



# ADDENDUM NO. 1

Issue Date: November 9, 2023

Project Name: Jones’ Pier Conservation Area Design & Fabrication of Interpretive Center Exhibits

RFP Number: 2024014

RFP Opening Date: November 22, 2023

This addendum is being released to answer questions received to date. The information and documents contained in this addendum are hereby incorporated in the request for proposals. **This addendum must be acknowledged where indicated on the Firm Information form, or the proposal may be declared non-responsive.**

### Questions and Answers

|    |   |
|----|---|
| 1. | Can you please provide the rest of the drawings? MEP, Structural, site, landscape, etc...   |
|    | <b>See attachments.</b>   |
| 2. | What is the established budget for this work? If there isn’t one, can you provide guidance for preferred cost range?  |
|    | <b>The County has an \$84,000 grant for this project, with County matching funds (total grant project budget is \$168,000). Depending on the exhibit array that is selected by the County, the budget for the project may be amended to reflect a revised cost.</b>   |
| 3. | Can you please clarify what level of detail will be desired to “develop and submit schematic/sample of a proposed exhibit”? are you seeking graphic illustrations, site plans, or other?  |
|    | <b>The level of detail is determined by the vendor, with the goal of presenting concepts to the County for evaluation by the review committee. Graphic illustrations are a suitable level for review. Based on the dimensions within the display area in the Interpretive Center, it would be helpful to provide detail showing the approximate dimensions of the exhibit within the space, as well as present a concept for each area.</b> |
| 4. | Can you please share the general timeline for the renovations?  |
|    | <b>The project is part pf a grant that the County has received. Exhibits must be complete, and final billing must be submitted by 9/30/2024.</b>  |
| 5. | Do you have any renderings available from the architect?  |
|    | <b>See attachments.</b>   |

Addendum 1

|    |  |
|----|--|
| 6. | Will the chosen firm be able to collaborate with the project's architect? Depending on what concepts are approved, partnering may make sense in order to ensure proper electric or what finish plans make sense for the exhibit displays.  |
|    | <b>Yes, the awarded firm will be able to collaborate with our architect.</b>   |
|    |  |
| 7. | Are there any expectations regarding the integration of technology, such as interactive screens, multimedia presentations or accompanying apps for the exhibits?   |
|    | <b>The site is located on the barrier island and will have internet capability via satellite. The County does not have any pre-determined expectations on technology. The County encourages the development of creative exhibits that will generate a memorable experience for visitors, while at the same time being cost effective and low maintenance to operate.</b> |
|    |  |
| 8. | Do you have any preferences for working with local vendors, or is the RFP equally open to vendors from out of state?   |
|    | <b>The RFP is open for all qualified vendors, regardless of location. It would be up to the vendor to determine if there is a benefit to use local subcontractors for cost effective fabrication and/or delivery/installation.</b>   |
|    |  |

**Attachments**

RFP Package Drawings

Jones' Pier Informational Brochure

Aerial Views

Location Map

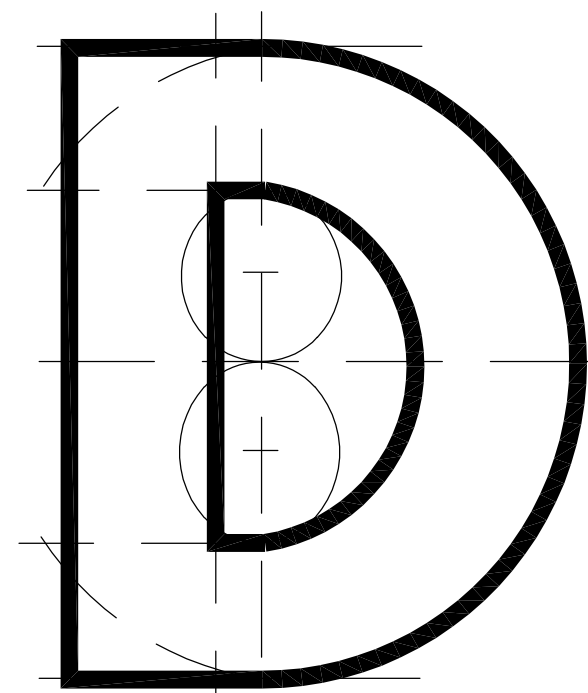
JONES' PIER CONSERVATION AREA  
 HISTORIC RESIDENCE REHABILITATION TO  
 HISTORIC MUSEUM

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



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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

| I/O                                 | Dwg. No | Drawing Name     |
|-------------------------------------|---------|------------------|
| <input checked="" type="checkbox"/> | E0.1    | ELECTRICAL NOTES |
| <input checked="" type="checkbox"/> | E2.1    | LIGHTING PLAN    |
| <input checked="" type="checkbox"/> | E3.1    | POWER PLAN       |

PLUMBING DRAWINGS

| I/O                                 | Dwg. No | Drawing Name   |
|-------------------------------------|---------|----------------|
| <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

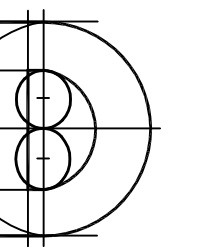
7770 Jungle Trail  
Vero Beach FL 32963  
for  
Indian River County Parks  
Division

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:



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

A Spiezie Group Inc. Company



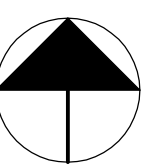
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Consultant:

Drawing Title:

HISTORIC MUSEUM  
SITE PLAN

Reference North

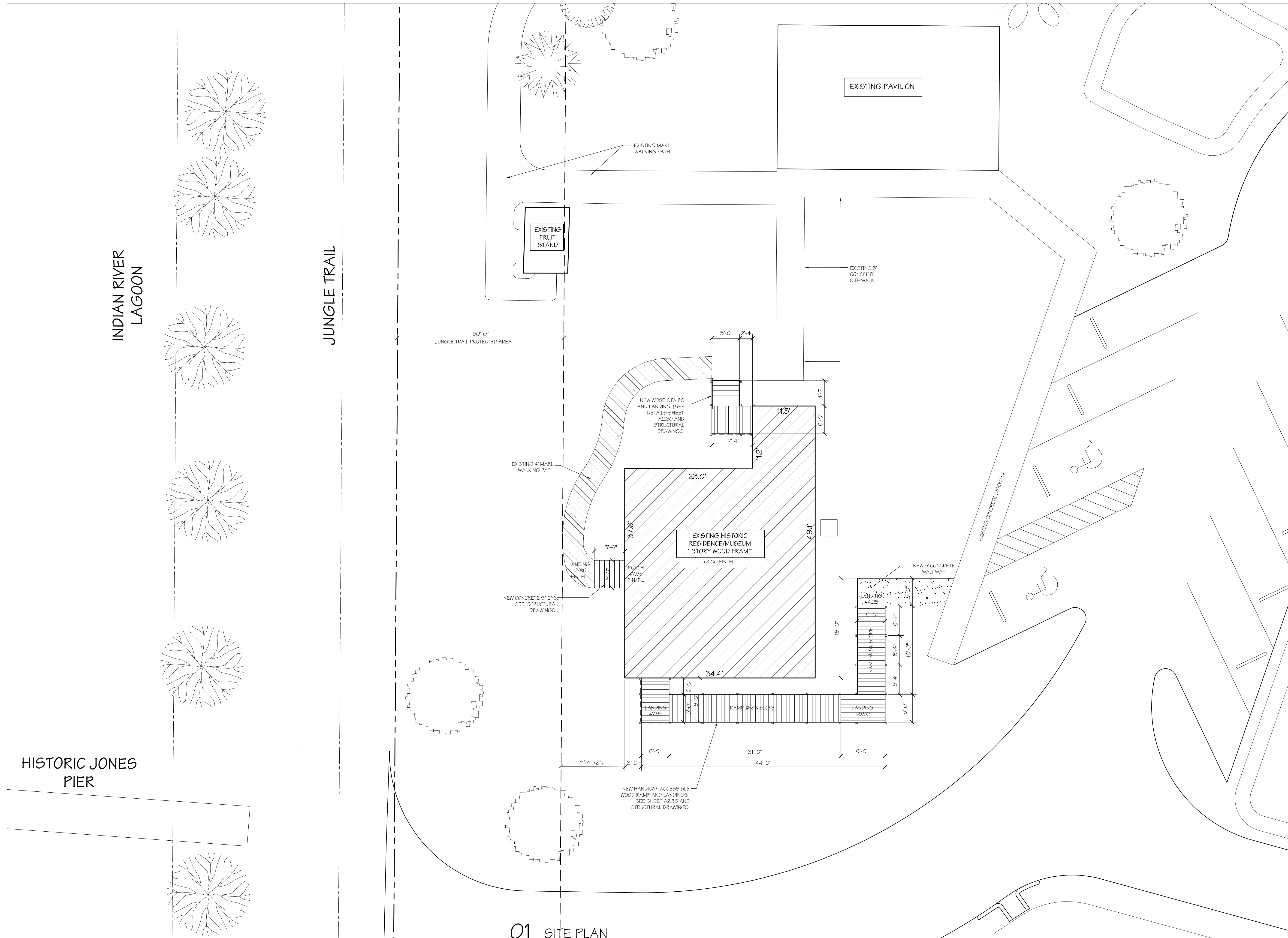


Dwn: JLH  
Chd: XREF File:  
TD  
Project No.: 2018-23.03  
Sheet No.: spiezie: 21Z015

Cert. No.: 12,456

Date Signed:

AS 2.10



01 SITE PLAN

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

HISTORIC JONES  
PIER

INDIAN RIVER  
LAGOON

JUNGLE TRAIL

EXISTING PAVILION

EXISTING FRUIT  
STAND

EXISTING MARL  
WALKING PATH

EXISTING 5'  
CONCRETE  
SIDEWALK

EXISTING HISTORIC  
RESIDENCE/MUSEUM  
1 STORY WOOD FRAME  
+8.00 FIN. FL.

NEW WOOD STAIRS  
AND LANDING (SEE  
DETAILS SHEET  
A2.30 AND  
STRUCTURAL  
DRAWINGS).

EXISTING 4' MARL  
WALKING PATH

NEW CONCRETE STEPS  
SEE STRUCTURAL  
DRAWINGS.

NEW HANDICAP ACCESSIBLE  
WOOD RAMP AND LANDINGS  
SEE SHEET A2.30 AND  
STRUCTURAL DRAWINGS.

NEW 5' CONCRETE  
WALKWAY

EXISTING CONCRETE SIDEWALK

30'-0"  
JUNGLE TRAIL PROTECTED AREA

5'-0" 2'-4"  
11.3'  
7'-4"  
11.2'  
4'-7"  
5'-0"

23.0'  
37.8'  
49.1'

34.4'  
18'-0"  
5'-0"  
5'-4"  
5'-4"  
16'-0"  
5'-4"  
5'-0"

11'-4 1/2"  
3'-0"  
5'-0"  
31'-0"  
44'-0"  
5'-0"

LANDING  
+5.30  
FIN. FL.

POORCH  
+7.99'  
FIN. FL.

LANDING  
+7.99'

LANDING  
+5.30

LANDING  
+5.30

LANDING  
+5.30

LANDING  
+5.30

LANDING  
+5.30

LANDING  
+5.30

LANDING  
+5.30



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

**SITE WORK:**

- SOIL**
  - ALL WORK SHALL CONFORM TO THE FINAL GEOTECHNICAL REPORT AND THE FINAL GRADING PLAN ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.
  - IF THE SOILS REPORT IS NOT AVAILABLE, SOIL BEARING CAPACITY IS ASSUMED TO BE A MINIMUM OF 1,800 PSF.
  - CONTRACTOR SHALL VERIFY COMPACTION REQUIREMENTS PRIOR TO THE EXECUTION OF WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL PRIOR TO COMMENCEMENT OF WORK.
  - FOOTINGS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED FILL, FREE OR ORGANIC MATTER AND COMPACTED TO 95% OF THE MODIFIED PROCTOR, UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORT.
  - THE SOILS WITHIN 15 FEET OF THE PROPOSED BUILDING PAD SHALL BE FREE OF ANY WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, OR OTHER DELETERIOUS MATERIAL.
  - WATER MANAGEMENT AT THE PERIMETER SHALL BE MAINTAINED AND SHALL INCLUDE:
    - CONDENSATE DRAINS AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST 12" FROM BUILDING.
    - IRRIGATION / SPRINKLER SYSTEMS, INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 16" OF BUILDING.
    - LANDSCAPE SHALL BE INSTALLED AT LEAST 24" AWAY FROM BUILDING PERIMETER.
  - ANY FILL BROUGHT TO THE SITE SHALL MEET PROJECT REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.
- SOIL TREATMENT**
  - TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES BAITING SYSTEMS, AND/OR PESTICIDES APPLIED TO WOOD OR OTHER APPROVED METHODS.
  - BOXED AREAS IN CONCRETE FLOORS FOR INSTALLATION OF TRAPS, ETC. SHALL BE MADE WITH PERMANENT METAL OR APPROVED PLASTIC FORMS. FORMS SHALL BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER INITIAL TREATMENT.
  - PROVIDE VAPOR BARRIER IMMEDIATELY FOLLOWING SOIL TREATMENT.
  - A LICENSED PEST COMPANY SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING DEPARTMENT AT COMPLETION OF TREATMENT.
  - AFTER COMPLETION OF WORK, ALL LOOSE WOOD, CONSTRUCTION DEBRIS, AND ORGANIC MATERIAL SHALL BE REMOVED FROM WITHIN 16" OF BUILDING PERIMETER.

**CONCRETE:**

- MATERIALS**
  - ALL WORK SHALL BE MIXED, PLACED, AND CURED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE ACI 318.
  - CONCRETE SHALL HAVE THE FOLLOWING SPECIFICATIONS UNLESS NOTED OTHERWISE:

| AREA   | STRENGTH (PSI)      | SLUMP | AGGREGATE SIZE |
|--------|---------------------|-------|----------------|
| SLAB   | 2,800 PSI (28 DAYS) | 4"-6" | 3/4" - 2"      |
| FOOTER | 3,000 PSI (28 DAYS) | 4"-6" | 3/4" - 2"      |
  - GENERAL CONTRACTOR SHALL SUBMIT MIX DESIGN TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO PLACING ANY CONCRETE.
  - MATERIAL FOR CONCRETE SHALL CONFORM TO THE FOLLOWING:
    - PORTLAND CEMENT - ASTM C150
    - AGGREGATES: COURSE AGGREGATE: ASTM C33, LIGHTWEIGHT: ASTM C330, FINE: ASTM C33
  - WATER SHALL BE FREE OF CONTAMINANTS, CLEAN AND POTABLE.
  - WATER SHALL NOT BE ADDED TO THE MIX ON SITE UNLESS SPECIFICALLY APPROVED IN THE MIX DESIGN SPECIFICATIONS PER THE SPECIFIED VOLUME.
  - ADMIXTURES SHALL CONFORM TO THE MIX DESIGN.
- TESTING AND SAMPLING**
  - ALL TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH ASTM REQUIREMENTS. TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO FURTHER CONSTRUCTION.
  - THREE CYLINDERS SHALL BE TESTED EACH DAY'S POURING PER EVERY 50 YARDS. TWO SLUMP TESTS (PER ASTM C143) SHALL BE PERFORMED AND RECORDED FOR EACH BATCH, ONE AT THE BEGINNING AND ONE AT THE END.
    - ONE CYLINDER SHALL BE BROKEN AT 7 DAYS AND ONE AT 28 DAYS. RESERVE CYLINDER WILL BE NEEDED IF SECOND TEST FAILS SPECIFICATIONS.
    - SUBMIT TEST RESULTS TO ENGINEER OF RECORD WITHIN FIVE DAYS OF RESULTS.
  - GROUT**
    - GROUT SHALL BE IN ACCORDANCE WITH ASTM C476 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
    - CONTRACTOR SHALL ADD PLASTICIZER TO GROUT MIXTURE
    - FILL CMU CELLS SOLID WITH GROUT AT ALL UNITS RECEIVING REINFORCEMENT AND AS NOTED ON DRAWINGS AND SECTIONS.
    - FILL SOLID FIRST COURSE BELOW CHANGE IN WALL THICKNESS AND AT TOP OF ALL CMU WALLS.
    - GROUT SHALL BE PLACED FLUSH TO THE TOP OF ALL LINTELS AND BOND BEAMS. CONSOLIDATE AND RE-CONSOLIDATE GROUT WITH VIBRATOR FOR FULL HEIGHT OF FILLED CELLS, BOND BEAMS, AND LINTELS.
  - REINFORCING**
    - REINFORCING SHALL HAVE GRADE IDENTIFICATION MARKS AND SHALL CONFORM TO ASTM A615, GRADE 60.
    - REINFORCING SHALL BE FREE OF RUST, SCALE OR OTHER BOND REDUCING COATINGS.
    - REINFORCING SHALL BE PLACED IN CONCRETE TO PROVIDE MINIMUM COVERAGE IN ACCORDANCE WITH ACI 318 OR AS INDICATED IN THE DRAWINGS.
      - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3"
      - CONCRETE EXPOSED TO EARTH OR WEATHER - 1.5"
      - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND - 3/4"
    - MINIMUM LAP SPICE (UNLESS NOTED OTHERWISE)

| BAR SIZE | MASONRY | CONCRETE      |
|----------|---------|---------------|
| #4       | 24"     | 2000 PSI      |
| #5       | 30"     | 3000 PSI      |
| #6       | 36"     | 4000-5000 PSI |
    - ACCURATELY PLACE AND SUPPORT REINFORCING WITH CHAIRS, BAR SUPPORTS, SPACERS, OR HANGERS AS RECOMMENDED BY ACI DETAILING MANUAL.
    - PLACE (1) ONE ACI STANDARD LAP SPICE BAR, OF THE SAME SIZE AS FOUNDATION REINFORCING, LOCATED AT THE OUTSIDE BAR OF FOUNDATION CORNERS.
  - PLACEMENT AND FINISHING**
    - ALL CONCRETE PLACED UNDER ROOF PROTECTION SHALL BE PLACED OVER 6 MIL POLYETHYLENE VAPOR BARRIER, LAPPED 8 INCHES MINIMUM WITH ALL SEAMS TAPED UNLESS NOTED OTHERWISE.
    - PLACE ALL EMBEDDED ITEMS (ANCHOR BOLTS, DOWELS, ETC.) IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE OR DURING CONCRETE OPERATIONS.
    - PROTECT ALL CONCRETE FROM DAMAGE AFTER PLACEMENT.
    - CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCHING UNLESS MIX DESIGN SPECIFIES OTHERWISE.
    - CONCRETE SHALL BE PLACED WITHIN THE SLUMP LIMITS SPECIFIED IN THE DESIGN MIX.
    - WATER ADDED AT THE SITE SHALL BE KEPT TO A MINIMUM AND WITHIN THE SPECIFIED SLUMP. RUN MIXER FOR THIRTY REVOLUTIONS AT 8-12 RPM FOLLOWING THE ADDITION OF WATER AT THE SITE.
    - CONCRETE SHALL NOT BE PLACED DURING RAIN. FOLLOWING PLACEMENT OF CONCRETE, PROTECT FROM RAIN PRIOR TO INITIAL SET.
    - PLACEMENT SHALL BE CONTINUOUS UNTIL ALL WORK IS COMPLETED.
    - DO NOT USE CONTAMINATED, DETERIORATED, OR RETEMPERED CONCRETE.
    - THOROUGHLY WORK CONCRETE AROUND REINFORCING BARS.
    - PLACE CONCRETE TO GRADES AND ELEVATIONS REQUIRED FOR PROJECT.
    - REMOVE ALL GRADE STAKES AFTER PLACEMENT OF CONCRETE.
    - AT SLABS GREATER THAN 20 FEET IN ANY DIRECTION
      - PROVIDE SAW CUT CONTROL JOINTS IN CONCRETE AFTER INITIAL SET AND PRIOR TO HARDENING
      - SAWCUT JOINTS SHALL BE 1/3 THE DEPTH OF THE SLAB.
      - ANY SLAB EXCEEDING 20 FEET SHALL BE DIVIDED AT ALL CORNERS AND SHALL EXTEND IN EACH 90 DEGREE DIRECTION.
    - PROVIDE SURFACE FINISH REQUIRED FOR INTENDED FINAL APPLICATION.
    - SILL PLATE ANCHORS SHALL BE AS SPECIFIED IN SPECIFICATIONS.
    - CONSOLIDATE CONCRETE THOROUGHLY DURING CONCRETE OPERATIONS.
    - CURE CONCRETE FOR THREE DAYS TO MINIMIZE SHRINKAGE CRACKS.

| BAR SIZE | MASONRY | CONCRETE      |
|----------|---------|---------------|
| #4       | 24"     | 2000 PSI      |
| #5       | 30"     | 3000 PSI      |
| #6       | 36"     | 4000-5000 PSI |

**MASONRY:**

- MATERIALS**
  - ALL HOLLOW LOAD BEARING CONCRETE BLOCK SHALL CONFORM TO ASTM C90, GRADE N, TYPE II.
  - COMPRESSIVE STRENGTH OF ALL CONCRETE MASONRY UNITS (CMU) SHALL BE 2000 PSI MINIMUM BASED ON THE NET CROSS SECTIONAL AREA.
  - MORTAR SHALL BE TYPE S AND SHALL CONFORM TO ASTM C270.
  - GROUTING SHALL BE AS SPECIFIED IN NOTES.
- EXECUTION**
  - ALL CONCRETE MASONRY UNITS SHALL BE LAID IN FULL SETTING BED AND IN RUNNING BOND UNLESS NOTED ON DRAWINGS.
  - ALL EXTERIOR MASONRY WALLS SHALL HAVE 9 GAUGE "LADDER TYPE" HORIZONTAL REINFORCEMENT LOCATED EVERY 16" ON CENTER. VERTICAL CORNERS SHALL USE PRE-FAB "L" AND "T" SECTIONS.
  - OVER ALL MASONRY OPENINGS AND WALLS, PROVIDE PRE-CAST LINTELS, CAST-IN-PLACE CONCRETE TIE-BEAMS, BOND BEAMS, OR OTHER HEADERS AS INDICATED ON DRAWINGS.
    - LINTELS AND BOND BEAMS SHALL BE REINFORCED AND FULLY GROUTED SOLID UNLESS OTHERWISE INDICATED ON DRAWINGS.
    - TIE BEAMS SHALL BE REINFORCED AND POURED SOLID WITH CONCRETE
    - VERTICAL REINFORCING AT OPENINGS SHALL BE AS INDICATED ON DRAWINGS.
  - VERTICAL FILLED CELLS SHALL MEET THE FOLLOWING:
    - HAVE A MINIMUM OF ONE #5 REBAR, LAPPED FOR FULL LENGTH OF FILLED CELL
    - VERTICAL REINFORCING SHALL BE LAPPED TO FOUNDATION DOWEL EMBEDDED IN FOOTING.
    - TERMINATE VERTICAL REINFORCING AT THE TOP WITH A STANDARD ACI HOOK, LAPPED TO HORIZONTAL REINFORCING IN BOND BEAM, TIE-BEAM, OR LINTEL.
    - REFER TO CONCRETE NOTES FOR GROUT AND REINFORCEMENT REQUIREMENTS.
  - PROVIDE TEMPORARY BRACING FOR ALL CMU WALLS AND STEM WALLS DURING CONSTRUCTION.
  - PROVIDE MASONRY CONTROL JOINTS AS REQUIRED BY ACI 530.
  - IF DOWELS ARE MISPLACED OR MISSING, THE FOLLOWING REMEDIAL ACTION SHALL BE TAKEN AS APPROPRIATE:
    - IF THE WALL HAS NOT BEEN BUILT, DRILL A 1/2" DIAMETER HOLE 6" DEEP AT THE CORRECT LOCATION, INSTALL A 36" LONG #5 REBAR WITH SIMPSON TIE "SET EPOXY". FOLLOW THE MANUFACTURERS REQUIREMENT REQUIRING CLEANING THE HOLE AND MIXING THE EPOXY.
    - IF THE WALL HAS BEEN BUILT: PRIOR TO LINTEL POUR OPEN THE WALL AT THE CORRECT LOCATION, APPROXIMATELY 16" HIGH AND 14" WIDE AT THE FLOOR, DRILL AND EPOXY THE REBAR AS DESCRIBED ABOVE, LAP VERTICAL STEEL TO THE TIE OR BOND BEAM. FORM WALL AND POUR SOLID WITH GROUT, CONSOLIDATING AS NECESSARY.
  - CURE MASONRY SURFACES FOR 3 DAYS.

**WOOD FRAMING COMPONENTS:**

**LUMBER**

- MATERIALS**
  - ALL WOOD AND WOOD CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS AND CODES INDICATED IN THE DESIGN CRITERIA:
  - LUMBER SHALL BE IN ACCORDANCE WITH THE NATIONAL GRADING RULES AND SHALL BEAR GRADE STAMP OF SPIB, OR OTHER ASSOCIATION RECOGNIZED BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
  - LUMBER 2" OR LESS IN NOMINAL THICKNESS SHALL NOT EXCEED 19% IN MOISTURE CONTENT AT THE TIME OF INSTALLATION AND SHALL BE STAMPED "S-DRY", "K-D", OR "MC15". ALL LUMBER SHALL BE S4S.
  - ALL FRAMING MEMBERS SHALL BE SOUTHERN PINE #2 GRADE OR BETTER.
- EXECUTION**
  - WOOD FASTENING SHALL BE SPECIFIED IN THE DRAWINGS.
  - FASTENING NOT SPECIFICALLY IDENTIFIED ON DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE.
  - INTERIOR BEARING AND EXTERIOR WOOD FRAMED WALLS SHALL BE NOMINAL 4 INCHES WIDE SPACED AT 16" ON CENTER MAXIMUM, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
  - ALL LUMBER SHALL BE PRESSURE TREATED.
  - SQUASH BLOCKS SHALL BE INSTALLED BELOW ALL COLUMNS AND BUILT UP MEMBERS (INCLUDING JACKS AND KINGS AT OPENINGS) BETWEEN BOTTOM OF FLOOR SHEATHING AND TOP OF WALL BELOW. SQUASH BLOCKS SHALL BE OF THE SAME GRADE AND SIZE OF THE MEMBER ABOVE.
  - PROVIDE APPROVED SEPARATING MATERIAL AT TOP OF PIERS UNDER FRAMING COMPONENTS.

