

WILLIAMSTON APARTMENTS STAIR REPLACEMENT

LANDER DELIVERY ORDER PROJECT NO.: DO97-02

LANDER UNIVERSITY

GREENWOOD, SC 29649

DESIGN CRITERIA

- ALL MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2015 EDITION. VARIATIONS ALLOWED BY THE INTERNATIONAL EXISTING BUILDING CODE, 2015 EDITION ARE CONSIDERED.
- DESIGN LOADS FOR STAIRS, WALKWAYS AND LANDINGS:
 - DEAD LOAD..... HEIGHT OF MATERIALS
 - LIVE LOAD..... STAIR TREADS AND LANDINGS 100 PSF OR 300# CONCENTRATED LOAD
 - LIVE LOAD..... WALKWAYS 60 PSF

BASIS FOR DESIGN

- THE WILLIAMSTON APARTMENT COMPLEX CONSISTS OF TWO-STORY BUILDINGS WITH EACH STAIR SERVICING A MAXIMUM OF FOUR 2ND LEVEL APARTMENTS. FIRST LEVEL APARTMENTS ARE ACCESSIBLE BUT 2ND LEVEL APARTMENTS ARE NOT CONSIDERED AS 'ACCESSIBLE'. STAIR WIDTH AT A MINIMUM OF 44" ARE REQUIRED FOR EGRESS OF NON-ACCESSIBLE SPACE AND ARE SUFFICIENT FOR THE OCCUPANT LOAD.

GENERAL REQUIREMENTS

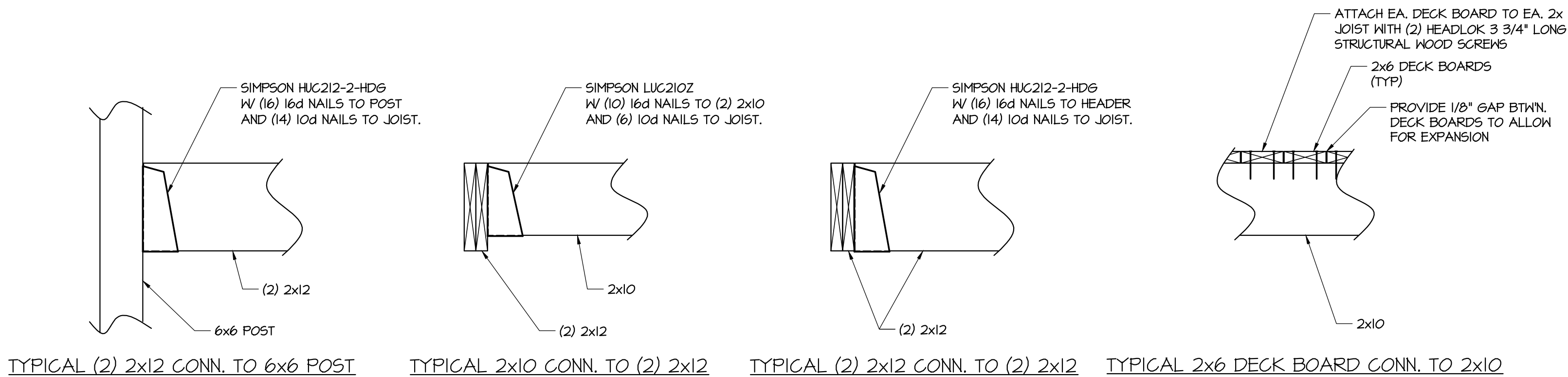
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITY LINES, CONDUIT, GRASSING, CONCRETE PADS, STRUCTURE, AND OTHER ITEMS WITHIN THE WORK AREAS. ANY DAMAGED ITEMS SHALL BE RETURNED TO CONDITION PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS AT THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING ALL WORK DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL OSHA AND STATE SAFETY REGULATIONS ON THE PROJECT SITE.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH DRAWINGS.
- SUBMIT SUBMITTALS IN THE FORM OF ONE ELECTRONIC PDF FILE AND TWO PRINTS FOR EACH SHEET OF SUBMITTAL DRAWINGS. SUBMIT DRAWINGS/DOCUMENTS FOR STRUCTURAL STEEL HANDRAIL, HARDWARE AND WOOD MATERIAL CERTIFICATIONS.
- REFER TO SPECIFICATION SECTION 02100 FOR ADDITIONAL REQUIREMENTS REGARDING DEMOLITION.
- REFER TO THE SPECIFICATIONS INCLUDED IN THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- AUXILIARY ITEMS (LIGHTS, CONDUIT, LANDSCAPING, ETC) SHALL BE PROTECTED DURING CONSTRUCTION. NOTIFY THE OWNER IF THESE ITEMS NEED TO BE TEMPORARILY REMOVED. THIS WORK TO BE COMPLETED BY THE OWNER.

GENERAL NOTES FOR CONCRETE

- ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS.
 - a) AIR ENTRAINMENT: 6% +/- 1% (EXTERIOR CONCRETE ONLY)
 - b) SLUMP: 4" +/- 1"
- ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, CONFORMING TO ASTM A615, GRADE 60. BAR DEFORMATIONS SHALL CONFORM TO ASTM A-305.
- ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
- SPLICE REINFORCING AS SCHEDULED BELOW (UNLESS OTHERWISE NOTED):
 - #4 - 24" • #5 - 30" • #6 - 36"
- MINIMUM CONCRETE COVER OVER REINFORCING UNLESS NOTED OTHERWISE:
 - UNFORMED SURFACES IN CONTACT WITH GROUND - 3 INCHES
 - FORMED SURFACES EXPOSED TO EARTH OR WEATHER - 2 INCHES
 - FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER - 3/4 INCH
- CURING AND PROTECTION:
 - a) PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES, AND MAINTAIN WITHOUT DRYING AT A RELATIVELY CONSTANT TEMPERATURE OR PERIOD OF TIME NECESSARY FOR HYDRATION OF CEMENT, AND FOR PROPER HARDENING OF CONCRETE.
 - b) CURING FOR CONCRETE PADS AND SIDEWALKS SHALL BE BY MOIST CURING FOR 5 DAYS OR CURING COMPOUND CONFORMING TO ASTM C309. THE CURING COMPOUND SHALL BE APPLIED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO MAINTAIN A WORKMAN'S HEIGHT. CURING COMPOUND SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
 - c) AFTER REMOVAL OF SIDE FORMS OR END FORMS PRIOR TO (7) DAYS OF CURE TIME, COAT NEWLY EXPOSED SURFACES WITH CURING COMPOUND.
- CONTRACTOR SHALL PROVIDE 3/4" CHAMFER AT ALL EXPOSED CONCRETE CORNERS AND DOOR OPENINGS (I.N.O.).
- ALL CONCRETE REINFORCEMENT BARS SHALL BE COLD BENT.

GENERAL NOTES FOR WOOD

- REFER TO ROUGH CARPENTRY SPECIFICATION SECTION 06100 FOR ADDITIONAL REQUIREMENTS.
- MATERIALS AND BLOCKING SHALL MEET THE MINIMUM REQUIREMENTS OF THE SFPA PUBLICATION FOR SOUTHERN YELLOW PINE NO. 2. ALL MATERIAL SHALL BE PRESURE TREATED TO MEET CATEGORY UC3B REQUIREMENTS AS DESIGNATED BY THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA).
- ALL WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATION" LATEST EDITION , BY THE AMERICAN FOREST AND PAPER ASSOCIATION.
- ALL SCREWS, BOLTS, WASHERS, NUTS, AND NAILS SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED. HOT-DIPPED GALVANIZED FASTENERS SHALL MEET THE REQUIREMENTS OF ASTM A 153, CLASS D FOR FASTENERS 3/8" DIAMETER AND SMALLER OR CLASS C FOR FASTENERS WITH DIAMETERS OVER 3/8".
- ALL CONNECTORS (JOIST HANGERS, POST ANCHORS, ETC.) SHALL BE GALVANIZED OR STAINLESS STEEL. HARDWARE TO BE HOT-DIPPED GALVANIZED PRIOR TO FABRICATION SHALL MEET ASTM A 653, G-185 COATING. HARDWARE TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION SHALL MEET ASTM A 123.
- WHERE APPLICABLE, CONTRACTOR SHALL PRE-DRILL LEAD HOLES FOR EACH LAG BOLT W/ DRILL DIAMETER TO BE 0.60 x LAG BOLT DIAMETER. PRE-DRILLED LEAD HOLE SHALL BE 0.75 x LAG BOLT LENGTH.
- CONTRACTOR SHALL PROVIDE TEMPORARY LATERAL BRACING FOR STRUCTURE UNTIL PERMANENT LATERAL BRACING AND ALL CONNECTIONS HAVE BEEN CONSTRUCTED.
- COAT FIELD CUT EDGES OF EXPOSED MATERIAL WITH AN AMPLE COATING OF BITUMASTIC COAL TAR EPOXY.
- AFTER CONSTRUCTION OF DECKS AND STAIRS ARE COMPLETE, COAT ALL EXPOSED WOOD SURFACES WITH 2 COATS OF SOLID WOOD STAIN. AN ANTI-SLIP AGGREGATE SHALL BE ADDED TO THE SECOND COAT OF STAIN APPLIED TO WALKING SURFACES. STAIN SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR COATING NEW PRESSURE TREATED LUMBER AS AGING TIME PRIOR TO COATING SHALL BE DETERMINED BY THE WATER DROPLET ABSORPTION TEST. EQUIVALENT PRODUCTS FOR STAIN AND NON-SLIP PRODUCTS USED AS A BASIS OF DESIGN CAN BE SUBMITTED FOR APPROVAL. REFER TO EXTERIOR PAINTING SPECIFICATION SECTION 09431 FOR ADDITIONAL REQUIREMENTS.
- ALL HARDWARE (CONNECTORS, SCREWS, BOLTS, ETC) SHALL BE AS CALLED FOR ON THE DRAWINGS OR APPROVED EQUAL.

