STRUCTUAL CODE/CRITERIA

ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE.

DESIGN LOAD CRITERIA

LIVE LOAD 20 PSF DEAD LOAD AS REQUIRED

WIND LOADS:

140 MPH BASIC WIND SPEED, V IMPORTANCE FACTOR, I EXPOSURE

SEISMIC LOADS

RISK CATEGORY SEISMIC DESIGN CATEGORY 0.564

SITE CLASS

CONTRACTOR TO NOTIFY ENGINEER OF ANY UNUSUAL AND/OR EXCESSIVE LOADS DUE TO EQUIPMENT OR CONSTRUCTION REQUIREMENTS.

1.501 g

THE ENGINEER SHALL HAVE NO CONTROL OVER, NOR RESPONSIBILITY FOR, THE CONTRACTOR'S MEANS, METHODS SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK, SITE, SAFETY, OR SAFTEY PROGRAMS WHILE PERFORMING THE WORK. THESE ARE SOLELY THE RESPONSIBILITIES OF THE CONTRACTOR, WHO IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY ANY REGULATORY AGENCIES.

ARCHITECTURAL DRAWINGS ARE THE PRIMARY BASIS FOR THE DIMENSIONS ON THIS PROJECT. THE ARCHITECTURAL DRAWINGS SHALL BE CONSIDERED AS THE LEAD DRAWINGS FOR THE PROJECT AND FOR DIMENSIONING.

FOUNDATION NOTES

CLEAR SITE AND REMOVE STUMPS, LOGS AND ROOTS TO A MINIMUM DEPTH OF 18" BELOW ALL FOOTINGS.

FOOTING ELEVATION SHOWN REPRESENTS THE MINIMUM DEPTH TO WHICH FOOTINGS SHALL BE CARRIED. FOOTING SHALL BE LOWERED AS REQUIRED TO OBTAIN SUITABLE BEARING . ALL UNSUITABLE BEARING MATERIAL SHALL BE REMOVED WITH FOOTINGS RESTING ON UNDISTURBED SOIL.

PROVIDE SUITABLE FILL MATERIAL SUCH AS THOSE CLASSIFED BY ASTM D2487 AS GROUPS GW, GP, GM, SW, SP, SM; FREE OF ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, VEGETATION OR OTHER DELETERIOUS MATTER.

A GEOTECHNICAL EVALUATION WAS NOT COMPLETED. AN ALLOWABLE BEARING PRESSURE OF 2000 PSF WAS USED BASED ON THE PRESCRIPTIVE REQUIRMENTS OF IBC CHAPTER 18.

CONCRETE NOTES

CONCRETE SHALL BE MADE OF PORTLAND CEMENT (ASTM C 150, TYPE I) AND NORMAL WEIGHT AGGREGATES (ASTM C33).

THE 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3000 PSI MINIMUM.

CONCRETE REINFORCING SHALL BE GRADE 60

(MINIMUM) ASTM A615.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185

ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-96.

ALL CONCRETE REINFORCING SHALL BE LAP SPLICED MINIMUM LENGTH PER ACI.

ALL WELDED WIRE FABRIC SHALL BE LAPPED

TWO (2) FULL MESH PANELS.

ALL METAL ACCESSORIES SHALL BE GALVANIZED.

SLAB-ON-GRADE

SLAB-ON-GRADE SHALL BE REINFORCED WITH W 6X6-WI.4 x WI.4 WWF ON 4" OF COARSE SAND.

WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF 1'-0".

PROVIDE CONTROL JOINTS SUCH THAT GROUND SLAB AREAS ARE LIMITED TO 450 SQUARE FEET AND THE LENGTH TO WIDTH RATIO DOES NOT EXCEED 1:5.

MASONRY NOTES

CONCRETE MASONRY TO HAVE A MINIMUM F'M OF 1500 PSI. AT 28 DAYS.

CMU SHALL CONFORM TO ASTM C90 TYPE I NORMAL WEIGHT

MORTAR WILL TYPE TYPE S. EITHER PORTLAND CEMENT (ASTM CI50) OR MASONRY CEMENT (ASTM C91) WILL BE USED IN ACCORDANCE WITH THE PROPORTION SPECIFICATION OF ASTM C270.

STRUCTURAL STEEL NOTES

ALL WELDS TO BE E70XX

ALL BEAMS AND COLUMNS SHALL BE ASTM A992, FY = 50 KSI OR GREATOR

ALL PLATE MATERIAL SHALL BE

ALL TUBE STEEL SECTIONS TO BE ASTM A500 GRADE B, FY=46 KSI

ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. ALL BOLTS SHALL BE ¾"Φ

ALL DETAILING, FABRICATION, ERECTION SHALL CONFORM TO AISC SPECIFICATIONS AND CODES

ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION", LATEST EDITION

ALL BEAMS SHALL BE FABRICATED WITH NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.

THERE SHALL BE NO FIELD CUTTING OF THE STRUCTURAL STEEL MEMBERS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

MINIMUN NUMBER OF BOLTS PER CONNECTION SHALL BE TWO (2)

WOOD FRAMING NOTES

• JOISTS / GIRDERS

JOISTS / GIRDERS ARE IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

JOISTS / GIRDERS SHALL BE SOUTHERN PINE NO. 2 OR BETTER.

SEE 3/S2.2 FOR MULTI-PLY GIRDER NAILING REQUIREMENTS.

• ROOF DIAPHRAGM

ROOF SHEATHING SHALL BE % IN. PLYWOOD OR OSB.

WOOD FASTENINGS

THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAT OF THOSE SPECIFIED IN IBC TABLE 2304.9.1.

ABBREVIATIONS:

SIM

UNO WWF

SQUARE

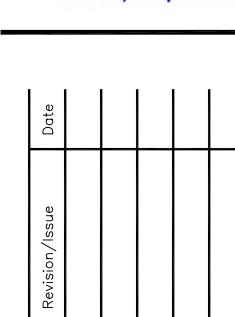
TYPICAL

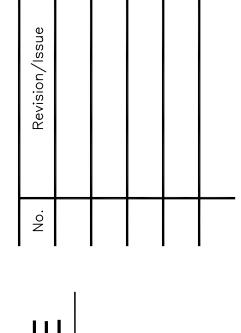
UNLESS NOTED OTHERWISE

WELDED WIRE FABRIC

THE FOLLOW ING ABBREVIATIONS ARE TYPICAL FOR THESE STRUCTURAL DRAWINGS. THE CONTRACTOR SHOULD CONTACT THE STRUCTURAL ENGINEER IF THERE ARE ANY QUESTIONS CONCERNING ANY ABBREVIATIONS.