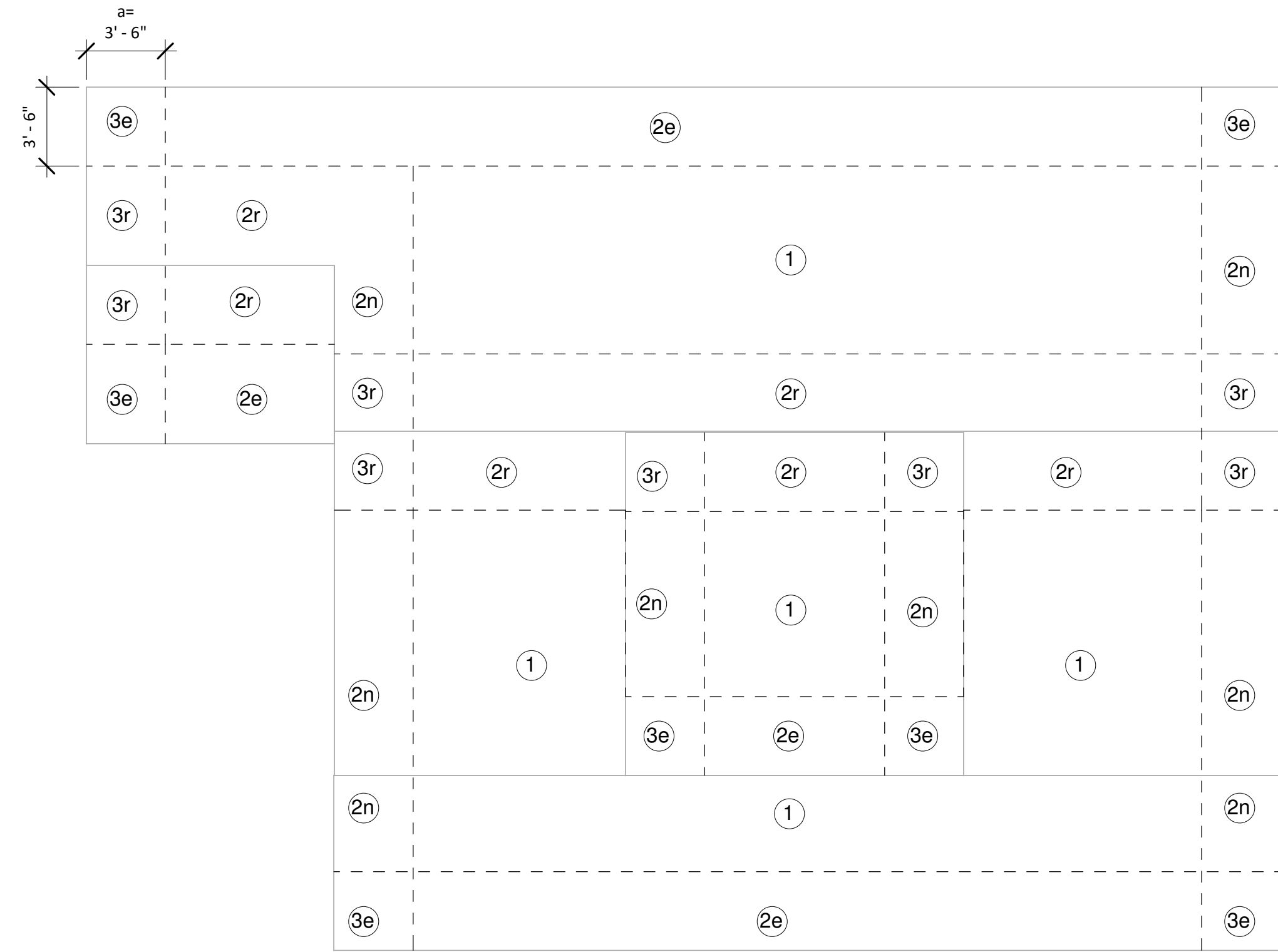
**FASTENERS:**

- MATERIALS**
  - WOOD CONNECTORS AND HOLD-DOWNS SHALL BE AS SPECIFIED IN THE DRAWINGS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
  - FASTENERS AND CONNECTORS USED ON UN-TREATED WOOD EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
  - FASTENERS AND CONNECTORS (INCLUDING TRUSS PLATES, NAILS, BOLTS, ANCHORS, ETC.) USED IN CONTACT WITH TREATED WOOD SHALL BE COMPATIBLE WITH THE TREATMENT METHOD AND AS FOLLOWS:
    - WOOD TREATED WITH DOT SODIUM BORATE - MINIMUM G90 ZINC COATING
    - WOOD TREATED WITH ACQ-C OR ACQ-D OR OTHER BORATE (NON-DOT) - MINIMUM G185 ZINC COATING
    - FOR ALL OTHER TREATMENT - COMPLY WITH THE RECOMMENDATIONS OF THE PRESERVATIVE WOOD SUPPLIER
    - STAINLESS STEEL CONNECTORS MAY BE USED FOR ANY TYPES OF TREATED OR UNTREATED WOOD
    - SEE CHART BELOW FOR NAIL SIZE CONVERSION WITH CONNECTOR CHARTS.

|   | TYPE            | DIAMETER |
|---|-----------------|----------|
| • | 8d COMMON       | 0.131"   |
| • | 10d / 12 COMMON | 0.148"   |
| • | 16d COMMON      | 0.162"   |
- EXECUTION**
  - HANGARS AND FRAMED COMPONENTS SHALL BE FURNISHED BY THE MANUFACTURER WITH NAILS FOR SPECIFIC USE AND INSTALLATION.
  - ALL PRE-MANUFACTURED CONNECTORS SHALL HAVE NAILS / SCREWS / ANCHORS INSTALLED IN ACCORDANCE WITH THE CONNECTOR SCHEDULE AND MANUFACTURERS SPECIFICATIONS, FULLY DRIVEN.
  - ALL SOLE PLATES SHALL BE AS DESCRIBED HEREIN AND SHALL MEET THE FOLLOWING:
    - ALL ANCHOR BOLTS SHALL HAVE 2"x2"x1/4" PLATE WASHERS UNLESS NOTED OTHERWISE.
    - BOLTS SHALL BE LOCATED AT CORNERS AND JAMBS AND WITHIN 6" OF EACH END OR JOINT IN PLATE.
    - PLATES LESS THAN 20 INCHES IN LENGTH SHALL HAVE ONE ANCHOR INSTALLED IN THE MIDDLE THIRD OF THE PLATE LENGTH.
    - SLEEVE ANCHORS AND EXPANSION ANCHORS ARE NOT PERMITTED AT EXTERIOR WALLS.
    - REFER TO THE SOLE PLATE ANCHORAGE SCHEDULE ATTACHMENTS OF PLATE TO CONCRETE OR MASONRY.

| COMPONENTS AND CLADDING WIND PRESSURE FOR ROOF SHEATHING (PSF) |          |              |
|--|----------|--------------|
|  | ASD      | NAIL SPACING |
| ZONE 1 - INTERIOR:   | +22/-57  | 6" O.C.      |
| ZONE 2n - PERIMETER:   | +10/-97  | 6" O.C.      |
| ZONE 2r - RIDGE:   | +22/-77  | 6" O.C.      |
| ZONE 3r - CORNER:  | +10/-134 | 6" O.C.      |
| ZONE 3e - CORNER:  | +10/-126 | 4" O.C.      |

NOTES: EDGE DISTANCE = 3'-6"  
THE EFFECTIVE AREA FOR ZONES 1 AND 2 ARE 32 SF.  
THE EFFECTIVE AREA FOR ZONE 3 IS 13 SF.  
ROOF SHEATHING SHALL BE 19/32" MIN.  
ATTACHMENT SHALL BE 10d RINGSHANK NAILS 0.120" DIAMETER x 1.5" EMBEDMENT, FIELD AND EDGE SPACING SHALL BE THE SAME.



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

- STRUCTURAL ENGINEERING SCOPE OF WORK**
- BUILD NEW RAMPS, AND STAIRS PER THE STRUCTURAL PLANS AND ARCHITECTURAL PLANS.
  - REINFORCE THE ROOF FRAMING SYSTEM TO INCREASE THE WIND RESISTANCE STRENGTH PER THE PLANS.
  - SEE THE CIVIL AND ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

**GENERAL NOTES:**

- DESIGN CODE**
  - TO THE BEST OF THE DESIGN PROFESSIONALS KNOWLEDGE, THESE DOCUMENTS HAVE BEEN PREPARED WITH AND ARE IN COMPLIANCE WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTERS 553 AND 633 OF THE FLORIDA STATUTES. THESE DOCUMENTS MEET OR EXCEED THE REQUIREMENTS OF:
    - 2020 FLORIDA BUILDING CODE, SEVENTH EDITION, BUILDING, FBC.
- DESIGN CRITERIA**
  - ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 318 AND 332.
  - ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH ACI 305/530.1: AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE); TMS 402.
  - REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318.
  - ALL WOOD FRAMING SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS LISTED IN THE FLORIDA BUILDING CODE OF THE FOLLOWING REFERENCED DOCUMENTS:
    - NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION BY THE AMERICAN WOOD FOREST AND PAPER ASSOCIATION (AFPA)
    - TIMBER CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
    - ROOF AND WALL SHEATHING SHALL BE IN ACCORDANCE WITH APA PS1-95 OR NER-1080.
    - AMERICAN WOOD PROTECTION ASSOCIATION STANDARDS.
- DESIGN LOADS**
  - FLOOR LOADING:**
    - DEAD LOAD (DECK AND RAMPS) 10 PSF
    - DEAD LOAD (INTERIOR) 20 PSF
    - LIVE LOAD (INTERIOR) 60 PSF (BUSINESS AREAS)
    - LIVE LOAD (INTERIOR) 100 PSF (ASSEMBLY AREAS)
    - LIVE LOAD (BALCONY/STAIRS) 100 PSF or 300 LB POINT LOAD
  - GUARDRAIL/HANDRAIL 50 PLF AND 200 LBS IN ANY DIRECTION NON-CONCURRENT
- STRUCTURE SPECIFICATION**
  - BUILDING OCCUPANCY CATEGORY: II
  - CONSTRUCTION TYPE: V-B
  - WIND SPEED
    - ULTIMATE (LRFD) = 160 MPH
    - ALLOWABLE (ASD) = 124 MPH
  - WIND EXPOSURE CATEGORY: D
  - ENCLOSURE CLASSIFICATION: ENCLOSED (BUILDING)
  - INTERNAL PRESSURE COEFFICIENT: +/-0.18 (BUILDING)
  - ENCLOSURE CLASSIFICATION: OPEN (DECK)
  - INTERNAL PRESSURE COEFFICIENT: +/-0.00 (DECK)
  - WIND-BORNE DEBRIS AREA: YES
  - REFER TO DRAWINGS FOR STRUCTURE HEIGHT AND AREA
  - STRUCTURAL LOADS AND DESIGN PRESSURES LISTED IN THESE PLANS ARE ALLOWABLE (ASD) UNLESS NOTED OTHERWISE.
- PROJECT REQUIREMENTS**
  - THESE PLANS SHALL REMAIN ON THE PROJECT AT ALL TIMES.
  - THE CONTRACTOR AND SUB-CONTRACTORS SHALL STRICTLY ADHERE TO ALL APPLICABLE CODES DURING THE COURSE OF CONSTRUCTION, INCLUDING ALL STATE, CITY AND COUNTY BUILDING, ZONING, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE CODES, AS WELL AS ANY APPLICABLE HOMEOWNER ASSOCIATION REQUIREMENTS.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE DESIGN PROFESSIONAL OF RECORD OF ANY DISCREPANCIES OR CONFLICT WITH APPLICABLE CODES PRIOR TO CONSTRUCTION.
  - THE ARCHITECT / ENGINEER SHALL NOT BE RESPONSIBLE FOR SAFETY PROCEDURES, THE MEANS AND METHODS OF CONSTRUCTION, TECHNOLOGIES OR THE FAILURE OF THE CONTRACTOR TO COMPLETE THE WORK IN ACCORDANCE WITH DRAWINGS, SPECIFICATIONS OR THE RELATED CODES.
  - THE CONTRACTOR SHALL FULLY REVIEW ALL ITEMS CONTAINED IN THE DRAWINGS AND SHALL COORDINATE ALL DIMENSIONS, LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, EMBEDS, SLEEVES, ETC.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCING. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR HIRING A DESIGN PROFESSIONAL FOR TEMPORARY SHORING OR LIFTING PROGRAMS.
  - NOTES, DETAILS, AND SECTIONS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. "TYPICAL" DETAILS SIMPLY REFER TO ALL CONDITIONS TREATED SIMILARLY. CONTRACTOR SHALL MAKE MINOR MODIFICATIONS TO ACCOMMODATE MINOR SIMILAR VARIATIONS.
  - THE CONTRACTOR SHALL MAKE NO STRUCTURAL CHANGES OR MODIFICATIONS WITHOUT EXPRESSED WRITTEN APPROVAL OF THE ENGINEER OF RECORD IN ADVANCE.

**PROJECT NUMBER:**  
19B013

| Date       | Description | No. |
|------------|-------------|-----|
| 08/17/2023 | REVIEW SET  | AM  |
|            |             | TS  |

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

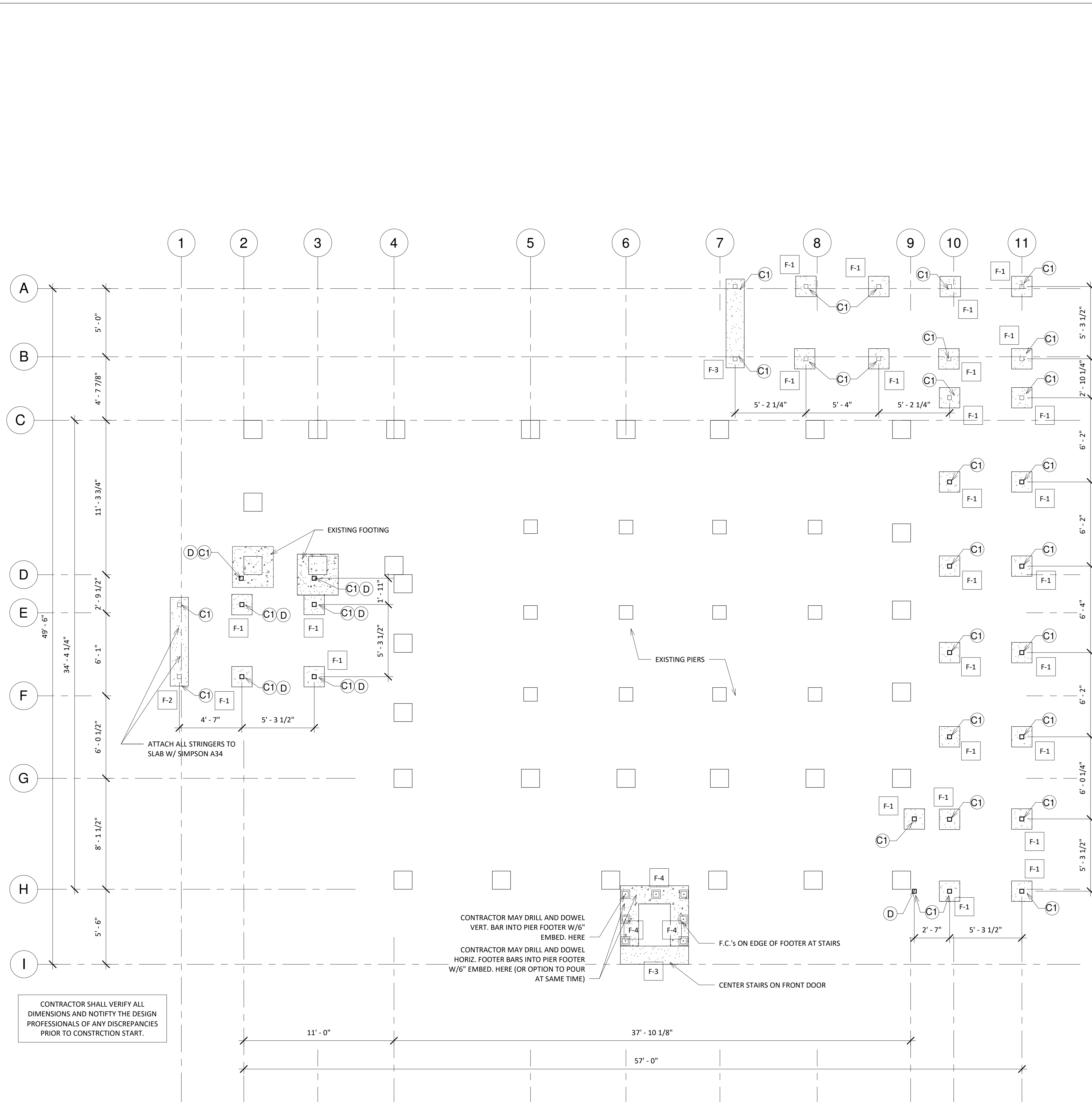
Structural Notes

SO.10

1 OF 7

| Category - Subcategory | Approval Number | Manufacturer              | Model Number          | Building Design Pressures (+PSF / -PSF) | Product Design Pressures (+PSF / -PSF) |
|------------------------|-----------------|---------------------------|-----------------------|---|--|
| Roofing - Metal        | NOA 22-0909.13  | Drexel Metals, Inc.       | 26 Ga. 5V crimp       | -90                                     | -121                                   |
| Roofing - Underlayment | NOA 22-1221.01  | Polyglass USA, Inc.       | Roof Underlayment     | N/A                                     | N/A                                    |
| Windows - Single Hung  | NOA 20-0722.13  | CGI Windows & Doors, Inc. | Series "360" (Impact) | +43/-58                                 | +100/-210                              |

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



### 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) 10d x 1.5"                                      | 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 |               |

- 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

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |

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

COL 3:12-17

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 FLOOR FRAMING  
 7770 JUNGLE TRAIL  
 INDIAN RIVER COUNTY, 32963  
 VERO BEACH, FL

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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
- 2x4 CROSS BRACING AT POSTS W/ (3) #10 SCREWS
- CONNECTOR - SEE SCHEDULE
- BEAM - SEE SCHEDULE
- LEDGER - SEE SCHEDULE
- EXISTING JOIST -SEE SCHEDULE
- JOIST - SEE SCHEDULE

Framing Legend  
N.T.S.

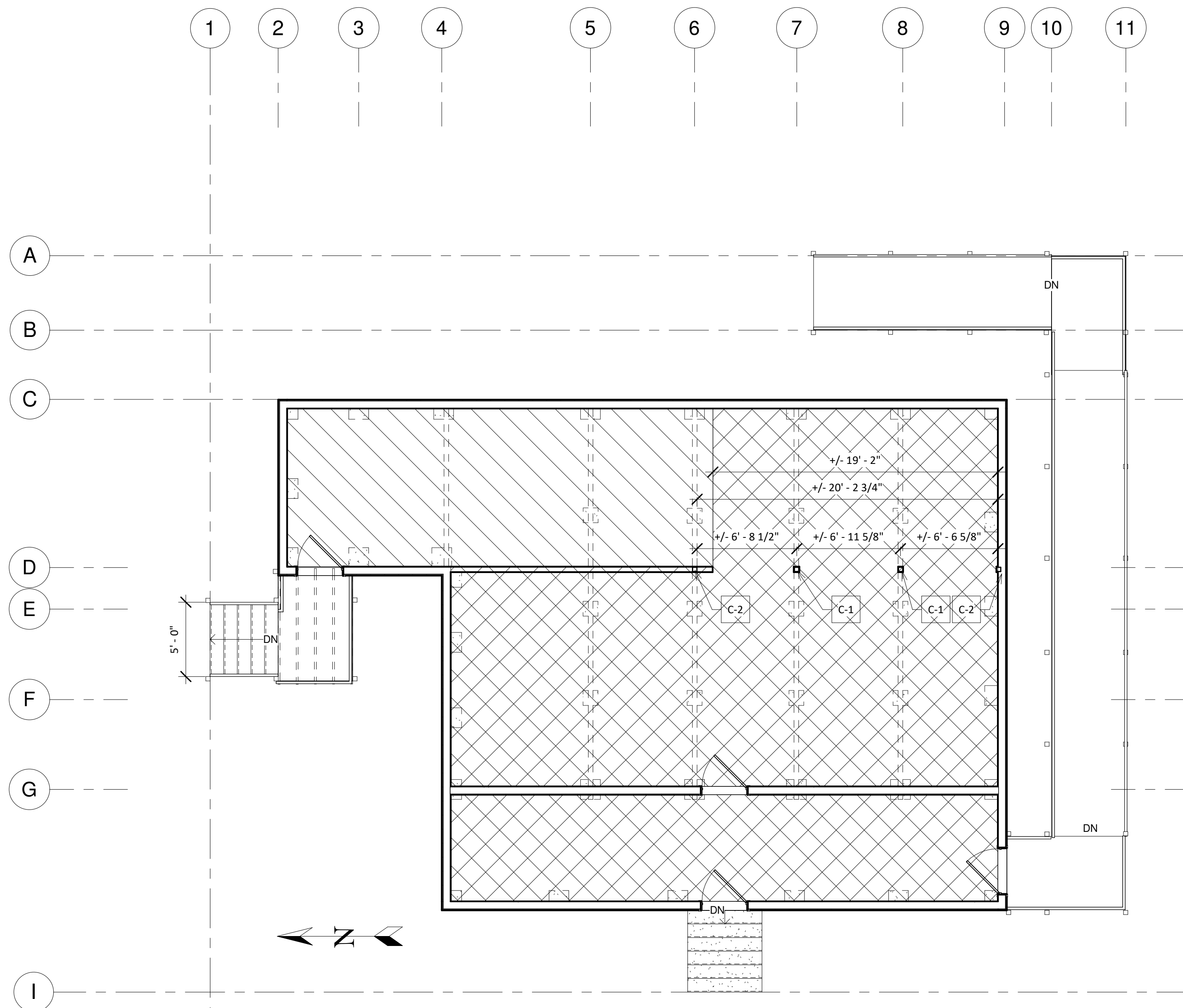
| Member Type/ Mark                | Connector Type    | Connectors  | Uplift Needed    | Uplift Provided | Comments                         |
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| A - Strap at CMU to 4x6          | LTA2              | (10) .148"x1.5" Nails and Embed in Pier                                   | 1,000 lbs (Lat.) | 1,180 lbs       | Simpson or Equal                 |
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| G Alt. - Strap - Middle Stringer | H10A-SS           | (18) 10d x 1.5"   | 800 lbs          | 970 lbs         | Simpson or Equal                 |
| H - Strap - Stringer             | H10A55            | (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                 |
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| L - Hanger - (2)2x               | LUS26-2           | (8) .162"x3.5" Nails  | 925 lbs (Down)   | 1,060 lbs       | Simpson or Equal                 |
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### Beam/Joist Schedule

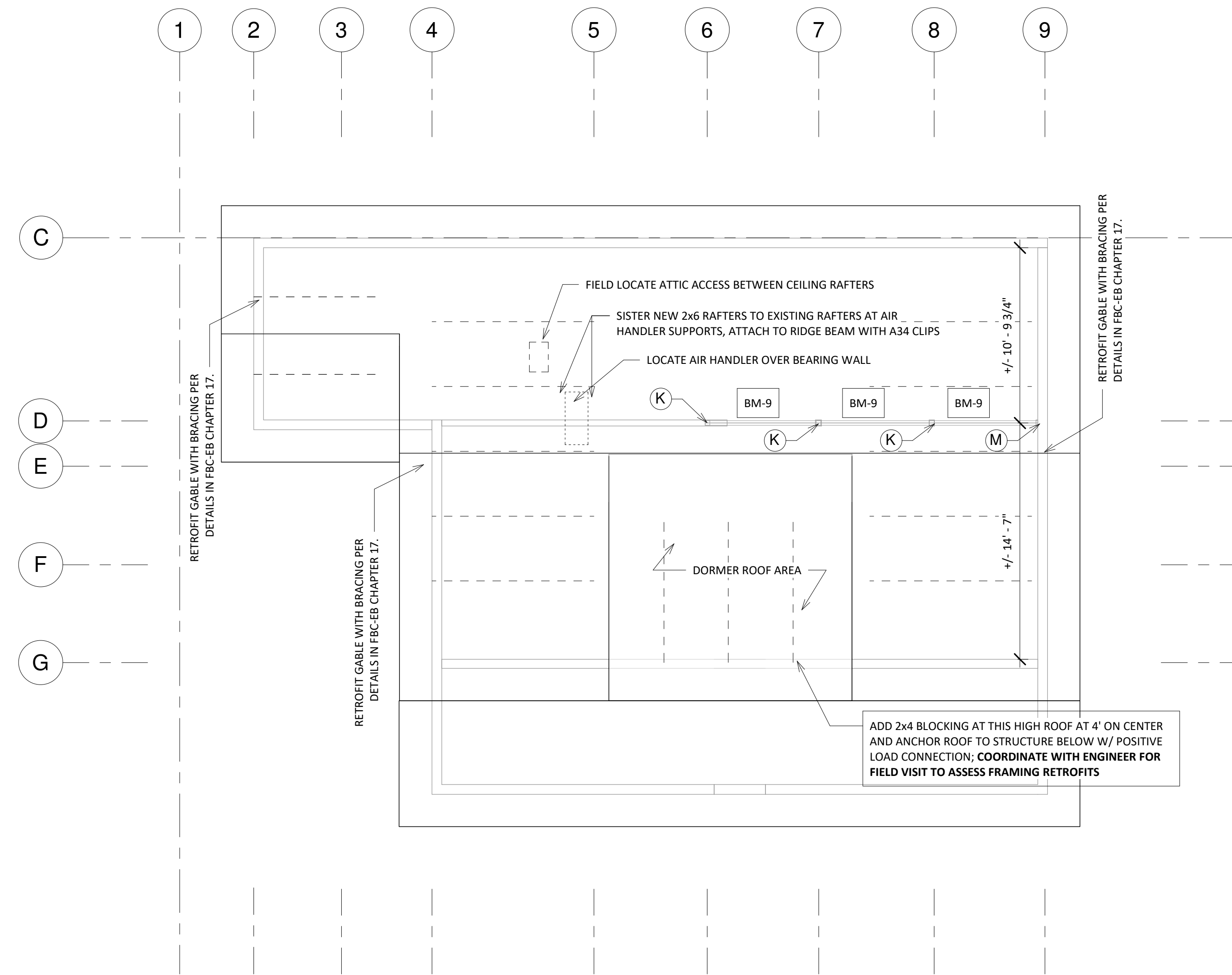
| Mark | Beam / Column                        | Comment                             |
|------|--------------------------------------|-------------------------------------|
| BM-1 | (1) 2x8                              | P.T. SYP Beam attach to Exist. Beam |
| BM-2 | (1) 2x12                             | 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                      |

### 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

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |
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ISSUE DATE: 08/17/2023  
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DRAWN BY: AM/ZN  
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COL 3:12-17

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7770 JUNGLE TRAIL  
VERO BEACH, FL  
INDIAN RIVER COUNTY, 32963

Structural Floor Plan  
and Roof Framing Plan

S2.10

4 OF 7









HISTORIC  
RESIDENCE  
MUSEUM

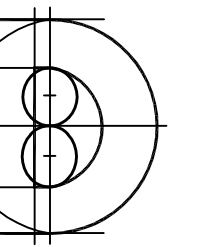
7770 Jungle Trail  
Vero Beach FL 32963  
for  
Indian River County Parks  
Division

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 | DHR REVISIONS         |
| E.   | 08/18/23 | BID PACKAGE           |

Architect:



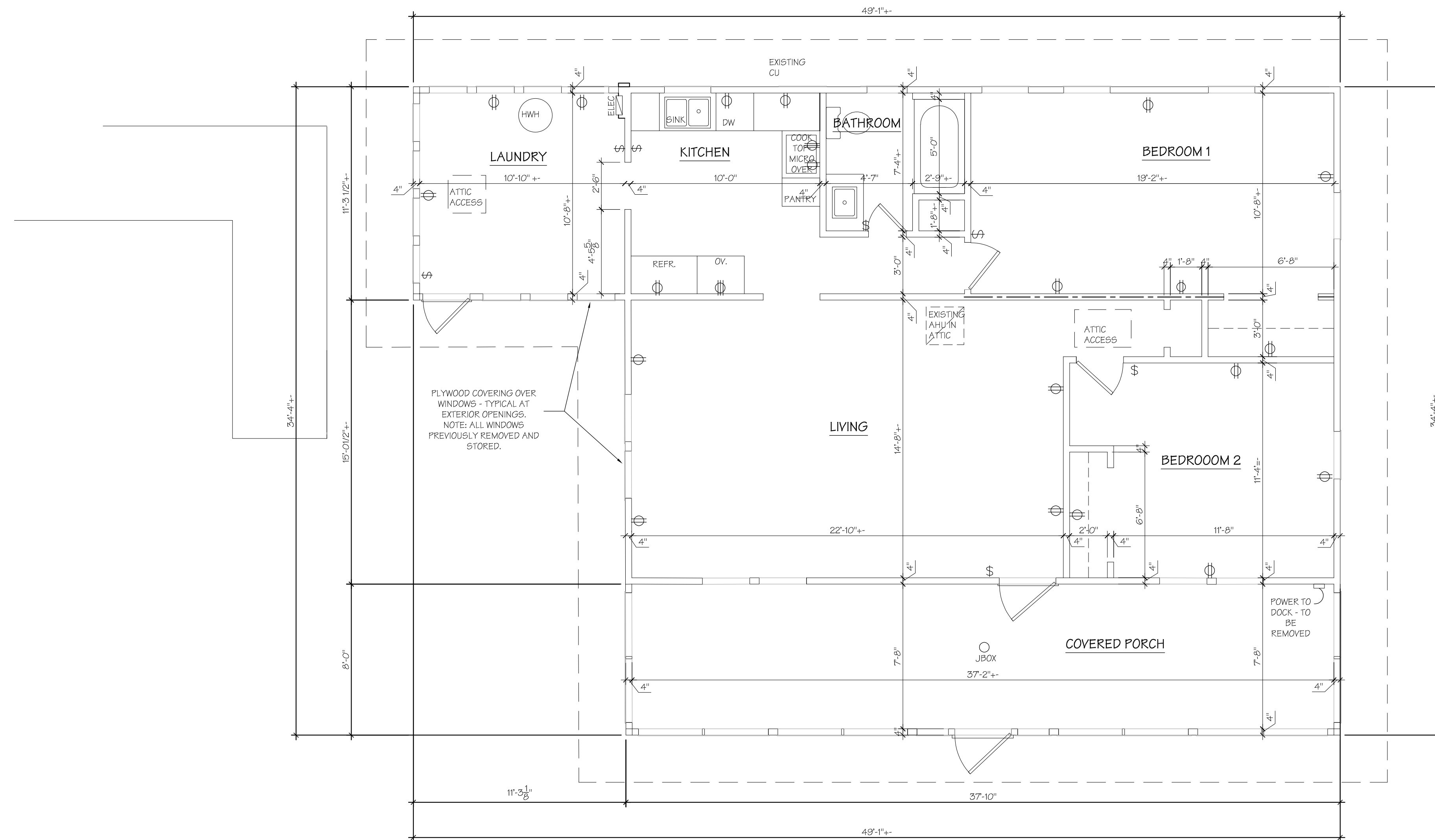
**DONADIO**  
& Associates, Architects P.A.