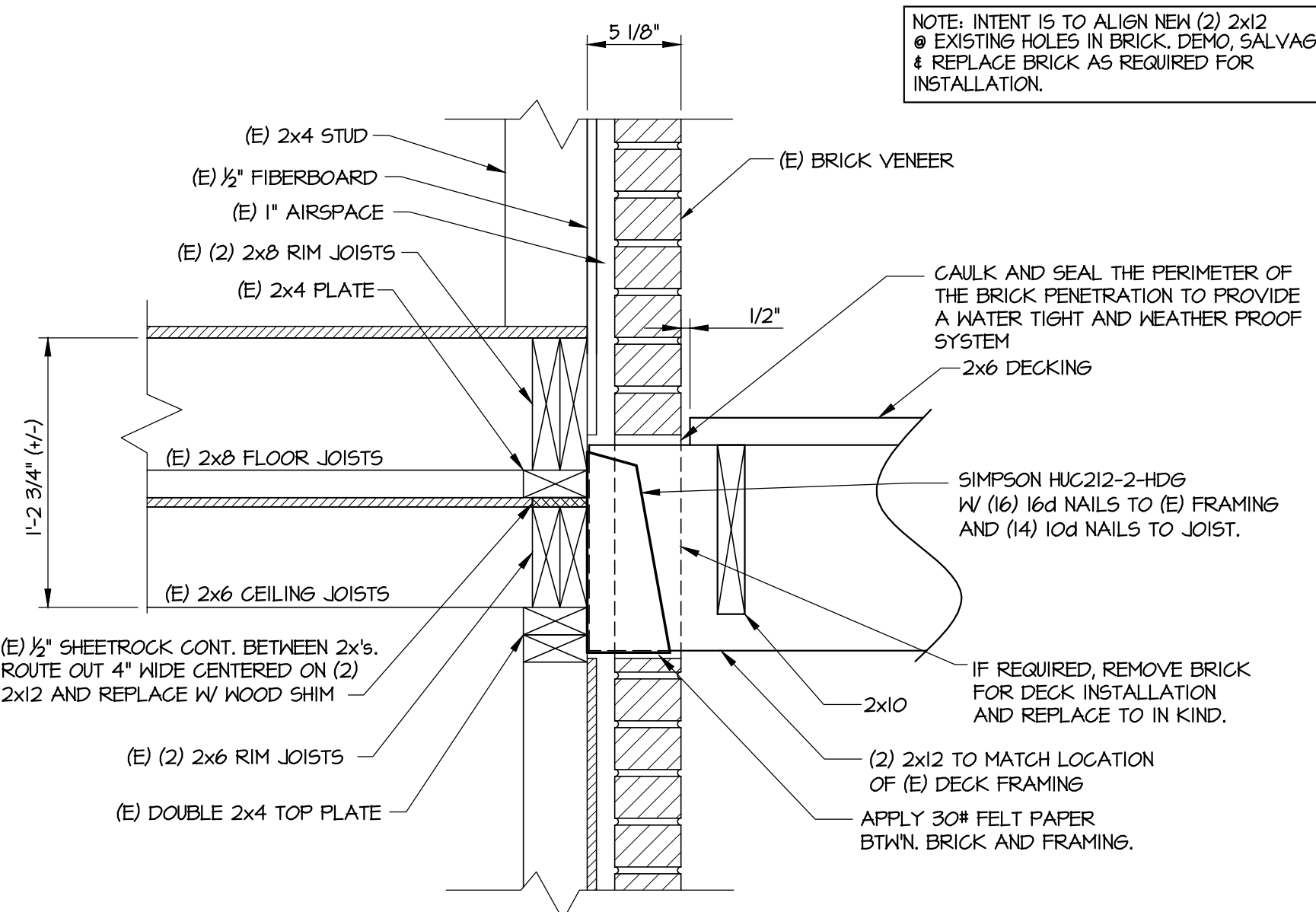


DETAIL A
SCALE: 1" = 1'-0"

DETAIL B
SCALE: 1" = 1'-0"

DETAIL C
SCALE: 1" = 1'-0"

DETAIL D
SCALE: 1" = 1'-0"



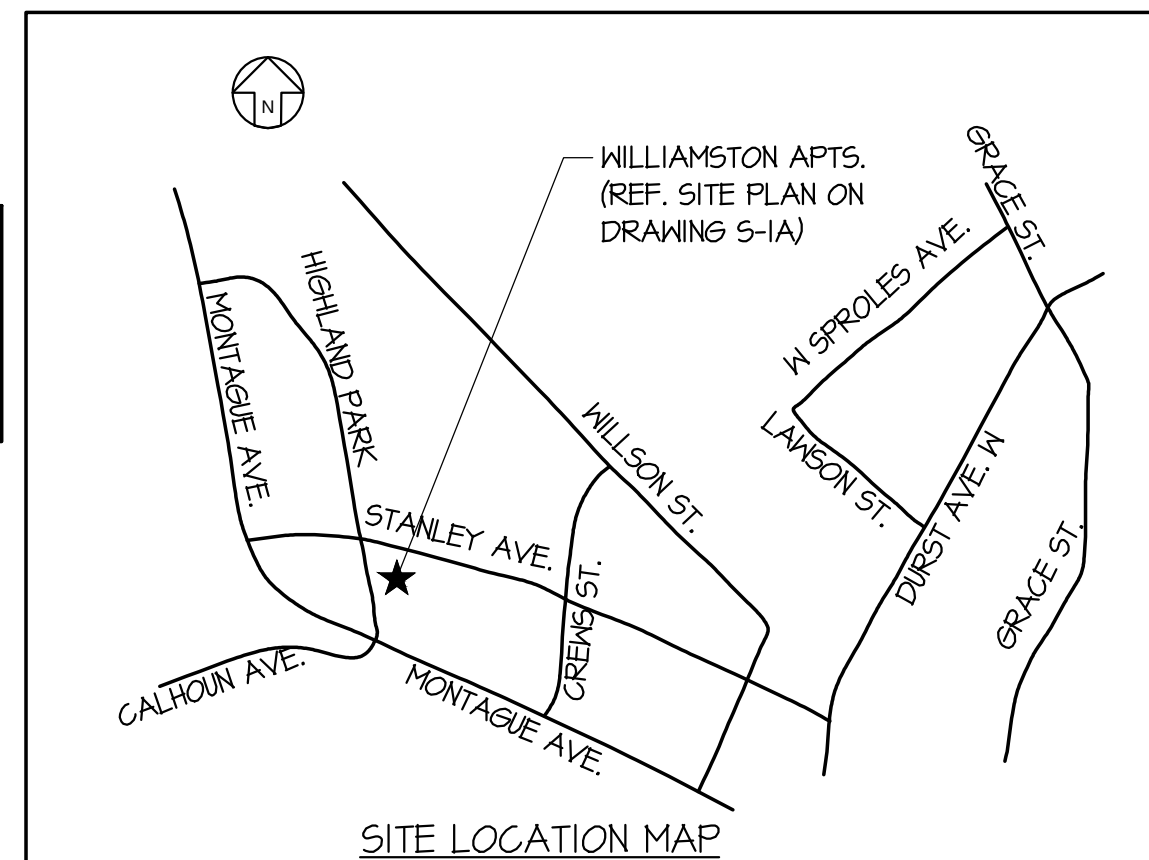
TYPICAL (2) 2x12 CONN. TO (E) STRUCTURE

SECTION 1
SCALE: 1 1/2" = 1'-0"

NOTE: EXISTING STAIRS @ EACH LOCATION TO BE DEMOLISHED. REF. PHOTO A/S-2 FOR DOUBLE ACCESS STAIR EXAMPLE TYP. (5). B/S-2 FOR SINGLE ACCESS STAIR STRAIGHT RUN TYP. (2). C/S-2 FOR SINGLE ACCESS STAIR W/ SWITCH BACK TYP. (4)

DRAWING INDEX

S-1	COVER SHEET, NOTES, TYPICAL DETAILS AND KEY PLAN
S-1A	SITE LAYOUT + FOUNDATION PLAN
S-2	FRAMING PLANS AND SECTION
S-3	FRAMING PLAN, SECTIONS AND DETAILS
S-4	STAIR SECTIONS
S-5	FOUNDATION SECTIONS



SITE LOCATION MAP

BID INSTRUCTIONS

BID SHALL BE PROVIDED W/ A LUMP SUM COST FOR THE REPLACEMENT OF THE (6) SINGLE ACCESS STAIRS (REF. PLANS ON S-2) AND A PER UNIT COST ON THE REPLACEMENT OF THE (5) DOUBLE ACCESS STAIRS (REF. PLANS ON S-3). REF. BID FORM FOR MORE INFO.

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: WILLIAMSTON APARTMENTS STAIR REPLACEMENT
LOCATION: LANDER UNIVERSITY
GREENWOOD, SOUTH CAROLINA
OWNER: LANDER UNIVERSITY
OWNER'S ADDRESS: 320 STANLEY AVENUE,
GREENWOOD, SOUTH CAROLINA 29644

STRUCTURAL ENGINEER OF RECORD: BRIAN A. ROBERTSON, SOUTH CAROLINA P.E. # 10862

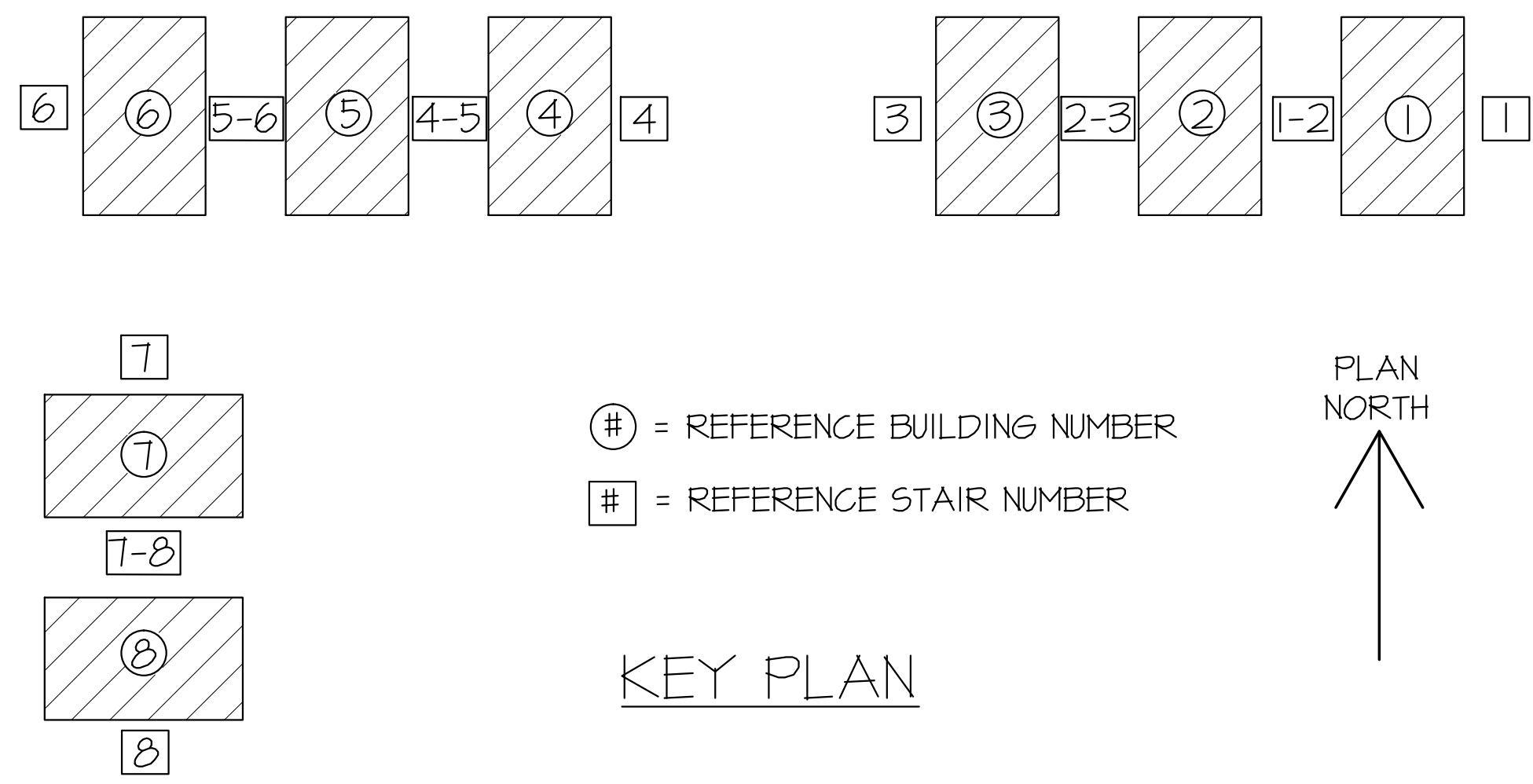
THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT AS WELL AS THE NAME OF THE SPECIAL INSPECTOR AND THE IDENTITY OF OTHER APPROVED AGENCIES INTENDED TO BE RETAINED FOR CONDUCTION THESE INSPECTIONS.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE OWNER'S REPRESENTATIVE AND STRUCTURAL ENGINEER. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, STRUCTURAL ENGINEER AND ARCHITECT OF RECORD. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE AND STRUCTURAL ENGINEER.

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTION SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.



⊕ = REFERENCE BUILDING NUMBER
= REFERENCE STAIR NUMBER

KEY PLAN

Robertson
Wade Inc.
ENGINEERING



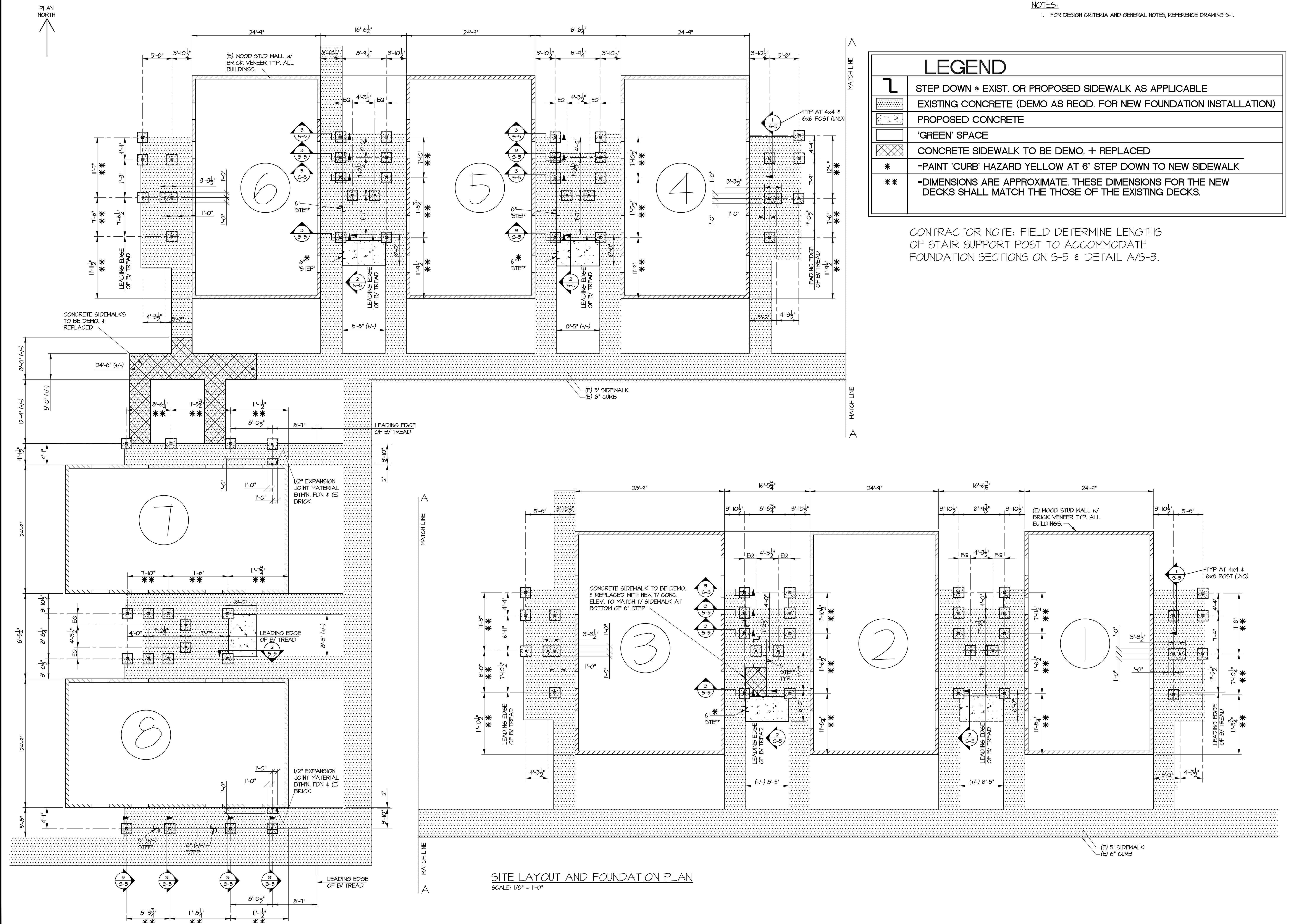
DATE	05/01/2019
ISSUE FOR	BIDS
BY	
DATE	
BY	

PROJECT: REPLACEMENT OF STAIRS & DECKS
WILLIAMSTON APARTMENTS AT LANDER UNIVERSITY
GREENWOOD, SC

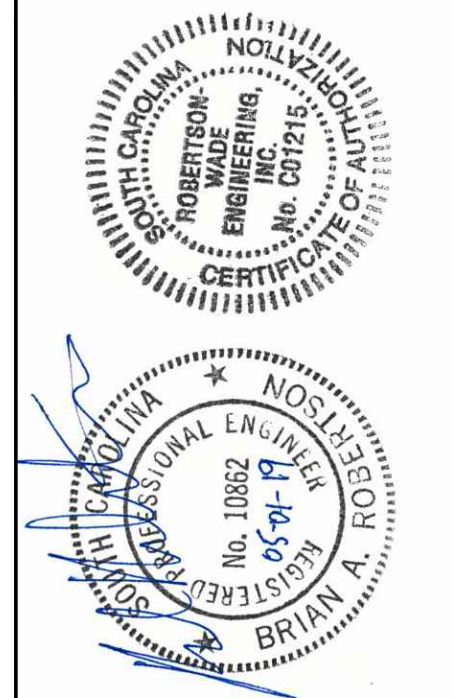
CLIENT: LANDER UNIVERSITY

TITLE: COVER SHEET, NOTES, TYPICAL DETAILS AND KEY PLAN

DRAWN BY:	JCS
CHECKED BY:	BAR
DATE	04/01/2019
SCALE:	AS NOTED
R/W PROJECT NUMBER	19008B
SHEET NUMBER	S-1



Robertson
Wade Inc.
ENGINEERING



DATE	05/01/2019
ISSUE FOR	BIDS

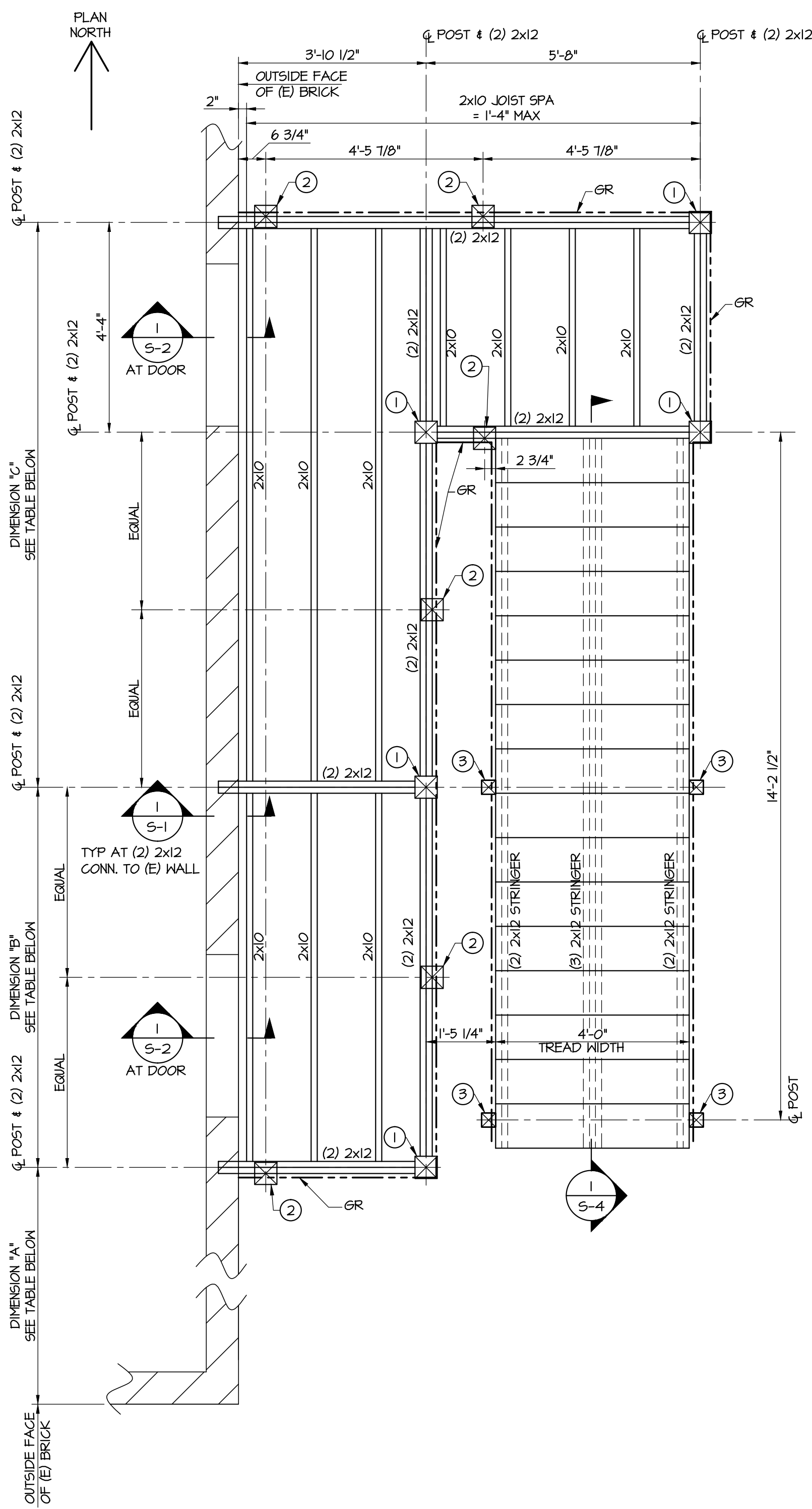
PROJECT: REPLACEMENT OF STAIRS & DECKS
WILLIAMSTON APARTMENTS AT LANDER UNIVERSITY
GREENWOOD, SC

CLIENT: LANDER UNIVERSITY

TITLE: SITE LAYOUT & FOUNDATION PLAN

DRAWN BY:	JCS
CHECKED BY:	BAR
DATE:	04/01/2019
SCALE:	AS NOTED
R/W PROJECT NUMBER:	19008B
SHEET NUMBER:	

S-1A



DECK FRAMING PLAN AT STAIR 1

DECK FRAMING PLAN AT STAIR 3 (OPP. HAND)

DECK FRAMING PLAN AT STAIR 4

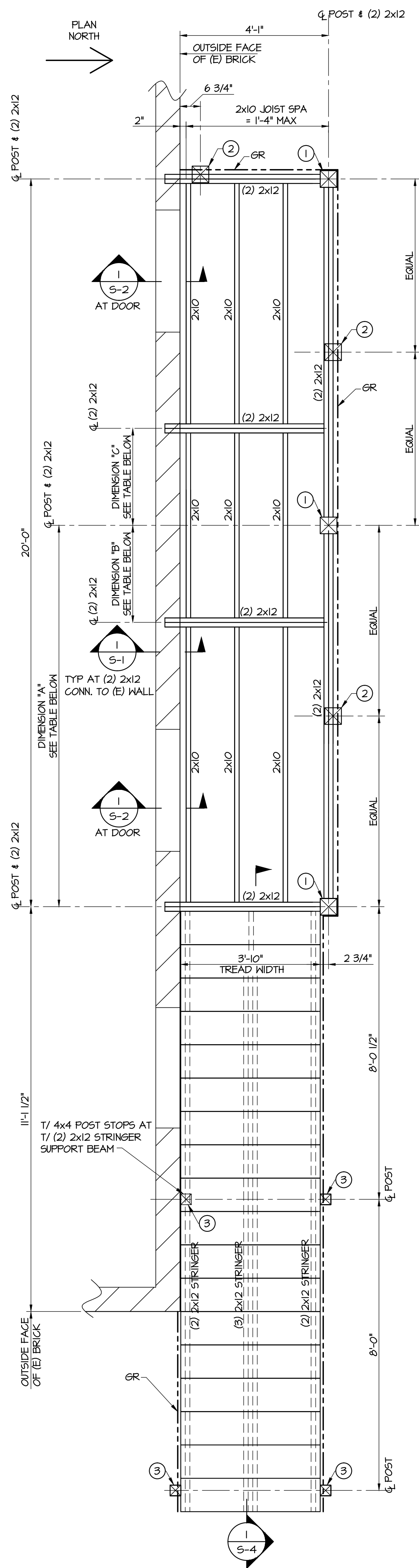
DECK FRAMING PLAN AT STAIR 6 (OPP. HAND)

SCALE: 1/2" = 1'-0"

GR = GUARD RAIL PER DETAIL A/S-3
(E) = EXISTING

KEY NOTES

- 6x6 POST FROM NEW FOUNDATION BELOW TO BOTTOM OF GUARDRAIL TOP RAIL.
- 6x6 INTERMEDIATE POST EXTENDS FROM BOTTOM OF DECK FRAMING TO BOTTOM OF GUARDRAIL TOP RAIL. SEE DETAIL B/S-3
- 4x4 STAIR SUPPORT POST SEE DRAWING S-4



DECK FRAMING PLAN AT STAIR 1

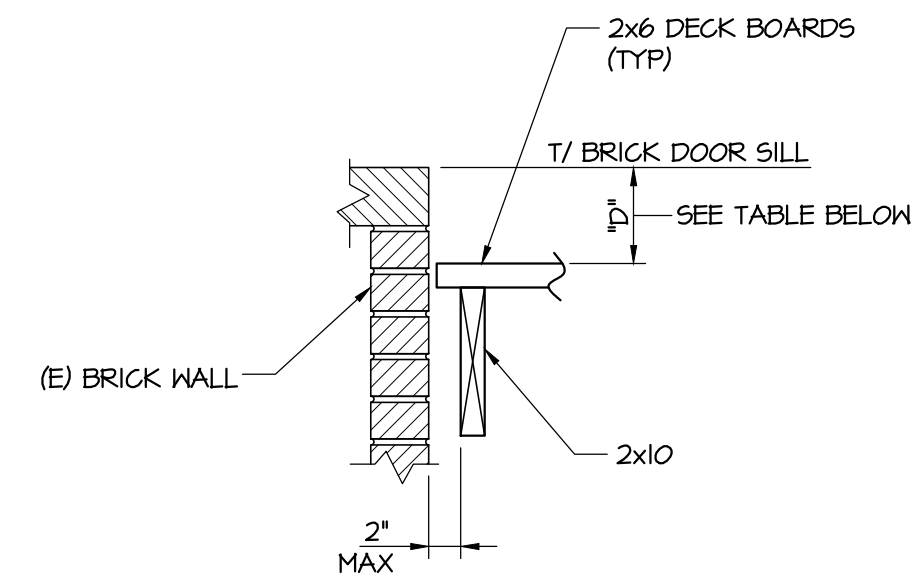
DECK FRAMING PLAN AT STAIR 3 (OPP. HAND)

SCALE: 1/2" = 1'-0"

GR = GUARD RAIL PER DETAIL A/S-3
(E) = EXISTING

NOTES:

- FOR DESIGN CRITERIA AND GENERAL NOTES, REFERENCE DRAWING S-1.



SECTION

SCALE: 1" = 1'-0"

