

NETTLES SAUSAGE

BEEF FACILITY

BUILDING PLANS

US HIGHWAY 441 & COUNTY ROAD 240 COLUMBIA COUNTY, FLORIDA



APPLICABLE CODES

2007 FLORIDA BUILDING CODE (RESIDENTIAL)
WITH 2009 REVISIONS
2007 NATIONAL ELECTRIC CODE (NFPA 70)
WITH 2009 REVISIONS
2007 FLORIDA BUILDING CODE REVISIONS (RESIDENTIAL)
WITH 2009 REVISIONS
2007 FLORIDA BUILDING CODE REVISIONS (RESIDENTIAL)
WITH 2009 REVISIONS

OCCUPANCY CLASS: FACTORY (F1)

OCCUPANCY LOADING EGRESS/REQUIREMENTS/CALCULATIONS SUMMARY:
100 GROSS OCCUPANTS PER S.F.*4,342 S.F. = 43 MAX. OCCUPANTS

MAXIMUM LENGTH OF EGRESS TRAVEL DISTANCE: 200 FT. TABLE 1016.1
LONGEST ACTUAL LENGTH OF EGRESS TRAVEL DISTANCE:71 FT.

MINIMUM NUMBER OF EXITS:2 ACTUAL4
(TABLE 1014.1 & 1018.2)

CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO YOUR SALES REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

BUILDING CRITERIA

CONSTRUCTION TYPE: V-B (TABLE 601) UNPROTECTED-NONSPRINKLED
ALLOWABLE AREA:.....8,500 S.F. ACTUAL:.....4,342 S.F.
ALLOWABLE STORIES:.....1 ACTUAL:.....1

WIND DESIGN INFORMATION

WIND SPEED:110 MPH
CATEGORY:II
EXPOSURE:B
INTERNAL PRESSURE:0.18+/-
CLADDING COMPONENTS

ZONE 1: 10 S.F.12.54/-19.92 PSF
ZONE 2: 10 S.F.12.54/-34.68 PSF
ZONE 3: 10 S.F.12.54/-51.28 PSF
ZONE 4: 10 S.F.21.77/-23.61 PSF
ZONE 5: 10 S.F.21.77/-29.15 PSF

LEGEND	
SYMBOL	DESCRIPTION
	ELEVATION MARK
	SECTION MARK
	DETAIL CALLOUT
	ELEVATION INDICATOR
	DOOR TAG
	WINDOW TAG
	ROOM TAG
	REVISION CLOUD W/ TAG

DRAWING INDEX - BUILDING PACKAGE			
SHEET #	SHEET TITLE	REV. #	REV. DATE
T-1.0	TITLE SHEET	0	06-11-10
C-1.0	SITE PLAN	0	06-11-10
S-1.0	GENERAL NOTES	0	06-11-10
S-2.0	FOUNDATION PLAN	0	06-11-10
S-3.0	ROOF FRAMING PLAN	0	06-11-10
S-4.0	SECTIONS	0	06-11-10
S-5.0	MASONRY ELEVATIONS	0	06-11-10
A-5.0	CONVEYOR BEAM PLAN	0	06-11-10
A-1.0	FLOOR PLAN	0	06-11-10
A-2.0	ELEVATIONS	0	06-11-10
A-3.0	HANGING CONVEYOR PLAN	0	06-11-10
E-1.0	ELECTRICAL PLAN	0	06-11-10
P-1.0	PLUMBING PLAN	0	06-11-10

PRODUCT APPROVAL SPECIFICATION TABLE				
USED THIS PROJECT	CATEGORY / SUBCATEGORY	MANUFACTURER	PRODUCT DESCRIPTION	FLORIDA APPROVAL NUMBERS
DOORS				
X	SWING	MASONITE INTERNATIONAL	METAL EDGE STEEL DOOR UNITS	16.1
X	SECTIONAL DOOR ASSEMBLY	WAYNE-DALTON CORPORATION	6500/6700 #0510 17' MAX WIDTH X 1' MAX HEIGHT	5587.11
	SECTIONAL DOOR ASSEMBLY	WAYNE-DALTON CORPORATION	9300/8500-510/8200 #0124 18' MAX WIDTH X 1' MAX HEIGHT	10737.1
	SLIDING DOOR ASSEMBLY	PELLA CORPORATION	SERIES 1925 VINYL HIGH PERFORMANCE	1824.1
WINDOWS				
	VINYL DOUBLE HUNG	PELLA CORPORATION	SERIES 2025 DOUBLE HUNG 36"X62"	11152.4
	VINYL DOUBLE HUNG	PELLA CORPORATION	ARCHITECT SERIES HURRICANE SHIELD CLAD 33"X53"	11386.5
	VINYL FLANGE FIXED	PELLA CORPORATION	SERIES 10 #6"X60"	8604.1
ROOFING				
	ASPHALT SHINGLES	TAMKO BUILDING PRODUCTS	HERITAGE 30 AR	1956.3
X	ASPHALT UNDERLAYMENT	TAMKO BUILDING PRODUCTS	MASTER SMOOTH	1481.1
X	METAL ROOFING	ASI BUILDING PRODUCTS	CMF EZLOCK 1.5	8605.1
STRUCTURAL COMPONENTS				
	HOLD DOWN	SIMPSON STRONG-TIE	HD2A	505.10
	HOLD DOWN	SIMPSON STRONG-TIE	ABU88	1725.1
X	COILED STRAP	SIMPSON STRONG-TIE	CS16	1901.4
	STRAP TIE	SIMPSON STRONG-TIE	LSTAB6	1901.36
	STRAP TIE	SIMPSON STRONG-TIE	MSTC40	1901.64
	STRAP TIE	SIMPSON STRONG-TIE	MSTC40	1901.70
	COLUMN CAP	SIMPSON STRONG-TIE	CC44	5805.4
	MULTIPLE TRUSS HANGER	SIMPSON STRONG-TIE	LTH4MA	474.214
X	HIP CORNER PLATE	SIMPSON STRONG-TIE	HCP2	474.109
X	FACE MOUNT HANGER	SIMPSON STRONG-TIE	LUS210	3750.87
	POST CAP	SIMPSON STRONG-TIE	PC66	474.287
	END POST CAP	SIMPSON STRONG-TIE	EPC66	474.68
	HIGH CAPACITY HANGER	SIMPSON STRONG-TIE	HUR12	5806.164
X	STUD PLATE TIES	SIMPSON STRONG-TIE	SPH4	538.21
	STUD PLATE TIES	SIMPSON STRONG-TIE	SPH6	538.35
	HURRICANE TIES	SIMPSON STRONG-TIE	HETAL20	11473.1
	JACK TRUSS CONNECTOR	SIMPSON STRONG-TIE	TJC37	6482.17
	VALLEY TRUSS CLIP	SIMPSON STRONG-TIE	VTC2	3751.6

ISSUED FOR CONSTRUCTION

NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

TITLE SHEET

PROJECT NUMBER

PF10-051-S

DRAWN BY

F. VULETICH

CHECKED BY

G.G.

T-1.0

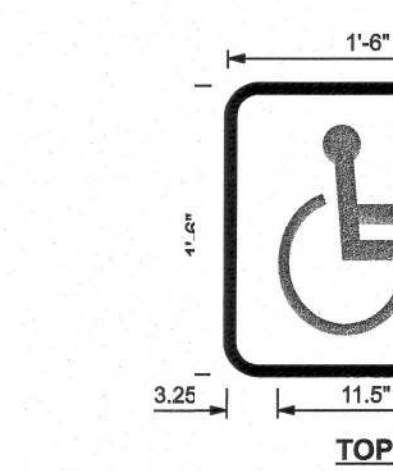
GENERAL NOTES

- The contractor shall verify all existing conditions and dimensions at the job site to insure that all new work will fit in the manner intended on the plans. Should any conditions exist that are contrary to those shown on the plans, the contractor shall notify the engineer and Columbia County, Florida (Department of Growth Management) of such differences immediately & prior to proceeding with the work.
- The contractor shall maintain the construction site at all times in a secure manner. All open trenches and excavated areas shall be protected from access by the general public.
- Boundary and topographical information shown was obtained from a survey performed by Donald F. Lee & Associates, Inc., P.S.M. Florida Certificate #7042.
- Any public land owner within the limits of construction is to be protected. If a corner monument is in danger of being destroyed and has not been properly referenced, the contractor should notify the engineer.
- Contractor shall contact GTC Design Group, LLC and Department of Public Works for Columbia County to perform site inspections. No Certificate of Occupancy will be issued for any developments that do not receive the following inspections:
 - Erosion & sediment control inspection (prior to commencing construction)
 - Completion of clearing and grubbing (GTC visual site visit/no test requirements)
 - Rough Grading and Drainage Structures and pipes in place (Density and LBR test results required)
 - Subgrade and linerrock base of pavement sections complete (Density and LBR test results required)
 - Asphalt/Concrete in place (Thickness and Density tests required)
 - Site Compliance Inspection (once building foundation poured)
 - Final Site Compliance Inspection (once all improvements are finalized)
- Contractors shall adhere to the Erosion Control Plan. All erosion control measures shall be implemented prior to construction and be continued until construction is complete. Any failure of erosion measures must be corrected immediately per SWPPP.
- All disturbed areas not sodded shall be seeded with a mixture of long-term vegetation and quick-growing short-term vegetation for the following conditions. For the months from September through March, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of winter rye. For the months of April through August, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of millet.
- A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
- Existing drainage structures within the construction limits shall be removed, unless otherwise specified in the plans.
- The contractor shall waste all excess earth on site as directed by the engineer.
- All site construction shall be in accordance with the Columbia County Land Development Regulations.
- Contractor shall provide an as-built survey meeting the requirements of Chapter 61G17 F.A.C. for the stormwater management systems. Include horizontal and vertical dimensional data so that improvements are located and delineated relative to the boundary. Provide sufficient detailed data to determine whether the improvements were constructed in accordance with the plans. Submit the survey to the engineer on reproducible 20 lb. Vellum.
- Contractor shall review and become familiar with all required utility connections prior to bidding and determine exact location during construction. Contractor shall provide all work and materials required to complete connection to the existing utilities. The location of the utilities shown in the plans is approximate only. The exact location shall be determined by the contractor during construction. This includes, but is not limited to, manhole coring, wet taps, pavement repairs and directional boring.
- Contractor shall coordinate all work with other contractors within project limits.
- Contractor shall seed and mulch all disturbed areas, and shall sod all slopes of 5' horizontal to 1' vertical to 3' horizontal to 1' vertical and shall staple sod all slopes steeper than 3' horizontal to 1' vertical.
- All swales, depression areas and retention ponds shall be inspected monthly for sinkhole occurrence. Should a sinkhole occur, the area should be repaired as soon as possible. If a solution pipe sinkhole does form in the stormwater system, then the sinkhole shall be repaired by backfilling with a lower permeability material, a 2-foot cap that extends 2 feet beyond the perimeter of the sinkhole shall be constructed with clayey soils. The clayey soil should have at least 20% passing the number 200 sieve, compacted to 95% of Standard Proctor, and compacted in a wet condition with moisture 2%-4% above optimum. The clay soil cap shall be re-graded to prevent ponding and re-vegetated.
- All stormwater pipes shall have a minimum cover of 6". Use Limerock backfill if pipe under pavement has less than 12" cover.
- Potable water will be supplied by an existing on site well and sanitary sewer will be supplied by on-site septic system.
- The construction plans must be reviewed and approved by Columbia County prior to commencing construction.
- All materials and construction shall conform to the requirements of the FDOT Standard Specifications for Road and Bridge Construction.
- The materials and construction shall be certified by a testing laboratory retained by the contractor. Copies of all test results shall be provided prior to acceptance.
- All traffic control and safety items (stripping, stop bars, regulatory signs, etc.) shall be in place before final Certificate of Occupancy.
- The temporary grass shall be sufficient to control erosion during periods of construction when earth work areas are left for more than 7 calendar days.
- Final inspection for acceptance to be performed by GTC Design Group and Public Works Director.

EROSION CONTROL NOTES

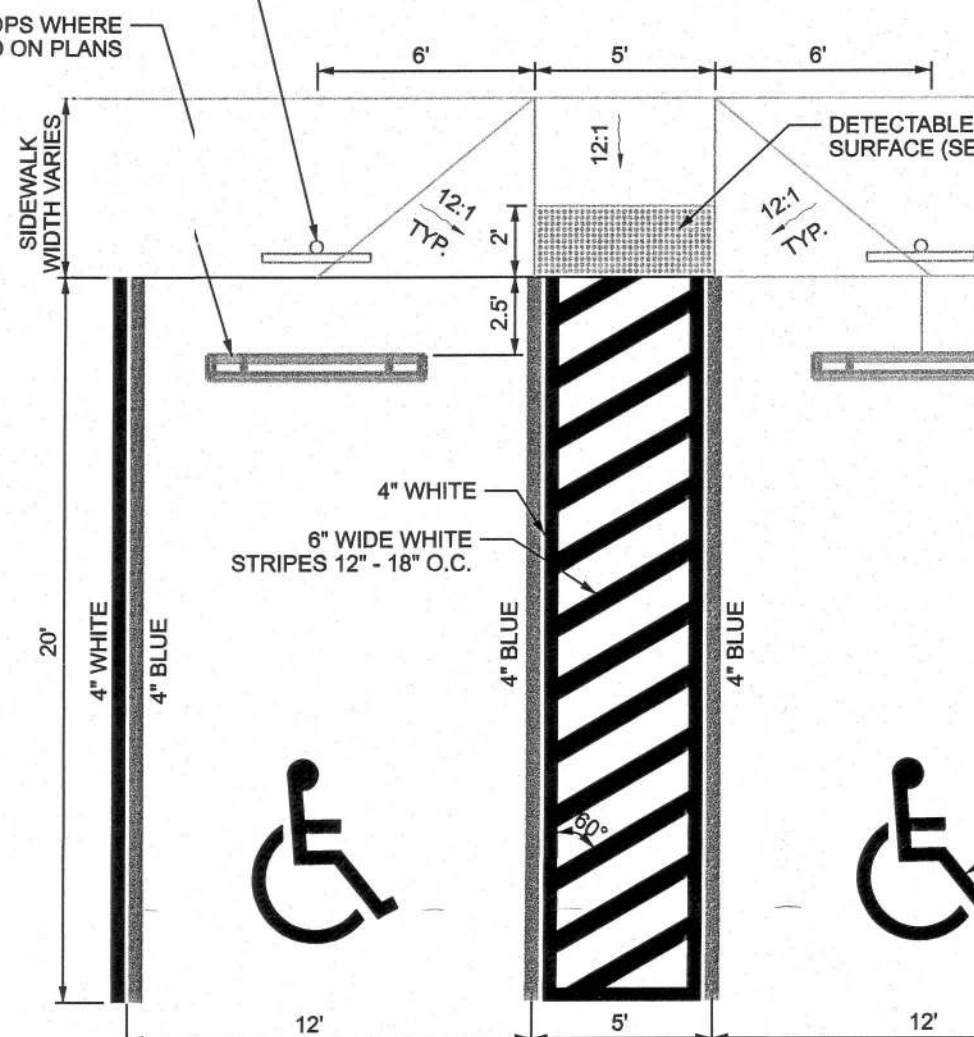
- Contractor shall adhere to Columbia County, SRWMD and other governing authorities for erosion and sediment control regulations. Contractor shall use BMP's from "The Florida Development Manual".
- Sediment and erosion control facilities, storm drainage facilities and detention basins shall be installed prior to any other construction.
- Erosion control measures shall be inspected weekly and after each rainfall and replaced as necessary.
- Sediment and erosion control measures shall not be removed until all construction is complete and until a permanent ground cover has been established.
- All open drainage swales shall be grassed and riprap shall be placed as required to control erosion.
- Silt fences shall be located on site to prevent sediment and erosion from leaving right-of-way limits.
- Additional erosion control devices shall be used as required.
- Silt fence shall be cleaned or replaced when silt builds up to within one foot of top of silt fence.
- During construction and after construction is complete, all structures shall be cleaned of all debris and excess sediment.
- All grades areas shall be stabilized immediately with a temporary fast-growing cover and/or mulch.
- A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
- All disturbed areas not sodded shall be seeded with a mixture of long-term vegetation and quick-growing short-term vegetation for the following conditions. For the months from September through March, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of winter rye. For the months of April through August, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of millet.
- Staked silt fences shall be placed near all box culvert extensions in accordance with FDOT Standard Index 102.
- Disturbed areas with shall be stabilized by sodding, grassing, and mulching. All side slopes steeper than 4:1 shall be adequately protected from erosion through the use of hay bales or sodding.
- All stabilization practices shall be initiated as soon as practicable in areas of the job where construction activities have temporarily or permanently stopped, but in no case shall the disturbed area be left unprotected for more than seven (7) days.
- If the proposed erosion control plan does not work, the contractor should use the BMP's in the Florida Erosion and Sediment Control Inspector's manual to implement a plan that will work and meet actual field conditions.
- All waste generated on the project shall be disposed of by the contractor in areas provided by contractor.
- Loaded haul trucks shall be covered with tarps.
- Excess dirt shall be removed daily.
- Fertilizer shall be applied as specified in the plans and specifications.
- This project shall comply with all water quality standards. Permit required from SRWMD has been obtained.
- All pollution controls shall be maintained at all times.
- Type IV silt fence shall be placed to prevent sediment. Silt fence shall be replaced after three (3) months or when sediment reaches one-half (1/2) the height of the fence.
- Qualified personnel shall inspect the area used for storage of stockpiles, the silt fence and straw bales, the location where vehicles enter or exit the site, and the disturbed areas that have not been finally stabilized, at least once every seven (7) calendar days and within 24 hours of the end of a storm of 0.2 inches or greater.
- Sites that have been finally stabilized with sod or grassing shall be inspected at least once every week.
- Contractor is responsible for the construction and maintenance of all erosion and sedimentation controls during proposed construction.

FT-1-06
1'-2'-0" BORDERS
2" DII 3/8" BORDER
1.5 SERIES C LEGEND
COR
BACKGROUND
LEND & BORDER



DISABLED PARKING STALL SIGN DETAIL

NTS



SIGN SHALL BE PLACED IN FRONT OF ALL DESIGNATED HANDICAPPED SPACES. SIGN HEIGHT SHALL BE 7' FROM PAVEMENT TO BOTTOM OF SIGN.

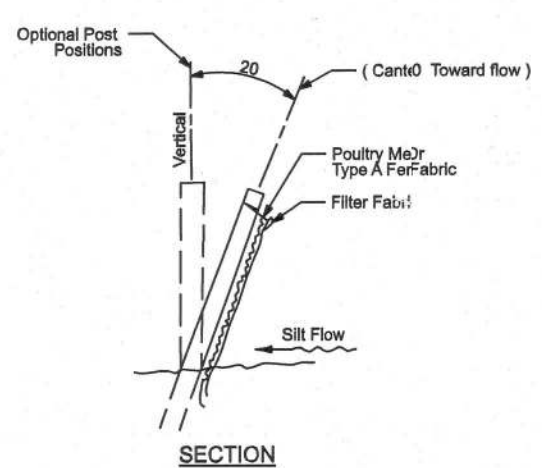
5' HANDICAPPED AISLE MAY BE PLACED ON THE RIGHT OR LEFT SIDE OF PARKING STALL.

HANDICAPPED PARKING SYMBOL SHALL BE 3 OR 5 FT. HIGH AND WHITE IN COLOR.

SEE SITE PLAN FOR ADDITIONAL PARKING STALL DIMENSIONS.