A Spieze Group Inc. Company



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2001 9th Avenue, Suite 308  
Vero Beach, FL 32960  
Tel: 772.794.2009  
Fax: 772.562.8800  
License No. AA0002208  
www.spieze.com

Consultant:



01 EXISTING FLOOR PLAN

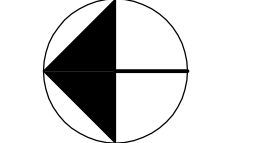
SCALE: 1/4" = 1'-0"

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).

Drawing Title:  
HISTORIC RESIDENCE  
EXISTING FLOOR PLAN

Reference North

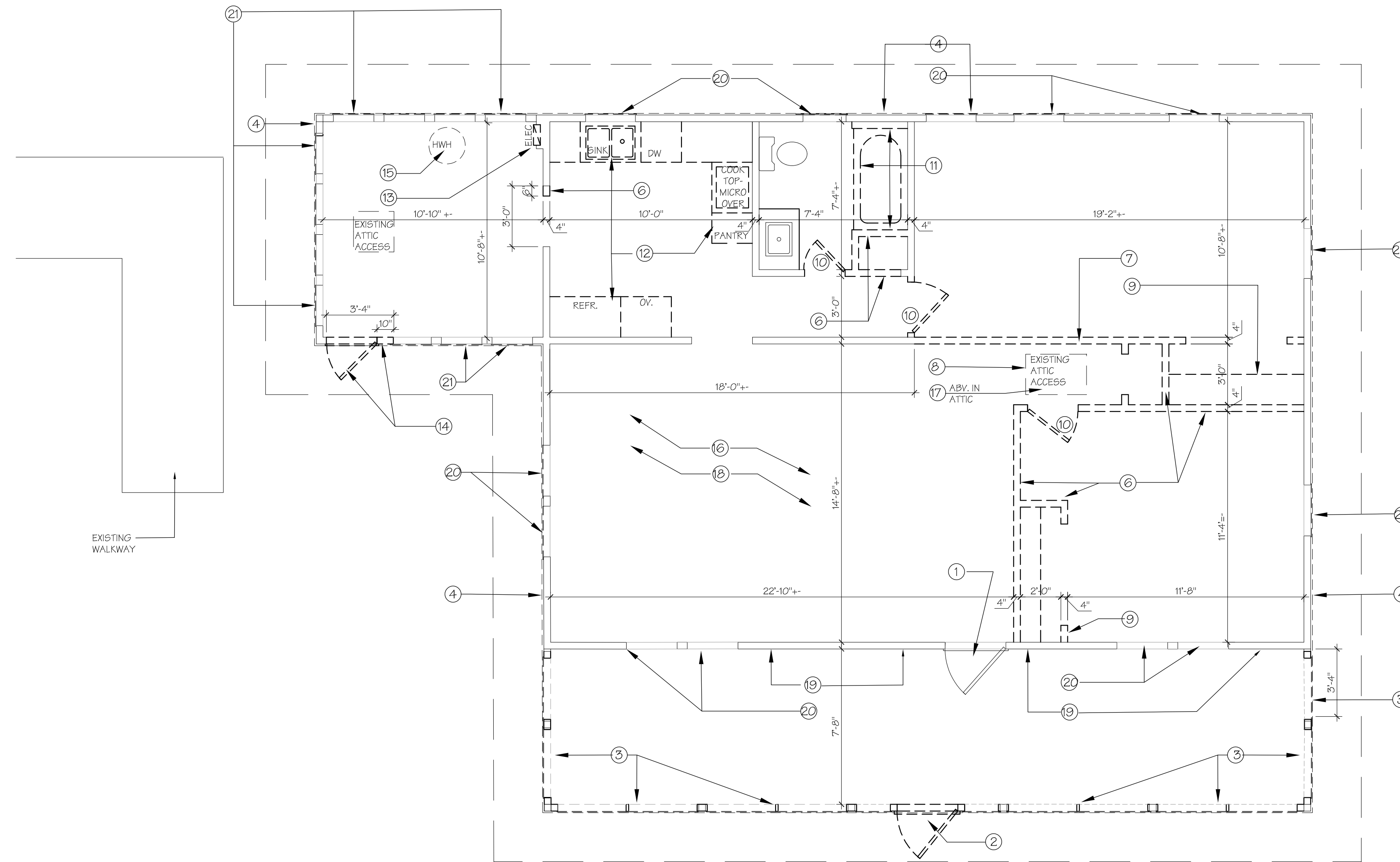


Drw: J.L.H. Dwg. File:  
Chd: XREF File:  
Project No: 2018-23.03 Plot File:  
Sheets: spieze: 21Z015

Cert. No.: 12,456

Date Signed: EC 2.10





**01 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**  
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           |

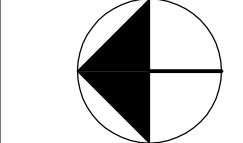
**Architect:**



**Consultant:**

Drawing Title:  
**HISTORIC RESIDENCE  
DEMOLITION PLAN**

Reference North



|              |            |            |                |
|--------------|------------|------------|----------------|
| Drwn:        | JLH        | Dwg. File: |                |
| Chd:         | TP         | XREF File: |                |
| Project No.: | 2018-23.03 | Plot File: | spieze: 21Z015 |
| Sheet No.:   |            |            |                |

Cert. No.: 12,456

Date Signed:

**D 2.10**

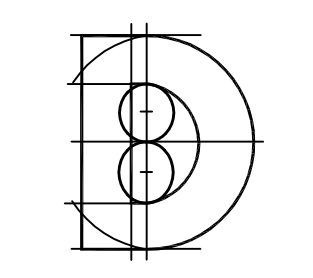


Key Plan:

Issues:

| No. | Date:    | Description:          |
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| 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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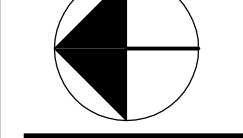
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2001 8th Avenue, Suite 308  
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Tel: 772.794.2929  
Fax: 772.262.8000  
License No. RA00022018  
www.spieze.com

Consultant:

Drawing Title:

HISTORIC MUSEUM  
PROPOSED FLOOR PLAN

Reference North



|              |            |            |                |
|--------------|------------|------------|----------------|
| Drawn:       | JLH        | Dwg. File: |                |
| Chd:         |            | XREF File: |                |
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| Sheet No.:   |            |            |                |

Cert. No.: 12,456

Date Signed:

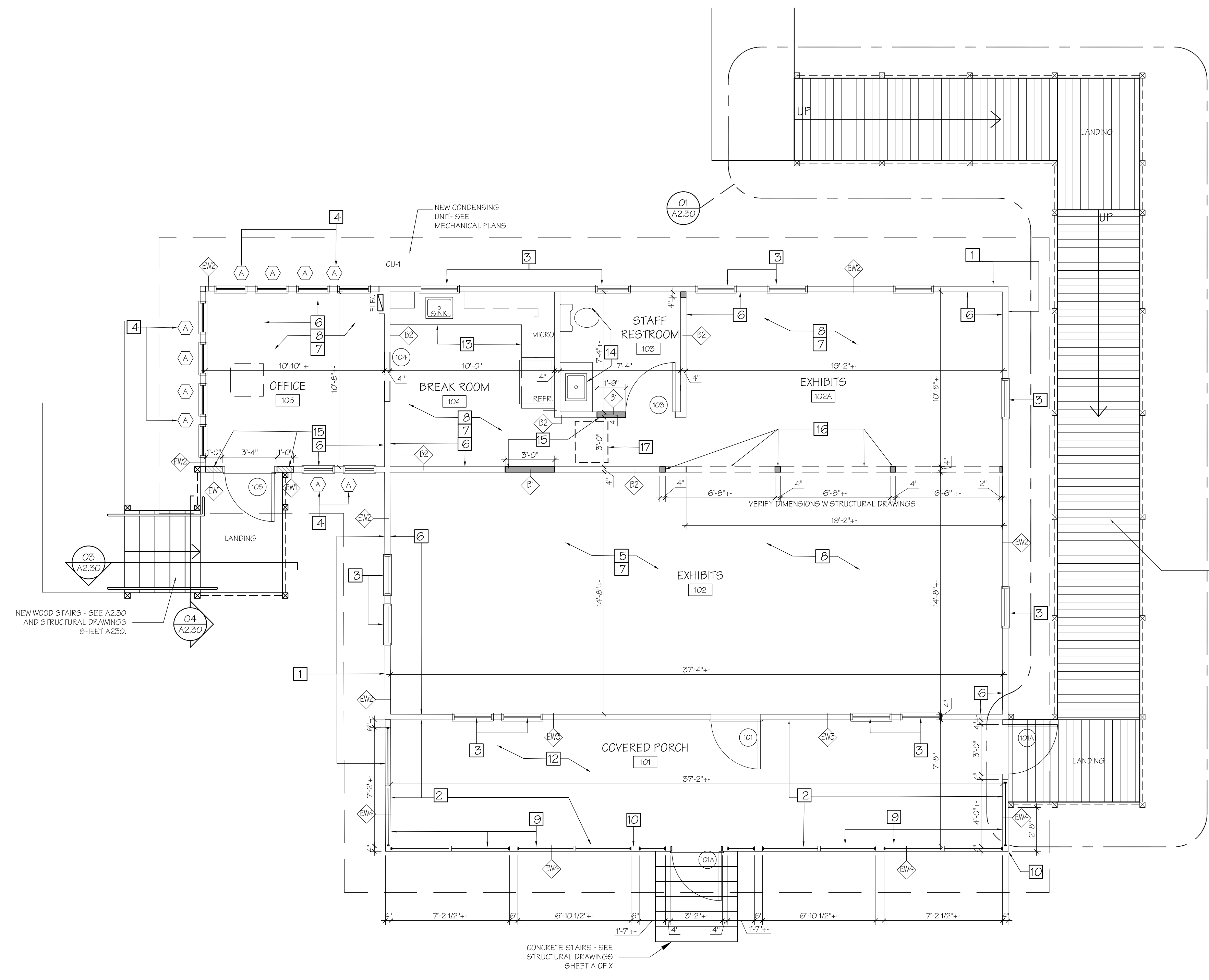
A 2.10

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; 3/8" R-11 BATT INSULATION & WALL PANELING @ INTERIOR.
- EW2 = EXISTING EXTERIOR WALL - NEW 5/8" CDX PLYWOOD SHEATHING, VAPOR BARRIER, 3/8" 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  |
| OFFICE                      | 126 SF  |
| TOTAL AIR CONDITIONED SPACE | 1036 SF |
| PORCH                       | 303 SF  |
| TOTAL AREA UNDER ROOF       | 1339 SF |

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HISTORIC  
RESIDENCE  
MUSEUM

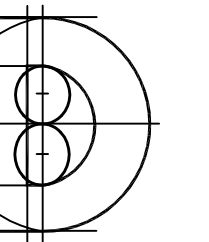
7770 Jungle Trail  
Vero Beach FL 32963  
for  
Indian River County Parks  
Division

Key Plan:

Issues:

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

Architect:



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



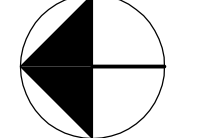
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2001 8th Avenue, Suite 308  
Vero Beach, FL 32963  
Tel: 772.794.2029  
Fax: 772.262.8009  
License No. RA00022318  
www.spieze.com

Consultant:

Drawing Title:

HISTORIC MUSEUM  
ENLARGED PLANS & DETAILS

Reference North

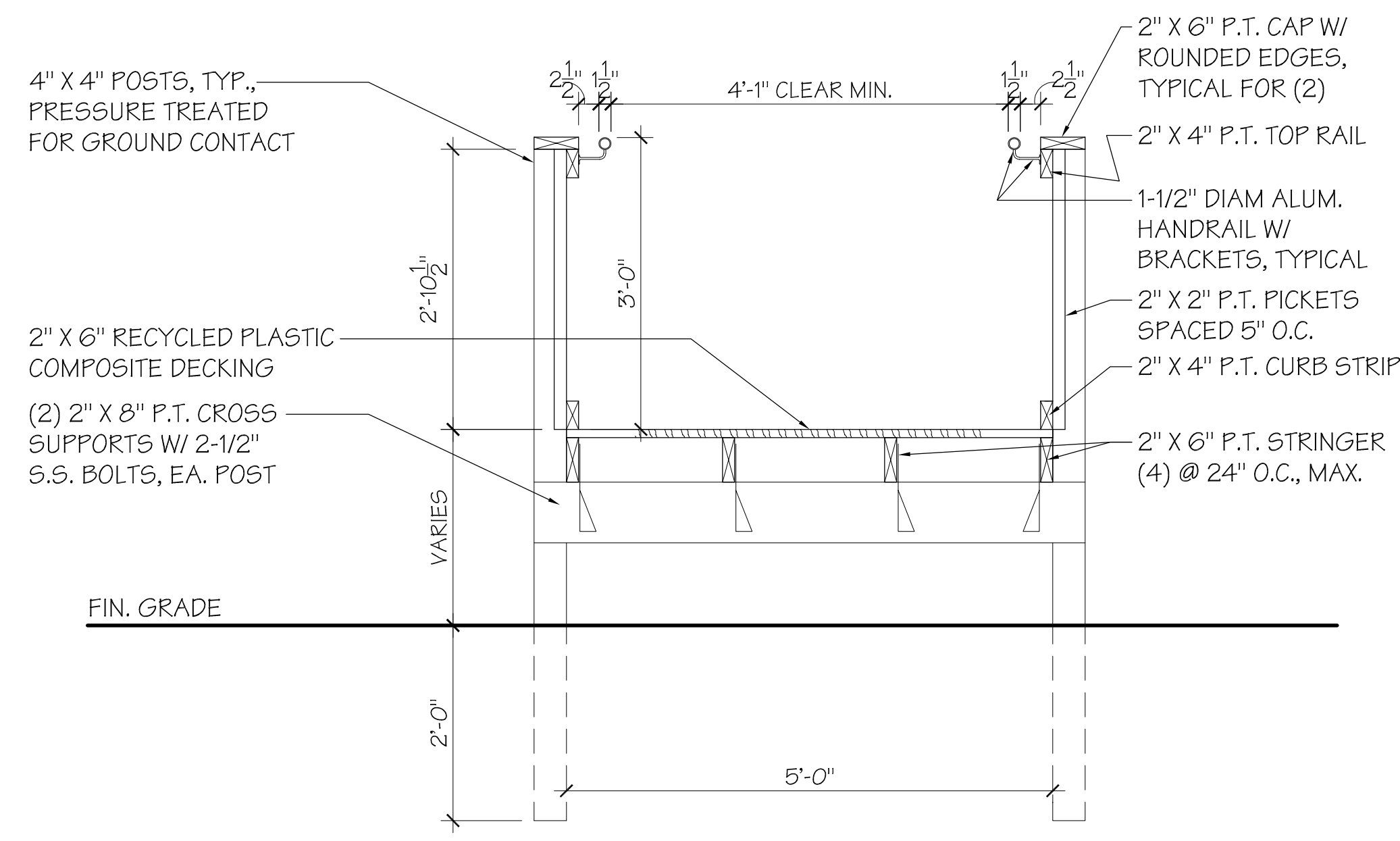


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TD  
Plot File:  
2019-23\_03\_spieze: 212015  
Sheet No.:

Cert. No.: 12,456

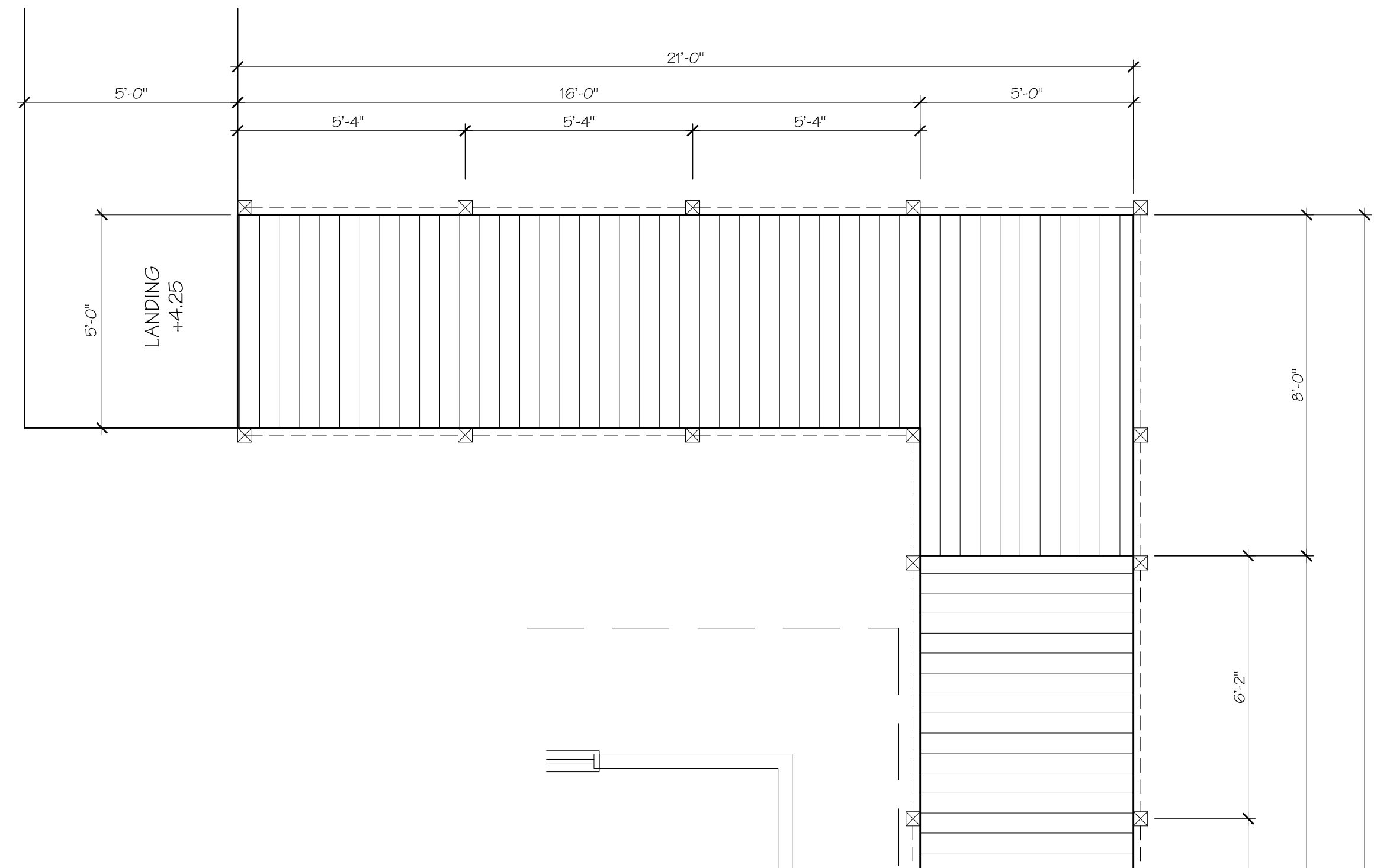
Date Signed:

A 2.30



02 SECTION- RAMP

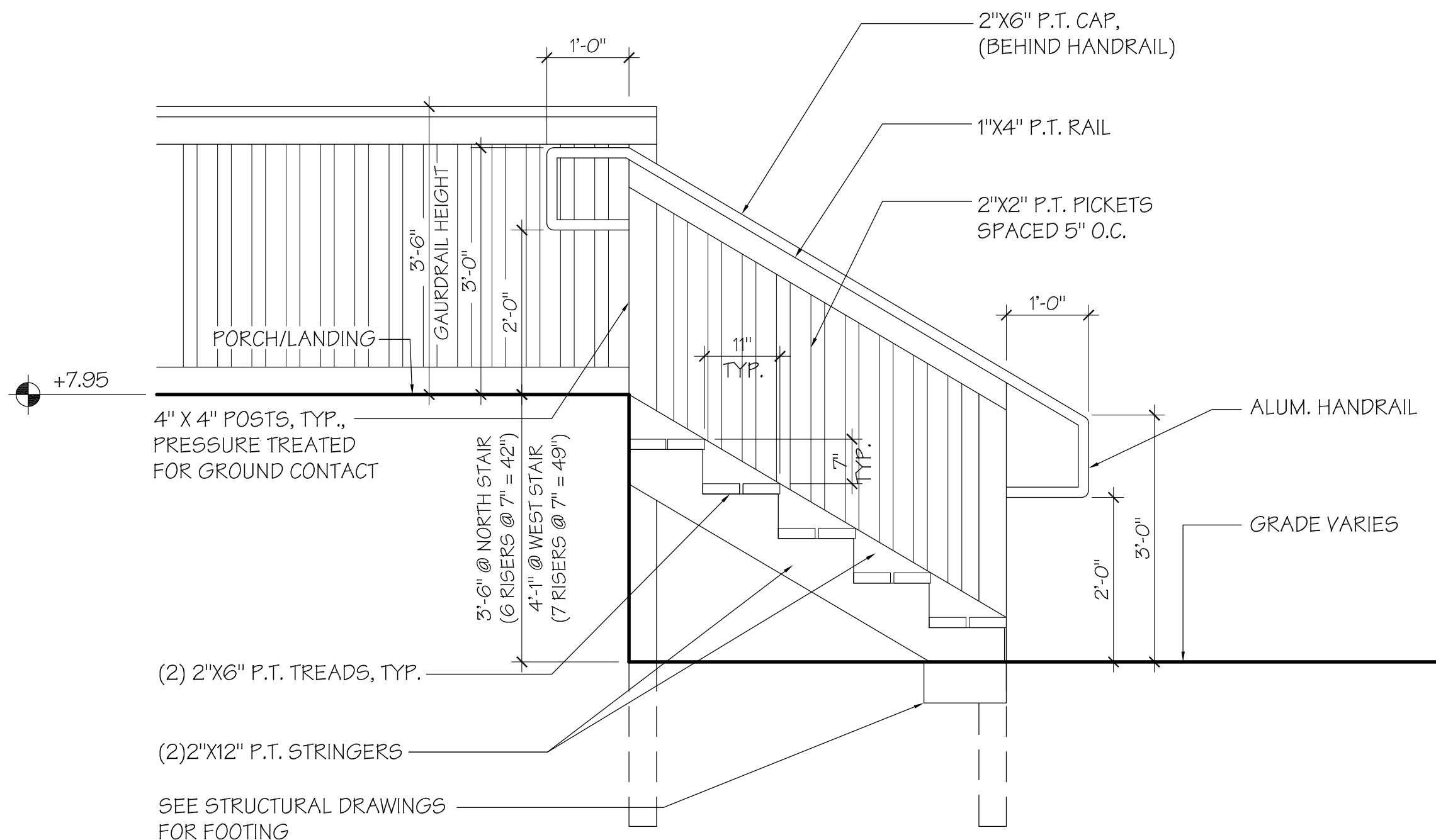
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01 ENLARGED PLAN- RAMP

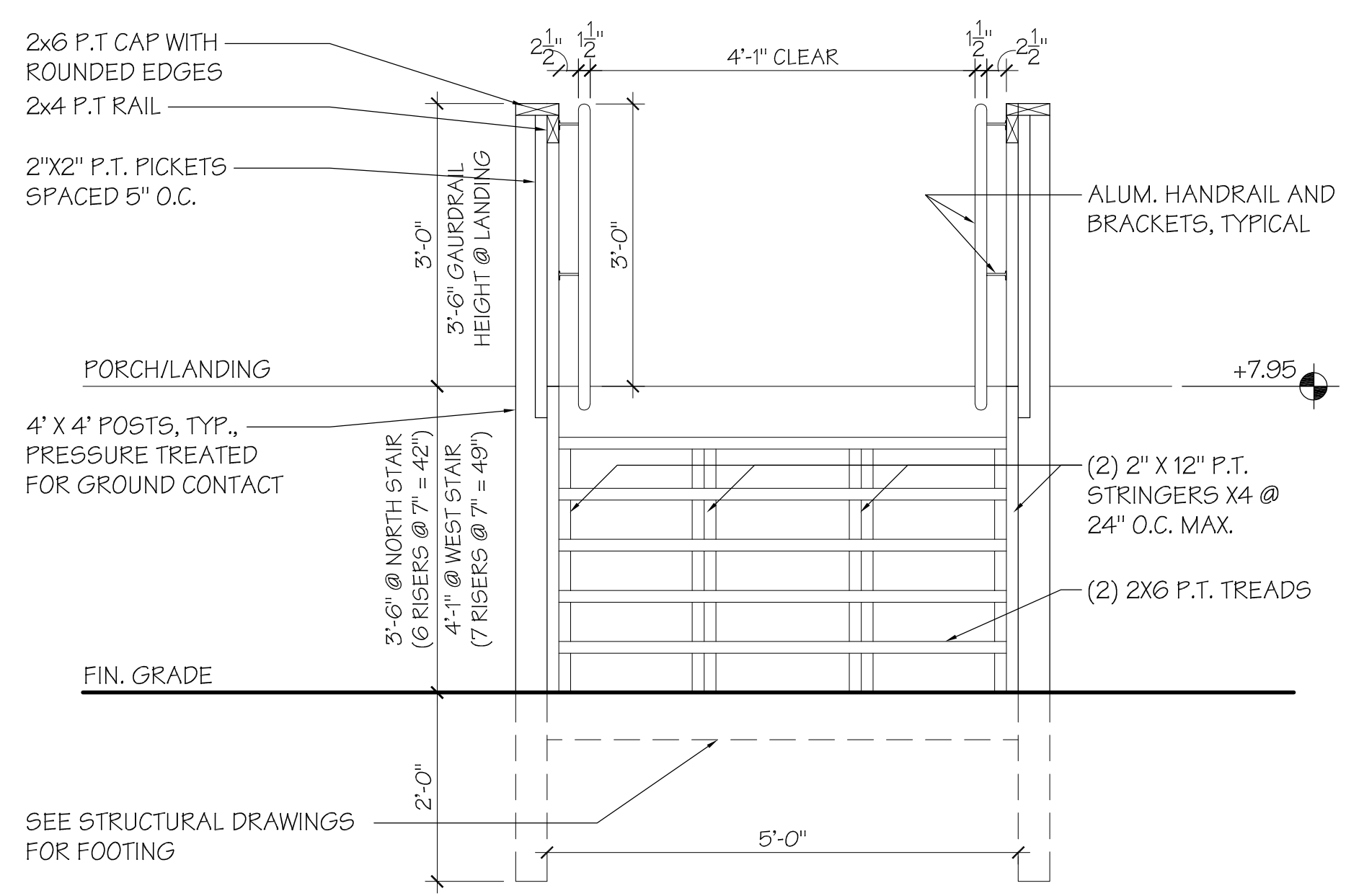
NOTE: SEE STRUCTURAL  
DRAWINGS.

