

# CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

## Project Description:

Remove rear ramp; construct rear ramp

\*Beyond this expiration date, NC Session Law 2021-03 grants an extension to all valid development permits until 150-days after NC Executive Order 116 is rescinded.

412 Morson St

Address

Oakwood

Historic District

Historic Property

COA-0136-2021

Certificate Number

9/24/2021

Date of Issue

3/24/2022\*

Expiration Date

*This card must be kept posted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.*

Signature, \_\_\_\_\_

*Ein Morton*

Raleigh Historic Development Commission

*Pending the resolution of appeals, commencement of work is at your own risk.*

Type or print the following:		
Applicant name: Sierra Structures, Inc		
Mailing address: 917 Ellis Rd		
City: Durham	State: NC	Zip code: 27703
Date: 8/11/21	Daytime phone #: (919) 471-3500	
Email address: permits@sierrastructures.com		
Applicant signature: Wendy Partin <i>Wendy Partin</i>		
Minor work (staff review) – one copy Major work (COA committee review) – ten copies Additions > 25% of building sq. footage New buildings Demolition of building or structure All other Post approval re-review of conditions of approval		<b>Office Use Only</b> Transaction #: _____ File #: <u>COA-0136-2021</u> Fee: _____ Amount paid: _____ Received date: _____ Received by: _____ _____
Property street address: 412 Morson St.		
Historic district: Oakwood Historic Overlay District		
Historic property/Landmark name (if applicable):		
Owner name: National Association of Social Workers - NC		
Owner mailing address: 412 Morson St.		

**For applications that require review by the COA Committee (major work), provide addressed and stamped envelopes for owners for all properties with 100 feet on all sides of the property, as well as the property owner.**

Property Owner Name & Address	Property Owner Name & Address

I understand that all major work applications that require review by the Raleigh Historic Development Commission's COA Committee must be submitted by 4 p.m. on the date of the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Will you be applying for rehabilitation tax credits for this project? Yes <input type="radio"/> No <input checked="" type="radio"/>	Office Use Only Type of work: <u>59</u>
Did you consult with staff prior to filing the application? Yes <input type="radio"/> No <input checked="" type="radio"/>	

Design Guidelines: please cite the applicable sections of the design guidelines ( <a href="http://www.rhdc.org">www.rhdc.org</a> ).		
Section/Page	Topic	Brief description of work (attach additional sheets as needed).

Minor Work Approval (office use only)	
Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until <u>03/24/2022</u> . Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor Works are subject to an appeals period of 30 days from the date of approval.	
Signature (City of Raleigh) <u><i>Sam Morth</i></u>	Date <u>09/24/2021</u>

**The Triangle's**  
**Premiere Builder of**  
**Fences, Decks &**  
**Screened Porches**

Licensed NC  
 General Contractor



## Residential Division

919-471-3500  
 917 Ellis Road  
 Durham, NC 27703  
 Fax: 919-471-3522

[www.sierrastructures.com](http://www.sierrastructures.com)

TO: **Kristen Carter - NASENC**  
**412 Morson St.**  
**Raleigh, NC**

5/27/2021

## Proposal

Sierra Structures will provide labor and materials to construct a deck with the following specifications. ADA Ramp will be supported by 6"x6" posts on concrete footings. Posts will be notched to support double 2"x10" girders held in place with 5/8" carriage bolts. Joists will be 2"x8" (minimum), spaced 16" on center, supported by joist hangers. Decking boards will be fastened to joists using 2-1/2" decking screws, unless hidden fasteners are specified. Classic, All Wood railing will be 36" high and will consist of 4"x4" posts bolted to deck frame with black aluminum balusters spaced 4" on center on 2"x4" horizontal supports. Railing will be capped with 2"x6"s with routed edges. All lumber used will be #2-grade (or better), pressure-treated pine (MCQ) and all fasteners and hardware will be galvanized. AdA ramp will comply with all NC building codes and pass all city inspections. Upper deck will be 8'x10', ADA ramp will be 32 feet long by 4 feet. Engineering fees of \$1000. as agreed are included in this cost.

Sierra Structures will pay for and obtain electrical and building permits and successfully pass all required inspections. Please be aware that additional approvals by other governmental departments (Zoning, Environmental, Historical Districts) and/or drawings by a licensed surveyor may be required. These costs are not included in our quote. Upon request, we are happy to research requirements in your jurisdiction and provide an estimate of any additional costs. In almost all cases, a site plan (plat or survey drawing by a licensed survey) is required to obtain the building permit. If you do not have one, a new survey may have to done.

New Deck Construction: **260** square feet  
 Attached or Free-Standing: **Free-Standing**  
 Max. Deck Height: **3** feet above grade  
 Type of Decking: **Trex Enhance Natural**  
 Hidden Fasteners: **Yes**  
 Width of Steps: **6** feet  
 Width of Additional Steps: **0** feet  
 Diamond Lattice Installed: **0** square feet  
 Square Lattice Installed: **0** square feet  
 Lattice Gates Installed: **0**

Replace Decking Only: **0** square feet  
 Decking Direction: **Parallel**  
 Length of New Railing: **86**  
 Type of Railing: **Classic w/ Metal Balusters**  
 Deck Railing Gates: **0** Type: **Aluminum**  
 Fascia Type: **None**  
 Demolition of Existing Deck: **0** square feet  
 Demolition of Railing Only: **0** linear feet  
 Demolition of Stairs Only: **0** feet high  
 New Electrical Outlet Installed: **No**

Tentative start date of  
 7/27 - Pending city permit  
 approvals.

Total Investment: **\$15,229**  
 Monthly Payment: **NA**

### Payment Terms:

Deposit of \$7114.50 has been paid. \$8114.50 to be paid once completed & pass all inspections.

### Warranty Information:

All materials will be warranted by the manufacturer. Sierra Structures guarantees construction to be free of defects in workmanship for a period of one year from the date of completion.

### License & Insurance:

Sierra Structures, Inc. is a licensed North Carolina General Contractor. Sierra Structures carries full general liability and worker's compensation insurance. Proof of both available upon request.

**Expiration:** This proposal will expire thirty (30) days from the date above.

**Your Sales Rep is:** **Travis House**

Acceptance of Proposal:

DocuSigned by:

*Valerie Arendt*  
 19F79F482BB5466  
 Executive Director, National Association of Social workers

6/3/2021

For Sierra Structures

Date

This proposal becomes a contract when signed by both parties. We will arrange for location of buried utilities, but are not responsible for damage caused by digging. Unless specified, quotations do not include grading, clearing or extra labor caused by hard digging or buried objects. GENERAL CONTRACTOR or OWNER ASSUMES ALL RESPONSIBILITY FOR THE LOCATION OF THE CONSTRUCTION.