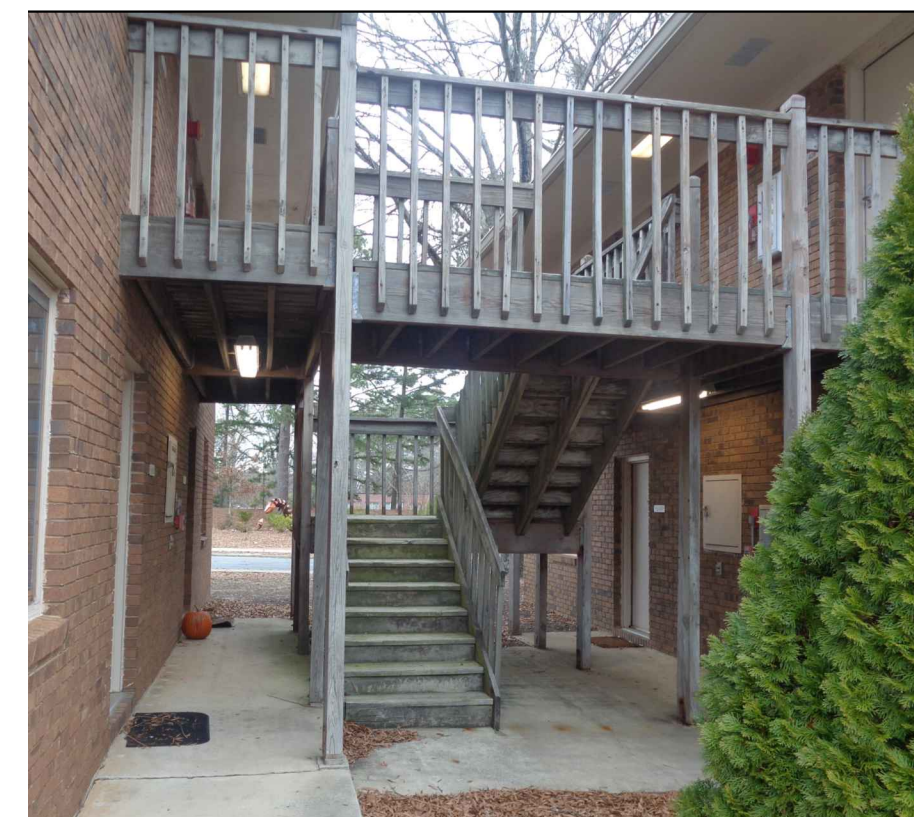


PHOTO A/S-2 DOUBLE ACCESS STAIR



PHOTO B/S-2 SINGLE ACCESS STAIR STRAIGHT

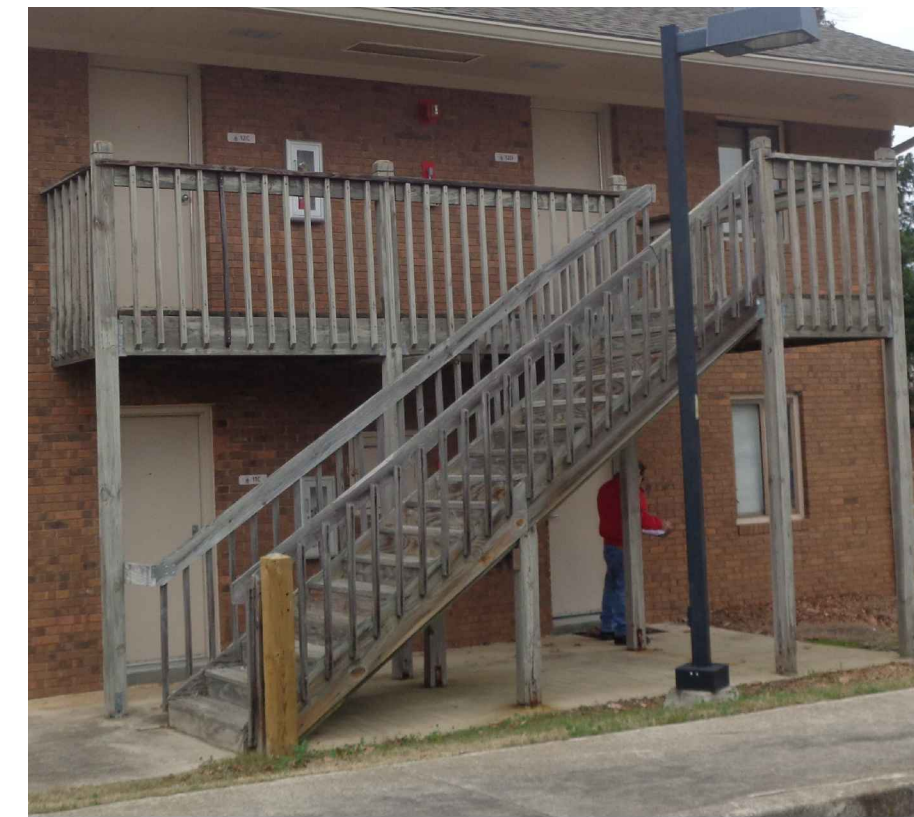


PHOTO C/S-2 SINGLE ACCESS STAIR SWITCH BACK

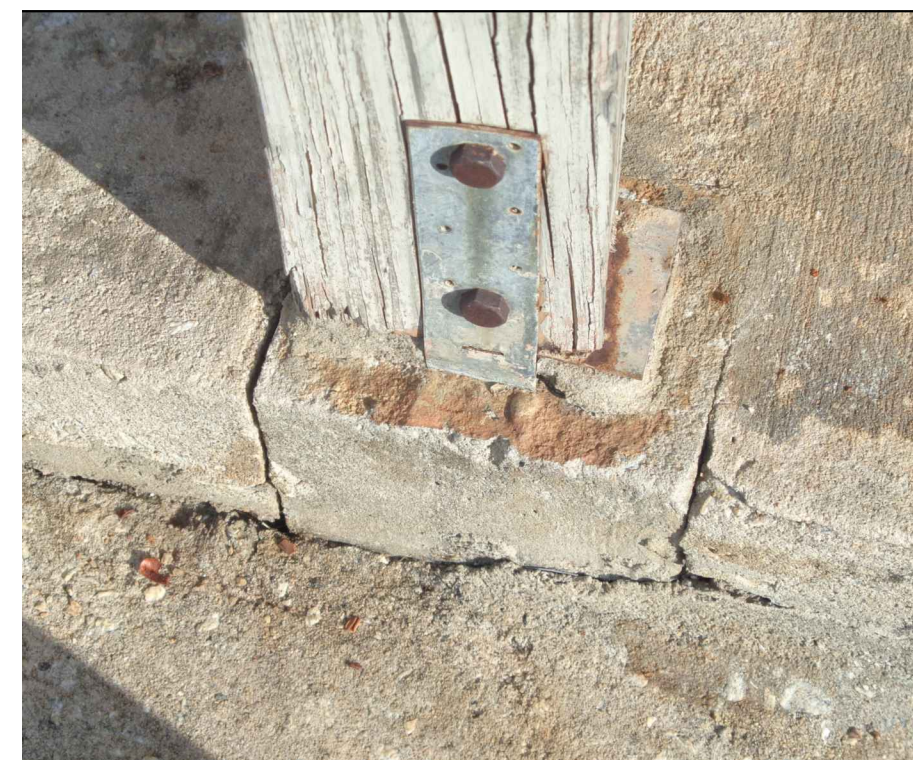
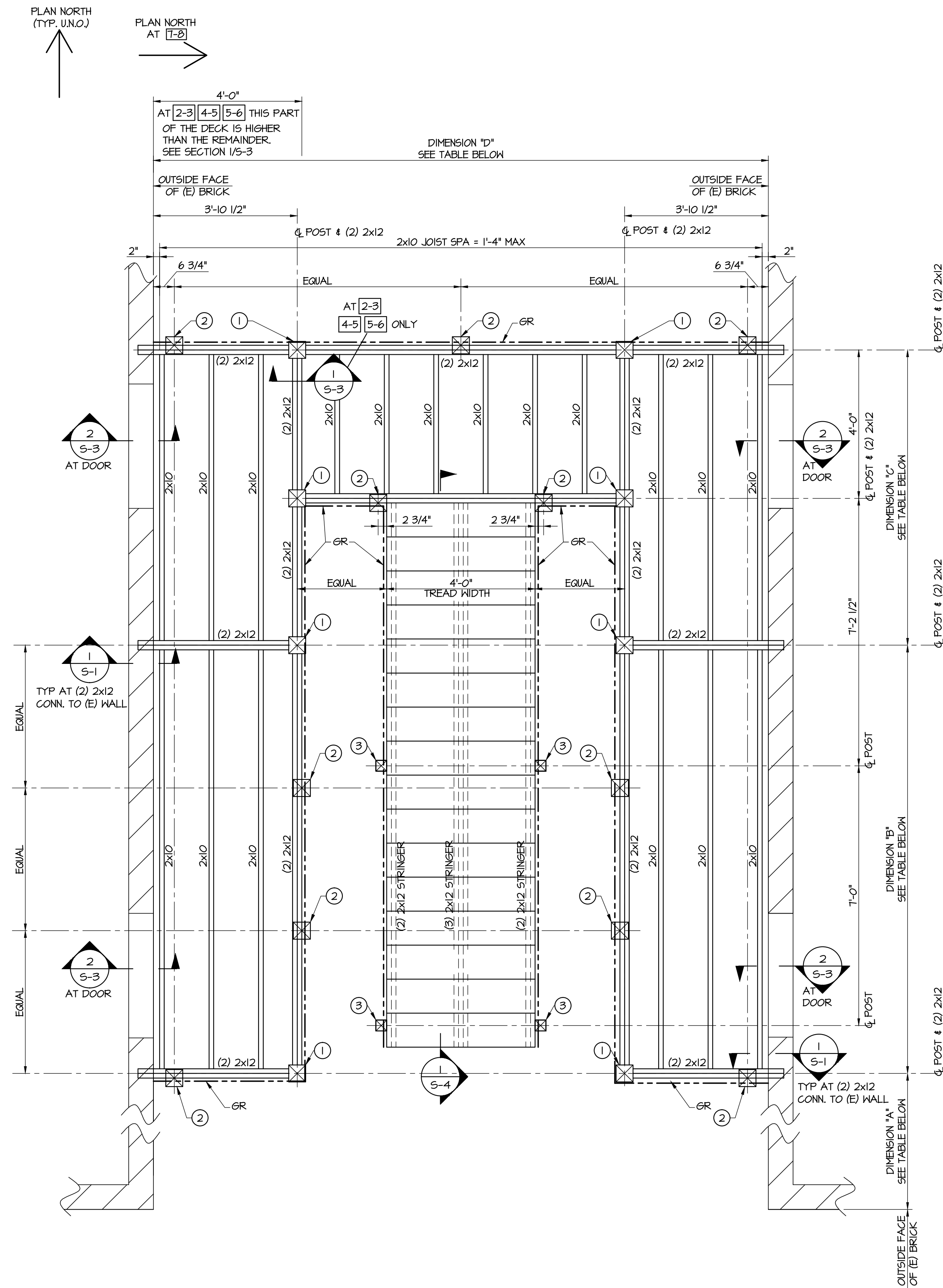


PHOTO D/S-2 CONCRETE PIER TO BE DEMOLISHED AS PART OF NEW COLUMN FOOTING INSTALLATION

DIMENSION TABLE

REFERENCE STAIR # (SEE KEY PLAN ON DRAWING S-1)	* DIMENSION "A"	* DIMENSION "B"	* DIMENSION "C"	* DIMENSION "D"
1	11'-5 3/4"	7'-10 1/4"	11'-8"	4 3/4"
3	11'-10 1/2"	8'-0"	11'-3"	5"
4	11'-4 1/2"	7'-6"	12'-1"	4 3/4"
6	11'-11 1/2"	7'-6"	11'-7"	5 1/4"
7	11'-5 3/4"	2'-8"	2'-8"	5 1/2"
8	10'-8 1/4"	2'-8 1/4"	2'-8 3/4"	5 1/8"

* = DIMENSIONS ARE APPROXIMATE. THESE DIMENSIONS FOR THE NEW DECKS SHALL MATCH THE THOSE OF THE EXISTING DECKS.



DECK FRAMING PLAN AT STAIR 1-2
 DECK FRAMING PLAN AT STAIR 2-3
 DECK FRAMING PLAN AT STAIR 4-5
 DECK FRAMING PLAN AT STAIR 5-6
 DECK FRAMING PLAN AT STAIR 7-8
 SCALE: 1/2" = 1'-0"
 GR = GUARD RAIL PER DETAIL A/5-3
 (E) = EXISTING

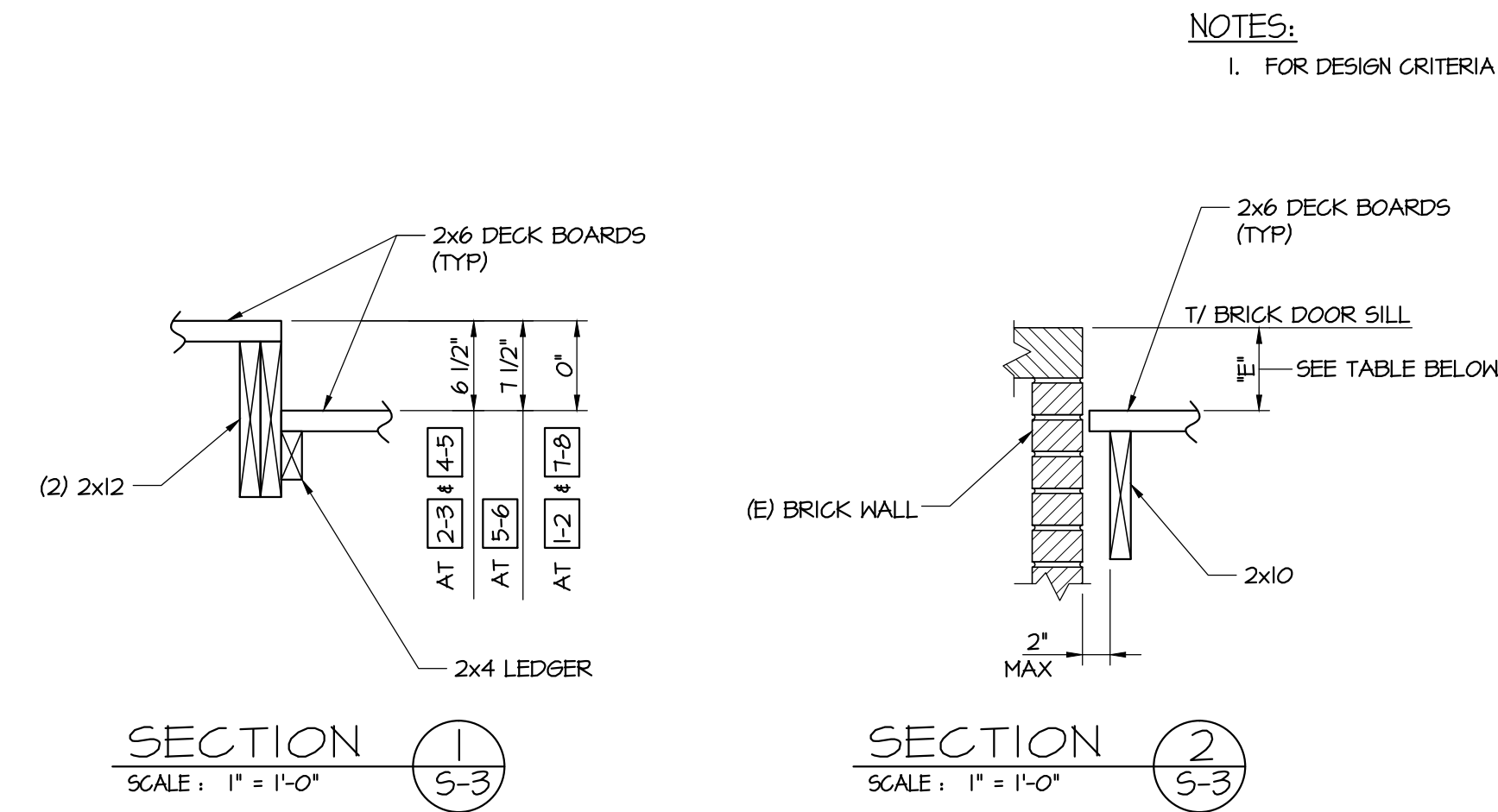
KEY NOTES

- 6x6 POST FROM NEW FOUNDATION BELOW TO BOTTOM OF GUARDRAIL TOP RAIL.
- 6x6 INTERMEDIATE POST EXTENDS FROM BOTTOM OF DECK FRAMING TO BOTTOM OF GUARDRAIL TOP RAIL. SEE DETAIL B/5-3
- 4x4 STAIR SUPPORT POST. REF. SECTION 2/5-4. GR = GUARD RAIL REF. A/5-3

DIMENSION TABLE

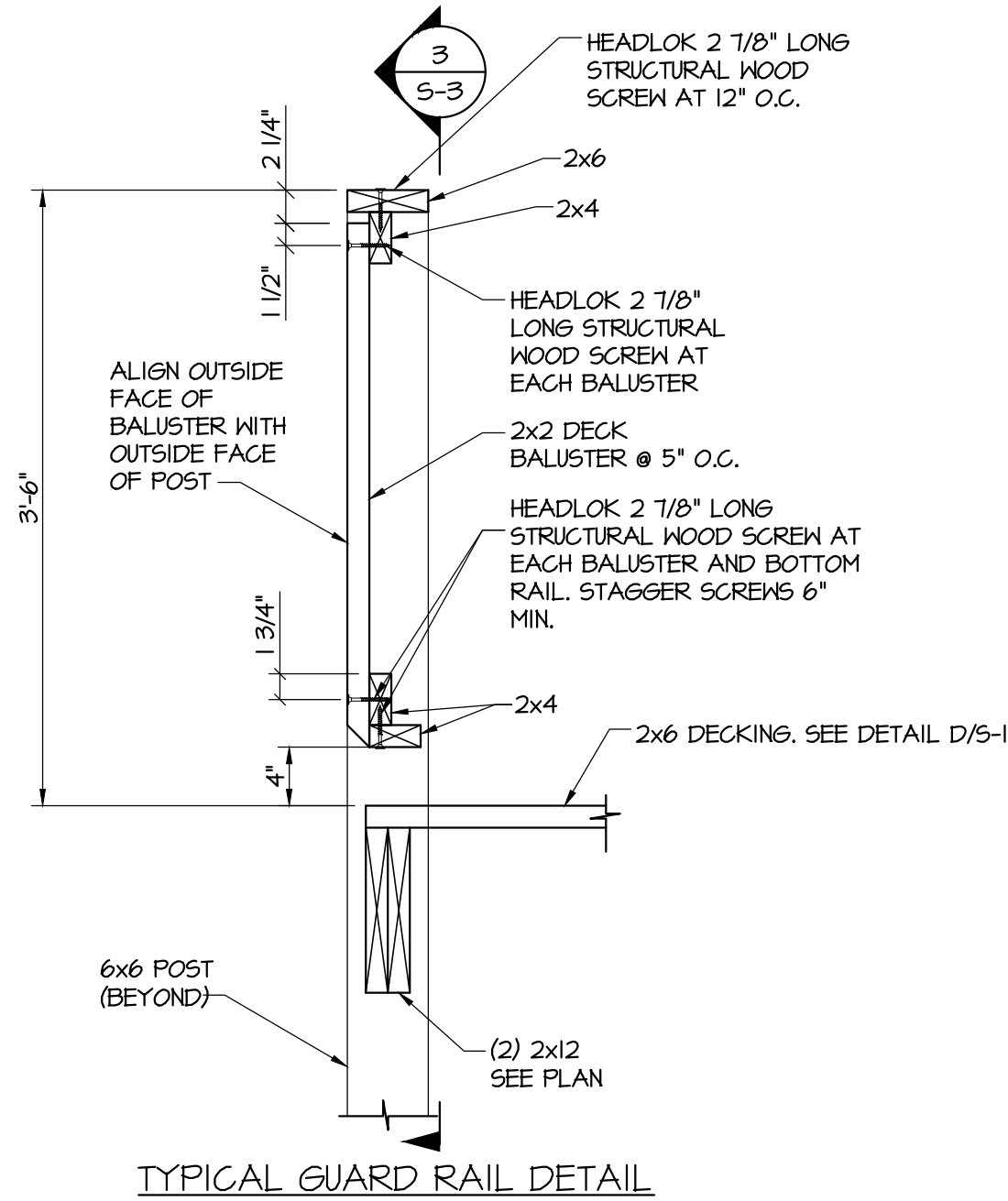
REFERENCE STAIR # (SEE KEY PLAN ON DRAWING 5-1)	* DIMENSION "A"	* DIMENSION "B"	* DIMENSION "C"	DIMENSION "D"	* DIMENSION "E"
1-2	11'-8 1/4"	11'-6 1/2"	7'-11 1/2"	16'-6 7/8"	6"
2-3	11'-8 1/4"	11'-6 1/2"	7'-10 1/2"	16'-5 3/4"	4 3/4"
4-5	11'-4"	11'-5 1/2"	7'-10 1/2"	16'-6 7/8"	5 1/2" @ 4, 5" @ 5
5-6	11'-4 1/2"	11'-5 3/4"	7'-10"	16'-5 3/4"	5 1/2" @ 5, 5 3/4" @ 6
7-8	11'-7 3/4"	11'-6"	7'-10"	16'-6 7/8"	5 1/2"

* = DIMENSIONS ARE APPROXIMATE. THESE DIMENSIONS FOR THE NEW DECKS SHALL MATCH THE THOSE OF THE EXISTING DECKS.
 INTENT IS TO USE EXISTING HOLES IN BRICK VENEER TO ATTACH (2) 2x12 TO BUILDING FRAMING PER SECTION 1/5-1.



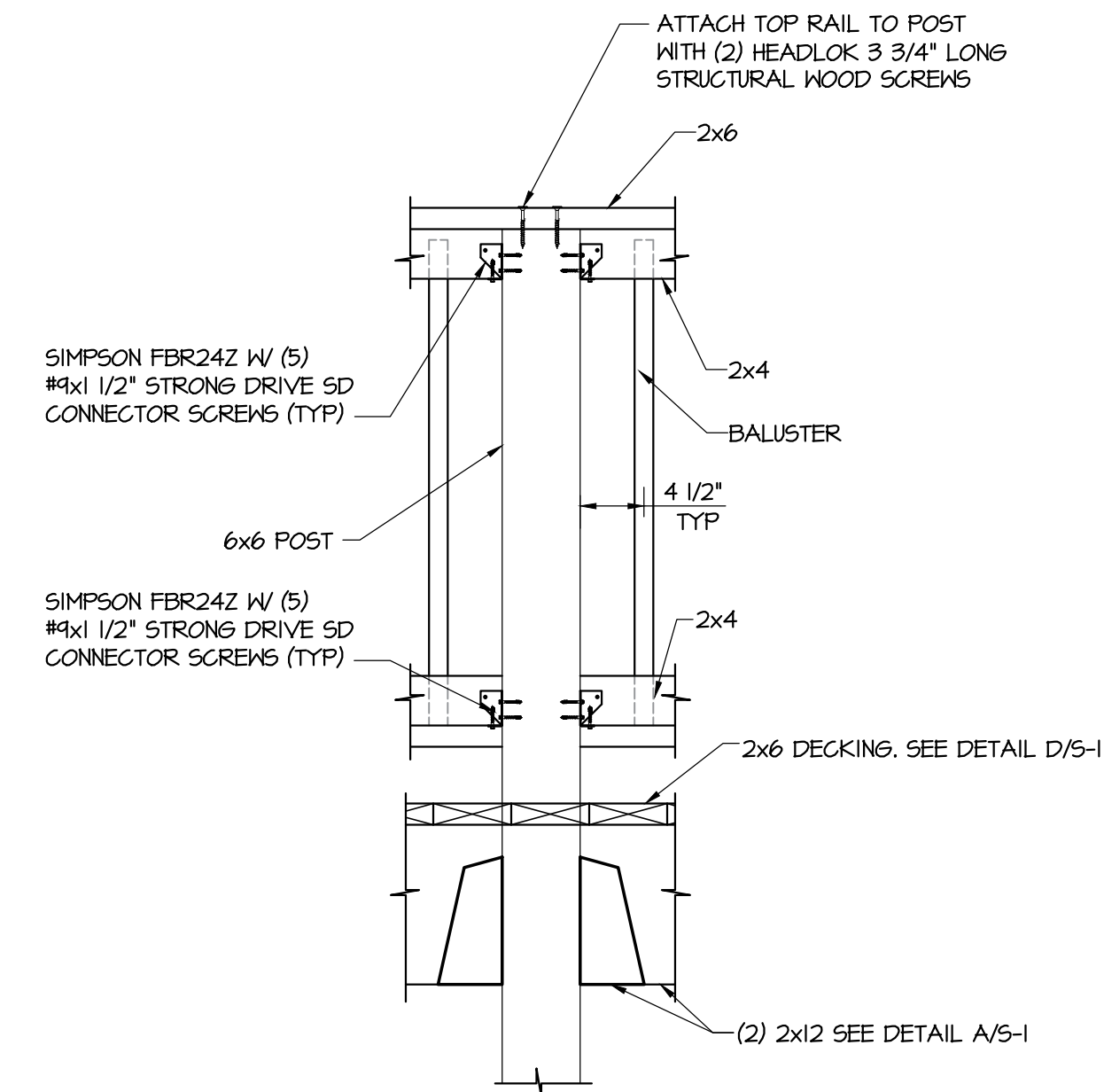
NOTES:

- FOR DESIGN CRITERIA AND GENERAL NOTES, REFERENCE DRAWING 5-1.