DISABLED PARKING STALL DETAIL

NTS



TYPE IV SILT FENCE

NTS

AS COMPARED TO TYPE III SILT FENCE, TYPE IV FENCE HAS GREATER STRENGTH AND HEIGHT WHICH REDUCES POSSIBILITY OF SEDIMENT AND WATER FROM OVERTOPPING THE FENCE AS A RESULT, AVOID USING TYPE IV FENCE IN AREAS WHERE THE DEED WATER WOULD BACK INTO TRAVEL LANES OR OFF TRIGHT OF WAY.

Notes:
1. Dig Trench 6" Deep
2. Lay Fabric to Bottom of Trench
3. Backfill Trench Covering Fabric
4. Place Silt Fence on Upstream Side of Post

Post (Options: 4" x 4" Cr 2" Min. Dia. Wood Steel 1.33 Lbs/ft. Min.)

Filter Fabric (1/2" Min. Permeability with 1/8" Foot Spec.)

3'-0" Min. High

2'-0" Min. Wide

1'-0" Min. Deep

5' Metal Post or 2'x2' Wooden Post

Direction of Flow

Ground Line

6" Cr Spacing

8' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

12' Min.

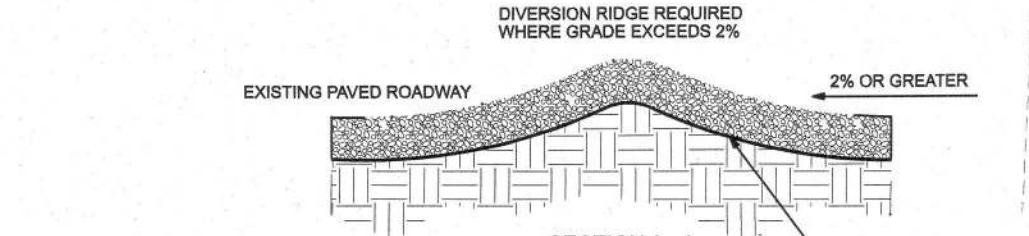
12' Min.

12' Min.

12' Min.

12' Min.

12' Min.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NTS

NOTE: USE SANDBAGS, OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.

SPILLWAY

SEDIMENT BARRIER (TYPE IV SILT FENCE SHOWN)

SUPPLY WATER TO WASH WHEELS IF NECESSARY.

EXISTING PAVED ROADWAY

50' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

12' MIN.

PROJECT CONTACTS

GTC DESIGN GROUP
(386) 719-8965

COLUMBIA COUNTY PUBLIC WORKS
(386) 758-1019

COLUMBIA COUNTY PLANNING AND ZONING
(386) 758-1008

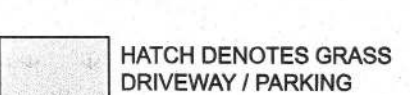
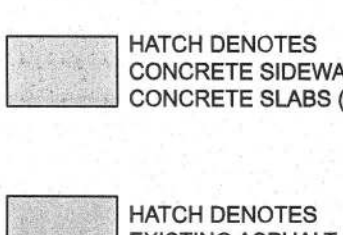
SUWANNEE RIVER WATER MANAGEMENT
(386) 362-1001

ZONING: A-3

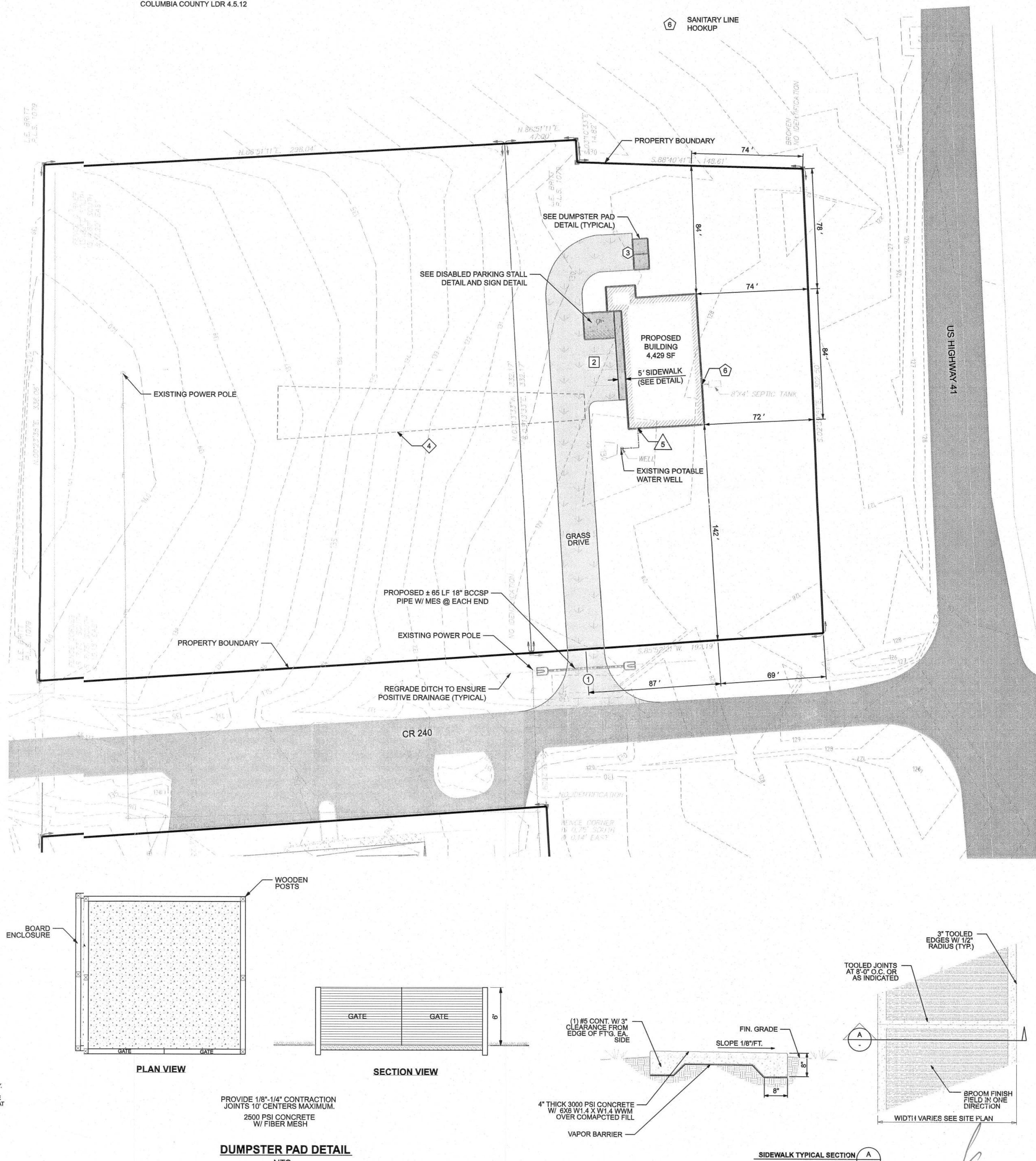
PARKING SPACES PROVIDED
REGULAR SPACES PROVIDED: 4 SPACES
HANDICAP SPACES PROVIDED: 1 SPACE
TOTAL SPACES PROVIDED: 5 SPACES
TOTAL SPACES REQUIRED: 3 SPACES

IMPERVIOUS AREA
BUILDING: 4,429 SF
CONCRETE: 825 SF
TOTAL: 5,304 SF

NOTE:
NO PROPOSED SCREENING, BUFFERING, OR LANDSCAPING IS REQUIRED ACCORDING TO COLUMBIA COUNTY LDR 4.5.12



- INGRESS / EGRESS
- OFF-STREET PARKING
- OFF-STREET LOADING (2 10'x10' DUMPSTER PADS)
- REQUIRED BUILDING SETBACKS
- POTABLE WATER HOOKUP
- SANITARY LINE HOOKUP



DUMPSTER PAD DETAIL

NTS

PROVIDE 1/8"-1/4" CONTRACTION JOINTS 10' CENTERS MAXIMUM. 2500 PSI CONCRETE W/ FIBER MESH

(1) #5 CONT. W/ 3" CLEARANCE FROM EDGE OF FTG. EA. SIDE

4" THICK 3000 PSI CONCRETE W/ 6X6 W1.4 X W1.4 WWM OVER COMPACTED FILL

VAPOR BARRIER

SIDEWALK TYPICAL SECTION

NTS

3" TOOLED EDGES W/ 1/2" RADIUS (TYP.)

TOOLED JOINTS AT 8' O.C. OR LESS AS INDICATED

BROOM FINISH FIELD IN ONE DIRECTION

WIDTH VARIES SEE SITE PLAN

REVISION NOTES

DATE

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

DESIGN CRITERIA

DESIGN PER 2007 FLORIDA BUILDING CODE UNLESS OTHERWISE NOTED.

LIVE LOADS:

1. ROOFS AND CANOPIES:	
0 TO 200 SF	16PSF
201 TO 600 SF	14PSF
OVER 600 SF	12PSF
STAIRS	100PSF
FLOORS	50PSF
CORRIDORS	80PSF
LOBBIES	80PSF
BALCONIES	60PSF
PARTITION LOAD (DEAD LOAD)	20PSF
2. THIS BUILDING IS NOT LOCATED IN THE WIND BORNE DEBRIS REGION. IMPACT RESISTANT GLAZING IS NOT REQUIRED.	

STRUCTURAL STEEL

1. MATERIALS SHALL BE AS FOLLOWS:

W-SHAPES	ASTM 992, Fy=50 KSI
OTHER SHAPES & PLATES	ASTM A36, Fy=36 KSI
HSS SQUARE & RECTANGULAR SHAPES	ASTM A500 GRADE B, Fy= 46 KSI
HSS ROUND SHAPES	ASTM A500 GRADE B, Fy= 42 KSI
STEEL PIPES	ASTM A53 GRADE B, Fy= 35 KSI
WELDING ELECTRODES	AWS A5.1 OR A5.5 SERIES E70
HIGH-STRENGTH BOLTS	3/4" A325
ANCHOR RODS	GRADE 36 ASTM F1554
WELDED STUDS	ASTM A108
DEFORMED BARS	ASTM A496
PAINT & PROTECTION	SSPC PAINT 25
SOIL BEARING (DESIGN MAXIMUM)	1500PSF

2. DESIGN PER MOST CURRENT EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN", UNLESS OTHERWISE NOTED.

3. PROVIDE STRUCTURAL STEEL HAVING A MINIMUM YIELD STRENGTH OF 36 KSI THAT MEETS ASTM A36 STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL.

4. SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING ERECTION PLANS, FABRICATED ASSEMBLIES AND ACCESSORIES. SHOW MEMBER DESIGNATIONS, SIZES AND CONNECTIONS.

5. MAKE CONNECTIONS WITH HIGH STRENGTH A325 BOLTS OR WELDS USING E70 ELECTRODES. DETAIL BOLTED SHEAR CONNECTIONS FOR MAXIMUM END REACTIONS OF MEMBER SUPPORTED AND WELDED JOINTS FOR FULL STRENGTH OF MEMBERS CONNECTED.

6. WHERE BEAMS BEAR ON WOOD PROVIDE STEEL BEARING PLATES AND ANCHOR BOLTS.

7. PROVIDE TEMPORARY BRACING TO HOLD STRUCTURAL STEEL SECURELY IN POSITION DURING ERECTION. DO NOT REMOVE BRACING UNTIL PERMANENT BRACING IS INSTALLED.

CONCRETE

1. ALL CONCRETE DESIGNED PER CURRENT EDITION OF ACI 318	
2. ALL CONCRETE SHALL BE CONTROLLED CONCRETE.	
3. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:	
A. FOUNDATION WALLS, PIERS AND FOOTINGS	3000 PSI
B. SLABS ON GRADE	3000 PSI
C. ALL OTHER CONCRETE	3000 PSI
4. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NOMINAL AIR DRY DENSITY OF 145 PCF	
5. PROVIDE CONSTRUCTION JOINTS WHERE SHOWN. OMIT NONE AND ADD NONE WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER. SUBMI DRAWINGS SHOWING ALL PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL PRIOR TO PREPERATION OF AFFECTED REINFORCEMENT SHOP DRAWINGS.	
6. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HRS.	
7. CONCRETE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR ARCHITECT /ENGINEER REVIEW 30 DAYS PRIOR TO PLACEMENT OF CONCRETE.	
8. ALL REINFORCING STEEL ASTM A615 GRADE 60, ALL WELDED WIRE FABRIC ASTM A185	

REINFORCING

ALL BAR REINFORCEMENT SHALL CONFORM TO ASTM 615 GRADE 60

WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.

CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAIL)

A. UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTING OR WALL BOTTOM)	3"
B. SLABS ON GRADE	2 1/2"
C. FORMED SURFACE IN CONTACT WITH GROUND OR EXPOSED TO WEATHER (WALLS, PIERS)	2"
D. IN ALL CASES, CLEARANCE NOT LESS THAN DIAMETER OF BARS.	

NOTE:MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE + 1/4" FOR SECTIONS 10" OR LESS AND + 1/2" FOR SECTIONS OVER 10" THICK.

REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON DRAWINGS.

WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS, AS DETERMINED BY THE ARCHITECT/ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM PERMITTED BY APPLICABLE CODES.

ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315)

ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER OR OWNER TESTING AGENCY BEFORE CONCRETE IS PLACED.

WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPLICES AND HOOKED AT DISCONTINUOUS ENDS.

WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6" MINIMUM.

ALL REINFORCING SPLICES SHALL CONFORM TO THE TABLE(S) PROVIDED IN THE GENERAL NOTES FOR STRENGTH OF CONCRETE BUT IN NO CASE LESS THAN THE REQUIREMENTS OF THE LATEST EDITION OF ACI-318.

SLABS AND WALLS SHALL NOT BE SLEEVED OR BOXED OUT OR HAVE THEIR REINFORCING INTERRUPTED EXCEPT AS SPECIFICALLY NOTED ON THE DRAWINGS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE DETAILS.

SUBMIT CHECKED SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REINFORCING. DRAWINGS SHALL SHOW REINFORCING DETAILS, INCLUDING SIZE AND SPACING OF BARS AND SUPPORT DETAILS. SHOP DRAWINGS SHALL INDICATE CONSTRUCTION JOINTS, CURBS, DEPRESSIONS, SLEEVES AND OPENINGS, ETC. WITH ALL ADDITIONAL REINFORCING REQUIRED.

BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT WITH EXPOSE SURFACES SHALL BE GALVANIZED AND PLASTIC TIPPED.

LAB AND WALL REINFORCING LAP SPLICE LENGTHS

IP SPLICE LENGTHS FOR REINFRNCING IN 4000 PSI CONCRETE ARE AS FOLLOWS:

BAR SIZE	TENSION SPLICE		DEVELOPMENT LENGTH
	TOP	OTHER	
3	21	15	13
4	29	20	17
5	35	25	21
6	43	31	25
7	54	39	32
8	71	51	42

IP SPLICE LENGTHS FOR REINFORCING IN 3000 PSI CONCRETE ARE AS FOLLOWS:

BAR SIZE	TENSION SPLICE		DEVELOPMENT LENGTH
	TOP	OTHER	
3	21	15	13
4	29	20	17
5	35	25	21
6	46	33	27
7	63	45	37
8	82	59	49

NOTES:

- LAPPED SPLICE LENGTHS BASED ON ASTM A-615. GADE 60, REBAR
- REINFORCING BARS ARE CLASSIFIED AS TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.
- COMPRESSION SPLICES PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS, DETAILS OR SCHEDULES.
- TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS AND WALLS UNLESS OTHERWISE NOTED
- WHEN LAPPING LARGER BAR WITH SMALLER BAR, LAP LENGTH FOR SMALLER BAR SHALL GOVERN RESPECTIVE SPLICE.
- SPLICE CONTINUOUS TOP REINFORCING BARS AT CENTER OF CLEAR SPAN WITH COMPRESSION SPLICES.
- SPLICE CONTINUOUS BOTTOM REINFORCING BARS AT CENTER OF SUPPORTING ELEMENT WITH COMPRESSION SPLICES
- ALL SPLICE LENGTHS NOTED IN INCHES

FOUNDATIONS

ALL FINISHED EXCAVATIONS AND BEARING GRADES SHALL BE INSPECTED AND APPROVED BY THE OWNERS SOIL TESTING AGENCY BEFORE ANY CONCRETE IS PLACED.

ALL FOUNDATION WALLS SHALL BE BRACED DURING THE OPERATION OF BACKFILLING AND COMPACTION BRACING SHALL BE LEFT IN POSITION UNTIL PERMANENT RESTRAINTS ARE EFFECTIVE. BACKFILL NO FOUNDATION WALLS UNTIL PERMANENT LATERAL STRUCTURAL SUPPORT SYSTEM IS IN PLACE AND OF ADEQUATE STRENGTH TO WITHSTAND THE APPLIED LATERAL PRESSURES.

LOCATE ALL EXISTING BELOW GRADE UTILITIES. PROVIDE UTILITIES WITH POSITIVE PROTECTION AGAINST DAMAGE DUE TO SETTLEMENT AND CONSTRUCTION OPERATIONS.

ALL FOOTING SUBGRADES, AS REQUIRED, AND ALL SLAB SUBGRADES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT BASED ON LABORATORY DESIGNATION ASTM D1557.

COMBINED AND INDIVIDUAL FOOTINGS AR DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 1,500 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 1,500 PSF.

FLOOR SLABS

FLOOR SLABS SHALL BE SUPPORTED ON AT LEAST 4" OF RELATIVELY CLEAN GRANULAR MATERIAL SUCH AS SAND, SAND AND GRAVEL, OR CRUSHED STONE. GRANULAR MATERIAL SHALL HAVE 100% PASSING THE 1 1/2" SIEVE AND A MAXIMUM OF 10% PASSING THE NO. 200 SIEVE.

STRUCTURAL FILL SHALL BE PLACED IN THIN LOOSE LIFTS NOT EXCEEDING 12" IN THICKNESS AND COMPACTED WITH A HEAVY ROLLER. EACH LIFT SHALL BE THOROUGHLY COMPACTED WITH THE LABORATORY ROLLER TO PROVIDE DENSITIES TO AT LEAST 95% OF THE PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). STRUCTURAL FILL SHALL CONSIST OF AN INORGANIC, NON-PLASTIC, GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE 200 MESH SIEVE.