I HAVE READ THE FENCE FACTS ON PAGE 2 AND UNDERSTAND THE INFORMATION WITHIN







## ABBREVIATIONS

ABV	ABOVE	LVL	LAMINATED VENEER LUMBER
AFV	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ALT	ALTERNATE	MCH	MECHANICAL
BRO	BEARING	MFR	MANUFACTURER
BST	BASEMENT	MNM	MINIMUM
CNT	CANTILEVER	HTS	HOT TO SCALE
CJ	CILING JOIST	OV	OVERALL
CLG	CILING	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	PT	PREFABRICATED
CD	CASED OPENING	R	RISER
COL	COLUMN	REF	REFRIGERATOR
CONC	CONCRETE	RFG	ROOFING
CONTR	CONTRIBUTOR	RO	ROUGH OPENING
DNT	DOOR	RS	ROOF SUPPORT
DAM	DAMETER	SH	SHOULDER
DJ	DOUBLE JOIST	SHW	SHOWER
DN	DOWN	SHL	SHOULDER
DP	DEEP	SJ	STUD JOIST
DR	DOUBLE RAFTER	STP	STUD POCKET
DSP	DOUBLE STUD POCKET	SPCD	SPECIFIED
EA	EACH	SQ	SQUARE
EE	EACH END	SPED	SPECIFIED
EQ	EQUAL	TEMP	TEMPERED GLASS
EX	EXTERIOR	THK	THICKNESS
FAU	FORCED-AIR UNIT	THK	THICKNESS
FON	FOUNDATION	TJ	TRIPLE JOIST
FF	FINISHED FLOOR	TJC	TOP OF CURB (CONCRETE)
FLR	FLOORING	TR	TRIPLE RAFTER
FP	FACE PLATE	TYP	TYPICAL
FTG	FOOTING	UNO	UNLESS NOTED OTHERWISE
HB	HOLE BBS	W	WATER
HDR	HEADER	WH	WATER HEATER
HGR	HANGER	WV	WELDED WIRE FABRIC
JF	JACK STUD COLUMN	XJ	EXTRA JOIST
KS	KING STUD COLUMN		

NOTE: ALL CHAPTERS, SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE BUILDING CODE (SEE TITLE SHEET).

## GENERAL

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHOD, AND SAFETY ON SITE. NOTIFY JOB CONSULTING IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
- OPENINGS 1'-4" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SUCH OPENINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOADS APPLIED TO THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE APPLIED.
- FREE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR FREE PROOFING METHODS AND MATERIALS.
- DO NOT SCALE THESE DRAWINGS; USE DIMENSIONS.

## DESIGN CRITERIA

1. BUILDING CODE:	SEE TITLE SHEET
2. ASSUMED SOIL BEARING CAPACITY:	2,000 PSF
3. DESIGN LIVE LOADS:	
a. ROOF:	20 PSF
b. FLOOR (OFFICE):	30 PSF
c. FLOOR (CORRIDOR):	100 PSF
4. SNOW LOADS:	
a. GROUND SNOW:	15 PSF
b. PLAT ROOF SNOW:	15 PSF
c. SNOW EXPOSURE FACTOR, $C_e$ :	1.0
d. IMPORTANCE FACTOR, $I$ :	1.0
e. THERMAL FACTOR, $C_t$ :	1.0
f. DRIFT SURCHARGE LOADS, $P_d$ :	0
g. WIDTH OF SNOW DRIFT, $w$ :	0
5. WIND:	
a. ULTIMATE DESIGN WIND SPEED:	115 MPH
b. NOMINAL DESIGN WIND SPEED:	89 MPH
c. RISK CATEGORY:	II
d. WIND EXPOSURE CATEGORY:	B
e. INTERNAL PRESSURE COEFFICIENT:	-0.5/1.0
f. ROOF COMPONENTS AND CLADDING:	-10 PSF, -21 PSF
g. WALL COMPONENTS AND CLADDING:	-10 PSF, -20 PSF
6. SEISMIC:	
a. RISK CATEGORY:	II
b. IMPORTANCE FACTOR, $I$ :	1.0
c. MAPPED SPECTRAL RESPONSE ACCELERATION, $S_a(0.1s)$ :	0.165
d. MAPPED SPECTRAL RESPONSE ACCELERATION, $S_a(1s)$ :	0.095
e. SITE CLASS:	II
f. DESIGN SPECTRAL RESPONSE ACCELERATION, $S_a(0.2s)$ :	0.23
g. DESIGN SPECTRAL RESPONSE ACCELERATION, $S_a(1s)$ :	0.14
h. SEISMIC DESIGN CATEGORY:	II
i. BASIC SEISMIC FORCE RESISTING SYSTEM:	STEEL MOMENT FRAME
j. DESIGN BASE SHEAR:	$V = 8.1$
k. SEISMIC RESPONSE COEFFICIENT, $C_s$ :	0.8
l. RESPONSE MODIFICATION COEFFICIENT, $R$ :	6.5
m. ANALYSIS PROCEDURE:	EQUILIBRIUM LATERAL FORCE

## FOUNDATION

- MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 POUNDS PER SQUARE FOOT (PSF). IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EXIST.
- WOOD BILT PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 1" EMBEDMENT, SPACED A MAXIMUM OF 8" O.C. AND WITHIN 12" FROM THE EDGE OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE DRAWINGS FOR SPECIAL CONDITIONS.
- ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).

## STRUCTURAL CONCRETE

- POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
- NORMAL-WEIGHT CONCRETE SHALL HAVE A MAXIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT (PCF), UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60, INCLUDING TIES AND STRIPPERS.
- MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
  - Unformed surfaces in contact with ground: 3"
  - Formed surfaces exposed to earth or weather: 2"
  - Formed surfaces not exposed to earth or weather: 1 1/2"
- REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES WHERE THE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
- PLUMBING, MECHANICAL, AND ELECTRICAL (PME) DRAWINGS SHALL BE REFERRED TO FOR DRAIN, SEWER, VENT, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THEIR RESPECTIVE ITEMS.
- MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD A318 OR ASTM C1157.
- CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABLY SHALL BE AIR-ENTRAINED WHEN REQUIRED BY THE APPLICABLE CODE.
- WITH CLASS 1 BOLT, VARIATION BARRIER AND CRUSHED STONE MAY BE OMITTED.

## STRUCTURAL MASONRY

- COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS (CMU) SHALL BE 1,900 PSI ON NET AREA.
- MORTAR SHALL BE TYPE S AND COMPLY WITH ASTM INTERNATIONAL STANDARD C775.
- COMPRESSIVE STRENGTH OF MORTAR SHALL BE 1,900 PSI AT 28 DAYS.
- COMPRESSIVE STRENGTH OF MASONRY ASSEMBLAGE SHALL BE 1,900 PSI ON NET AREA.
- CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 330, BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND THE MASONRY SOCIETY PUBLICATION 238, MASONRY BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.

## STRUCTURAL STEEL


- STRUCTURAL STEEL WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A992,  $F_y = 50$  KSI, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL TUBE SHAPES SHALL CONFORM TO ASTM A500, GRADE B,  $F_y = 44$  KSI, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL PIPE SHAPES SHALL CONFORM TO ASTM A53, TYPE B, GRADE B,  $F_y = 35$  KSI, UNLESS NOTED OTHERWISE.
- ALL MISCELLANEOUS STRUCTURAL STEEL SHALL CONFORM TO ASTM A36,  $F_y = 36$  KSI, UNLESS NOTED OTHERWISE.
- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO AISC CODE OF STANDARD PRACTICE, SECTION 10.
- BOLTS FOR BOLTED CONNECTIONS SHALL BE 3/4" DIAMETER, ASTM A325, TYPE N, BRUG TIGHT, UNLESS NOTED OTHERWISE.
- FABRICATOR SHALL DESIGN BEAM CONNECTIONS PER LOADS PROVIDED IN AISC UNIFORM LOAD TABLES, UNLESS NOTED OTHERWISE.
- ALL BEAMS AND GIRDERS SHALL HAVE THEIR ROLLING CAMBER PLACED UP.
- NO CHANGE IN SIZE OR PORTION OF THE STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD. HOLE, SLOTS, CUTS, ETC. ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
- SPLICING OF STRUCTURAL STEEL MEMBERS, WHERE NOT DETAILED, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, UNLESS NOTED OTHERWISE.
- NO FINAL BOLTING OR WELDING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.
- INDICATED MODEL NUMBERS FOR ALL METAL MEMBERS, STRAPS, FRAMING CONNECTIONS, AND HOLD-DOWNS ARE EMPLOYED. THE BRAND, EQUIVALENT, OR BRAND PRODUCTS ARE ACCEPTABLE.
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR (4) NAILS OR TWO (2) 4" LAG SCREWS, UNO.

## STRUCTURAL WOOD

- ALL STRUCTURAL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%, UNLESS NOTED OTHERWISE.
- INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (SEE DRAWINGS FOR SPECIAL CONDITIONS):
 
$$F_b = 875 \text{ PSI} \quad F_v = 70 \text{ PSI} \quad E = 1,600 \text{ PSI}$$
- FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SPY) WITH THE FOLLOWING DESIGN PROPERTIES:
 
$$F_b = 875 \text{ PSI} \quad F_v = 85 \text{ PSI} \quad E = 1,600 \text{ PSI}$$
- LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
 
$$F_b = 2600 \text{ PSI} \quad F_v = 260 \text{ PSI} \quad E = 1,600 \text{ PSI}$$
- PSE STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
 
$$F_b = 2600 \text{ PSI} \quad F_v = 260 \text{ PSI} \quad E = 1,600 \text{ PSI}$$
- LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
 
$$F_b = 2250 \text{ PSI} \quad F_v = 420 \text{ PSI} \quad E = 1,600 \text{ PSI}$$
- REFER TO JOIST EQUIVALENCE CHART ON JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.
- ALL BEARING HEADERS TO BE (2) 2x4 SUPPORTED WITH (1) JACK STUD AND (1) KNUF STUD EACH END, UNO.
- ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.
- NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" O.C.
- SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR CASE OF CONSTRUCTION.
- FACE OF WALL FRAMING TO BE FLUSH WITH FACE OF FOUNDATION WALLS, UNLESS NOTED OTHERWISE.
- ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LBL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
- ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:
  - SHOP DRAWINGS FOR THE SYSTEM SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION.
  - TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
  - INSTALLATION OF THE SYSTEM SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO CONFORM WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.
- ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WEIGHT ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.
- WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 1/2" O.C. STAGGERED TOP AND BOTTOM, 1/2" MIN FROM END. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS BOLTS, OR TRUSS-BOLT SCREWS (SEE MANUFACTURER SPECIFICATIONS).
- FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE C816 STRAPS ACROSS STUDS @ 30" O.C. IF WALL FROM PLATE, ON INSIDE FACE OF COLUMN (EXTERIOR WALL, ON BOTH FACES OF COLUMN (INTERIOR WALL)).
- FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE Nailed TO THE FLOOR SHEATHING, THE BILT PLATE, THE JOIST, AND THE EXTERIOR FLOOR JOIST / BOARD.
- PER SECTION 1004 OF THE APPLICABLE CODE (SEE TITLE SHEET), ANCHORAGE OF THE ROOF TO WALLS AND COLUMNS, AND OF WALLS AND COLUMNS TO FOUNDATIONS TO RESIST UPLIFT AND SLIDING FORCES, SHALL BE PROVIDED. REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.

## ROOF SYSTEMS

### TRUSS ROOF - STRUCTURAL NOTES

- FABRICATION AND ERECTION OF WOOD TRUSSES SHALL BE PER THE LATEST EDITION OF THE AMERICAN FOREST AND PAPER ASSOCIATION PUBLICATION NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AND AMERICAN LVL.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
-  DENOTES OVER-FRAMED AREA.
- MINIMUM 7/16" OBB ROOF SHEATHING.
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO CONFORM WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PLANE TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- TRUSS MANUFACTURER SHALL FURNISH SHOP DRAWINGS AND DESIGN CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL INDICATE TRUSS END REACTIONS FOR CONNECTION VERIFICATION BY ENGINEER-OF-RECORD.
- MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE 1/2" DIA. MINIMUM OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.
- WOOD MEMBERS SHALL NOT BE CUT FOR PLUMBING OR WIRING UNLESS DETAILED ON THE APPROVED SHOP DRAWINGS.

FASTENER SCHEDULE			
CONNECTION	3" x 0.131" NAIL, 3" x 0.120" NAIL		
JOIST TO BILT PLATE	NAILS @ 12" O.C.	NAILS @ 12" O.C.	
SOLE PLATE TO JOIST / BLOCKING	NAILS @ 12" O.C. (NAILS @ 12" O.C. IN PER 1" SPACE @ 12" O.C. MIN.)	NAILS @ 12" O.C. (NAILS @ 12" O.C. IN PER 1" SPACE @ 12" O.C. MIN.)	
STUD TO SOLE PLATE	NAILS @ 12" O.C.	NAILS @ 12" O.C.	
TOP OR SOLE PLATE TO STUD	(1) FACE NAILS	(1) FACE NAILS	
RM JOIST OR BAND JOIST TO TOP PLATE OR BILT PLATE	TOP NAILS @ 12" O.C.	TOP NAILS @ 12" O.C.	
BLOCKING STUDS TO TOP PLATE OR BILT PLATE	(1) FACE NAILS	(1) FACE NAILS	
DOUBLE STUD	NAILS @ 12" O.C.	NAILS @ 12" O.C.	
DOUBLE TOP PLATE	NAILS @ 12" O.C.	NAILS @ 12" O.C.	
DOUBLE TOP PLATE LAP	(1) NAILS IN LAPPED AREA, 6" O.C. SIDE OF JOINT	(1) NAILS IN LAPPED AREA, 6" O.C. SIDE OF JOINT	
TOP PLATE LAP AT CORNER AND INTERIOR WALL	(1) FACE NAILS	(1) FACE NAILS	
OVER WEE TRUSS BOTTOM GIRDERS TO TOP PLATE OR BILT PLATE (PERPENDICULAR TO WALL)	NAILS @ 12" O.C.	NAILS @ 12" O.C.	
BOTTOM GIRDERS OF TRUSS TO TOP PLATE OR BILT PLATE (PERPENDICULAR TO WALL)	(1) FACE NAILS	(1) FACE NAILS	

DETAILS AND NOTES ON DRAWINGS GOVERN



PA001

**JDS Consulting**  
ENGINEERING • ARCHITECTURE • INTERIOR DESIGN

RES. CONSULTING, ARCHITECTURE, INTERIOR DESIGN, AND CONSTRUCTION MANAGEMENT SERVICES. WE ARE A FULL-SERVICE FIRM WITH A TEAM OF PROFESSIONALS WHO ARE DEDICATED TO PROVIDING THE HIGHEST QUALITY OF SERVICE TO OUR CLIENTS. OUR OFFICE IS LOCATED IN RALEIGH, NC, AND WE SERVE CLIENTS ACROSS THE STATE OF NORTH CAROLINA.

