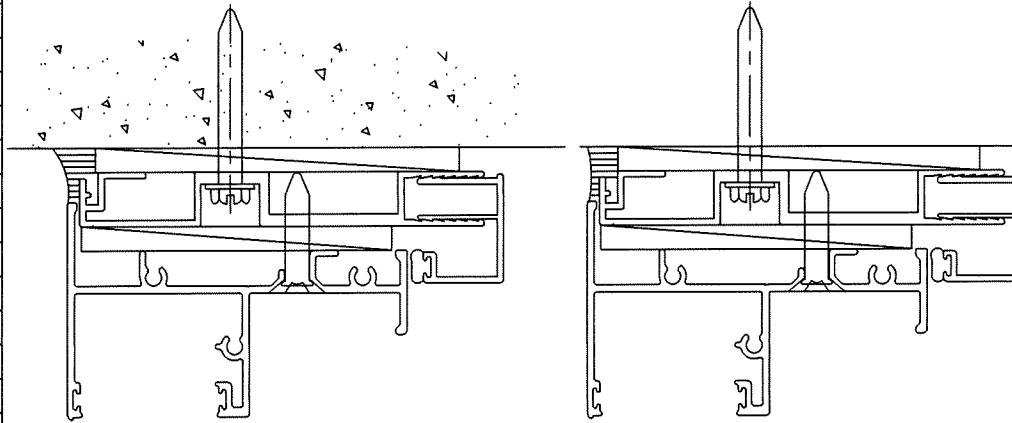
WINDOW DIMS.		ANCHOR SPACING INTO CONC.		ANCHOR SPACING INTO HOLLOW BLOCK		ANCHOR SPACING INTO WOOD	
WIDTH	HEIGHT	16" O.C.	8" O.C.	16" O.C.	8" O.C.	16" O.C.	8" O.C.
24"	48"	210.0	210.0	178.7	210.0	210.0	210.0
30"		210.0	210.0	155.9	210.0	210.0	210.0
32"		210.0	210.0	150.8	210.0	210.0	210.0
36"		210.0	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"	60"	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"		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"	72"	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"		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"	84"	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"		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"	96"	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"		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"	108"	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"		143.8	210.0	91.8	170.4	210.0	210.0
36"		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"	120"	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"		145.4	210.0	92.8	173.9	210.0	210.0
36"		131.8	210.0	84.1	157.6	210.0	210.0
42"		116.4	210.0	74.3	139.2	176.3	210.0

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS
EXT.(+) & INT.(-)

WINDOW DIMS.		ANCHOR SPACING INTO CONC.		ANCHOR SPACING INTO HOLLOW BLOCK		ANCHOR SPACING INTO WOOD	
WIDTH	HEIGHT	16" O.C.	8" O.C.	16" O.C.	8" O.C.	16" O.C.	8" O.C.
19-1/8"	26"	210.0	210.0	210.0	210.0	210.0	210.0
26-1/2"		210.0	210.0	210.0	210.0	210.0	210.0
37"		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"	38-3/8"	210.0	210.0	210.0	210.0	210.0	210.0
26-1/2"		210.0	210.0	173.9	210.0	210.0	210.0
37"		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"	50-5/8"	210.0	210.0	196.6	210.0	210.0	210.0
26-1/2"		210.0	210.0	155.9	210.0	210.0	210.0
37"		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"	63"	210.0	210.0	188.8	210.0	210.0	210.0
26-1/2"		210.0	210.0	146.4	210.0	210.0	210.0
37"		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"	72"	210.0	210.0	161.6	210.0	210.0	210.0
26-1/2"		194.2	210.0	123.9	210.0	210.0	210.0
37"		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"	76"	210.0	210.0	151.9	210.0	210.0	210.0
26-1/2"		181.9	210.0	116.0	208.9	210.0	210.0
37"		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

