

GENERAL NOTES

- ALL DESIGN INCLUDED HEREIN (INCLUDING FOUNDATIONS AND EARTH ANCHORS) HAS BEEN PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "2012 SOUTH CAROLINA MINIMUM SPECIFICATION GUIDE FOR RELOCATABLE CLASSROOMS."
- IN CASE OF CONFLICT BETWEEN VARIOUS STRUCTURAL DRAWINGS, OR STRUCTURAL PLANS AND DETAILS, THE MORE STRINGENT SHALL GOVERN.
- IN CASE OF CONFLICT BETWEEN DRAWINGS, NOTES, AND SPECIFICATIONS THE MORE STRINGENT SHALL GOVERN.
- WORK NOT INDICATED ON THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- ALL NOTES, DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS INDICATED OR REFERENCED. ALL NOTES, DETAILS AND SECTIONS SHALL APPLY TO ANY SIMILAR SITUATION THROUGHOUT THE ENTIRE PROJECT UNLESS A SEPARATE NOTE, DETAIL OR SECTION IS PROVIDED.
- REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING AND IN PLACE WORK OR UTILITIES DURING CONSTRUCTION
- CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL.

FOUNDATIONS

- CENTER ALL FOUNDATIONS BENEATH THEIR RESPECTIVE WALL OR COLUMN UNLESS NOTED OTHERWISE.
- ALL FOUNDATION EXCAVATIONS SHALL BE DEWATERED PRIOR TO PLACING CONCRETE
- ALL FOOTINGS SHALL REST ON UNDISTURBED SOIL OR A MANUALLY OPERATED VIBRATORY SLED OR TAMPER SHALL BE USED TO DENSIFY ANY SOILS IN THE BOTTOM OF FOOTING TRENCHES LOOSENED DURING THE EXCAVATION OPERATION

MASONRY

- MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON NET SECTION.
- MASONRY MORTAR SHALL BE TYPE S

EARTH ANCHORS

- ALL EARTH ANCHORS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES
 LENGTH = 48"
 SHAFT DIAMETER = 5/8"
 HELIX DIAMETER = MIN. (1) @ 6" (SEE NOTE 5)
 STABILIZER PLATE SIZE = 11"x17"
- THE USE OF THE TERM EARTH ANCHOR SHALL BE EQUIVALENT TO HELICAL ANCHOR AND GROUND ANCHOR
- EARTH ANCHORS SHALL HAVE "U" SHAPED HEADS THAT ACCOMMODATE (2)-BOLTS FOR STRAP ATTACHMENT AND SHALL INCLUDE A MECHANISM TO MAINTAIN STRAP TENSION
- EARTH ANCHORS SHALL BE INSTALLED USING MACHING INSTALLATION. PRE-DRILLING OF HOLES OR SOIL EXCAVATION TO AID ANCHOR INSTALLATION SHALL NOT BE PERMITTED
- ANCHORS HAVE BEEN SELECTED BASED ON WORST-CASE SOIL CONDITIONS. IF DURING INSTALLATION ANCHORS CANNOT BE INSTALLED AS REQUIRED, EOR SHALL BE NOTIFIED AND ADDITIONAL SOIL EXPLORATION MAY BE NECESSARY. REFER TO ANCHOR MANUFACTURERS SOIL PROBE & TORQUE DATA FOR ALTERNATE RECOMMENDED HELIX CONFIGURATIONS FOR VARYING SOIL CONDITIONS

DRAWING LIST	
SHEET NUMBER	SHEET NAME
S001	GENERAL NOTES
S101	PLANS
S201	TYPICAL DETAILS
S202	SECTIONS & DETAILS
S203	SECTIONS & DETAILS

STRUCTURAL DESIGN CRITERIA

- FOUNDATION DESIGN VALUES:
 ALLOWABLE BEARING CAPACITY 2000 PSF MIN.
- GRAVITY LOAD DESIGN VALUES: IBC-2015 / ASCE 7-10

 FLOOR LIVE LOADS:
 CLASSROOMS 40-PSF

 ROOF LIVE LOADS:
 SLOPING ROOF 20-PSF

 GROUND SNOW LOADS:
 SNOW 5-PSF

 DEAD LOADS:
 ACTUAL MATERIAL WEIGHTS PER ASCE 7-10, SEE ARCHITECTURAL DRAWINGS FOR ROOF, WALL, AND FLOOR CONSTRUCTION
- OSF RELOCATABLE CLASSROOM CRITERIA
 -"2014 SOUTH CAROLINA MINIMUM SPECIFICATIONS GUIDE FOR RELOCATABLE CLASSROOMS"
 -"2014 SOUTH CAROLINA ANNUAL INSPECTION AND MAINTENANCE FOR RELOCATABLES"
- SEISMIC DESIGN VALUES: IBC-2015 / ASCE 7-10
 Ss = 1.333
 S1 = 0.431
 Sds = 0.889g
 Sd1 = 0.451g
 SITE CLASS: "D" (PER SOILS REPORT)
 BUILDING RISK CATEGORY: "II"
 IMPORTANCE FACTOR: Ie = 1.0
 SEISMIC DESIGN CATEGORY: "D"
 ANALYSIS PROCEDURE: MODAL RESPONSE SPECTRUM ANALYSIS
 SEISMIC FORCE RESISTING SYSTEM:
 -SPECIAL REINFORCED MASONRY SHEAR WALLS
 RESPONSE MODIFICATION FACTOR: R = 5
 DEFLECTION AMPLIFICATION FACTOR: Cd = 3.5
 SYSTEM OVERSTRENGTH FACTOR: OMEGA = 2.5

 ALLOWABLE INTERSTORY DRIFT: 0.02 Hsx
- WIND LOAD DESIGN VALUES: IBC-2015 / ASCE 7-10
 V = 145 mph (3-sec gust)
 BUILDING RISK CATEGORY: "II"
 IMPORTANCE FACTOR: I = 1.0
 EXPOSURE CATEGORY: "B"
 ENCLOSURE CLASSIFICATION: ENCLOSED

 WIND DIRECTIONALITY FACTOR: Kd = 0.85
 TOPOGRAPHIC FACTOR: Kzt = 1.0
 VELOCITY EXPOSURE COEFFICIENT: Kz = 1.0
 VELOCITY PRESSURE: q = 52.3 psf

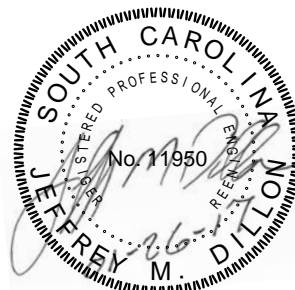
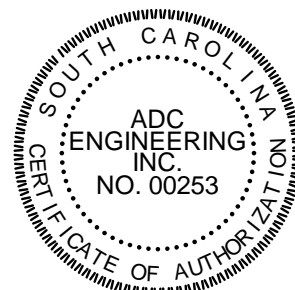
 INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

 ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

CHARLESTON COUNTY SCHOOL DISTRICT

BRENTWOOD M.S.
PORTABLES UNITS
UNIT# 0383

CHARLESTON COUNTY, SC



ENGINEERING SPECIALISTS

SITE SERVICES \ BUILDING ENVELOPE \ STRUCTURAL

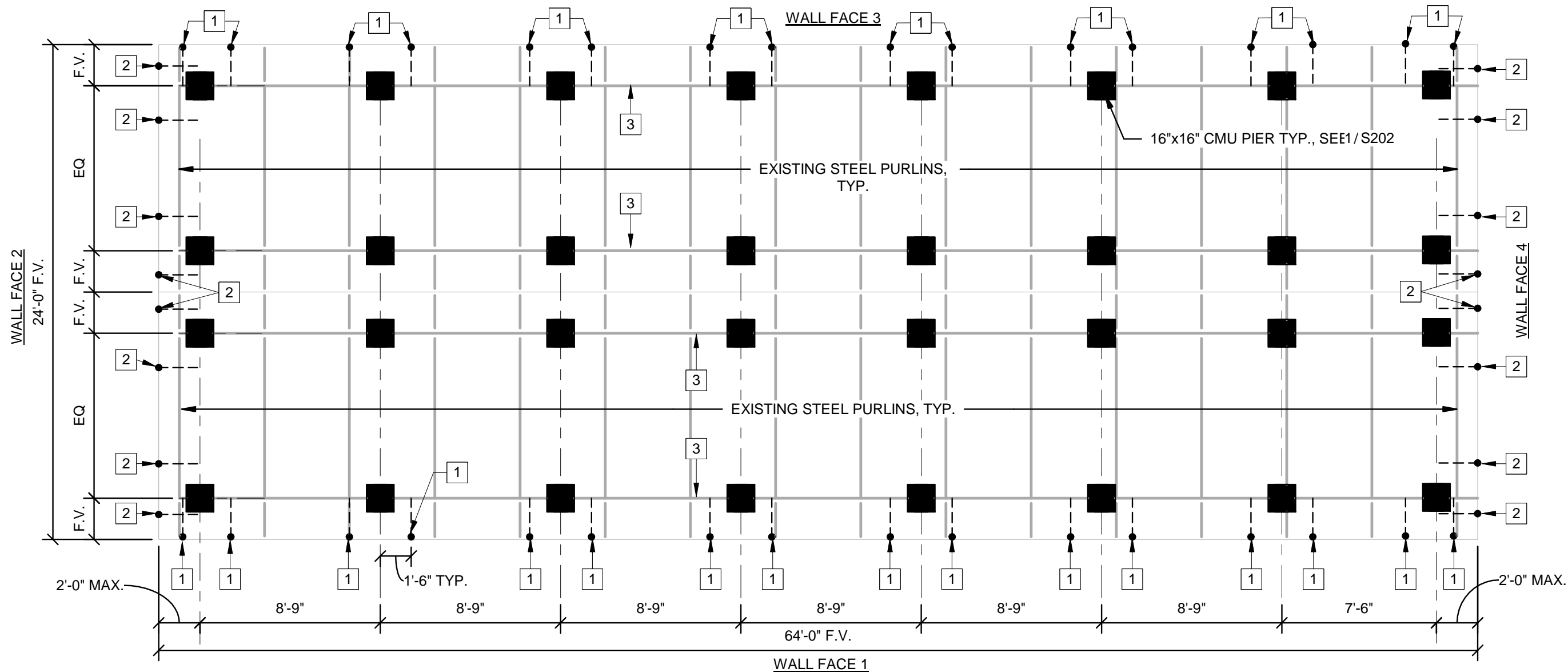
1226 YEAMANS HALL ROAD.
HANAHAN, SC 29410
843-566-0161
fax 843-566-0162
ADCENGINEERING.COM

DATE: 01.26.17
 ADC PROJECT #: 16376
 DESIGNED: JMD
 CHECKED: JMD
 DRAWN: WLB
 REVISION:

GENERAL NOTES

S001

SHEET ___ OF ___



FOUNDATION PLAN - RELOCATABLE UNIT# 0383

1
3/16" = 1'-0"

KEYED NOTES (THIS SHEET ONLY)

- 1 INDICATES LOCATION OF EARTH ANCHOR WITH DIAGONAL STRAP ANCHORAGE; SEE S202.
- 2 INDICATES LOCATION OF EARTH ANCHOR WITH DIAGONAL STRAP ANCHORAGE, SEE S203.
- 3 EXISTING STEEL BEAM.

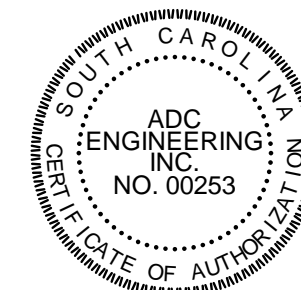
GENERAL NOTES

- SEE S200 FOR EARTH ANCHOR REQUIREMENTS & PROPERTIES AND SEE 1/S201 FOR INSTALLATION PROCEDURES
- PIER & ANCHOR LAYOUT IS BASED ON PHYSICAL OBSERVATIONS FOR THE SPECIFIC RELOCATABLE UNIT SHOWN HEREIN. NOTIFY EOR OF ANY DISCREPANCIES
- FV = FIELD VERIFY

CHARLESTON COUNTY SCHOOL DISTRICT

BRENTWOOD M.S.
PORTABLES UNITS
UNIT# 0383

CHARLESTON COUNTY, SC



ENGINEERING SPECIALISTS

SITE SERVICES \ BUILDING ENVELOPE \ STRUCTURAL

1226 YEAMANS HALL ROAD.
HANAHAN, SC 29410
843-566-0161
fax 843-566-0162
ADCENGINEERING.COM

DATE: 01.26.17

ADC PROJECT #: 16376

DESIGNED: JMD

CHECKED: JMD

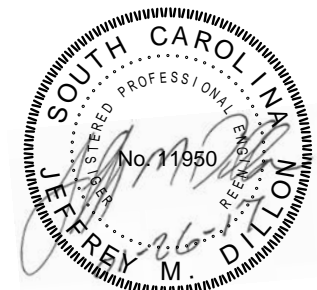
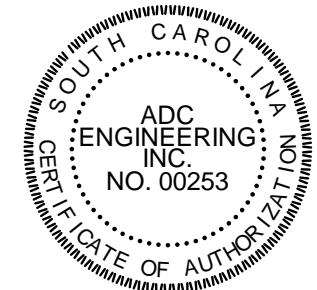
DRAWN: WLB

REVISION:

PLANS

S101

SHEET ___ OF ___



ENGINEERING SPECIALISTS

SITE SERVICES | BUILDING ENVELOPE | STRUCTURAL

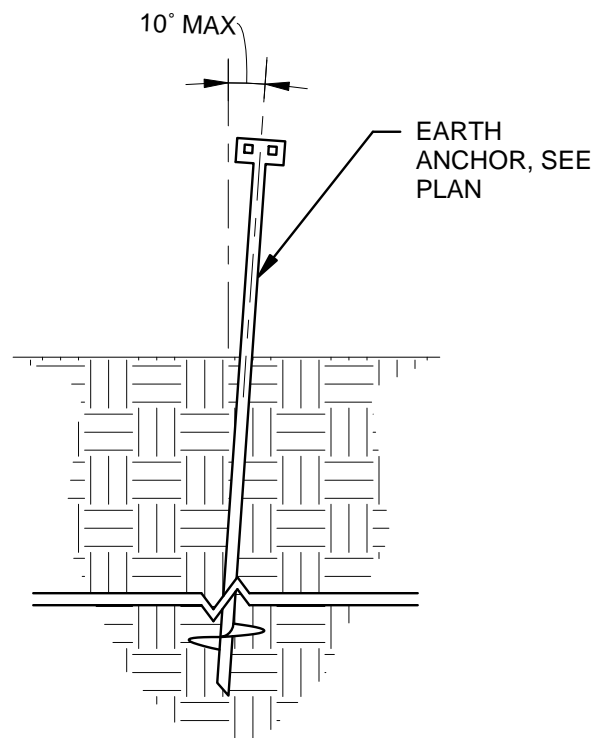
1226 YEAMANS HALL ROAD.
HANAHAN, SC 29410
843-566-0161
fax 843-566-0162
ADCENGINEERING.COM

DATE:	01.26.17
ADC PROJECT #:	16376
DESIGNED:	JMD
CHECKED:	JBJ
DRAWN:	WLB
REVISION:	

TYPICAL DETAILS

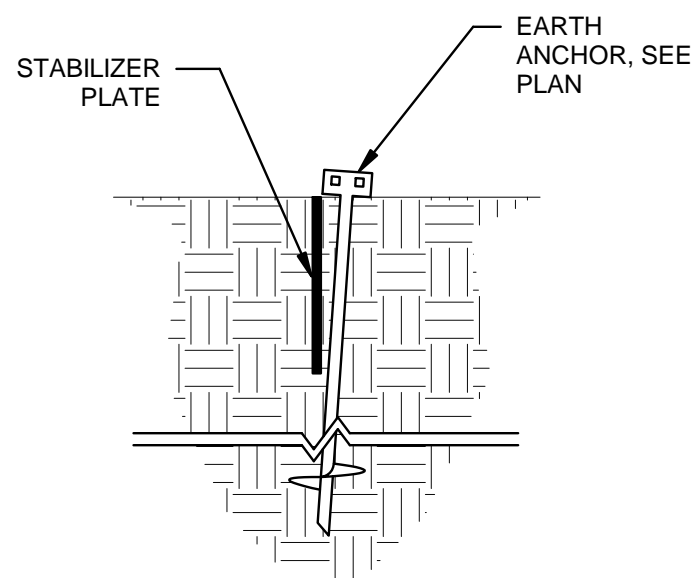
S201

SHEET ___ OF ___



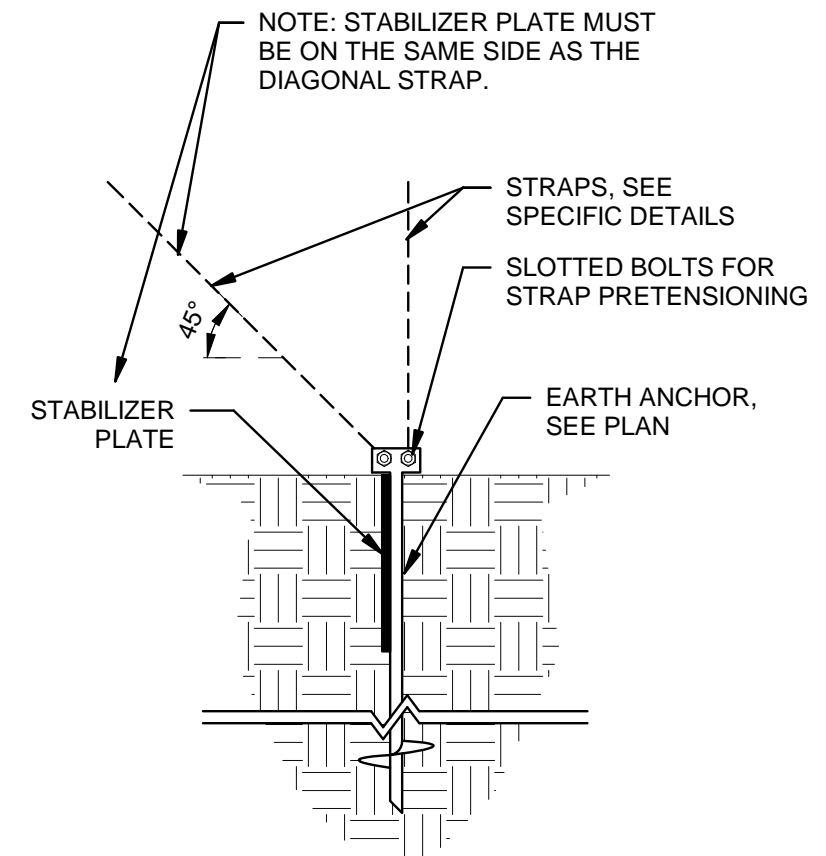
SEQUENCE 1:

1. LOCATE THE ANCHOR AS INDICATED ON PLAN & SPECIFIC DETAILS
2. USING A DRIVE MACHINE, BEGIN TO DRIVE THE ANCHOR INTO THE GROUND. NOTE THAT ANCHORS MAY BE ORIENTED UP TO 10° FROM VERTICAL TO AID INSTALLATION. DRIVE THE ANCHOR USING CONSTANT DOWNWARD PRESSURE TO MINIMIZE SOIL DISTURBANCE
3. PARTIALLY INSTALL THE ANCHOR TO ALLOW 14"-16" REMAINING ABOVE GROUND LEVEL



SEQUENCE 2:

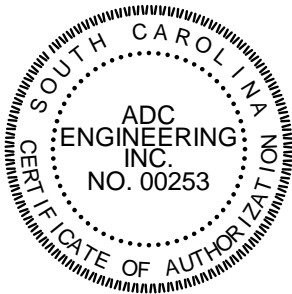
1. UTILIZING AND OVERSIZED HAMMER, DRIVE THE STABILIZER PLATE INTO THE GROUND ADJACENT TO THE ANCHOR SHAFT UNTIL THE TOP OF THE PLATE IS FLUSH WITH THE GROUND SURFACE (SEE SPECIFIC DETAILS FOR ORIENTATION OF STABILIZER PLATE)
2. COMPLETE THE INSTALLATION OF THE ANCHOR UNTIL THE BOTTOM OF THE ANCHOR HEAD IS FLUSH WITH THE GROUND SURFACE



SEQUENCE 3:

1. ATTACH DIAGONAL STRAP AND ASSOCIATED HARDWARE (SEE SPECIFIC DETAILS) INCLUDING MANUFACTURER'S LOCKING MECHANISM TO MAINTAIN STRAP TENSION
2. PRETENSION THE DIAGONAL STRAP UNTIL THE ANCHOR SHAFT IS FIRMLY IN CONTACT WITH THE STABILIZER PLATE
3. ATTACH VERTICAL STRAP AND ASSOCIATED HARDWARE (SEE SPECIFIC DETAILS) INCLUDING MANUFACTURER'S LOCKING MECHANISM TO MAINTAIN STRAP TENSION
4. PRETENSION THE VERTICAL STRAP UNTIL ALL

1 TYP. EARTH ANCHOR INSTALLATION
1" = 1'-0"



ENGINEERING SPECIALISTS

SITE SERVICES \ BUILDING ENVELOPE \ STRUCTURAL

1226 YEAMANS HALL ROAD.
HANAHAN, SC 29410
843-566-0161
fax 843-566-0162
ADCENGINEERING.COM

DATE: 01.26.17

ADC PROJECT #: 16376

DESIGNED: JMD

CHECKED: JMD

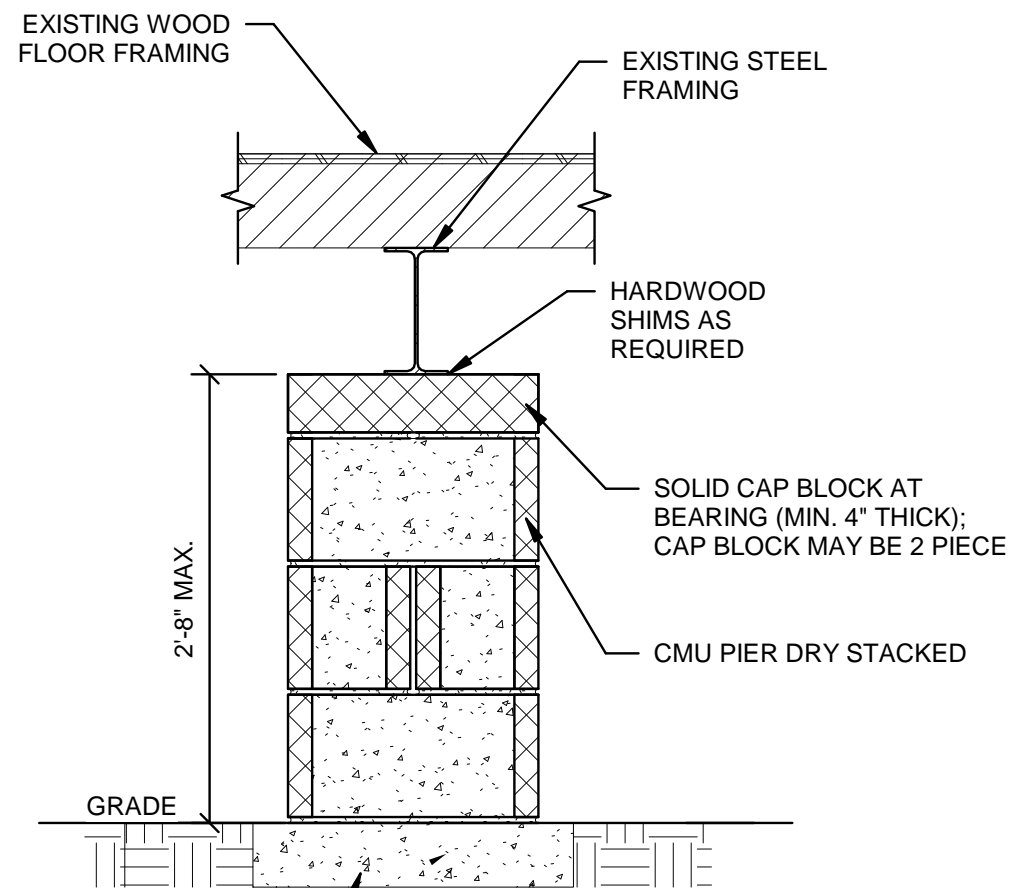
DRAWN: WLB

REVISION:

SECTIONS & DETAILS

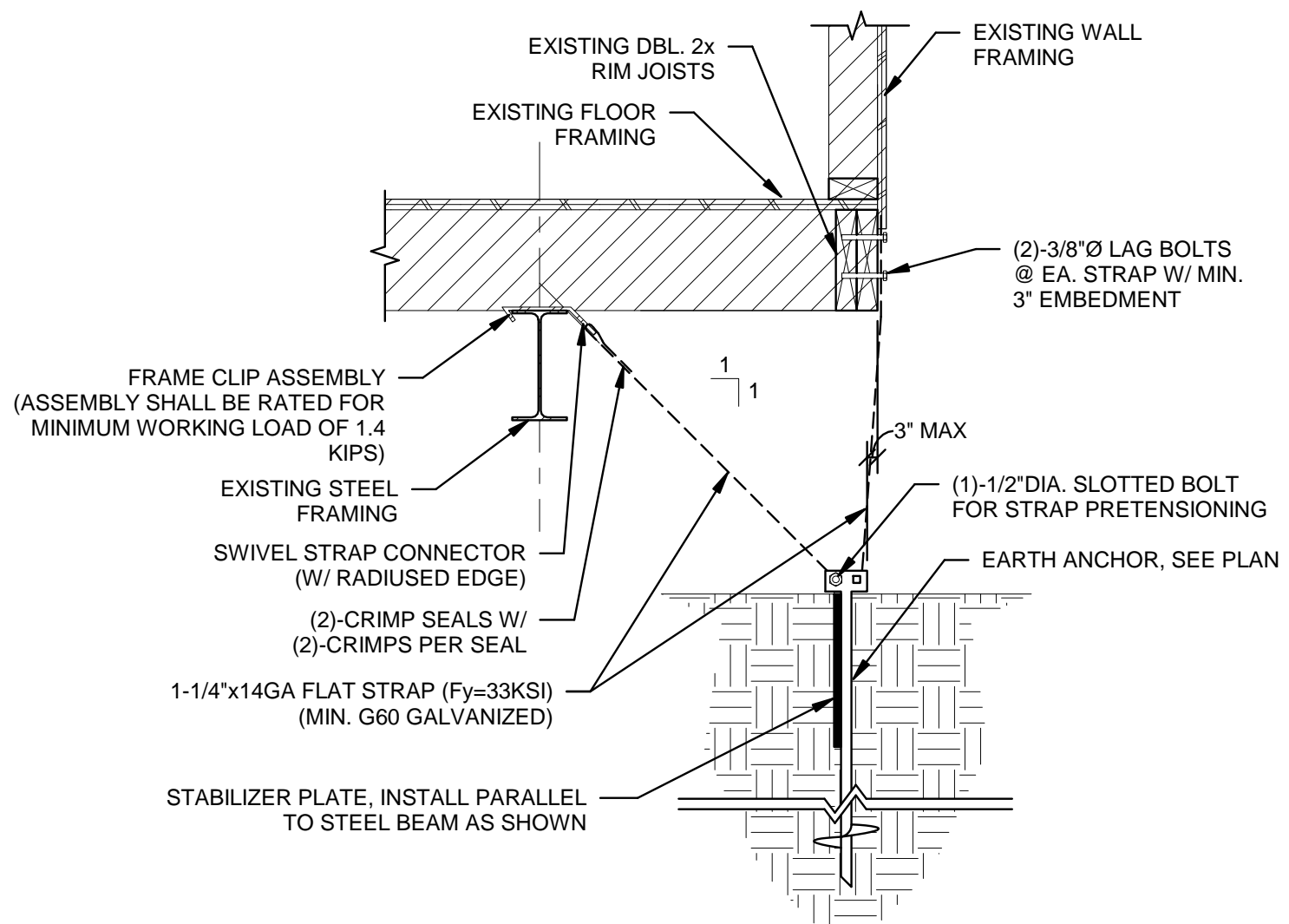
S202

SHEET ___ OF ___



18"x18" PRECAST PAD OR
18"x18" ABS PAD FOR
PORTABLE INSTALLATIONS

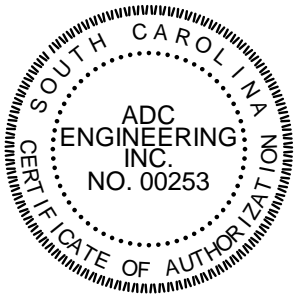
1 SECTION @ PIER
1" = 1'-0"



NOTES:

- SEE 1/S201 FOR EARTH ANCHOR INSTALLATION PROCEDURE

2 SECTION OF ANCHOR TYPE 1 (SEE PLAN)
1" = 1'-0"



ENGINEERING SPECIALISTS

SITE SERVICES | BUILDING ENVELOPE | STRUCTURAL

1226 YEAMANS HALL ROAD.
HANAHAN, SC 29410
843-566-0161
fax 843-566-0162
ADCENGINEERING.COM

DATE: 01.26.17

ADC PROJECT #: 16376

DESIGNED: JMD

CHECKED: JMD

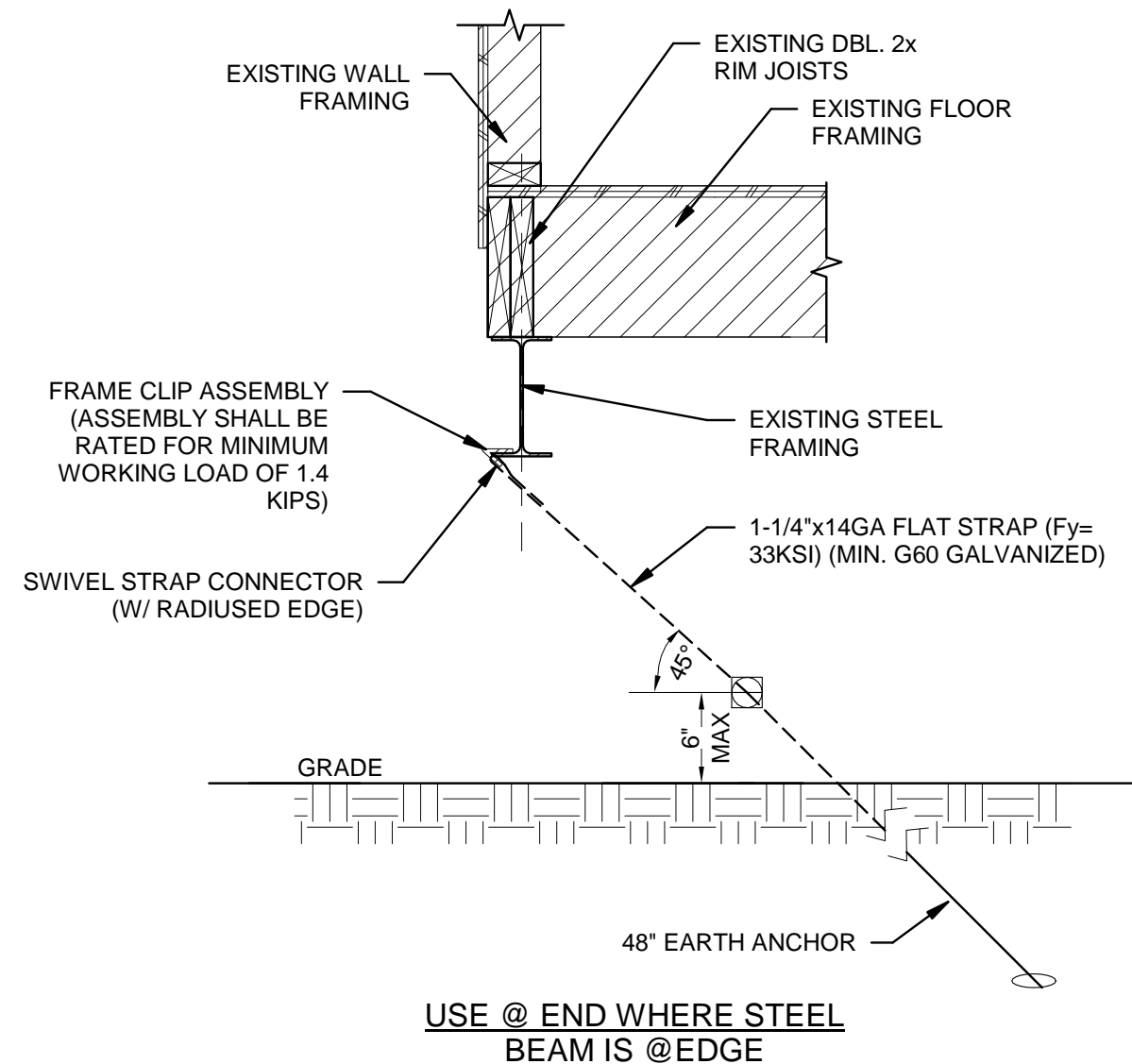
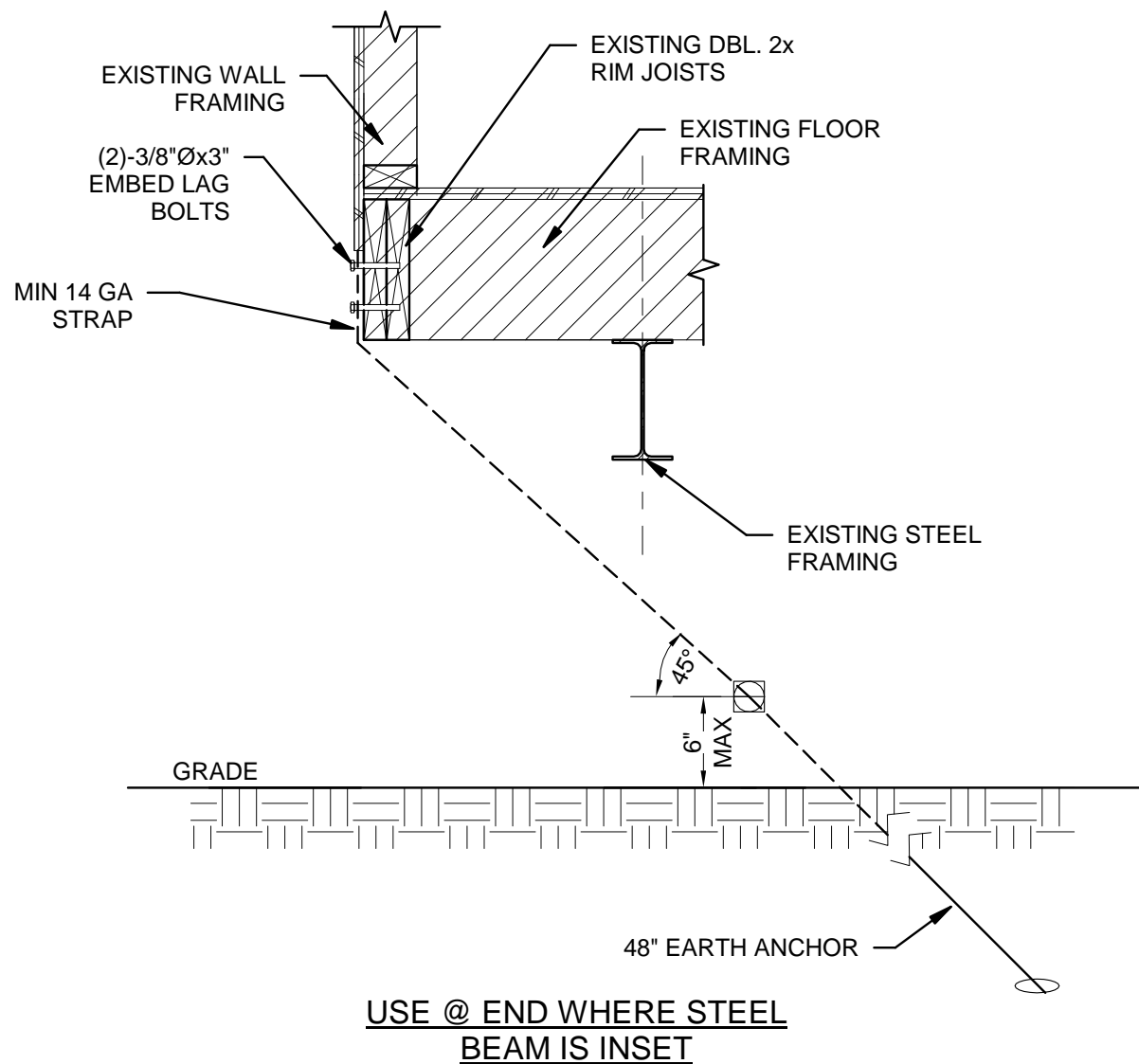
DRAWN: WLB

REVISION:

SECTIONS & DETAILS

S203

SHEET ___ OF ___



1
1" = 1'-0"

SECTION OF ANCHOR TYPE 2 - END WALL DETAIL OPTION 1

2
1" = 1'-0"

SECTION OF ANCHOR TYPE 2 - END WALL DETAIL OPTION 2