AMERICAN CONCRETE INSTITUTE AMERICAN FOREST & PAPER AF¢PA ASSOCIATION ABOVE FINISHED FLOOR AMERICAN INSTITUTE OF STEEL AISC CONSTRUCTION AMERICAN NATIONAL STANDARDS INSTITUTE ARCH ARCHITECTURAL AMERICAN SOCIETY OF TESTING MATERIALS BLKG BLOCKING BPL BEARING PLATE **BSMT** BASEMENT CMU CONCRETE MASONRY UNITS COL COLUMN CONT CONTINUOUS DEAD LOAD EQ EQUAL FF FINISHED FLOOR FT FEET FTG FOOTING FIELD VERIFY INTERNATIONAL BUILDING CODE IBC IRC INTERNATIONAL RESIDENTIAL CODE INTERIOR TMIOL LIVE LOAD MASONRY MAS MAXIMUM MAX MISCELLANEOUS MISC NTS NOT TO SCALE ON CENTER OCPCF POUNDS PER CUBIC FOOT PLATE POUNDS PER SQURE FOOT PSF POUNDS PER SQURE INCH PSI DEFORMED REINFORCING BARS REBAR





 \Box

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Brislin

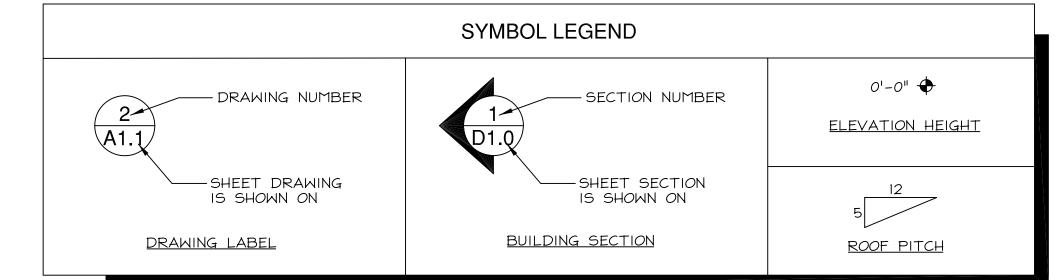
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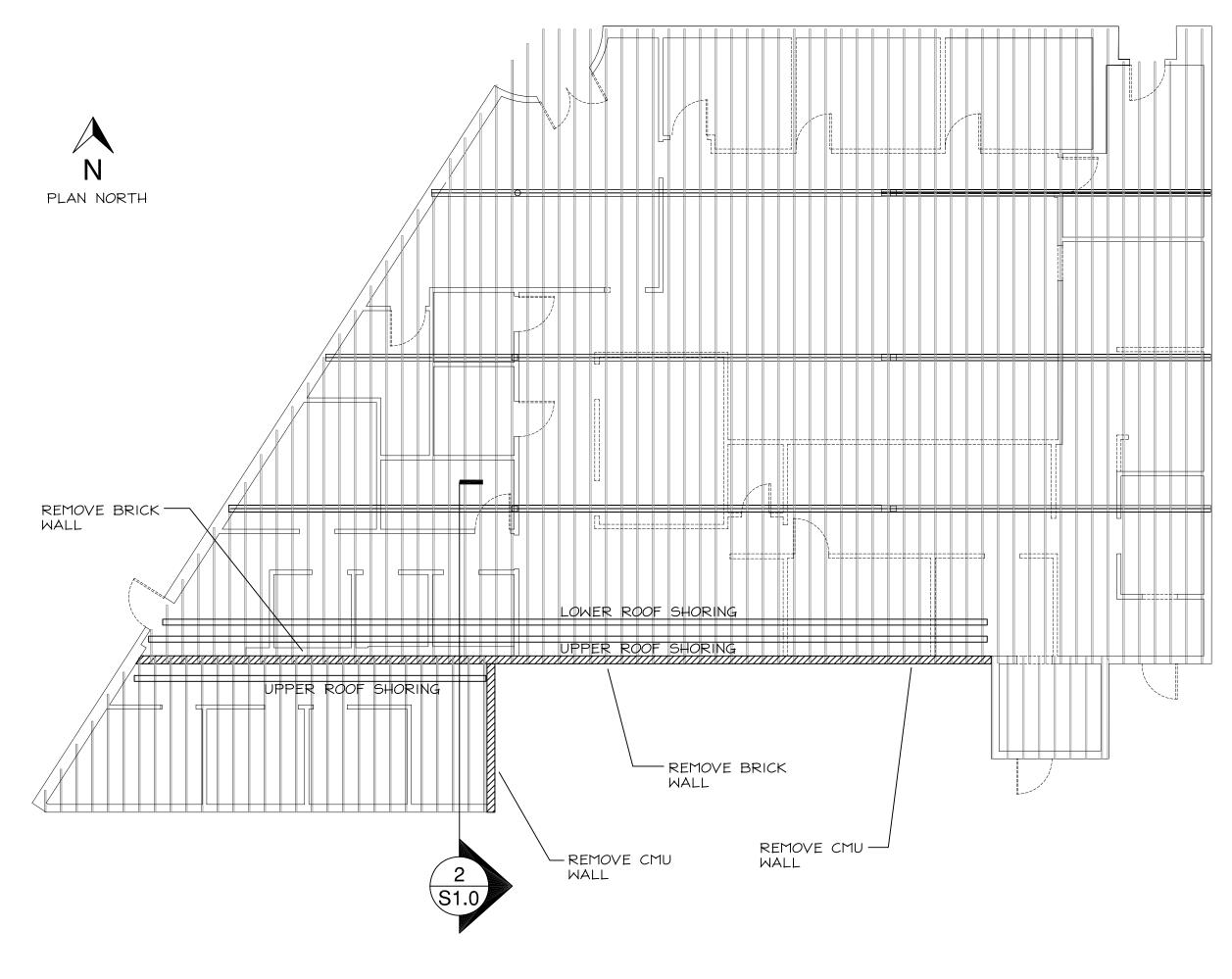
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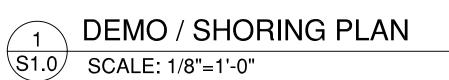
606 Old Trolley Road Suite 202 Summerville, SC 29485 843-821-1678 909

