

# **Staff Report**

#### **City Commission Regular Meeting**



June 26, 2025

To: City Commission

From: Dale Martin, City Manager

Meeting Date: June 26, 2025

**Item Name:** Resolution 2025-54. A Resolution of the City Commission of the City of

Flagler Beach, Florida, Approving the Beachwalk Phase 1 and 2 30%

Design Elements; Providing for Conflict and an Effective Date.

## Background:

The City applied for and secured a grant (approximately \$750,000) from the Flagler County Tourist Development Council in 2024 for the Beachwalk project. The Beachwalk is intended to enhance the beachfront area south of the Pier. The project proposed to be constructed in three phases: 1. structure renovations under the 'A'-frame (restrooms, radio station, commercial space, storage); 2. a large open-air deck (Promenade), measuring approximately 4,000 square feet in area; 3. renovations to the boardwalk, from approximately S. 4th Street to S. 7th Street. The project, although related to the historic Pier, is a separate project from the Pier demolition/reconstruction.

Mr. Gabe Perdomo (Moffatt & Nichol) will present the 30% design element of Phases 1 (structure) and 2 (Promenade) to the City Commission.

#### **Fiscal Impact:**

The estimated cost of Beachwalk Phases 1 & 2 is approximately \$2.6 million. Funding for the construction will be included in the proposed FY 2025/2026 budget (in the Pier Fund).

#### Staff Recommendation:

Staff recommends approval of Resolution 2025-54.

#### **Attachments:**

- 1. 2025-05-19 19073904-FB Beachwalk 30% Drawings
- 2. Flagler Beach Beachwalk Phase I and II- 30% OPCC
- 3. City of Flagler Beach Technical Specifications Outline- 30%
- 4. 2025-54

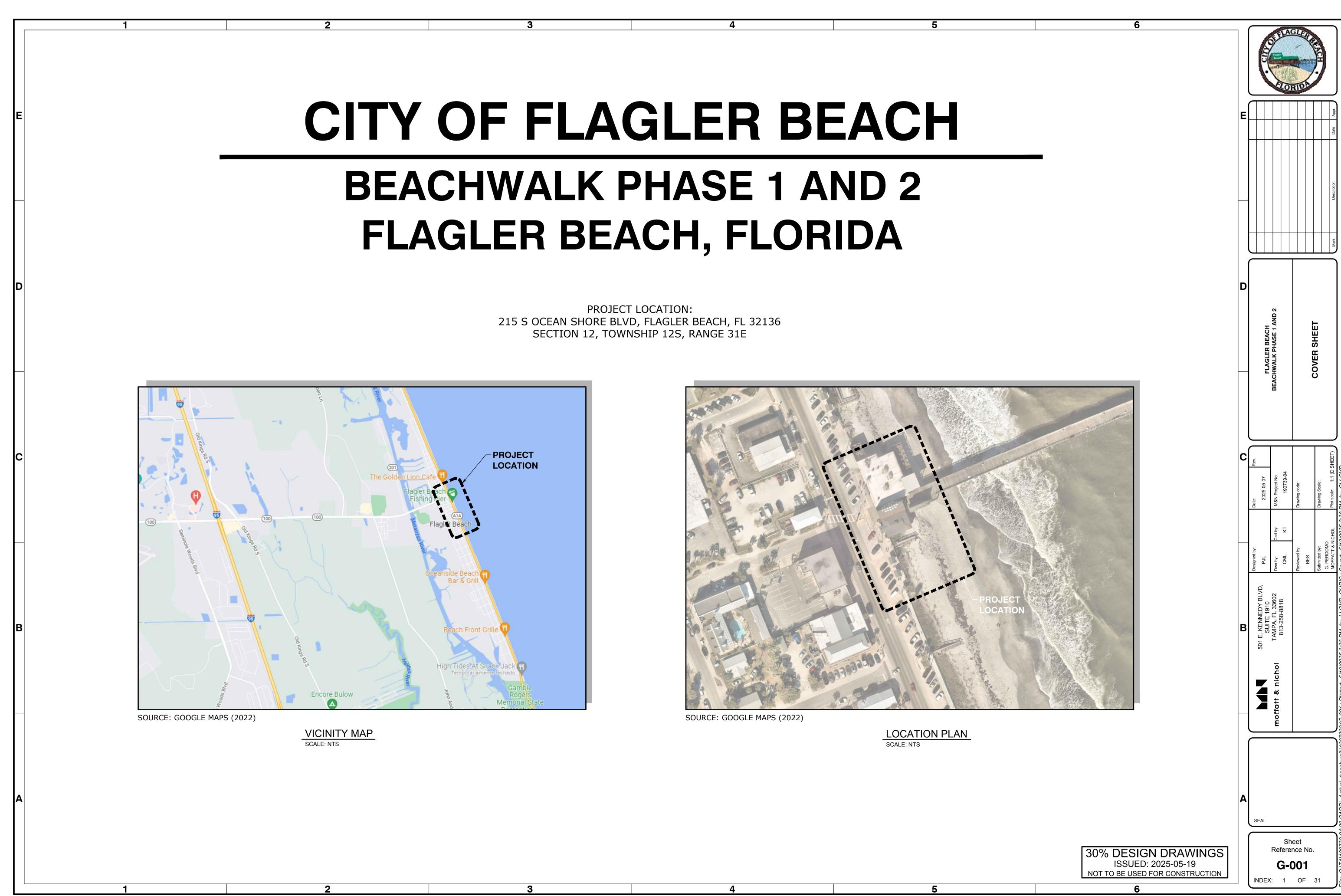
| PROPARI E ORINION OF CONSTRUCTION COST                    |        |           | DATE  |             | AILED                |              |  |
|---|--------|-----------|---|-------------|----------------------|--------------|--|
| PROBABLE OPINION OF CONSTRUCTION COST                     |        | 16-May-25 |   |             |                      |              |  |
| CLIENT AND LOCATION                                       |        |           | ESTIMATED BY Moffatt & Nichol MN JOB NUMBER |             |                      |              |  |
| City of Flagler Beach                                     |        |           |   |             |                      |              |  |
| Flagler Beach, Florida                                    |        |           |   |             |                      | ИBER         |  |
| PROJECT TITLE   |        |           | 19  |             | 0739/04              |              |  |
|   |        |           |   | STATUS      | OF D                 | DESIGN       |  |
| City of Flagler Beach Beachwalk Phase I and II            |        |           |   | 30% Des     | ign S                | ubmittal     |  |
|   | QUAN   | QUANTITY  |   |             | ENGINEERING ESTIMATE |              |  |
| ITEM DESCRIPTION  | NUMBER | UNIT      | T   | JNIT COST   |                      | TOTAL        |  |
|   |        |           |   |             |                      |              |  |
| 1 General Conditions                                      |        |           |   |             | \$                   | 200,000.00   |  |
| Mobilization/demobilization                               | 1      | LS        | \$  | 200,000.00  | \$                   | 200,000.00   |  |
| 2 Building Foundation and Promenade Structural Components |        |           |   |             | \$                   | 1,185,800.00 |  |
| Demolition of Existing Timber Piles                       | 12     | EA        | \$  | 300.00      | \$                   | 3,600.00     |  |
| Demolition of Existing Building                           | 1      | LS        | \$  | 120,000.00  | \$                   | 120,000.00   |  |
| 14" Precast, Prestressed Concrete Piles                   | 17     | EA        | \$  | 10,400.00   | \$                   | 176,800.00   |  |
| Cast in Place Concrete                                    | 80     | CY        | \$  | 2,000.00    | \$                   | 160,000.00   |  |
| Precast Concrete Deck Panels                              | 95     | CY        | \$  | 2,000.00    | \$                   | 190,000.00   |  |
| Precast Concrete Bent Caps                                | 75     | CY        | \$  | 2,000.00    | \$                   | 150,000.00   |  |
| 12" Diameter Timber Piles                                 | 84     | EA        | \$  | 1,950.00    | \$                   | 163,800.00   |  |
| Timber Decking  | 4,140  | SF        | \$  | 40.00       | \$                   | 165,600.00   |  |
| Guardrail   | ·      | LS        | \$  | 56,000.00   | \$                   | 56,000.00    |  |
| 3 Site Utilities  |        |           |   |             | \$                   | 60,000.00    |  |
| Site Mechanical   | 1      | LS        | \$  | 18,000.00   | \$                   | 18,000.00    |  |
| Site Electrical and Lighting                              |        | LS        | \$  | 42,000.00   | \$                   | 42,000.00    |  |
| 4. Coming Building (Fetimeted by IDA)                     |        |           |   |             | •                    | 672 000 00   |  |
| 4 Service Building (Estimated by JPA)                     | 4      |           | •   | 0.40.000.00 | \$                   | 673,000.00   |  |
| Restrooms   | 1      |           | \$  | 340,000.00  | \$                   | 340,000.00   |  |
| Support Rooms   | · ·    | LS        | \$  | 110,000.00  | \$                   | 110,000.00   |  |
| Passage Ways  |        | LS        | \$  | 125,000.00  | \$                   | 125,000.00   |  |
| "A" Frame Renovations                                     | 1      | LS        | \$  | 98,000.00   | \$                   | 98,000.00    |  |
| SUBTOTAL  |        |           |   |             | \$                   | 2,118,800    |  |
| Engineer's Contingency                                    | 25%    |           |   |             | \$                   | 529,700      |  |
| TOTAL   |        |           |   |             | \$                   | 2,648,500    |  |
|   |        |           |   |             |                      |              |  |

DATE PREPARED

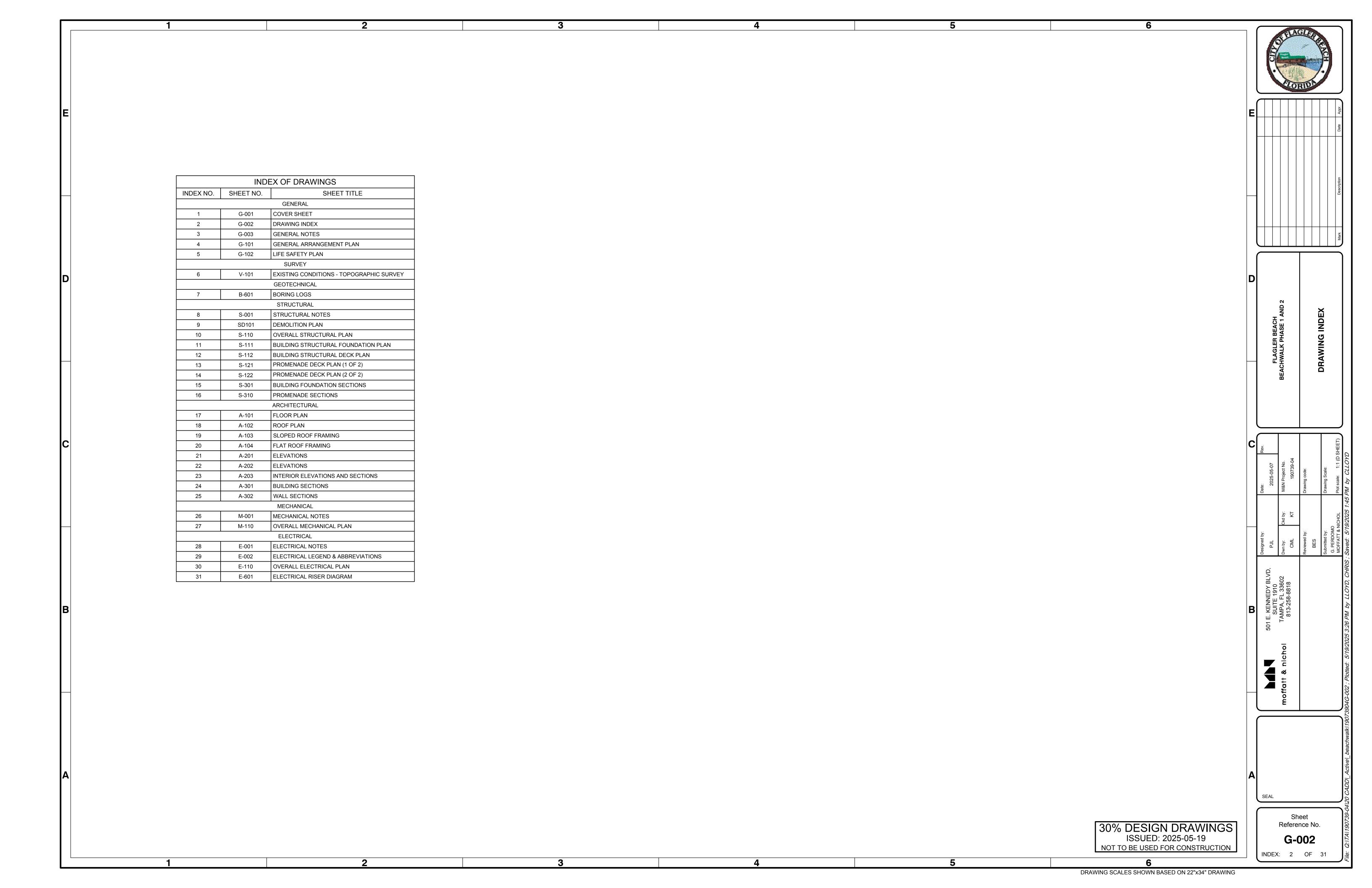
#### NOTES:

- 1. Quantities are based on 30% Design Drawings; dated May 16th, 2025.
- 2. Soft Costs are not included.

<sup>3.</sup> The cost estimates herein are made on the basis of Moffatt & Nichol's experience and qualifications, and represent Moffatt & Nichol's best judgement as an experienced and qualified professional generally familiar with the industry. However, Moffatt & Nichol has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions. Moffatt & Nichol is unable to guarantee that proposals, bids, or actual Construction Costs will not vary from the above estimates.



DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



# **GENERAL NOTES**

- 1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE DRAWINGS, PROJECT SPECIFICATIONS, PROJECT NOTES AND FDOT STANDARD SPECIFICATIONS WHEN REFERENCED. FDOT STANDARD SPECIFICATIONS ARE REFERENCED FOR MATERIAL SPECIFICATIONS AND CONSTRUCTION METHODS UNDER DIVISION II "CONSTRUCTION DETAILS". DIVISION I "GENERAL REQUIREMENTS AND COVENANTS" OF THE FDOT STANDARD SPECIFICATIONS DOES NOT APPLY. THE CONTRACT WITH THE OWNER SHALL GOVERN OVER FDOT SPECIFICATIONS. MEANS OF MEASUREMENT AND PAYMENT SHALL BE AS STIPULATED BY THE OWNER AND THE CONTRACT. FDOT STANDARD SPECIFICATIONS REFER TO THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR ROADWAY AND BRIDGE CONSTRUCTION". 2025 EDITION AND ALL SUPPLEMENTAL SPECIFICATIONS.
- SITE VERIFICATION: PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL CHECK THE DRAWINGS AGAINST THE SITE CONDITIONS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN DIMENSIONS OR SITE CONDITIONS. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER
- ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED.
- 4. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY EXCAVATED MATERIAL OR DEBRIS. DISPOSAL OF THE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEBRIS SHALL BE DISPOSED OF IN A PERMITTED SANITARY LANDFILL.
- THE CONTRACTOR SHALL PLACE CONSTRUCTION DEBRIS CONTROL DEVICES, BOOMS, TARPAULINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE WATER AND AIRBORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA OR IN THE WATER. SEE PERMIT CONDITIONS.
- 7. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS, AND REGULATIONS.
- CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCING WITH CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS WITH EXISTING UTILITIES PRIOR TO COMMENCING WITH WORK IN THE CONFLICT AREA.
- 9. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID FOR THE PROJECT.
- 10. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY AND DRAWINGS OF COMPLETED WORK TO THE ENGINEER
- 11. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND/OR LOCAL AUTHORITY.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS AND REPORTING REQUIREMENTS.
- 13. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO ORIGINAL CONDITION TO MATCH ADJACENT GRADES AND SHALL REPLACE ANY DISTURBED PAVED OR GRASSED AREAS IN KIND.
- 14. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY, SECURITY AND PROTECTION OF PERSONNEL, EQUIPMENT, CONSTRUCTION, AND ADJACENT FACILITIES FOR THE DURATION OF THIS CONTRACT. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL PREPARE AND CONFORM TO A PROJECT SPECIFIC HEALTH AND SAFETY PLAN. THE HEALTH AND SAFETY PLAN SHALL INCLUDE APPLICABLE GUIDELINES AND REGULATIONS SET FORTH IN CURRENT OSHA AND FLORIDA STATUTES WITH SPECIFIC ATTENTION TO FLORIDA TRENCH SAFETY ACT AND OSHA TRENCH EXCAVATION SAFETY STANDARDS. THE ENGINEER OF RECORD AND OWNER WILL NOT BE RESPONSIBLE FOR JOB SITE SAFETY PROCEDURES.
- 15. ALL TEMPORARY UTILITIES NECESSARY FOR CONSTRUCTION SHALL BE PROVIDED AT THE EXPENSE OF THE CONTRACTOR.
- 16. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL AND SEDIMENTATION BARRIERS (HAY BALES, SILTATION CURTAINS AND FLOATING TURBIDITY SCREENS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, AND WATERWAYS. IF, IN THE OPINION OF THE CITY AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE BEING TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR VEHICULAR TRAFFIC, THE CONTRACTOR SHALL REMOVE AND CLEAN SAID EARTH FROM TRAVEL WAYS TO THE SATISFACTION OF THE CITY AND/OR OTHER AUTHORITIES.

- 17. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA TO OBTAIN LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO PERFORMING EXCAVATIONS.
- 18. THE CONTRACTOR SHALL CONSIDER AND PLAN FOR, ON A DAILY BASIS, THE EFFECT OF TIDAL FLUCTUATION AND SEA CONDITION IN THE EXECUTION OF THE WORK.
- 19. SCALE BARS ARE INTENDED FOR REFERENCE ONLY. ALL DIMENSIONS NECESSARY FOR CONSTRUCTION SHALL BE TAKEN FROM DIMENSION ANNOTATION AND NOT SCALED DIRECTLY FROM DRAWINGS.
- 20. FUNKY PELICAN RESTAURANT SHALL REMAIN OPEN AND ACCESSIBLE TO THE PUBLIC AT ALL TIMES.

# **SURVEY NOTES**

- 1. ELEVATIONS SHOWN HEREIN REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 2. HORIZONTAL CONTROL REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83), STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE, IN FEET.
- UNDERGROUND UTILITIES, FOUNDATIONS AND/OR OTHER IMPROVEMENTS HAVE NOT BEEN LOCATED EXCEPT THOSE SHOWN ON THESE DRAWINGS.
- 4. THE FOLLOWING TIDAL DATUM RELATIONSHIP IS BASE ON NOAA STATION 8720218 MAYPORT (BAR PILOTS DOCK), FL:

| VERTICAL DATUM<br>RELATIONSHIP |            |  |  |  |  |
|--------------------------------|------------|--|--|--|--|
| DATUM                          | ELEV       |  |  |  |  |
| MHHW                           | +1.57 FEET |  |  |  |  |
| MHW                            | +1.20 FEET |  |  |  |  |
| NAVD88                         | 0.00 FEET  |  |  |  |  |
| MSL                            | -0.79 FEET |  |  |  |  |
| MLW                            | -2.71 FEET |  |  |  |  |
| MLLW                           | -2.86 FEET |  |  |  |  |

- HYDROGRAPHIC SURVEY BY MORGAN & EKLUND INC., DATED OCTOBER 26, 2022 AND IS ONLY INDICATIVE OF THE CONDITIONS EXISTING AT THAT TIME.
- TOPOGRAPHIC SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION DATED OCTOBER 18TH, 2022 WITH UPDATED TOPOGRAPHY AND EXISTING SURVEY CONDITIONS PERFORMED ON JANUARY 18, 2025 AND ONLY INDICATIVE OF THE CONDITIONS EXISTING AT THAT TIME

# **DEMOLITION NOTES**

- 1. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE DEMOLITION WITHIN THE LIMITS OF THE REQUIRED CONSTRUCTION AND AVOID ANY DAMAGE TO THE EXISTING STRUCTURE
- PRIOR TO GENERAL DEMOLITION, THE CONTRACTOR SHALL SAWCUT WHERE NOTED OR OTHERWISE PROVIDE A SMOOTH, CLEAN, PARALLEL FULL DEPTH BREAK FROM ALL CONNECTING LINKS TO THE REMAINING STRUCTURE.
- 3. ANY DAMAGE INCURRED IN EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY/STRUCTURE NOT SPECIFICALLY DESIGNATED FOR DEMOLITION SHALL BE REPAIRED, REPLACED, AND/OR RECONSTRUCTED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION AS DIRECTED BY THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- 4. ALL DEMOLISHED MATERIAL, EXCEPT AS NOTED OTHERWISE, BECOMES THE PROPERTY OF, AND SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE REMOVAL, HANDLING, AND DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE MATERIALS TO BE DISPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.
- 6. THE CONTRACTOR IS RESPONSIBLE TO CONTROL FUGITIVE DUST ORIGINATING FROM THE PROJECT SITE DURING CONSTRUCTION BY WATERING OR OTHER METHODS AS REQUIRED.
- 7. ALL SURVEY MONUMENTS WITHIN LIMITS OF CONSTRUCTION SHALL BE PROTECTED.
- 8. ALL CONCRETE SHALL BE ASSUMED TO BE STEEL REINFORCED, UON.

- 9. TIMBER PILES AND SUBSTRUCTURE SHALL BE ASSUMED TO BE TREATED WITH CCA AND/OR CREOSOTE. TREATED TIMBER SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS
- 10. CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE PROJECT AREA. RELOCATION OR REMOVAL OF UTILITIES TO BE COORDINATED WITH THE OWNER OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 11. CONTRACTOR SHALL KEEP DETAILED RECORDS OF DISPOSAL HAUL TRUCK LOAD MATERIALS, WEIGHTS, AND DISPOSAL LOCATION INCLUDING GPS COORDINATES AND ANY ADDITIONAL RECORDS REQUIRED BY THE OWNER.

# **ENVIRONMENTAL NOTES**

- CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL PERMIT CONDITIONS, INCLUDING ANY COLLECTION OF DATA AND REPORTING REQUIREMENTS INCLUDED IN THE PERMITS.
- CONTRACTOR SHALL ADHERE TO THE FFWCC STANDARD MANATEE CONDITIONS, AND NOAA FISHERIES PROTECTED SPECIES CONSTRUCTION CONDITIONS FOR IN-WATER WORK.
- 3. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO DAYLIGHT HOURS ONLY.

# GEOTECHNICAL NOTES

 THE DESIGN DRAWINGS ARE BASED ON THE PRELIMINARY REPORT OF GEOTECHNICAL ENGINEERING SERVICES FOR FLAGLER BEACH FISHING PIER BY TIERRA, INC. DATED FEBRUARY 15, 2025.

# **ABBREVIATIONS**

EQ

= CAST IN PLACE CONC = CONCRETE = DOUBLE EΑ = EACH EL = ELEVATION **EMBED** = EMBEDMENT

FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION

FFE = FINISH FLOOR ELEVATION

**FFWCC** = FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION GALV

= GALVANIZED LG = LONG MAX = MAXIMUM

= EQUAL

= MEAN HIGH WATER

MHHW = MEAN HIGHER HIGH WATER = MINIMUM

MLW = MEAN LOW WATER

MLLW = MEAN LOWER LOW WATER MSL = MEAN SEA LEVEL

NAD = NORTH AMERICAN DATUM = NORTH AMERICAN VERTICAL DATUM 88 NAVD88

= NOT IN CONTRACT NOAA = NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION

SPA = SPACES SPT = STANDARD PENETRATION TEST

= STAINLESS STEEL

TYP = TYPICAL = UNLESS OTHERWISE NOTED

= CENTERLINE = MINUTES OR FEET

= INCHES

= AND = DEGREE

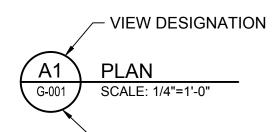
= PLUS OR MINUS

= DIAMETER

= PLATE

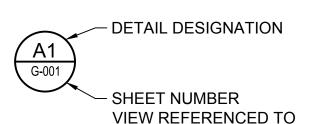
# LEGEND

---(0.00)--- = CONTOUR ---MHW --- = MHW LINE

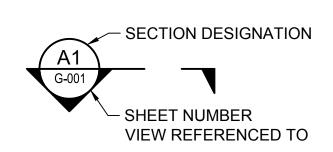


SHEET NUMBER VIEW REFERENCED FROM

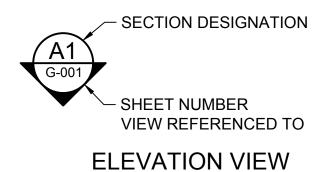
# **VIEW TITLE**



DETAIL CALLOUT



SECTION CALLOUT



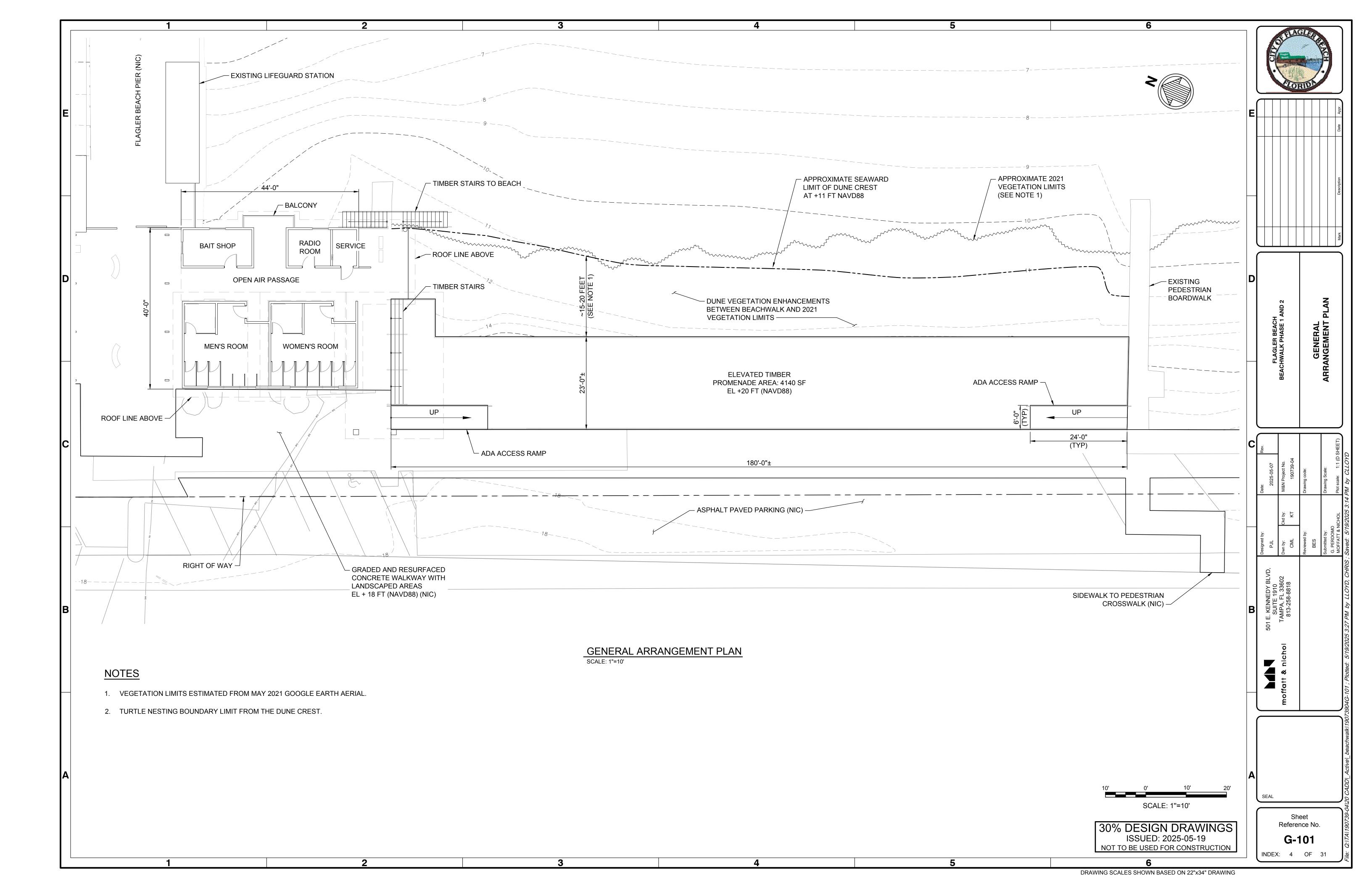
30% DESIGN DRAWINGS ISSUED: 2025-05-19 NOT TO BE USED FOR CONSTRUCTION

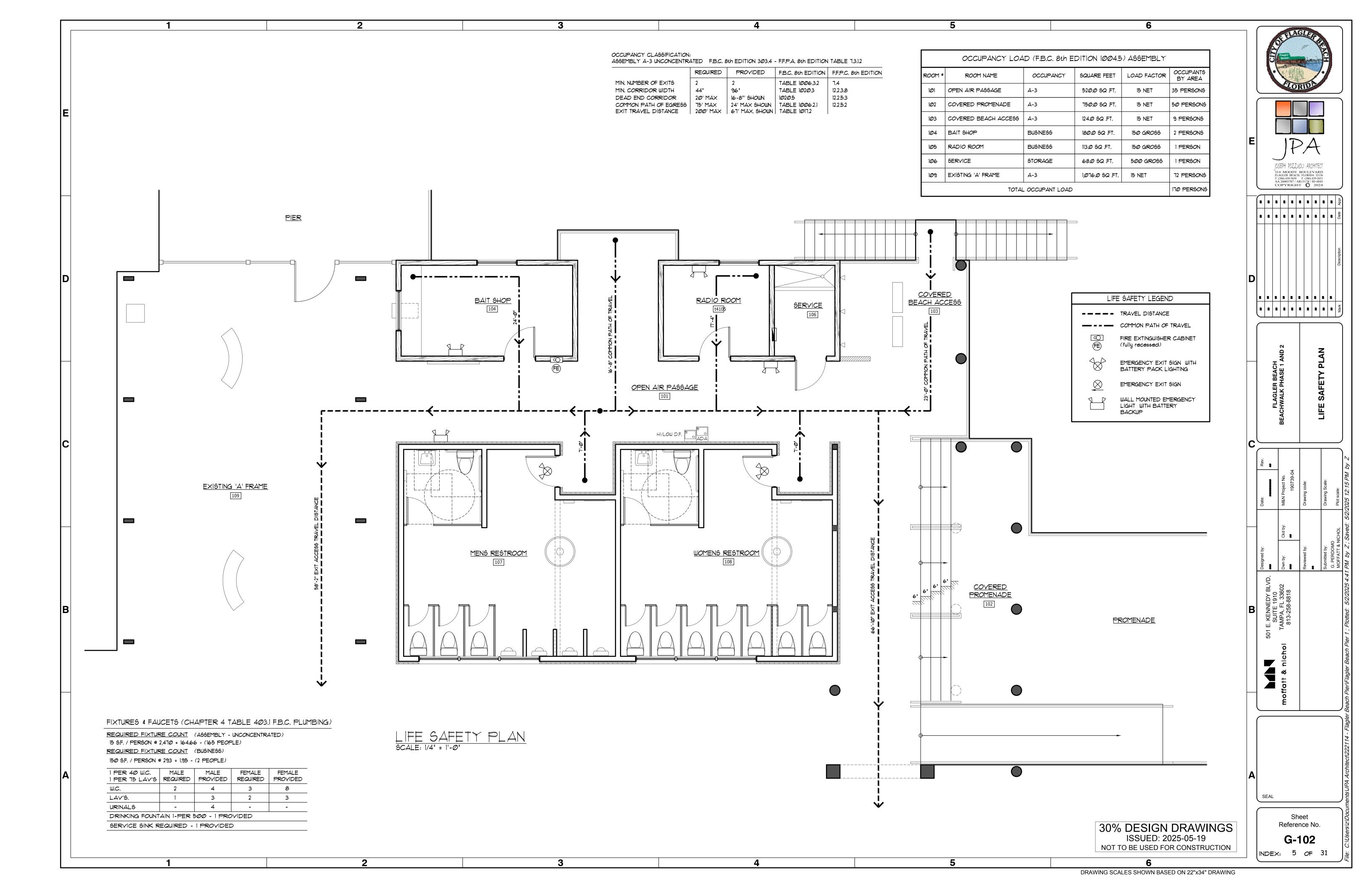
INDEX: 3 OF 31

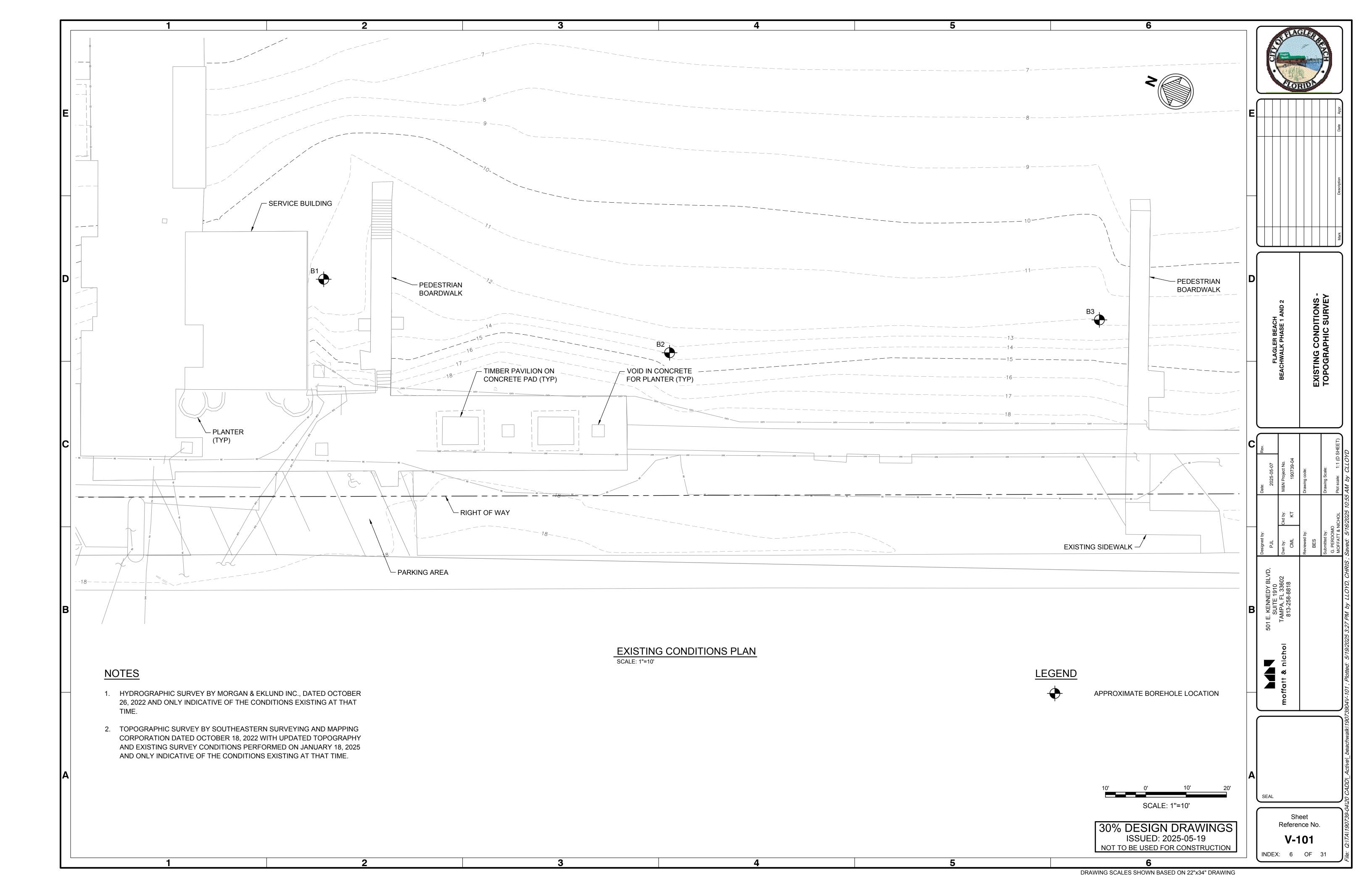
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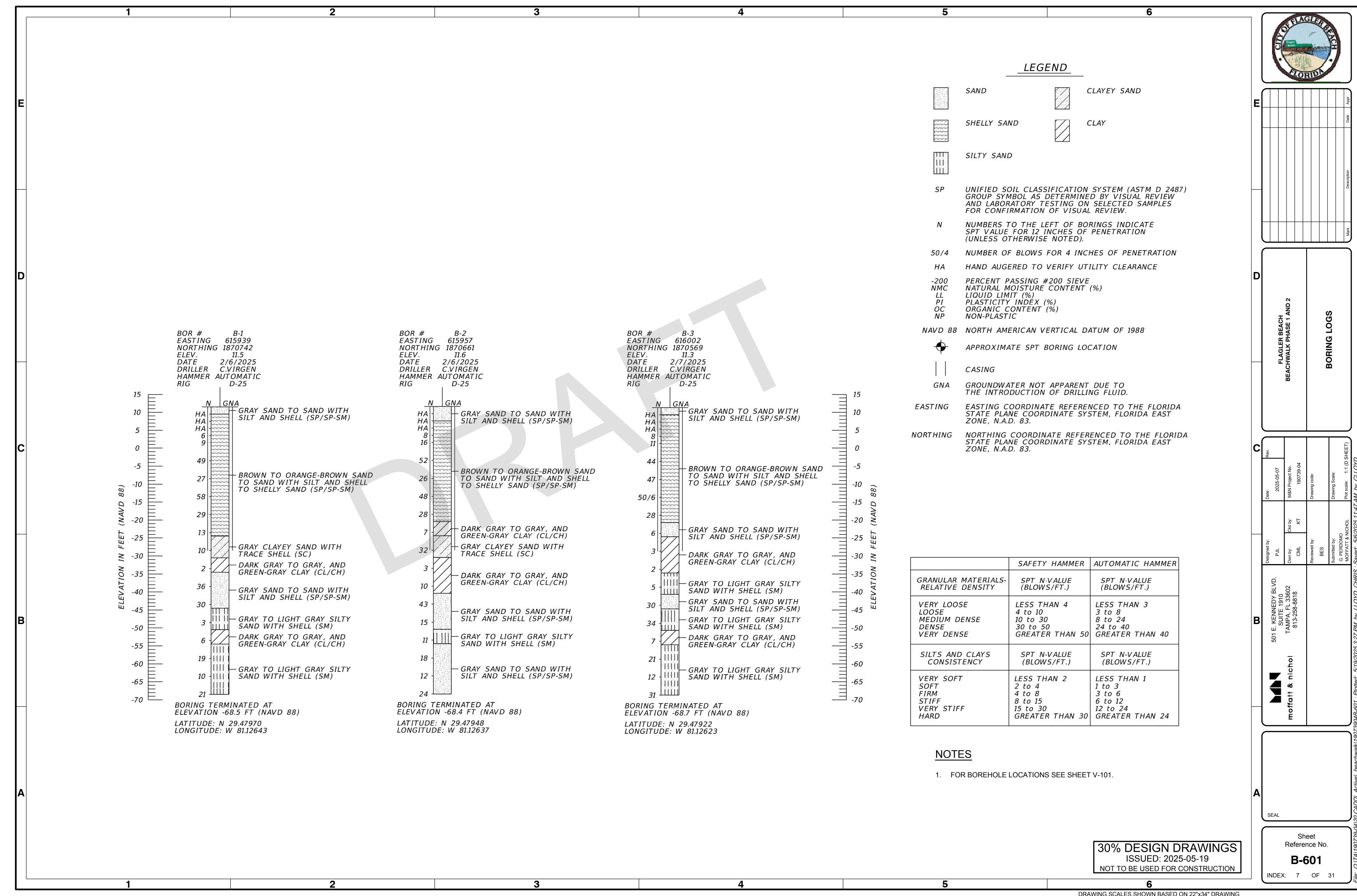
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



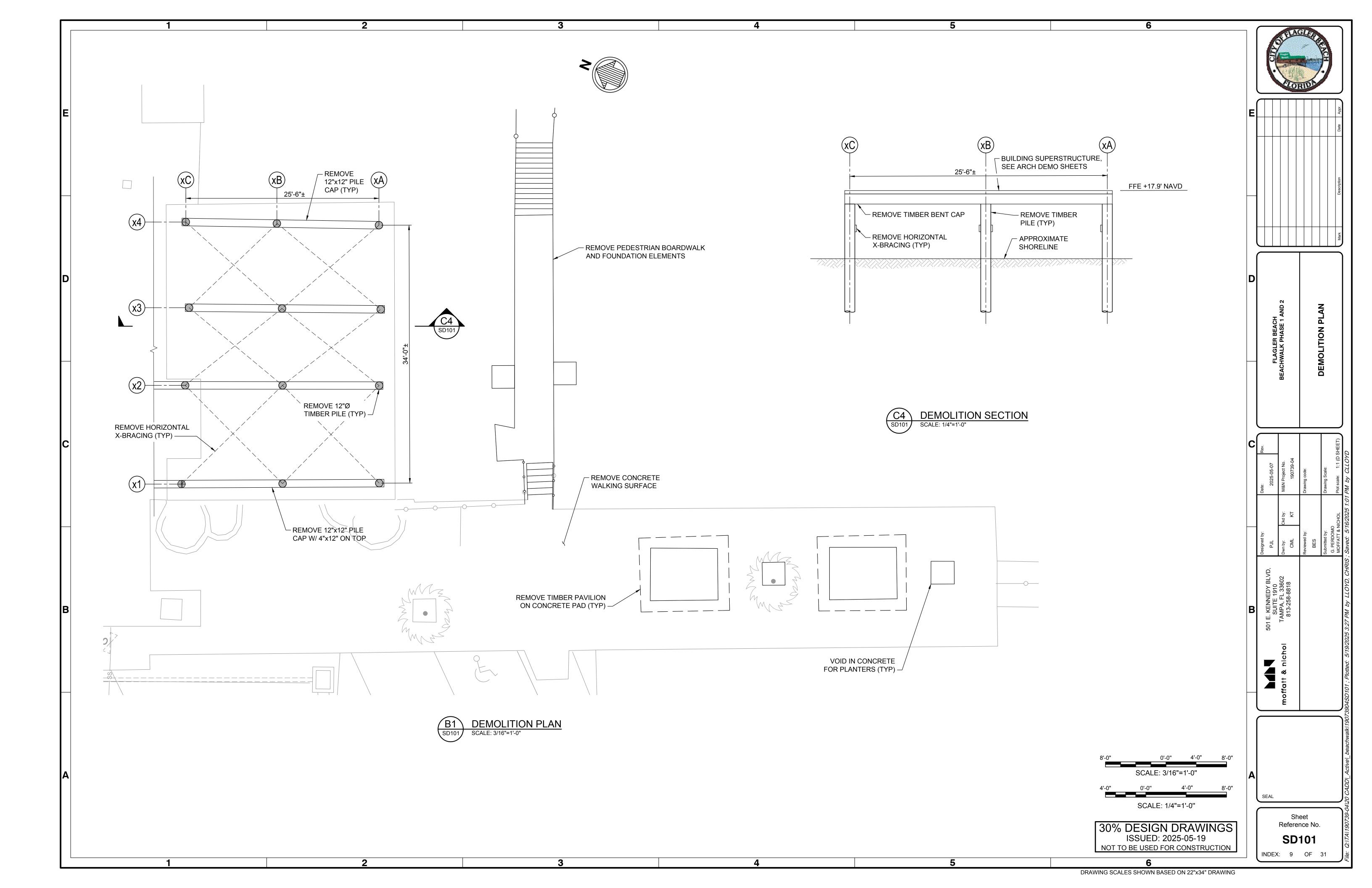


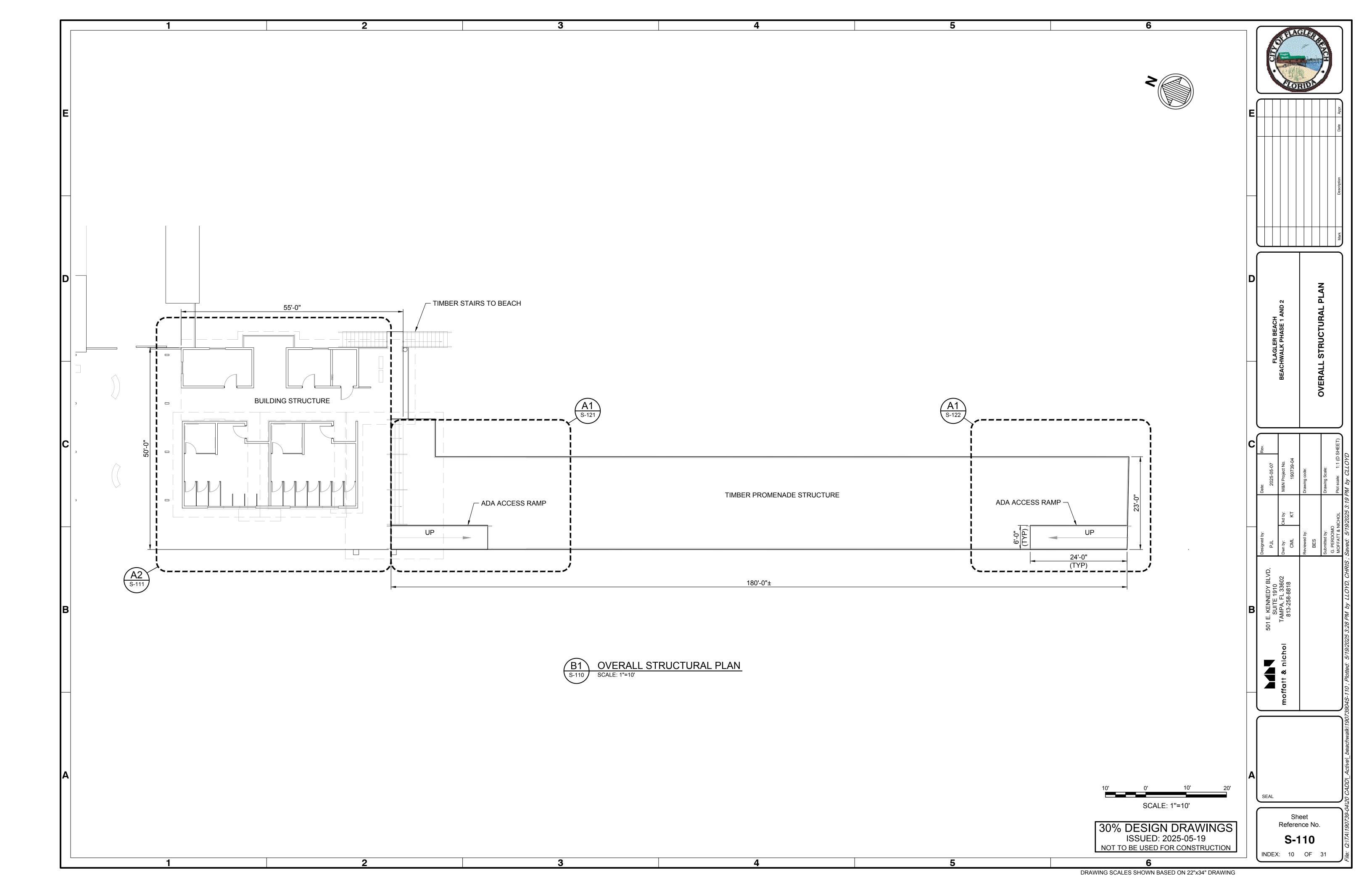


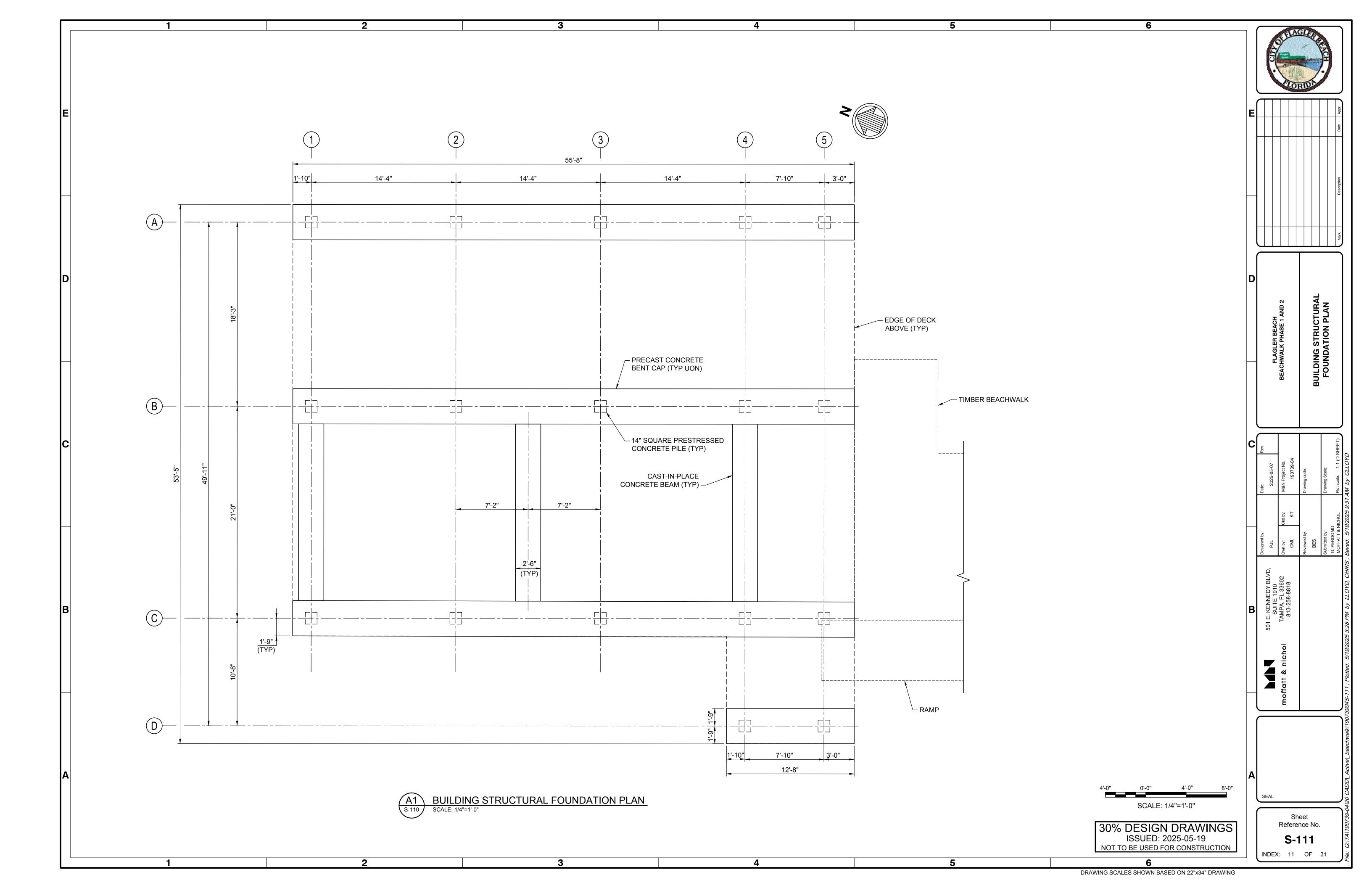


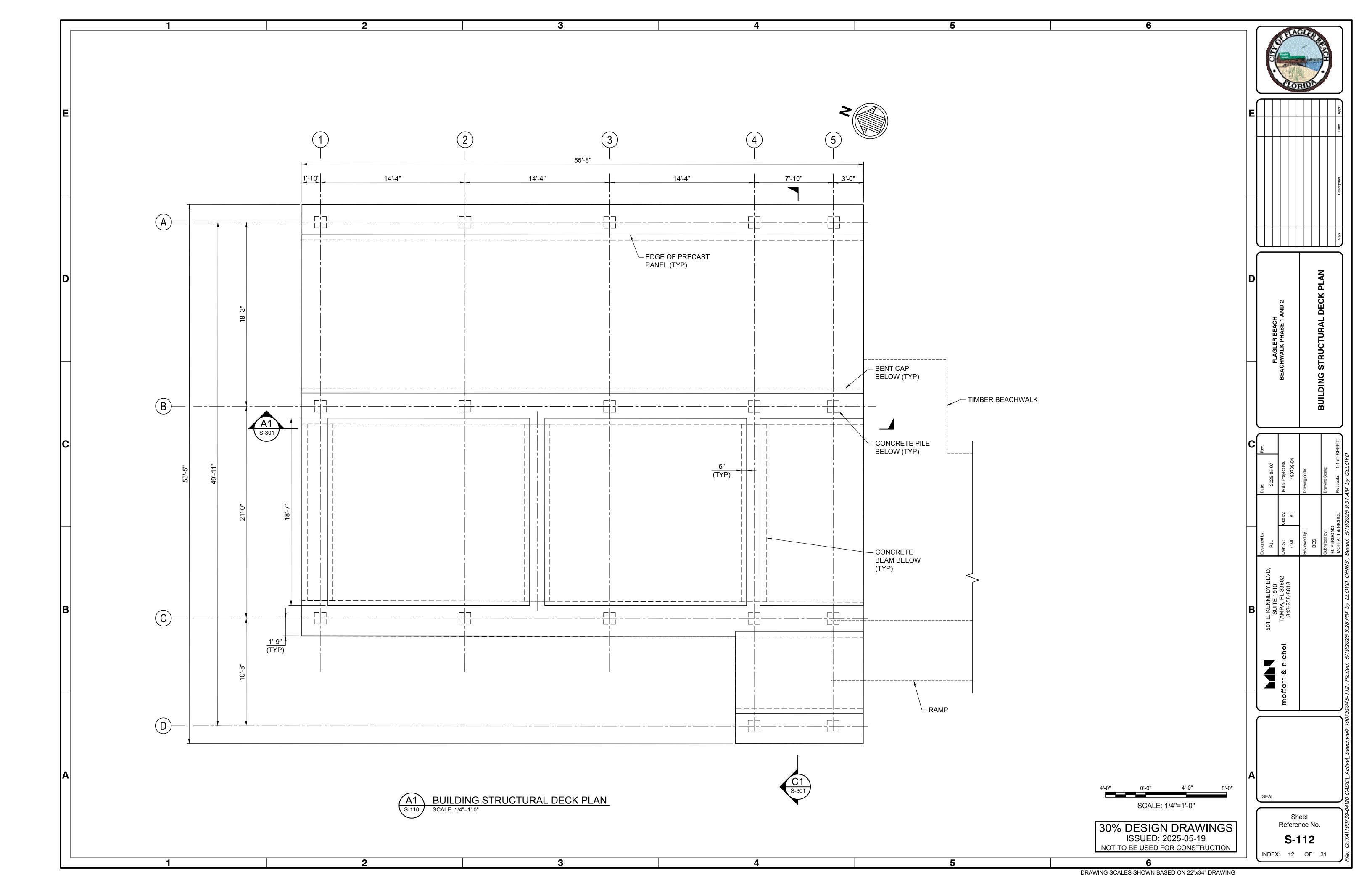
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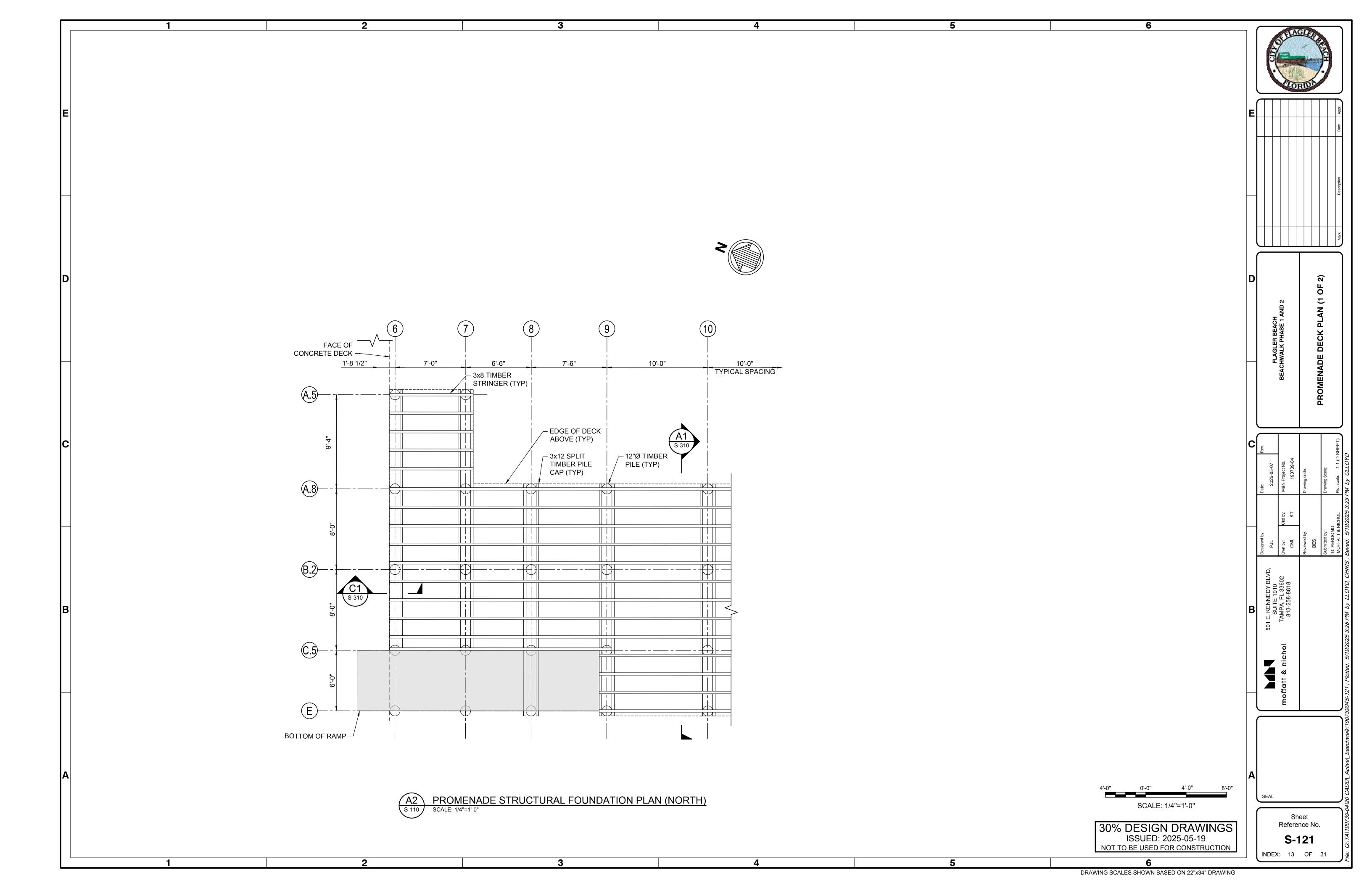
#### **DESIGN CRITERIA** TIMBER CONSTRUCTION: 10. ALL EXPOSED CONCRETE CORNERS SHALL HAVE 3/4" CHAMFERS 1. LOADS AND DEFLECTION LIMITS: ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN 11. LOADING CRITERIA ARE BASED ON CAREFUL HANDLING OF THE PILE. ROTATION OF THE PILE IN THE A. UNIFORM LIVE LOAD. INSTITUTE OF TIMBER CONSTRUCTION, THE AMERICAN WOOD COUNCIL, AND NDS. SLING SHALL BE PREVENTED UNTIL THE PILE IS IN THE VERTICAL POSITION . 400 LB POINT LOAD B. CONCENTRATED LIVE LOAD... C. MAXIMUM DEFLECTION. 2. TIMBER PILES SHOULD BE DRIVEN TO THE TIP ELEVATION INDICATED ON THE DRAWINGS, USING A . L/240 D. WIND LOAD... .134 MPH, 3-SEC GUST , RISK CATAGORY II, EXPOSURE D HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER 12. CONTRACTOR SHALL DETERMINE PICK-UP POINTS USING THE ALLOWABLE HANDLING STRESSES MANUFACTURER'S RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND THE CHARACTER OF 2. DESIGN CODES AND STANDARDS: THE SUBSURFACE MATERIAL TO BE ENCOUNTERED. 13. PICK-UP POINTS FOR ALL PILES SHALL BE CLEARLY MARKED ON PILES. SUPPORTS FOR STORAGE SHALL BE AT PICK-UP POINTS. PILES SHALL BE MADE AT A CENTRAL PLANT AND BE TRANSPORTED TIMBER PILES SHOULD BE TREATED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR A. FLORIDA BUILDING CODE (2025). TO THE PROJECT SITE. B. AMERICAN SOCIETY OF CIVIL ENGINEERS - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER TIMBER IN SALTWATER IMMERSION. STRUCTURES (ASCE 7-22). 14. STRESS AND LOADING CRITERIA ARE BASED ON NORMAL CARE IN HANDLING THE PILE. IF HANDLING C. AMERICAN CONCRETE INSTITUTE - BUILDING CODE REQUIREMENTS FOR STRUCTURAL 4. ALL OTHER TIMBER MATERIALS SHOULD BE TREATED IN ACCORDANCE WITH AWPA C2 FOR TIMBER IS SUCH THAT DAMAGE IN THE PILE BECOMES EVIDENT, THE ENGINEER MAY REQUIRE A HIGHER IN SALTWATER IMMERSION, PRESERVATIVE RETENTION SHALL BE 2.50 PCF, UNLESS OTHERWISE CONCRETE (ACI 318-19). LOAD FACTOR OR LOWER ALLOWABLE STRESS AS NECESSARY TO INSURE NO DAMAGE TO PILES D. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS 2024). NOTED. CCA PRESERVATIVE RETENTION OF 2.50 PCF IS ALLOWED ONLY IN MEMBERS SUBJECT TO E. AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL, 16TH EDITION. SALTWATER IMMERSION. F. AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (AWS D1.1 - 2025). 15. CONTRACTOR SHALL REPAIR ALL HANDLING LOCATIONS PRIOR TO INSTALLATION. EMBEDDED TIMBER RELATED MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED: LIFTING LOOPS SHALL BE PROVIDED WITH 2" DEEP FOAM BLOCKOUTS. LIFTING LOOPS SHALL BE REMOVED TO PROVIDE 2" MINIMUM CLEAR COVER. THE REMAINING CAVITIES SHALL BE CLEANED OF CONCRETE AND REINFORCING STEEL ALL SLAG AND LOOSE MATERIAL, AND THEN FILLED WITH A PATCHING MATERIAL. THE PATCHING MATERIAL MUST MEET OR EXCEED PILE CONCRETE REQUIREMENTS FOR STRENGTH AND B. TIMBER BENT CAPS, STRINGERS AND MISC TIMBER (INCLUDING HANDRAIL) . . SP NO. 1 (S4S) PERMEABILITY. 1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301 AND 318 UNLESS C. CONNECTION HARDWARE . . . . . . . . . ASTM F593, TYPE 316L STAINLESS STEEL OTHERWISE NOTED. 16. REMOVE AND PATCH ALL TEMPORARY LIFTING EYES, HOLES OR OTHER DEVICES USED FOR 6. WHEN CONNECTING HARDWARE IS SHOWN ON THE DRAWINGS, THE TYPE, SIZE, SPACING, AND 2. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) HANDLING PILES THAT ARE EXPOSED ABOVE THE MUDLINE, PATCH WITH APPROVED PATCHING ALIGNMENT ARE CRITICAL AND MUST BE MAINTAINED. DO NOT UNDERCUT WOOD. CONNECTIONS MATERIALS IN ACCORDANCE WITH MATERIAL MANUFACTURER'S WRITTEN INSTRUCTIONS. SHALL PULL AND HOLD MEMBERS BEING JOINED INTO CLOSE CONTACT. 3. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315. 17. CONTRACTOR SHALL CAST CORRUGATED METAL TUBE IN THE TOP OF THE PILE FOR EACH DOWEL. 7. WASHERS SHALL BE CIRCULAR FLAT SMOOTH AND SHALL CONFORM TO ANSI B18.22.1. STAINLESS. METAL TUBE SHALL BE GALVANIZED, WITH 24 GA MINIMUM THICKNESS AND SHALL HAVE AN USE DOCK WASHERS OR OGEE WASHERS WHERE INDICATED OR REQUIRED. 4. MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE 3" UNLESS OTHERWISE NOTED. INTERNAL DIMENSION AS SHOWN. CAP TUBE TO PREVENT INFILTRATION OF CONCRETE DURING PLACING. CLEAN HOLE OF DUST, WATER, AND/OR OIL BEFORE INSTALLING DOWEL. WHEN DOWEL IS CHECK ALL BOLTS BY BURRING THE THREADS AFTER THE NUTS HAVE BEEN FINALLY TIGHTENED. 