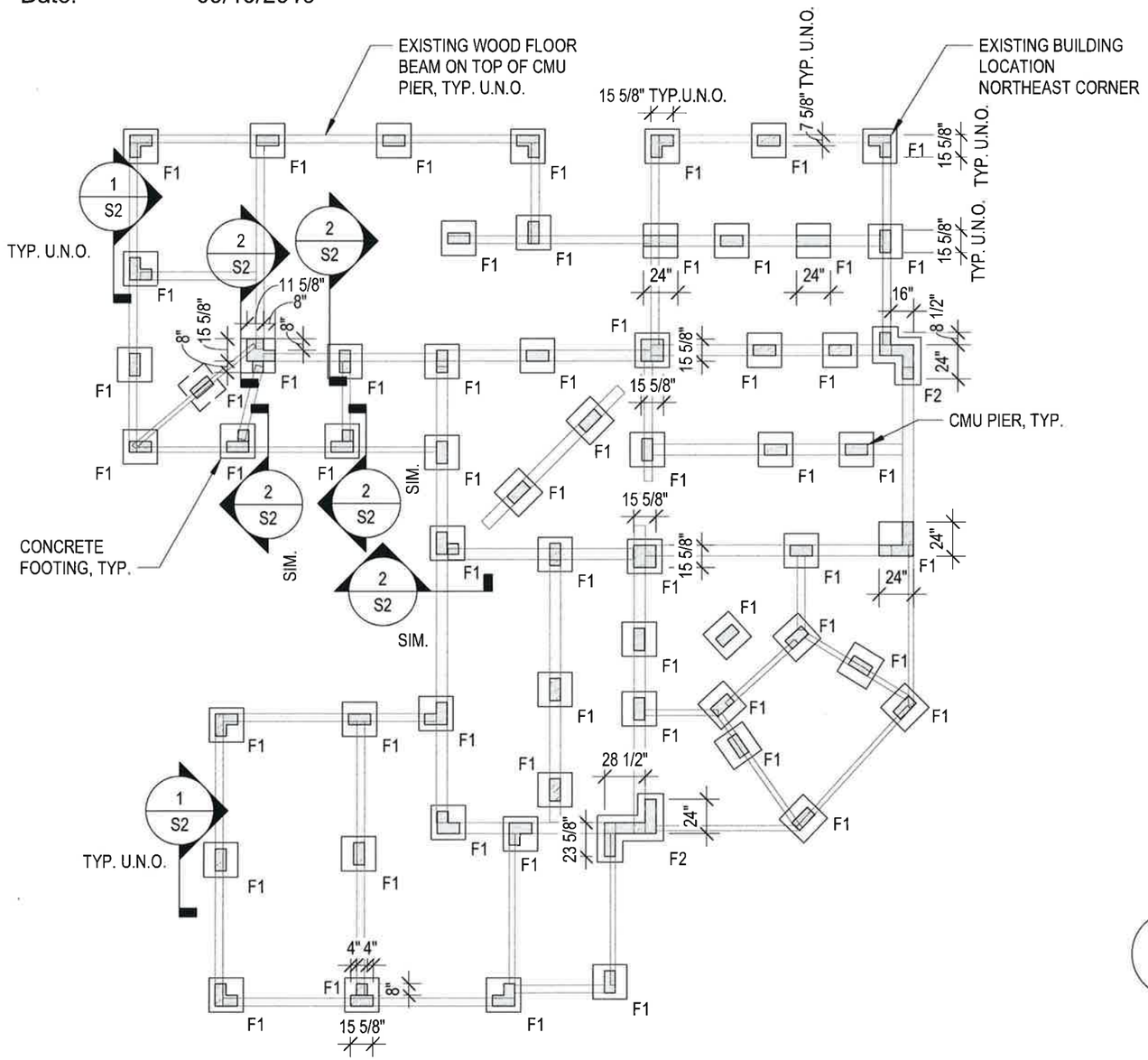
GRAEF
2300 Maitland Center Parkway
Suite 210
Maitland, FL 32751-7411
407/659 6500
407/659 0609 Fax
www.graef-usa.com
CERT # 4270