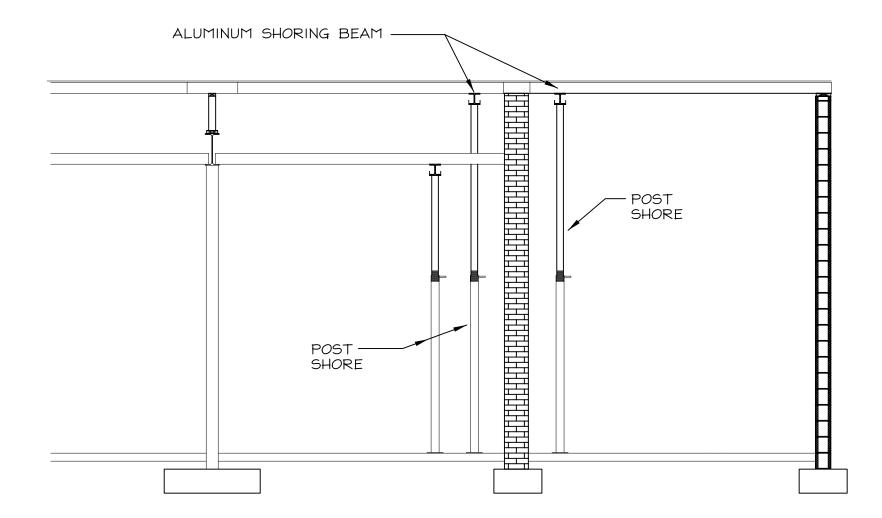
STRUCTURAL NOTES

15 FEB 2021 NONE











EXISTING STRUCTURE

COMMERCIAL STRUCTURE ORIGINALLY BUILT OF BRICK MASONRY WALLS AND WOOD ROOF SYSTEM. STRUCTURE HAS BEEN RENOVATED IN THE

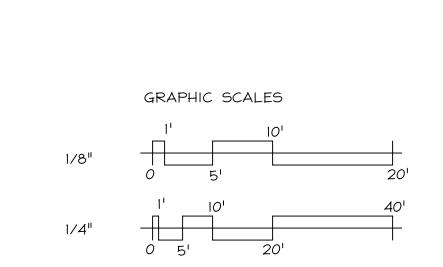
AT SOME POINT IN THE PAST, THE ORGINAL ROOF SYSTEM WAS MODIFIED / REPLACED. A NEW STEEL BEAM AND COLUMN SYSTEM WAS INSTALLED TO ELIMINATE ANY INTERIOR BRICK MASONRY BEARING WALLS. IT IS NOT CLEAR IF THE ORIGINAL ROOF JOISTS REMAINED OR WERE REPLACED. THIS ALLOWED PARITION WALLS TO CREATE INTERIOR SEPEARTE SPACES. A WOOD CEILING SYSTEM WAS ALSO INSTALLED CREATING TWO LEVELS OF WOOD JOISTS. ALSO ADDITIONAL SPACE WAS ADDED TO THE STRUCTURE BY THE CONSTRUCTION OF ADDITIONAL EXTERIOR CONCRETE MASONRY UNIT (CMU) WALLS.

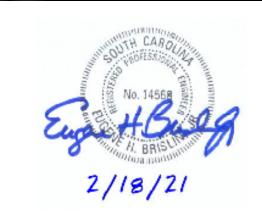
SHORING REQUIRED

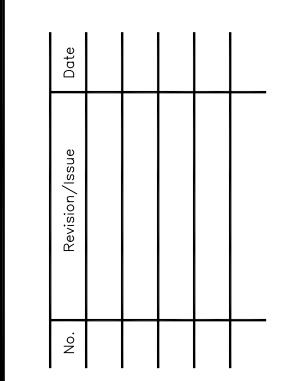
MEANS AND METHODS ARE THE RESPONSIBILTY OF THE CONTRACTOR. THE SHORING METHOD PROVIDED IS TO ENSURE THAT AT LEAST ON PLAUSIBLE METHOD EXISTS TO ALLOW THE REQUIRED WALL REMOVAL AND GIRDER INSTALLATION.

TO REMOVE THE SOUTH WALL NOTED, SHORING MUST BE USED TO SUPPORT THE EXISTING ROOF AND CEILING SYSTEM. ON THE NORTH SIDE OF THE WALL SHORING WILL BE REQUIRED FOR THE UPPER WOOD ROOF JOSITS AND LOWER WOOD CEILING JOISTS. ON THE SOUTH SIDE OF THE WALL THERE ARE NO LOWER CEILING JOSITS, SO SHORING IS ONLY REQUIRED FOR THE UPPER WOOD ROOF JOISTS.

TYPICAL SHORING CONSISTS OF POST-SHORES WITH A CAPCITY OF 3000 LBS PLACED AT 8'-0" O.C. MAX. THESE SHORES SHOULD SUPPORT A SHORING 4" ALUMINUM I-BEAM. THE BASE OF THE POST SHORES SHOULD BE SUPPORTED ON THE EXISTING SLAB ON



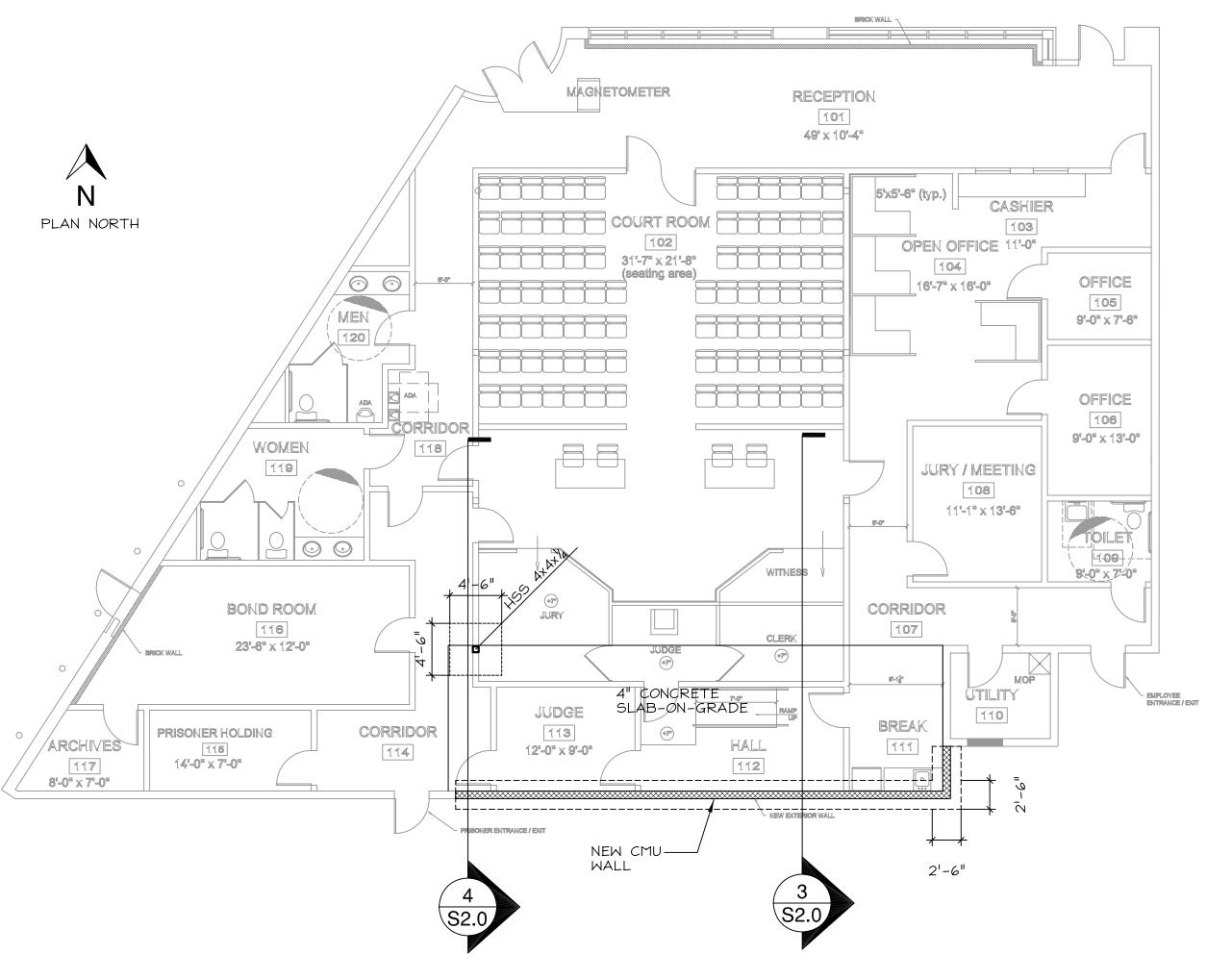




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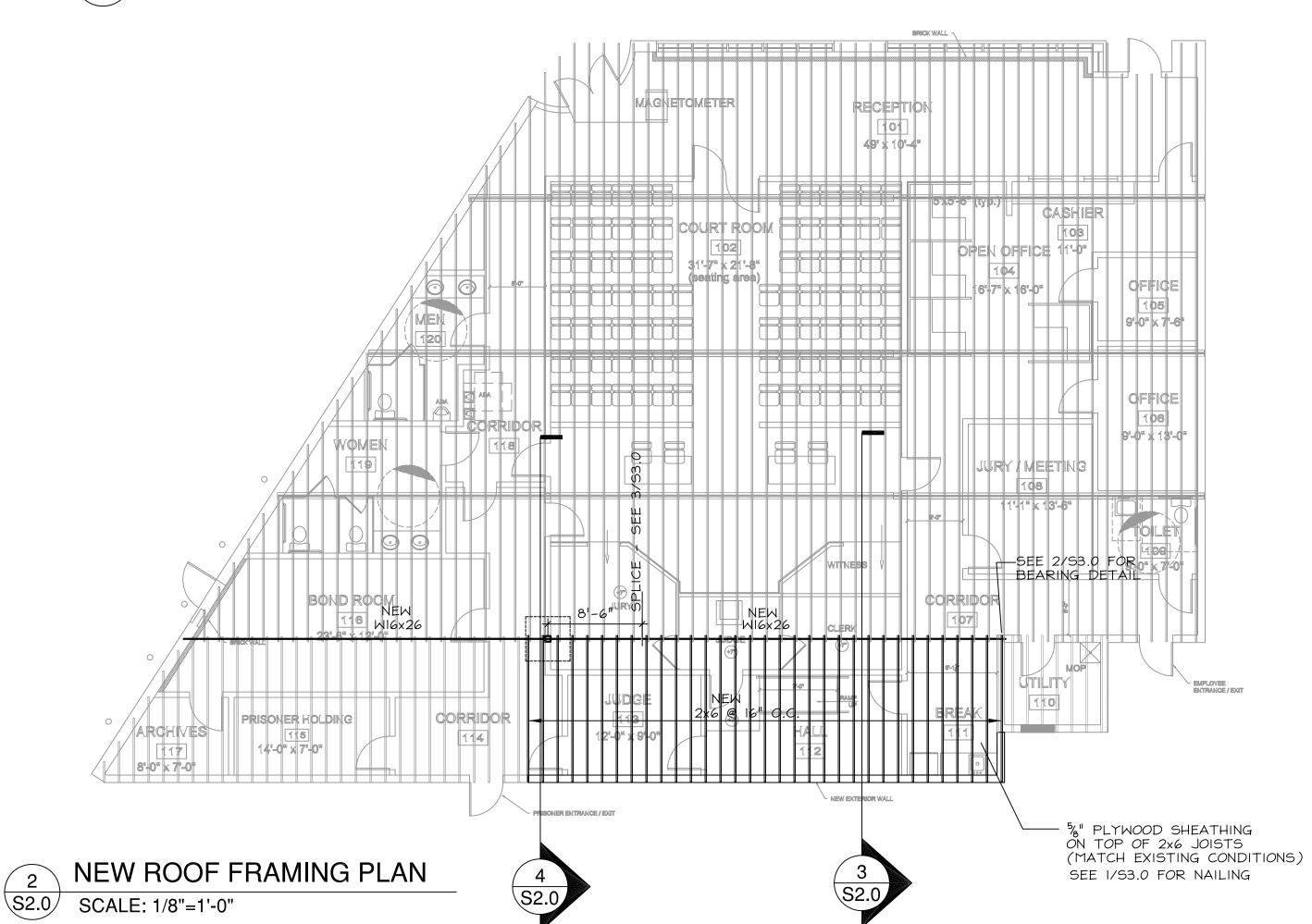
DEMO / SHORING **PLANS**