CLIENT: SIERRA STRUCTURES  
PROJECT: CARTER - ADA RAMP REBUILD  
LOCATION: 412 MORSON STREET, RALEIGH, NC

PROJECT NO: 21901161  
DATE: 06/21/2021  
DRAWN BY: FAB

GENERAL NOTES

**GN1.0**

Name of Project: CARTRIDGE - ADA RAMP REBUILD  
 Address: 412 MONROE STREET, BUNNELL, NC Zip Code: 27801  
 Owner/Authorized Agent: 252-674-6111 Phone # ( 919 ) 675 - 8879 E-Mail: MLANDERS@BUNNELL-NC.ORG  
 Owned By: ☐ City/County ☒ Private ☐ State  
 Code Enforcement Jurisdiction: ☒ City BUNNELL ☐ County ☐ State

CONTACT:					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE: #	E-MAIL
Architectural				( )	
Civil				( )	
Electrical				( )	
Fire Alarm				( )	
Plumbing				( )	
Mechanical				( )	
Sprinkler-Standpipe				( )	
Structural	JOS CONSULTING	CHARLY E. BAY	254403	PT. JACO-2013	CITALEB@CONSULTING.NET
Retaining Walls >5' High					
Other					

(\*Other\* should include firms and individuals such as: truss, process, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ☐ Renovation  
☐ 1<sup>st</sup> Time Interior Completion  
☐ Shell/Corr - Contact the local inspection jurisdiction for possible additional procedures and requirements  
☐ Phased Construction - Shell/Corr - Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☒ Repair ☐ Chapter 14  
Alteration: ☐ Level I ☐ Level II ☐ Level III  
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) 1/15/2019 CURRENT OCCUPANCY(S) (Ch. 3): 8  
RENOVATED: (date) \_\_\_\_\_ PROPOSED OCCUPANCY(S) (Ch. 3): 8

RISK CATEGORY (Table 1604.5):  
Current: ☐ I ☐ II ☐ III ☐ IV  
Proposed: ☐ I ☒ II ☐ III ☐ IV

**BASIC BUILDING DATA:**

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☒ V-A ☐ V-B

(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☐ V-D

Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: ☒ No ☐ Yes ☐ Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Fire District: ☒ No ☐ Yes ☐ Flood Hazard Area: ☐ No ☐ Yes

Special Inspections Required: ☒ No ☐ Yes (check the local inspection jurisdiction for additional procedures and requirements)

Gross Building Area Table		
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)
3 <sup>rd</sup> Floor		
2 <sup>nd</sup> Floor		
Mezzanine		
1 <sup>st</sup> Floor		
Basement		
TOTAL		

Primary Occupancy Classification(s):		ALLOWABLE AREA	
Assembly	<input type="checkbox"/> A-1 <input type="checkbox"/> A-2 <input type="checkbox"/> A-3 <input type="checkbox"/> A-4 <input type="checkbox"/> A-5		
Business	<input checked="" type="checkbox"/> B-1		
Educational	<input type="checkbox"/> F-1   Moderate <input type="checkbox"/> F-2 Low		
Factory	<input type="checkbox"/> H-1   Desolate <input type="checkbox"/> H-2 Ineffective <input type="checkbox"/> H-3 Combust <input type="checkbox"/> H-4 Health <input type="checkbox"/> H-5 HPM		
Hazardous	<input type="checkbox"/> I-1   Condition <input type="checkbox"/> I-2		
Institutional	<input type="checkbox"/> I-2   Condition <input type="checkbox"/> I-1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5		
	<input type="checkbox"/> I-3   Condition <input type="checkbox"/> I-4		
Merchandise	<input type="checkbox"/> R-1 <input type="checkbox"/> R-2 <input type="checkbox"/> R-3 <input type="checkbox"/> R-4		
Residential	<input type="checkbox"/> S-1   Medium <input type="checkbox"/> S-2 Low <input type="checkbox"/> High-piled		
Storage	<input type="checkbox"/> Parking Garage <input type="checkbox"/> Open <input type="checkbox"/> Enclosed <input type="checkbox"/> Repair Garage		
Utility and Miscellaneous			

Accessory Occupancy Classification(s): N/A

Incidental Uses (Table 509): N/A

Special Uses (Chapter 4 – List Code Sections): N/A

Special Provisions: (Chapter 5 – List Code Sections): N/A

Mixed Occupancy: ☐ No ☐ Yes Separation: \_\_\_\_\_ Hr. Exception: \_\_\_\_\_

☐ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, as determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations for each story; the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

<u>Actual Area of Occupancy A</u>	<u>Actual Area of Occupancy B</u>	$\leq 1$
<u>Allowable Area of Occupancy A</u>	<u>Allowable Area of Occupancy B</u>	
		$\leq 1.00$

[illegible]

Frontage area increases from Section 506.3 are computed thus:

- Perimeter which fronts a public way or open space having 20 feet minimum width = \_\_\_\_\_ (F)
- Total Building Perimeter = \_\_\_\_\_ (P)
- Ratio  $(FP/P) = \frac{\text{_____}}{\text{_____}}$  (FP/P)
- W = Minimum width of public way = \_\_\_\_\_ (W)
- Percent of Frontage increase  $I_f = 100(F/P - 0.25) \div W/30 = \text{_____}$  (%)

<sup>2</sup> Unlimited area applicable under conditions of Section 507

<sup>3</sup> Maximum Building Area = total number of stories in the building  $\times$  (maximum) stories (506.2).

<sup>4</sup> Maximum area of open parking space computed as shown in Table 406-5.4.

<sup>5</sup> Frontage increase is based on the unimproved area value in Table 506-2.0.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3) <sup>1</sup>			
Building Height in Stories (Table 504.4) <sup>2</sup>			

<sup>1</sup> Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.  
<sup>2</sup> The maximum height of air traffic control towers must comply with Table 412.3.1.  
<sup>3</sup> The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS						
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	PROVIDED REDUCTION	DETAILS # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Unprotected Frame, including columns, girders, trusses						
Exterior Walls						
Exterior						
North						
East						
West						
South						
Interior						
Nonbearing Walls and Partitions						
Exterior walls						
North						
East						
West						
South						
Interior walls and partitions						
Floor Construction						
Including supporting beams and girders						
Floor Ceiling Assembly						
Column Supporting Floors						
Roof Construction, including supporting beams and joists						
Roof Ceiling Assembly						
Column Supporting Roof						
Shaft Enclosures - Exit						
Shaft Enclosures - Other						
Corridor Separation						
Occupancy of the Barrier Separation						
Party Line Wall Separation						
Smoke Barrier Separation						
Smoke Partitions						
1-man Dwelling Unit / Single-Unit Separation						
Incidental Use Separation						

\* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE - (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS - PROTECTION (TABLE 705.5)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLAN (%)
EXISTING = NO NEW ROOM			

**LIFE SAFETY SYSTEM REQUIREMENTS**

Emergency Lighting:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Exit Signs:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Fire Alarm:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Smoke Detection Systems:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> Partial _____
Carbon Monoxide Detection:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes

**LIFE SAFETY PLAN REQUIREMENTS**

Life Safety Plan Sheet #: \_\_\_\_\_

Life Safety Plan Sheet #:

- ☐ Fire and/or smoke rated wall locations (Chapter 7)
- ☐ Assumed and/or non property line locations (if not on the site plan)
- ☐ Exterior wall opening area with respect to distance to assumed property lines (1005.2)
- ☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1006.1, 1006.2)
- ☐ Common paths for each area
- ☐ Exit access travel distances (1017)
- ☐ Occupant paths of travel distances (Tables 1006.2.1 & 1006.3.2)(1)
- ☐ Dead end lengths (1029.4)
- ☐ Clear exit width for each exit door
- ☐ Maximum calculated occupant load capacity each exit door (calculated based on egress width) (1005.3)
- ☐ Actual occupant load for each exit door
- ☐ A separate schematic plan indicating where fire exits are occurring and/or non structure is provided for purposes of occupancy separation
- ☐ Location of doors with panic hardware (1009.1.1)
- ☐ Location of doors with delayed egress locks and the amount of delay (1010.1.5, 9.7)
- ☐ Location of doors with electromagnetic egress locks (1010.1.1)
- ☐ Location of doors equipped with hold-open devices (1010.1.2)
- ☐ Location of emergency exit signs (1030)
- ☐ The square footage of each room (1022)
- ☐ The square footage of the entire compartment for Occupancy Classification 1-2 (407.5)
- ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)							
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106)					
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESSIBLE	VAN SPACES WITH 12' ACCESSIBLE	
TOTAL					

[illegible]

**SPECIAL APPROVALS**

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DIIIIS, etc., describe below)



**JDS Consulting**  
HUMAN RESOURCES • FINANCIAL • LOGISTICS  
  
JDS Consulting LLC, ONE DUNSTON CT., SUITE 200, WESTPORT, MA 01881  
INFO@JDSCONSULTING.NET, 800-828-1140, WWW.JDSMAINTENANCE.NET

CLIENT	SIERRA STRUCTURES
PROJECT	CARTER - ADA RAMP REBUILD
LOCATION	412 MORSON STREET, RALEIGH, NC

21901161

DATE:	DRAWN BY:
06/21/2021	FA

CODE SUMMARY

APP.B1

TABLE 1. *Continued*

**ENERGY REQUIREMENTS:**  
The following data shall be considered minimum and any special attributes required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)

Exempt Building: ☐ No ☐ Yes (Provide code or statutory reference): \_\_\_\_\_

Climate Zone: ☐ 3A ☐ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive  
ASHRAE 90.1 ☐ Performance ☐ Prescriptive  
(If "Other" specify source here): \_\_\_\_\_

**THERMAL ENVELOPE** (Prescriptive method only)

**Roof/Flooring Assembly** (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_  
Skylights in each assembly: \_\_\_\_\_  
U-Value of skylight: \_\_\_\_\_  
total square footage of skylights in each assembly: \_\_\_\_\_

**Exterior Walls** (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_  
Openings (windows or doors with glazing): \_\_\_\_\_  
U-Value of window/door: \_\_\_\_\_  
Solar heat gain coefficient: \_\_\_\_\_  
projection factor: \_\_\_\_\_  
Door R-Value: \_\_\_\_\_

**Walls below grade** (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_

**Floors over unconditioned space** (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_

**Floors slab on grade**

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_  
Horizontal/vertical requirement: \_\_\_\_\_  
slab heated: \_\_\_\_\_

**2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

**DESIGN LOADS:**

Importance Factors: Snow (I<sub>s</sub>)  $\frac{1.0}{1.0}$   
Seismic (I<sub>e</sub>)  $\frac{1.0}{1.0}$   
Live Loads: Roof  $\frac{N/A}{N/A}$  psf  
Mezzanine  $\frac{N/A}{N/A}$  psf  
Floor  $\frac{102}{102}$  psf  
Ground Snow Load:  $\frac{15}{15}$  psf  
Wind Load: Ultimate Wind Speed  $\frac{116}{116}$  mph (ASCE-7)  
Exposure Category  $\frac{B}{B}$

**SEISMIC DESIGN CATEGORY:** ☐ A ☒ B ☐ C ☐ D

Provide the following Seismic Design Parameters:

Risk Category (Table 1004.5) ☐ I ☒ II ☐ III ☐ IV

Spectral Response Acceleration  $S_{a1} = \frac{0.117}{0.117}$  %g  $S_{a2} = \frac{0.08}{0.08}$  %g

Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F

Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data

Basic structural system: ☐ Bearing Wall ☐ Dual w/Special Moment Frame

☒ Building Frame ☐ Dual w/Intermediate R/C or Special Steel

☐ Moment Frame ☐ Inverted Pendulum

Analysis Procedure: ☒ Simplified ☐ Equivalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored? ☐ Yes ☒ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

**SOIL BEARING CAPACITIES:**

Field Test (provide copy of test report) \_\_\_\_\_ psf

Presumptive Bearing capacity  $\frac{200}{200}$  psf

Pile size, type, and capacity \_\_\_\_\_

**2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

**MECHANICAL SUMMARY**

**MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT**

**Thermal Zone**

winter dry bulb: \_\_\_\_\_  
summer dry bulb: \_\_\_\_\_

**Interior design conditions**

winter dry bulb: \_\_\_\_\_  
summer dry bulb: \_\_\_\_\_  
relative humidity: \_\_\_\_\_

**Building heating load:** \_\_\_\_\_

**Building cooling load:** \_\_\_\_\_

**Mechanical Space Conditioning System**

Unitary

description of unit: \_\_\_\_\_

heating efficiency: \_\_\_\_\_

cooling efficiency: \_\_\_\_\_

size category of unit: \_\_\_\_\_

Boiler

Size category. If oversized, state reason: \_\_\_\_\_

Chiller

Size category. If oversized, state reason: \_\_\_\_\_

List equipment efficiencies: \_\_\_\_\_

**2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

**ELECTRICAL SUMMARY**

**ELECTRICAL SYSTEM AND EQUIPMENT**

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive  
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

**Lighting schedule** (each fixture type)

lamp type required in fixture  
number of lamps in fixture  
ballast type used in the fixture  
number of ballasts in fixture  
total wattage per fixture  
total interior wattage specified vs. allowed (whole building or space by space)  
total exterior wattage specified vs. allowed

**Additional Efficiency Package Options**

(When using the 2018 NCECC; not required for ASHRAE 90.1)