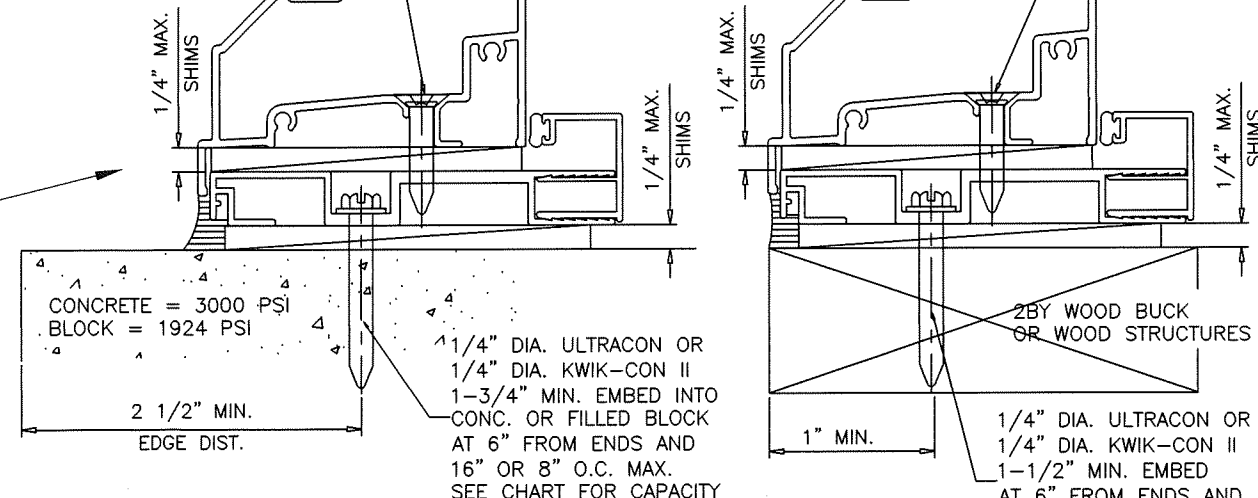
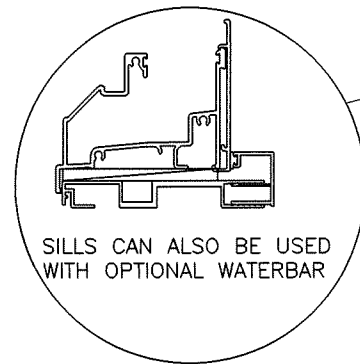
ALUMINUM BUCK FRAMING DETAILS

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



#14 SMS
AT 6" FROM ENDS
AND 24" O.C. MAX. AT
HEAD & SILL AND 14-3/8"
O.C. MAX AT JAMBS

#14 SMS
AT 6" FROM ENDS
AND 24" O.C. MAX. AT
HEAD & SILL AND 14-3/8"
O.C. MAX AT JAMBS



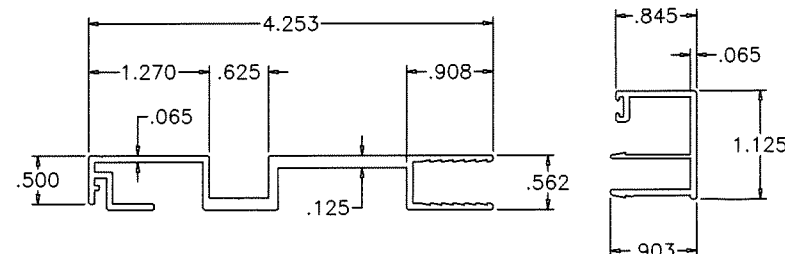
CONCRETE = 3000 PSI
BLOCK = 1924 PSI

1/4" DIA. ULTRACON OR
1/4" DIA. KWIK-CON II
1-3/4" MIN. EMBED INTO
CONC. OR FILLED BLOCK
AT 6" FROM ENDS AND
16" OR 8" O.C. MAX.
SEE CHART FOR CAPACITY

2BY WOOD BUCK
OR WOOD STRUCTURES

1/4" DIA. ULTRACON OR
1/4" DIA. KWIK-CON II
1-1/2" MIN. EMBED
AT 6" FROM ENDS AND
16" OR 8" O.C. MAX.
SEE CHART FOR CAPACITY

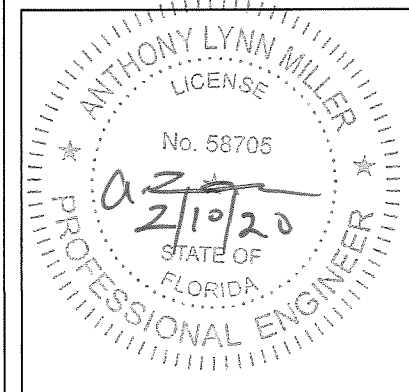
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM



ALUMINUM BUCK
6063-T6

OPTIONAL COVER
6063-T6

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 20-0213-05
Expiration Date 5/31/35
By *Anthony Lynn Miller*
Miami Dade Product Control



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

Prepared by A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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REGISTRATION #29296

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

SERIES "360" ALUM SINGLE HUNG WDW (LMI/SMI) 2/10/2020

ALUMINUM BUCK

SH360

13 OF 14

SH360LM-NOA

ALAN KINNE

**PERFORMANCE VALUES
OF ALUMINUM BUCK
INSTALLATION ANCHORS**
EXT.(+) & INT.(-)

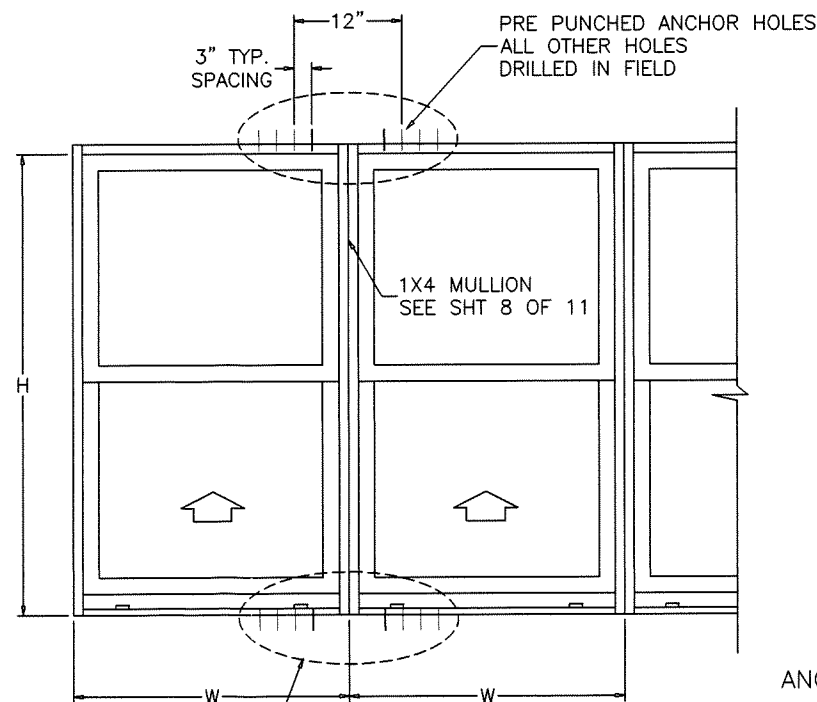
WINDOW DIMS.		ANCHORS INTO HOLLOW BLOCK				ANCHORS INTO CONC.				ANCHORS INTO WOOD			
WIDTH	HEIGHT	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8	CLUSTER OF 2	CLUSTER OF 4	CLUSTER OF 6	CLUSTER OF 8
24"	48"	89.3	178.7	210.0	210.0	140.0	210.0	210.0	210.0	120.0	210.0	210.0	210.0
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"		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
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"	60"	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
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"		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
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"	72"	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
36"		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
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
24"	84"	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
36"		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"	96"	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"		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"	108"	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"		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"		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
54"		18.6	37.1	55.7	74.3	29.1	58.2	87.3	116.4	24.9	49.9	74.8	99.7