SKETCH NO. S1

PROJECT: FOUNDATION DESIGN FOR RELOCATED JOSIE ROGERS HOUSE
DESCRIPTION: PLAN AND DETAILS
JOB: 20194117
Date: 09/10/2019

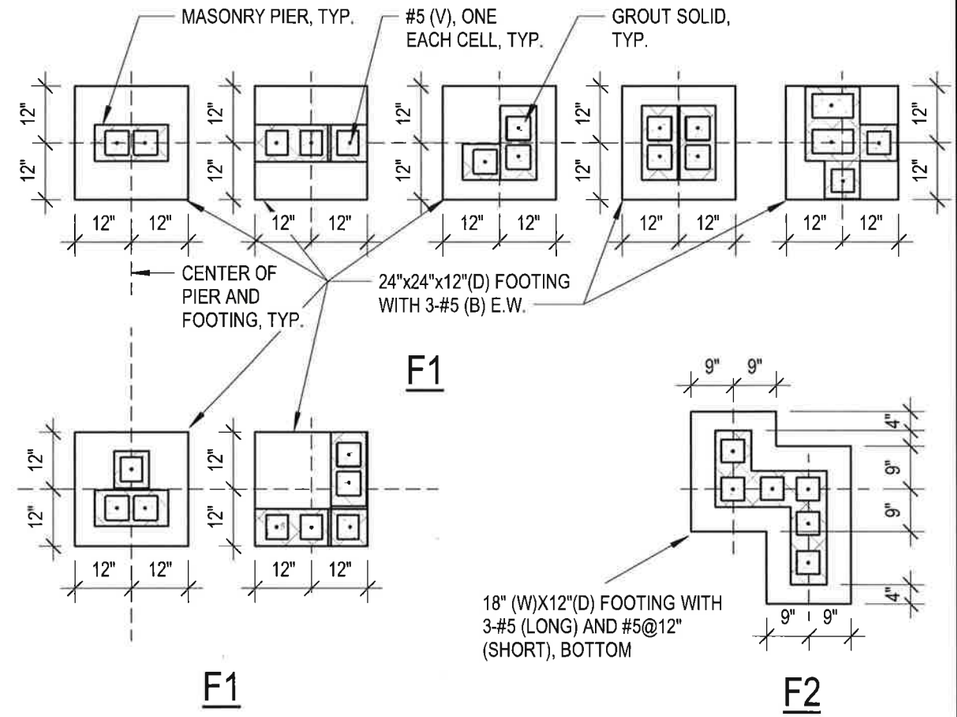


1 FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. PLACE NEW MASONRY PIERS AT THE SAME LOCATIONS RELATIVE TO THE EXISTING STRUCTURE AS THE EXISTING MASONRY PIERS. ALL PIER LOCATIONS SHOWN ON THIS PLAN SHALL BE FIELD VERIFIED ON SITE BY CONTRACTOR PRIOR TO NEW FOUNDATION AND PIER CONSTRUCTION.
2. SEE CIVIL DRAWINGS FOR NEW LOCATION AND ORIENTATION OF EXISTING BUILDING AFTER RELOCATION.
3. EXISTING WOOD FLOOR BEAMS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY AND SHALL NOT BE USED TO DETERMINE JACKING POSITIONS FOR RELOCATION.
4. STAIRS AND RAMPS NOT SHOWN FOR CLARITY.
5. F# INDICATES CONCRETE FOOTING MARK, SEE DETAIL 2/S1.



2 FOUNDATION AND PIER DETAIL

3/8" = 1'-0"

SCOTT D. HINRICHS LICENSE No. 67810 STATE OF FLORIDA PROFESSIONAL ENGINEER 9/11/19

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407/659 0609 Fax
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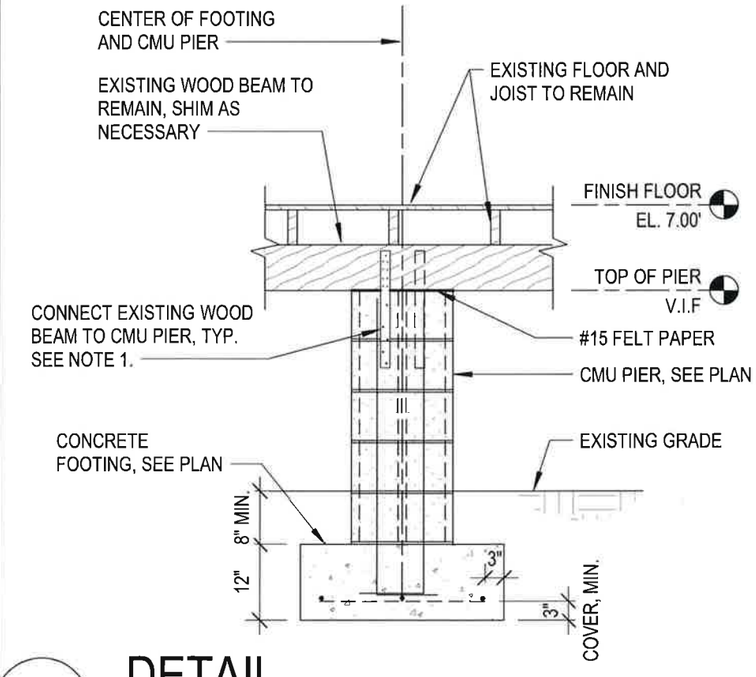
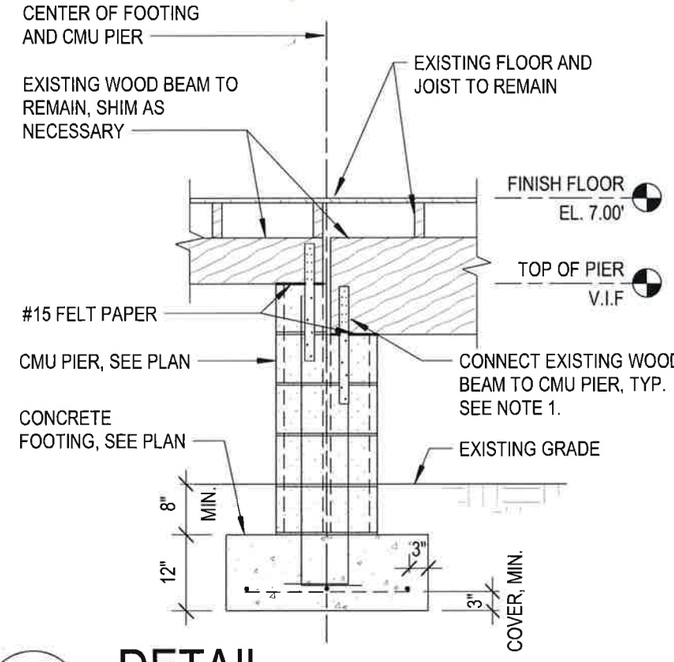
SKETCH NO. S2