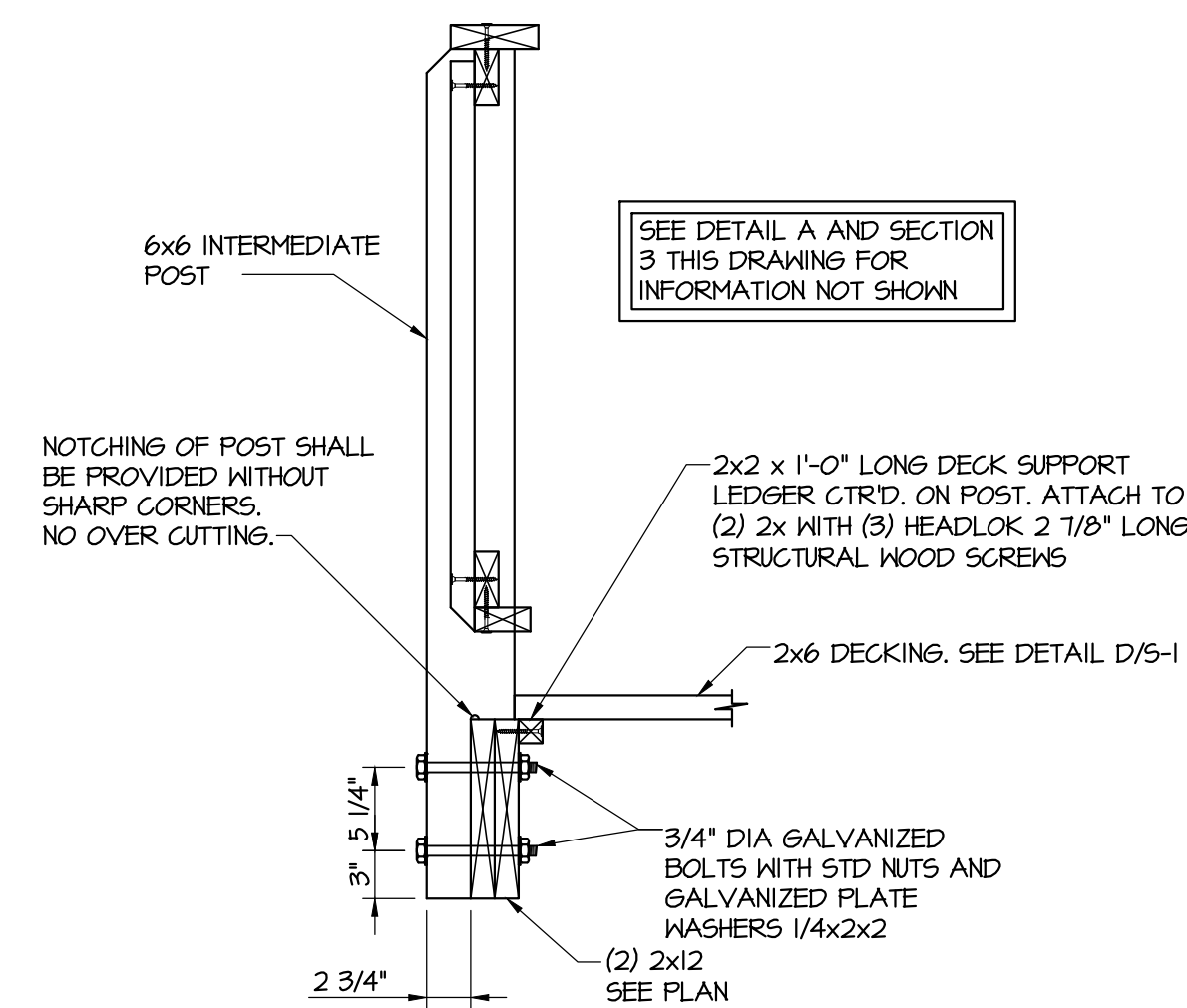


TYPICAL GUARD RAIL DETAIL

DETAIL A
 SCALE: 1" = 1'-0"



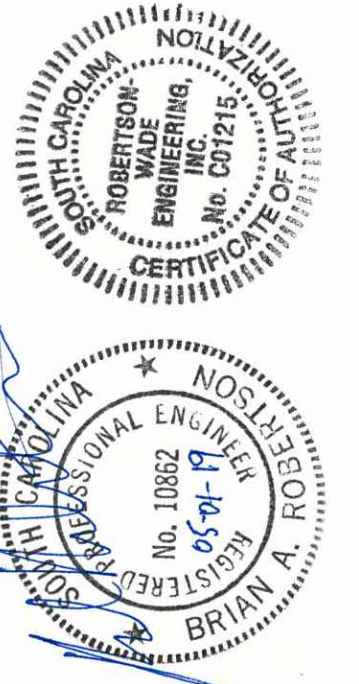
SECTION 3
 SCALE: 1" = 1'-0"



TYPICAL INTERMEDIATE POST DETAIL

DETAIL B
 SCALE: 1" = 1'-0"

**Robertson
 Wade Inc.**
 ENGINEERING
 340 MAIN ST. GREENWOOD, S.C. 29646 (864) 223-0681
 FAX: (864) 227-1538

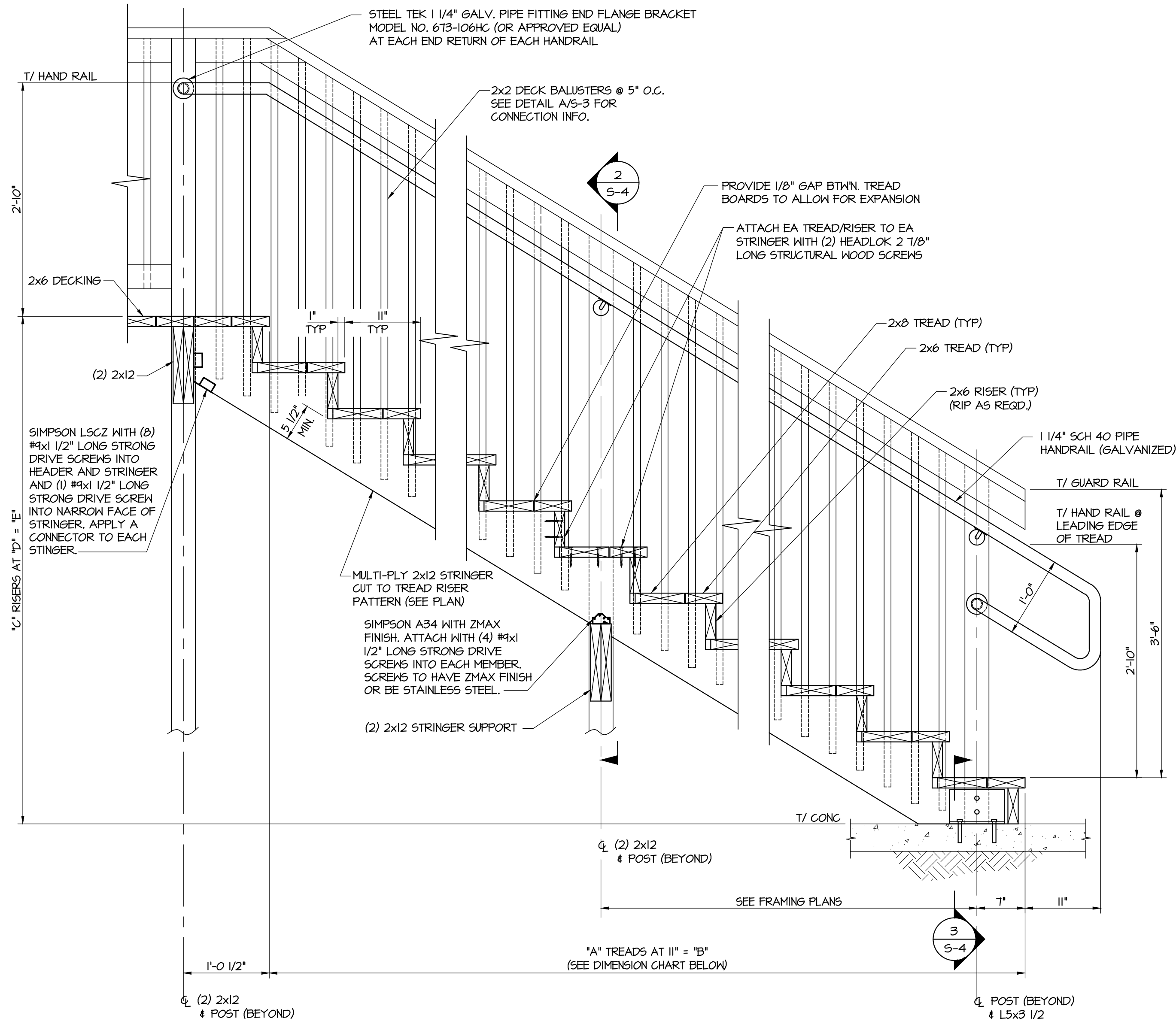


DATE	05/01/2019
ISSUE FOR	BIDS
PROJECT	REPLACEMENT OF STAIRS & DECKS
CLIENT	WILLIAMSTON APARTMENTS AT LANDER UNIVERSITY
TITLE	FRAMING PLAN, SECTIONS AND DETAILS