CMU WALL NOTES

EXTERIOR BEARING WALLS:

- CONCRETE MASONRY (DESIGN PER CURRENT EDITION ACI 530) COMPRESSIVE STRENGTH.....FM= 1500 PSI
- PROVIDE (1) #5 VERTICAL BARS FULL HEIGHT OF WALL AT ENDS OF WALLS. PROVIDE #3 HORIZONTAL TIES BETWEEN VERTICAL BARS SPACED AT 16" O.C. PROVIDE REINFORCING BAR POSITIONERS TO PLACE VERTICAL REINFORCEMENT BARS IN THE CENTER OF ALL CMU WALLS UNLESS INDICATED OR SHOWN OTHERWISE ON THE DRAWINGS.
- PROVIDE LADDER TYPE 9 GA. (W1.7) SIDE AND CROSS RODS, CONTINUOUS GALVONIZED HORIZONTAL REINFORCEMENT SPACED AT 16" O.C. FOR FULL HEIGHT OF ALL WALLS. PLACE FIRST RUN OF HORIZONTAL REINFORCEMENT ON TOP OF FIRST COURSE OF CMU ABOVE TOP OF FOUNDATIONS. PROVIDE CONTINUITY OF HORIZONTAL REINFORCEMENT AT CORNERS AND WALL INTERSECTIONS BY USING PREFABRICATED "L" AND "T" SECTIONS.
- GROUT ALL REINFORCEMENT SOLID IN CMU WITH MIN. F'C = 2000 GROUT. GROUTED MASONRY UNITS SHALL BE FILLED SOLID WITH MIN. 2000 PSI GROUT. GROUT SLUMP 8 TO 10 INCHES.
- 16" AND DEEPER BOND BEAMS AND LINTELS MAY BE COSTRUCTED WITH STANDARD 12" LENTIL BLOCKS FOR THE BOTTOM COURSE AND 12" OPEN END COURSES FOR COURSES ABOVE THE LINTEL COURSE. PRECAST LINTELS SHALL BEREINFORCED WITH (4) #5 AND SHALL HAVE A MIN. OF 8" BEARING EACH END. AN OPENING SHALL BE PROVIDED AT THE END OF THE LINTELS FOR VERTICAL WALL REINFORCEMENT. LINTELS SHALL BE MADE OF F'C = 3500 PSI CONCRETE.
- MAKE ALL HORIZONTAL BARS IN BOND BEAMS CONTINUOUS AROUND CORNERS BY THE USE OF CORNER BARS FOR EACH BAR IN BOND BEAMS. CORNER BARS TO A MIN. OF 48 BAR DIAMETERS. WITH BOND BEAM BARS.
- SEE THE CMU LINTEL SCHEDULE ON SHEET S-3.0 ROOF FRAMING PLAN FOR CMU LINTEL SIZES AND REINFORCEMENT FOR WALL OPENINGS.
- LAP SPLICES FOR ALL REINFORCEMENT IN CMU WALLS SHALL BE A MIN. OF 48 BAR DIAMETERS.
- PROVIDE VERTICAL DOWELS FOR ALL CMU WALL VERTICAL REINFORCING BARS TO THE FOUNDATIONS. DOWEL BARS TO MATCH SIZE OF CMU VERTICAL BARS AND TO BE LAPPED A MIN. OF 48 BAR DIAMETERS.

SUPPLEMENTARY NOTES

- ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE, UON. OTHER MANUFACTURERS MAY BE SUBSTITUTED. SCREW SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG. ROOF TRUSS CLIPS SHALL BE SELECTED TO PROVIDE THE UPLIFT RESISTANCE SHOWN ON THE ROOF TRUSS SHOP DRAWINGS.
- TRUSS ENGINEER MAY PROVIDE ALTERNATE CONNECTIONS.
- PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.
- EMBEDMENT FOR EXPANSION BOLTS SHALL BE 3 1/4" MINIMUM FOR 3/4" BOLTS IN CONCRETE, 5 1/4" IN GROUTED MASONRY. HILTI KWIK BOLT II OR EQUAL. EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY RAWL. HY150 CARTRIDGE SYSTEM BY HILTI. (HILTI RE500, IF HOLE IS CORED INSTEAD OF DRILLED) OR APPROVED EQUAL, UON. EMBEDMENT SHALL BE 12 BAR DIAMETERS MINIMUM, UON. HOLES SHALL BE 1/4" LARGER THAN REBAR SIZE, AND 3/8" LARGER THAN THREADED ROD SIZE. HOLE SHALL BE BRUSHED OUT WITH BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH A FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE OF THE PROJECT. GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT / ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "RUBBE STAMPED" SHALL BE RETURNED WITHOUT REVIEW.
- CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.

TERMITE PROTECTION NOTES:

- SOIL CHEMICAL BARREIER METHOD:
A PERMANENT SIGN THAT IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHAL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 1042.6
- CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4
- IRRIGATION/SPRINKLERS SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 3/8" THICK ADHERED DIRECTLY TO FOUNDATION WALL. FBC 1816.1.1
- INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
- SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2
- BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC. SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS, PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ILMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3
- MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL. DILUTION, IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4
- CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC. 1816.1.5
- SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6
- AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1916.1.6
- ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. FBC 1816.1.6
- A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE "THE BUILDING HAS RECEIVED A COMPLTE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7
- AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 303.1.3
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 3203.1.4

ROUGH CARPENTRY

GENERAL

- COMPLY WITH THE MOST CURRENT ADDITION OF THE "AFPA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION MANUAL" AND THE MOST CURRENT ADDITION OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION "TIMBER CONSTRUCTION MANUAL"
- PROVIDE NEW LUMBER AND PLYWOOD WITH GRADE WHICH INDICATES SPECIES, MILL NUMBER, MOISTURE CONTENT WHEN SURFACED, AND GRADE RO STRESS RATING STAMPS FROM THE ASSOCIATIONS HAVING JURISDICTION.
- FASTEN STUDS AND RAFTERS WITH WIND TIES/CLIPS: JOISTS AND RAFTERS TO SIDE OF BEAMS WITH HANGERS, AND SHEAR WALLS WITH HOLD-DOWNS USING PROPRIETARY STEEL CONNECTORS.
- PRESSURE TREAT ALL STRUCTURAL LUMBER IN COMPLIANCE WITH SPECIFICATIONS.
- PROVIDE HOT DIPPED GALVANIZED OR STAINLESS STEEL FASTENERS AND HARDWARE CONNCTORS AT PRESSURE TREATED STRUCTURAL LUMBER.
- PROVIDE WOOD HARDWARE CONNECTORS AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY INC."

WALL CONSTRUCTION

- PROVIDE SOUTHERN PINE GRADE KILN-DRIED STUDS WITH MAXIMUM MOISTURE CONTENT OF 15% AT TIME OF DRESSING.
- FRAME INTERIOR WALLS WITH 2"x4" STUDS @ 16" O.C. AND EXTERIOR WALLS WITH 2"x6" @ 16" O.C. FOR HEIGHTS UNDER 10'-0"
- PROVIDE SOLID WALL BRIDGING SPACED AT 4'-0" VERTICALLY.
- VERTICALLY ALIGN STUDS AND OPENINGS IN BEARING WALLS UNLESS SPECIAL FRAMING IS PROVIDED.
- FORM CORNERS WITH A MINIMUM OF 3 STUDS SPIKED TOGETHER.
- PROVIDE SINGLE BOTTOM SHOE AND DOUBLE TOP PLATE IN ALL BEARING WALLS. OFFSET TOP PLATES A MINIMUM OF 4'-0". TIE SHOE AND TOP PLATE BUTT JOINTS TOGETHER WITH METAL PLATES. ANCHOR SILLS WITH 5/8"Ø BOLTS EMBEDDED 8" AND SPACED NO MORE THAN 4'-0" APART AND LOCATED AT CORNERS AND 12" FROM OPENINGS AND ENDS OF WALLS.
- FABRICATE BUILT-UP POSTS AS FOLLOWS:
A. (2) 2"x4"S FASTENED WITH ONE ROW OF STAGGERED 10d NAILS @6"
B. (3) 2"x4"S FASTENED WITH ONE ROW OF STAGGERED 30d NAILS @ 8"
C. (3) 2"x6"S FASTENED WITH TWO ROWS OF 30d NAILS

FLOOR AND ROOF CONSTRUCTION

- PROVIDE SOUTHERN PINE NO. 2 OR BETTER LUMBER FOR JOISTS AND RAFTERS SURFACED DRY WITH MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF DRESSING.
- LOCATE JOISTS AND RAFTERS DIRECTLY OVER WALL STUDS.
- PROVIDE DOUBLE JOIST UNDER WALL PARALLEL TO JOISTS.
- NOTCHES IN JOISTS SHALL NOT EXCEED 1/6 OF THE JOIST DEPTH AND SHALL NOT BE IN THE MIDDLE THIRD OF THE SPAN. BORED HOLES SHALL NOT BE WITHIN 2" OF JOIST EDGES AND SHALL NOT EXCEED 1/3 OF THE DEPTH OF THE JOIST.
- INSTALL ONE LINE OF 1"x3" CROSS BRIDGING FOR EACH 8'-0" OF FLOOR FRAMING. INSTALL 2" SOLID BLOCKING BETWEEN JOISTS OVER ALL BEAMS OR OTHER SUPPORTING MEMBERS.
- PROVIDE 5/8" APA STRUCTURAL 1 RATED PLYWOOD SHEATHING EXTERIOR EXPOSURE FOR SUBFLOORS AND COVER WITH 5/8" TONGUE AND GROOVE, INTERIOR TYPE WITH EXTERIOR GLUE, UNDERLAYMENT GRADE PLYWOOD.

STRUCTURAL GLUE LAMINATED TIMBER

- PROVIDE GLUED LAMINATED TIMBER DESIGNED, FABRICATED, AND INSTALLED ACCORDING TO THE MOST CURRENT COPY OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION "TIMBER CONSTRUCTION MANUAL"
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING ERECTION PLANS, FABRICATED ASSEMBLIES, AND ACCESSORIES. SHOW MEMBER DESIGNATIONS, SIZES AND CONNECTIONS. SUBMIT DESIGN CALCULATIONS PREPARED BY A LICENSED ENGINEER INDICATING STRENGTHS, STABILITY, AND SERVICEABILITY OF MEMBERS AND CONNCTIONS.
- USE ADHESIVES THAT COMPLY WITH AITC-A190.1-1992 AND MEET WET CONDITION OF SERVICE.
- APPLY CLEAR SEALER TO THE ENDS OF MEMBERS RIGHT AFTER TRIMMING. SEAL SURFACES OF MEMBERS WITH PENETRATING SEALER AS APPROVED BY THE ARCHITECT. INDIVIDUALLY WRAP MEMBERS WITH PLASTIC FOR TEMPORARY PROTECTION.
- PROTECT TIMBERS FROM THE EFFECTS OF MOISTURE DURING STORAGE.

ENGINEERED STRUCTURAL WOOD

- PROVIDE LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL) MADE UNDER PROCESSES APPROVED BY THE NATIONAL RESEARCH BOARD. COMPLY WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION "TIMBER CONSTRUCTION MANUAL" FOR THE DESIGN, FABRICATION AND CONSTRUCTION OF ENGINEERED STRUCTURAL WOOD.
- PROVIDE LVL LUMBER HAVING THE FOLLOWING GRADE AND DESIGN VALUES:
GRADE= 1.9E: FLEXURAL STRESS (Fb) = 2,600 PSI: MODULUS OF ELASTICITY (E) = 1,900,000 PSI
SHEAR MODULUS OF ELASTICITY (G) = 118,750 PSI AND HORIZONTAL SHEAR STRESS (Fv) = 290 PSI.
- PROVIDE LVL LUMBER HAVING THE FOLLOWING GRADE AND DESIGN VALUES:
GRADE= 2.0E: FLEXURAL STRESS (Fb) = 2,900 PSI: MODULUS OF ELASTICITY (E) = 2,000,000 PSI
SHEAR MODULUS OF ELASTICITY (G) = 125,000 PSI AND HORIZONTAL SHEAR STRESS (Fv) = 290 PSI.
- NAIL EACH LAYER OF MULTIPLE LVL MEMBERS TOGETHER WITH (3) 16d NAILS PER FOOT.


PREFABRICATED TRUSSES

- DESIGN, FABRICATE, AND INSTALL METAL PLATE-CONNECTED TRUSSES MEETING TRUSS PLATE INSTITUTE TPI 1-1995 AND THE MOST CURRENT COPY OF THE AMERICAN FOREST AND PAPER ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING ERECTION PLAN FABRICATED ASSEMBLIES, AND ACCESSORIES. SHOW MEMBER DESIGNATIONS SIZES AND CONNECTIONS. SUBMIT DESIGN CALCULATIONS PREPARED BY A LICENSED ENGINEER INDICATING STRENGTHS, STABILITY, AND SERVICEABILITY OF MEMBERS AND CONNCTIONS.
- PROVIDE KILN-DRIED LUMBER MEETING OR EXCEEDING THE FOLLOWING DESIGN VALUES:
Fb = 1,400 PSI; Ft = 925 PSI; Fc = 1,500 PSI; AND E = 1,600,000 PSI.
APPLY DESIGN ADJUSTMENT FACTORS ACCORDING TO NDS.
- BRACE ROOF TRUSSES TO PROVIDE STABILITY DURING AND AFTER CONSTRUCTION .

REVISION NOTES

REV #	DATE	ISSUED FOR CONSTRUCTION
U	06-11-10	

P.O. BOX 18 /
130 West Howard Street
Live Oak FL 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
STRUCTURAL CIVIL ENGINEERS Gary J. Gill, PE 51942
Auth. # 9461



NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

GENERAL NOTES

PROJECT NUMBER
PF10-051-S

DRAWN BY
F. VULETICH

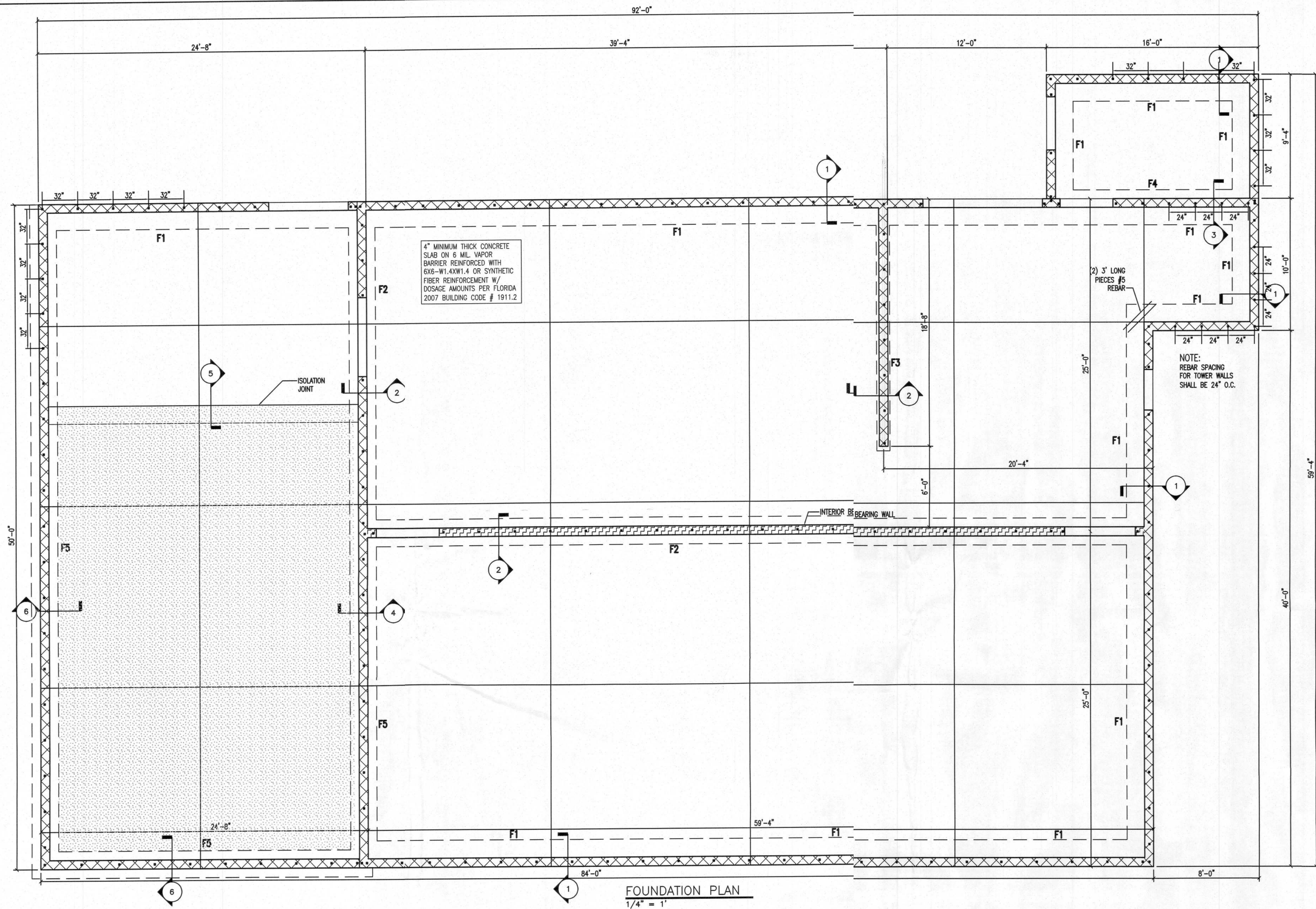
CHECKED BY
G.G.

S-1.0

SHEET 3 OF 13

ISSUED FOR CONSTRUCTION

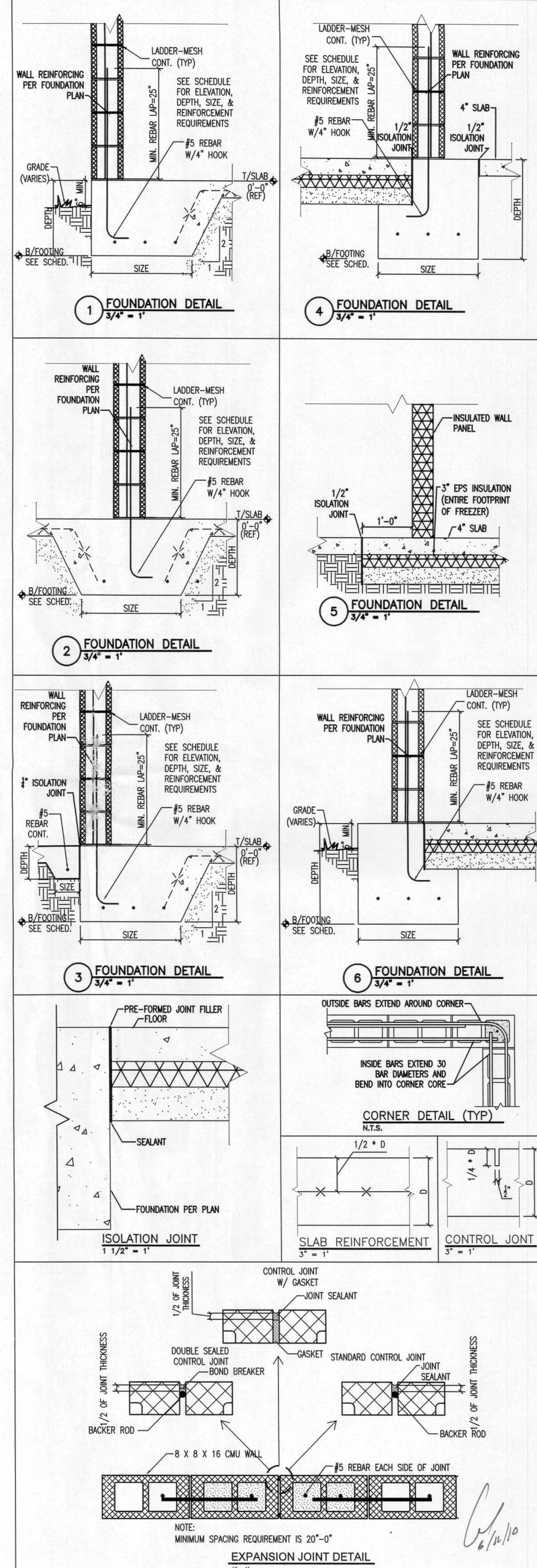
6/14/10



- *SLAB NOTES:**
- ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH.
 - CONTROL JOINTS FOR CONCRETE SLAB SHALL BE SPACED AT 15' O.C. MAXIMUM.
 - IF POWDER ACTIVATED ARE USED TO ANCHOR SILL PLATES THEY SHALL BE SPACED AT 1'-6" MAXUM FOR NON-SHEAR INTERIOR WALLS. IN ADDITION, ONE PIN SHALL BE LOCATED 6" FROM THE END OF EACH SILL PLATE AND ANOTHER 10" FROM THE END OF EACH SILL PLATE.
 - BOTTOM OF ALL FOOTINGS SHALL BE NO LESS THAN 12" BELOW UNDISTURBED GROUND SURFACE.
 - COMBINED AND INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 2,000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 2,000 PSF.
 - THE CLEARED AND/OR CUT SURFACE IN BUILDING CONSTRUCTION AREAS MUST BE PROOF-ROLLED/ING A HEAVY ROLLER -COMPACTOR. ADJUST THE MOISTURE CONTENT OF THE SOIL, AS NECESSARY, TO AID COMPACTION/THE OBJECTIVE IS TO ACHIEVE A MINIMUM 90% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) TO A DEPTH OF AT LEAST 8" BELOW THE COMPACTED SURFACE.
 - AFTER SATISFACTORY PROOF ROLLING OF THE CLEARED AND/OR CUT SURFACES IN ACCORDANCE WITH THE ABOVE, FILLING WITH SUITABLE, WELL COMPACTED SOIL MAY PROCEED. FILL MATERIAL SHOULD BE PLACED IN LEVELLIFTS NOT TO EXCEEDING 8" IN UNCOMPACTED THICKNESS. EACH LIFT SHOULD BE COMPACTED BY REPEATED PASSES WITH THE APPROPRIATE COMPACTION EQUIPMENT, TO ACHIEVE AT LEAST 90% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD. THE FILLING AND COMPACTION OPERATIONS SHOULD CONTINUE UNTIL THE DESIRED ELEVATION IS AIEVED. (10) FILL MATERIALS REQUIRED TO ELEVATE THE SLAB AREA SHOULD CONSIST OF SELECT FILLS, WHICH ARE NIFORMLY GRADED CLEAN SANDS TO SLIGHTLY SILTY OR SLIGHTLY CLAYEY SANDS, FREE OF ORGANICS AND OTHER DELERIOUS MATERIALS, WITH LESS THAN 35% PASSING THROUGH THE NO. 200 SIEVE.
 - CONTRACTOR SHALL VERIFY ALL FOUNDATION DIMENSIONS PRIOR TO CONSTRUCTION. IF A DIMENSIO CONFLICT OCCURS BETWEEN FLOOR PLAN AND THE FOUNDATION PLAN, THE FLOOR PLAN SHALL CONTROL.
 - THE ELEVATION OF THE FLOOR SURFACE ON BOTH SIDES OF ANY DOOR SHALL NOT VARY MORE THAN 1/2" FOR A DISTANCE OF NOT LESS THAN THE WIDTH OF THE WIDEST LEAF.
 - REFER TO SHEET P-1.0 PLUMBING PLAN FOR PLACEMENT OF CONDUITS IN SLAB.