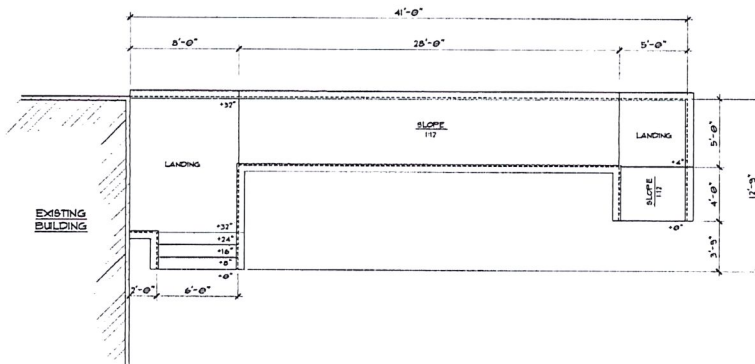
☐ C406.2 More Efficient HVAC Equipment Performance  
☐ C406.3 Reduced Lighting Power Density  
☐ C406.4 Enhanced Digital Lighting Controls  
☐ C406.5 On-Site Renewable Energy  
☐ C406.6 Dedicated Outdoor Air System  
☐ C406.7 Reduced Energy Use in Service Water Heating



Page 1

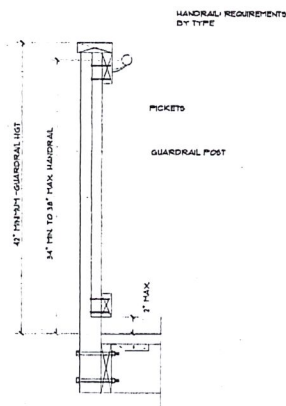


CLIENT: SIERRA STRUCTURES  
PROJECT: CARTER - ADA RAMP REBUILD  
LOCATION: 412 MORSON STREET, RALEIGH, NC  
SCALE: 1/4" = 1'-0" FOR MAIN FLOOR, NOT TO SCALE FOR TYPICAL, OR GROUND  
PROJECT NO.: 21901161  
DATE: 06/21/2021  
DRAWN BY: FAB  
CODE SUMMARY  
APP.B2

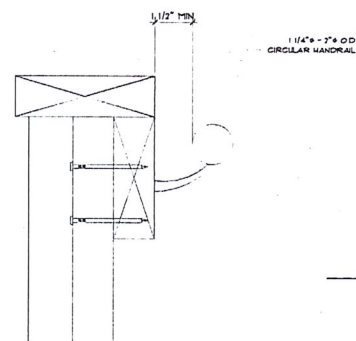


**DECK FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

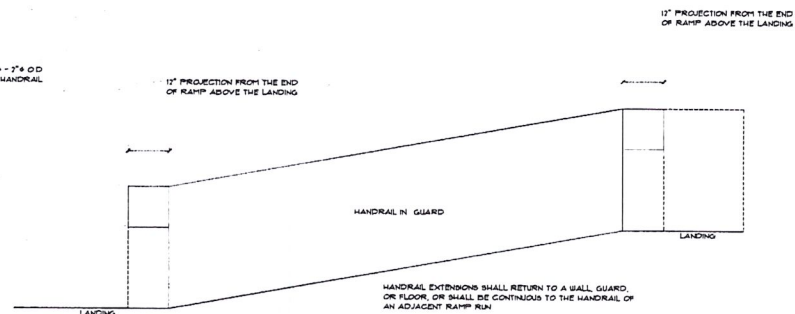
NOTE:  
- DIMENSIONS ARE TO INSIDE OF RAILING POSTS



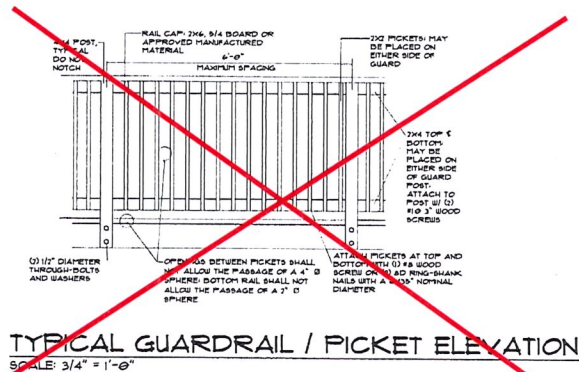
**GUARD SECTION W/ HANDRAIL**  
SCALE: 1" = 1'-0"



**CIRCULAR HANDRAIL**  
SCALE: 4" = 1'-0"



**TYPICAL HANDRAIL EXTENSION**  
SCALE: 3/4" = 1'-0"



NOTE:  
ALL FASTENERS TO BE GALVANIZED OR CORROSION RESISTANT.



**IPS Consulting**  
INCORPORATED  
10000 DAVENPORT DRIVE, SUITE 100  
RALEIGH, NC 27601  
TEL: 919.871.1111  
FAX: 919.871.1112  
WWW.IPSCONSULTING.COM

CLIENT: SIERRA STRUCTURES  
PROJECT: CARTER - ADA RAMP REBUILD  
LOCATION: 412 MORSON STREET, RALEIGH, NC  
SCALE: 1/4" = 1'-0" (IF NOT SPECIFIED OTHERWISE, ALL DIMENSIONS ARE IN FEET AND INCHES)

PROJECT NO: 21901161  
DATE: 06/21/2021  
DRAWN BY: FAB

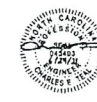
DECK FLOOR PLANS  
**B1.0**



**BEAM & POINT LOAD LEGEND**

=====	INTERIOR LOAD BEARING WALL
-----	ROOF RAFTER / TRUSS SUPPORT
-----	DOUBLE RAFTER / DOUBLE JOIST
=====	STRUCTURAL BEAM / GIRDER
=====	WINDOW / DOOR HEADER
□	POINT LOAD TRANSFER
■	POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

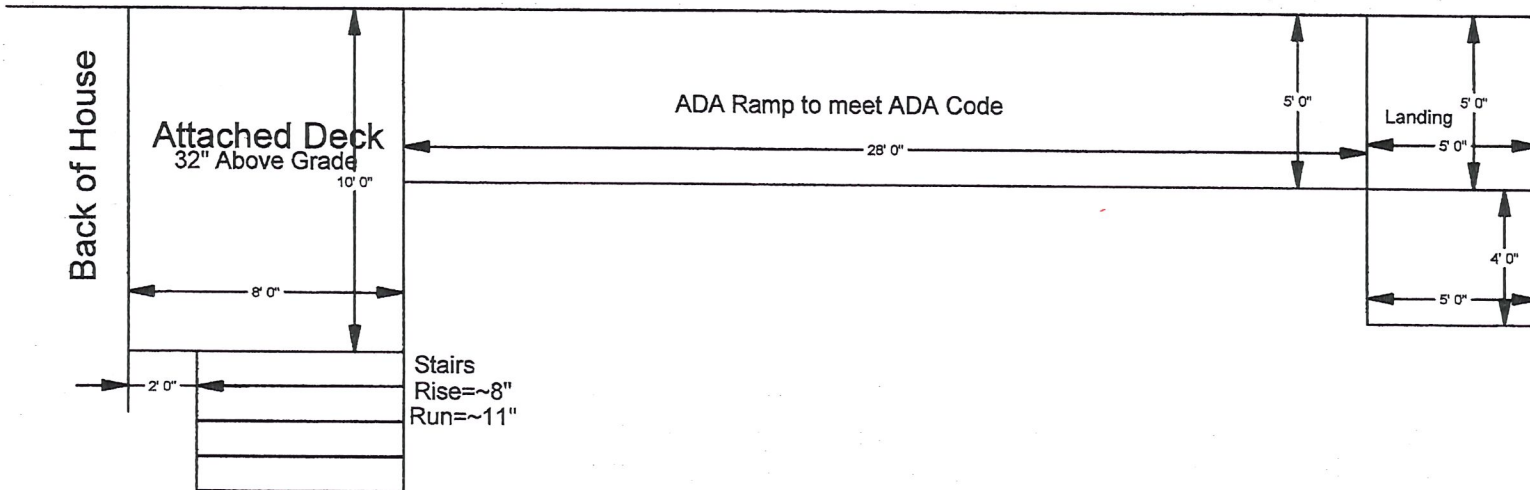
THE OWNER AND CONTRACTOR MUST IMMEDIATELY NOTIFY JDS CONSULTING IF ANY EXISTING CONDITIONS OR SITE CONDITIONS DO NOT ALLOW FOR THE IMPLEMENTATION OF THE INFORMATION IN THESE DRAWINGS. IF THE OWNER OR CONTRACTOR MAKES CHANGES IN THE FIELD WITHOUT CONSULTING JDS CONSULTING FOR A SOLUTION THEN ADDITIONAL SITE VISIT AND ENGINEERING FEES MAY APPLY TO REVIEW, MODIFY, AND OR APPROVE THE DEVIATION TO THESE PLANS.