5. LAP SPLICES SHALL BE MINIMUM CLASS "B" LAP SPLICES IN ACCORDANCE WITH ACI 318. PLACED, GROUT SHALL SPILL OUT THE TOP OF THE TUBE TO ENSURE DOWEL TUBE IS FILLED. RECOAT EXPOSED PORTION OF BOLT WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT. EXCESS GROUT SHALL BE CLEANED FROM PILE HEAD PRIOR TO CONCRETE PLACEMENT. WELDING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING 9. BORE HOLES FOR THRU BOLTS WITH A BIT 1/16 INCH LARGER IN DIAMETER THAN THE SHANK OF THE CODE - REINFORCING STEEL" (AWS D1.4). 18. PROVIDE EPOXY BONDING AGENT ON CONTACT SURFACES OF PILES PRIOR TO PLACING BOLT. CAST-IN-PLACE CONCRETE. REINFORCEMENT HOOKS AND BENDS SHALL BE STANDARD HOOKS CONFORMING TO THE 10. FIELD TREAT ALL CUTS, ABRASIONS, BOLT HOLES, AND OTHER SURFACE DAMAGE IN TREATED PROVISIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-19), UON. TIMBER IN ACCORDANCE WITH AWPA M4. 19. CONTRACTOR SHALL COORDINATE PILE DRIVING SCHEDULE SO AS NOT TO INTERFERE WITH OR BE DETRIMENTAL TO THE CONCRETE PLACEMENT AND CURING OPERATIONS. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED: 11. TIMBER DIMENSIONS INDICATED ON DRAWINGS ARE NOMINAL DIMENSIONS. A. CONCRETE STRENGTH 20. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PILES THAT DO NOT MEET THE REQUIRED 12. CONTRACTOR SHALL PROVIDE MATERIAL CERTIFICATIONS FOR ALL PERMANENT MATERIAL MINIMUM EMBEDMENT AND AXIAL CAPACITY. INCLUDING BUT NOT LIMITED TO TIMBER, COMPOSITE, AND TIMBER TREATMENT NON-SHRINK GROUT..... 8000 PSI PRECAST CONCRETE...... 5500 PSI (MIN, FDOT CLASS IV) 21. CONTRACTOR TO SURVEY AND MONITOR FOR SETTLEMENT OF SURROUNDING EXISTING STRUCTURES AS PER FDOT SECTION 18-2. PRESTRESSED CONCRETE PILES B. REINFORCING STEEL SHALL HAVE THE FOLLOWING CHARACTERISTICS: REINFORCING STEEL ...... ASTM A615, GRADE 60 22. CONTRACTOR TO EMPLOY A SPECIALTY ENGINEER TO MONITOR AND RECORD GROUND VIBRATION REINFORCING STEEL TO BE WELDED . . . . . . . . . . ASTM A706. GRADE 60 1. PILES SHALL BE 14" SQUARE P/S CONCRETE PILES IN ACCORDANCE WITH FDOT DESIGN STANDARD LEVELS AS PER FDOT SECTION 108.2.2. INDEX NO. 455-001 AND 455-014 AND STANDARD SPECIFICATIONS SECTIONS 450 AND 455. 9. ALL CEMENT SHALL CONFORM TO ASTM C150, TYPE II FOR AN EXTREMELY AGGRESSIVE ENVIRONMENT, WITH SLAG OR FLY ASH, MAXIMUM W/C RATIO IS 0.41. 2. CONCRETE FOR PRESTRESSED PILES SHALL BE FDOT CLASS V (SPECIAL). SEE "CONCRETE AND REINFORCING STEEL" NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION. 10. CONCRETE SHALL CONTAIN CORROSION INHIBITOR. ADJUST BOTTOM CAP REINFORCEMENT AS NECESSARY TO FIT DOWEL BARS. 11. CONTRACTOR SHALL REPAIR ALL SURFACE BLEMISHES IN CONCRETE WITHIN 24 HOURS AFTER FORM REMOVAL. 4. DRIVE PRESTRESSED CONCRETE PILING IN ACCORDANCE WITH FDOT SPECIFICATION 455-7. 12. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED EDGES AND CORNERS. UON. 5. PILES SHALL BE MANUFACTURED BY AN APPROVED FACILITY IN ACCORDANCE WITH FDOT SPECIFICATIONS. STRUCTURAL AND MISCELLANEOUS STEEL 6. SPLICING OF CONCRETE PILES WILL NOT BE PERMITTED. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, ALL WELDING SHALL 7. CONCRETE STRENGTH: CONFORM TO AWS D1.1. THE PILE CYLINDER STRENGTH SHALL BE 7,000 PSI MINIMUM AT 28 DAYS AND 5,250 PSI MINIMUM AT TIME OF TRANSFER OF THE PRESTRESSING FORCE. 2. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED: A. MISC. PLATES, BARS, AND SHAPES. . . . . . . . . ASTM A572, GR 50 REINFORCING STEEL: B. TIMBER CONNECTION HARDWARE . . . . . . . . . ASTM F593 STAINLESS. TYPE 316L ALL REINFORCING STEEL AND DOWELS SHALL BE IN ACCORDANCE WITH ASTM A615 OR ASTM A706, GRADE 60, EXCEPT SPIRAL TIES SHALL BE MANUFACTURED FROM COLD-DRAWN STEEL WIRE 3. ALL NON-STAINLESS STEEL SHAPES, PLATES, OTHER FABRICATIONS, AND ALL NON-STAINLESS MEETING THE REQUIREMENTS OF ASTM A82. HARDWARE SHALL BE GALVANIZED BY THE HOT-DIPPED PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND/OR A153, AS APPLICABLE, AFTER FABRICATION, UNLESS PRESTRESSING STEEL: OTHERWISE NOTED. PRESTRESSING STEEL SHALL BE 0.6" DIAMETER SEVEN-WIRE, UNCOATED LOW-RELAXATION, GRADE 270 AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M203. A STRAND STRESS OF 189 KSI 4. FIELD TREAT DAMAGED GALVANIZED FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, SHALL BE APPLIED TO EACH STRAND. SPIRAL REINFORCEMENT SHALL BE SIZE W-5 COLD-DRAWN COLD GALVANIZING COMPOUNDS OR APPROVED EQUAL CONFORMING TO THE REQUIREMENTS OF STEEL WIRE. CONFORM TO ASTM 82. ASTM A780. IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF UNIT. SPRAY TYPE COLD GALVANIZING COMPOUNDS SHALL NOT BE USED. 9. MANUFACTURE OF THE PILING AND FABRICATION TOLERANCES SHALL BE IN ACCORDANCE WITH THE "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF STRUCTURAL PRECAST CONCRETE PRODUCTS (MNL-116, LATEST EDITION)" PUBLISHED BY PCI. Sheet Reference No. 30% DESIGN DRAWINGS S-001 ISSUED: 2025-05-19 NOT TO BE USED FOR CONSTRUCTION INDEX: 8 OF 31