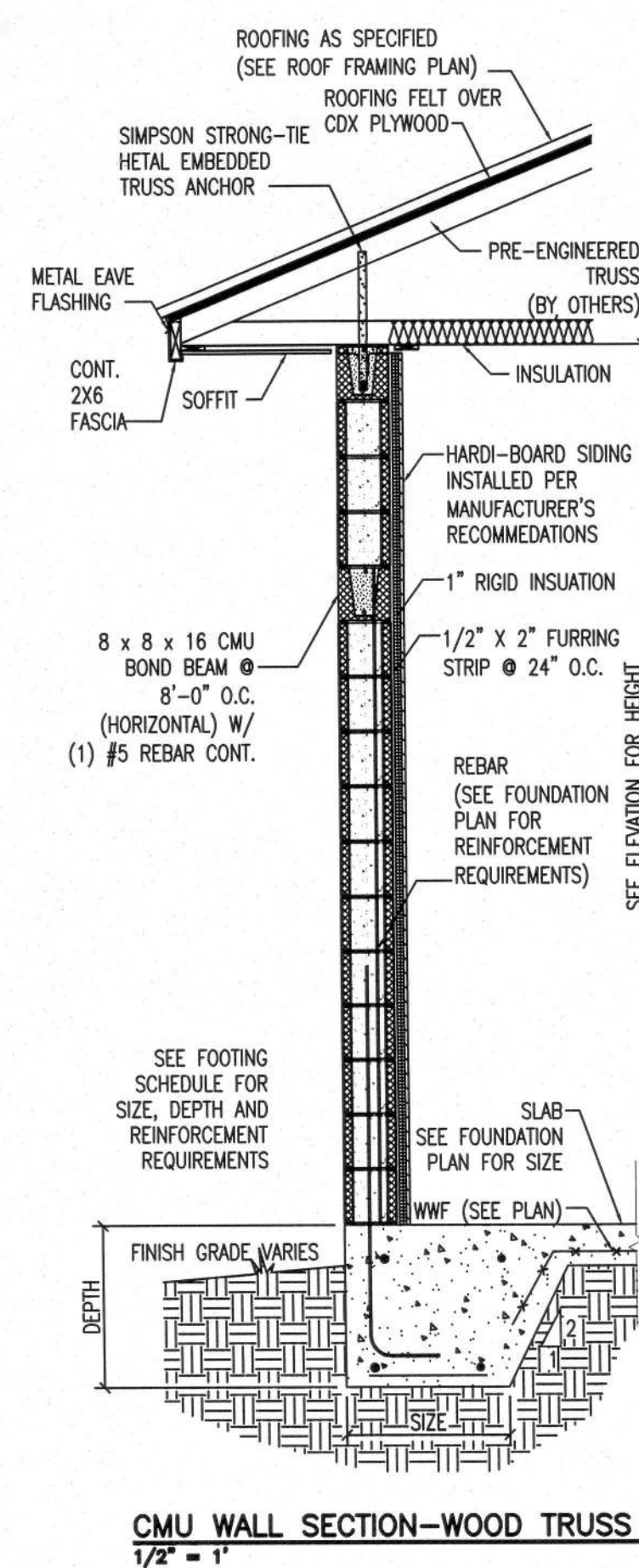
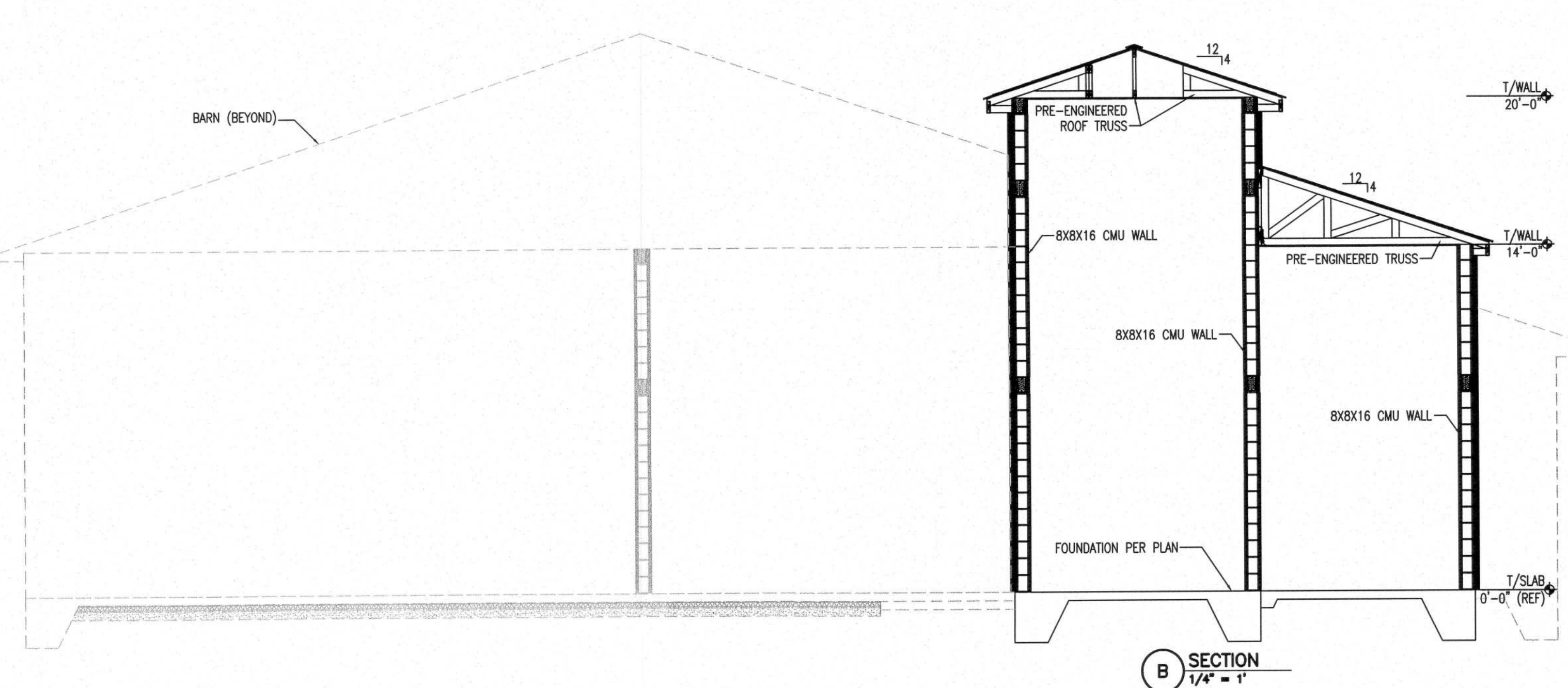
LEGEND	
MARK	DESCRIPTION
■	#5 REBAR
▨	8XB16 CMU WALL

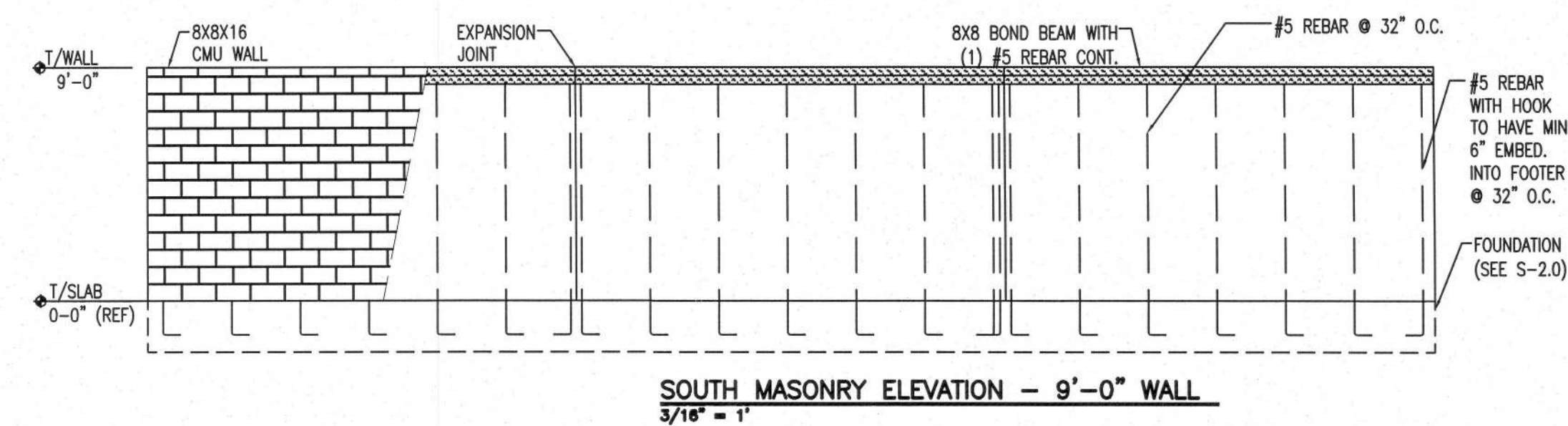
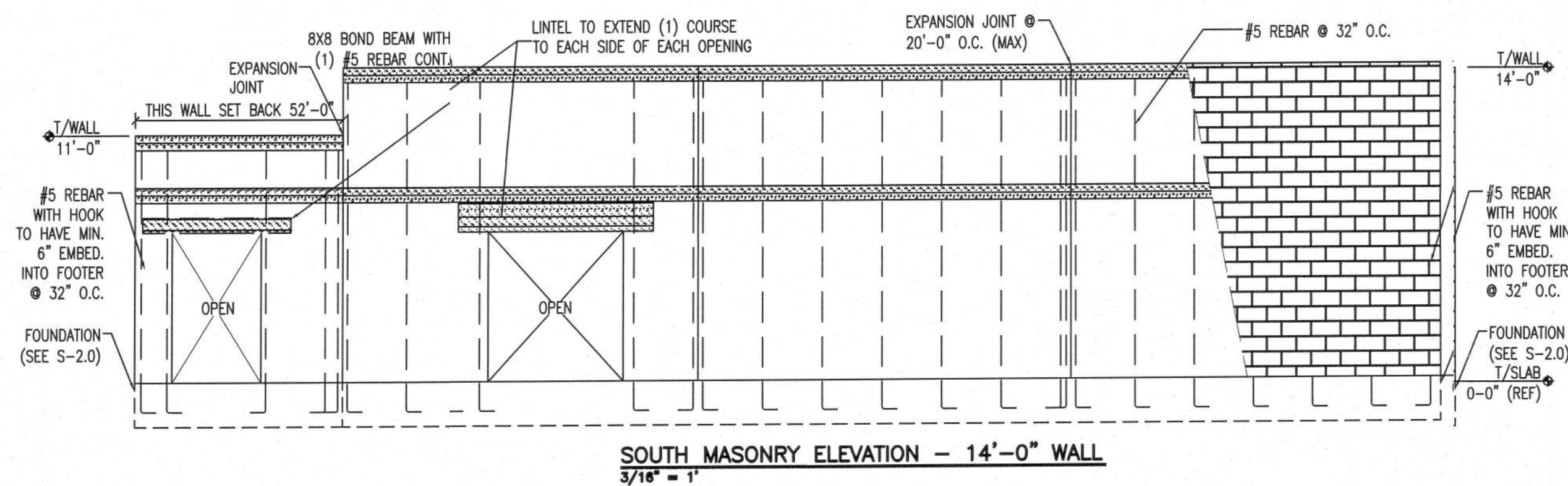
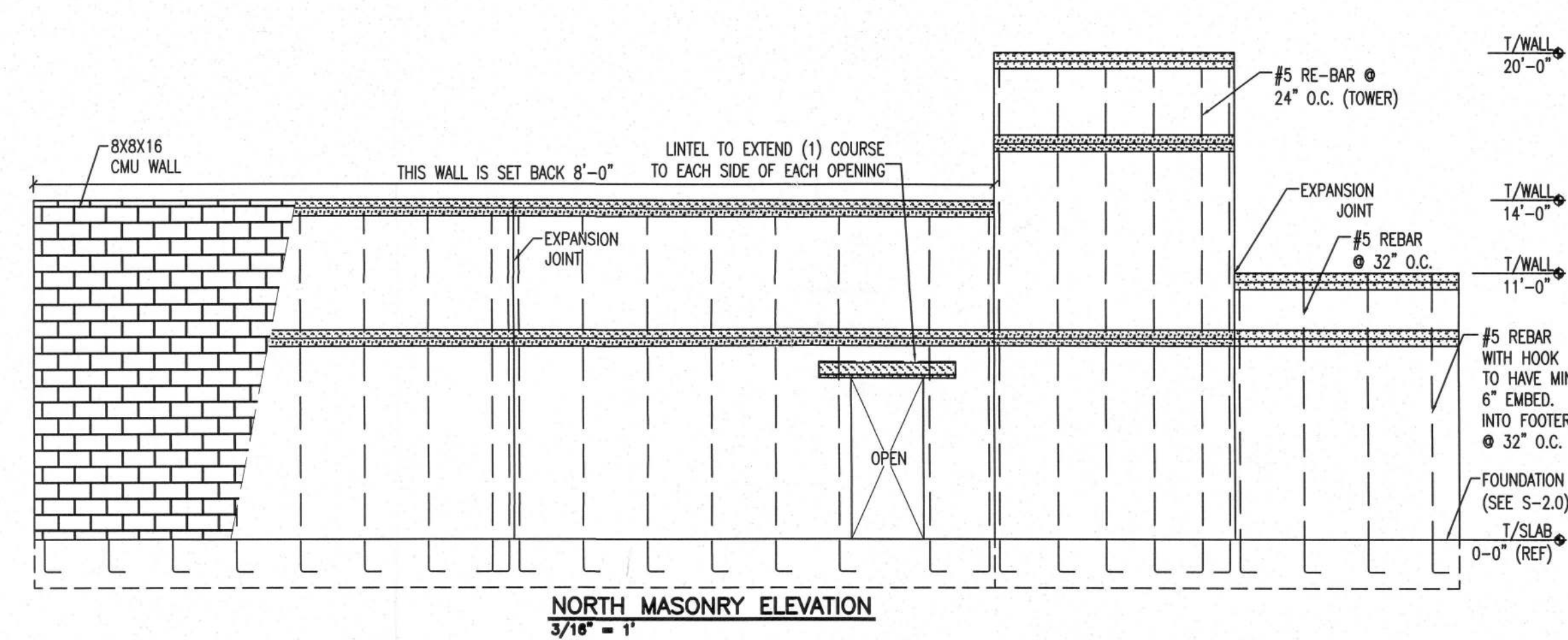
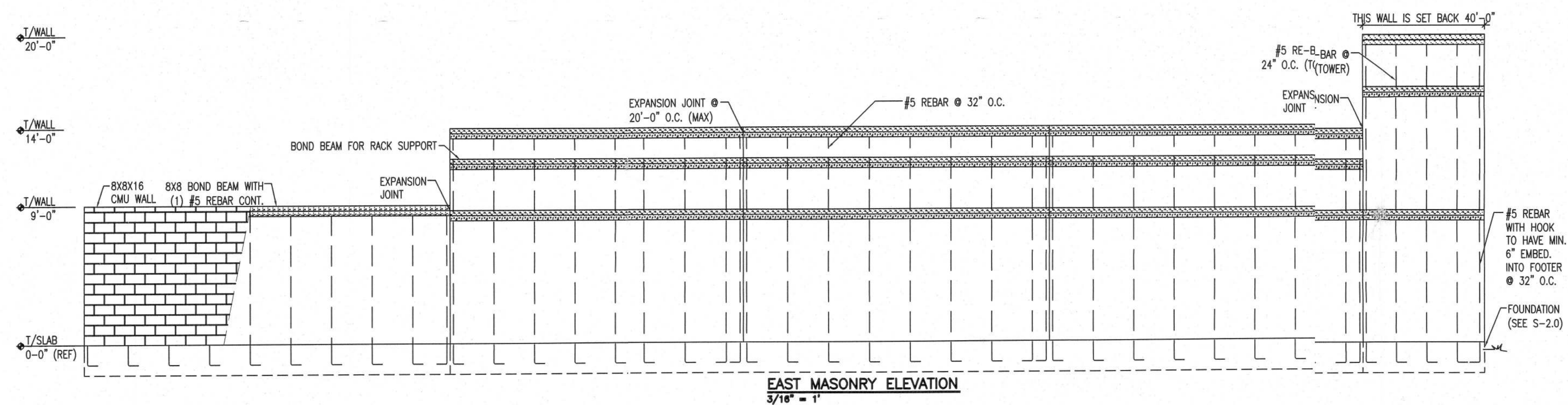
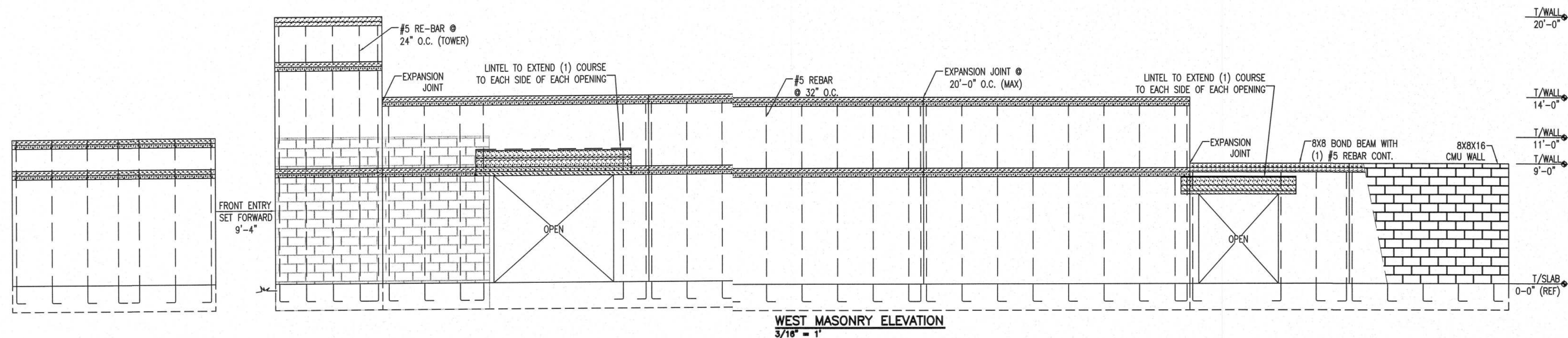
FOOTING SCHEDULE				
FOOTING MARK	FOOTING DIMENSIONS		BOTTOM REBAR	TOP REBAR
	SIZE	DEPTH		
F-1	2'-0" CONT.	2'-0"	(3) #5 CONT.	(1) #5 CONT.
F-2	2'-0" CONT.	2'-0"	(3) #5 CONT.	N/A
F-3	1'-0" CONT.	0'-8"	(3) #5 CONT.	N/A
F-4	0'-8" CONT.	0'-8"	(1) #5 CONT.	N/A
F-5	2'-0" CONT.	2'-0"	(3) #5 CONT.	(1) #5 CONT.