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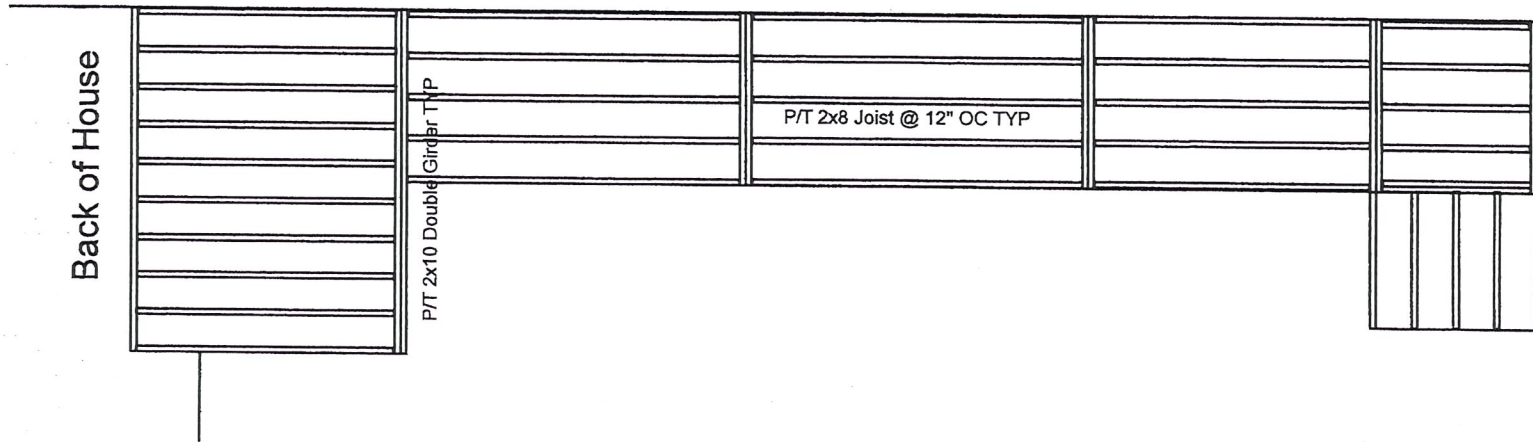
SIERRA STRUCTURES  
CARTER - ADA RAMP REBUILD  
412 MOBSON STREET, RALEIGH, NC  
SCALE: 1/4" = 1' (NOT FOR CONSTRUCTION)