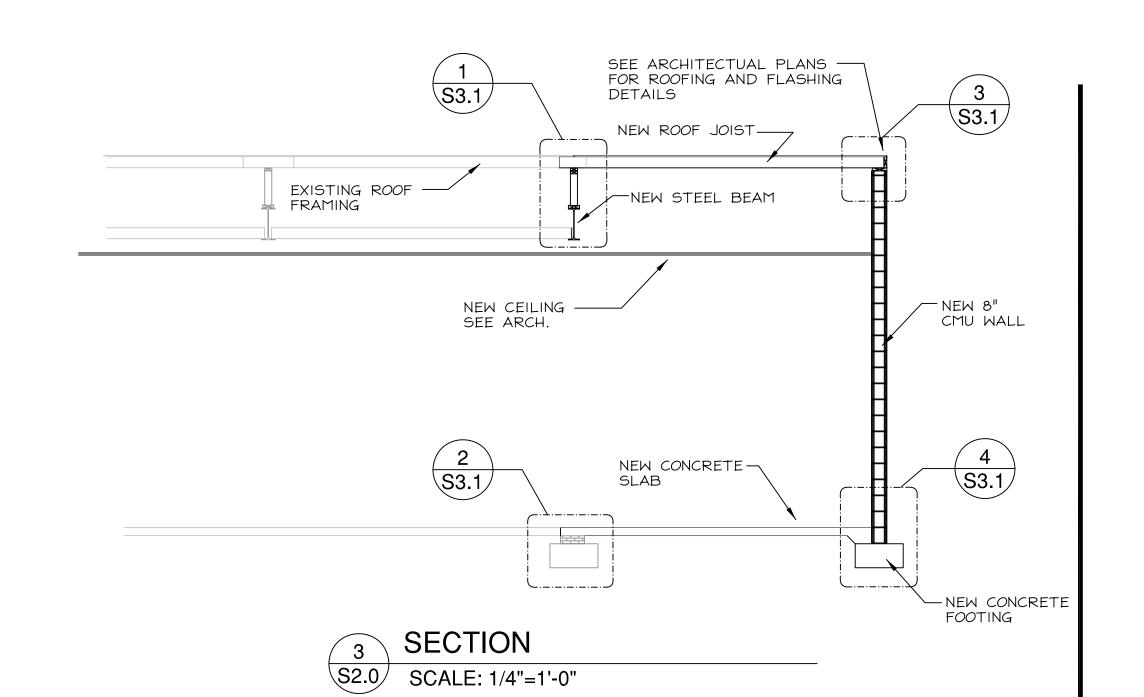
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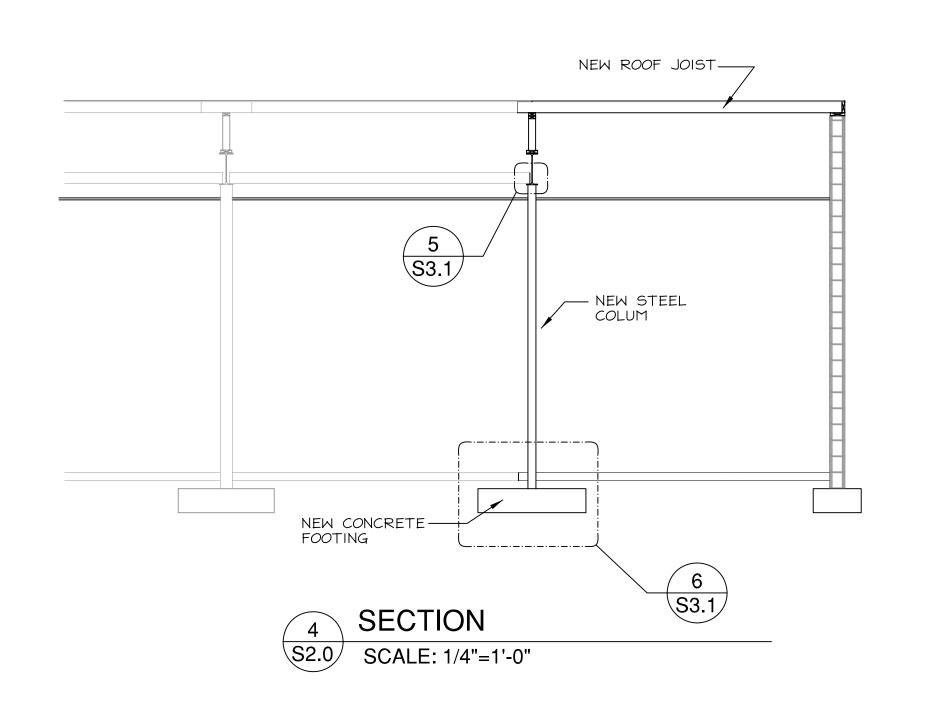


NEW FOOTING / FLOOR SLAB PLAN

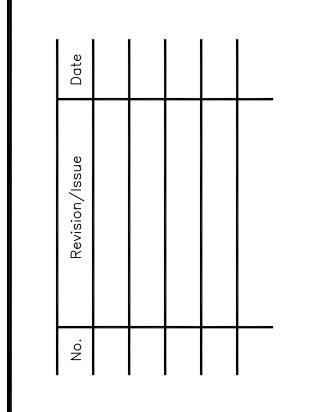
SCALE: 1/8"=1'-0"



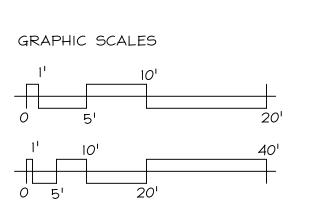






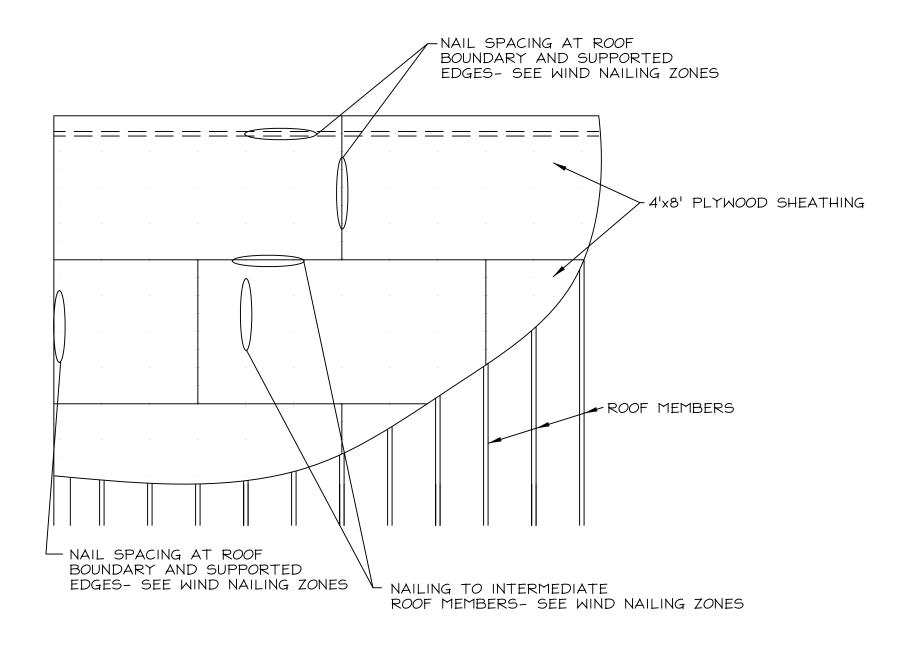


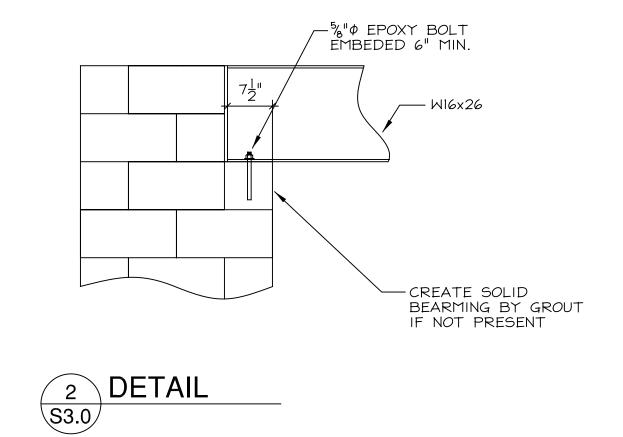
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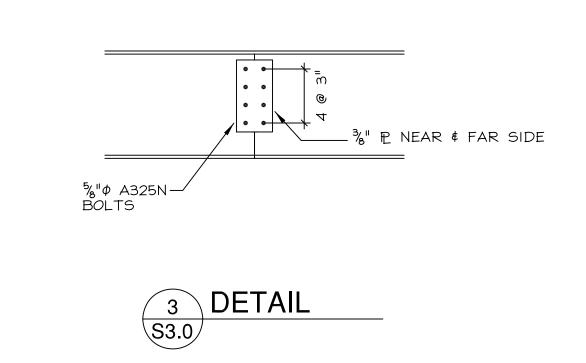


STRUCTURAL RENOVATIONS

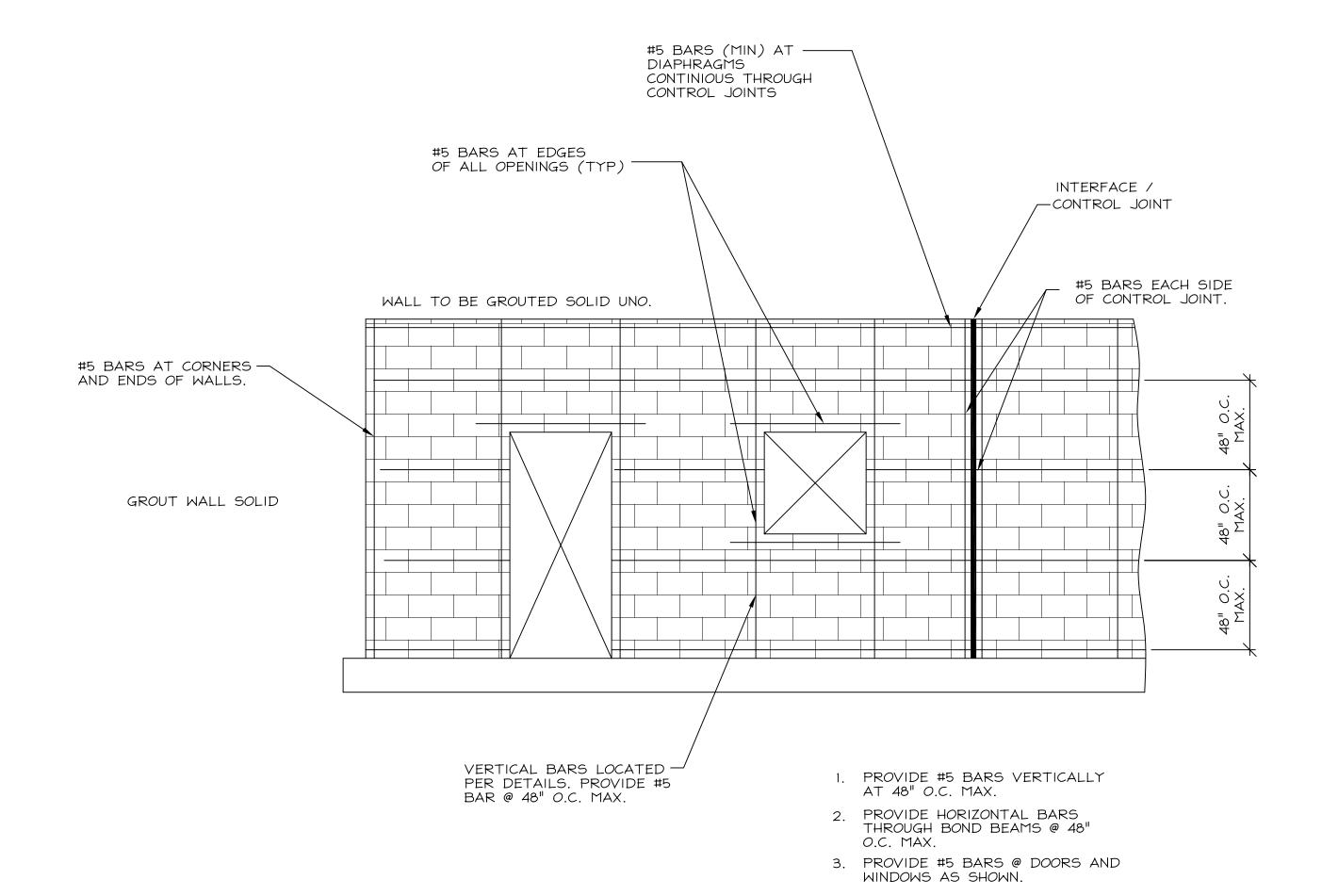
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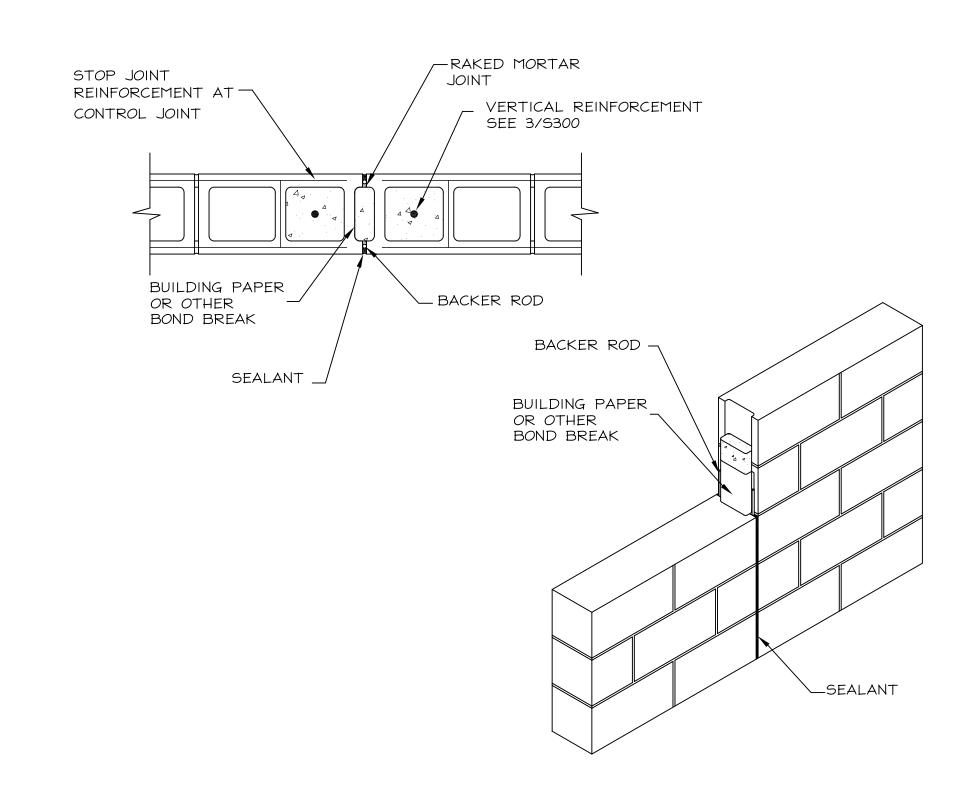




TYPICAL ROOF NAILING DIAGRAM S3.0

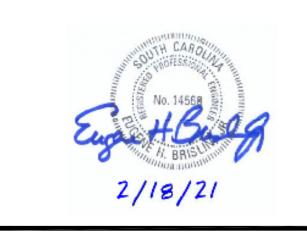


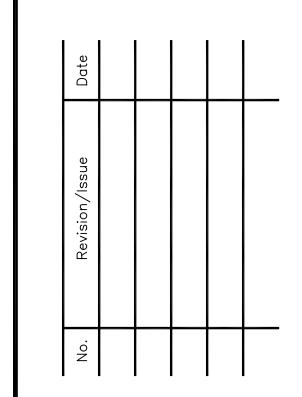




5 TYPICAL JOINTS

TOWN OF SUMMERVILLE COURT RENOVATION 118 WEST RICHARDSON AVE





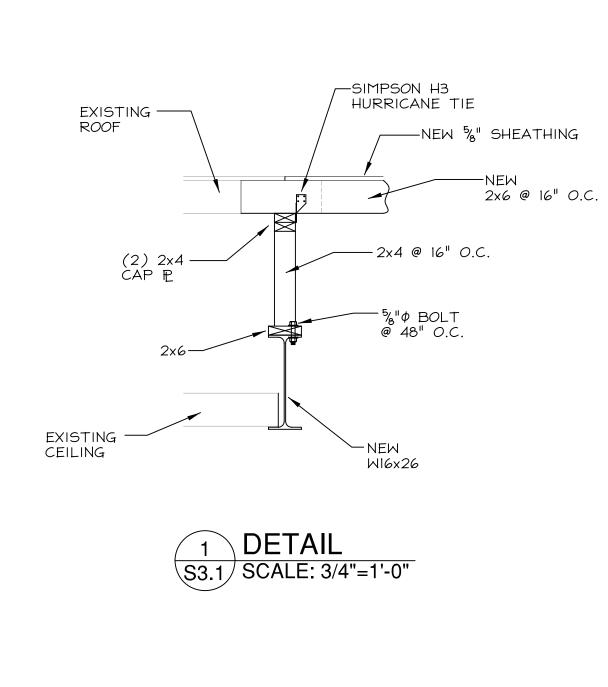
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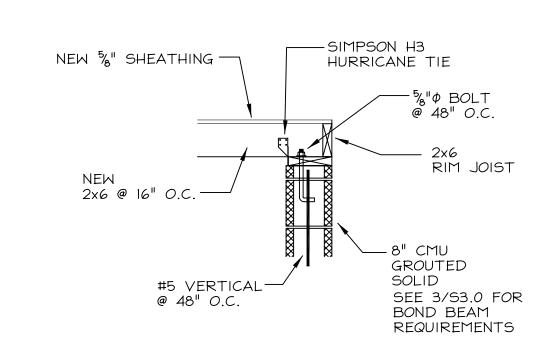
Sheet Title