REVISION NOTES		P.O. Box 187 130 West Howard Street Live Oak, FL 32060 Phone: (386) 362-3678 Fax: (386) 362-6133 Auth. # 9461	NETTLE'S SAUSAGE BEEF FACILITY COLUMBIA COUNTY, FLORIDA	FOUNDATION PLAN
REV. #	DATE			
0	06-11-10			
PROJECT NUMBER		PF10-051-S	DRAWN BY	F. VULETICH
CHECKED BY		G.G.		
S-2.0			SHEET 4 OF 13	

ISSUED FOR CONSTRUCTION





ISSUED FOR CONSTRUCTION

REV #	DATE	REVISION NOTES
0	06-11-10	ISSUED FOR CONSTRUCTION

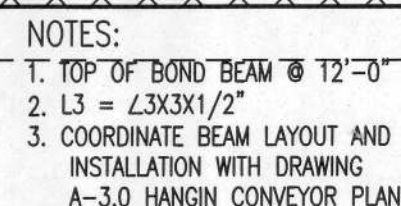
P.O. Box 187
 130 West Howard Street
 Live Oak, FL 32062
 Phone: (386) 362-3678
 Fax: (386) 362-6133
 Gary J. Gill, PE 51942
 Auth. # 9461


NETTLE'S SAUSAGE
 BEEF FACILITY
 COLUMBIA COUNTY, FLORIDA

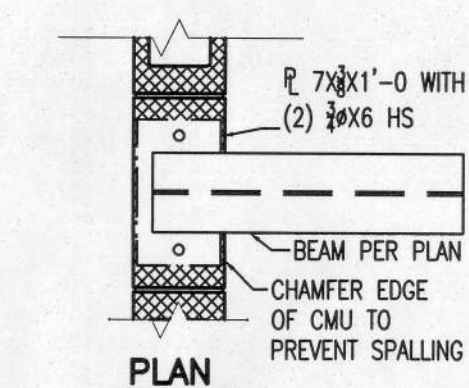
MASONRY ELEVATIONS

PROJECT NUMBER
 PF10-051-S
 DRAWN BY
 F. VULETICH
 CHECKED BY
 G.G.

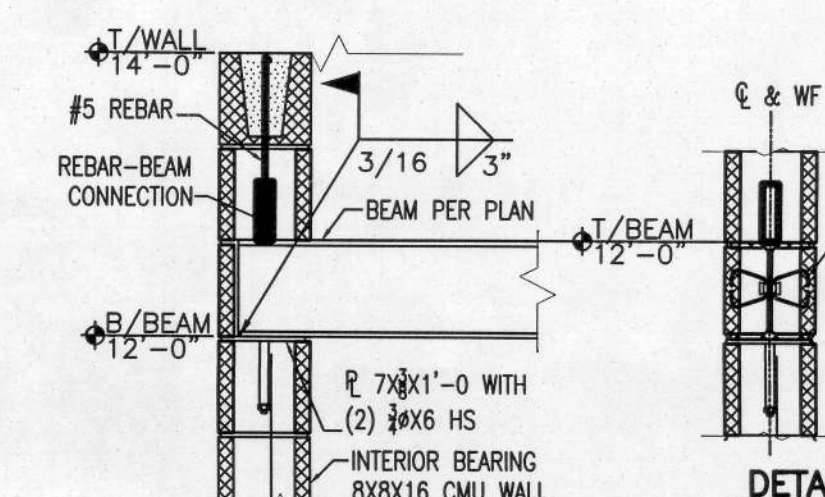
S-5.0





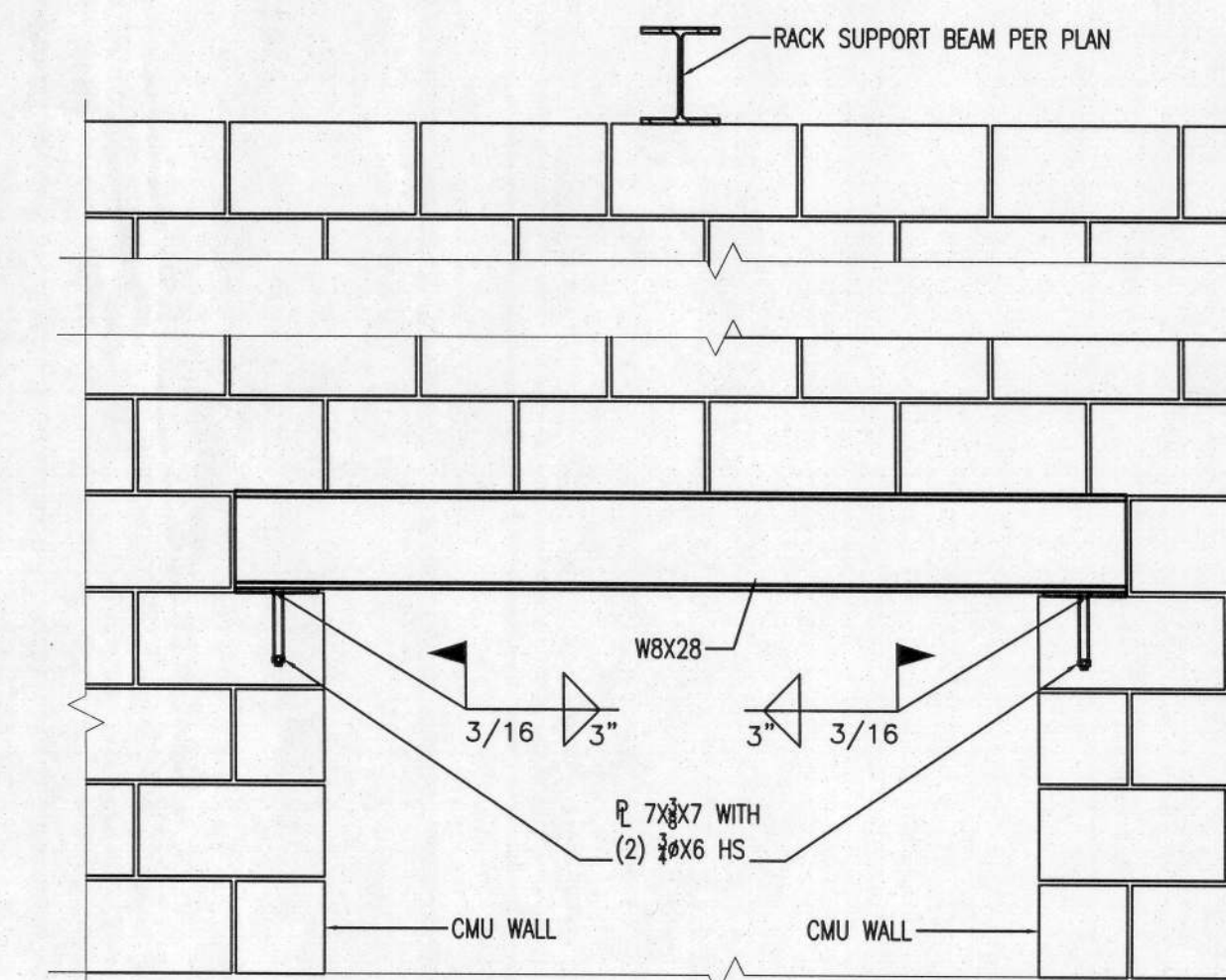


PLA



SECTION

2 SUPPORT BEAM TO CMU
 $\frac{3}{4}'' = 1'$

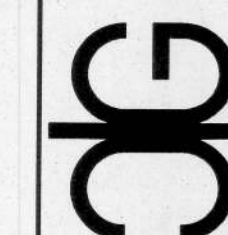


3 INTERIOR BEARING WALL OPENING
 $\frac{3}{4}'' = 1'$

ISSUED FOR CONSTRUCTION

REV #	DATE	REVISION NOTES
0	05-20-10	ISSUED FOR CONSTRUCTION

P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Gary J. Gill, PE 51942
Auth # 9461



COLUMBIA COUNTY, FLORIDA

CONVEYOR BEAM PLAN

PROJECT NUMBER

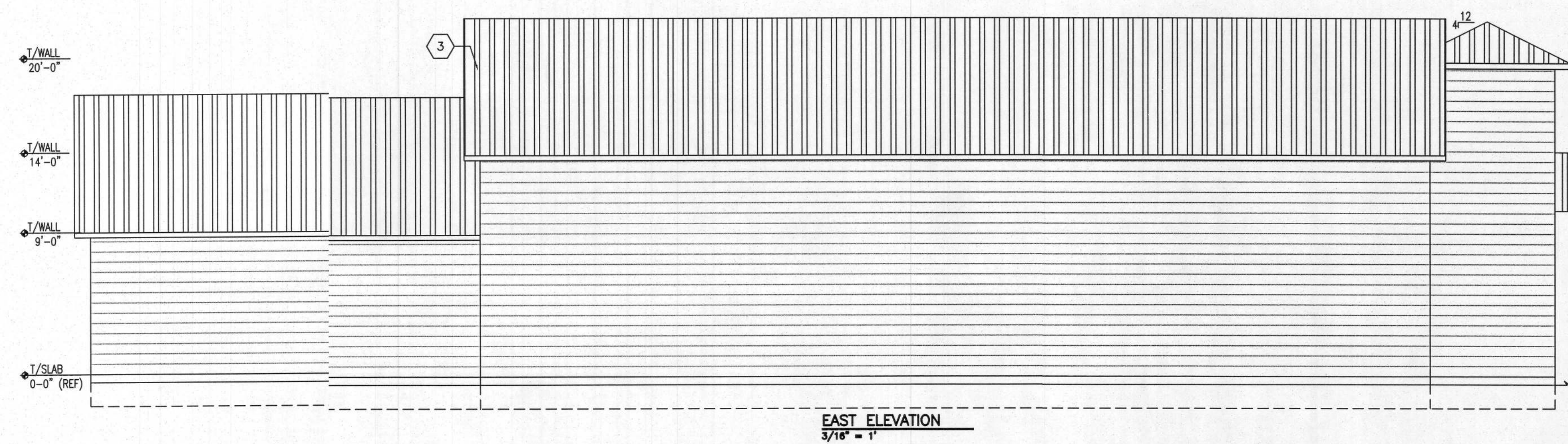
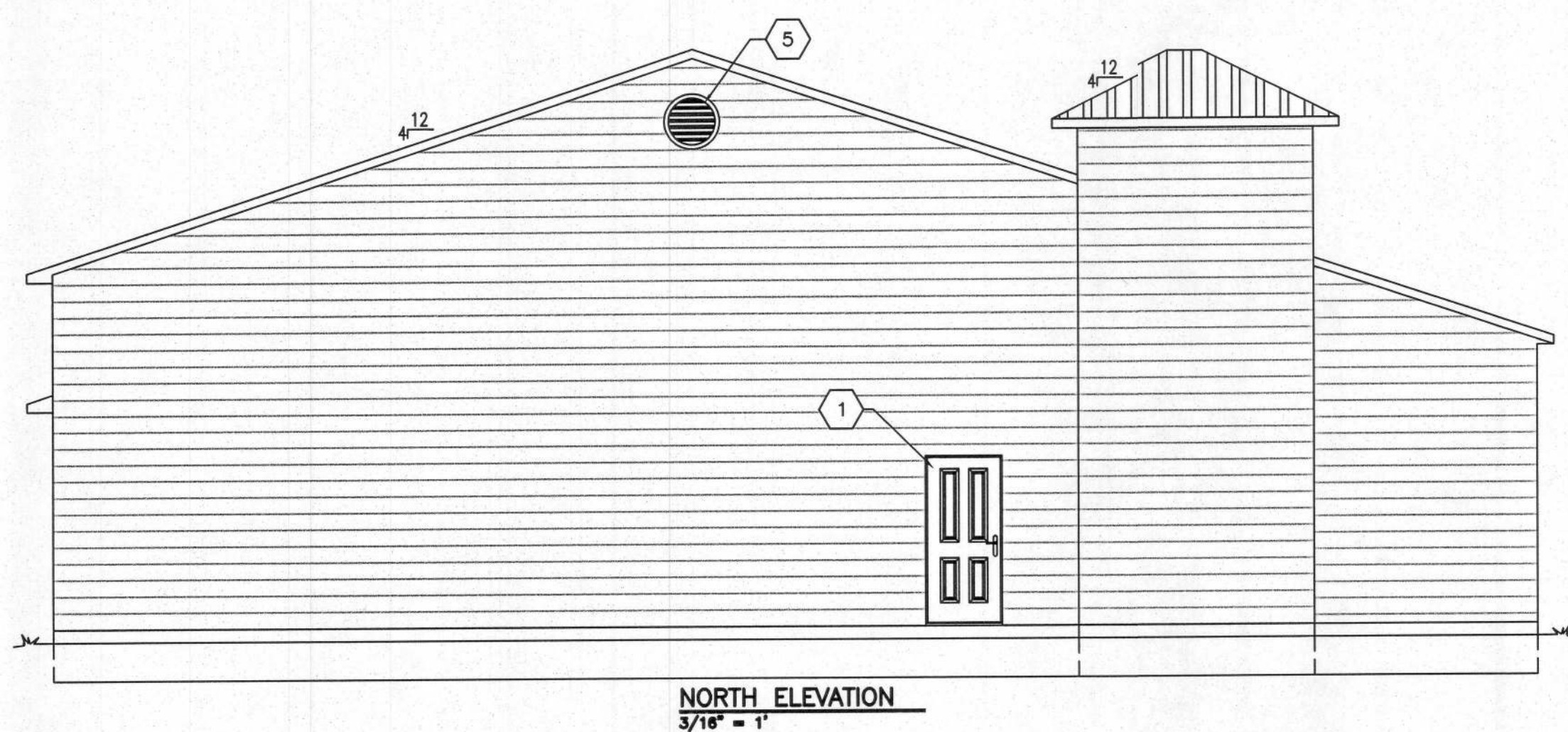
PF10-051-S

DRAWN BY
E. VILLETICH

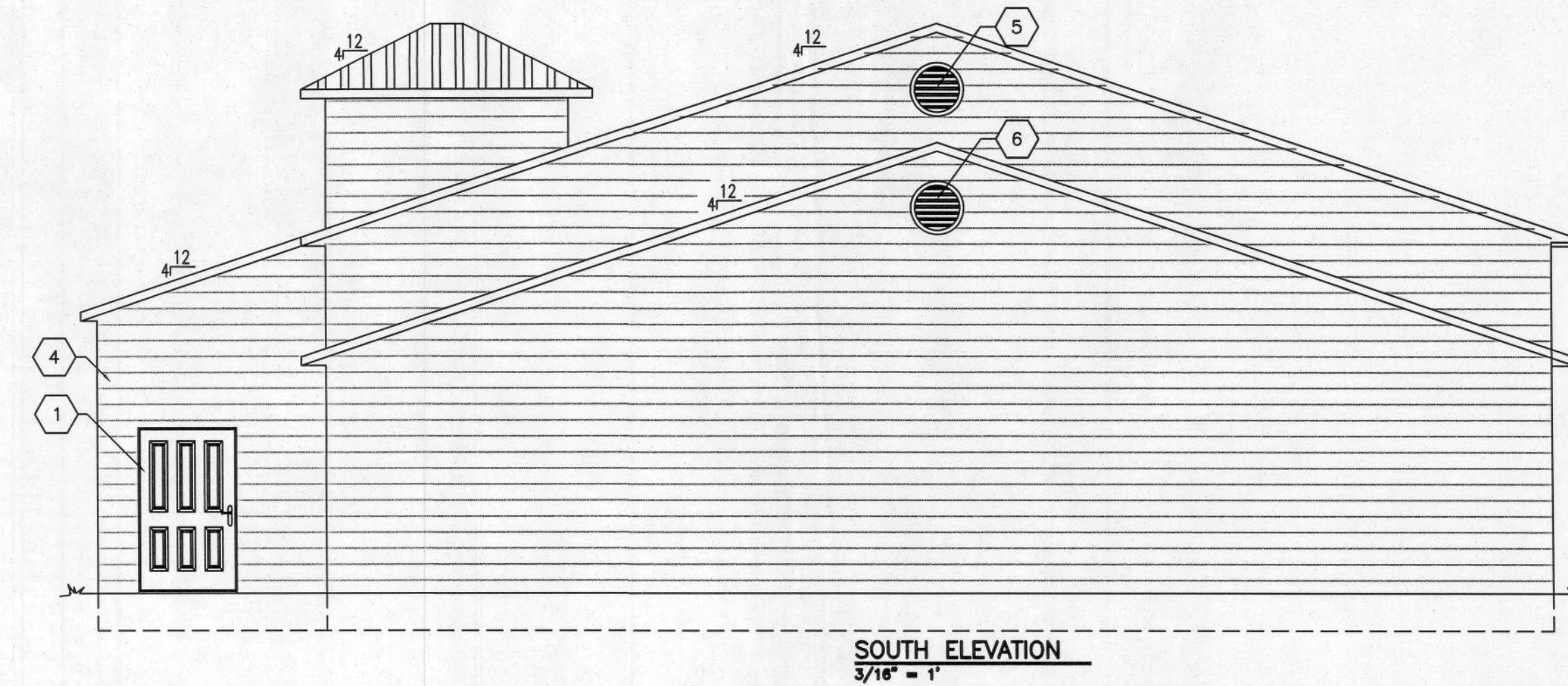
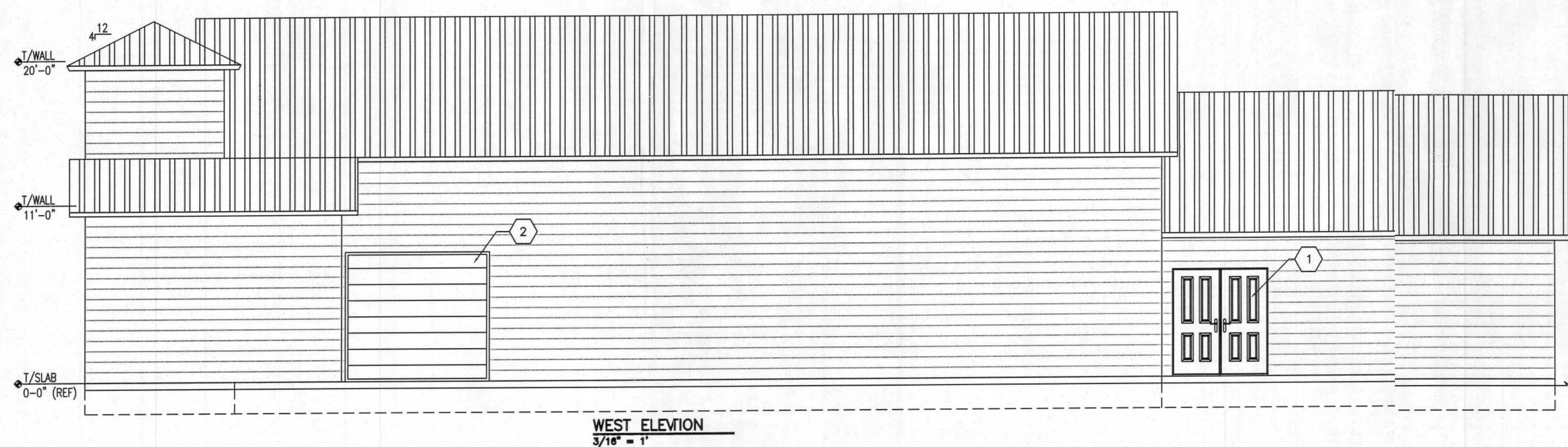
CHECKED BY GG

A-5.0

SHEET 8 OF 13



SHEET KEYNOTES		
1	HOLLOW METAL	EXTERIOR DOOR
2	METAL OVERHEAD	SECTIONAL DOOR
3	5V METAL	ROOFING
4	HARDI-BOARD	SIDING
5	INDUSTRIAL SHUTTER MOUNTED WALL EXHAUST FAN	(1 MIN 1500 CFM)
6	INDUSTRIAL SHUTTER MOUNTED WALL EXHAUST FAN	(1 MIN 1200 CFM)



ISSUED FOR CONSTRUCTION

Signature

REV #	DATE	REVISION NOTES
0	08-11-10	ISSUED FOR CONSTRUCTION

P.O. Box 197
130 West Howard Street
Live Oak, FL 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Auth: # 9461

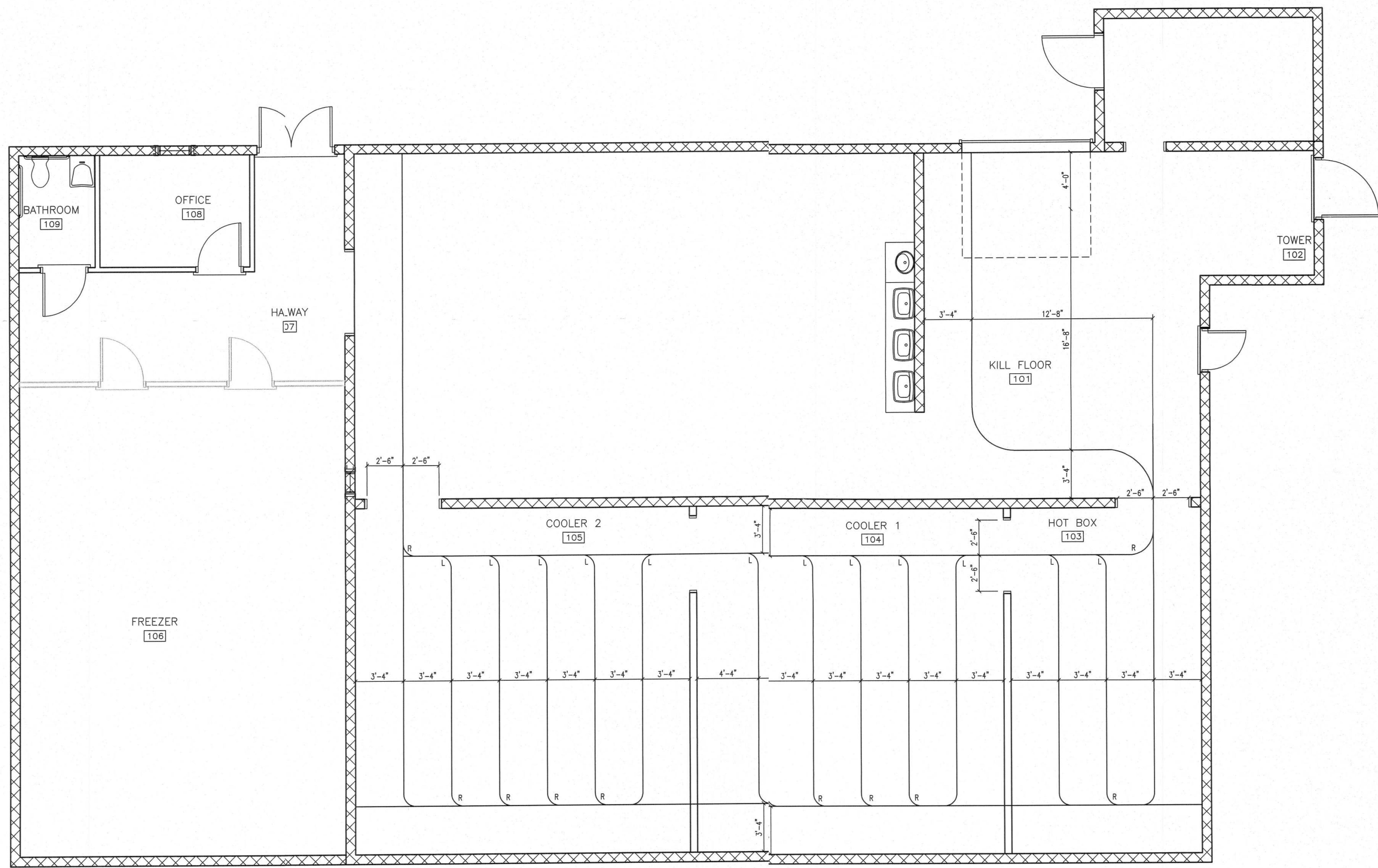


NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

ELEVATIONS

PROJECT NUMBER
PF10-051-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

A-2.0

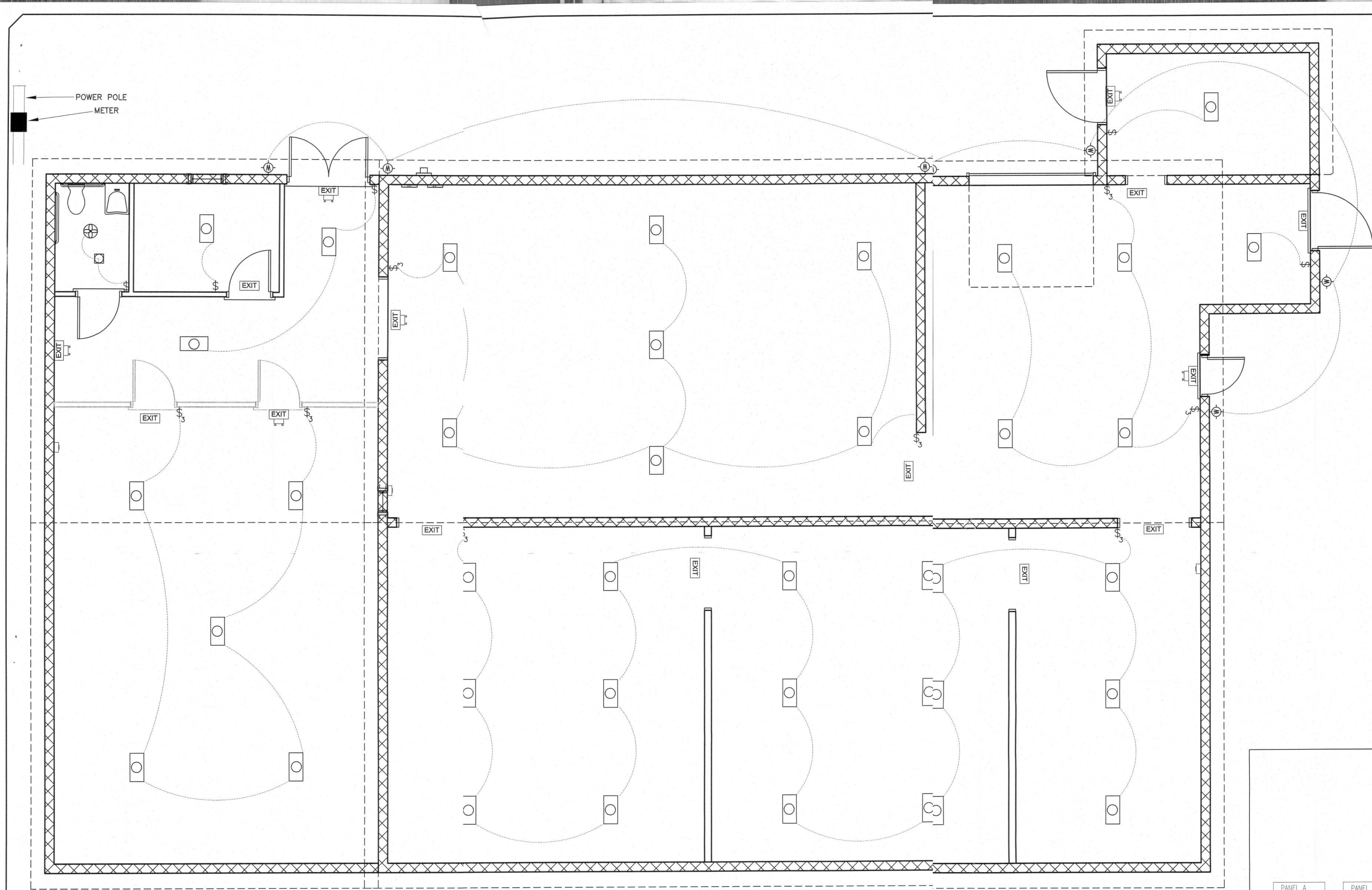


CEILING RACK PLAN
1/4" = 1'-0"

ISSUED FOR CONSTRUCTION

REVISION NOTES 0 06-11-10 ISSUED FOR CONSTRUCTION	
PROJECT NUMBER PF10-051-S	
DAWN BY F. VULETICH	
CHECKED BY G.G.	
A-3.0	
SHEET 11 OF 13	
NETTLE'S SAUSAGE BEEF FACILITY COLUMBIA COUNTY, FLORIDA	
<div style="display: flex; align-items: center;"> <div> P.O. Box 187 130 West Howard Street Live Oak FL 32064 Phone: (386) 362-3678 Fax: (386) 362-6133 Gary J. Gill, PE 51942 Auth. # 9461 </div> </div>	

6/14/10



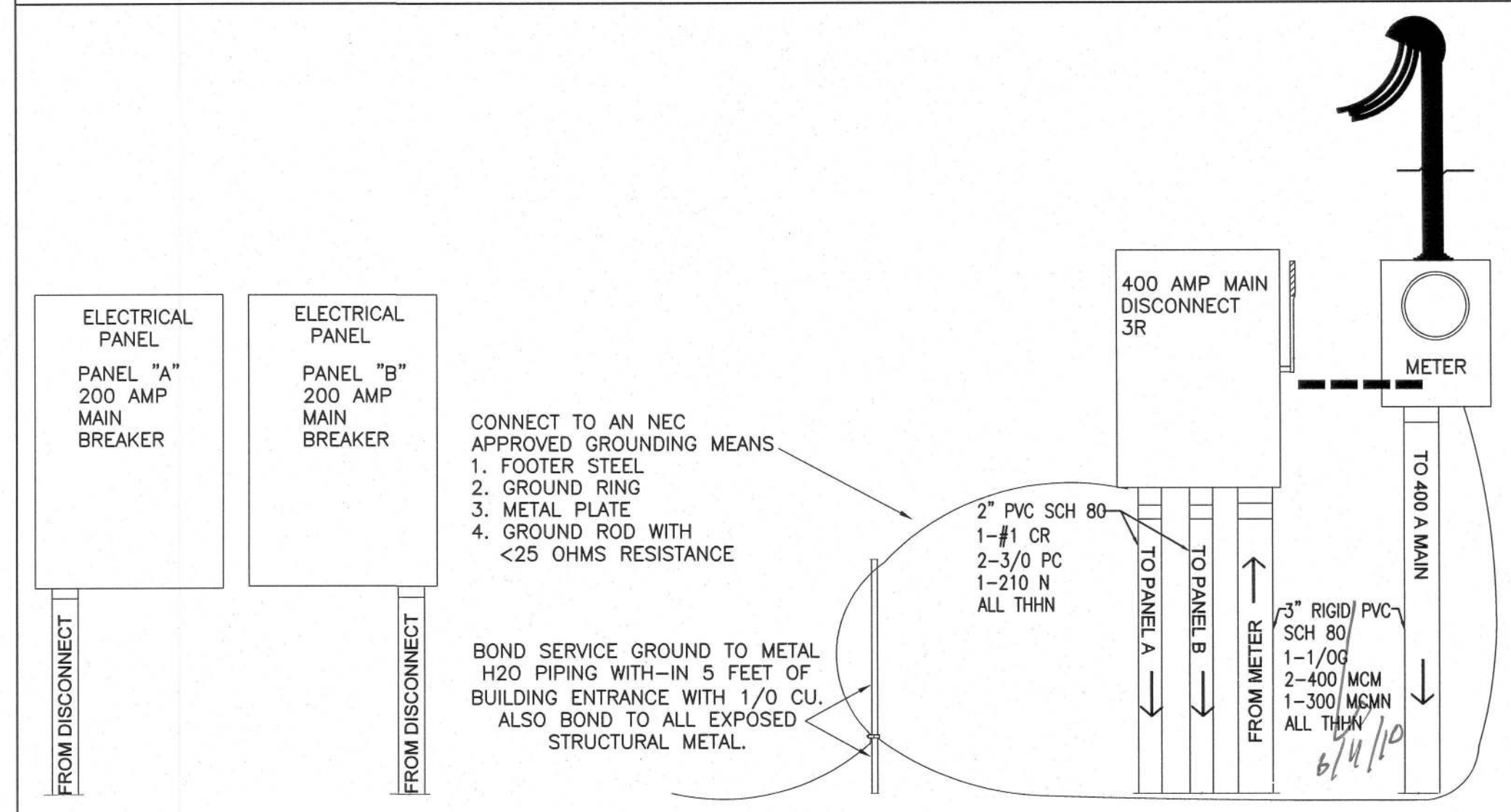
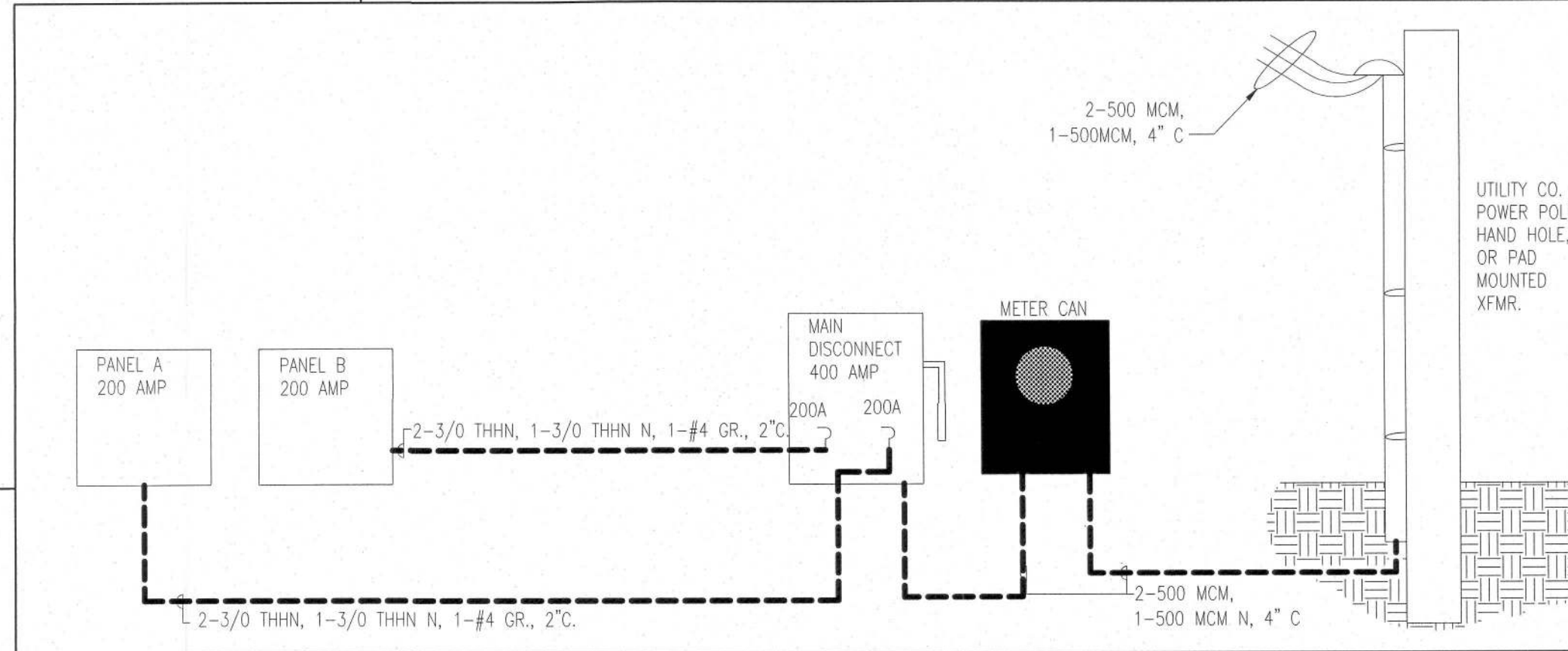
ELECTRICAL PLAN
1/4" = 1'-0"

MAIN PANEL				400 AMPS.	RMS.	SYM.	I.C.	INTEGRATED	EQUIPMENT RATING
208/120 VOLTS, 1 PHASE, 3 WIRE, 200 AMPS									
SERVES	VA	TRIP	WIRE						
PANEL A	1500	200	12	1	2				
				3	4				
				5	6				
				7	8				
				9	10				
				11	12				
				13	14				
				15	16				
				17	18				
				19	20				

PANEL A				200 AMPS.	RMS.	SYM.	I.C.	INTEGRATED	EQUIPMENT RATING
208/120 VOLTS, 1 PHASE, 3 WIRE, 200 AMPS									
SERVES	VA	TRIP	WIRE						
COMPRESSOR 1	1500	20	12	1	2				
COMPRESSOR 2	1500	20	12	3	4				
SPARE	1500	20	12	5	6				
SPARE	1500	20	12	7	8				
				9	10				
				11	12				
				13	14				
				15	16				
				17	18				
				19	20				

PANEL B				200 AMPS.	RMS.	SYM.	I.C.	INTEGRATED	EQUIPMENT RATING
208/120 VOLTS, 1 PHASE, 3 WIRE, 200 AMPS									
SERVES	VA	TRIP	WIRE						
COMPRESSOR 3	1500	30	12	1	2				
COMPRESSOR 3	1500	30	12	3	4				
				5	6				
				7	8				
				9	10				
				11	12				
				13	14				
				15	16				
				17	18				
				19	20				

- ELECTRICAL PLAN NOTES:
- WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS
 - CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED
 - INSTALLATION SHALL BE PER NATIONAL ELECTRIC CODE
 - ALL SMOKE DETECTORS SHALL BE 120V WITH BATTERY BACKUP OF THE PHOTOELECTRIC TYPE AND SHALL BE INTERLOCKED TOGETHER
 - TELEPHONE, TELEVISION, AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS AND IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC-LATEST EDITION
 - ELECTRICAL CONTRACTOR SHALL PREPARE AS-BUILT SHOP DRAWINGS INDICATING ALL ELECTRICAL WORK INCLUDING ANY CHANGES TO THE ELECTRICAL PLAN, ADDITIONS TO THE ELECTRICAL PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE WITH ALL CIRCUITS IDENTIFIED WITH CIRCUIT NUMBER DESCRIPTION, AND BREAKER, SERVICE ENTRANCE AND ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIAGRAM SHALL INCLUDE WIRE SIZES, TYPE AND EQUIPMENT
 - CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DRAWINGS TO THE OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY
 - ALL BATHROOM EXHAUST FANS TO BE MINIMUM 20CFM CONTINUOUS, OR 50 CFM INTERMITTANT



- ELECTRICAL SPECIFICATIONS**
- GENERAL:**
- 1.1 CONTRACTOR SHALL PROVIDE THE FOLLOWING:
- A. LABOR
- B. SUPPLIES
- C. MATERIALS
- D. SHOP DRAWINGS
- E. PERMITS AND INSPECTION FEES
- F. CERTIFICATE OF FINAL INSPECTION AND APPROVAL
- G. ONE YEAR GUARANTEE
- 1.2 CONTRACTOR SHALL PERFORM THE FOLLOWING:
- A. INSTALLATION OF ALL ELECTRICAL EQUIPMENT
- B. COORDINATION WITH OTHER TRADES OF ELECTRICAL EQUIPMENT INSTALLATION
- C. MATERIAL PROTECTION DURING CONSTRUCTION
- D. TEST OF ENTIRE SYSTEM IN PRESENCE OF OWNER OR HIS REPRESENTATIVE AND CORRECT ANY DEFICIENCIES DISCOVERED
- E. COORDINATION OF ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY
- F. COORDINATION OF TELEPHONE SERVICE WITH LOCAL TELECOMMUNICATIONS COMPANY
- 1.3 GOVERNING CODES SHALL BE THE FOLLOWING:
- A. FLORIDA ELECTRICAL CODE 2007 W/2009 REV.
- B. NATIONAL ELECTRICAL CODE (NEC) 2008
- C. UTILITY COMPANY REGULATIONS
- D. AMERICANS WITH DISABILITIES ACT
- E. CURRENT APPLICABLE BUILDING CODES
- F. LOCAL BUILDING CODES AND ORDINANCES
- G. THE NATIONAL MANUFACTURES ASSOCIATION STANDARDS (NEMA)
- H. UNDERWRITER LABORATORIES INCORPORATED STANDARDS (UL)
- I. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
- J. THE MANUFACTURER'S RECOMMENDATION
- 1.4 MATERIALS WILL BE:
- A. NEW
- B. U.L. LISTED
- RACEWAYS**
- 1.1 USE AND TYPE:
- A. SERVICE ENTRANCE - RIGID STEEL
- B. FEEDERS - RIGID STEEL EXCEPT ABOVE 8' - 0" AND INDOOR THAN EMT
- C. BRANCH CIRCUIT, TELEPHONE OR COMMUNICATION - EMT
- D. IN EARTH OR CONCRETE - SCHEDULE 40 PVC
- E. RECESSED LIGHTING FIXTURES - FLEXIBLE STEEL CONDUIT (SHORT BUT MAXIMUM 72")
- F. OUTDOOR FINAL CONNECTION TO EQUIPMENT OR IN WET LOCATIONS - LIQUID - TIGHT FLEXIBLE STEEL CONDUIT (MAXIMUM 36")
- G. ALL RACEWAYS, UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, SHALL BE CONCEALED IN WALLS, CEILINGS OR FLOORS
- H. PAINT ALL EXPOSED RACEWAYS COLOR AS DIRECTED BY THE ARCHITECT
- 1.2 CONDUIT BUSHINGS
- A. PROVIDE INSULATED CONDUIT BUSHINGS AT EACH END OF EVERY CONDUIT RUN
- WIRES AND CABLES, 600 VOLT**
- 1.1 COLOR CODING: 240/120V
- 1.2 INSULATION: THIN, THIN, UNLESS ALUMINUM IS SPECIFICALLY SHOWN ON DRAWINGS, WHEN ALUMINUM CONDUCTORS ARE UTILIZED - PROVIDE ANTI-OXIDATION INHIBITING COMPOUND
- 1.4 FIXTURE WIRE, 600 VOLT, 200 DEGREE C. #14 AWG, MINIMUM, STRANDED, TINNED COPPER WITH SILICONE RUBBER INSULATION AND AN OVERALL JACKET OF GLASS BRAID, AND RATED AS NEC TYPE "SF-2"
- WIRES AND CABLES, 600 VOLT CONT.**
- 1.5 TYPE MC OR CABLEING MAY BE UTILIZED FOR BRANCH CIRCUIT WIRING IF ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY
- 1.6 TYPE SE OR L CABLEING MAY BE UTILIZED FOR FEEDERS TO ADJACENT APARTMENT UNITS IF ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY
- 1.7 VOLTAGE DROP SHALL NOT EXCEED 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS
- BOXES**
- 1.1 ATTACH SECURE TO BUILDING CONSTRUCTION OR SUPPORT FOR SAME
- 1.2 MASONRY BOX SHALL BE RACO OR STEEL CITY
- 1.3 EXPOSED BOX SHALL BE CAST TYPE SIMILAR TO GROUND TYPE FS
- 1.4 ALL OTHERS SHALL BE STAMPED STEEL
- 1.5 FLOOR BOXES
- A. PROVIDE EARTH FLOOR BOXES WITH ADJUSTABLE AFTERSETS AND BRASS COVERS. PROVIDE NUMBER OF GANGS AND DEVICES INDICATED ON DRAWINGS
- WIRING DEVICES**
- 1.1 RECEPTACLES (OR AS DIRECTED BY ARCHITECT)
- A. DUPLEX 15 AMP, 125VAC GROUNDED
- B. SINGLE - 5AMP, 125VAC GROUNDED
- C. RECEPTALS ON DEDICATED CIRCUITS SHALL UTILIZE AMP, 125VAC, GROUNDED TYPE
- 1.2 WALL SWITCHES (OR AS DIRECTED BY ARCHITECT)
- A. SINGLE TYPED - 20AMP, 120/277V, SINGLE THROW TYPED, GROUNDED
- B. DOUBLE ROW - 20AMP, 120/277V, SINGLE THROW TYPED, GROUNDED
- C. THREE WAY - 20AMP, 120/277V, SINGLE THROW QUIET TYPED, GROUNDED
- D. FOUR WAY - 20AMP, 120/277V, SINGLE THROW QUIET TYPED, GROUNDED
- WIRING DEVICES CONT.**
- 1.3 COVER PLATES: PROVIDE FINISH AND COLOR DIRECTED BY ARCHITECT
- ELECTRICAL SERVICE**
- 1.1 GENERAL
- A. PROVIDE NEW SERVICE AS SHOWN ON "ONE LINE DIAGRAM"
- OCCUPANCY SENSOR**
- 1.1 IN ORDER TO MEET THE ENERGY CODE THE ENTIRE FACILITY MUST HAVE OCCUPANCY SENSORS. IT IS A REQUIREMENT TO SEND THE FLOOR PLAN TO THE SENSOR MANUFACTURER SO THAT THE CONTROL SYSTEM AND SENSOR COVERAGE MAY BE APPLIED PROPERLY. A SHOP DRAWING MAY BE SENT, FROM THE MANUFACTURER, WITH SENSOR COVERAGE AND WIRING DIAGRAMS.
- PANEL BOARDS**
- 1.1 PANELBOARDS SHALL HAVE, BUT ARE NOT LIMITED TO THE FOLLOWING:
- A. THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- B. GROUND BUS WITH SET SCREW CONNECTION
- C. SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- D. BAKED-ON ENAMEL TRIM
- E. SWITCH RATED BOLT-ON BREAKERS
- F. TYPEWRITTEN DIRECTORY
- G. PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- H. SQUARE D, SIEMENS, OR G.E.
- PANEL BOARDS CONT.**
- D. BAKED-ON ENAMEL TRIM
- E. SWITCH RATED BOLT-ON BREAKERS
- F. TYPEWRITTEN DIRECTORY
- G. PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- H. SQUARE D, SIEMENS, OR G.E.
- GROUNDING**
- 1.1 SERVICE ENTRANCE
- A. SEE DETAIL 1/E-1
- 1.2 FEEDERS AND BRANCH CIRCUITS
- A. PROVIDE A GREEN INSULATED GROUND CONDUCTOR, SIZED PER THE NEC, IN EACH RACEWAY AND WITH ALL CABLEING
- LIGHTING FIXTURES**
- 1.1 COORDINATE FIXTURE TRIMS WITH CEILING IN WHICH IT IS BEING INSTALLED
- 1.2 PROVIDE LOW TEMPERATURE, HIGH EFFICIENCY ELECTRONIC BALLASTS IN FLUORESCENT FIXTURES
- 1.3 PROVIDE THERMAL OVERLOAD PROTECTION IN BOTH FLUORESCENT AND INCANDESCENT FIXTURES
- 1.4 MATCH VOLTAGE OF FIXTURE TO CIRCUIT TO WHICH FIXTURE IS SHOWN CONNECTED
- 1.5 NARRATIVE DESCRIPTION IN LIGHTING FIXTURE SCHEDULE TAKES PRECEDENCE OVER CATALOG NUMBER
- 1.6 ALL RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING SHALL BE PROVIDED WITH GYPSUM WALL BOARD ENCLOSURE, CONSTRUCTED AND INSTALLED PER UL REQUIREMENTS, AROUND THE PORTION OF FIXTURE LOCATED ABOVE SUSPENDED CEILING TO MAINTAIN FIRE RATING CEILING.
- LIGHTING LEGEND**
- | SYMBOL | QUANTITY | DESCRIPTION |
|--------|----------|--|
| ⊕ | 1 | EXHAUST FAN |
| ⊕ | 1 | 400 AMP METER |
| ⊕ | 45 | 4' WRAP 2 LAMP |
| ⊕ | 1 | CEILING MOUNTED LIGHT |
| ⊕ | 5 | WALL MOUNTED LIGHT |
| ⊕ | 1 | 200 AMP PANEL |
| ⊕ | 1 | 400 AMP PANEL |
| EXIT | 6 | EMERGENCY LIGHT EXIT SIGN COMBO (BATTERY BACKUP) |
| EXIT | 10 | LIGHTED EXIT SIGN |
| ⊕ | 3 | OCCUPANT SENSOR |
| ⊕ | 5 | SINGLE POLE SWITCH |
| ⊕ | 8 | 3 WAY SWITCH |

NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

PROJECT NUMBER
PF10-051-S

DRAWN BY
F. VULETICH

CHECKED BY
G.G.

E-1.0

SHEET 12 OF 13

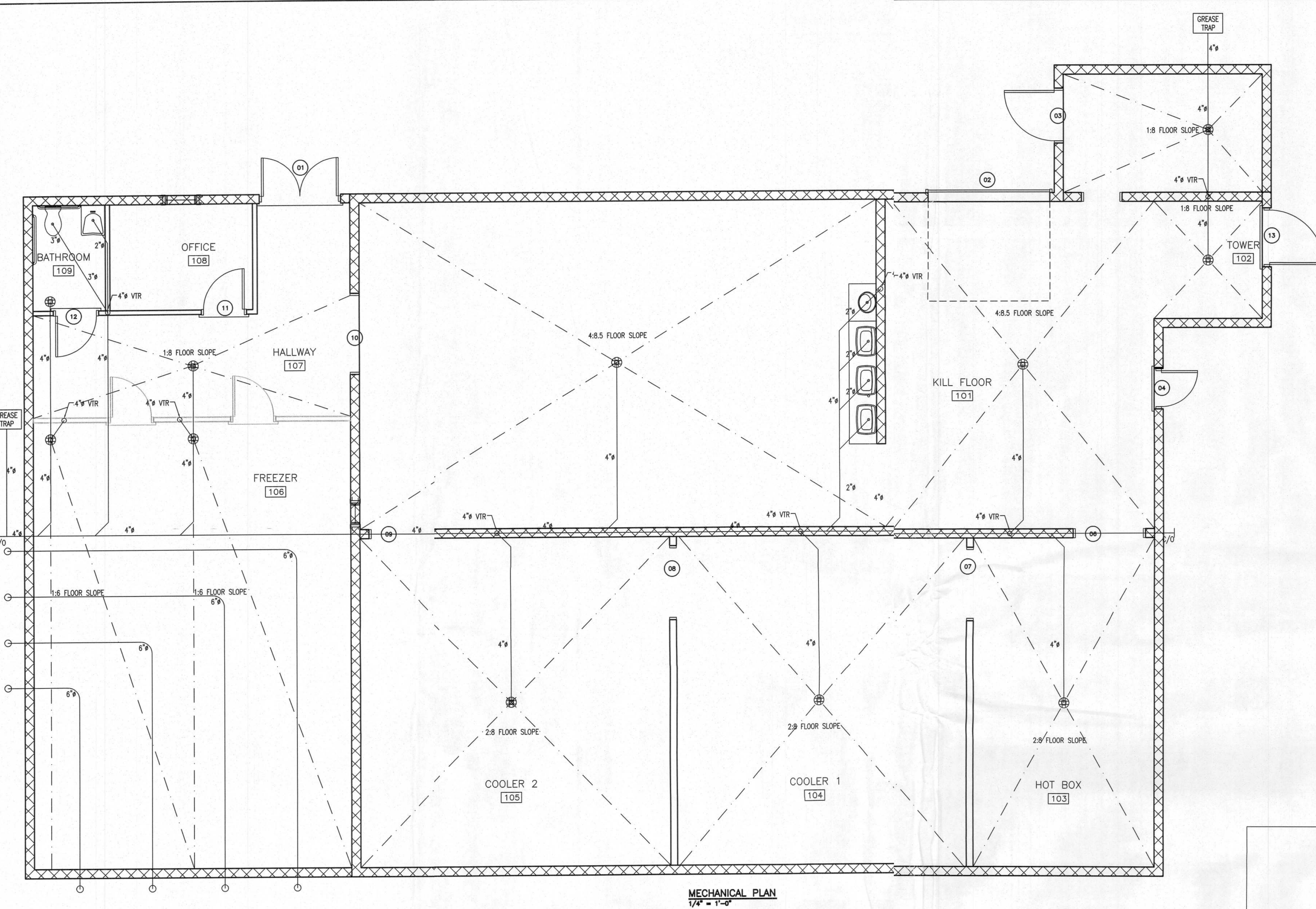
REVISION NOTES
ISSUED FOR CONSTRUCTION

DATE
06-11-10

REV #
0

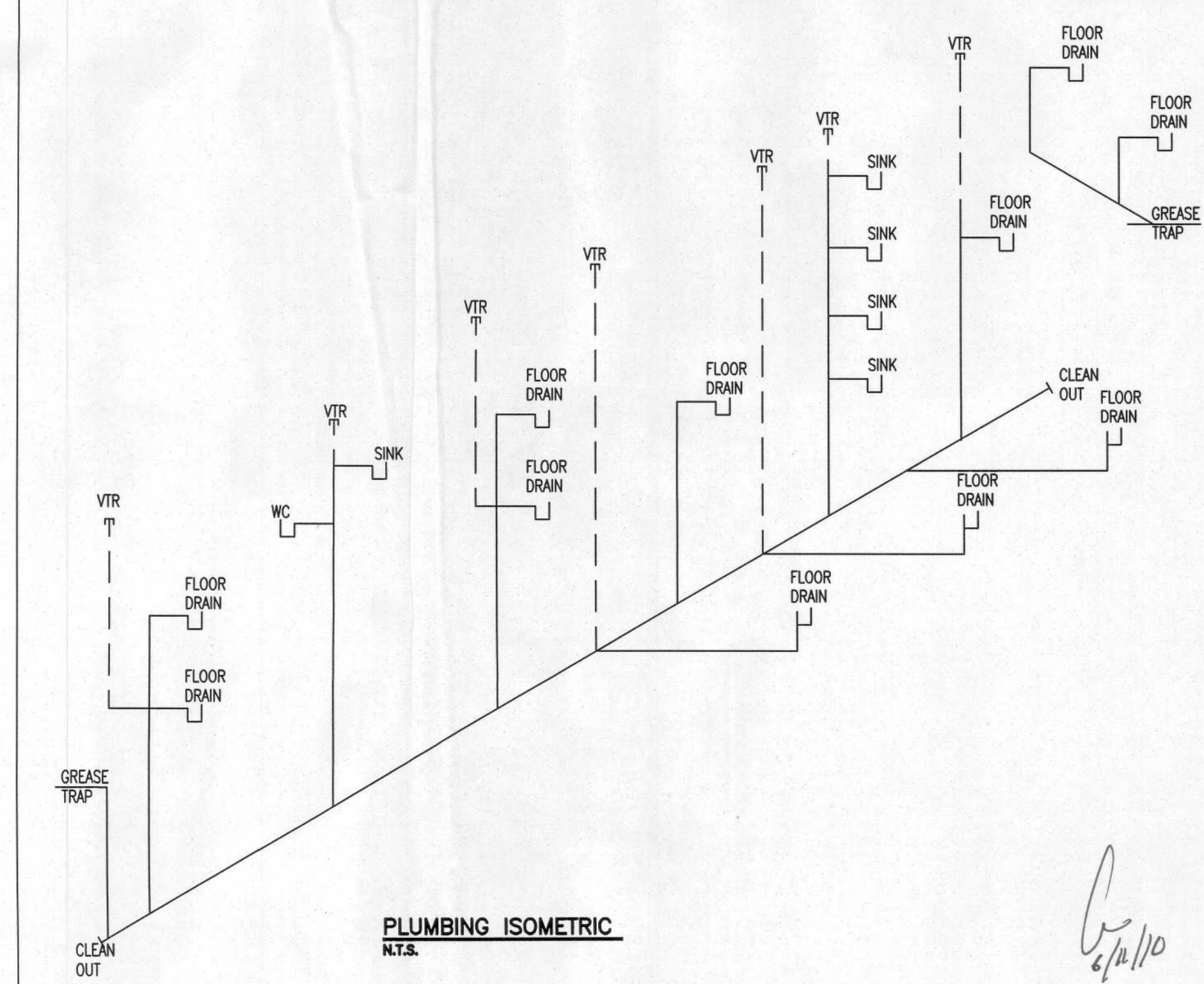
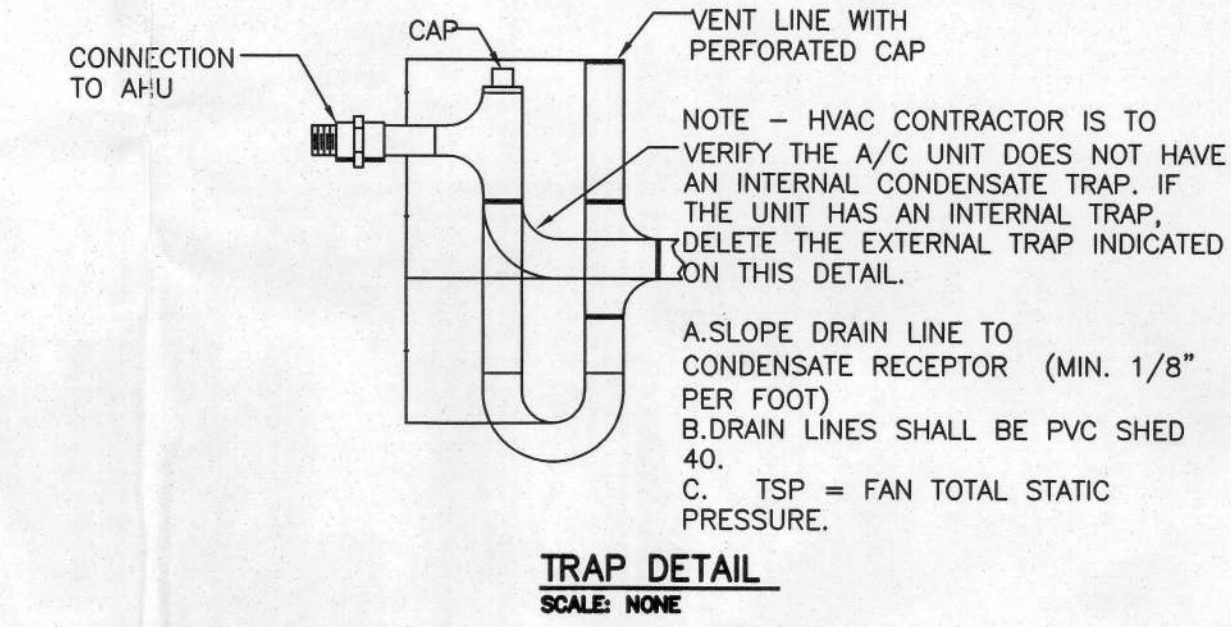
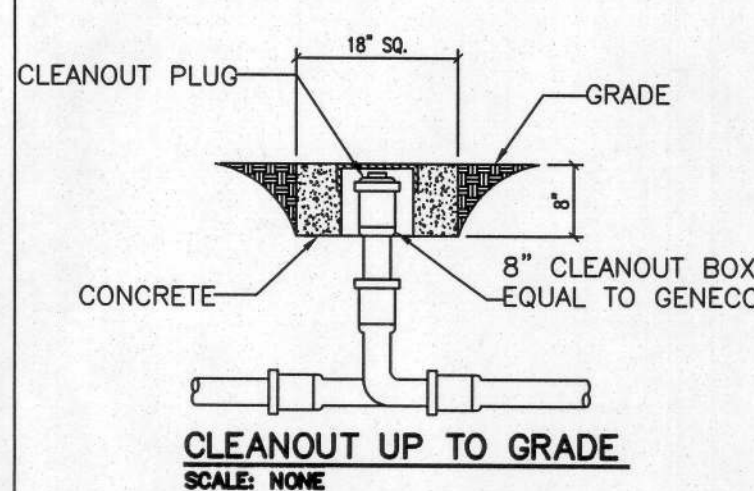
P.O. Box 187
130 West Howard Street
Live Oak FL 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Gay J. Gill, PE 51942
Auth. # 9461