**ANCHORS AT
ALUMINUM BUCK FRAMING
(AT MULLION ENDS)**

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

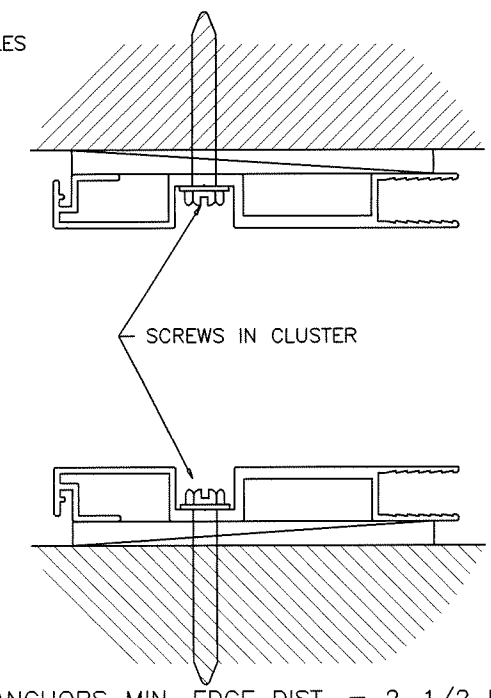
**PERFORMANCE VALUES
OF ALUMINUM BUCK
INSTALLATION ANCHORS**
EXT.(+) & INT.(-)

WINDOW DIMS.		ANCHORS INTO HOLLOW BLOCK				ANCHORS INTO CONC.				ANCHORS INTO WOOD			
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
19-1/8"	26"	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
26-1/2"		210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
37"		210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
53-1/8"		210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
19-1/8"	38-3/8"	140.1	210.0	210.0	210.0	210.0	210.0	210.0	210.0	188.2	210.0	210.0	210.0
26-1/2"		115.9	210.0	210.0	210.0	181.7	210.0	210.0	210.0	155.7	210.0	210.0	210.0
37"		105.0	209.9	210.0	210.0	164.5	210.0	210.0	210.0	141.0	210.0	210.0	210.0
53-1/8"	50-5/8"	104.8	209.6	210.0	210.0	164.3	210.0	210.0	210.0	140.8	210.0	210.0	210.0
19-1/8"		98.3	196.6	210.0	210.0	154.0	210.0	210.0	210.0	132.0	210.0	210.0	210.0
26-1/2"		77.9	155.9	210.0	210.0	122.1	210.0	210.0	210.0	104.7	209.4	210.0	210.0
37"		64.9	129.9	194.8	210.0	101.8	203.5	210.0	210.0	87.2	174.5	210.0	210.0
53-1/8"	63"	60.2	120.5	180.7	210.0	94.4	188.8	210.0	210.0	80.9	161.8	210.0	210.0
19-1/8"		75.5	151.0	210.0	210.0	118.4	210.0	210.0	210.0	101.4	202.9	210.0	210.0
26-1/2"		58.5	117.1	175.6	210.0	91.7	183.5	210.0	210.0	78.6	157.3	210.0	210.0
37"	72"	46.9	93.8	140.6	187.5	73.5	146.9	210.0	210.0	63.0	125.9	188.9	210.0
53-1/8"		39.9	79.7	119.6	159.5	62.5	125.0	187.5	210.0	53.6	107.1	160.7	210.0
19-1/8"		64.6	129.3	193.9	210.0	101.3	202.6	210.0	210.0	86.8	173.7	210.0	210.0
26-1/2"	76"	49.6	99.2	148.7	198.3	77.7	155.4	210.0	210.0	66.6	133.2	199.8	210.0
37"		39.0	78.0	117.0	156.0	61.1	122.2	183.3	210.0	52.4	104.8	157.1	209.5
53-1/8"	76"	32.0	64.0	95.9	127.9	50.1	100.2	150.3	200.4	43.0	85.9	128.9	171.8
19-1/8"		60.7	121.5	182.2	210.0	95.2	190.4	210.0	210.0	81.6	163.2	210.0	210.0
26-1/2"		46.4	92.8	139.2	185.7	72.7	145.5	210.0	210.0	62.3	124.7	187.0	210.0
37"	76"	36.3	72.6	108.8	145.1	56.9	113.7	170.6	210.0	48.7	97.5	146.2	194.9
53-1/8"		29.4	58.8	88.2	117.6	46.1	92.1	138.2	184.2	39.5	79.0	118.4	157.9



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

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



ANCHORS MIN. EDGE DIST. = 2-1/2 IN.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 20-02.13.05
Expiration Date 04/05/2025
By *Anthony Lynn Miller*
Miami Dade Product Control

Revision:

Prepared by A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

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

SERIES "360" ALUM SINGLE HUNG WDW (LMI/SMI) 2/10/2020
ALUMINUM BUCK
SH360LM-NOA

14 OF 14
Sheet

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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Miami, Florida 33175-2474
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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.