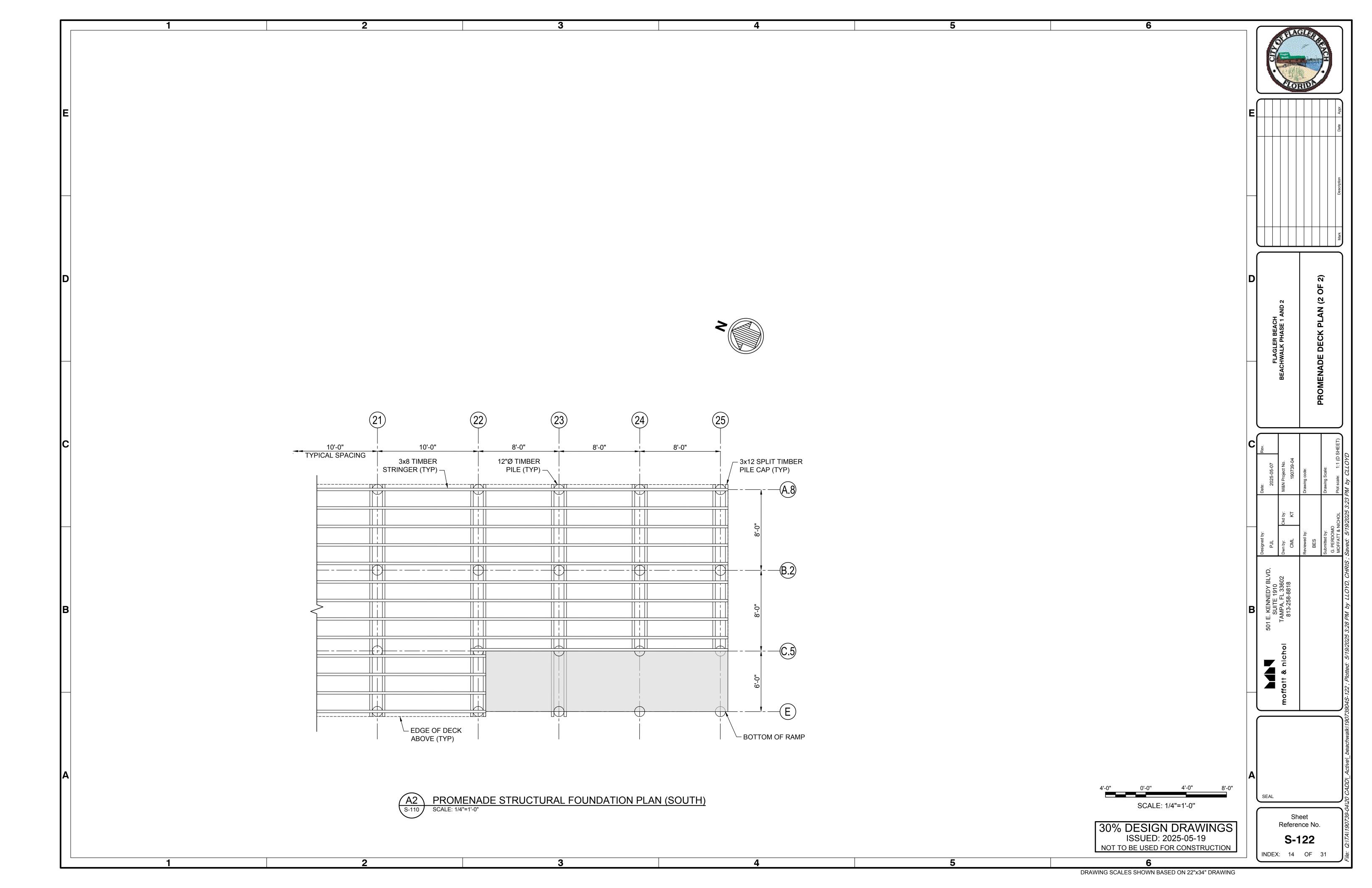


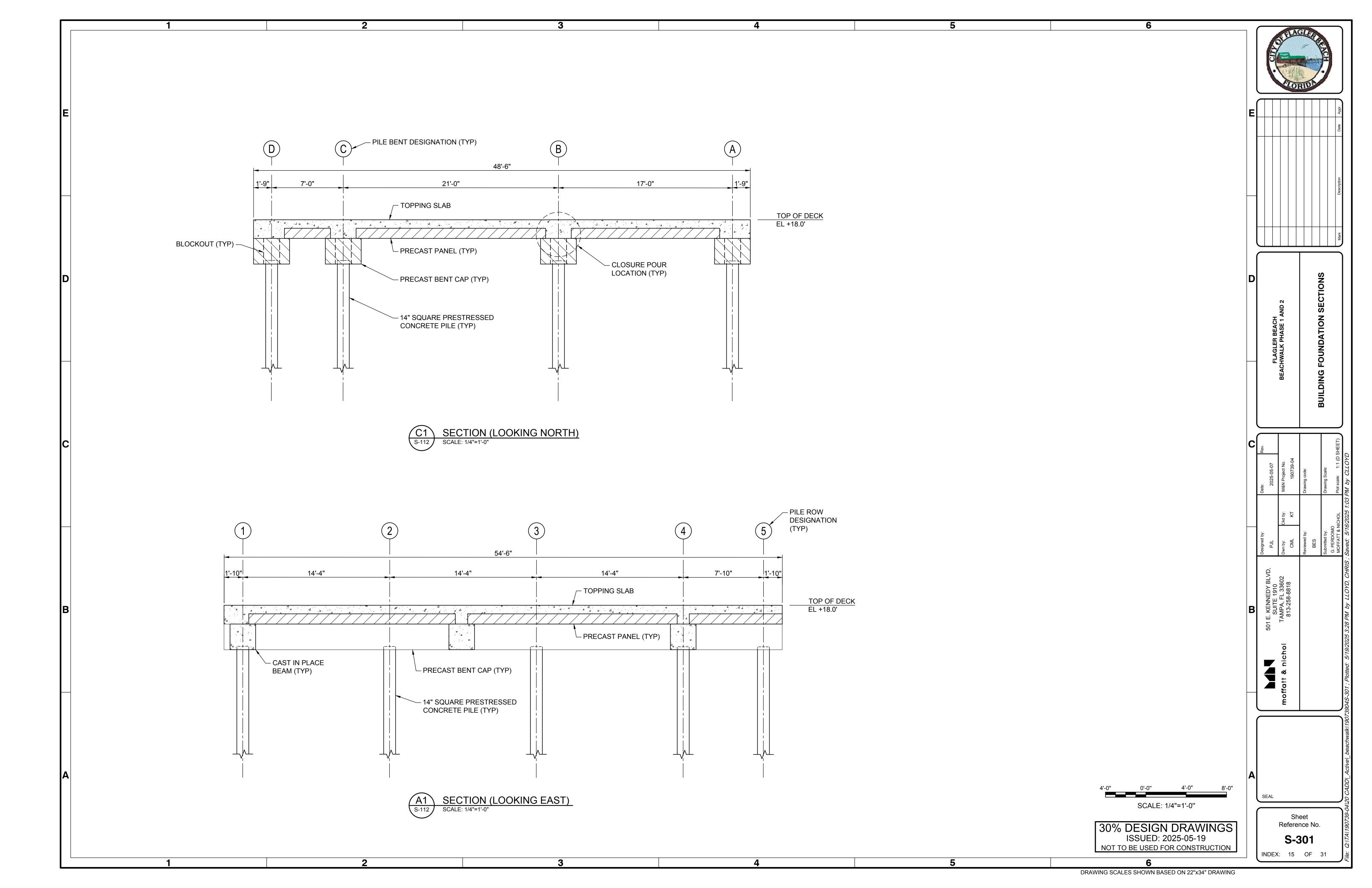


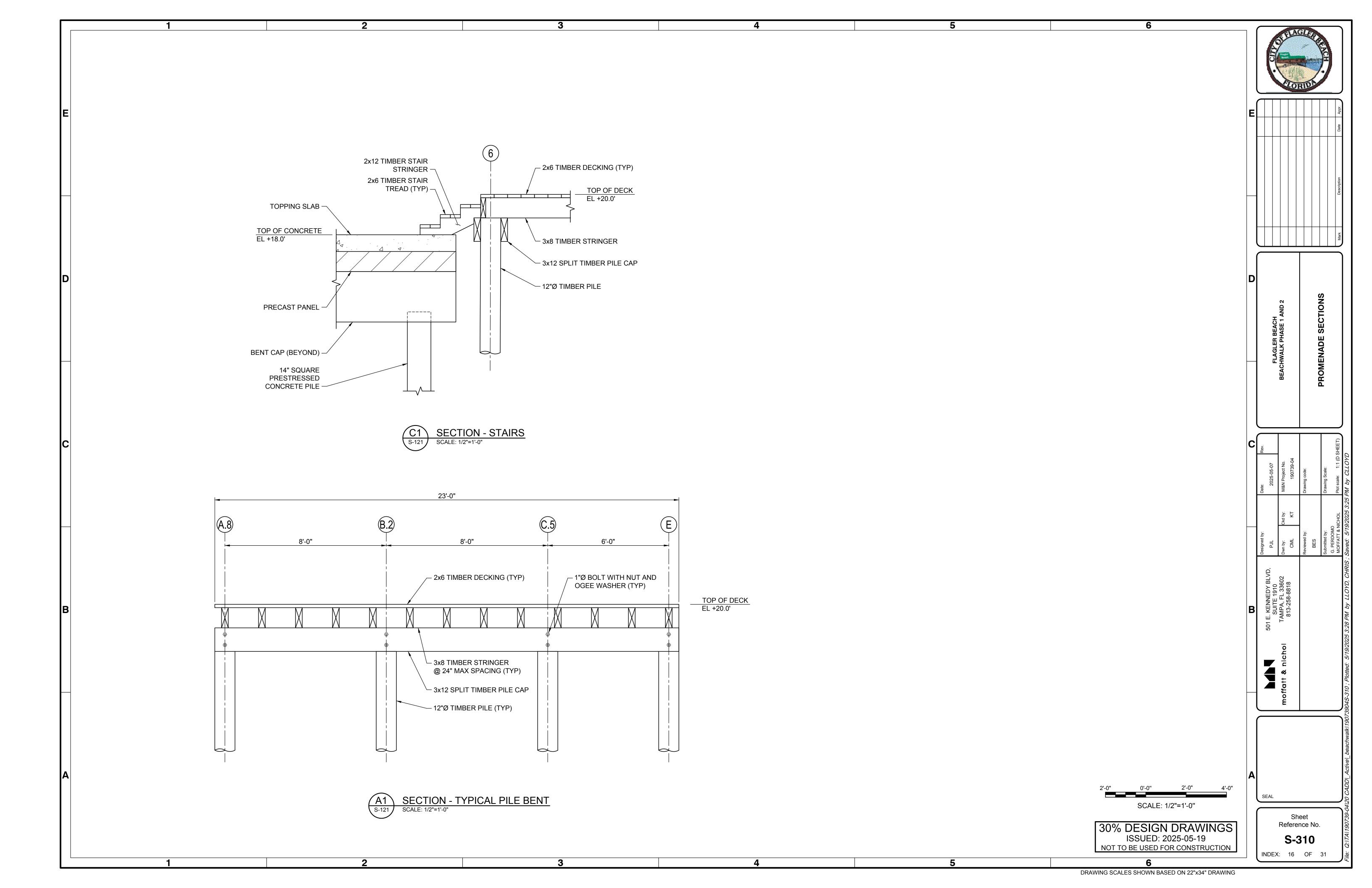


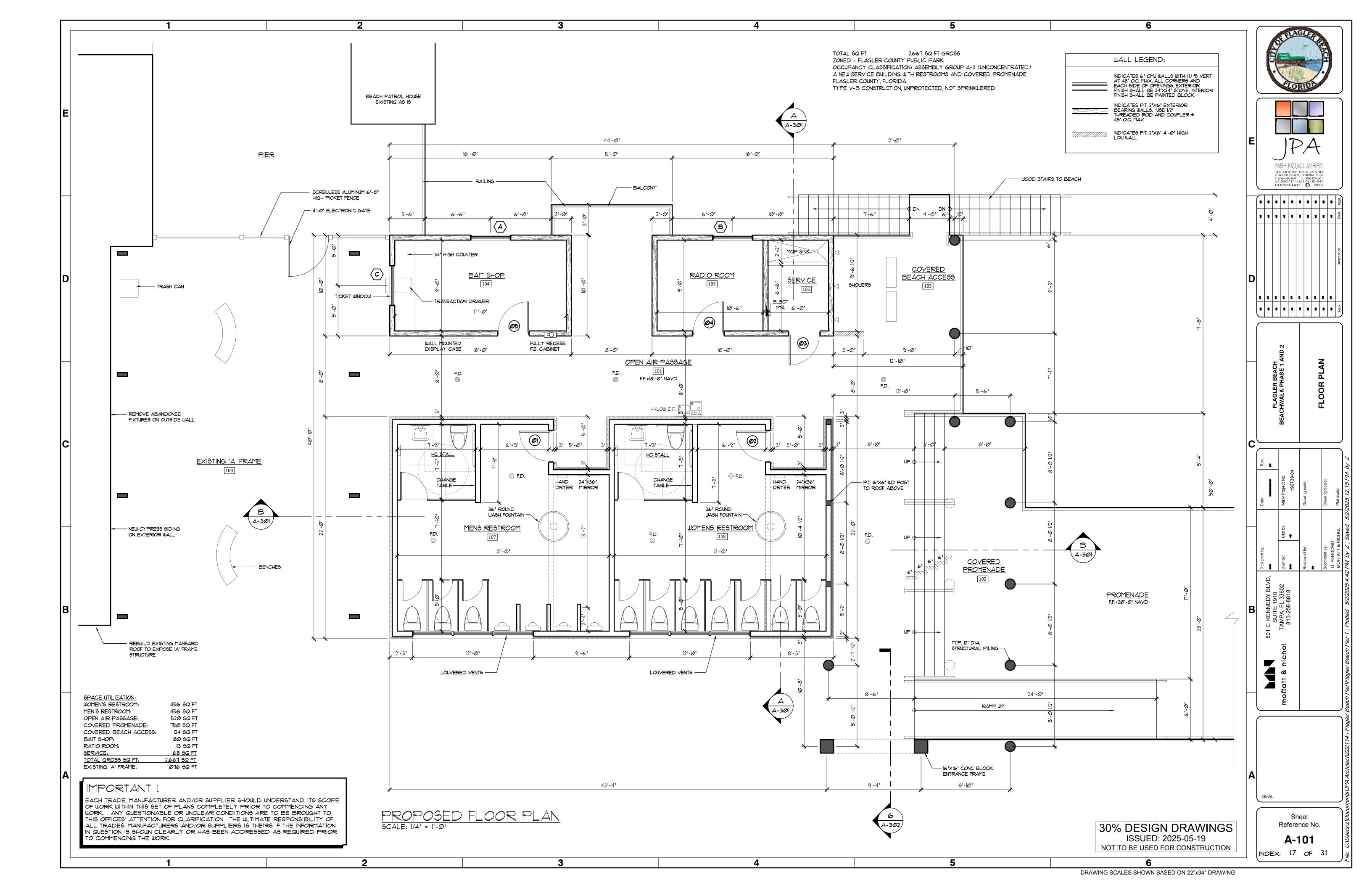


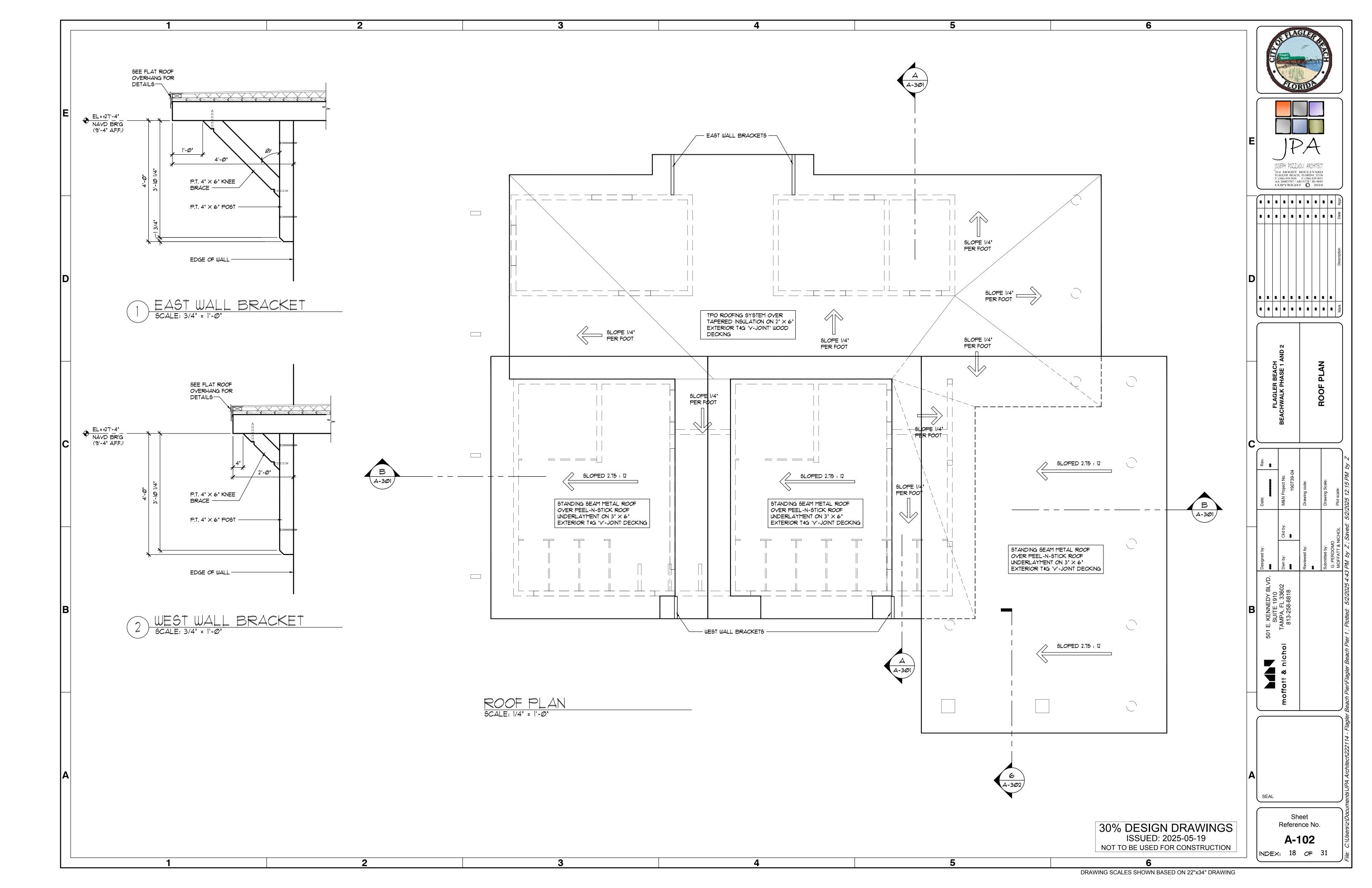


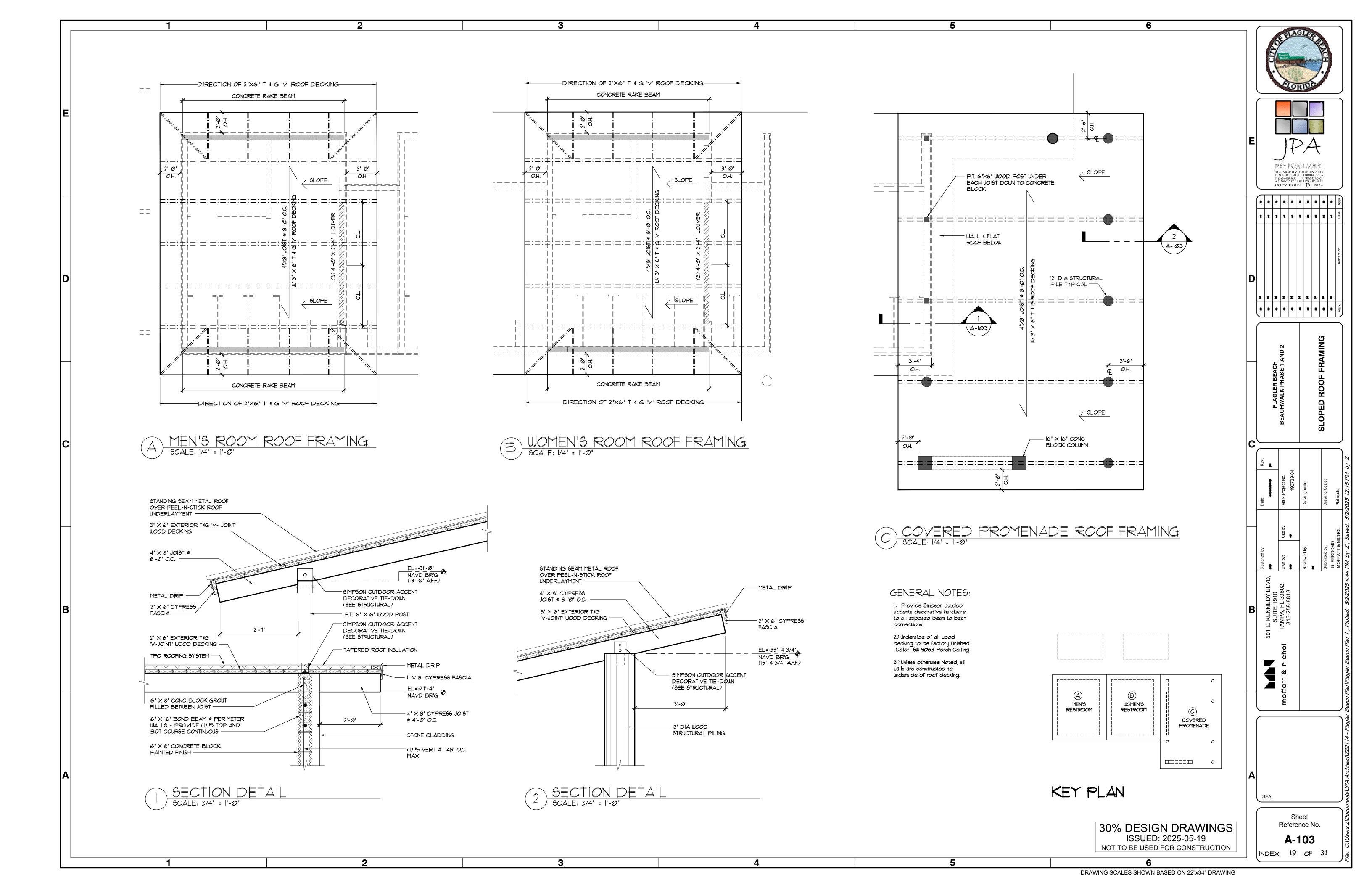


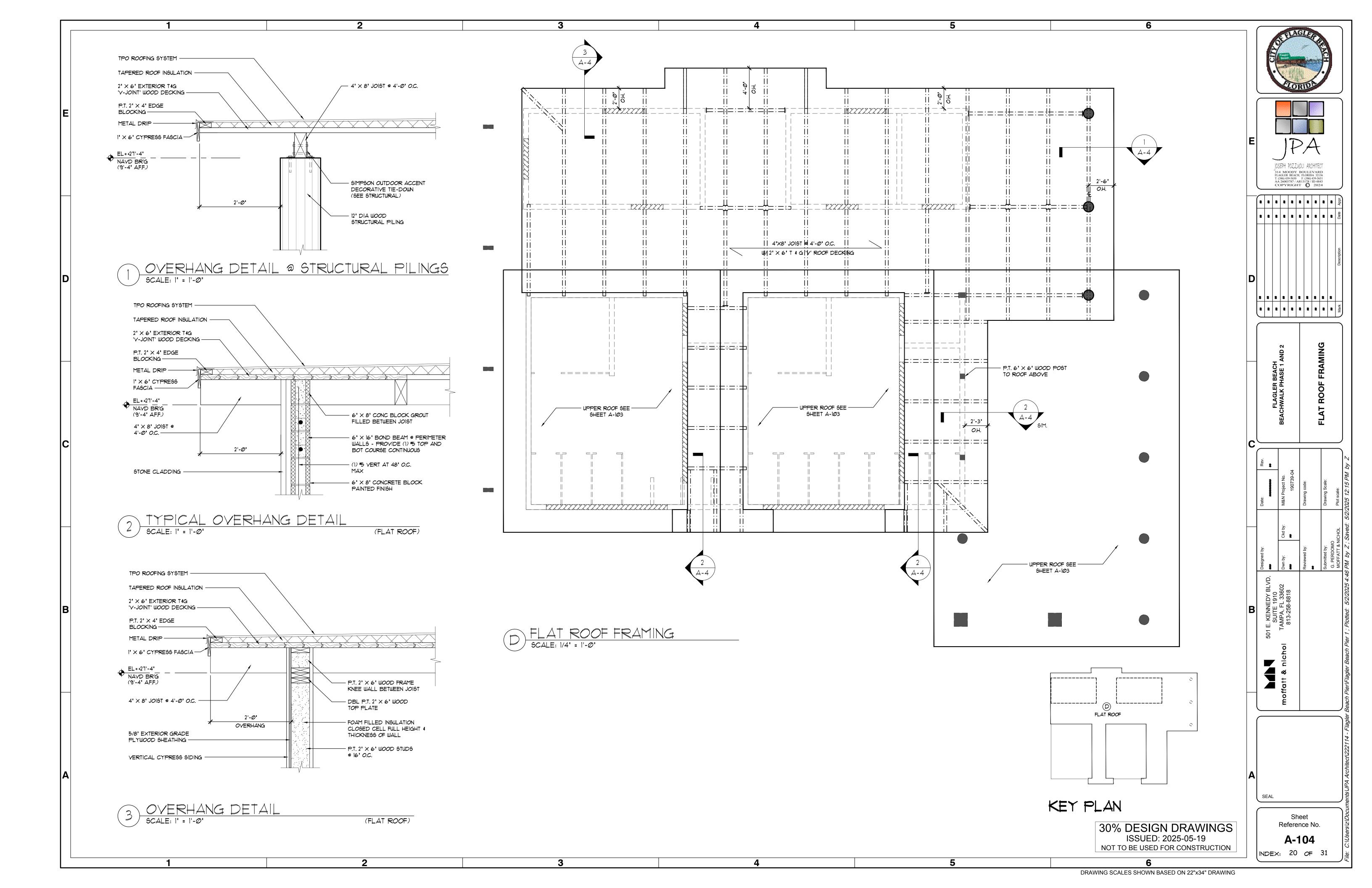


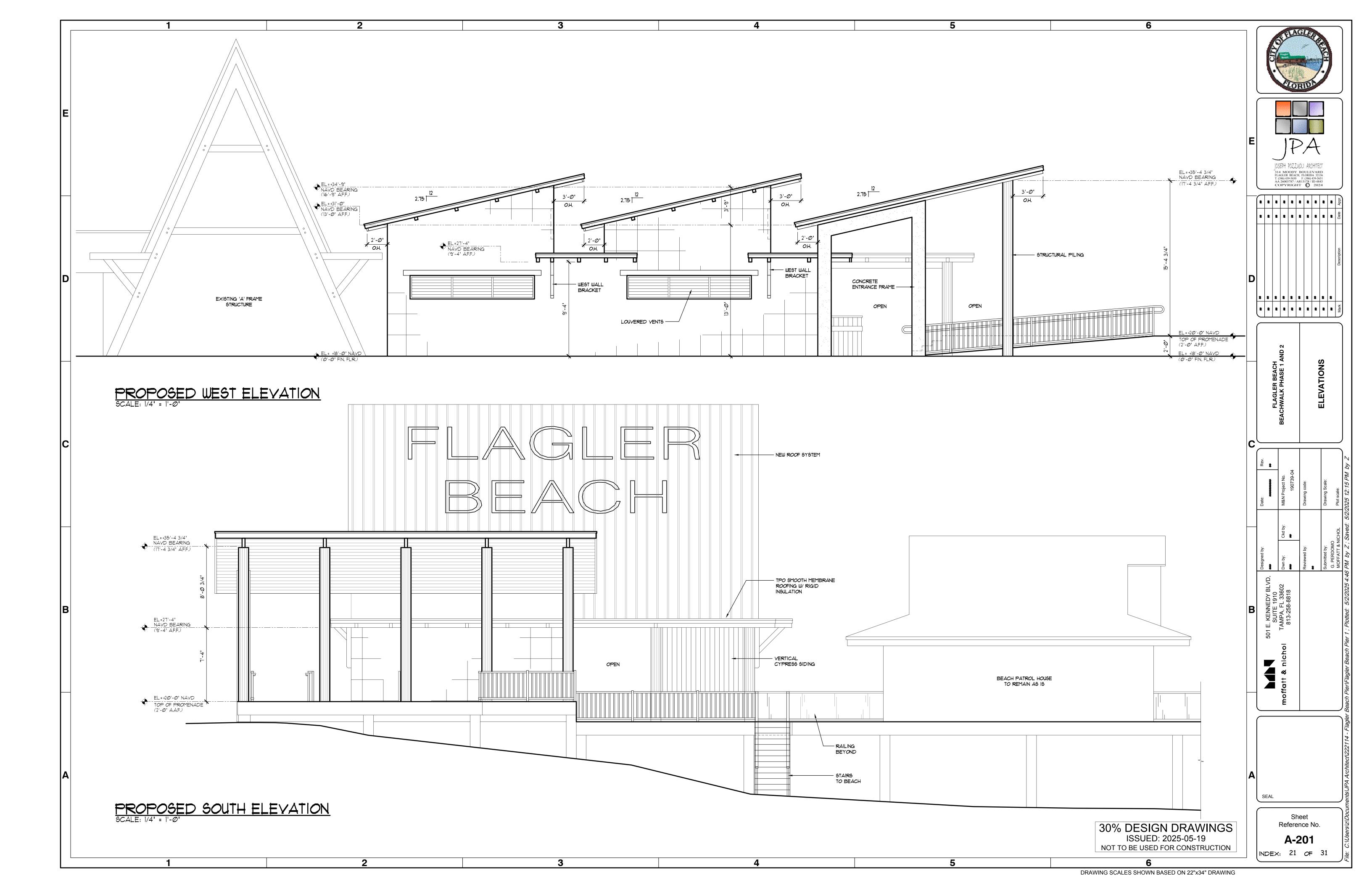


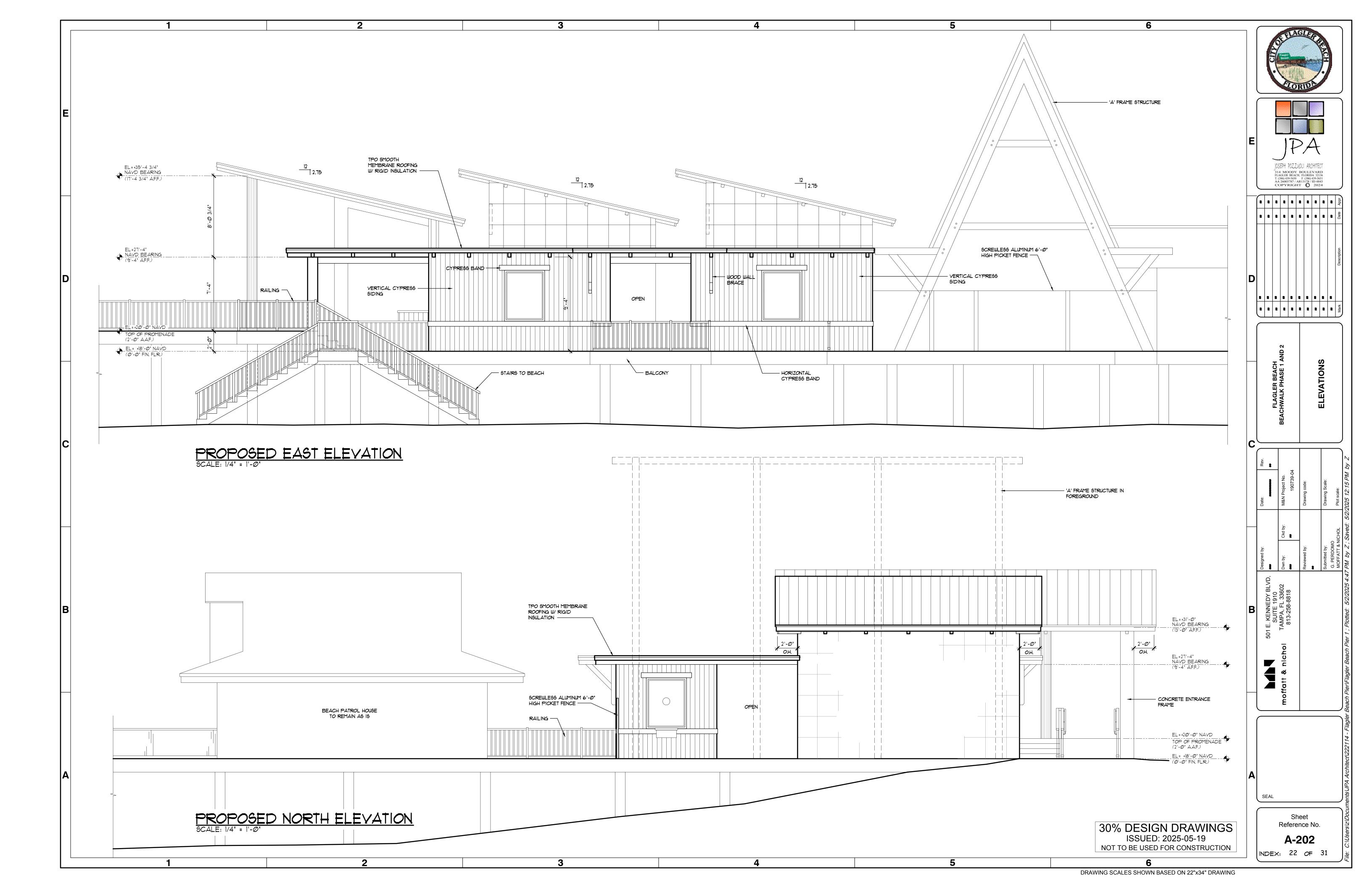


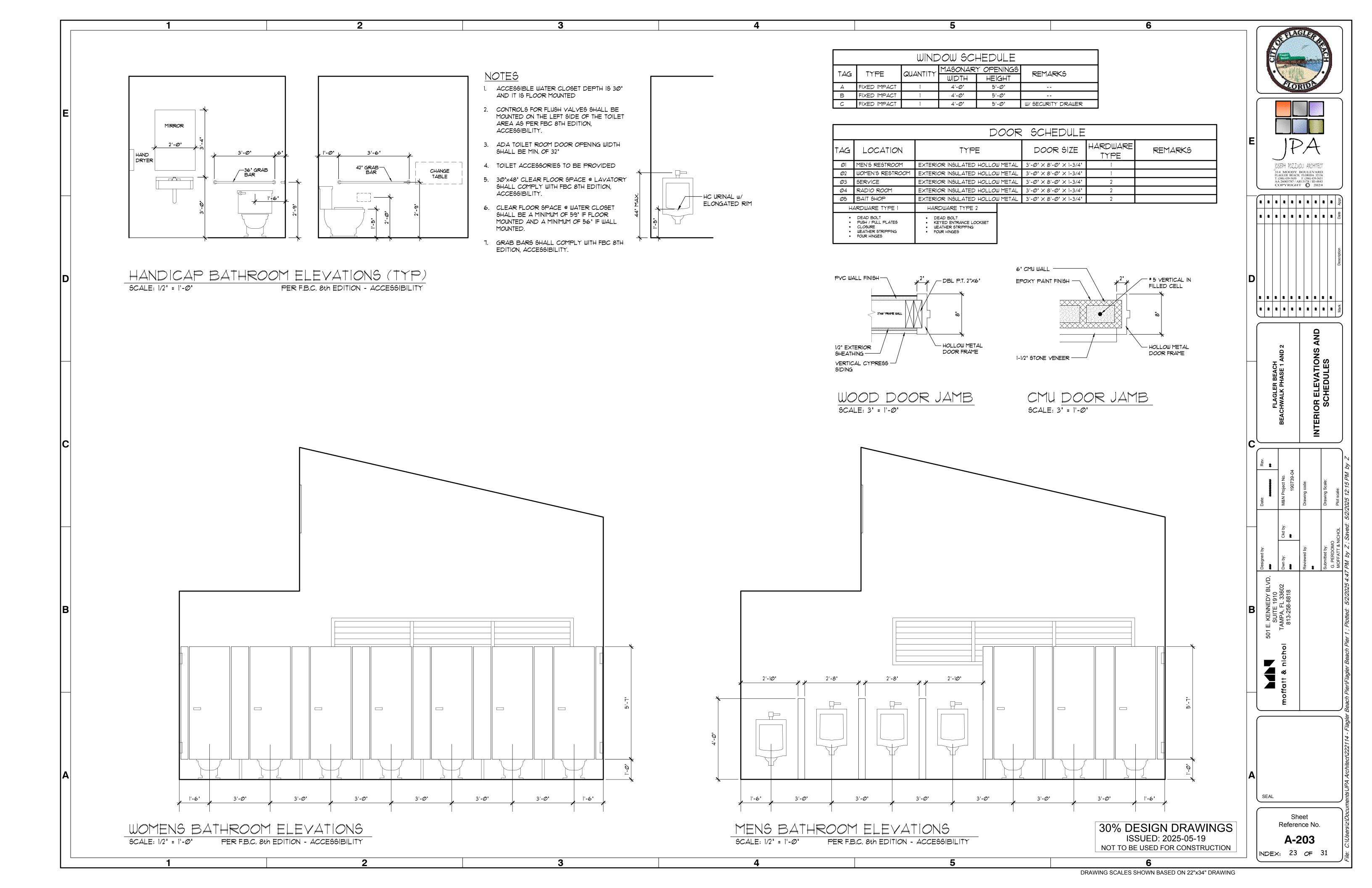


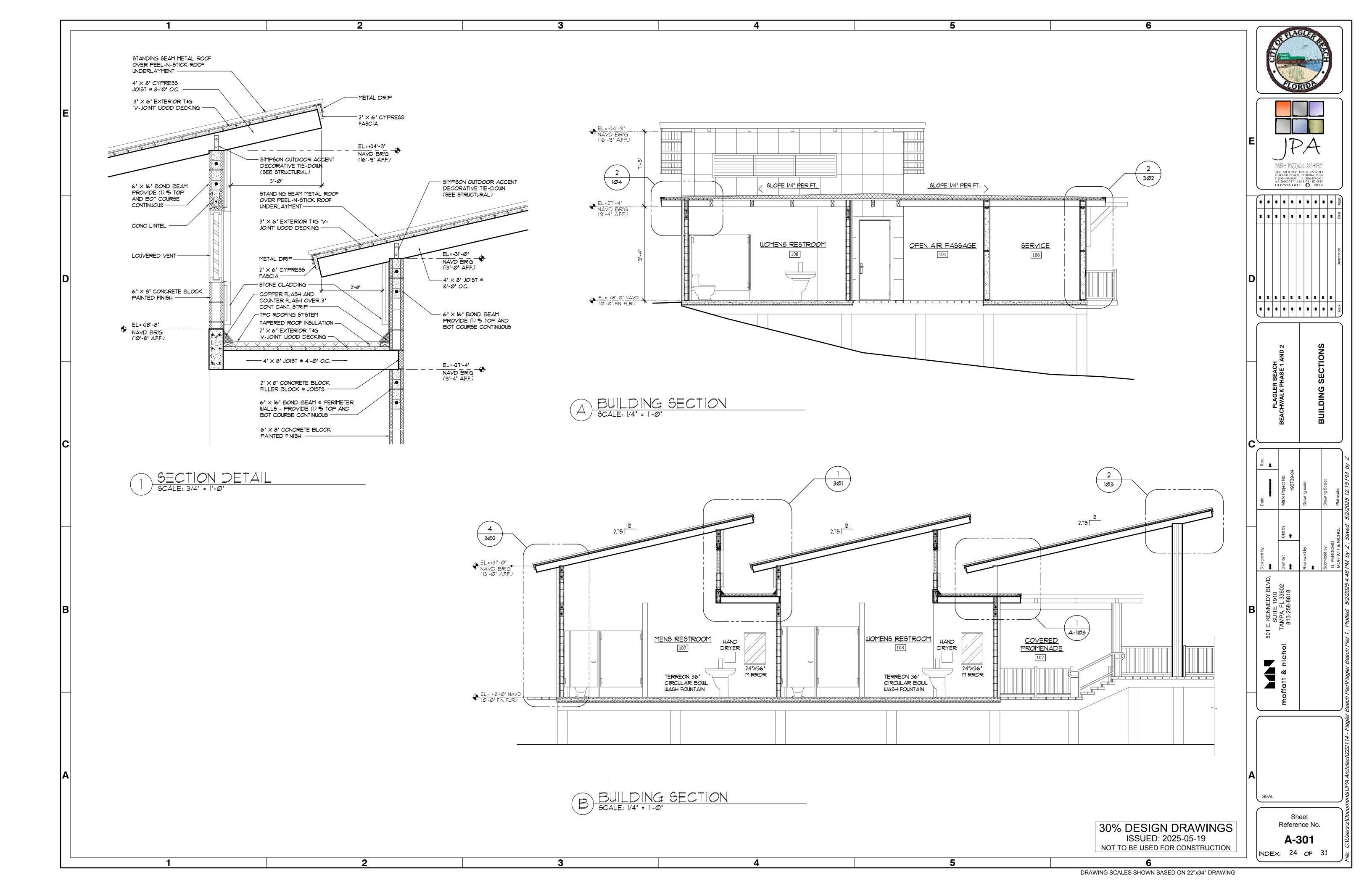


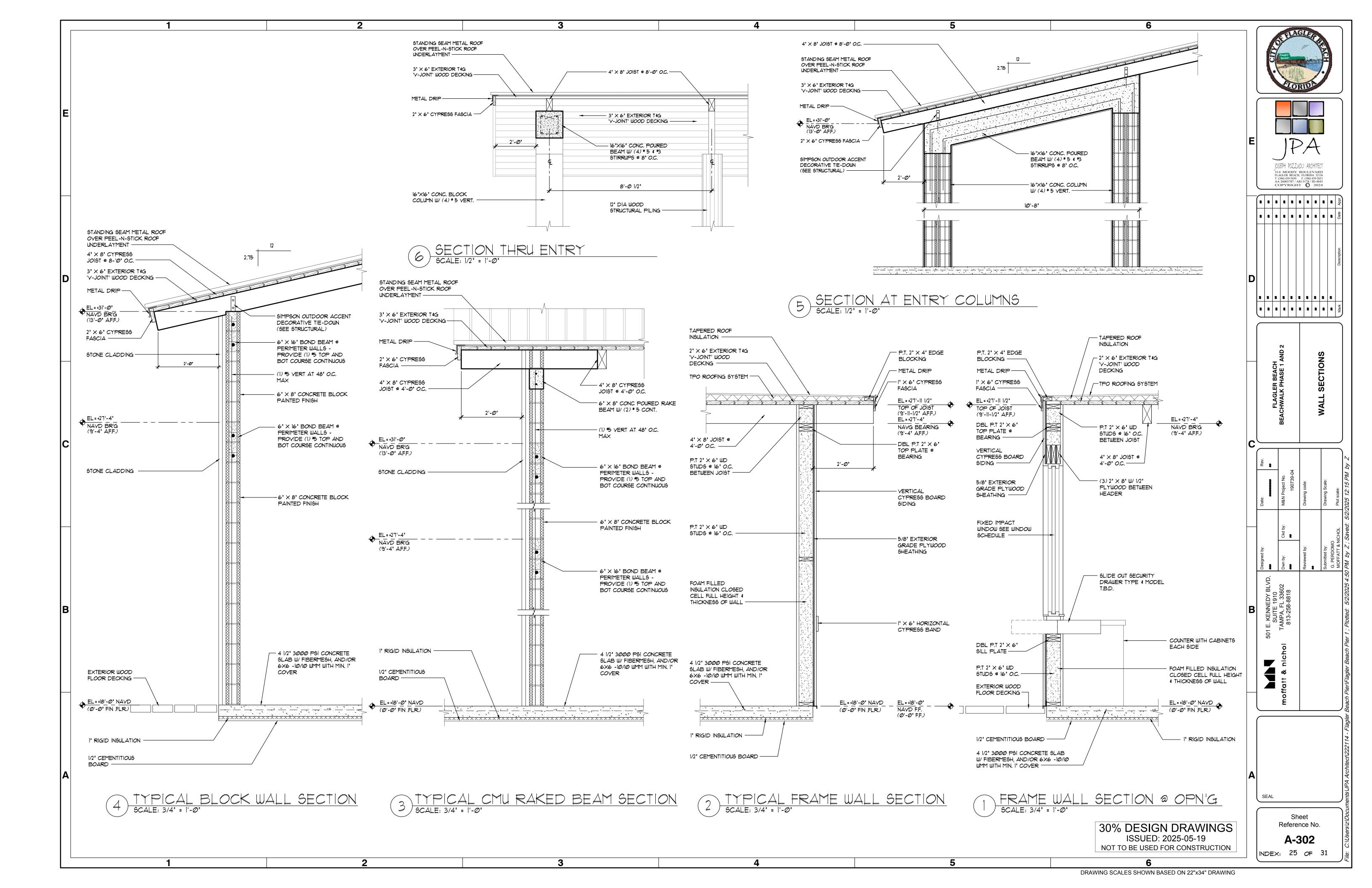


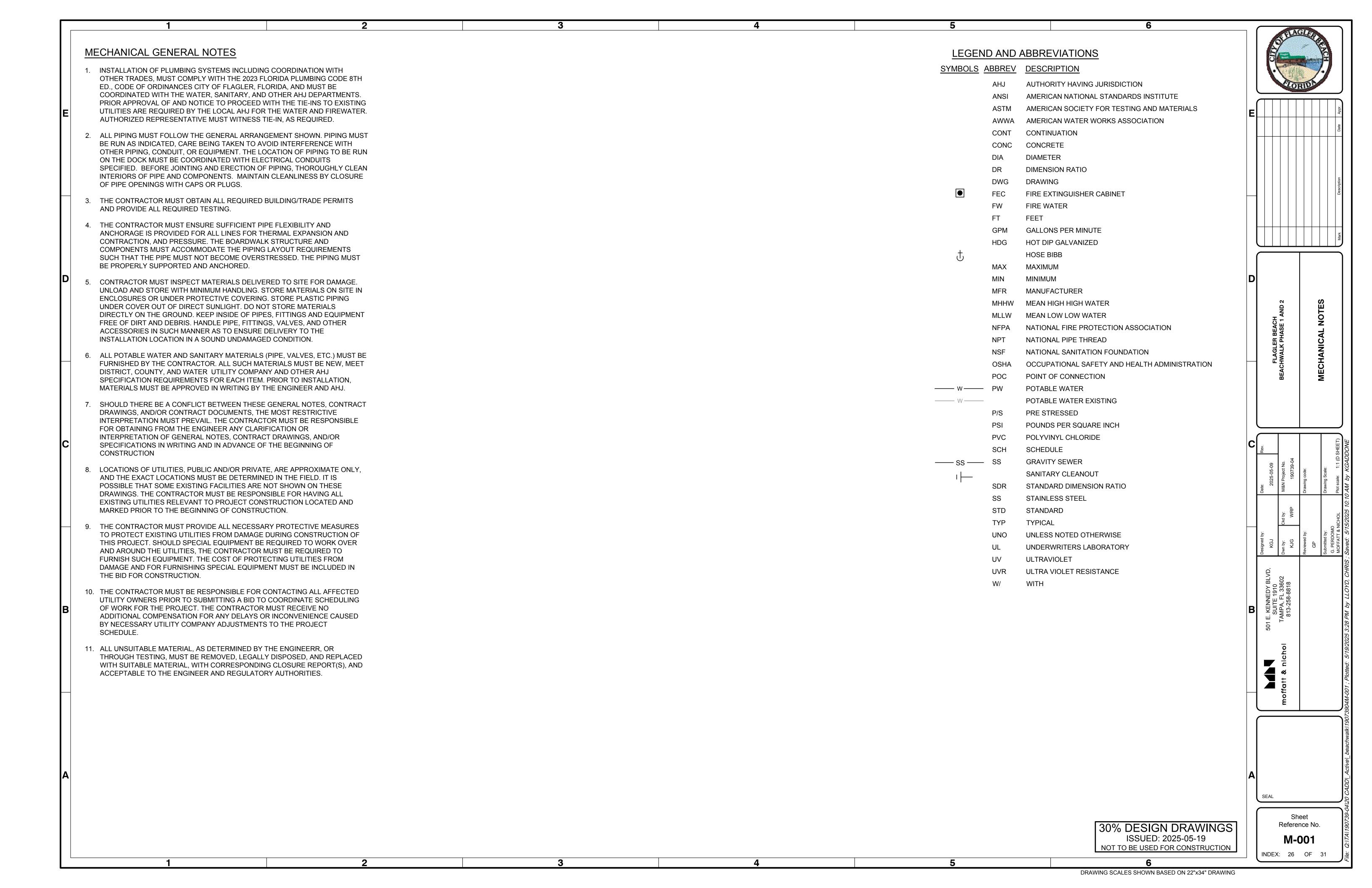


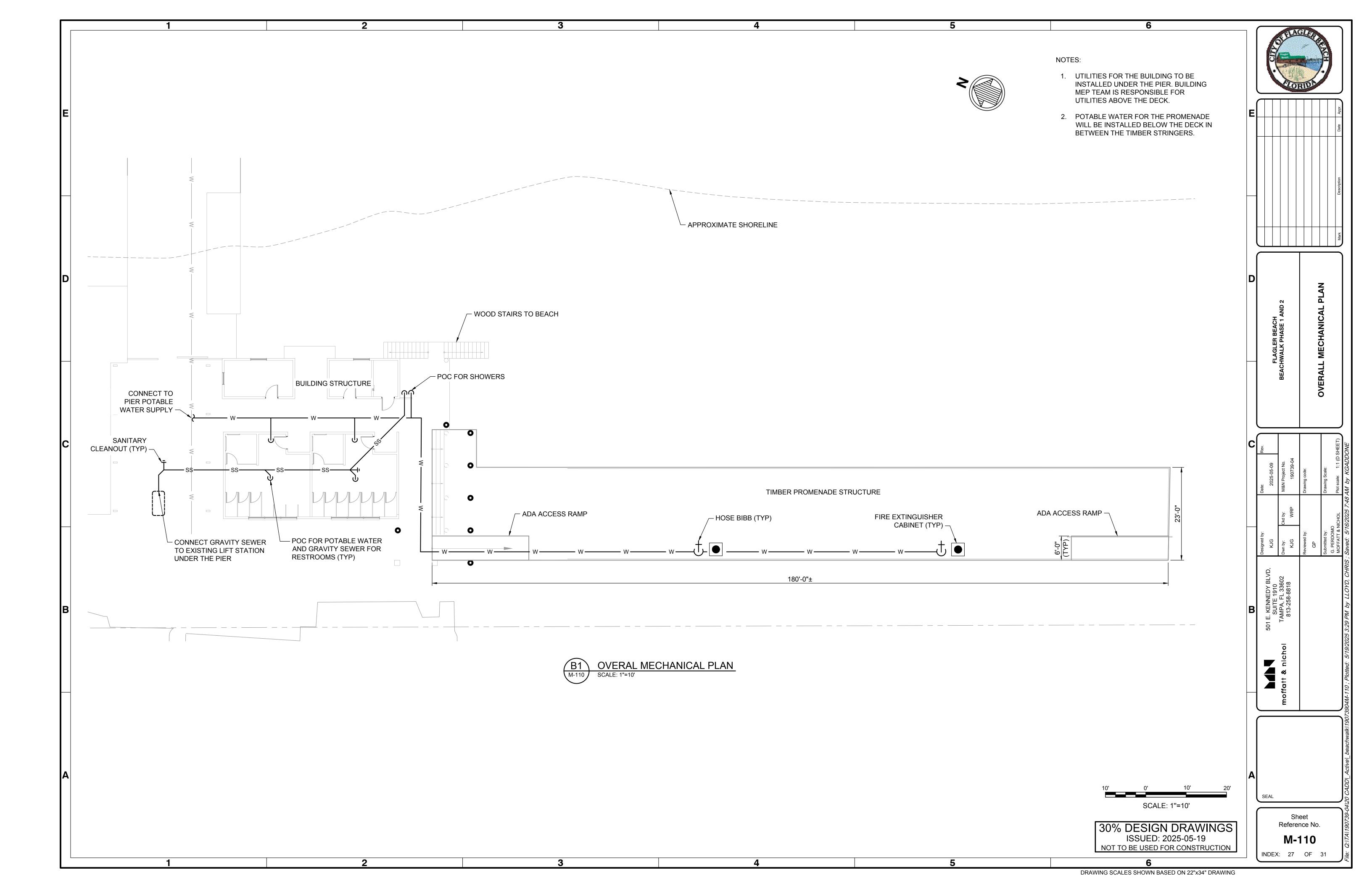




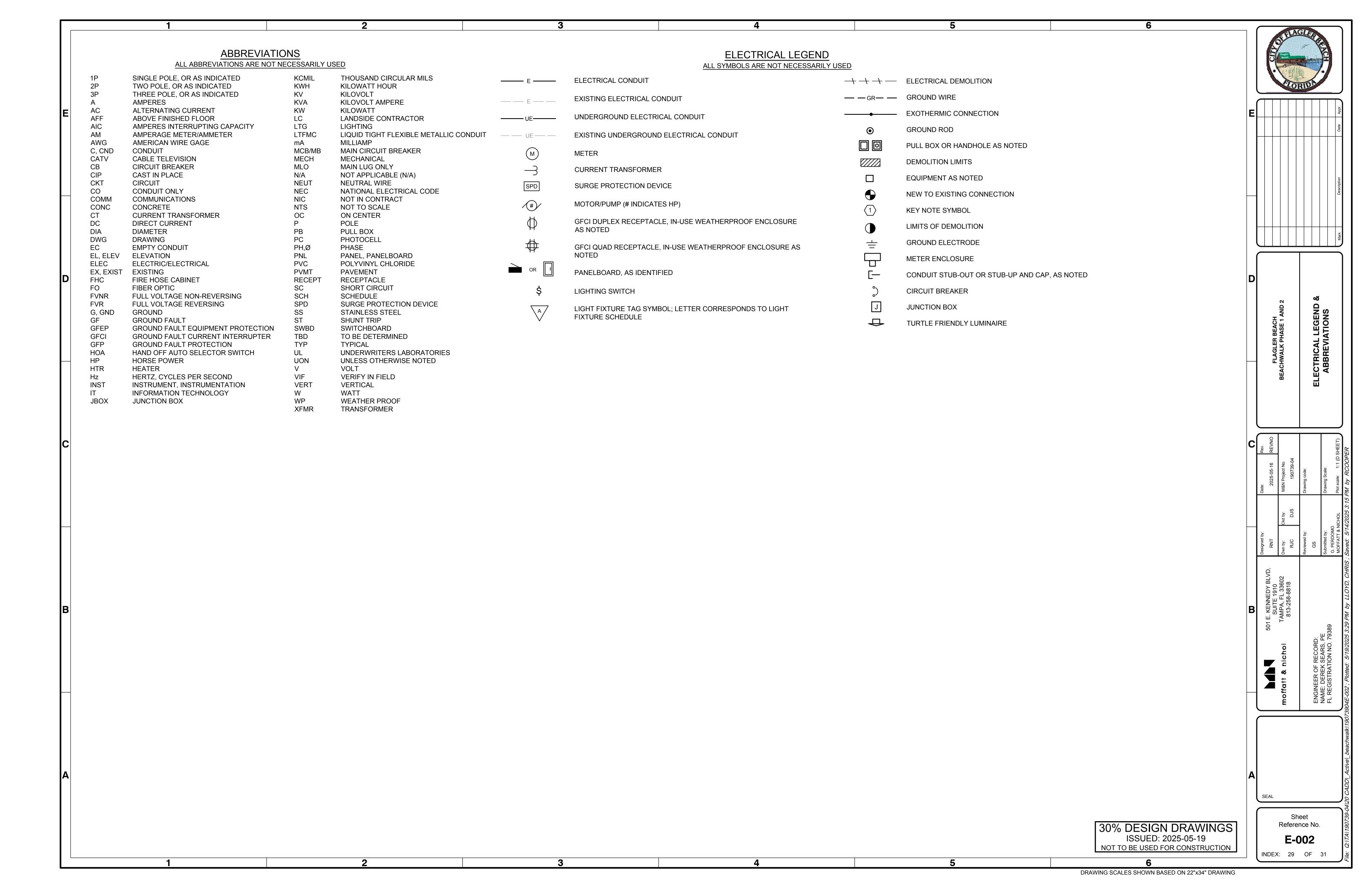


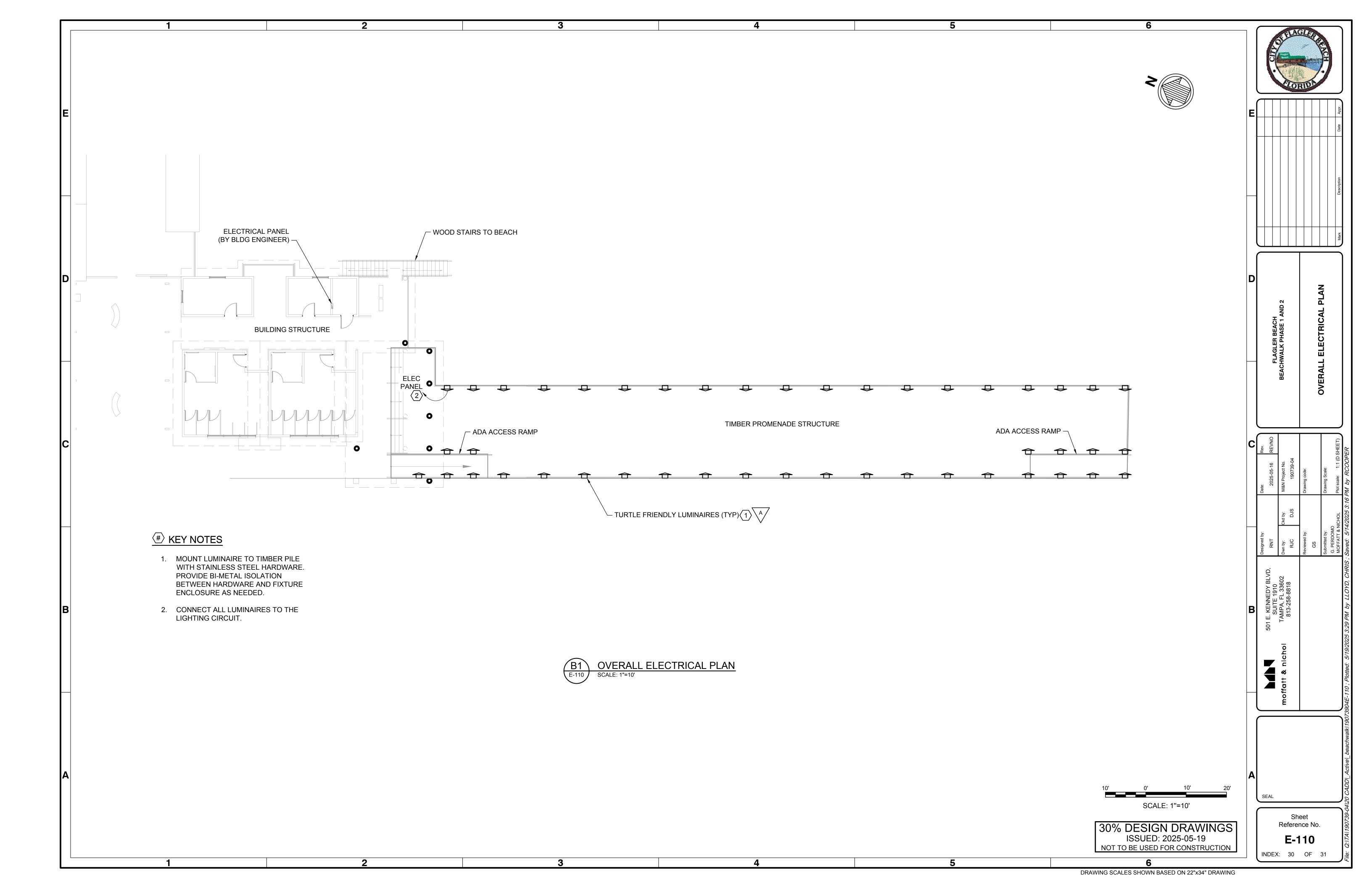


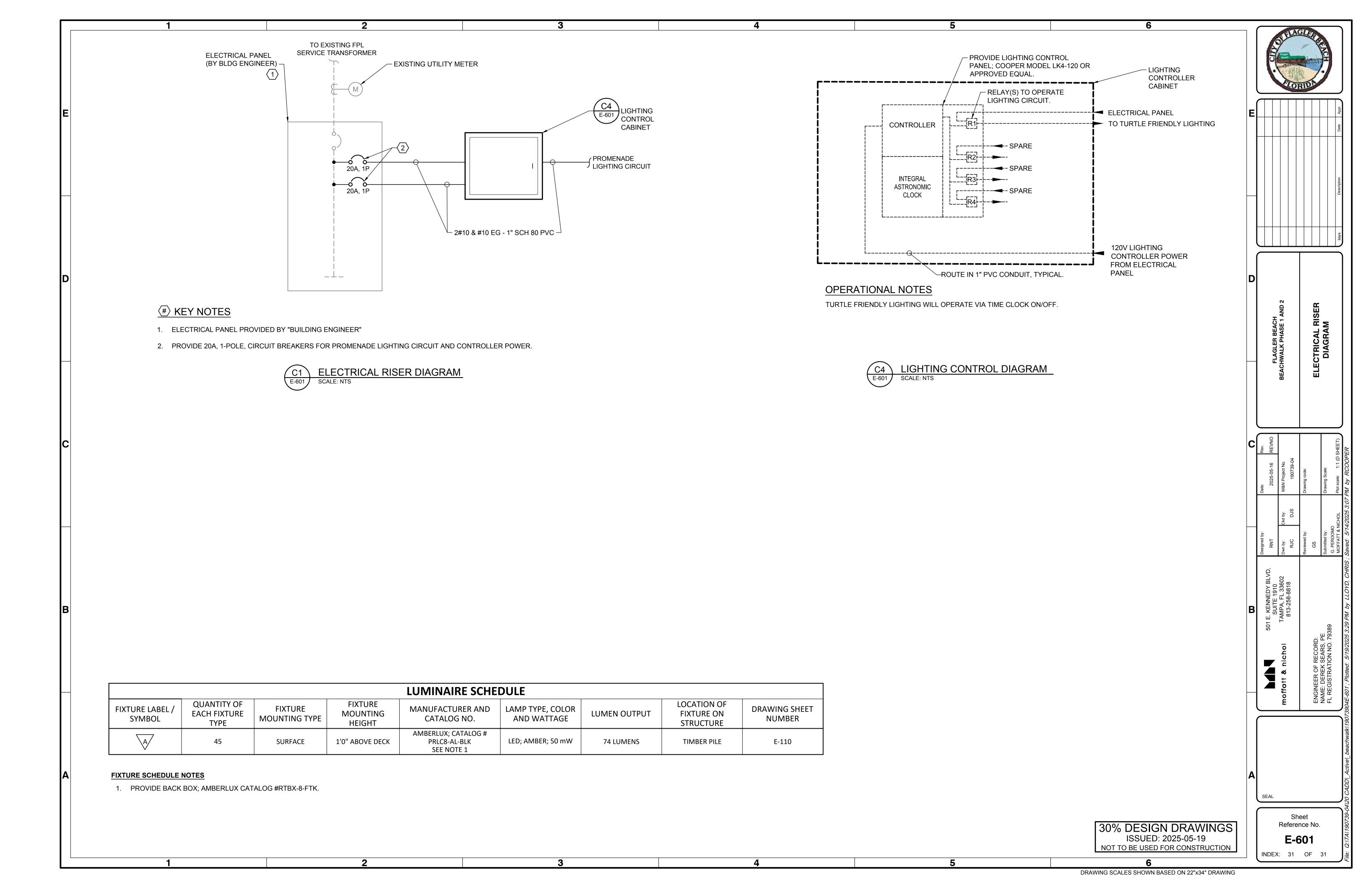




#### **ELECTRICAL GENERAL NOTES** 15. MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE AS SCHEDULED OR INDICATED ON DRAWINGS 1. UNLESS SPECIFICALLY NOTED TO BE EXISTING, ALL WORK AND MATERIAL SHOWN ARE NEW AND WHERE JOB CONDITIONS REQUIRE MOUNTING HEIGHTS DIFFERENT FROM THOSE SHOWN SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH ALL LABOR, (SPECIFICALLY IN MECHANICAL ROOMS AND PLATFORM AREAS) TO AVOID PIPES, EQUIPMENT, MATERIAL, EQUIPMENT, APPURTENANCES, SERVICES AND SUPERVISION FOR A COMPLETE STRUCTURAL FEATURES, DUCTWORK, OR OTHER SUCH CONDITIONS, SUCH AS CHANGE IN ELECTRICAL SYSTEM AS SHOWN ON THE DRAWING. ALL MATERIAL AND EQUIPMENT SHALL BE MOUNTING HEIGHT, SHALL BE DIRECTED OR REQUIRED WITHOUT ADDITIONAL COST TO THE WORKED INTO A COMPLETE, CONVENIENT, AND ECONOMICAL SYSTEM OR SYSTEMS. ALL OWNER. APPARATUS, PARTS, MATERIAL, AND ACCESSORIES WHICH ARE NECESSARY TO ACCOMPLISH THIS RESULT SHALL BE PROVIDED AND SHALL INCLUDE OTHER EQUIPMENT SELECTIONS TO 16. MOUNTING HEIGHTS SHALL BE TO THE CENTER OF THE DEVICE INDICATED, UNLESS OTHERWISE MEET THE PARAMETERS INDICATED. MANUFACTURER'S INSTRUCTIONS, WRITTEN OR NOTED. MOUNTING HEIGHTS OF DEVICES SHALL BE INSTALLED PER THE DRAWINGS AND IN OTHERWISE, SHALL BE FOLLOWED UNLESS SUPERSEDED HERE IN. ALL ITEMS SHOWN ARE NEW COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AND AMERICANS WITH DISABILITIES ACT AND SHALL BE PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY INDICATED OTHERWISE. ACCESSIBILITY GUIDELINES (ADA-AG). ALL ACCOMPLISHED RESULTS SHALL BE PROVIDED AT NO ADDITIONAL COST OR TIME TO THE OWNER AND NO ADDITIONAL COST TO THE CONTRACT AMOUNT INCLUDING ALL HARDWARE 17. ELECTRICAL EQUIPMENT/DEVICES SHALL BE MOUNTED 12" MIN. ABOVE PROMENADE DECK, UON WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. 18. WHEREVER A NEW TO EXISTING CONNECTION IS REQUIRED, PROVIDE EXTENSION RINGS SPLICES, WIRE, CONDUIT FITTINGS, AND ASSOCIATED APPURTENANCES. PERFORM ALL CUTTING 2. PROVIDE IS DEFINED TO MEAN THAT THE CONTRACTOR SHALL FURNISH, INSTALL, ADJUST, TEST AND PATCHING AS REQUIRED TO MAKE THE CONNECTIONS. AND INTEGRATE INTO A COMPLETE SYSTEM THE ITEM INDICATED. INCLUDING ALL HARDWARE WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL 19. PROVIDE A #12 (MIN.) COPPER TRACER WIRE WITH INSULATION THAT IS NOT WHITE, GRAY, OR SYSTEM. GREEN IN COLOR IN ALL NEW SPARE CONDUITS. THE TRACER WIRE MAY ALSO SERVE AS THE PULL CORD. 3. ALL WORK TO CONFORM TO THE LATEST EFFECTIVE PUBLICATIONS OF THE FOLLOWING STANDARDS CODES FTC FORM A PART OF THESE SPECIFICATIONS LION: 20. PAINT ALL SURFACE MOUNTED CONDUITS TO MATCH ADJACENT SURFACES, UNLESS OTHERWISE 2023 FLORIDA BUILDING CODE (FBC) 8TH EDITION SERVICE RULES AND REGULATIONS OF FLORIDA POWER & LIGHT 21. THE TERM "CONDUIT" AS USED ON THIS PROJECT DOES NOT IMPLY A QUANTITY OF ONE SINGLE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). CONDUIT - IT COULD ALSO MEAN MORE THAN ONE CONDUIT. SEE PLANS FOR CONDUIT AMERICAN PUBLIC WORKS ASSOCIATION (APWA) QUANTITIES. ASTM INTERNATIONAL (ASTM). BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI). 22. PROVIDE SCHEDULE 80 WHERE PVC CONDUIT IS PERMITTED AND EXPOSED, INCLUDING UNDER INTERNATIONAL BUILDING CODE (IBC). INTERNATIONAL FIRE CODES (IFC). INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE). **DEMOLITION** NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA). NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). 1. DRAWINGS ARE BASED ON EXISTING PLANS AND NON-DESTRUCTIVE FIELD INVESTIGATIONS. THE NATIONAL ELECTRICAL CODE (NEC); 2020 CONTRACTOR SHALL VISIT THE EXISTING SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA). CONDITIONS. THE CONTRACTOR SHALL EXAMINE RELATED DRAWINGS TO AVOID CONFLICTS. UNDERWRITERS LABORATORIES (UL). ILLUMINATING ENGINEERING SOCIETIES (IES). 2. PROVIDE ELECTRICAL DEMOLITION WORK AS INDICATED AND AS NECESSARY TO INSTALL NEW 4. THE CONTRACTOR SHALL CLOSELY STUDY THE CONSTRUCTION SEQUENCE AND NOTES AS WORK. ELECTRICAL CONTRACTOR SHALL REROUTE AND RECONNECT ANY CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH NEW CONSTRUCTION. OUTLINED. SLIGHT DEVIATIONS FROM CONFINED WORK SPACES MAY BE NECESSARY TO FULLY COMPLETE A CONSTRUCTION AREA AS OUTLINED ON THAT SHEET. THE DEVIATIONS SHALL BE 3. MATERIAL BEING REMOVED UNDER DEMOLITION (AND NOT TO BE RELOCATED) SHALL BECOME HELD TO A MINIMUM AND SHALL BE FULLY COORDINATED WITH THE OWNER. ALL SUCH THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED COMPLETELY FROM THE SITE, DEVIATIONS SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER. UON. 5. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING 4. CONTRACTOR SHALL EXERCISE CARE IN REMOVING DEMOLITION ITEMS AND SHALL REPAIR OR CONDITIONS. DURING THE VISIT AND/OR DURING CONSTRUCTION, IF ANY CONFLICTS ARISE IN REPLACE AT THEIR COST ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT BETWEEN EXISTING CONDITIONS AND NEW WORK. IT SHALL BE THE RESPONSIBILITY OF THE TO REMAIN. CONTRACTOR TO PROVIDE SKETCHES TO THE ENGINEER OF RECORD ON THE CORRECTIVE MEASURES OF THE CONFLICT PRIOR TO THE WORK BEING PERFORMED. THE ENGINEER SHALL 5. CONTRACTOR SHALL REMOVE STARTERS, DISCONNECT SWITCHES AND ASSOCIATED WIRE AND PROVIDE RECOMMENDATIONS BACK TO THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONDUIT FOR EQUIPMENT TO BE REMOVED OR RELOCATED BY OTHERS. CONTRACTOR TO EXECUTE THE SKETCHES WITH RECOMMENDATIONS. TO INCLUDE LABOR AND MATERIALS AT NO ADDITIONAL COST TIME TO THE OWNER AND NO ADDITIONAL COST TO THE EQUIPMENT AND DEVICES TO BE REMOVED AND NOT REINSTALLED SHALL HAVE ALL JUNCTION **CONTRACT AMOUNT** BOXES. WIRE. CONDUIT AND ASSOCIATED APPURTENANCES REMOVED BACK TO THE LAST LIVE JUNCTION BOX, PANELBOARD OR SOURCE. 6. CONDUIT ROUTINGS SHALL NOT INTERFERE WITH NEW OR EXISTING EQUIPMENT, PIPING, CONDUIT OR WORK AND SHALL NOT OBSTRUCT ACCESS TO ANY EQUIPMENT. 7. WHERE PANELBOARDS ARE REMOVED, REMOVE WIRE AND CONDUIT FOR ABANDONED CIRCUITS. 7. A SEPARATE EQUIPMENT GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUITS. THE EQUIPMENT GROUND CONDUCTOR SHALL BE CONNECTED TO ALL DEVICES AND EQUIPMENT DESIGN FLOOD ELEVATION SUCH THAT REMOVAL OF ANY DEVICE OR EQUIPMENT CANNOT INTERRUPT THE CONTINUITY OF THE EQUIPMENT GROUNDING CONDUCTOR TO AND FROM OTHER DEVICES OR EQUIPMENT. BASE FLOOD ELEVATION (BFE) IS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NATIONAL FLOOD INSURANCE PROGRAM AND AMERICAN SOCIETY OF ENGINEERS (ASCE) THE CONTRACTOR SHALL VERIFY LOCATION. SIZE. AND LOAD OF ALL EQUIPMENT BEING FURNISHED BY THE OTHERS BEFORE ROUGHING IN OF ANY CONDUIT. WHERE LOCATIONS OF EQUIPMENT ARE INSTALLED OTHER THAN INDICATED OR EQUIPMENT OF HIGHER OR LOWER 2. THE BFE IS SET TO 11.00' (NAVD). BFE BASED UPON FEMA NATIONAL FLOOD INSURANCE MAP: LOADS IS INSTALLED, THE SIZE OF STARTERS, CIRCUITRY, PROTECTIVE DEVICES, AND JUNE 2018 - AP #12035C0232E. ACCESSORIES SHALL BE ADJUSTED ACCORDINGLY AT NO ADDITIONAL COST TO THE OWNER. 3. THE DESIGN FLOOD ELEVATION (DFE) IS SET TO +18' (NAVD) PER M&N FLAGLER BEACH FISHING WIRE AND CONDUIT FOR EQUIPMENT LOADS SHALL BE CONTINUOUS IN SIZE AND COUNT FROM PIER COASTAL ENGINEERING AND METOCEAN REPORT DATED 02/08/2023, WHICH EXCEEDS THE THE SOURCE TO THE FINAL CONNECTION. SIZE AND COUNT SHALL BE AS INDICATED ON THE REQUIREMENTS FOR FLOOD DESIGN CLASS 2 PER ASCE 24-14. CIRCUIT HOMERUN, UNLESS OTHERWISE NOTED. 4. CONTRACTOR SHALL KEEP ALL NEW ELECTRICAL EQUIPMENT/DEVICES AT OR ABOVE THE DESIGN 10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING, CONDUIT, AND ASSOCIATED FLOOD ELEVATION (DFE). APPURTENANCE FOR EQUIPMENT PROVIDED BY OTHERS AND OTHER CONTRACTORS, UNLESS OTHERWISE NOTED. LIGHTING REQUIREMENTS 11. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AS A WHOLE. THE 1. LIGHTING CRITERIA PER: ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, CIRCUITRY, PROTECTIVE DEVICES, AND DEPARTMENT: DEPARTMENT OF ENVIRONMENTAL PROTECTION. ASSOCIATED APPURTENANCES FOR ALL EQUIPMENT REQUIRING POWER THAT IS NOT INDICATED DIVISION: BEACHES AND COASTAL SYSTEMS. ON THE ELECTRICAL DRAWINGS BUT INDICATED IN THE CONTRACT DOCUMENTS. THIS WORK CHAPTER: RULES AND PROCEDURES FOR COASTAL CONSTRUCTION AND EXCAVATION. SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. RULE: 62B-33.005 (13) - GENERAL CRITERIA FOR AREAWIDE AND INDIVIDUAL PERMITS 12. PROVIDE SINGLE POINT GFCI RECEPTACLES. GFCI RECEPTACLES SHALL NOT BE WIRED FOR 2. NO ADDITIONAL EXTERIOR LIGHTING, INCLUDING SECURITY LIGHTING, SHALL BE PROVIDED FEED THRU PROTECTION OF DOWNSTREAM RECEPTACLES. BEYOND REQUIREMENTS STATED BY RULE 62B-33.005 (13) (DEPARTMENT OF ENVIRONMENTAL PROTECTION). 13. PROVIDE GFCI AND GFEP CIRCUIT BREAKERS WHERE INDICATED. 14. PROVIDE SHUNT-TRIP CIRCUIT BREAKERS WHERE INDICATED PROVIDE TYPE WRITTEN DIRECTORIES IN PANELBOARDS COMPLETE WITH LOAD TYPE, AND LOCATIONS. Sheet Reference No. 30% DESIGN DRAWINGS ISSUED: 2025-05-19 E-001 NOT TO BE USED FOR CONSTRUCTION INDEX: 28 OF 31 DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING







# CITY OF FLAGLER BEACH BEACHWALK PHASE I AND II FLAGLER BEACH, FLORIDA

# **TECHNICAL SPECIFICATIONS**

# Prepared for:



| Rev No        | A           |  |  |
|---------------|-------------|--|--|
| Issue Purpose | 30% Design  |  |  |
| Date          | 20 May 2025 |  |  |
| By            | PJL         |  |  |
| Checked       | GAP         |  |  |
| Approved      | GAP         |  |  |

Prepared by:



# Contents

| Division 01 General                                 | 4 |
|---|---|
| 01 11 00 Summary of Work                            | 4 |
| 01 12 00 Project Meetings                           | 4 |
| 01 14 00 Work Restrictions                          | 4 |
| 01 32 00 Construction Schedules/ Schedule of Values | 4 |
| 01 33 00 Submittal Procedures                       | 4 |
| 01 77 00 Closeout Submittals                        | 4 |
| 01 78 23 Operations & Maintenance Data              | 4 |
| Division 02 Site Work                               | 4 |
| 02 41 00 Demolition                                 | 4 |
| Division 03 Concrete                                | 4 |
| 03 30 00 Cast-In-Place Concrete                     | 4 |
| 03 31 30 Marine Concrete                            | 4 |
| 03 45 33 Marine Precast Structural Concrete         | 4 |
| Division 04 Masonry                                 | 4 |
| 04 22 00 Concrete Masonry Units                     | 4 |
| 04 42 00 Exterior Stone Cladding                    |   |
| Division 05 Metals                                  | 4 |
| 05 50 13 Miscellaneous Metal Fabrications           | 4 |
| Division 06 Wood, Plastics and Composites           | 4 |
| 06 13 00 Timber Construction                        | 4 |
| 06 13 33 Timberwork                                 | 4 |
| 06 15 16 Wood Roof Decking                          | 4 |
| 06 15 33 Wood Decking                               | 4 |
| 06 16 00 Sheathing                                  | 4 |
| Division 07 Thermal and Moisture Protection         | 4 |
| 07 41 13 Standing Seam Metal Roof Panels            | 4 |
| 07 54 23 Thermoplastic-Polyolefin (TPO) Roofing     | 4 |
| Division 08 Openings                                | 5 |
| 08 11 13 Hollow Metal Doors and Frames              | 5 |
| 08 53 13 Vinyl Windows                              | 5 |
| 08 91 19 Fixed Louvers                              | 5 |
| Division 09 Finishes.                               | 5 |
| 09 91 23 Interior Painting                          | 5 |
| 09 96 33 High-Performance Coatings                  | 5 |

| Division 10 Specialties                            |  |
|--|--|
| 10 12 00 Display Cases                             |  |
| 10 21 13 Plastic-Laminate-Clad Toilet Compartments |  |
| 10 28 00 Toilet, Bath, Laundry Accessories         |  |
| 10 44 16 Fire Extinguishers                        |  |
| Division 12 Furnishings                            |  |
| 12 93 00 Site Furnishings                          |  |
| Division 26 Electrical                             |  |
| 26 27 29 Marine Electrical Work                    |  |
| 26 56 00 Exterior Lighting                         |  |
| Division 27 Communications                         |  |
| 27 41 00 Audio-Visual Systems                      |  |
| Division 31 Earthwork                              |  |
| 31 00 00 Earthwork                                 |  |
| 31 08 13 Dynamic Pile Load Testing                 |  |
| 31 62 13.20 Precast/Prestressed Concrete piles     |  |
| 31 62 19.13 Timber Marine Piles                    |  |
| Division 33 Utilities                              |  |
| 33 05 10 Marine Piping and Equipment Systems       |  |

## Division 01 General

01 11 00 Summary of Work

01 12 00 Project Meetings

01 14 00 Work Restrictions

01 32 00 Construction Schedules/ Schedule of Values

01 33 00 Submittal Procedures

01 77 00 Closeout Submittals

01 78 23 Operations & Maintenance Data

## Division 02 Site Work

02 41 00 Demolition

#### Division 03 Concrete

03 30 00 Cast-In-Place Concrete

03 31 30 Marine Concrete

03 45 33 Marine Precast Structural Concrete

# Division 04 Masonry

04 22 00 Concrete Masonry Units

04 42 00 Exterior Stone Cladding

#### Division 05 Metals

05 50 13 Miscellaneous Metal Fabrications

# Division 06 Wood, Plastics and Composites

06 13 00 Timber Construction

06 13 33 Timberwork

06 15 16 Wood Roof Decking

06 15 33 Wood Decking

06 16 00 Sheathing

## Division 07 Thermal and Moisture Protection

07 41 13 Standing Seam Metal Roof Panels

07 54 23 Thermoplastic-Polyolefin (TPO) Roofing

# Division 08 Openings

08 11 13 Hollow Metal Doors and Frames

08 53 13 Vinyl Windows

08 91 19 Fixed Louvers

## Division 09 Finishes

09 91 23 Interior Painting

09 96 33 High-Performance Coatings

# Division 10 Specialties

10 12 00 Display Cases

10 21 13 Plastic-Laminate-Clad Toilet Compartments

10 28 00 Toilet, Bath, Laundry Accessories

10 44 16 Fire Extinguishers

# Division 12 Furnishings

12 93 00 Site Furnishings

## Division 26 Electrical

26 27 29 Marine Electrical Work

26 56 00 Exterior Lighting

## **Division 27 Communications**

27 41 00 Audio-Visual Systems

#### Division 31 Earthwork

31 00 00 Earthwork

31 08 13 Dynamic Pile Load Testing

31 62 13.20 Precast/Prestressed Concrete piles

31 62 19.13 Timber Marine Piles

## Division 33 Utilities

33 05 10 Marine Piping and Equipment Systems