PROJECT: FOUNDATION DESIGN FOR RELOCATED JOSIE ROGERS HOUSE
DESCRIPTION: GENERAL NOTES AND DETAILS
JOB: 20194117
Date: 09/10/2019



1 DETAIL

1/2" = 1'-0"



2 DETAIL

1/2" = 1'-0"

NOTE:

1. CONNECT EXISTING WOOD BEAM TO CMU PIER WITH MINIMUM TWO SIMPSON MSTAM24 STRAPS PER BEAM OR EQUAL. CONNECT EACH STRAP WITH (9)-10d NAILS TO EXISTING WOOD BEAM AND (5)-1/4"X2 1/4" TITEN 2 SCREWS TO CMU PIER OR EQUAL. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

DESIGN SPECIFICATIONS

- DESIGN IS IN ACCORDANCE WITH THE STATE OF FLORIDA 2017 BUILDING CODE.
- MINIMUM 28 DAY CONCRETE CYLINDER STRENGTH SHALL BE:
  FOUNDATIONS 3000 PSI
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 TYPE II NORMAL WEIGHT UNITS.
- MORTAR SHALL CONFORM TO ASTM C270 TYPE S.
- MASONRY GROUT SHALL CONFORM TO ASTM C476. MINIMUM COMPRESSIVE STRENGTH SHALL BE f'_c = 2000 PSI.
- MINIMUM COMPRESSIVE STRENGTH OF REINFORCED CONCRETE MASONRY CONSTRUCTION SHALL BE f'_m = 1500 PSI.
- DESIGN LOADS:
  - LIVE LOADS:
    - FLOOR: 40 PSF
    - ROOF 20 PSF
  - WIND LOAD (ASCE 7-10)

BUILDING RISK CATEGORY	II	
ULTIMATE DESIGN WIND SPEED (V_{ult})	V =	137 MPH
3-SECOND GUST/NOMINAL DESIGN WIND SPEED (V_{asd})	V=	106 MPH
EXPOSURE	D	
INTERNAL PRESSURE COEFFICIENT	GC_{pi} =	+/- 0.18

- STATED BEARING CAPACITY FOR SPREAD FOOTINGS IS 2000 PSF.
- CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND JOB SITE SAFETY.

GENERAL NOTES

EARTHWORK

- SITE PREPARATION AND COMPACTION SHALL FOLLOW RECOMMENDATIONS OF SECTION 4.3: SITE PREPARATION FOR SHALLOW FOUNDATIONS IN GEOTECHNICAL EVALUATION REPORT DATED AUGUST 21, 2019, PREPARED BY UNIVERSAL ENGINEERING SCIENCES.
- NO HOLES, TRENCHES OR DISTURBANCES OF THE SOIL SHALL BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, FOOTINGS MUST BE LOWERED.

CONCRETE MASONRY

- PRODUCTION AND CONSTRUCTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530-13, AND THE NCMA "TEK MANUAL FOR CONCRETE MASONRY DESIGN AND CONSTRUCTION", LATEST EDITION.
- CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
- LAP REINFORCING BARS 48 DIAMETERS.
- VERTICAL BARS SHOWN ON THE DESIGN DRAWINGS SHALL BE PLACED IN A CONTINUOUS UNOBSTRUCTED CELL OF NOT LESS THAN 3 INCHES BY 4 INCHES.

CONCRETE

- REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.
- LAP ALL WALL BARS 48 DIAMETERS WITH CLASS B SPLICES UNLESS OTHERWISE DETAILED.
- DO NOT PLACE OR CUT HOLES IN CONCRETE FOUNDATIONS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- EXTERIOR EXPOSED CONCRETE SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE 5 PERCENT (+/-1.5 PERCENT).
- CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES.