

STRUCTURAL ABBREVIATIONS

GENERAL STRUCTURAL NOTES

- IN CASE OF ANY CONFLICTING INFORMATION BETWEEN THESE SPECS / DRAWINGS & LOCAL CODE APPLICATIONS OR ANY OTHER CONTROLLING AUTHORITY, THE MOST STRINGENT CONDITION SHALL APPLY.
- STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE-2023 8th EDITION & ASCE 7-22 AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.
 - VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE A/E OF ANY DISCREPANCIES OR INCONSISTENCIES.
 - DO NOT SCALE DRAWINGS
 - SEE ARCHITECTURAL, ELECTRICAL AND PLUMBING REQUIREMENTS FOR MISCELLANEOUS WOOD & STEEL MEMBERS & CONNECTIONS NOT SHOWN HEREIN.
 - SEE ARCHITECTURAL DRAWINGS FOR ANCHORED, SUPPORTED AND EMBEDDED ITEMS WHICH AFFECT THE STRUCTURAL WORK. VERIFY DETAILS AND DIMENSIONS WITH ITEMS PURCHASED.
 - COORDINATE SIZES AND LOCATIONS OF OPENINGS IN WALLS WITH, ARCHITECTURAL DRAWINGS.
 - NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD.
 - REFERENCE W/ SLAB ON GRADE "FIRST FLOOR", FINISH FLOOR EQUAL TO 0'-0" WHERE NOTED. VERIFY ALL ACTUAL ELEVATIONS W/ CIVIL DRAWINGS.
 - NO CHANGES IN CONSTRUCTION FROM THAT SHOWN IN THE SHOP DRAWINGS REVIEWED BY THE A/E SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
 - SUBMITTALS SHALL CONFORM TO REQUIREMENTS OF CONTRACT DOCUMENTS, AND SHALL BE CHECKED AND MARKED "APPROVED" BY CONTRACTOR PRIOR TO SUBMITTAL. NON-CONFORMING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
 - SHOP DRAWINGS SHALL NOT BE REPRINTS OF CONTRACT DOCUMENTS.

FOUNDATIONS

- FOUNDATIONS WERE DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY PRESSURE OF 2000 P.S.F. NO FOUNDATION REPORT WAS AVAILABLE FOR THE FOUNDATION DESIGN. IF SUCH REPORT IS TO BE PERFORMED AND CALLS FOR LOWER BEARING PRESSURE, THE ENGINEER OF RECORD RESERVES THE RIGHT TO UPSIZE FOUNDATIONS ACCORDINGLY

EXCAVATION

- EXCAVATE AS REQUIRED FOR FOUNDING OF FOOTINGS ON UNDISTURBED SOIL OF 2,000 PSF MINIMUM BEARING CAPACITY, RESPECTIVELY PER GEOTECNICAL SOILS REPORT.
- MAINTAIN ALL EXCAVATIONS FREE OF WATER CONTINUOUSLY.
- BACKFILL BEHIND EXTERIOR WALLS WITH COMPACTED GRANULAR FILL PLACED IN 12" LOOSE LIFTS COMPACTED TO 95% OF MINIMUM DENSITY.
- BACKFILL ON INSIDE OF BUILDING WITH COMPACTED GRANULAR FILL PLACED IN 12" LOOSE LIFTS. COMPACTED SOILS BELOW FOUNDATIONS AND SLABS SHALL BE TESTED TO A MINIMUM OF 95% COMPACTION OF MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557 AND TESTED IN LIFTS NOT TO EXCEED 12 INCHES
- TEST BORING SOIL REPORT TO BE FURNISHED BY OWNER. NEITHER OWNER, ARCHITECT, NOR ENGINEER ASSUMES RESPONSIBILITY FOR ITS ACCURACY.

CONCRETE UNIT MASONRY (CMU)

- CONFORM TO ACI BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES ACI 530/ASCE 5 & TO ACI SPECIFICATIONS FOR MASONRY ACI 530.1/ASCE LATEST EDITIONS REFERENCED IN BLDG. CODE
- MORTAR SHALL BE TYPE M OR S.
- REINFORCE WALLS WITH LADDER TYPE REINFORCEMENT EQUAL TO STANDARD DUR-O-WAL IN BED JOINTS 9-GA 4 WIRE SYSTEM SERIES 200 OR APPROVED EQUAL AT 16" O.C. MEASURED VERTICALLY U.N.O. PLACE PER MFR. RECOMMENDATIONS. EXTEND INTO PILASTERS, OR PROVIDE DOVETAIL ANCHORS TO SECURE MASONRY TO CONCRETE COLUMNS. IF APPLICABLE
- WHERE CONCRETE BEAMS ARE INSTALLED IN CONCRETE BLOCK WALL, SUPPORT CONCRETE WITH 6" WIDE CONTINUOUS STRIPS OF 1/8 SQUARE MESH SOFFIT SCREENING OF PUR-O-STOP OR EQUAL CENTERED OVER BLOCK WORK. USE OF ROOFING FELT STRIPS WILL NOT BE PERMITTED.
- PROVIDE CONCRETE MASONRY BLOCK WALL GROUTED AND REINFORCED PER FOUNDATION PLAN DOWELED INTO BEAM ABOVE OR FOOTING BELOW. BAR SHALL BE CONTINUOUS AND LOCATED IN CENTER OF CELL.
- GROUT FOR FILLED CELLS SHALL CONFORM TO ASTM C476, AND SHALL HAVE A SLUMP OF BETWEEN 8" AND 10". PROVIDE CLEANOUTS. PUMP 4'-0" MAX. GROUT LIFTS WITH 60 MINUTE DELAY BETWEEN LIFTS. GROUT COMPRESSIVE STRENGTH SHALL BE 3000 PSI AT 28 DAYS.
- AT FILLED CELLS, LAY UNITS WITH FULL BED JOINTS AROUND CELLS.
- NET AREA COMPRESSIVE STRENGTH OF MASONRY (f_m) SHALL BE AT LEAST 2000 PSI.
- ALL BAR SPLICES IN MASONRY SHALL BE 48 BAR DIAMETER TYP. & HOOKS 12 BAR DIA. UNO.
- SPECIAL INSPECTION IN ALL CMU WORK IS REQ'D BY A QUALIFIED INSPECTOR AT OWNER'S EXPENSE.

GENERAL WORKMANSHIP NOTES

- BRACE ALL CONSTRUCTION AGAINST GRAVITY AND LATERAL LOADS UNTIL STRUCTURE IS COMPLETE
 - STRUCTURAL CONTRACTORS TO COORDINATE WITH ALL OTHER TRADES.
 - ALL TRADES TO SUBMIT SHOP DRAWING SET FOR REVIEW BEFORE ERECTION.
- EPOXY NOTE:
- BLOW OUT HOLES WITH COMPRESSED AIR AND USE NYLON BRUSH PER MANUFACTURER'S RECOMMENDATIONS TO REMOVE COMPLETELY ALL DUST & CHIPS BEFORE APPLYING EPOXY OR ADHESIVE. ALL EPOXY OR ADHESIVE WORK MUST BE INSPECTED FOR VERIFICATION.

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO ERECTION OF ANY STRUCTURAL MEMBER.
- THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE OF EXISTING PIPES, UTILITIES, AND POWER LINES, ETC., AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING OF ALL EXISTING STRUCTURAL MEMBERS AS REQUIRED FOR STRUCTURAL STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.

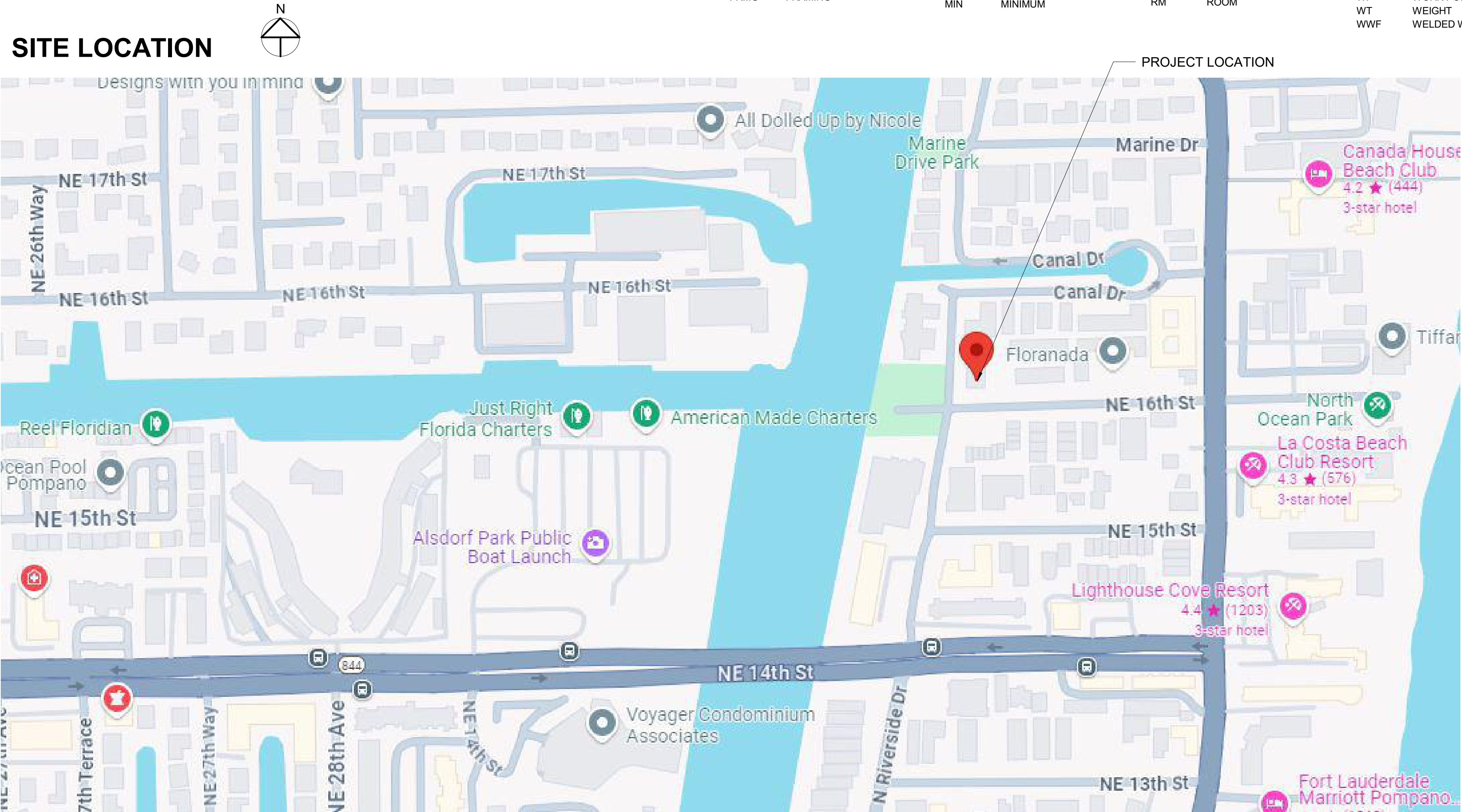
STRUCTURAL STEEL

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS-ALLOWABLE STRESS DESIGN, LATEST ED.
- MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED:

W BEAMS	ASTM A992
STRUCTURAL STEEL PLATED AND SHAPES	ASTM A36
THREADED ROD ANCHOR BOLTS	ASTM F1554 GRADE 36
OTHER ANCHOR BOLTS	ASTM A307
PIPE SECTIONS	ASTM A53, GRADE B.
TUBE SECTIONS	ASTM A500, GRADE B.
- WELDING, UNLESS OTHERWISE NOTED (U.O.N.):
 - ALL SHOP AND FIELD WELDING SHALL CONFORM TO AWS STRUCTURAL WELDING CODE, ANSI/AWS D1.1
 - ALL WELDING IN THE SHOP AND IN THE FIELD SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY.
 - WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN.
- CONNECTIONS, UNLESS OTHER WISE NOTED (U.O.N.):
 - TIGHTEN BOLTS BY THE "SNUG-TIGHT" METHOD.
 - FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIA. MIN. HIGH-STRENGTH BEARING TYPE BOLTS (A325N) WITH THREADS ASSUMED TO BE INCLUDED IN SHEAR PLANES.
 - CONNECTIONS NOT FULLY DETAILED IN PLANS SHALL BE DESIGNED BY CONTRACTOR. ACCORDING TO AISC STANDARDS. IF FORCES ARE NOT PRESENTED IN PLAN OR DIRECTLY IMPLIED THEREIN, CONNECTIONS SHALL BE BASED ON THE FULL CAPACITY OF THE SECTION (S)-EXCEPT THAT STEEL CONNECTIONS FOR BEAMS SIMPLY SUPPORTED AND UNIFORMLY LOADED MAY BE BASED ON 55% OF THE AISC UNIFORM LOAD CARRYING CAPACITY OF THE BEAMS.
 - CONNECTIONS SHALL BE DOUBLE ANGLE OR STANDARD SHEAR TAB TYPE U.O.N. SINGLE ANGLE AND EXTENDED SHEAR TAB CONNECTIONS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED AS SUCH HEREIN.
- SHOP DRAWINGS (SEE SUBMITTALS) SHALL INCLUDE COMPLETE DETAILING OF STRUCTURAL STEEL MEMBERS AND CONNECTIONS AS REQUIRED TO FABRICATE AND ERECT ALL STRUCTURAL STEEL FRAMING.
- GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 6000 PSI WHEN BEARING ON 3000 PSI CONCRETE, AND 8000 PSI WHEN BEARING ON 4000 PSI CONCRETE.
- ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED OR OTHERWISE PROTECTED.
- ALL STEEL EXPOSED TO SOIL SHALL BE ENCASED IN CONCRETE OR OTHERWISE PROTECTED.

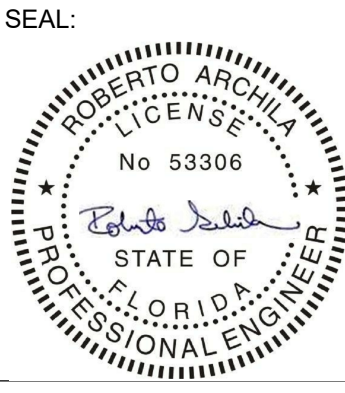
& (N) 255 @ AB ABC	AND NEW ANCHOR BOLT AGGREGATE BASE COURSE	CLR CMU COL COMP CONC CONN CONST CONST JT CONT	CLEAR/CLEARANCE CONCRETE MASONRY UNIT COLUMN COMPRESSIBLE CONCRETE CONNECTION CONSTRUCTION CONSTRUCTION JT CONTINUOUS/CONTINUATION	FS FT FTG GA GALV GC	FAR SIDE FOOT/FEET FOOTING GAUGE GALVANIZE(D) GENERAL GENERAL CONTRACTOR GENERAL GOVERNMENT HANGAR COLUMN HEADER HORIZONTAL HIGH POINT HIGH POINT HEADED STUD HEADED STUD ANCHOR HIGH STRENGTH BOLTS HEIGHT HEATING, VENTILATION & AIR CONDITIONING INSIDE DIAMETER INVERT ELEVATION INSIDE FACE INCH INCLUDING INFORMATION INSPECTION INTERIOR INTERM JOINT KIPS KNEE BRACE LENGTH POUNDS LINEAR FEET LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOCATION LONG LEG LONGITUDINAL LOW POINT LEFT LEVEL, LEVELING LIGHT WEIGHT LIGHT WEIGHT CONCRETE	MISC MK MPH MS MTL MU N NA NF NIC NO NS NTS NW NWC	MISCELLANEOUS MARK MILES PER HOUR MIDDLE STRAP METAL MECHANICAL UNIT NORTH NOT APPLICABLE NEAR FACE NOT IN CONTRACT NUMBER NEAR SIDE NOT TO SCALE NORMAL WEIGHT NORMAL WEIGHT CONCRETE ON CENTER OUTSIDE DIAMETER OF OWNER FURNISHED AND INSTALLED OPPOSITE HAND OPENING OPPOSITE ORIGINAL OWNER'S TECHNICAL REPRESENTATIVE OPEN WEB JOIST PARALLEL PARTITION/PARTIAL PC PRECAST PRECAST CONCRETE INSTITUTE PIECES PERPENDICULAR POUR JOINT PLATE PLACES POUNDS PER LINEAR FOOT PANEL PROJECTION POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PRESSURE TREATED PAVEMENT QUANTITY R RADIUS, RISER, REMAINDER REFERENCE REINFORCING REQUIRED RETAINING REVISED / REVISION ROOM	RO RT RTU S SCHE SDI SEC SECT SF SIM SJ SMS SOG SPCS SQ STD STIFF STIRRUPS STL STR SUPT SW SYM SYP	ROUGH OPENING RIGHT ROOF TOP UNIT SOUTH SCHEDULE STEEL DECK INSTITUTE SECURITY SECTION SQUARE FOOT/FEET SIMILAR SHRINKAGE JOINT SHEET METAL SCREWS SLAB ON GRADE SPACES SQUARE STANDARD STIFFENER STEEL STRUCTURAL SUPPORT SHORT WAY SYMMETRICAL SYMMETRY SOUTHERN YELLOW PINE TOP TOP AND BOTTOM TOP OF TO BE DECIDED TEMPERATURE THICK, THICKNESS TOOLED JOINT TOTAL LOAD TOP OF CONCRETE TOP OF DECK TOP OF FOOTING TOP OF JOIST TOP OF SLAB TOP OF STEEL TOP OF WALL TOPPING TRANSVERSE TUBULAR STEEL TYPICAL ULTIMATE UNLESS NOTED OTHERWISE VARIES VERTICAL VERIFY IN FIELD WIDTH, WIDE FLANGE WITH WITHOUT WIDE FLANGE WORK POINT WEIGHT WELDED WIRE FABRIC
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SITE LOCATION



PROJECT NAME:
TRIPLEX AT 1602 N RIVERSIDE DR.

PROJECT ADDRESS:
POMPAÑO BEACH, BROWARD COUNTY, FLORIDA



ROBERTO ARCHILA, PE
DATE 04/08/25

REVISIONS:

No.	DATE	DESCRIPTION

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GENERAL STRUCTURAL NOTES

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VISIONEERING NUMBER: VN24-165
SHEET NUMBER:

S-101

SHEET OF



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