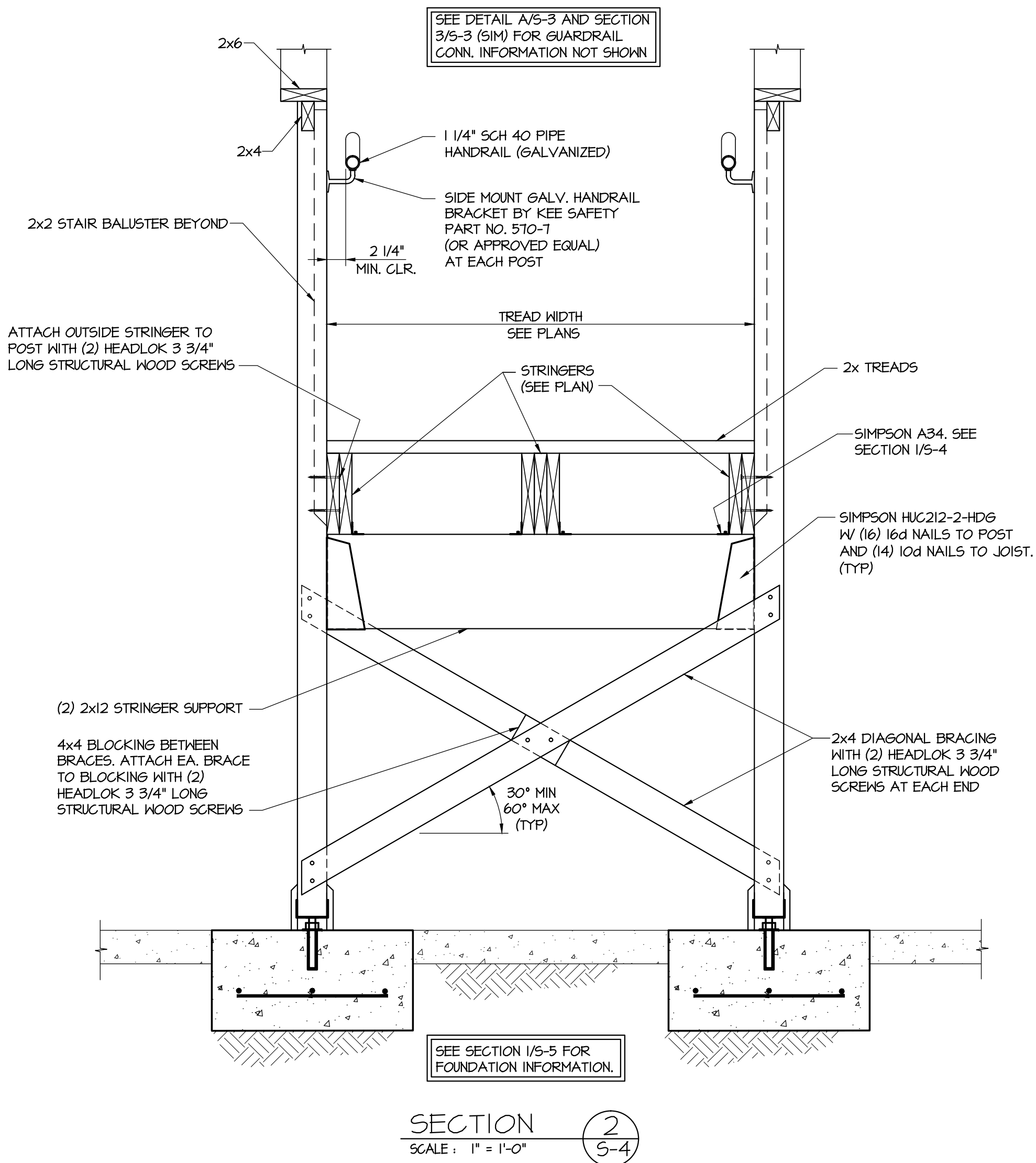
PROJECT: REPLACEMENT OF STAIRS & DECKS
 WILLIAMSTON APARTMENTS AT LANDER UNIVERSITY
 GREENWOOD, SC
 CLIENT: LANDER UNIVERSITY
 TITLE: FRAMING PLAN, SECTIONS AND DETAILS

DRAWN BY:	JCS
CHECKED BY:	BAR
DATE	04/01/2019
SCALE:	AS NOTED
R/W PROJECT NUMBER	19008B
SHEET NUMBER	5-3

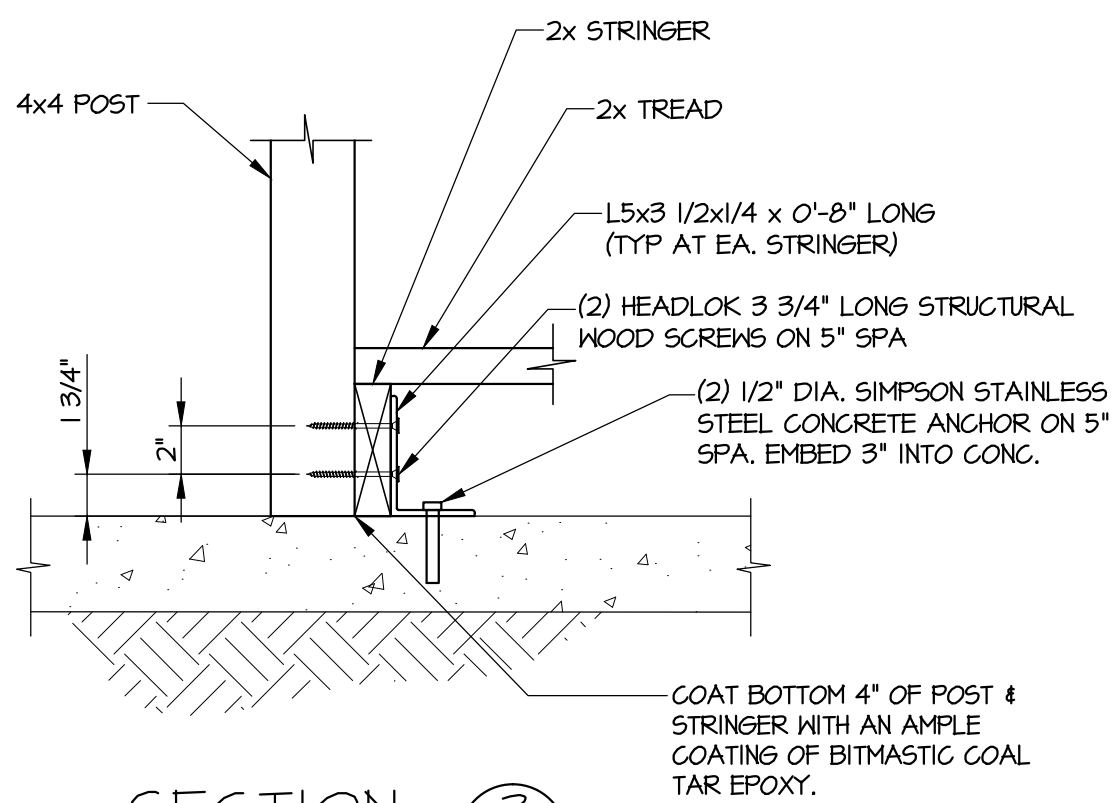
5-3



TYPICAL STAIR SECTION
SECTION 1
SCALE: 1" = 1'-0"



SECTION 2
SCALE: 1" = 1'-0"



SECTION 3
SCALE: 1 1/2" = 1'-0"

DIMENSION TABLE

REFERENCE STAIR # (SEE KEY PLAN ON DRAWING S-1)	COUNT "A"	DIMENSION "B"	COUNT "C"	DIMENSION "D"	DIMENSION "E"
1	15	13'-4"	16	7 1/16"	9'-5"
1-2	15	13'-4"	16	6 15/16" (+)	9'-3 3/8"
2-3	15	13'-4"	16	6 15/16" (-)	9'-2 13/16"
3	15	13'-4"	16	7" (+)	9'-4 1/2"
4	15	13'-4"	16	6 7/8" (-)	9'-1 1/2"
4-5	15	13'-4"	16	6 7/8" (+)	9'-1 13/16"
5-6	15	13'-4"	16	6 7/8" (+)	9'-2 1/16"
6	15	13'-4"	16	7"	9'-4"
7	17	15'-7"	18	6 3/4" (-)	10'-1"
7-8	15	13'-4"	16	7 1/16" (-)	9'-4 11/16"
8	17	15'-7"	18	6 13/16" (+)	10'-3 1/4"

NOTES:

1. FOR DESIGN CRITERIA AND GENERAL NOTES, REFERENCE DRAWING S-1.

**Robertson
Wade Inc.**
ENGINEERING
340 MAIN ST. GREENWOOD, S.C. 29646 (864) 223-0681
FAX: (864) 227-1538

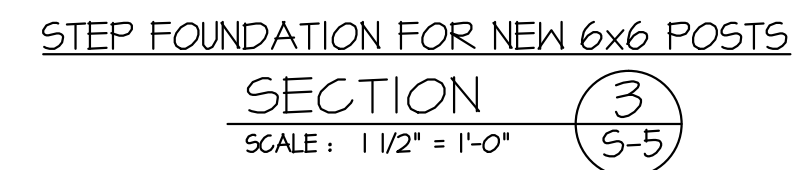
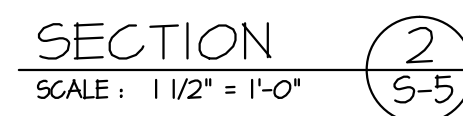
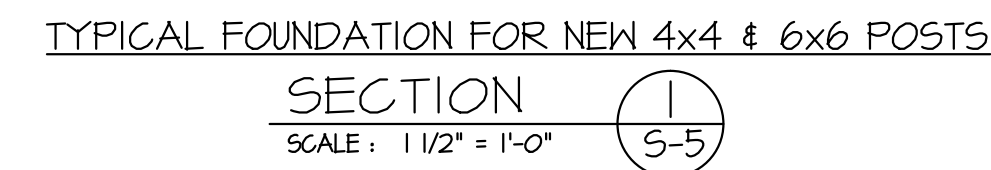


DATE	05/01/2019
ISSUE FOR	BIDS
PROJECT	REPLACEMENT OF STAIRS & DECKS WILLIAMSTON APARTMENTS AT LANDER UNIVERSITY GREENWOOD, SC
CLIENT	LANDER UNIVERSITY
TITLE	STAIR SECTIONS

PROJECT: REPLACEMENT OF STAIRS & DECKS
WILLIAMSTON APARTMENTS AT LANDER UNIVERSITY
GREENWOOD, SC
CLIENT: LANDER UNIVERSITY
TITLE: STAIR SECTIONS

DRAWN BY:	JCS
CHECKED BY:	BAR
DATE:	04/01/2019
SCALE:	AS NOTED
R/W PROJECT NUMBER:	19008B
SHEET NUMBER:	

S-4



**Robertson
Wade Inc.**
ENGINEERING

340 MAIN ST. GREENWOOD, S.C. 29646 (864) 223-0591
FAX: (864) 227-1538



	BIDS	05/01/2019

REPLACEMENT OF STAIRS & DECKS WILLIAMSTON APARTMENTS AT LANDER UNIVERSITY GREENWOOD, SC	CLIENT: LANDER UNIVERSITY
	TITLE: FOUNDATION SECTIONS

AWN BY:	JCS
CHECKED BY:	BAR
DATE:	04/01/2019
SCALE:	AS NOTED
PROJECT NUMBER:	19008B
SHEET NUMBER:	

3-5