PROJECT NO.	
21901161	
DATE	DRAWN BY
06/21/2021	FAB
DECK FRAMING PLANS	
S1.0	



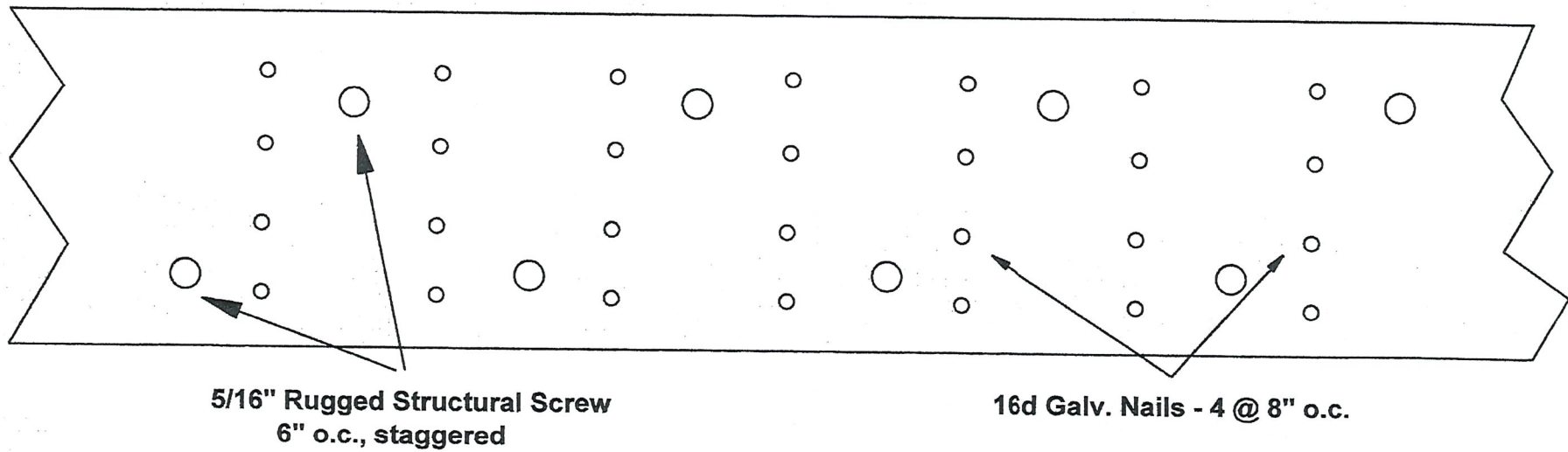
## Plan View





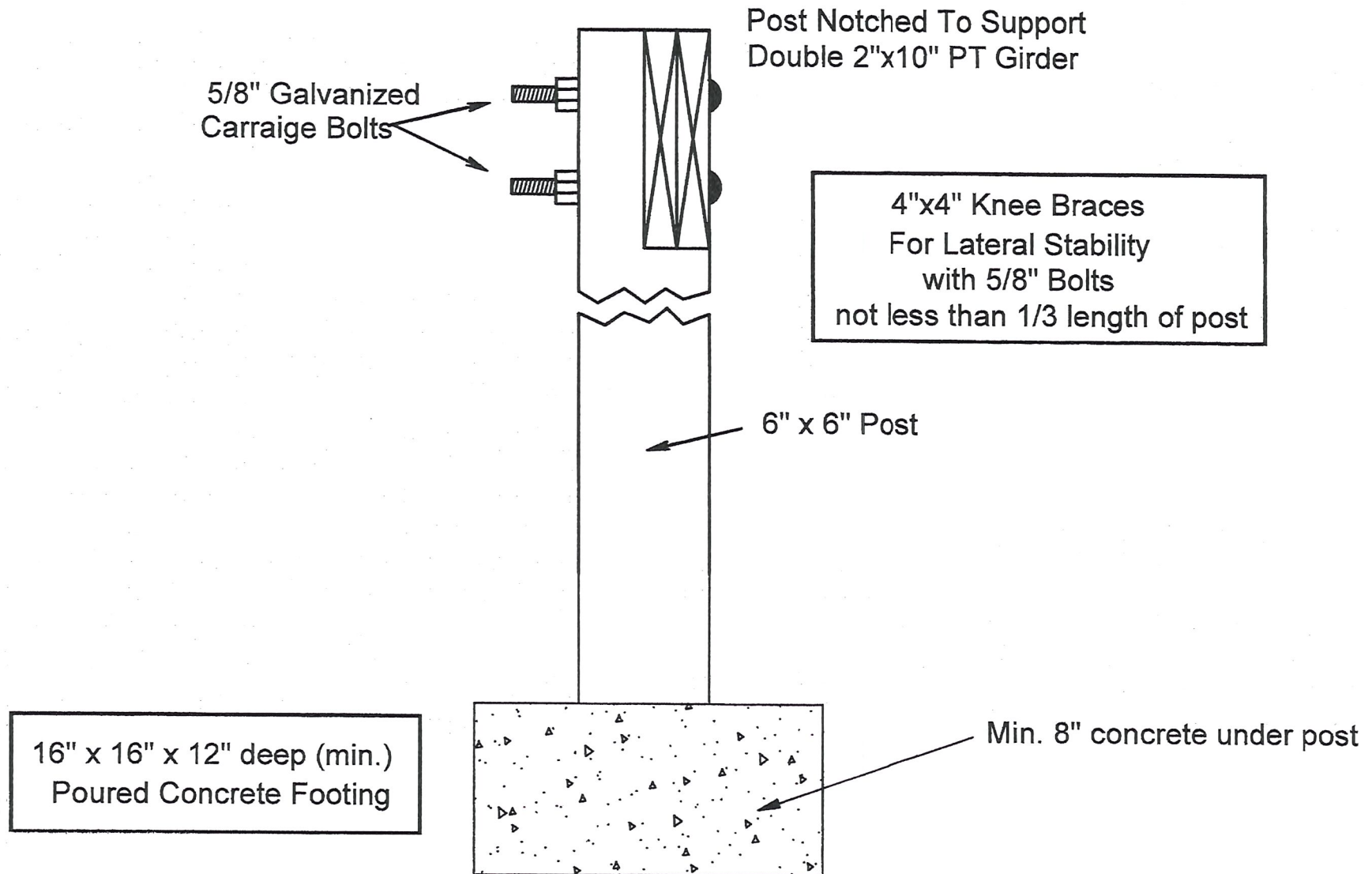
## Joist & Girder Layout

## Attached PT Band

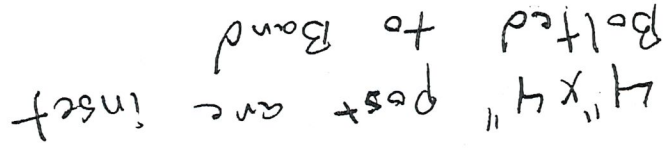


**Note: Siding Removed And PVC Flashing Installed**

## Attachment Band Detail



### Footer Detail



## Morton, Erin

---

**From:** Wendy Partin <wendyp@sierrastructures.com>  
**Sent:** Friday, September 17, 2021 8:30 AM  
**To:** Morton, Erin; Permits  
**Cc:** Kinane, Collette  
**Subject:** Re: COA-0136-2021 (412 Morson St) - Minor Work  
**Attachments:** Carter\_kristen\_Railing.drawing.Revised11x17.pdf; Carter\_kristen\_combined11x17drawings for resubmittal.pdf

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you verify that the attachment and content are safe. If you believe this email is suspicious, please click the 'Phish Alert' link in the banner to report this message.

1. Please format scaled drawings to a maximum size of 11x17. All information should be legible when printed at that scale.
2. **11x17 drawings Attached**
3. It appears that the proposed rear ramp will be installed in the same footprint, dimensions, and configuration as the existing ramp to be removed – is that correct? **YES**
4. Trex is approvable as a new ramp surface; how will the material be oriented on the framing? Will any cut ends be exposed? **all ends will be covered with 1x12 Fascia**
5. Will the proposed ramp be screened from below? If so, with what material? The openings under the ramp should be screened to be considered clearly congruous with the RHDC's [Design Guidelines](#). **below the ramp will be exposed , do we need to enclose?**
6. Although the existing railing posts and pickets are bolted/nailed through the face of the trim, this attachment detail does not clearly meet the Design Guidelines and cannot be approved by staff. Fences and railings should be constructed with a neighbor-friendly design, so that structural members face inward or the appearance is the same on both sides of the railing. See attached for an example image of an approvable inset railing detail. Would you consider amending your application to remain a minor work? Please provide updated materials if so. **Revised Drawing Attached**

---

**From:** Morton, Erin <Erin.Morton@raleighnc.gov>  
**Sent:** Tuesday, August 24, 2021 3:43 PM  
**To:** Permits <permits@sierrastructures.com>  
**Cc:** Kinane, Collette <Collette.Kinane@raleighnc.gov>  
**Subject:** COA-0136-2021 (412 Morson St) - Minor Work

Hi Wendy,

Thank you for submitting a minor work COA application for 412 Morson Street. We need some additional information in order to consider the application complete.

1. Please format scaled drawings to a maximum size of 11x17. All information should be legible when printed at that scale.
2. It appears that the proposed rear ramp will be installed in the same footprint, dimensions, and configuration as the existing ramp to be removed – is that correct?
3. Trex is approvable as a new ramp surface; how will the material be oriented on the framing? Will any cut ends be exposed?
4. Will the proposed ramp be screened from below? If so, with what material? The openings under the ramp should be screened to be considered clearly congruous with the RHDC's [Design Guidelines](#).
5. Although the existing railing posts and pickets are bolted/nailed through the face of the trim, this attachment detail does not clearly meet the Design Guidelines and cannot be approved by staff. Fences and railings should

be constructed with a neighbor-friendly design, so that structural members face inward or the appearance is the same on both sides of the railing. See attached for an example image of an approvable inset railing detail. Would you consider amending your application to remain a minor work? Please provide updated materials if so.

Please let us know if you have any questions. Thank you.

Best,  
Erin

**Erin Morton**

Preservation Planner II

**City of Raleigh**

Planning and Development

■ Raleigh Urban Design Center

919-996-2632 | [raleighnc.gov](http://raleighnc.gov)

For Planning and Development COVID-19 updates, [visit our information page.](#)