DETAILS

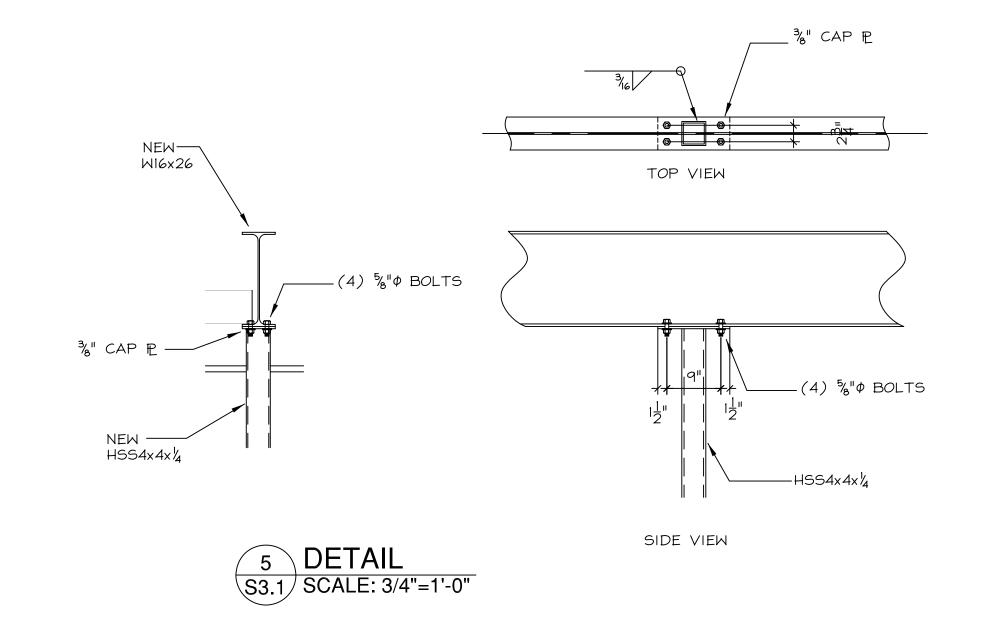
Date	
15 FEB	2021
Scale	
3/4"_1'_0"	

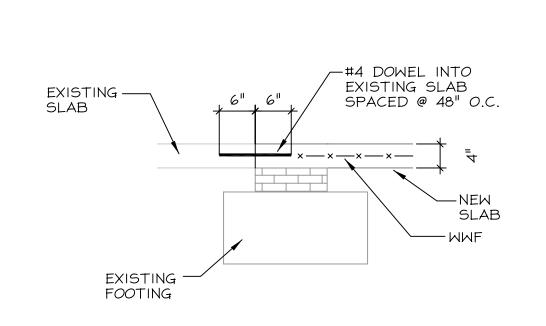
S3.0



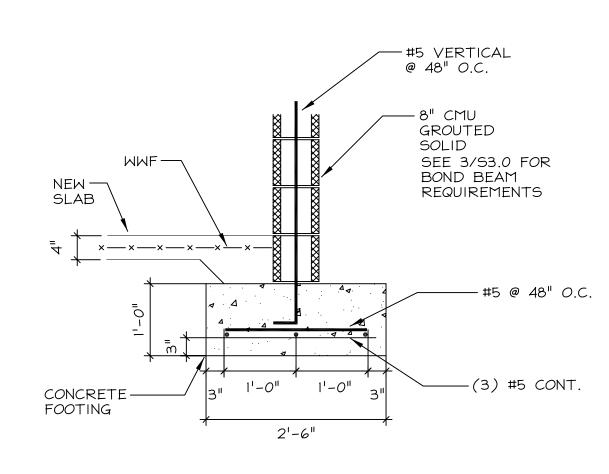




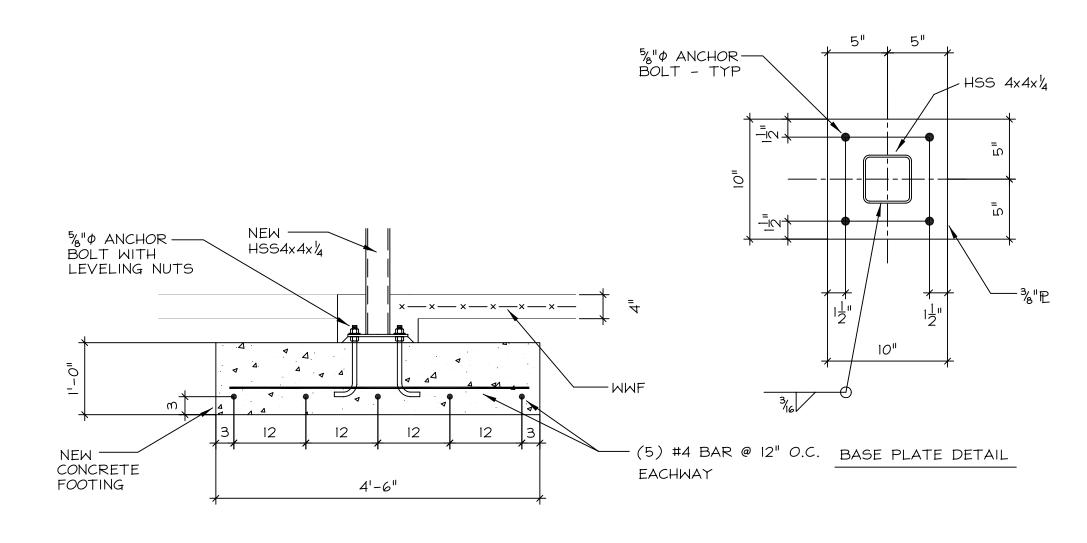






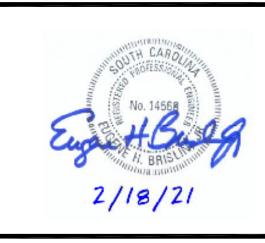


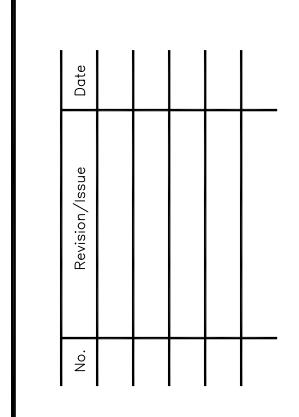
4 DETAIL S3.1 SCALE: 3/4"=1'-0"





TOWN OF SUMMERVILLI
COURT RENOVATION





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Sheet Title

DETAILS

15 FEB 2021
Scale
3/4"=1'-0"
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