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



03 TYPICAL STAIR DETAIL

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

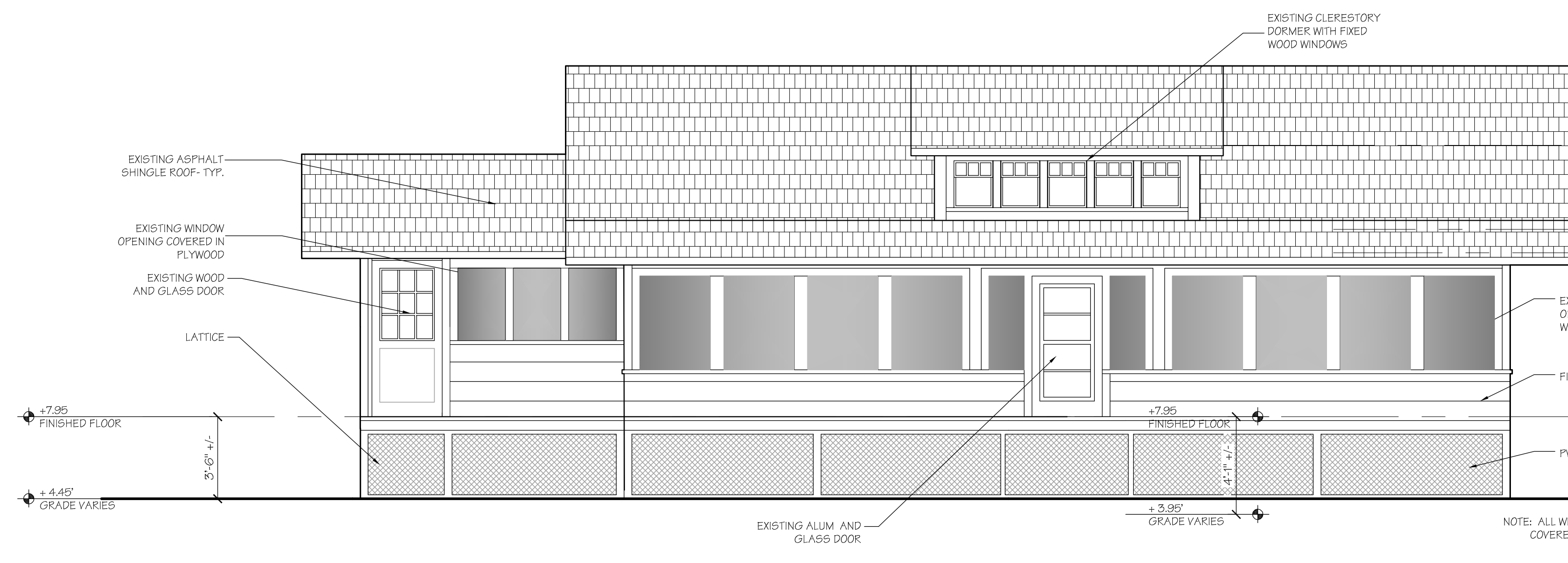


04 SECTION- STAIRS

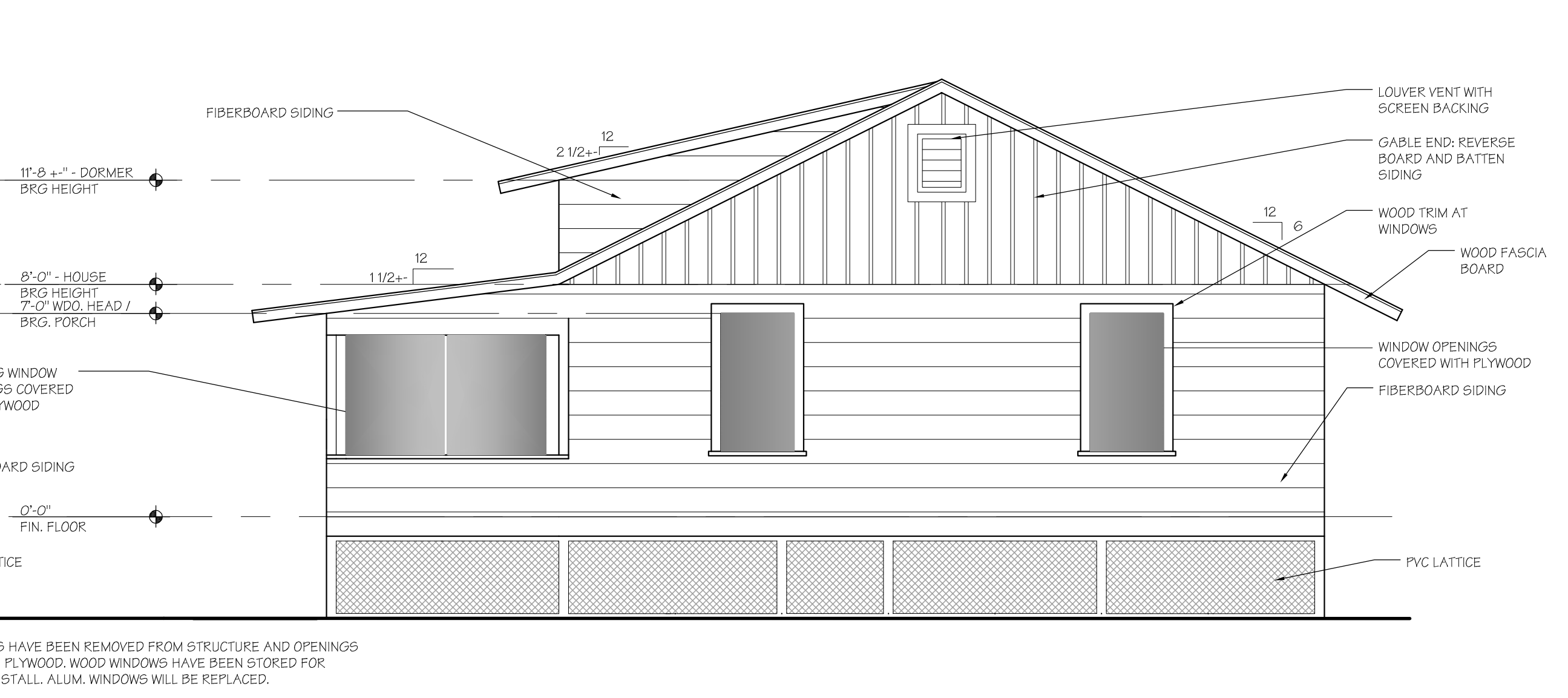
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Key Plan:



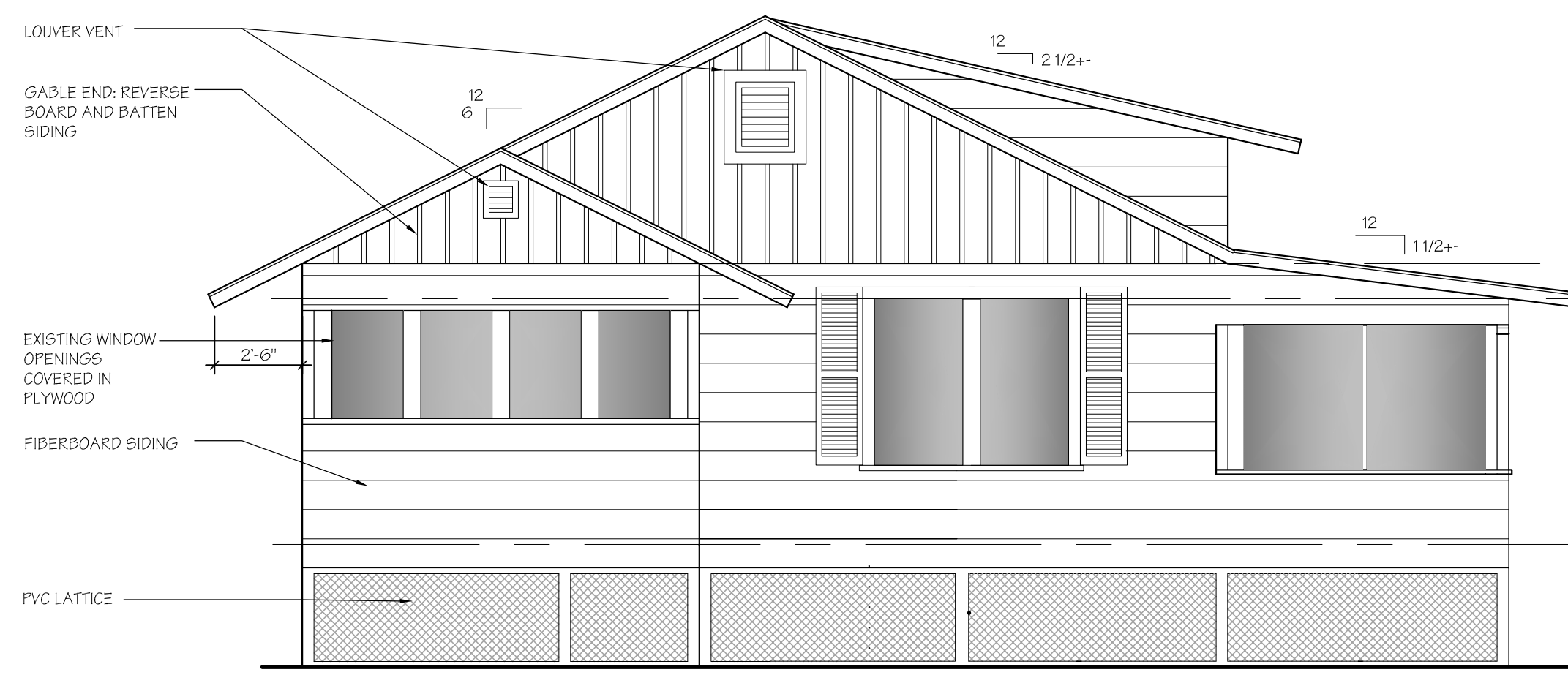
01 WEST ELEVATION - EXISTING  
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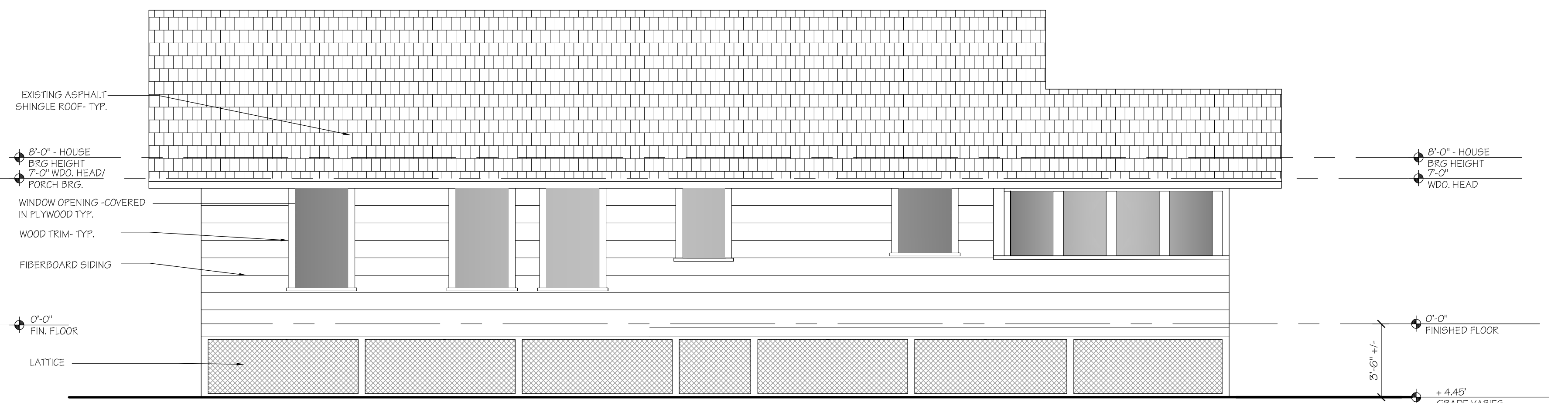
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Issues:

| 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

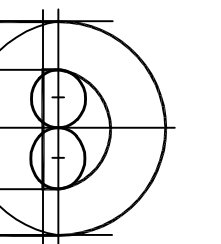
7770 Jungle Trail  
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Indian River County Parks  
Division

Key Plan:

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| No.: | Date:    | Description:          |
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Architect:



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www.spieze.com

Consultant:

Drawing Title:

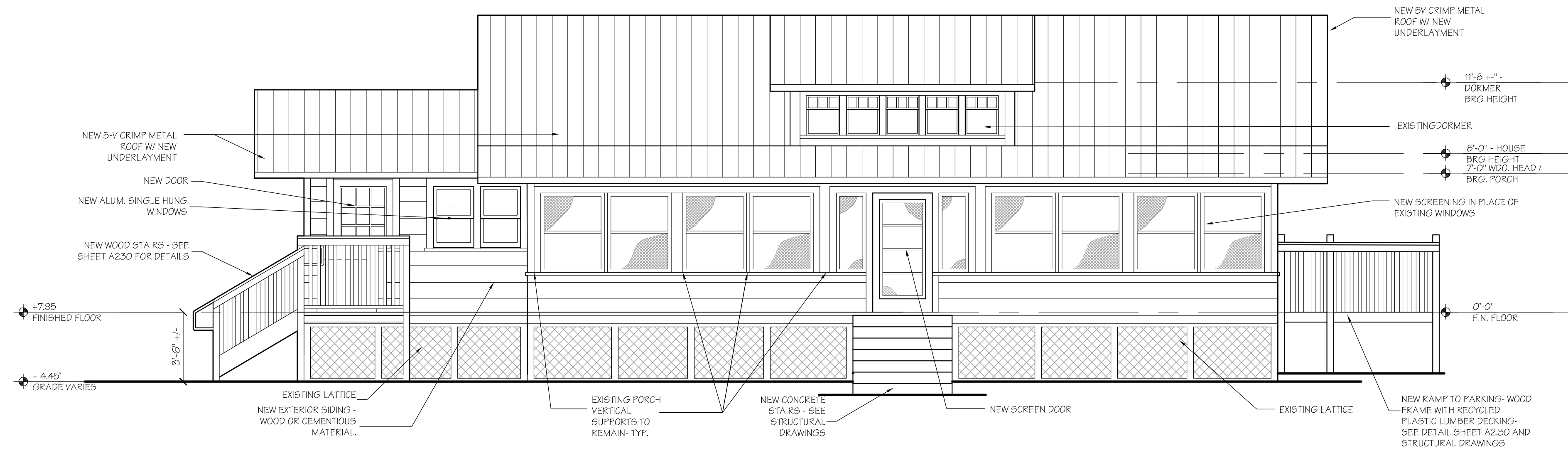
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PROPOSED ELEVATIONS

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

Cert. No.: 12,456

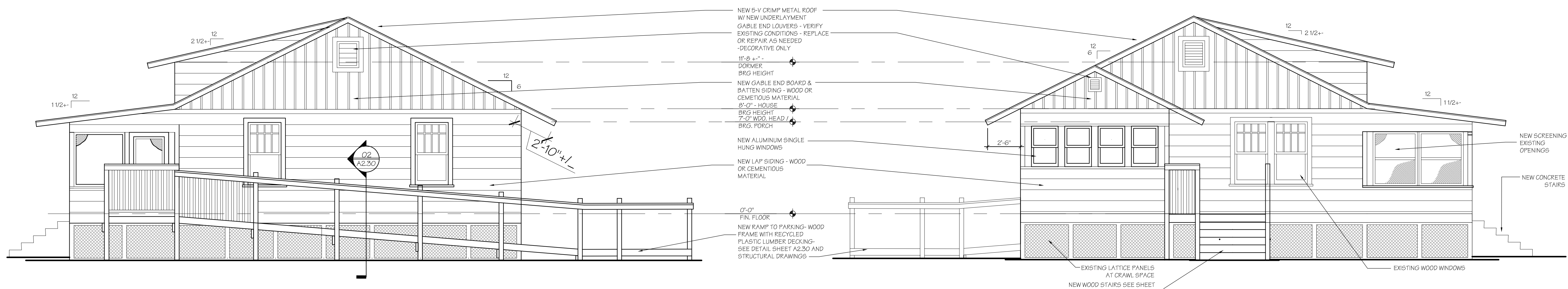
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01 WEST ELEVATION - PROPOSED

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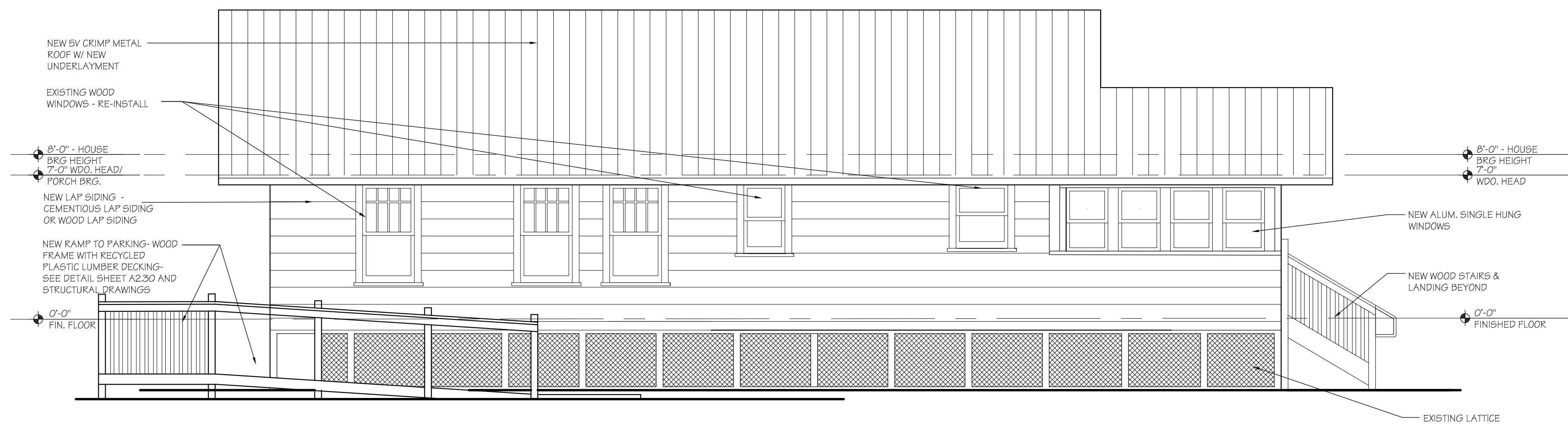


02 SOUTH ELEVATION - PROPOSED

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

03 NORTH ELEVATION - PROPOSED

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



04 EAST ELEVATION - PROPOSED

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



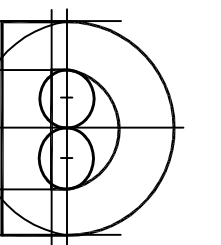
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| E.   | 08/18/23 | BID PACKAGE           |

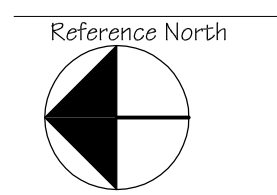
Architect:



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**spiezie**  
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Tel: 772.794.2929  
Fax: 772.863.9999  
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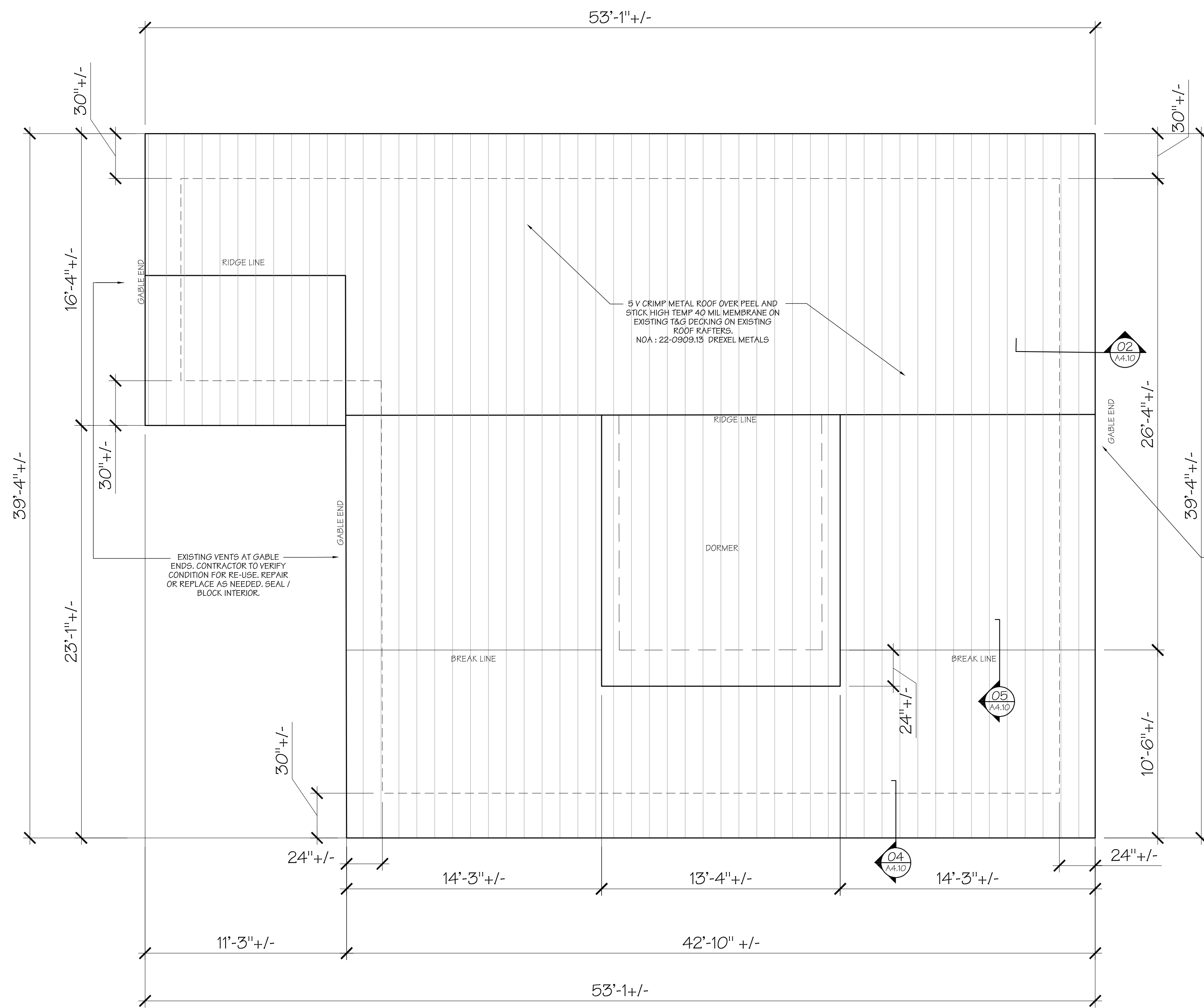
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HISTORIC MUSEUM  
PROPOSED ROOF PLAN



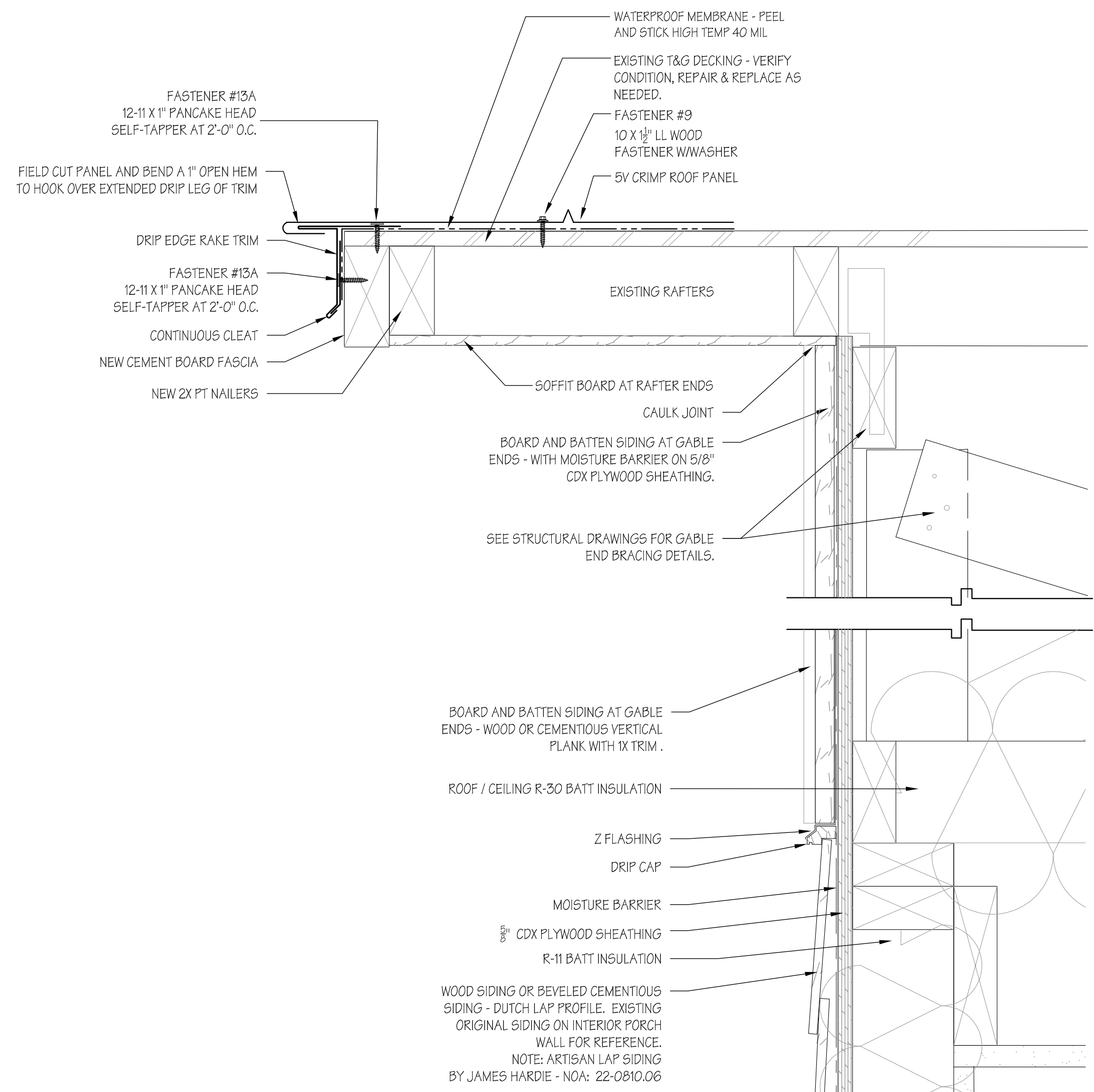
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Cert. No.: 12,456

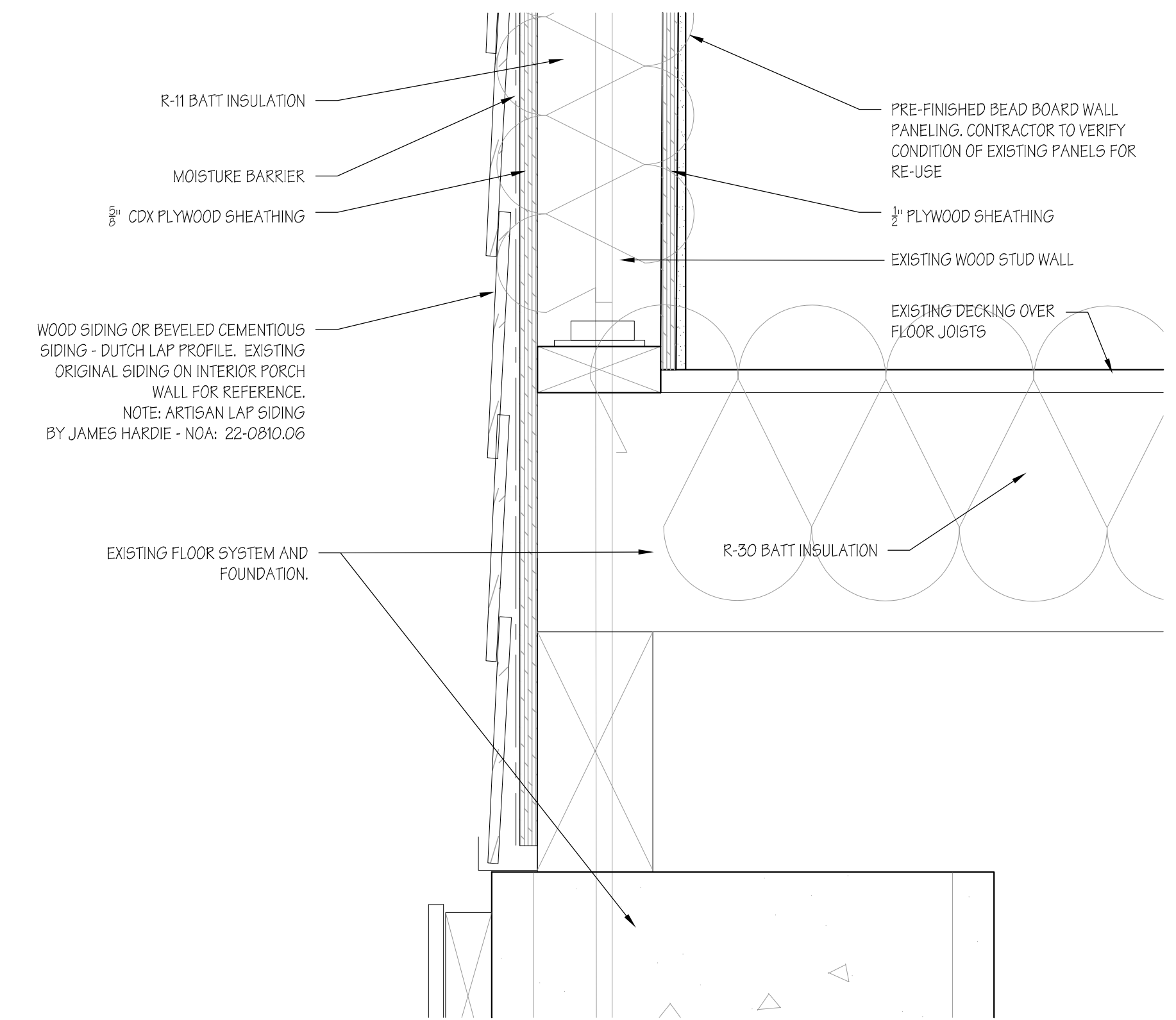
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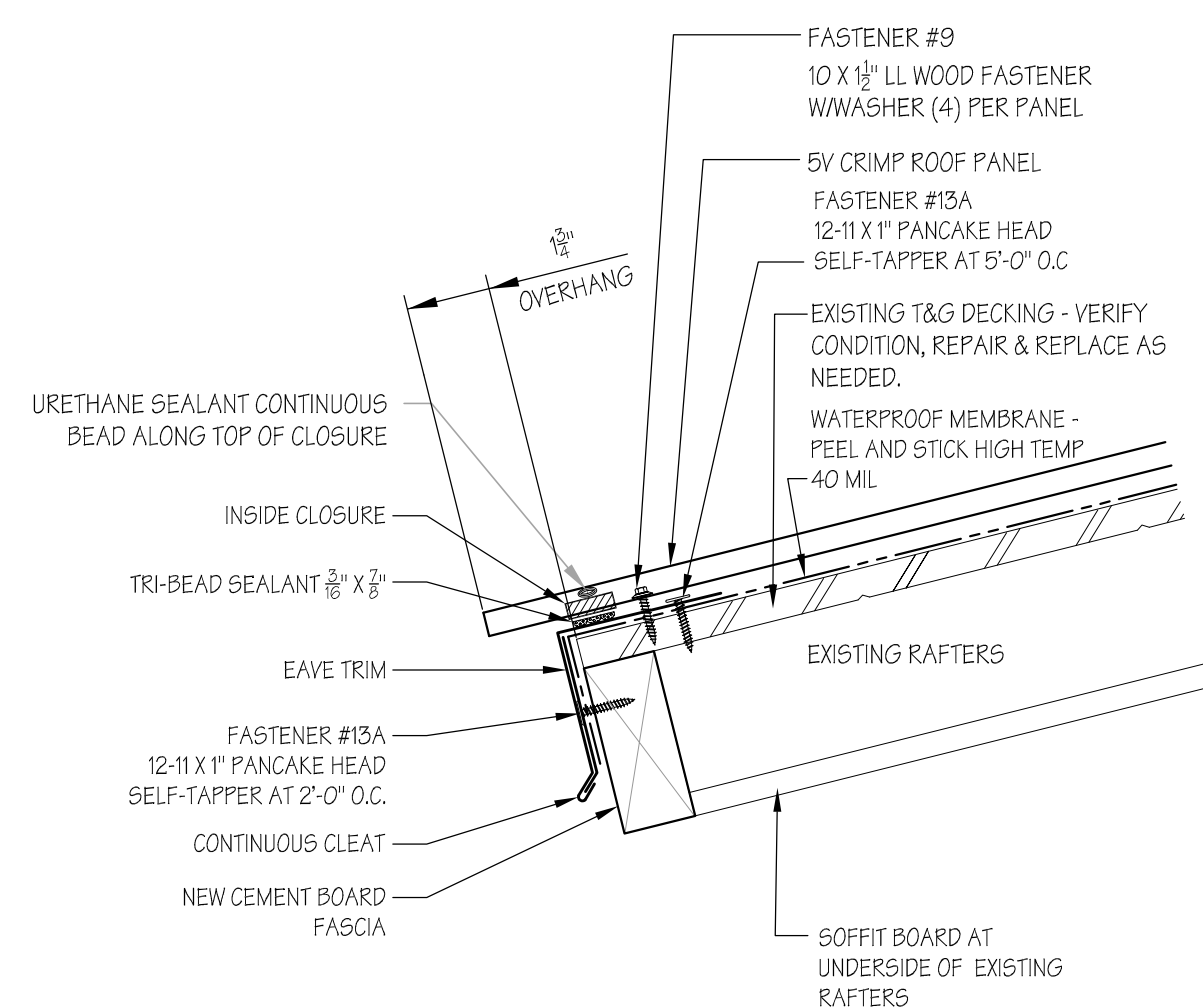
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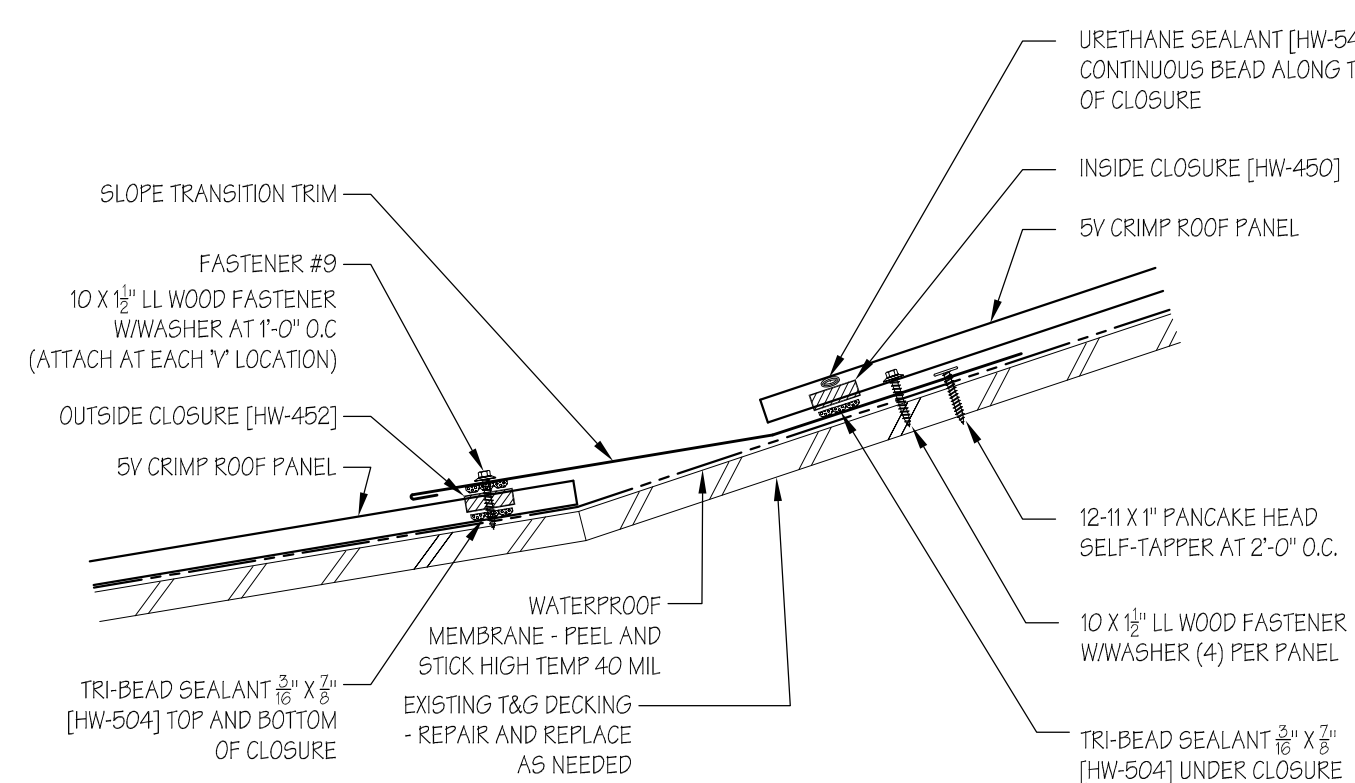
02 GABLE END DETAIL  
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03 TYPICAL WALL SECTION  
SCALE: 3" = 1'-0"



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



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

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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.







### LIGHTING FIXTURE SCHEDULE

| SYMBOL | TYPE | DESCRIPTION   | NO.      | LAMPS     | WATT  | DRIVER   | VOLTAGE | MOUNTING         | REMARKS |
|--------|------|---|----------|-----------|-------|----------|---------|------------------|---------|
|        | A    | LED TRACK LIGHTING  | INTEGRAL | LED 3500K | 5     | STANDARD | 120     | SURFACE MOUNTED  | ①       |
|        | B    | 4' LED LENSED STRIP H.E. WILLIAMS "AVEK" SERIES                                 | INTEGRAL | LED 3500K | 56    | STANDARD | 120     | SURFACE MOUNTED  | ①       |
|        | C    | LED SECURITY LIGHT STONCO "SL20" WITH INTEGRATED MOTION AND DAY LIGHTING SENSOR | INTEGRAL | LED 3000K | 20    | STANDARD | 120     | SURFACE MOUNTED  | ①       |
|        | D    | 4' LED DOWNLIGHT Q-TRAN "SW24/A.0" WET LOCATION RATED                           | INTEGRAL | LED 3500K | 15    | STANDARD | 120     | CEILING RECESSED | ①       |
|        | E    | LED TAPE LIGHT Q-TRAN "SW24/A.0" WET LOCATION RATED                             | INTEGRAL | LED 3000K | 4W/FT | STANDARD | 120     | SURFACE MOUNTED  |         |
|        |      | THERMOPLASTIC EMERGENCY BATTERY PACK AND EXIT LIGHT COMBO PACO "PCH" SERIES     | 2        | -         | 12    | -        | -       | -                |         |

NOTES:  
① VERIFY CEILING TYPES PRIOR TO ORDERING FIXTURES.

GENERAL NOTE:  
NO SUBSTITUTIONS TO THE LIGHT FIXTURE SCHEDULE CONTAINED IN THESE DOCUMENTS WILL BE CONSIDERED WITHOUT PRIOR REVIEW AND/OR APPROVAL BY THE ARCHITECT AND ELECTRICAL ENGINEER.

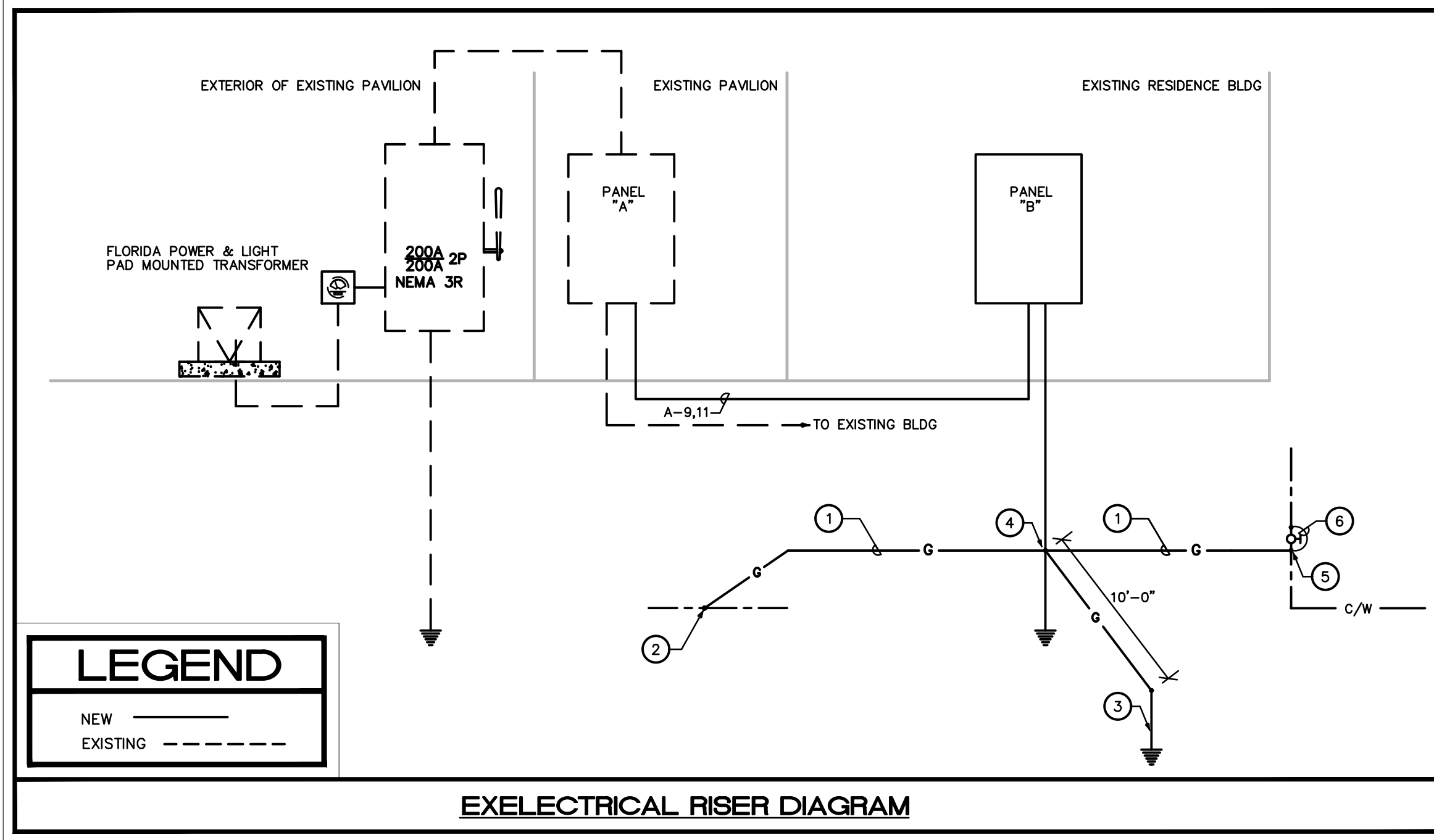
### SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL "A"

| DESCRIPTION                 | WIRE | GND. | COND.  | TRIP | OKT. | A PHASE KVA | C PHASE KVA | OKT.           | TRIP | COND. | GND. | WIRE | DESCRIPTION                 |
|-----------------------------|------|------|--------|------|------|-------------|-------------|----------------|------|-------|------|------|-----------------------------|
| EXISTING LIGHTING           | -    | -    | -      | 20   | 1    | 0.2         | 0.6         | 2              | 20   | -     | -    | -    | EXISTING RECEPTACLE         |
| EXISTING RECEPTACLE         | -    | -    | -      | 20   | 3    | 0.2         | 1.5         | 4              | 20   | -     | -    | -    | EXISTING IWH                |
| EXISTING HAND DRYER         | -    | -    | -      | 20   | 5    | 1.0         | 1.5         | 6              | 20   | -     | -    | -    | EXISTING SCREW PUMP         |
| EXISTING HAND DRYER         | -    | -    | -      | 20   | 7    | -           | 1.0         | 1.0            | 8    | 20    | -    | -    | EXISTING SCREW PUMP         |
| EXISTING RESIDENCE BUILDING | 3#3  | 1#8  | 1-1/4" | 100  | 9    | 11.0        | 1.0         | 10             | 10   | -     | -    | -    | EXISTING SANITARY STEP PUMP |
| EXISTING BUILDING           | -    | -    | -      | 100  | 2    | 11          | -           | 9.6            | 1.0  | 12    | 20   | -    | EXISTING SANITARY STEP PUMP |
|                             |      |      |        | 100  | 13   | 5.0         | -           | 14             | -    | -     | -    | -    | SPACE                       |
|                             |      |      |        | 100  | 15   | -           | 5.0         | -              | 16   | -     | -    | -    | SPACE                       |
|                             |      |      |        | 100  | 17   | -           | -           | -              | 18   | -     | -    | -    | SPACE                       |
|                             |      |      |        |      |      | 19.3        | 19.7        | KVA PER PHASE  |      |       |      |      |                             |
|                             |      |      |        |      |      | 160.8       | 164.1       | AMPS PER PHASE |      |       |      |      |                             |
|                             |      |      |        |      |      | 39.0        |             | TOTAL KVA      |      |       |      |      |                             |

### SCHEDULE OF BRANCH CIRCUIT PANEL "B"

| DESCRIPTION                | WIRE | GND. | COND. | TRIP | OKT. | A PHASE KVA | C PHASE KVA | OKT.           | TRIP | COND. | GND. | WIRE | DESCRIPTION |
|----------------------------|------|------|-------|------|------|-------------|-------------|----------------|------|-------|------|------|-------------|
| LIGHTING                   | #12  | #12  | 1/2"  | 20   | 1    | 0.8         | 1.0         | 2              | 20   | 1/2"  | #12  | #12  | RECEPTACLE  |
| LIGHTING                   | #12  | #12  | 1/2"  | 20   | 3    | 0.8         | 1.5         | 4              | 20   | 1/2"  | #12  | #12  | IWH         |
| CU-1                       | 2#8  | 1#10 | 3/4"  | 45   | 5    | 0           | 1.5         | 6              | 20   | 1/2"  | #12  | #12  | IWH         |
| AHU-1                      | 2#8  | 1#10 | 3/4"  | 45   | 9    | 4.9         | 1.0         | 10             | 20   | 1/2"  | #12  | #12  | RECEPTACLE  |
| EXTERIOR LIGHTING          | #12  | #12  | 1/2"  | 20   | 13   | 0.2         | 0.8         | 14             | 20   | 1/2"  | #12  | #12  | RECEPTACLE  |
| EXTERIOR SECURITY LIGHTING | #12  | #12  | 1/2"  | 20   | 15   | 0.2         | 0.8         | 16             | 20   | 1/2"  | #12  | #12  | RECEPTACLE  |
| SPACE                      | -    | -    | -     | -    | 17   | -           | 1.0         | 18             | 20   | 1/2"  | #12  | #12  | RECEPTACLE  |
| SPACE                      | -    | -    | -     | -    | 19   | -           | 0.8         | 20             | 20   | 1/2"  | #12  | #12  | RECEPTACLE  |
| SPACE                      | -    | -    | -     | -    | 21   | -           | 1.0         | 22             | 20   | 1/2"  | #12  | #12  | RECEPTACLE  |
|                            |      |      |       |      |      | 11.0        | 9.6         | KVA PER PHASE  |      |       |      |      |             |
|                            |      |      |       |      |      | 91.6        | 80.0        | AMPS PER PHASE |      |       |      |      |             |
|                            |      |      |       |      |      | 20.6        |             | TOTAL KVA      |      |       |      |      |             |

- ### KEY NOTES
- 1-#2G GROUNDING ELECTRODE CONDUCTOR IN 1" SCHEDULE 40 PVC CONDUIT.
  - EXOTHERMIC CONNECTION. ELECTRICALLY CONTINUOUS STEEL REINFORCING BAR (20FT MIN. LENGTH) IN BOTTOM OF BUILDING FOUNDATION IN DIRECT CONTACT WITH EARTH.
  - 10 FT. LONG x 3/4" DIAMETER COPPER DRIVEN GROUND ELECTRODE.
  - EXOTHERMIC CONNECTION. (TYPICAL)
  - MAKE CONNECTION TO METALLIC COLD WATER ENTRANCE PIPE BEFORE FIRST VALVE WITH HEAVY DUTY BRONZE GROUND CLAMP.
  - PROVIDE (1) #2 BONDING JUMPER AROUND FIRST VALVE.



### ELECTRICAL SPECIFICATIONS

**PART 1 - GENERAL**

A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.

B. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF.

C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZED IN THIS PROJECT.

1. NATIONAL ELECTRICAL CODE (NFPA-70)
2. CODE FOR SAFETY TO LIFE (NFPA-101)
3. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72)
4. UNDERWRITERS' LABORATORIES (UL)
5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
7. FEDERAL SPECIFICATION (FED. SPEC.)
8. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
9. FLORIDA BUILDING CODE, FBC 2020 EDITION
10. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
11. CITY OF VERO BEACH BUILDING CODE (AMENDMENTS TO FLORIDA BUILDING CODE FBC 2020)
12. ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA)

D. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.

E. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

F. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.

G. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THERE BY.

H. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT THE CONTRACTOR IS TO FURNISH, INSTALL AND CONNECT COMPLETE.

**PART 2 - PRODUCTS**

A. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. (EXCEPT AS NOTED OTHERWISE FOR CONTROL WIRING). ALL CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER WITH "THIN-THIN" INSULATION UNLESS OTHERWISE NOTED.

B. ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT AND SHALL BE HOT-DIPPED GALVANIZED.

C. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS I. IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

D. RIGID NONMETALLIC CONDUIT SHALL BE SCHEDULE 40 PVC.

E. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.

F. PANELBOARDS:

1. CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.
2. ALL CIRCUIT BREAKERS SHALL BE BOLT ON, PLUG-IN BREAKERS ARE NOT ACCEPTABLE.
3. CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL BE LISTED AND MARKED "SWD"
4. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
5. A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES.
6. ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.
7. ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS.

G. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK. ENCLOSURES SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONS OR AS OTHERWISE NOTED.

H. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH OVERLOAD RELAYS IN EACH PHASE. WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) COLOR SHALL BE COORDINATED WITH CLIENT.

**PART 3 - EXECUTION**

A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:

1. 208/120 VOLTS, 3 PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK, 1 RED AND 1 BLUE. GROUNDED (NEUTRAL) CONDUCTOR: WHITE. GROUNDING CONDUCTORS SHALL BE GREEN.
2. 480/277 VOLT, 3-PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BROWN, 1 YELLOW, AND 1 PURPLE. GROUNDED (NEUTRAL) CONDUCTORS; GREY. GROUNDING CONDUCTORS SHALL BE GREEN.
3. BRANCH CIRCUIT WIRING (#8 AND SMALLER) SHALL BE COLOR CODED BY CONTINUOUS INSULATION COLOR AND FEEDERS AND SERVICES (#4 AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED FOR THE PURPOSE.

B. WIRING METHODS

1. ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE.
2. SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE.
3. TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. AND LOCAL CODES.

D. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.

E. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

F. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK.

G. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING DEVICES, FOR ALL OUTLETS AS INDICATED.

H. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IEEE.

I. CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.

J. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.

K. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

L. THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION.

M. ANY CONFLICTS AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.

N. PER NEC 210.8(B)(2) ALL 15- AND 20-AMPERE, 125-VOLT RECEPTACLES IN NONDWELLING-TYPE KITCHENS TO BE GFCI PROTECTED.

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

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

### ELECTRICAL SHEET INDEX

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

### ELECTRICAL LEGEND

|  |   |
|--|---|
|  | TELEPHONE OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.  |
|  | DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.   |
|  | TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNTED ABOVE COUNTER. SEE ARCHITECTURAL DRAWING FOR SPECIFIC REQUIREMENTS.   |
|  | TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.   |
|  | TELEVISION OUTLET WITH 1-1/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.  |
|  | 20 AMP SINGLE RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.  |
|  | 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.  |
|  | 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.  |
|  | 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH GROUND FAULT CIRCUIT INTERRUPTER, MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.   |
|  | 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.   |
|  | 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18" A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.   |
|  | 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18" A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.   |
|  | 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), RECESS FLOOR MOUNTED. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.   |
|  | 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), CEILING MOUNTED.   |
|  | SPECIAL-PURPOSE RECEPTACLE  |
|  | JUNCTION BOX  |
|  | SINGLE GANG JUNCTION BOX FOR POWER CONNECTION TO MODULAR FURNITURE SYSTEM INSTALL IN EXACT MANNER AS DIRECTED BY FURNITURE SUPPLIER.  |
|  | DOUBLE GANG JUNCTION BOX FOR TELEPHONE/DATA CONNECTION TO MODULAR FURNITURE SYSTEM. INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER. EXTEND (2) 3/4" EMPTY CONDUITS FROM JUNCTION BOX TO ABOVE CEILING AND TERMINATE WITH INSULATING BUSHING 6" FROM WALL. |
|  | TELE/POWER POLE FOR TELEPHONE/DATA/POWER CONNECTION TO MODULAR FURNITURE B WIRE SYSTEM (SEE DETAIL THIS SHEET). INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER, WIREMOLD CATALOG # 25DTP-4D W/IVORY FINISH.   |
|  | SPECIAL PURPOSE RECEPTACLE MOUNTED BELOW RAISE FLOOR.   |
|  | EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS.  |
|  | SINGLE POLE, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.   |
|  | 3-WAY, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.   |
|  | SINGLE POLE, 20 AMP, SWITCH WITH DIMMER. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.   |
|  | MOTOR RATED SWITCH  |
|  | VACANCY SENSOR SWITCH, WATTSTOPPER, MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.  |
|  | TWO POLE, 30 AMP SWITCH. MOUNT ADJACENT EQUIPMENT TO BE CONTROLLED.   |
|  | FACTORY MOUNTED DISCONNECT/STARTER (SEE MECHANICAL SCHEDULE)  |
|  | FUSIBLE DISCONNECT SWITCH A = POLES, B = FRAME SIZE, C = FUSE RATING  |
|  | FUSIBLE MOTOR STARTER DISCONNECT SWITCH A = POLES, B = NEMA SIZE, C = FUSE RATING   |
|  | GROUNDING ELECTRODE & CONDUCTOR SYSTEM  |
|  | TRANSFORMER   |
|  | ELECTRICAL PANELBOARD   |
|  | TELEPHONE WOOD BACKBOARD  |
|  | WEATHERPROOF  |
|  | TIME CLOCK  |
|  | RELOCATED   |
|  | EXISTING TO REMAIN  |
|  | ABOVE FINISH FLOOR  |
|  | CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.   |
|  | CEILING MOUNTED LOW VOLTAGE DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.   |
|  | CEILING MOUNTED DAY LIGHTING SENSOR. SENSOR TO CONTROL THE DIMMING OF ALL FIXTURES WITHIN 15' OF THE WINDOWS WITH IN ROOM.  |

### ELECTRICAL NOTES

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

Project: JONES' PIER CONSERVATION AREA

## HISTORIC RESIDENCE MUSEUM

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

Key Plan:

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

Architect:

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Consultant:

Drawing Title:

Reference North

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

Cert. No.: 12,456

Date Signed: **E0.1**

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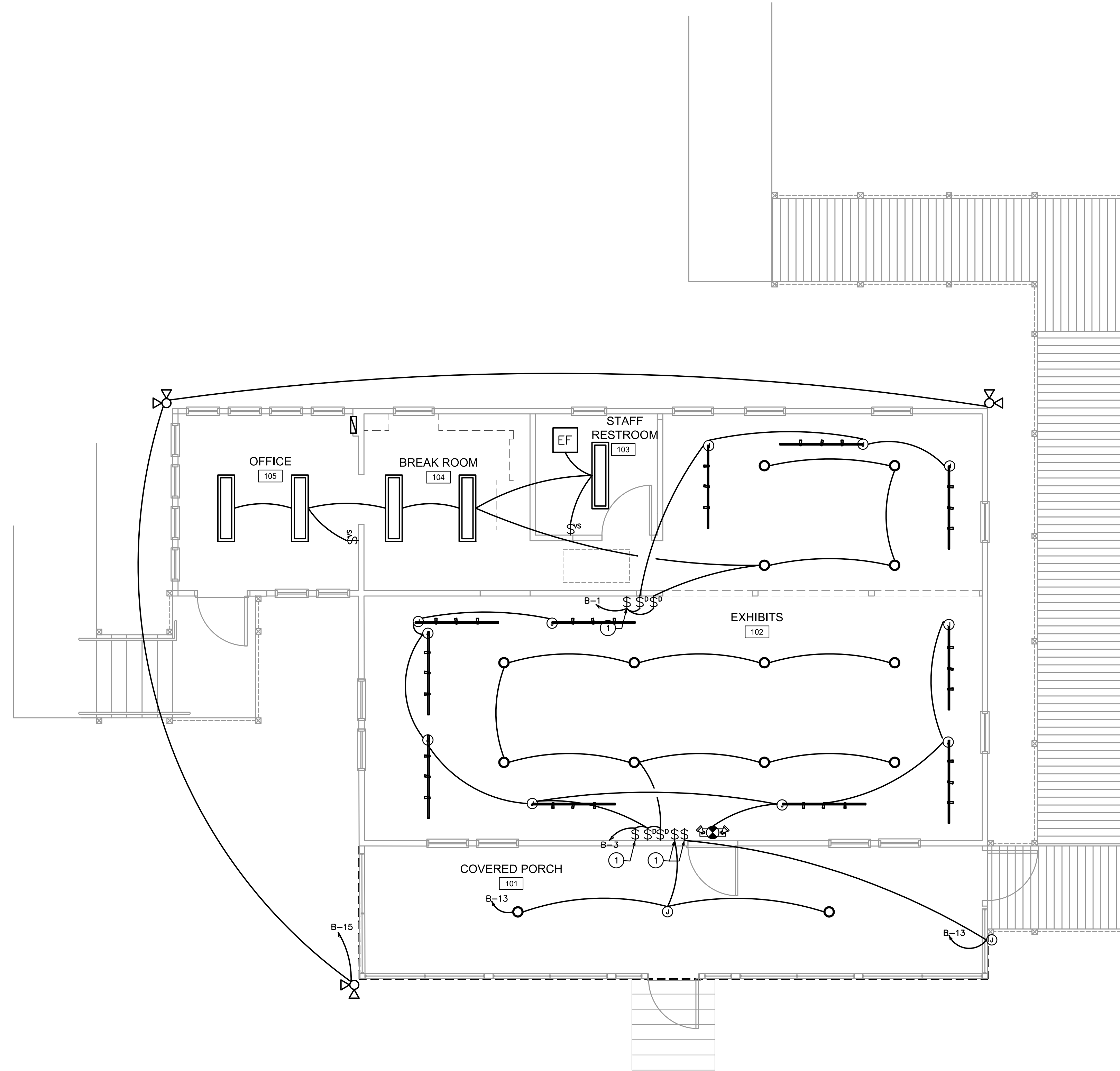


