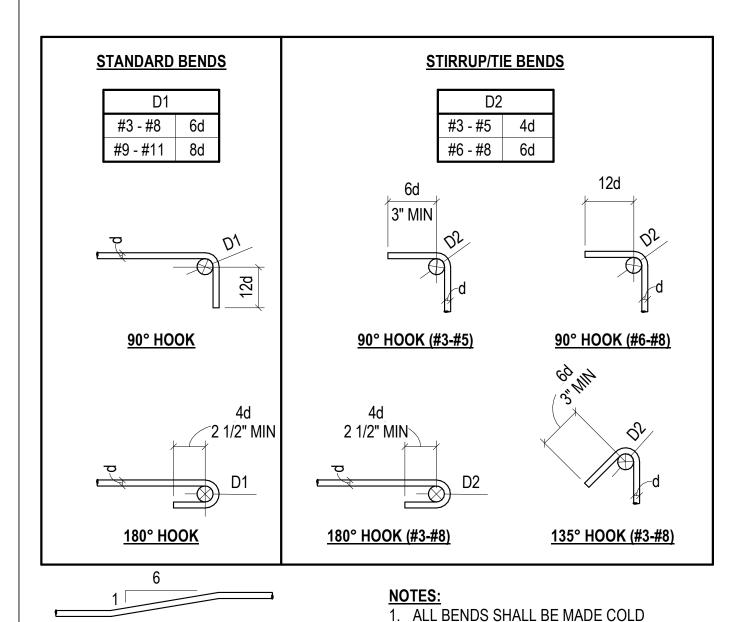
REBAR COVER TABLE							
CASE	COVER (IN)						
CONCRETE PLACED AGAINST EARTH	3						
CONCRETE PLACED IN FORMS, EXPOSED TO WEATHER OR EARTH	2						
CONCRETE PLACED ON VOID FORMS WITH MASONITE OR PLYWOOD COVERING	2						
COLUMNS, GIRDERS, AND BEAMS	1 1/2						
JOISTS	1 1/2						
SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER	1						

FBC [A] 101.2 Scope: Reviewed for compliance with FBC 7th Edition (2020) Building

APPROVED

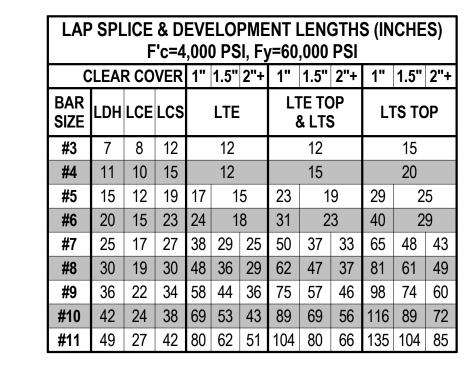
MAX OFFSET BEND

By Don Cassels at 9/1/2023 9:12:34 AM



TYPICAL REINFORCING BENDS

3/4" = 1'-0" FOUNDATION DETAIL



- 1. LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS
- SCHEDULED 2. ABBREVIATIONS
 - A. 'LCE' = COMPRESSION EMBEDMENT LENGTH
 - B. 'LCS' = COMPRESSION LAP SPLICE LENGTH
 - C. 'LDH' = HOOK DEVELOPMENT LENGTH
- D. 'LTE' = TENSION EMBEDMENT LENGTH E. 'LTS' = TENSION LAP SPLICE LENGTH
- 3. 'TOP' BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 IN OF FRESH
- CONCRETE IS CAST BELOW THE BAR 4. CLEAR COVER IS DEFINED FROM THE NEAREST FACE OF CONCRETE TO THE BAR BEING
- DEVELOPED OR SPLICED
- 5. UNLESS NOTED OTHERWISE, ALL HOOK BARS SHALL EXTEND TO THE FAR FACE LESS 2" COVER
- 6. IF A NOTE OR DETAIL CALLS FOR A BAR TO BE EMBEDDED Ld (DEVELOPMENT LENGTH) INTO
- CONCRETE, THIS SHALL CORRESPOND TO A 'LTE' LENGTH 7. IF A NOTE OR DETAIL REQUIRES A BAR TO HAVE A DEVELOPMENT OR LAP LENGTH BUT INSUFFICIENT DIMENSION IS AVAILABLE FOR THE LENGTH SCHEDULED, EXTEND BAR TO FAR FACE OF CONCRETE LESS 2" COVER AND HOOK