NOA No.: 22-1221.01
Expiration Date: 09/13/27
Approval Date: 04/06/23
Page 1 of 12

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: SBS, APP

PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polystick IR-Xe <i>Manufacturing</i> <i>Location #1, #2, & #3</i>	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 <i>Manufacturing</i> <i>Location #1, #2, & #4</i>	65' x 3' 60 mils thick	ASTM D1970	A polypropylene film surface self-adhering, SBS polymer modified, fiberglass reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield.
Polystick TU Max <i>Manufacturing</i> <i>Location #1, #2, & #3</i>	65'8" x 3'3-3/8" 60 mils thick	TAS 103	A rubberized asphalt self-adhering, polyester reinforced waterproofing membrane. Designed as a a roof tile underlayment.
Polystick TU P <i>Manufacturing</i> <i>Location #1, #2, & #3</i>	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) <i>Manufacturing</i> <i>Location #1, #2, #3, & #5</i>	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 <i>Manufacturing</i> <i>Location #1, #2, #3, & #5</i>	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 <i>Manufacturing</i> <i>Location #1, #2, #3, & #5</i>	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 <i>Manufacturing</i> <i>Location #1, #2, #3, and #4</i>	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.



PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polystick MTS <i>Manufacturing Location #5</i>	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 <i>Manufacturing Location #1, #2, #3, & #4</i>	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.
Polystick MTS Plus <i>Manufacturing Location #5</i>	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 <i>Manufacturing Location #1 & #2</i>	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 <i>Manufacturing Location #2 & #3</i>	32' 10" x 3' 3-3/8"	TAS 103 and ASTM D6222	Self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
ELASTOFLEX SA V <i>Manufacturing Location #3 & #4</i>	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



EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI	DAPF-002-02-01	ASTM D1623	03/08/18
Trinity ERD	P40390.10.12	ASTM D 1970	10/03/12
	P37590.07.13-1	ASTM D6164	07/02/13
	P45270.05.14	TAS 103, TAS 110 & ASTM D1623	05/12/14
	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
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



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.



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.



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.



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™ 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.



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 preceding maximum time limitations.

Exposure Limitations (Days)					
	Winter Haven, FL	Hazleton, 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

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



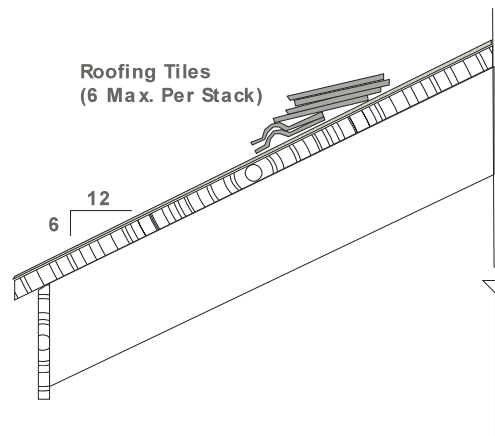
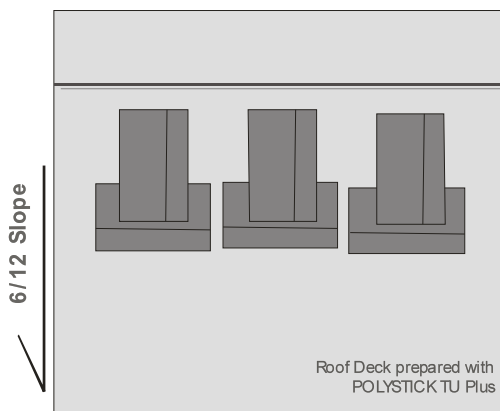
8. When loading roof tiles on roof tile underlayment for (direct-to-deck) tile assemblies, the maximum roof slope shall be as follows: (See Table Below)

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



10. 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.



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 back-nailed 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 back-nailed. (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 1/4"/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