**HISTORIC  
RESIDENCE  
MUSEUM**

7770 Jungle Trail  
Vero Beach FL 32963

for  
Indian River County Parks  
Division

Key Plan:

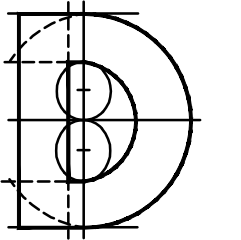


**LIGHTING PLAN**  
1/4"=1'-0" NORTH

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.**

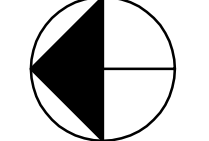
2001 9th Avenue, Suite 308  
Vero Beach, FL 32960  
Tel: 772.794.2929  
Fax: 772.562.8600  
License No. AA0002238  
www.donadio-arch.com

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<br>Fort Pierce, Florida 34950<br>Phone 772.555.1744<br>bbrown@kammconsulting.com<br>Certification of Authorization #8189 |                        |                                 |                 |
| PRINCIPAL<br>Bobby L. Brown   | Florida License #58232 | _____<br>date                   | _____<br>signed |

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

Cert. No.: 12,456

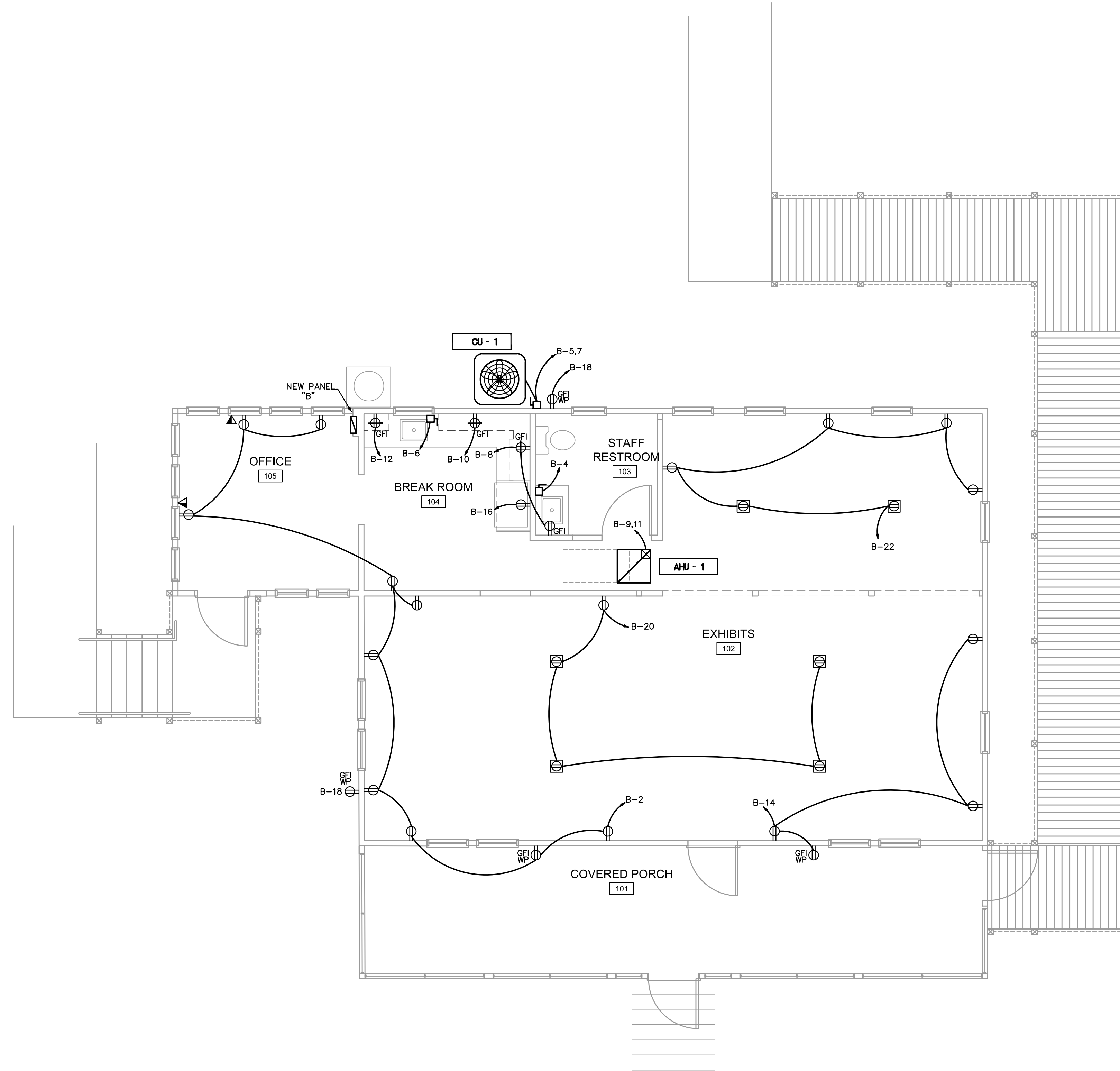
Date Signed:

**E2.1**

**HISTORIC  
RESIDENCE  
MUSEUM**

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

Key Plan:

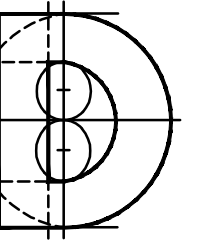


**POWER PLAN**  
1/4"=1'-0" NORTH

Issues:

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

Architect:



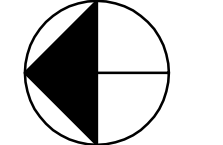
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Consultant:

Drawing Title:

Reference North



**POWER PLAN**

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

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

Cert. No.: 12,456

Date Signed:

**E3.1**

| MECHANICAL NOTES  |   |
|---|---|
| <p>1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE FLORIDA BUILDING CODE 2020 AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS: SMACNA-85, 92, 95; ASHRAE 15-01, 34-01, 62-04; NFPA 70-02, 72-02, 90A-02, 90B-02, 91-99, 96-01; ANSI Z101.1-98, Z10.3-98, Z21.8-94, Z21.83-98.</p> <p>2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.</p> <p>3. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.</p> <p>4. THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS.</p> <p>5. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.</p> <p>6. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED. ALL INSTALLATIONS SHALL COMPLY WITH FMC 2020, CH. 3, GENERAL REGULATIONS, BUILDINGS LOCATED WITHIN 3,000 FT FROM THE OCEAN SHALL UTILIZE NON-FERROUS MATERIALS FOR ALL OUTDOOR EXPOSED SUPPORTS, STANDS, FASTENERS, ETC.</p> <p>7. DUCTWORK:<br/> <b>A.</b> ALL AIR CONDITIONING DUCT WORK SHALL BE OF 1-1/2" (R-6) HEAVY DUTY FOIL REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON VAPOR BARRIER.<br/> <b>B.</b> ALL FLEX DUCT SHALL BE RATED CLASS I, UL-181 LISTED WITH METALLIZED INNER AND OUTER FOIL LINERS, MIN. R-6 WITH A MAX. TOTAL LENGTH NOT TO EXCEED 15 FT. FLEXIBLE DUCTWORK ELBOW SUPPORTS AT EACH DIFFUSER, GRILLE, AND REGISTER EQUAL TO "FLEXFLO ELBOW" AS MANUFACTURED BY "THERMAFLEX".<br/> <b>C.</b> ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. ALL OUTSIDE AIR DUCT SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATION R-6 MIN.<br/>         ALL METAL EXHAUST, MAKE-UP OR OTHERWISE DUCTS INSTALLED IN LOCATIONS WHERE DEWPOINT CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE EXTERNALLY INSULATED WITH R-6 MIN. THE CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTWORK, HANGERS, AUX. SUPPORT STEEL, ETC. ALL METAL DUCTS SHALL BE FABRICATED IN ACCORDANCE WITH LATEST EDITION OF S.M.A.C.N.A.</p> <p><b>SPECIAL NOTE:</b><br/>         SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS.<br/>         WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES.<br/>         ALL DUCTWORK SHALL BE SEALED TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR ITS PRESSURE CLASS SEALING METHODS.</p> <p>9. OUTSIDE AIR INTAKES SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL NOT LARGER THAN 1/2" MESH. O/A INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10 FT. FROM ANY CHIMNEY, VENT OUTLET OR SANITARY SEWER VENT OUTLET, UNLESS SUCH VENT IS NOT LESS THAN 24 INCHES ABOVE THE OUTSIDE AIR VENT.<br/>         OUTSIDE AIR INTAKE VENTS LOCATED ON ROOFS WILL BE PROPERLY MARKED WITH A UNIVERSAL MARKING "INTAKE", PERMANENTLY ATTACHED PER FMC 2020, SEC. 401.5</p> <p>10. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.</p> <p>11. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE AS SPECIFIED OR EQUAL TO TITUS OR METALAIR. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS TO ENSURE COMPLIANCE WITH FMC 2020, PAR. 601.5 AND PAR. 603.18 FOR BALANCED AIR FLOW.</p> <p>12. TEMPERATURE CONTROLS/THERMOSTATS:<br/> <b>A.</b> SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES, PROVIDE PROGRAMMABLE TYPE AS RECOMMENDED BY MANUFACTURER, HONEYWELL OR EQUAL. PROVIDE TAMPER PROOF COVERS.<br/> <b>B.</b> THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. INSTALL THERMOSTAT 48" TO 54" A.F.F. PER A.D.A REQUIREMENTS WHERE APPLICABLE. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL REQUIREMENTS FOR JUNCTION BOXES, CONDUITS, CONTROL WIRING, POWER, ETC. AND DEFINE RESPONSIBILITIES AND SCOPE OF WORK FOR EACH TRADE PRIOR TO ANY PURCHASING OR INSTALLATION.<br/>         WHENEVER THERE ARE MORE THAN ONE SENSOR OR THERMOSTAT, SIDE BY SIDE, THEY SHALL BE GANGED TOGETHER WITHIN THE SAME COVER PLATE WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE THIS ISSUE WITH ARCHITECT/OWNER PRIOR TO INSTALLATION AND SHALL BRING ANY DISCREPANCY TO THE ENGINEER'S ATTENTION.</p> <p>14. REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER BRAZING-JOINT TYPE FITTINGS, USE BRAZING MATERIALS FOR HIGH PRESSURE PIPING PER AWS A5.8: BCuP SERIES COPPER-PHOSPHORUS ALLOY OR BA91 SILVER ALLOY. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. SOFT COPPER TYPE "M" SHALL BE ALLOWED FOR RISER PIPING INSIDE CHASE TO LIMIT NUMBER OF JOINTS. COORDINATE WITH ENGINEER FOR PRIOR APPROVAL. ALL EXPOSED INSULATION SHALL BE PROTECTED WITH UV RESISTANT PAINT OR ALUMIN. SHIELD.</p> <p>15. ARMAFLEX INSULATION SHALL BE USED FOR SUCTION LINES (1/2" FOR ABOVE 40° F AND 1" FOR BELOW 40° F) PER FLORIDA ENERGY CODE TABLE 4-11 FOR PIPING INSULATION. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.</p> | <p>16. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS, PROVIDE RADIUS ELBOWS WHERE FEASIBLE, SQUARE ELBOWS AND TEE'S SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS. PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL.</p> <p>17. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP, REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER.</p> <p>18. PROVIDE SMOKE DETECTORS WITH SERVICE ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. PROVIDE SMOKE DETECTORS NOT VISIBLE, IN CONCEALED SPACES, PROVIDE REMOTE ANNUNCIATION/TEST STATION AS REQUIRED BY AUTHORITY HAVING JURISDICTION, COORDINATE PRIOR TO INSTALLATION. DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION, SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM.</p> <p>19. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS WITH SERVICE ACCESS DOORS IN ALL DUCTS AND OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT OUTSIDE AIR INTAKES AS REQUIRED. PROVIDE RADIATION DAMPERS IN RATED CEILINGS FOR ALL CEILING OPENINGS, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY. PROVIDE LOW-LEAKAGE CLASS DAMPERS FOR ALL SITUATIONS WHERE THE AIRFLOW CFM HAS TO BE CONTROLLED. VERIFY AND REPLACE AS REQUIRED FOR EXISTING SYSTEMS.</p> <p>20. HVAC CONTRACTOR SHALL PROVIDE A T &amp; B REPORT PER F.B.C. 2020, CH. C408.2.2 (THE T &amp; B REPORT SHALL BE INDEPENDENT FOR SYSTEMS OVER 15 TONS) FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHU'S AND FANS. THE TEST AND BALANCE REPORT SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMPERATURE (°F) FROM SUPPLY GRILLES AND EVAPORATORS.<br/>         FOR (EXISTING) SMOKE EVACUATION SYSTEMS HVAC CONTRACTOR SHALL PROVIDE A T &amp; B REPORT PRIOR TO ANY NEW WORK, PROVING THAT THE SMOKE EVACUATION SYSTEM PERFORMS PER ORIGINAL DESIGN DOCUMENTS AND IS COMPLIANT WITH LOCAL CODE REQUIREMENTS.</p> <p>21. RUN INSULATED FIRE RATED CONDENSATE DRAINS AS REQUIRED.</p> <p>22. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.</p> <p>23. MECHANICAL EQUIPMENT ON ROOF OR ELEVATED STRUCTURES SHALL COMPLY WITH FBC 2020 PAR. 306.5 IF INSTALLED HIGHER THAN 18 FEET A.F.F. MECHANICAL EQUIPMENT INSTALLED IN ATTICS SHALL MEET THE REQUIREMENTS OF FBC-ENERGY 2020 PAR. C403.2.7.6 IF THE EQUIPMENT CAN NOT BE SERVICED/REMOVED THROUGH REQUIRED OPENING. MECHANICAL EQUIPMENT SHALL BE PROTECTED WITH MECHANICAL BARRIERS IF EXPOSED TO MECH. DAMAGE. ALL EQUIPMENT SHALL BE INSTALLED ON 6" CONCRETE PAD AT GRADE LEVEL. NOTE: AIR HANDLING UNITS ARE NOT ALLOWED IN COMMERCIAL ATTICS.</p> <p><b>SPECIAL NOTE:</b><br/>         ALL WIND LOAD AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR ROOF MOUNTED EQUIPMENT AS REQUIRED BY FBC 2020, SEC. 1509, 1522 AND CHAPTER 16, SHALL BE PROVIDED BY STRUCTURAL ENGINEER/ARCHITECT.</p> <p>24. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 240-480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC.</p> <p>25. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.</p> <p>26. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT, IN ORDER TO PROVIDE A FULLY INTEGRATED MECHANICAL AND CONTROLS SYSTEMS WITH THE EXISTING ONES. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS, OR ADDITIONAL CLARIFICATION REQ'D SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO FINAL BIDDING AND WORK.</p> <p>27. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK TO DECK PARTITIONS, AIR TRANSFER DUCTS MUST BE INSTALLED. WHEN CPVC PIPING IS USED FOR FIRE SPRINKLER SYSTEMS, THE R/A GRILLES LAYOUT SHALL BE (FIELD) COORDINATED WITH SUCH PIPING SO THAT NO PORTION OF THE GRILLES WILL BE DIRECTLY BELOW THE CPVC PIPING.</p> <p>28. CONDENSATE DRAIN PIPING TO BE AS SPECIFIED PER PLUMBING PLANS, IF NOT SPECIFIED TO BE TYPE "L" COPPER OR PVC WHERE ALLOWED BY CODE WITH 1/2" ARMAFLEX INSULATION. PROVIDE APPROVED WATER LEVEL DETECTOR OR FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN THE AIR COND. UNIT, AS A SECONDARY DRAIN SYSTEM TO COMPLY WITH FMC 2020, SEC. 307 SUPPLY CONDENSATE PUMP WHERE NECESSARY AS IMPOSED BY FIELD CONDITIONS OR INSTALLATION CHANGES AND PIPE TO CONDENSATE DRAIN PER PLUMBING PLANS.</p> <p>29. MANUFACTURER'S WARRANTY: CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS ACCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND ALL SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUTDOWN WILL BE DONE DURING NON-OPERATIONAL PERIODS OR AS AGREED WITH OWNER.</p> <p>30. ON PROJECT SPECIFIED WITH EQUIPMENT UTILIZING HOT GAS REHEAT AND/OR DEHUMIDIFICATION; CONTRACTOR SHALL PROVIDE FACTORY STARTUP OF EQUIPMENT WITHIN THEIR BID, STARTUP REPORT DOCUMENT TO BE PROVIDED TO ENGINEER FOR REVIEW.</p> |

| FAN SCHEDULE  |              |           |        |          |     |           |       |            |     |        |          |              |                     |               |                 |             |
|---|--------------|-----------|--------|----------|-----|-----------|-------|------------|-----|--------|----------|--------------|---------------------|---------------|-----------------|-------------|
| SELECTION DATA  |              |           |        | FAN DATA |     |           |       | MOTOR DATA |     |        |          | GENERAL DATA |                     |               |                 |             |
| TAG   | SERVICE AREA | MANUF.(*) | MODEL  | CONFIG.  | CFM | ESP ("WG) | SONES | HP         | RPM | DRIVE  | VOLTAGE  | WEIGHT (LBS) | DIMENSIONS L"xW"xH" | OPENING L"xW" | CONTROL         | ACCESSORIES |
| EF-1  | RR           | GREENHECK | SP-B90 | CEILING  | 70  | .2        | 1.5   | 21.1 WATT  | 700 | DIRECT | 120/1/60 | 10           | 14X12X7             | *             | LIGHT INTERLOCK | *           |
| <p>(*) APPROVED EQUAL MANUFACTURER: COOK, TWIN-CITY, ACME, PENN</p> <p><b>ACCESSORIES NOTES:</b></p> <ol style="list-style-type: none"> <li>PROVIDE GRILL COLOR PER ARCHITECTURE SPECIFICATIONS.</li> <li>PROVIDE BACK DRAFT DAMPER. LOCATE BACK DRAFT DAMPER AT DISCHARGE.</li> <li>PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND INTEGRAL THERMAL OVERLOAD PROTECTION. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE.</li> <li>PROVIDE BIRD SCREEN.</li> <li>PROVIDE BALANCING DAMPER.</li> <li>SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION ISOLATORS.</li> <li>PROVIDE WEATHERHOOD DRAIN AND CORROSION PROTECTION.</li> </ol> <p><b>GENERAL FAN NOTES:</b></p> <ol style="list-style-type: none"> <li>MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED), ALL NORMAL EQUIPMENT POWER, AND EMERGENCY POWER WIRING BY ELECTRICAL CONTRACTOR.</li> <li>ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32.</li> <li>FIELD ADJUST OPENINGS WITH STRUCTURE.</li> <li>ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65 db AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS.</li> <li>COORDINATE WITH ELECTRICAL CONTRACTOR AND MANUFACTURER BEFORE BIDDING OR ORDERING ANY EQUIPMENT. CONTRACTOR TO PROVIDE NECESSARY STEPDOWN AND/OR MULTI-VOLTAGE TRANSFORMERS.</li> <li>SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION.</li> <li>ALL FANS ON ROOF SHALL BE PAINTED AS PER ARCHITECTURAL SPECIFICATIONS.</li> <li>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.</li> </ol> |              |           |        |          |     |           |       |            |     |        |          |              |                     |               |                 |             |

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

| MECHANICAL LEGEND |                                     |  |   |
|-------------------|-------------------------------------|--|---|
|                   | SUPPLY AIR CEILING DIFFUSER         |  | CEILING OR INLINE EXHAUST FAN                         |
|                   | RETURN AIR CEILING GRILLE           |  | STANDARD SINGLE DUCT VAV BOX (3'0" SERVICE CLEARANCE) |
|                   | WALL LOUVER / WALL DIFFUSER.        |  | THERMOSTAT  |
|                   | LINEAR DIFFUSER                     |  | HUMIDISTAT  |
|                   | MANUAL VOLUME CONTROL DAMPER        |  | REFRIGERANT SENSOR                                    |
|                   | MOTORIZED DAMPER                    |  | STATIC PRESSURE SENSOR                                |
|                   | FIRE DAMPER                         |  | DUCT SMOKE DETECTOR                                   |
|                   | REDUCER OR INCREASER                |  | AP - ACCESS PANEL                                     |
|                   | FLEX DUCT                           |  | AD - ACCESS DOOR                                      |
|                   | EXISTING FLEX DUCT                  |  | VCD VOLUME CONTROL DAMPER                             |
|                   | EXISTING DUCTWORK                   |  | MOD MANUALLY OPERATED DAMPER                          |
|                   | SUPPLY & OUTSIDE AIR SECTION (UP)   |  | SUPPLY AIR DIFFUSER OR GRILLE DESIGNATION             |
|                   | SUPPLY & OUTSIDE AIR SECTION (DN)   |  | RETURN/EXHAUST AIR DIFFUSER OR GRILLE DESIGNATION     |
|                   | RETURN OR EXHAUST DUCT SECTION (UP) |  | VARIABLE FREQ. DRIVE CONTROL PANEL                    |
|                   | RETURN OR EXHAUST DUCT SECTION (DN) |  | SUPPLY AIR  |
|                   | ROUND UP                            |  | RETURN UNDER  |
|                   | SHOE TAP DAMPER                     |  | DOOR UNDER CUT  |
|                   | ROOFTOP UNIT                        |  | EQUIPMENT TAG   |
|                   | SOLENOID VALVE.                     |  | OARTU- OUTSIDE AIR ROOF TOP UNIT                      |
|                   | RELOCATE                            |  | RTU- ROOF TOP UNIT                                    |
|                   |                                     |  | VAV- VARIABLE VOLUME BOX                              |
|                   |                                     |  | EF - EXHAUST FAN                                      |

NOT ALL SYMBOLS MAY APPLY TO THESE PLANS

| HVAC ABBREVIATION LEGEND |                             |       |  |
|--------------------------|-----------------------------|-------|--|
| AC                       | AIR CONDITIONING            | MCA   | MINIMUM CIRCUIT AMPS (FOR WIRE SIZING)     |
| AFF                      | ABOVE FINISH FLOOR          | MOD   | MANUALLY OPERATED DAMPER                   |
| BDD                      | BACK DRAFT DAMPER           | MOCOP | MAXIMUM OVERCURRENT PROTECTION DEVICE AMPS |
| CD                       | CONDENSATE DRAIN            | NC    | NOISE CRITERIA                             |
| COP                      | COEFFICIENT OF PERFORMANCE  | O/A   | OUTSIDE AIR                                |
| DB                       | DRY BULB                    | OBD   | OPOSITE BLADE DAMPER                       |
| DIA.                     | DIAMETER                    | PD    | PRESSURE DROP.                             |
| E                        | EXISTING TO REMAIN          | R     | EXISTING TO BE RELOCATED                   |
| EER                      | ENERGY EFFICIENCY RATIO     | R/A   | RETURN AIR                                 |
| EDH                      | ELECTRIC DUCT HEATER        | RLA   | RATED LOAD AMPS.                           |
| EF                       | EXHAUST FAN                 | SEER  | STANDARD ENERGY EFFICIENCY RATIO           |
| ESP                      | EXTERNAL STATIC PRESSURE    | TSP   | TOTAL STATIC PRESSURE                      |
| F                        | FILTER                      | VD    | VOLUME CONTROL DAMPER                      |
| FD                       | FIRE DAMPER                 | VFD   | VARIABLE FREQUENCY DRIVE                   |
| FLA                      | FULL LOAD AMPS.             | WB    | WET BULB                                   |
| FMS                      | FLOW MEASURING STATION      |       |  |
| IPLV                     | INTEGRATED PART-LOAD VALUE. |       |  |

NOTE: NOT ALL SYMBOLS MAY APPLY TO THESE PLAN.