ADJUSTMENTS TO GIVEN LENGTHS:

- 1. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LENGTHS BY 50%
- 2. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP BY LENGTHS 30%
- 3. SCHEDULED LENGTHS ASSUME
- A. CLEAR COVER IS AS INDICATED IN SCHEDULE
- B. CLEAR SPACING BETWEEN BARS IS GREATER THAN 2xCLEAR COVER
- C. IF EITHER CONDITION A OR B IS NOT MET FOR A GIVEN BAR, INCREASE LENGTHS BY 50%
- 4. LENGTHS NOTED BASED ON Fy = 60,000 PSI.
- A. FOR OTHER YIELD STRENGTHS, MULTIPLY LENGTHS NOTED BY Fy/60,000

LAP SPLICE NOTES:

- I. ALL SPLICES SHALL BE WIRED IN CONTACT
- 2. ALL SPLICES ARE 'LTS' UNLESS NOTED OTHERWISE
- 3. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS A. COMPRESSION LAP LENGTH SHALL NOT BE LESS THAN 'LCE' OF THE LARGER BAR B. TENSION LAP LENGTH SHALL NOT BE LESS THAN 'LTE' OF THE LARGER BAR
- 4. BUNDLED BAR SPLICES:
- A. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL BE STAGGERED
- B. INCREASE LAP LENGTH 20% FOR A 3 BAR BUNDLE
- C. INCREASE LAP LENGTH 33% FOR A 4 BAR BUNDLE 5. TOP AND BOTTOM BEAM SPLICES SHALL BE STACKED VERTICALLY

HOOK EMBEDMENT NOTES:

- 1. SCHEDULED HOOK EMBEDMENT LENGTHS ASSUME:
- A. SIDE COVER IS 2 1/2 INCHES OR GREATER
- B. COVER BEYOND IS 2 INCHES OR GREATER