Project: JONES' PIER CONSERVATION AREA

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

Key Plan:

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

Architect:

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

Drawing Title:



**MECHANICAL NOTES**

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

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

Cert. No.: 12,456

Date Signed:

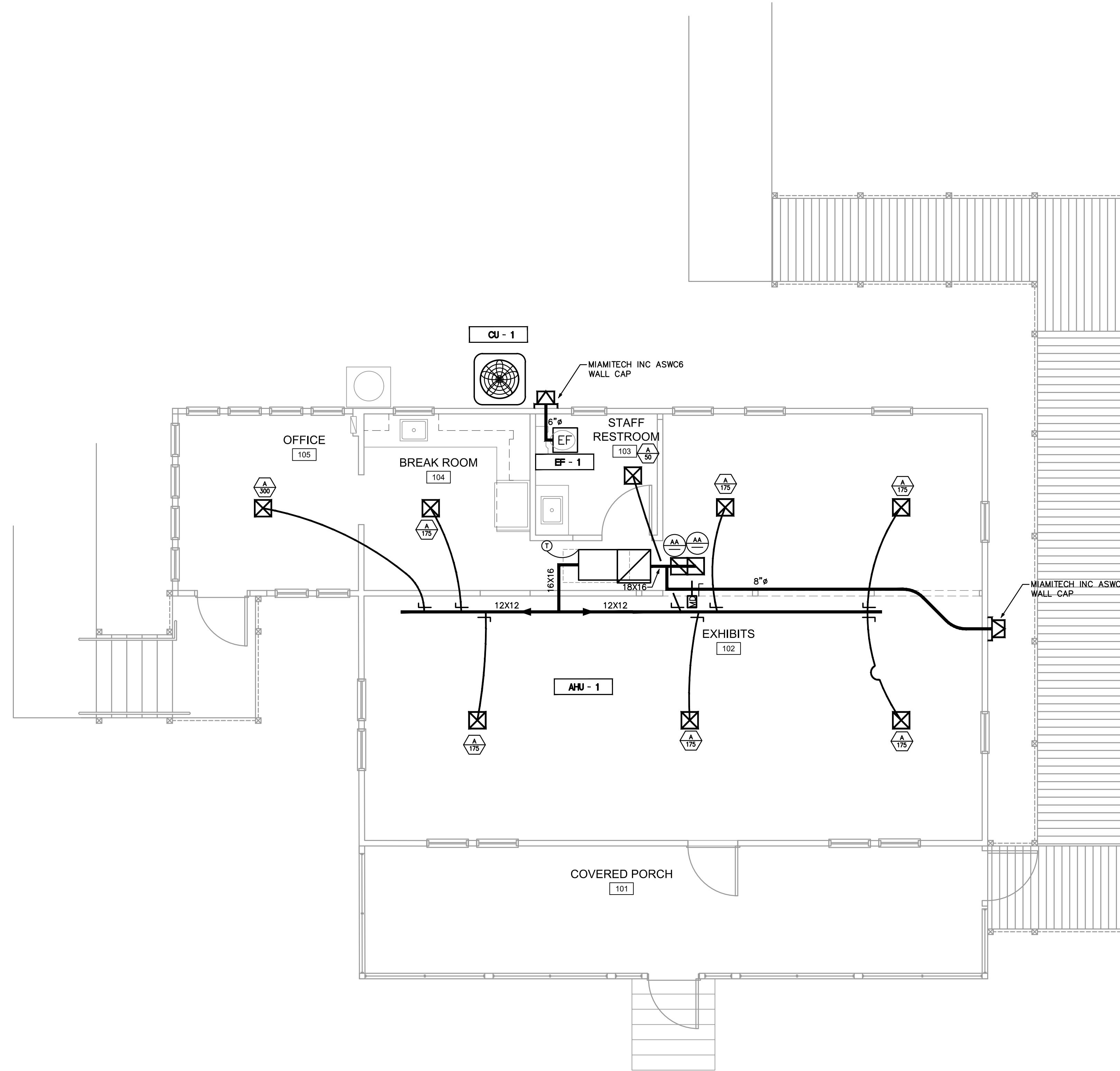
**M0.1**

**HISTORIC  
RESIDENCE  
MUSEUM**

7770 Jungle Trail  
Vero Beach FL 32963

for  
Indian River County Parks  
Division

Key Plan:

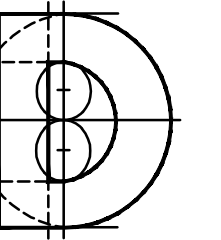


**MECHANICAL PLAN**  
1/4"=1'-0" NORTH

Issues:

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

Architect:



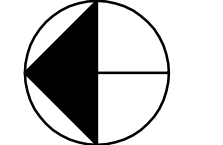
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Consultant:

Drawing Title:

Reference North



**MECHANICAL PLAN**

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

|              |            |
|--------------|------------|
| Dwg. File:   | JLH        |
| XREF File:   | TD         |
| Project No.: | 2018-23.03 |
| Plot File:   |            |
| 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 <sup>2</sup> | TOTAL NO. OF PEOPLE | PEOPLE OUTDOOR AIR RATE (RP) CFM/PERSON | DEFAULT VALUES OCC. DENS. P/1000FT <sup>2</sup> 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 |
| <b>TOTAL</b>            | <b>1072.0</b>              | <b>-</b>                                       | <b>-</b>            | <b>-</b>                                | <b>-</b>  | <b>-</b>                                | <b>-</b>                             | <b>195.0</b>           | <b>210.0</b>           | <b>-</b>  |

- 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**

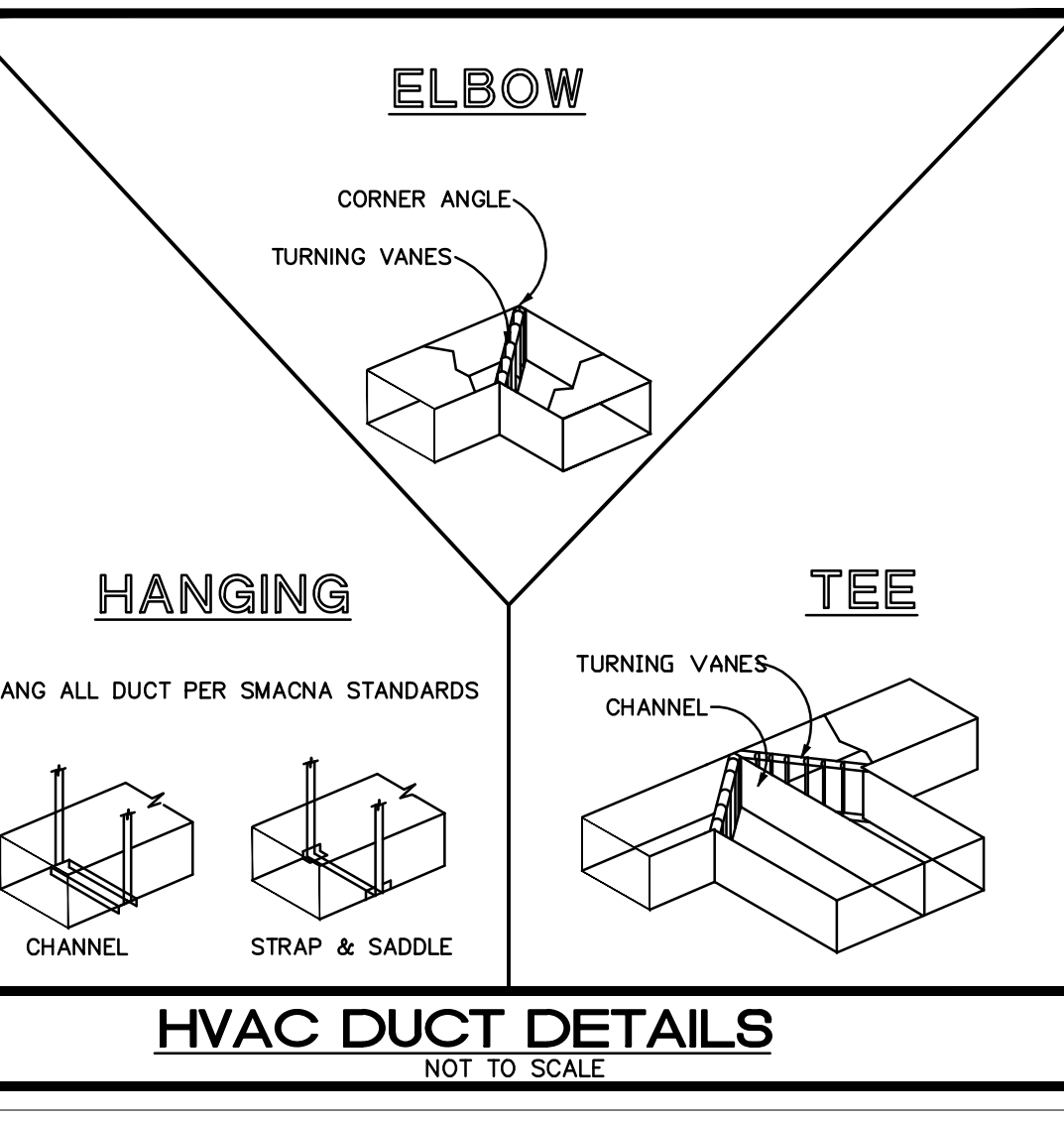
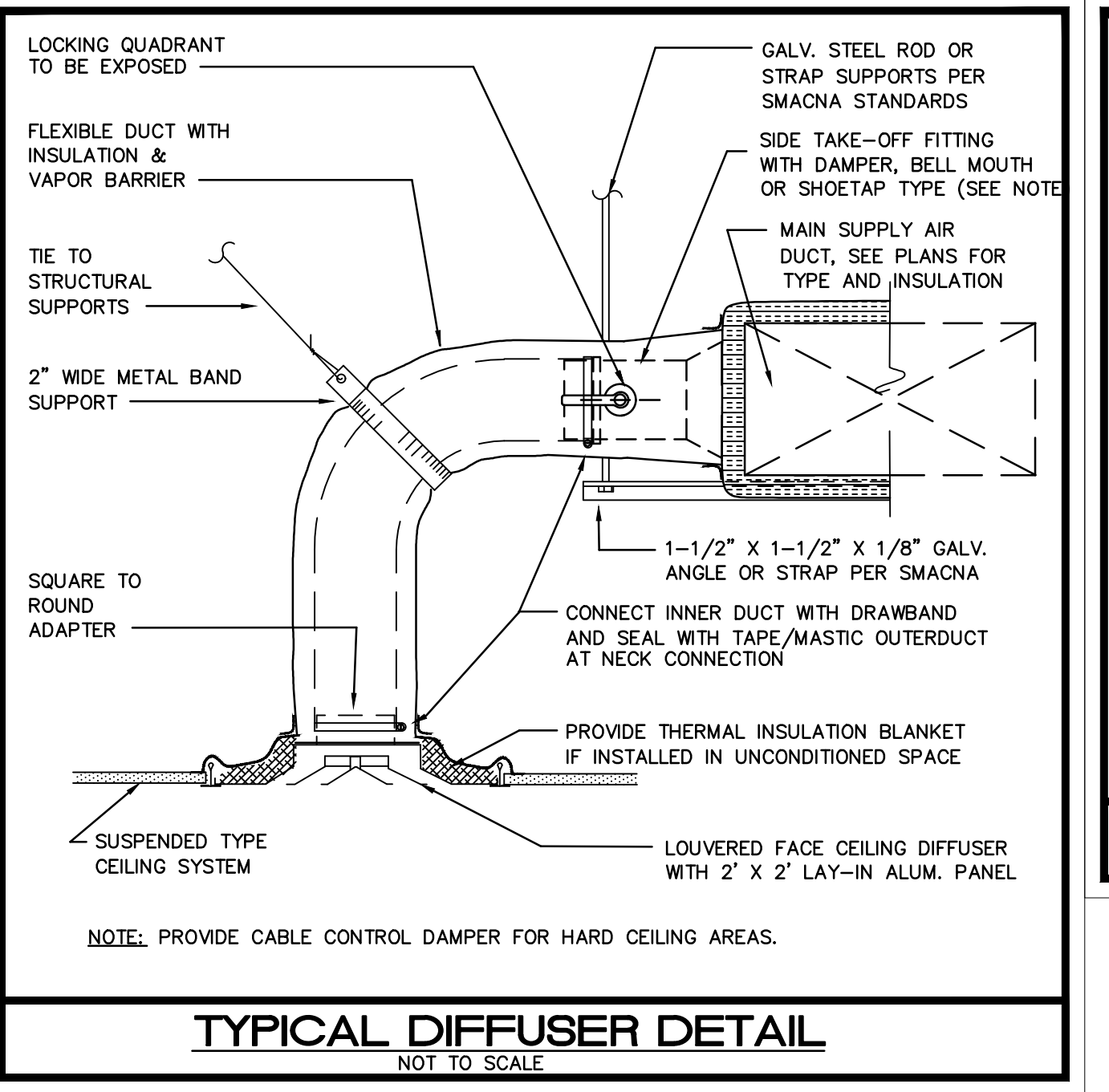
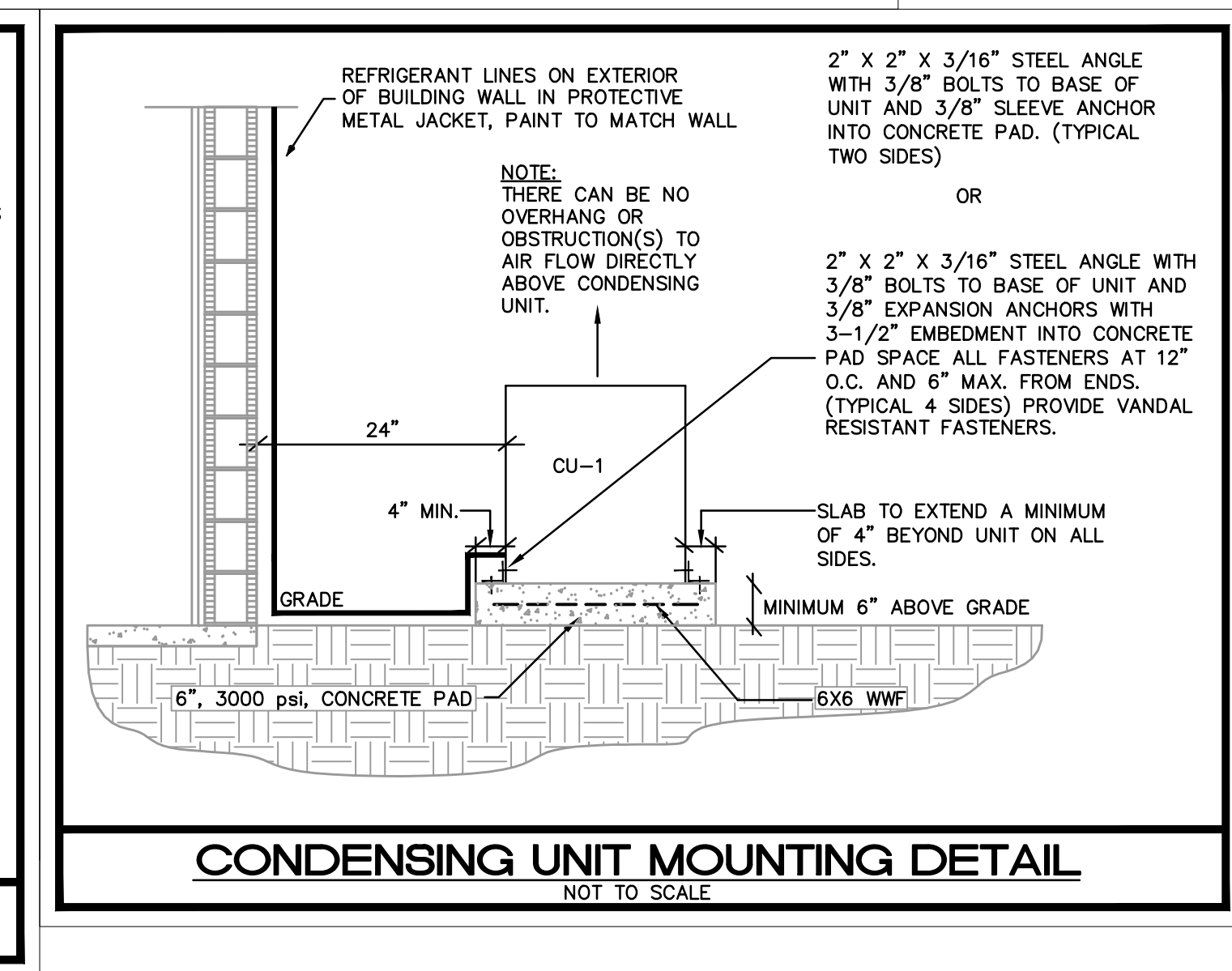
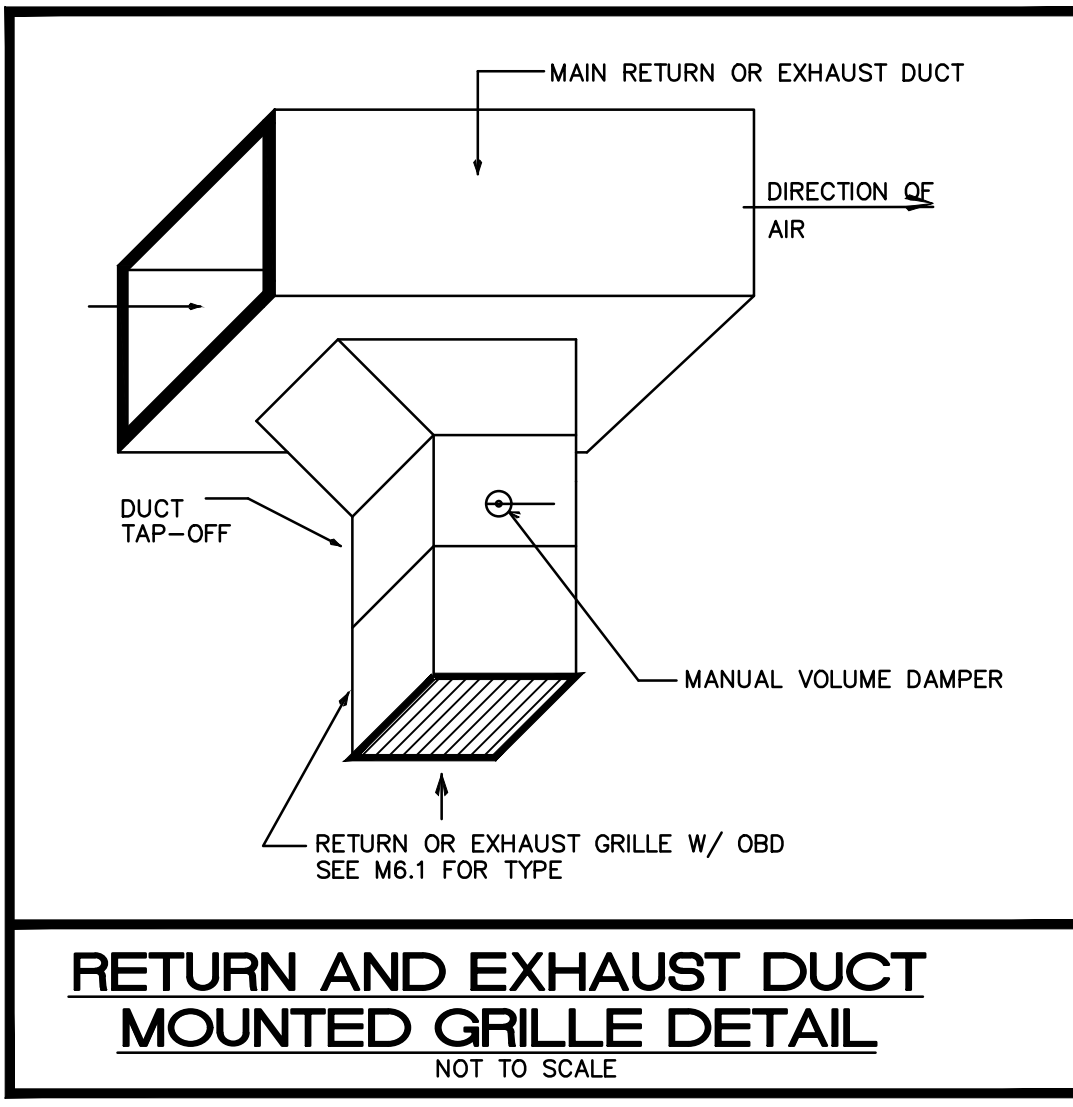
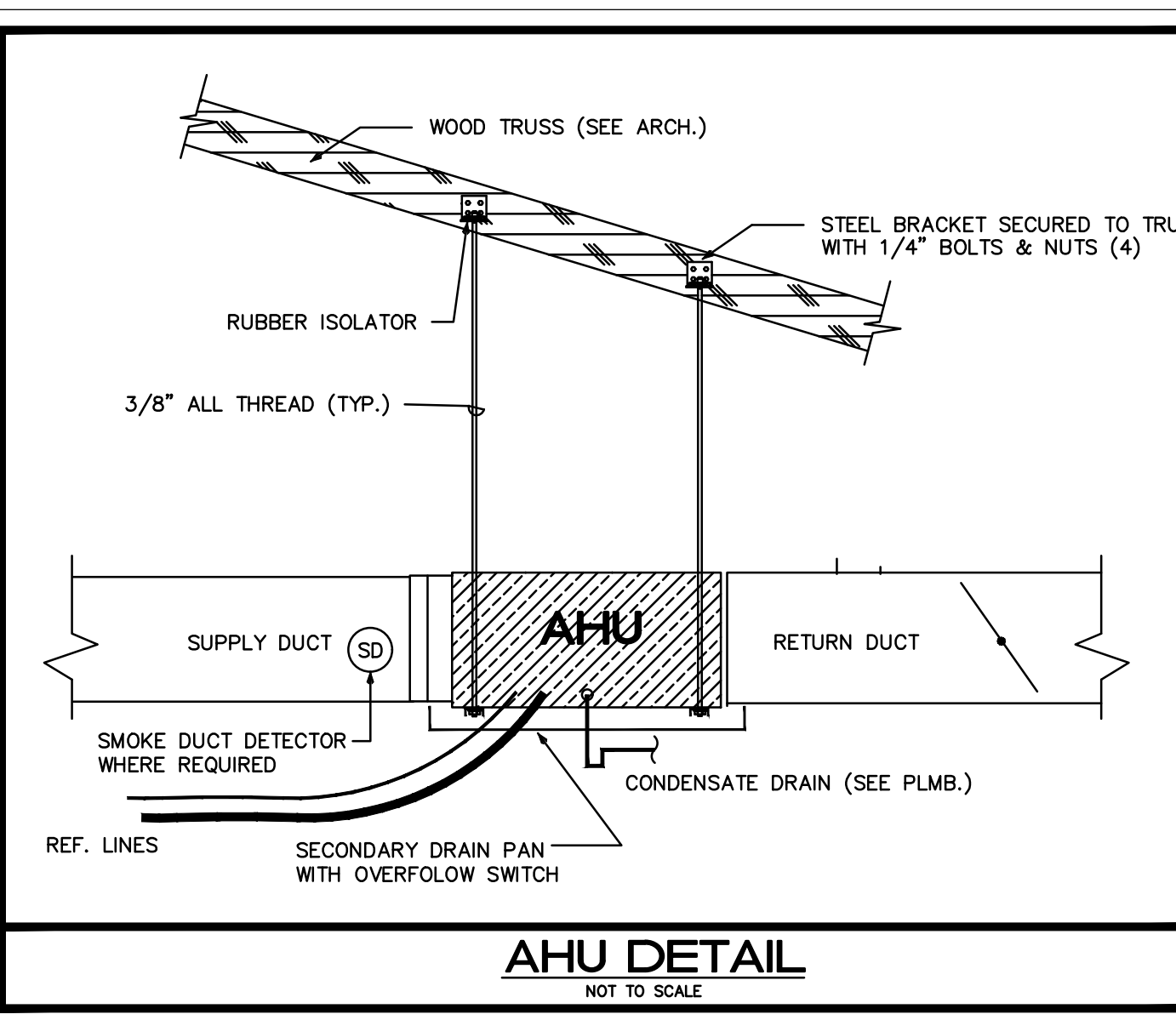
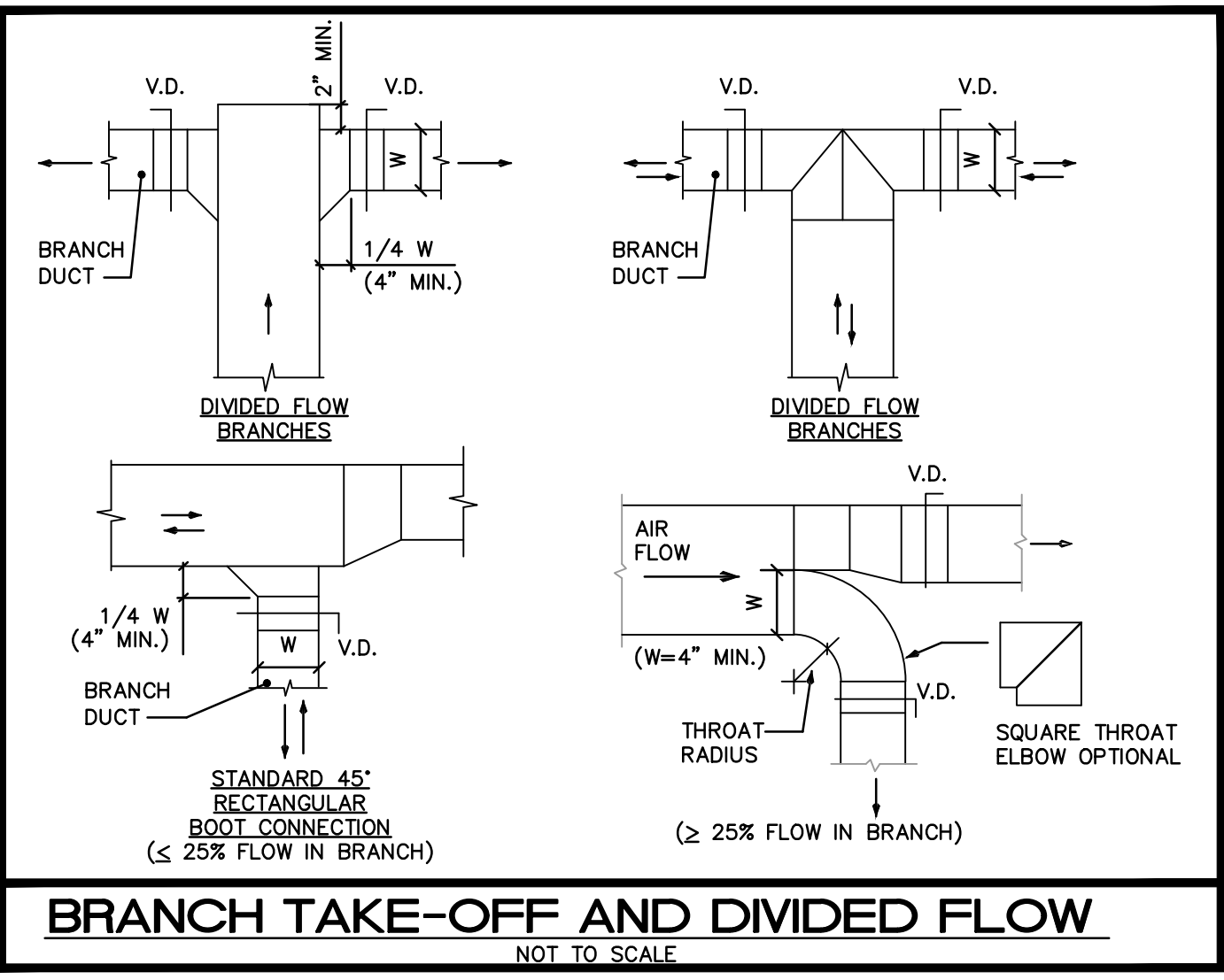
| TAG | MANUF. & MODEL | FACE SIZE | NECK SIZE | MATERIAL | FRAME   | FINISH    | DAMPER | THROW | NC      | CFM RANGE | NOTES |
|-----|----------------|-----------|-----------|----------|---------|-----------|--------|-------|---------|-----------|-------|
| AA  | TITUS/PAR-AA   | 12X12     | SEE SCH.  | 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 <sub>HW</sub> (")<br>W/ HEAT | WEIGHT(LB)<br>W/ HEAT | L <sub>HW</sub> (")<br>W/O HEAT | WEIGHT(LB)<br>W/O HEAT | NOTES |
| VAV-1          | TRANE VCEF        | SGL. DUCT        | 10         | 350      | 1150        | *          | 4.0       | 1     | 277/1/60 | 44X14X20                       | 81                    | -                               | -                      | *     |
| VAV-2          | TRANE VCEF        | SGL. DUCT        | 10         | 350      | 900         | *          | 4.0       | 1     | 277/1/60 | 44X14X20                       | 81                    | -                               | -                      | *     |
| VAV-3          | TRANE VCEF        | SGL. 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 MAX. 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



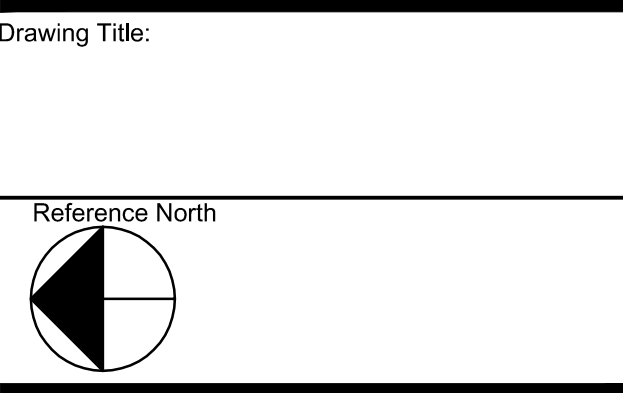
**Issues:**

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

Architect:

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Consultant:



**MECHANICAL SCHEDULES**

ISSUED FOR REVIEW  
NOT FOR PRICING OR CONSTRUCTION

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

**KAMM Consulting**  
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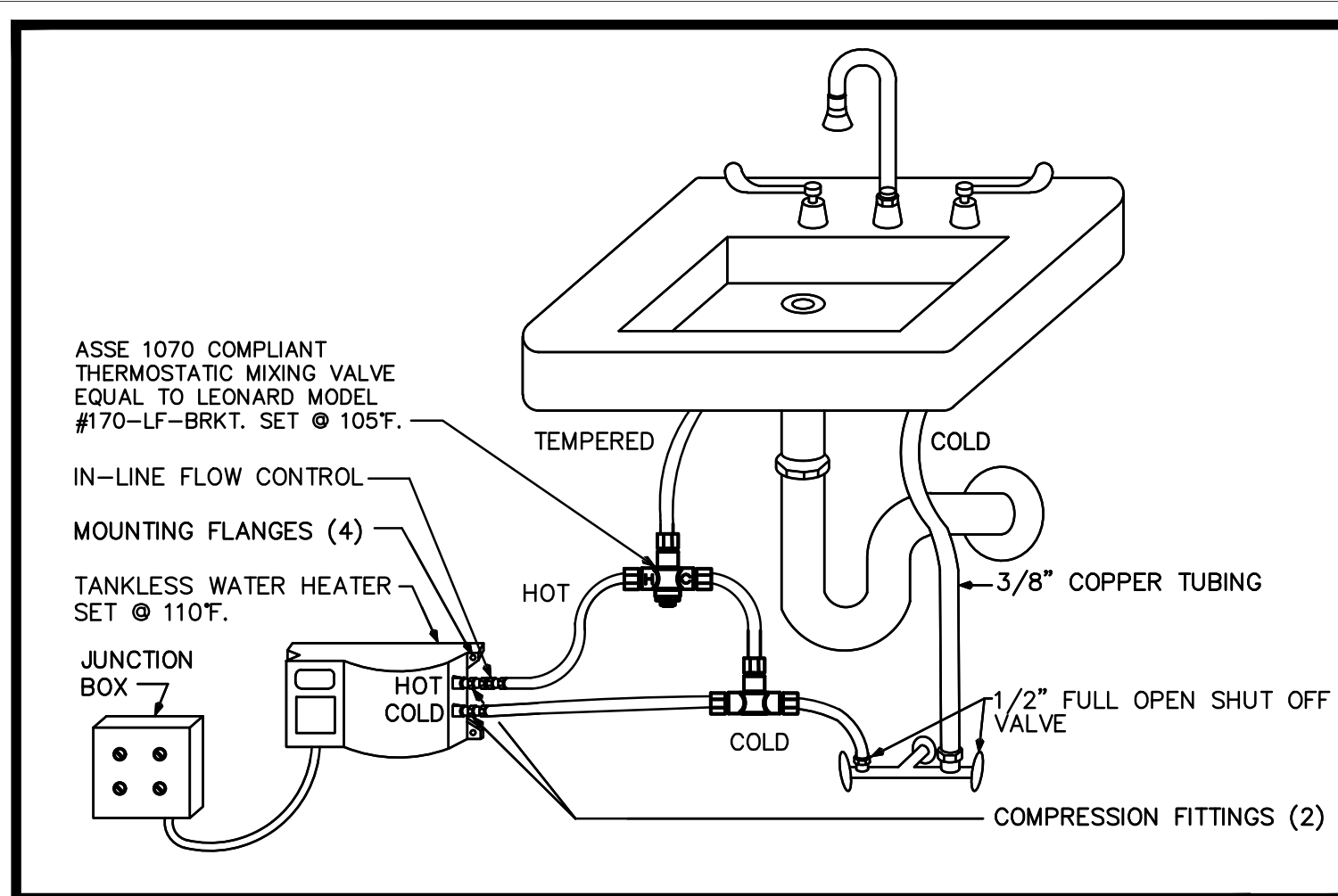
PRINCIPAL: Ready L. Brown, Florida License #58232  
DATE: duc  
SIGNED: signed

Dm: J.L.H.  
Dwg. File: J.L.H.  
Chd: XREF File: TD  
Project No.: 2018-23.03  
Plot File: 2018-23.03  
Sheet No.: 12 of 12

Cert. No.: 12,456

Date Signed: **M6.1**

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**INSTANTANEOUS WATER HEATER CONNECTIONS FOR PUBLIC LAVATORIES**  
NOT TO SCALE

**CONDENSATE DRAIN PIPE SIZING**

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

**KEY NOTES**

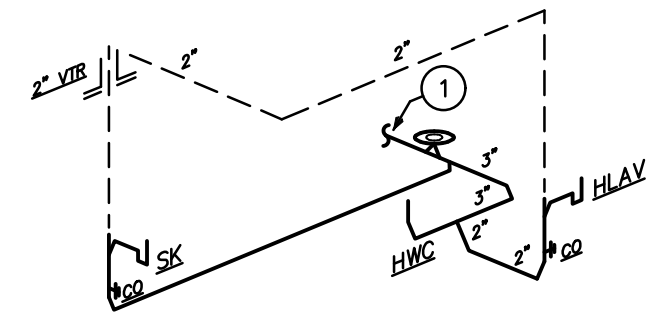
- 1) TIE NEW SANITARY LINE TO EXISTING IN AREA. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.
- 2) TIE NEW DOMESTIC LINE TO EXISTING IN AREA. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.

**PLUMBING FIXTURE SCHEDULE**

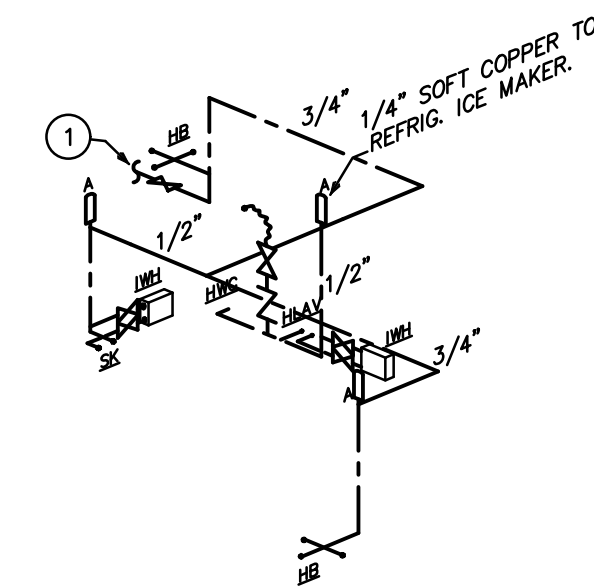
|      |   |
|------|---|
| HLAV | HANDICAP LAVATORY, AMERICAN STANDARD, LUCERNE WALL HUNG LAVATORY MODEL #0356.028. WHITE, WITH T&S BRASS FAUCET BS-2701-VF05. CONTRACTOR TO SUPPLY CONCEALED ARM SUPPORT CARRIER FOR MOUNTING OF LAV. WADE MODEL # 520-M36. SUPPLY PLUMBEXXER MODEL #4533 INSULATION KIT. MUST MEET A.D.A. CODE. |
| HWC  | HANDICAP WATER CLOSET, AMERICAN STANDARD #215AA.004 FLOOR MOUNTED, WHITE, CENTOCO SEAT #500CC, OPEN FRONT WITH COVER. A.D.A EL 1.28 ELONGATED 18" HIGH OR EQUAL.  |
| SK   | SINGLE STAINLESS STEEL SINK, 25 X 22 DAYTON MODEL #K-12522 WITH A T&S BRASS FAUCET MODEL #8-0199-01-N05 WITH A 5-11/16" SPREAD GOOSENECK WITH 4" WRIST BLADE FAUCET HANDLES.  |
| IWH  | TANKLESS WATER HEATER SHALL BE CHROMOMITE MODEL # SR-20L 120V, 1 PHASE, 1.8 KW.   |

**GENERAL NOTES:**

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



**SANITARY ISOMETRIC**  
N.T.S.



**DOM. WATER ISOMETRIC**  
N.T.S.

**TYPICAL PLUMBING FIXTURE CONNECTION SCHEDULE**

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

NOTE: PLUMBING FIXTURE CONNECTION SCHEDULE IS SHOWN FOR CONVENIENCE ONLY. PLUMBING CONTRACTOR TO CONFIRM FINAL PLUMBING FIXTURE CONNECTION SIZES WITH PLUMBING FIXTURE MANUFACTURER'S REQUIREMENTS. ALL FIXTURES SHALL COMPLY WITH REQUIREMENTS OF LOCAL WATER-USE EFFICIENCY ORDINANCES.

**PLUMBING NOTES**

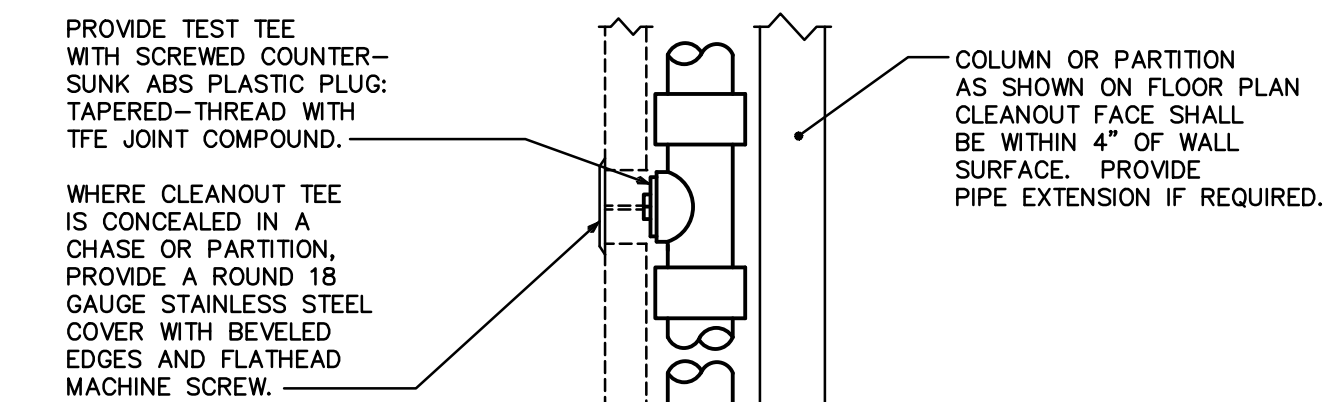
1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SCOPE OF WORK. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020) - PLUMBING, APPLICABLE LOCAL CODES, RULES, AND ORDINANCES.
2. PLUMBING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

**PLUMBING SHEET INDEX**

| SHEET# | DESCRIPTION                          |
|--------|--------------------------------------|
| P0.1   | PLUMBING NOTES, LEGENDS, AND DETAILS |
| P2.1   | SANITARY PLAN                        |
| P3.1   | DOMESTIC WATER PLAN                  |

**PLUMBING LEGEND**

|                                 |                                  |       |                                 |
|---------------------------------|----------------------------------|-------|---------------------------------|
| CO                              | CLEAN OUT                        | —S—S  | SANITARY SEWER PIPING           |
| S.O.V.                          | SHUT-OFF VALVE                   | —D—D  | VENT PIPING                     |
| COTC                            | CLEAN OUT TO GRADE               | —C—C  | DOMESTIC COLD WATER PIPING      |
| FS                              | FLOOR SINK                       | —H—H  | HOT WATER PIPING (110°)         |
| CW                              | DOMESTIC COLD WATER              | —H—H  | HOT WATER PIPING (140°)         |
| HW                              | DOMESTIC HOT WATER               | —R—R  | HOT WATER RECIRCULATING PIPING  |
| HWR                             | DOMESTIC HOT WATER RECIRCULATING | —CD—  | CONDENSATE PIPING               |
| HB                              | HOSE BIBB                        | —CA—  | COMPRESSED AIR PIPING           |
| VTR                             | VENT THRU ROOF                   | —T&P— | TEMPERATURE AND PRESSURE RELIEF |
| GATE VALVE                      |                                  | —SD—  | STORM DRAIN PIPING              |
| GLOBE VALVE                     |                                  | —G—   | GAS PIPING                      |
| CHECK VALVE                     |                                  | —R—R  | PIPE RISE UP                    |
| GAS SOLENOID VALVE              |                                  | —D—D  | PIPE DOWN OR DROP               |
| GAS COCK                        |                                  | —     | CAPPED END OF PIPE              |
| WATER HAMMER ARRESTER (PDI No.) |                                  | —●—   | POINT OF CONNECTION             |
| FLOOR DRAIN                     |                                  | —L—   | P-TRAP                          |



NOTE: PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOR RIM WITHIN 4' OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

**WALL CLEANOUT DETAIL**  
NOT TO SCALE

**SHOCK ARRESTOR SCHEDULE**

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

SHIUX CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.

**SLOPE OF HORIZ. DRAINAGE PIPE**

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

TABLE 704.1 OF THE FLORIDA PLUMBING CODE 2020

**PLUMBING NOTES**

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' duc  
signed

Project: JONES' PIER  
CONSERVATION AREA

**HISTORIC RESIDENCE MUSEUM**

7770 Jungle Trail  
Vero Beach FL 32963

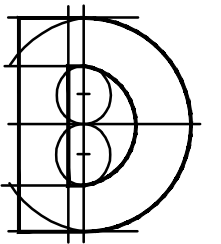
for  
Indian River County Parks  
Division

Key Plan:

Issues:

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

Architect:



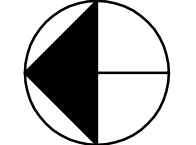
**DONADIO & Associates, Architects P.A.**

2001 9th Avenue, Suite 308  
Vero Beach, FL 32960  
Tel: 772.794.2929  
Fax: 772.562.8000  
License No. AA0002238  
www.donadio-arch.com

Consultant:

Drawing Title:

Reference North



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

Cert. No.: 12,456

Date Signed:

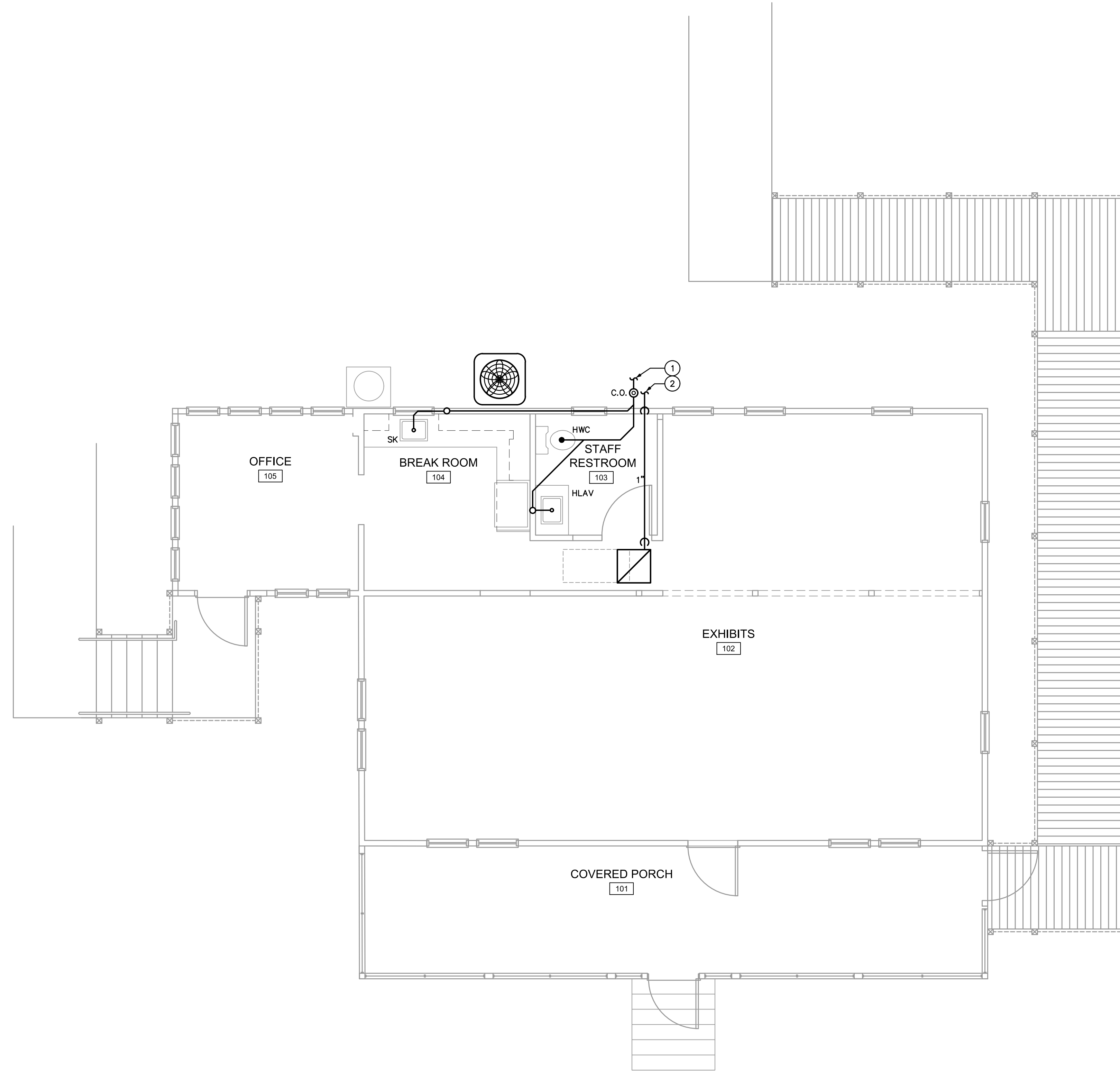
**P0.1**

**HISTORIC  
RESIDENCE  
MUSEUM**

7770 Jungle Trail  
Vero Beach FL 32963

for  
Indian River County Parks  
Division

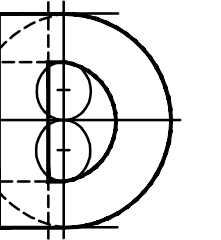
Key Plan:



Issues:

| No.: | Date:    | Description:    |
|------|----------|-----------------|
| A.   | 05/20/21 | GRANT SUBMITTAL |
| B.   | 07/23/21 | COORDINATION    |
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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.

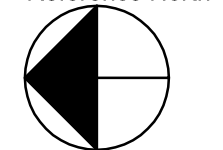
**SANITARY PLAN**   
1/4"=1'-0" NORTH

**SANITARY PLAN**

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

Drawing Title:

Reference North



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

Cert. No.: 12,456

Date Signed:

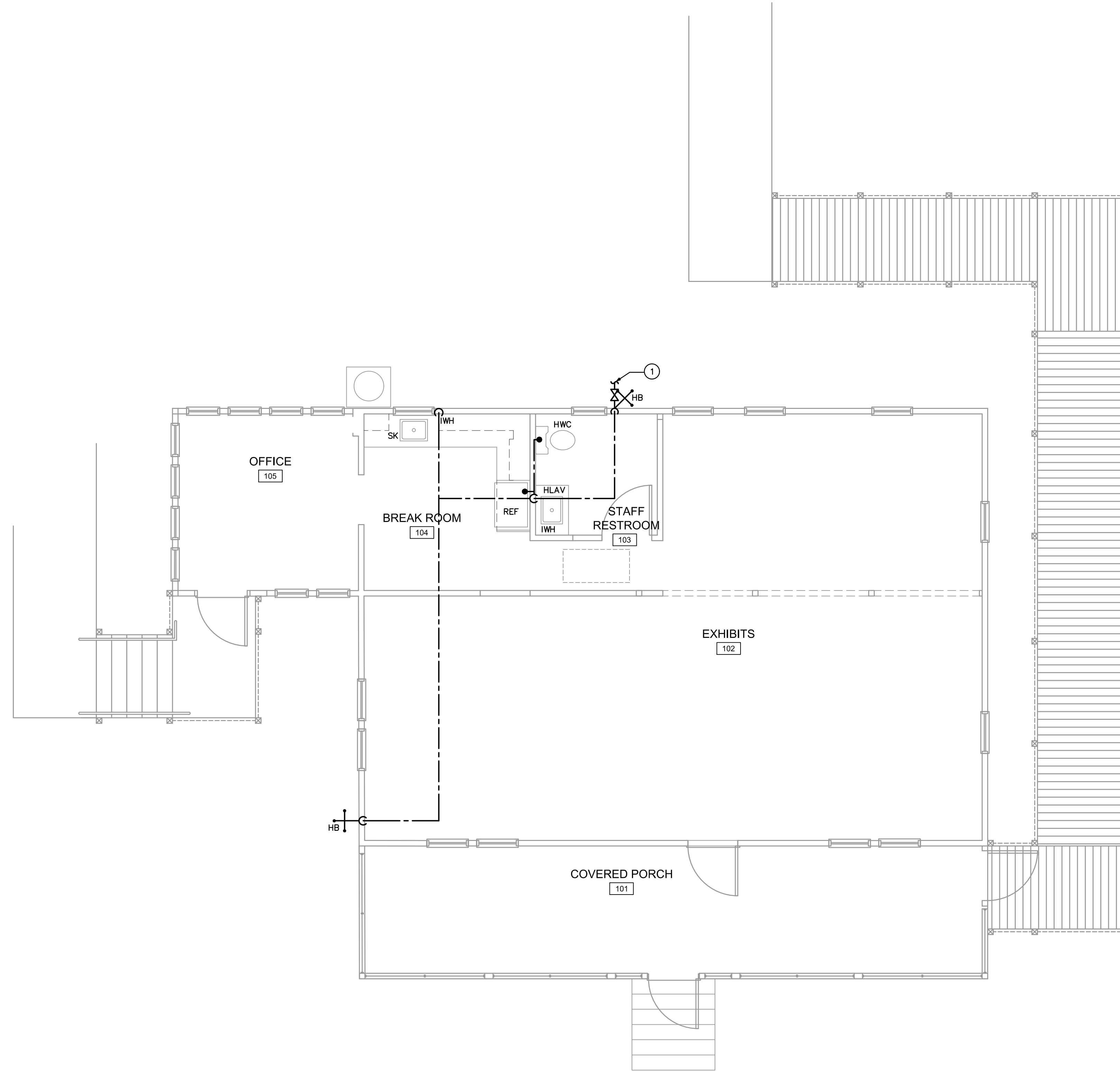
**P2.1**

**HISTORIC  
RESIDENCE  
MUSEUM**

7770 Jungle Trail  
Vero Beach FL 32963

for  
Indian River County Parks  
Division

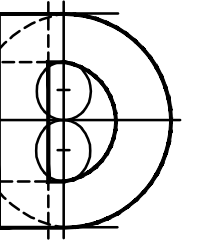
Key Plan:



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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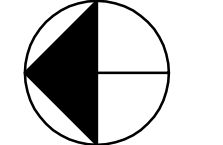
Consultant:

**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<br>Fort Pierce, Florida 34950<br>Phone 772.555.1744<br>bbrown@kammconsulting.com<br>Certification of Authorization #8189 |  | Dm: _____<br>J.L.H.<br>Chd: _____<br>TD<br>Project No.: 2018-23.03<br>Sheet No.: _____ |  |
| PRINCIPAL<br>Brady L. Brown Florida License #58232  |  | Date Signed: _____<br>signed   |  |

Cert. No.: 12,456

Date Signed:

**P3.1**

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



# ATTACHMENT #4 – Aerial Views of Jones' Pier Conservation Area





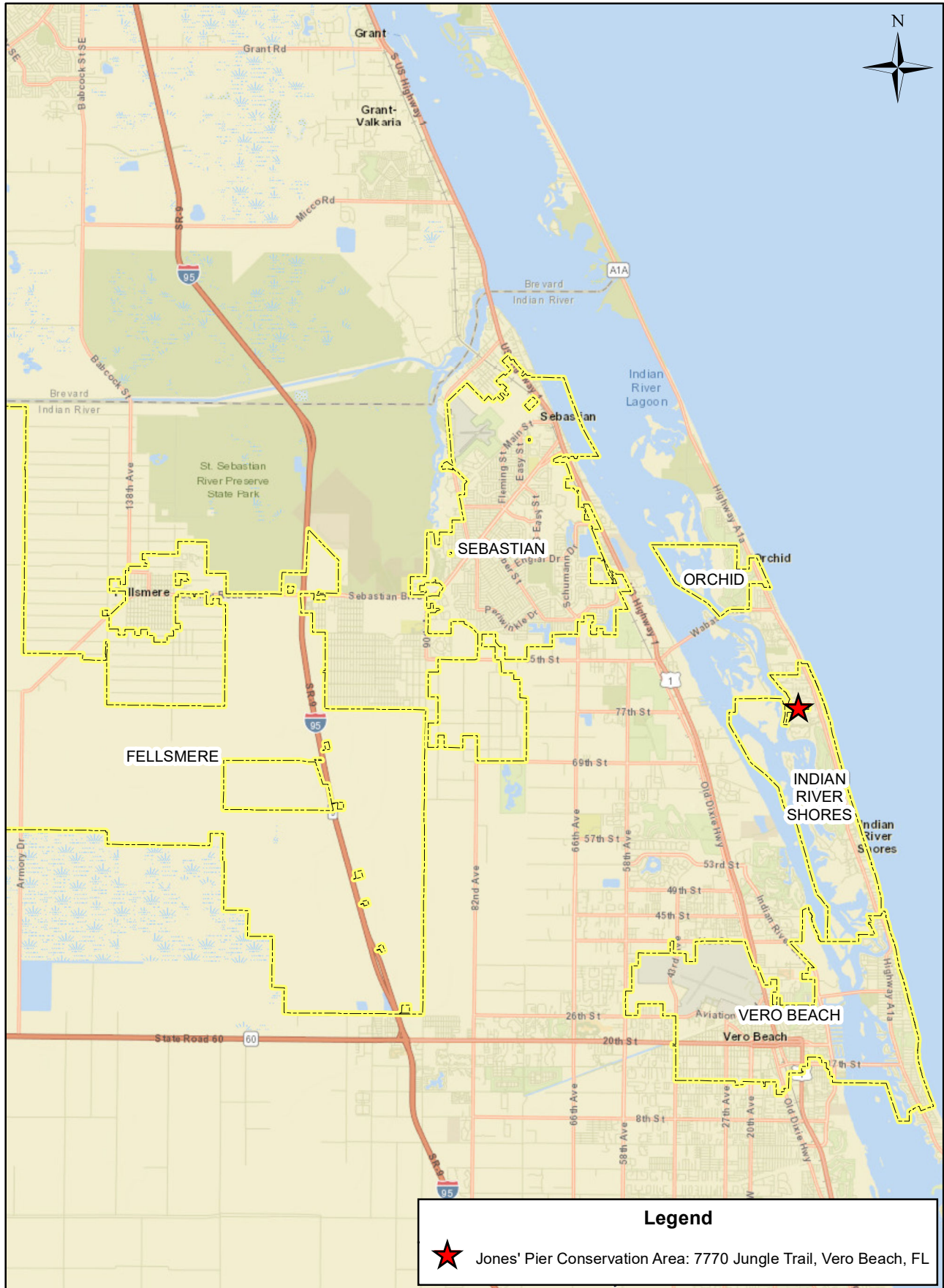






# Figure 1

## Jones' Pier Conservation Area Location Map







**7770 Jungle Trail**  
**Vero Beach, FL 32963**  
**Open Daily 7:30 am to Dusk**



7770 Jungle Trail  
 Vero Beach, FL 32963  
 Open Daily Sunrise to Sunset

# Explore

## JONES' PIER CONSERVATION AREA

For more information for volunteer opportunities:  
 Web address: [www.ircgov.com/conservation](http://www.ircgov.com/conservation)  
 Indian River Co. Conservation Lands Program  
 Phone: 777-226-1781 • email: [conservation@ircgov.com](mailto:conservation@ircgov.com).



Jones' Pier Project Partners



Access all of Indian River County's many trails on line via the Outer Spatial App

## WELCOME TO THE JONES' PIER CONSERVATION AREA



### Planning & Design

The location of this conservation area along the environmentally sensitive Lagoon was influential in the design of site amenities. Hurricane Matthew (2016) caused extensive damage along Jungle Trail. The aftermath of the storm revealed flooded structures on the Jones' Pier site. The design of the site was adjusted to address both future storm events, as well as increased water levels throughout the IRL. The resulting resilient design included elevating the site (where feasible), as well as the historic bungalow. The overall resiliency of the site also was augmented by creation and enhancement of natural areas that are adaptable to changing environments.

Water quality has been an on-going challenge facing the communities along the Indian River Lagoon. Many factors can contribute to reduced water quality – the design of the Jones' Pier project incorporated improvements such as creating wetlands for filtration of Lagoon waters, and providing additional pre-treatment of stormwater flow from the site into the Lagoon .

## WHAT YOU SHOULD KNOW:

### Project Partnerships

Indian River County received generous grant funding towards the design and construction of the Jones' Pier project.

The [Florida Inland Navigation District \(FIND\)](#) provides grants towards IRL waterway improvements. FIND grants were received for the construction of the parking area, boardwalks, restroom, pavilion, educational signage, and the displays for the Interpretive Center.

The [Indian River Lagoon National Estuary Program \(IRLNEP\)](#) provides grants for IRL research, and for enhancement of habitats associated with the IRL. IRLNEP funding supported the construction of the 4-acre saltmarsh, as well as for the construction of the cottage to a student/volunteer center.

The [State of Florida, Department of Historical Resources \(DHR\)](#) provides funding towards the preservation of historical resources in Florida. The structures on the Jones' Pier site are considered "Contributing Structures" to Jungle Trail (NRHP). The replica of the fruit stand was funded, in part, by the DHR. In addition, the layout and design features of the Interpretive Center were funded by DHR.

The [Florida Department of Environmental Protection \(FDEP\)](#) provided funding towards the acquisition of the site through Preservation 2000 Program. In addition, the project received an FDEP Coastal Partner Initiative grant towards construction of the 4-acre saltmarsh.

The [Florida Fish and Wildlife Conservation Commission \(FWC\)](#) is the State agency responsible for protection of imperiled species and wildlife management areas in Florida. FWC provided funding for the construction of the Jones' Pier Living Shoreline project.

Jones' Pier Conservation Area is located at 7770 Jungle Trail, approximately 2.3 miles south of the intersection of Jungle Trail and SR 510, in Vero Beach, Florida. This 16.5-acre property was acquired by Indian River County in 2008, with funding assistance from the Florida Communities Trust Preservation 2000 Program.

### Location

Indian River County was sparsely populated in the late 19th century. Much of the population settled along the coast where abundant resources from the Indian River Lagoon (IRL) were available. The barrier island, officially known as "Orchid Island," was accessible only by boat.

### History

Developed in the 1920's and 1930's, Jungle Trail began as a pathway between homes along the eastern shore of the IRL. As the Trail became more accessible, commerce along the barrier island thrived. Jungle Trail became a popular tourist route in the 1940's, and was a key link between Indian River Citrus and mid-20th century tourism in Florida. Jungle Trail is listed on the National Register of Historic Places (NRHP 2003).

The Jones family settled on a 160-acre tract along Jungle Trail in 1889. The family farmed citrus on the property long before there was a bridge across the Indian River Lagoon (IRL). The construction of the historic pier on the property became one of the earliest maritime commerce enterprises in the County.

In the late 1920's Mr. Timothy Milton Jones constructed a fruit stand along Jungle Trail to sell produce to tourists. His son, Richard Jones, carried on this tradition, and was known for engaging passers-by with fascinating stories of early times along the Trail.