1. RE: ATELIER ARRECHEA DRAWINGS FOR GEOMETRY OF CONCRETE ABOVE GRADE AND FOR SCULPTURE ANCHORAGE INFO

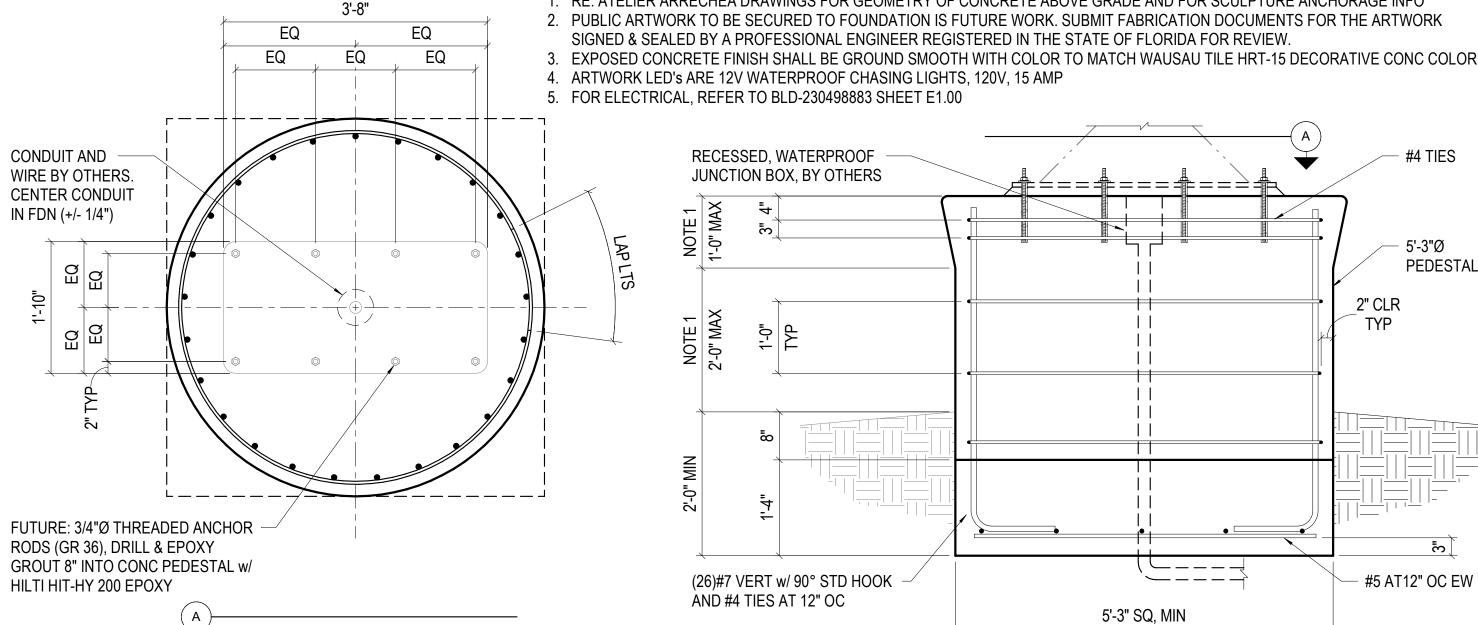
- 2. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LENGTHS BY 20%
- 3. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LENGTHS BY 30%
- 4. IF SIDE COVER IS LESS THAN 2 1/2 INCHES, INCREASE LENGTHS BY 40%

REINFORCING DEVELOPMENT, PLACEMENT, AND BEND INFO

NOTES:

2. #14 & #18 BARS SHALL BE BEND TESTED &

LAB APPROVED PRIOR TO BENDING



CONCRETE NOTES

1) GENERAL:

1A) ALL WORK SHALL CONFORM WITH ACI 301-10, UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.

(B) DETAIL BARS IN ACCORDANCE WITH THE DRAWINGS, PROJECT SPECIFICATIONS, AND ACI PUBLICATION SP-66 (2004): "ACI DETAILING MANUAL"

2) REINFORCING MATERIALS:

2A) SEE 'REINFORCING MATERIAL TABLE'

3) REINFORCING FABRICATION:

- 3A) SPLICES: NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS WHERE DETAIL NOT PROVIDED. WHERE PERMITTED, SPLICES MAY
- BE MADE BY CONTACT LAPS SEE 'LAP SPLICE SCHEDULE' FOR LAP LENGTHS.

- BB) MISCELLANEOUS REINFORCING REQUIREMENTS: PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
- MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
- NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4-2011

4) STRUCTURAL CONCRETE MIX REQUIREMENTS:

4A) SEE 'CONCRETE MIX TABLE'

5) NON-SHRINK GROUT:

5A) CONFORM TO ASTM C1107

5B) ACHIEVE 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

6) PLACING REINFORCEMENT:

6A) REINFORCEMENT PROTECTION

- SEE 'REBAR COVER TABLE'
- SEE ACI 117-10 FOR REINFORCEMENT PLACING TOLERANCES

6B) PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED

CONCRETE MIX TABLE

CONC MIX TYPE	INTENDED USE	EXPOSURE CATEGORIES AND CLASSES	COMPRES- SIVE STRENGTH f'c (KSI)	TEST AVG (DAYS)	CONC WEIGHT	MAX W/C RATIO, INCLUDING SCM	MAX AGGRE -GATE SIZE (IN), NOTE 3	TOTAL AIR CONTENT (%)
1	EXTERIOR ARCHITECTURALLY EXPOSED CONCRETE	F0, S0, W1, C1	4	56	NWC	-	3/4	-

- . CONCRETE MIX DESIGNS ARE A PERFORMANCE SPECIFIED ITEM DESIGNED BY THE CONTRACTOR THE CONTRACTOR MAY PROVIDE A CONCRETE MIX MEETING THE PERFORMANCE REQUIREMENTS SPECIFIED IN THE "CONCRETE MIX TABLE" IN ADDITION TO THE REQUIREMENTS BELOW
- 2. PROPORTIONS OF MATERIALS IN CONCRETE MIXES SHALL BE ESTABLISHED TO:
- A. PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO
- B. PROVIDE WORKABILITY AND CONSISTENCY FOR SLAB FINISHING AND TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS
- C. FOR CONCRETE PLACED BY PUMPING, PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE 4 BELOW
- 3. FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:
- 3/4": #67 AGGREGATE
- . BASED ON THE SULFATE CLASSIFICATIONS LISTED IN THE "CONCRETE MIX TABLE" THE FOLLOWING CEMENTS SHALL BE USED. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS: A. SO SULFATE CLASSIFICATION: ASTM C150 TYPE I/II OR ASTM C595 TYPES
- FOR CONCRETE MIXTURES ASSIGNED TO W1 OR W2 CLASSES, EVIDENCE SHALL BE SUBMITTED THAT THE CONCRETE MIXTURE COMPLIES WITH THE FOLLOWING
- A. AGGREGATES ARE NOT ALKALI-SILICA REACTIVE OR MEASURES TO MITIGATE ALKALI-SILICA REACTIVITY HAVE BEEN ESTABLISHED
- B. AGGREGATES ARE NOT ALKALI-CARBONATE REACTIVE
- 6. MAXIMUM CHLORIDE ION LIMITS (PERCENTAGE BY MASS OF CEMENTITIOUS MATERIALS INCLUDING
- SCM) ASSOCIATED WITH EXPOSURE CLASS IN "CONCRETE MIX TABLE" ARE AS FOLLOWS: C1 = 0.30

CONCRETE MIX TABLE ABBREVIATIONS:

- FX = FREEZING AND THAWING CLASS • SX = SULFATE CLASS
- WX = IN CONTACT WITH WATER CLASS
- CX = CORROSION PROTECTION OF REINFORCEMENT CLASS
- NWC = NORMAL WEIGHT CONCRETE
- SCM = SUPPLEMENTARY CEMENTITIOUS MATERIAL

REINFORCING MATERIAL TABLE

_									
-	REINF ELEMENT	ASTM	Fy (KSI)	Fu (KSI)	COMMENTS				
	TYP REINFORCING	A615	60	90	-				
	WELDED & FIELD BENT REINF	A706	60	80	-				

GENERAL NOTES

1) GENERAL:

1A) ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.

1B) UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES AND NOTIFY ARCHITECT OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.

REVIEWED

No. 78948

STATE OF

Andrew Emmons E=aemmons@martinmartin.com, G=Andrew, SN=Emmons, C=US Reason: I am the author of this

2) USE OF DRAWINGS: 2A) DO NOT SCALE DRAWINGS

2B) DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

2C) WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS AND GENERAL NOTES CONTACT THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION THE MORE STRINGENT REQUIREMENTS SHALL GOVERN FOR BIDDING / PRICING

3) COORDINATION:

3A) STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.

3B) COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.

3C) THE GENERAL CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR ALL COORDINATION, INCLUDING BUT NOT LIMITED TO THE DESIGN, FABRICATION, AND INSTALLATION OF THE ARTWORK, WITH THE ARTIST, FABRICATOR(S), AND THE CITY OF TAMPA, DURING THE BIDDING PROCESS, PROJECT AWARD, CONSTRUCTION, FABRICATION, INSTALLATION, AND CLOSE-OUT.

4) TEMPORARY CONDITIONS, CONSTRUCTION ENGINEERING, AND OSHA STANDARDS: 4A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ONLY FOR LOADS ANTICIPATED DURING THE STRUCTURE'S SERVICE LIFE

4B) THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK WHICH MAY INCLUDE, BUT IS NOT LIMITED TO:

- LAYOUT
- DESIGN FOR FORMWORK, SHORING, AND RESHORING
- DESIGN OF CONCRETE MIXES
- ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION
- DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND, SEISMIC, OR SOIL LOADS
- SURVEYING TO VERIFY CONSTRUCTION TOLERANCES
- STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS

FOUNDATION NOTES

DESIGN CRITERIA:

1A) THE GEOTECHNICAL REPORT PREPARED BY MESKEL & ASSOCIATES ENGINEERING, NUMBER 0072-0003, DATED MARCH 1, 2019 PROVIDED CRITERIA FOR THE FOUNDATION DESIGN FOR THE

2) FOOTINGS:

- 2A) FOOTING DESIGN CRITERIA:
- MAXIMUM TOTAL LOAD BEARING PRESSURE = 2500 PSF
- MINIMUM SPREAD FOOTING WIDTH = 24 IN FROST DEPTH TO BOTTOM OF FOUNDATION = 12 IN
 - **DESIGN CRITERIA**

1) CODES AND STANDARDS:

1A) GENERAL DESIGN 2020 FLORIDA BUILDING CODE

1B) LOADS

ASCE/SEI 7-16 "MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES" WHERE INDICATED ON DRAWINGS INDIVIDUAL UNFACTORED LOAD COMPONENTS (D. Di. L. Lr. R. S. H. F. Fa. E. W. Wi. T) ARE AS DEFINED AND DETERMINED BY THE BUILDING CODES AND STANDARDS INDICATED. LOAD COMPONENTS SHALL BE COMBINED USING THE LOAD COMBINATIONS OF THE BUILDING CODE FOR SPECIALTY DESIGN BY OTHERS.

1C)CONCRETE

ACI 301-LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"

2) SEISMIC LOADS

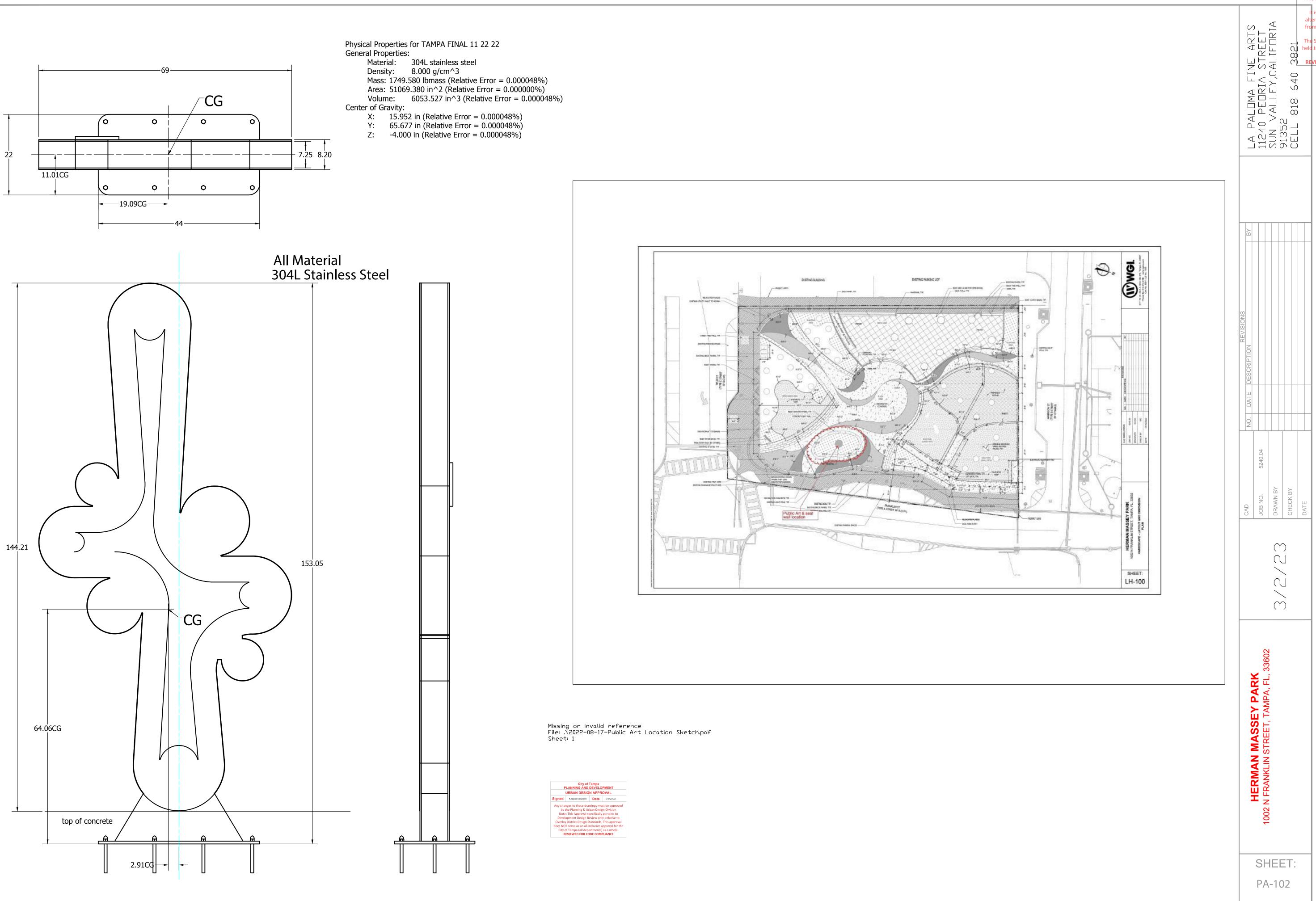
- SEISMIC DESIGN CATEGORY = A
- RISK CATEGORY = II EARTHQUAKE IMPORTANCE FACTOR, le = 1.00
- MAPPED SPECTRAL RESPONSE ACCELERATION, Ss = 5.40 %g
- MAPPED SPECTRAL RESPONSE ACCELERATION, S1 = 3.00 %g
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 0.057 DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.048
- SOIL SITE CLASS = D CODE DEFAULT

3) WIND LOADS

- RISK CATEGORY = II
- BASIC ULTIMATE WIND SPEED, Vult = 141 mph BASIC NOMINAL WIND SPEED, Vasd = 110 mph
- EXPOSURE CATEGORY = C
- INTERNAL PRESSURE COEFFICIENT, Gcpi = +/-0.00
- SITE IS IN A HURRICANE-PRONE REGION AS DEFINED IN ASCE 7-16 SECTION 26.2

SHEET:

PA-101

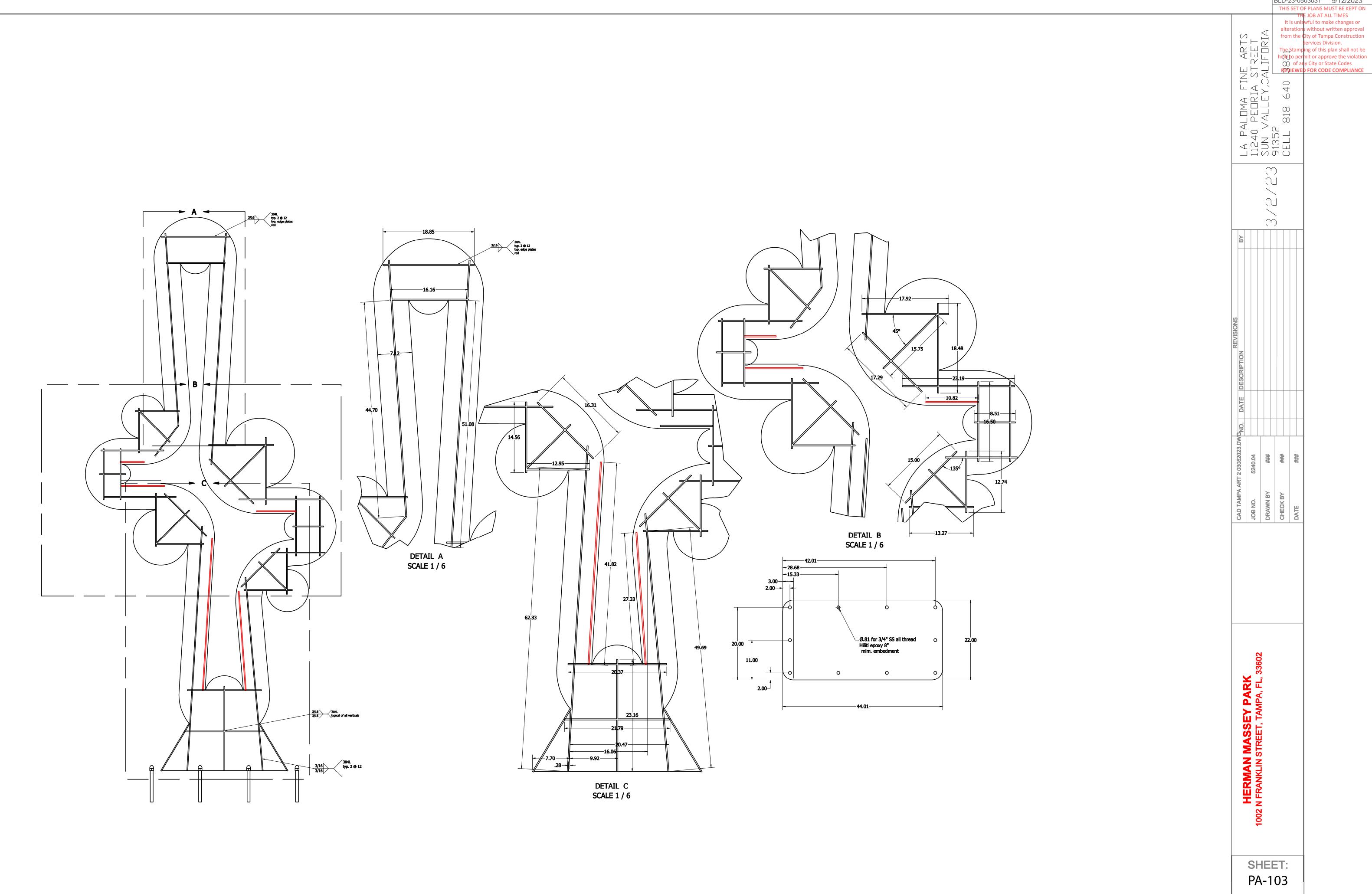


City of Tampa
CONSTRUCTION SERVICES DIVISION
PLAN APPROVAL
BLD-23-0503031 9/12/2023
THIS SET OF PLANS MUST BE KEPT ON
THE JOB AT ALL TIMES
It is unlawful to make changes or alterations without written approval

It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.

The Stamping of this plan shall not be held to permit or approve the violation of any City or State Codes

REVIEWED FOR CODE COMPLIANCE



City of Tampa CONSTRUCTION SERVICES DIVISION PLAN APPROVAL BLD-23-0503031 9/12/2023

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3/2/23

HERMAN MASSEY PARK 1002 N FRANKLIN STREET, TAMPA, FL, 33602

SHEET:

PA-104