STRUCTURAL CIVIL ENGINEERS



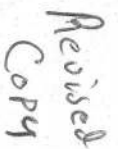
GENERAL PLUMBING NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC.. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.
2. ALL WORK AND MATERIAL SHALL COMPLY WITH THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
3. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. ALL MATERIAL SHALL BE NEW.
5. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
6. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
7. THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
9. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ON YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGES AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE IN THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
10. VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
11. ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
12. WATER PIPING SHALL BE CPVC.
13. SOIL, WASTE, AND VENT PIPING SHALL BE PVC SCHEDULE 40 DNV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC.
14. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC SCHEDULE 40. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERIOR PIPING. ALL PIPING TO BE INSTALLED PER LOCAL CODE.
15. FURISH AND INSTALL APPROVED AIR CHAMBERSAT EACH PLUMBING FIXTURE AND PDI APPROVED SHACK ARRESTERS ON MAIN LINE AND RISERS.
16. PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM #58890.
17. INSULATE LINES AS FOLLOWS:
a. WATER SUPPLY AND RETURNS: 1" THICK ARMAFLEX
b. CONDENSATE DRAIN: 1/2" THICK ARMAFLEX



REVISION NOTES	ISSUED FOR CONSTRUCTION
	REV #
	DATE
	06-11-10
0	
P.O. Box 187 130 West Howard Street Live Oak, FL 32064 Phone: (386) 362-3678 Fax: (386) 362-6133 Auth: # 9461	
STRUCTURAL ONE ENGINEERS	
NETTLE'S SAUSAGE BEEF FACILITY COLUMBIA COUNTY, FLORIDA	
PLUMBING PLAN	
PROJECT NUMBER PF10-051-S	
DRAWN BY F. VULETICH	
CHECKED BY G.G.	
P-1.0	
SHEET 13 OF 13	

ISSUED FOR CONSTRUCTION



APPLICABLE CODES
2007 FLORIDA BUILDING CODE WITH 2009 REVISIONS
2007 NATIONAL ELECTRIC CODE (NFPA 70) WITH 2009 REVISIONS
2007 FLORIDA PLUMBING CODE WITH 2009 REVISIONS
2007 FLORIDA MECHANICAL CODE WITH 2009 REVISIONS
2007 FLORIDA FIRE PROTECTION CODE WITH 2009 REVISIONS
(INCLUDES 2007 LIFE SAFETY CODE)

CONSTRUCTION DOCUMENTS. THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO YOUR SALES REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

BUILDING CRITERIA	
CONSTRUCTION TYPE: V-B (TABLE 601)	UNPROTECTED-NONSPRINKLED
ALLOWABLE AREA:.....8,500 S.F.	ACTUAL:.....4,342 S.F.
ALLOWABLE STORIES:.....1	ACTUAL:.....1

WIND DESIGN INFORMATION	
WIND SPEED:	110 MPH
CATEGORY:	II
EXPOSURE:	B
INTERNAL PRESSURE:	0.18+/-
CLADDING COMPONENTS	
ZONE 1: 10 S.F.	12.54/-19.92 PSF
ZONE 2: 10 S.F.	12.54/-34.68 PSF
ZONE 3: 10 S.F.	12.54/-51.28 PSF
ZONE 4: 10 S.F.	21.77/-23.61 PSF
ZONE 5: 10 S.F.	21.77/-29.15 PSF

DRAWING INDEX - BUILDING PACKAGE			
SHEET #	SHEET TITLE	REV.	REV. DATE
T-1.0	TITLE SHEET	1	10-07-10
C-1.1.0	SITE PLAN	0	06-11-10
S-1.1.0	GENERAL NOTES	0	06-11-10
S-2.0	FOUNDATION PLAN	0	06-11-10
S-3.0	ROOF FRAMING PLAN	0	06-11-10
S-4.0	SECTIONS	1	10-07-10
S-5.0	MASONRY ELEVATIONS	0	06-11-10
A-5.0	CONCRETE BEAM PLAN	1	10-07-10
A-1.1.0	FLOOR PLAN	1	10-07-10
A-2.0	ELEVATIONS	0	06-11-10
A-3.0	HANGING CONCRETE PLAN	1	10-07-10
P-1.0	ELECTRICAL PLAN	1	10-07-10
P-1.1.0	PLUMBING PLAN	0	06-11-10



P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Gary J. Gill, PE 51942
Auth. # 9461

REV #	DATE	REVISION NOTES
0	06-11-10	ISSUED FOR CONSTRUCTION
1	10-07-10	PER BUILDING DEPARTMENT

NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

TITLE SHEET

T-1.0

DESIGN CRITERIA

DESIGN PER 2007 FLORIDA BUILDING CODE UNLESS OTHERWISE NOTED.

LIVE LOADS:

1. ROOFS AND CANOPIES:	
0 TO 200 SF	16PSF
201 TO 600 SF	14PSF
OVER 600 SF	12PSF
STAIRS	100PSF
FLOORS	50PSF
CORRIDORS	80PSF
LOBBIES	80PSF
BALCONIES	60PSF
PARTITION LOAD (DEAD LOAD)	20PSF
2. THIS BUILDING IS NOT LOCATED IN THE WIND BORNE DEBRIS REGION. IMPACT RESISTANT GLAZING IS NOT REQUIRED.	

STRUCTURAL STEEL

1. MATERIALS SHALL BE AS FOLLOWS:	
W-SHAPES	ASTM 992, Fy=50 KSI
OTHER SHAPES & PLATES	ASTM A36, Fy=36 KSI
HSS SQUARE & RECTANGULAR SHAPES	ASTM A500 GRADE B, Fy= 46 KSI
HSS ROUND SHAPES	ASTM A500 GRADE B, Fy= 42 KSI
STEEL PIPES	ASTM A53 GRADE B, Fy= 35 KSI
WELDING ELECTRODES	AWS A5.1 OR A5.5 SERIES E70
HIGH-STRENGTH BOLTS	.394"Ø ASTM A325
ANCHOR RODS	GRADE 36 ASTM F1554
WELDED STUDS	ASTM A108
DEFORMED BARS	ASTM A496
PAINT & PROTECTION	SSPC PAINT 25
SOIL BEARING (DESIGN MAXIMUM)	1500PSF
2. DESIGN PER MOST CURRENT EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN", UNLESS OTHERWISE NOTED.	
3. PROVIDE STRUCTURAL STEEL HAVING A MINIMUM YIELD STRENGTH OF 36 KSI THAT MEETS ASTM A36 STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL.	
4. SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING ERECTION PLANS, FABRICATED ASSEMBLIES AND ACCESSORIES. SHOW MEMBER DESIGNATIONS, SIZES AND CONNECTIONS.	
5. MAKE CONNECTIONS WITH HIGH STRENGTH A325 BOLTS OR WELDS USING E70 ELECTRODES. DETAIL BOLTED SHEAR CONNECTIONS FOR MAXIMUM END REACTIONS OF MEMBER SUPPORTED AND WELDED JOINTS FOR FULL STRENGTH OF MEMBERS CONNECTED.	
6. WHERE BEAMS BEAR ON WOOD PROVIDE STEEL BEARING PLATES AND ANCHOR BOLTS.	
7. PROVIDE TEMPORARY BRACING TO HOLD STRUCTURAL STEEL SECURELY IN POSITION DURING ERECTION. DO NOT REMOVE BRACING UNTIL PERMANENT BRACING IS INSTALLED.	

CONCRETE

1. ALL CONCRETE DESIGNED PER CURRENT EDITION OF ACI 318	
2. ALL CONCRETE SHALL BE CONTROLLED CONCRETE.	
3. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:	
A. FOUNDATION WALLS, PIERS AND FOOTINGS	3000 PSI
B. SLABS ON GRADE	3000 PSI
C. ALL OTHER CONCRETE	3000 PSI
4. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NOMINAL AIR DRY DENSITY OF 145 PCF.	
5. PROVIDE CONSTRUCTION JOINTS WHERE SHOWN. OMIT NONE AND ADD NONE WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER. SUBMIT DRAWINGS SHOWING ALL PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL PRIOR TO PREPERATION OF AFFECTED REINFORCEMENT SHOP DRAWINGS.	
6. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HRS.	
7. CONCRETE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR ARCHITECT /ENGINEER REVIEW 30 DAYS PRIOR TO PLACEMENT OF CONCRETE.	
8. ALL REINFORCING STEEL ASTM A615 GRADE 60, ALL WELDED WIRE FABRIC ASTM A185	

REINFORCING

ALL BAR REINFORCEMENT SHALL CONFORM TO ASTM 615 GRADE 60
WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL
CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAIL)
A. UNFORMED SURFACES IN CONTACT WITH GROUND
(FOOTING OR WALL BOTTOM)3"
B. SLABS ON GRADE.....2 1/2"
C. FORMED SURFACE IN CONTACT WITH GROUND OR EXPOSED TO WEATHER
(WALLS, PIERS).....2"
D. IN ALL CASES, CLEARANCE NOT LESS THAN DIAMETER OF BARS.
NOTE:MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE + 1/4" FOR
SECTIONS 10" OR LESS AND + 1/2" FOR SECTIONS OVER 10" THICK.
REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS
UNLESS OTHERWISE INDICATED ON DRAWINGS.
WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE
REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR
SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS, AS
DETERMINED BY THE ARCHITECT/ENGINEER. IN NO CASE SHALL
REINFORCEMENT BE LESS THAN MINIMUM PERMITTED BY APPLICABLE CODES.
ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE "MANUAL OF
STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
(ACI-315)
ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE
ARCHITECT/ENGINEER OR OWNER TESTING AGENCY BEFORE CONCRETE IS
PLACED.
WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY
AROUND CORNERS, LAPPED AT NECESSARY SPLICES AND HOOKED AT
DISCONTINUOUS ENDS.
WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6" MINIMUM.
ALL REINFORCING SPLICES SHALL CONFORM TO THE TABLE(S) PROVIDED IN THE
GENERAL NOTES FOR STRENGTH OF CONCRETE BUT IN NO CASE LESS THAN THE
REQUIREMENTS OF THE LATEST EDITION OF ACI-318.
SLABS AND WALLS SHALL NOT BE SLEEVED OR BOXED OUT OR HAVE THEIR
REINFORCING INTERRUPTED EXCEPT AS SPECIFICALLY NOTED ON THE
DRAWINGS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE
DETAILS.
SUBMIT CHECKED SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO
FABRICATION OF REINFORCING. DRAWINGS SHALL SHOW
REINFORCING DETAILS, INCLUDING SIZE AND SPACING OF BARS AND SUPPORT
DETAILS. SHOP DRAWINGS SHALL INDICATE CONSTRUCTION JOINTS, CURBS,
DEPRESSIONS, SLEEVES AND OPENINGS, ETC. WITH ALL ADDITIONAL
REINFORCING REQUIRED.
BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT
WITH EXPOSE SURFACES SHALL BE GALVANIZED AND PLASTIC TIPPED.
SLAB AND WALL REINFORCING LAP SPLICE LENGTHS
IP SPLICE LENGTHS FOR REINFORCING IN 4000 PSI CONCRETE ARE AS FOLLOWS:
BAR SIZE TENSION SPLICE DEVELOPMENT LENGTH
TOP OTHER
3 21 15 13
4 29 20 17
5 35 25 21
6 43 31 25
7 54 39 32
8 71 51 42
IP SPLICE LENGTHS FOR REINFORCING IN 3000 PSI CONCRETE ARE AS FOLLOWS:
BAR SIZE TENSION SPLICE DEVELOPMENT LENGTH
TOP OTHER
3 21 15 13
4 29 20 17
5 35 25 21
6 46 33 27
7 63 45 37
8 82 59 49
DETAILS:
1. LAPPED SPLICE LENGTHS BASED ON ASTM A-615, GADE 60, REBAR
2. REINFORCING BARS ARE CLASSIFIED AS TOP BARS WHEN MORE THAN 12" OF CONCRETE
IS CAST BENEATH RESPECTIVE REINFORCING BAR.
3. COMPRESSION SPLICES PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE
DRAWINGS, DETAILS OR SCHEDULES.
4. TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS AND WALLS UNLESS OTHERWISE
NOTED
5. WHEN LAPPING LARGER BAR WITH SMALLER BAR, LAP LENGTH FOR SMALLER BAR SHALL
GOVERN RESPECTIVE SPLICE.
6. SPLICE CONTINUOUS TOP REINFORCING BARS AT CENTER OF CLEAR SPAN WITH
COMPRESSION SPLICES.
7. SPLICE CONTINUOUS BOTTOM REINFORCING BARS AT CENTER OF SUPPORTING ELEMEN
WITH COMPRESSION SPLICES
8. ALL SPLICE LENGTHS NOTED IN INCHES

FOUNDATIONS

ALL FINISHED EXCAVATIONS AND BEARING GRADES SHALL BE INSPECTED AND APPROVED BY THE OWNERS SOIL TESTING AGENCY BEFORE ANY CONCRETE IS PLACED.	
ALL FOUNDATION WALLS SHALL BE BRACED DURING THE OPERATION OF BACKFILLING AND COMPACTION BRACING SHALL BE LEFT IN POSITION UNTIL PERMANENT RESTRAINTS ARE EFFECTIVE. BACKFILL NO FOUNDATION WALLS UNTIL PERMANENT LATERAL STRUCTURAL SUPPORT SYSTEM IS IN PLACE AND OF ADEQUATE STRENGTH TO WITHSTAND THE APPLIED LATERAL PRESSURES.	
LOCATE ALL EXISTING BELOW GRADE UTILITIES. PROVIDE UTILITIES WITH POSITIVE PROTECTION AGAINST DAMAGE DUE TO SETTLEMENT AND CONSTRUCTION OPERATIONS.	
ALL FOOTING SUBGRADES, AS REQUIRED, AND ALL SLAB SUBGRADES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT BASED ON LABORATORY DESIGNATION ASTM D1557.	
COMBINED AND INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 1,500 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 1,500 PSF.	

FLOOR SLABS

FLOOR SLABS SHALL BE SUPPORTED ON AT LEAST 4" OF RELATIVELY CLEAN GRANULAR MATERIAL SUCH AS SAND, SAND AND GRAVEL, OR CRUSHED STONE. GRANULAR MATERIAL SHALL HAVE 100% PASSING THE 1 1/2" SIEVE AND A MAXIMUM OF 10% PASSING THE NO. 200 SIEVE.	
STRUCTURAL FILL SHALL BE PLACED IN THIN LOOSE LIF'S NOT EXCEEDING 12" IN THICKNESS AND COMPACTED WITH A HEAVY ROLLER. EACH LIFT SHALL BE THOROUGHLY COMPACTED WITH THE LABORATORY ROLLER TO PROVIDE DENSITIES TO AT LEAST 95% OF THE PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). STRUCTURAL FILL SHALL CONSIST OF AN INORGANIC, NON-PLASTIC, GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE 200 MESH SIEVE.	

CMU WALL NOTES

EXTERIOR BEARING WALLS:	
1. CONCRETE MASONRY (DESIGN PER CURRENT EDITION ACI 530)	
COMPRESSIVE STRENGTH	F _m = 1500 PSI
2. PROVIDE (1) #5 VERTICAL BARS FULL HEIGHT OF WALL AT ENDS OF WALLS. PROVIDE #3 HORIZONTAL TIES BETWEEN VERTICAL BARS SPACED AT 16" O.C. PROVIDE REINFORCING BAR POSITIONERS TO PLACE VERTICAL REINFORCEMENT BARS IN THE CENTER OF ALL CMU WALLS UNLESS INDICATED OR SHOWN OTHERWISE ON THE DRAWINGS.	
3. PROVIDE LADDER TYPE 9 GA. (W1.7) SIDE AND CROSS RODS, CONTINUOUS GALVANIZED HORIZONTAL REINFORCEMENT SPACED AT 16" O.C. FOR FULL HEIGHT OF ALL WALLS. PLACE FIRST RUN OF HORIZONTAL REINFORCEMENT ON TOP OF FIRST COURSE OF CMU ABOVE TOP OF FOUNDATIONS. PROVIDE CONTINUITY OF HORIZONTAL REINFORCEMENT AT CORNERS AND WALL INTERSECTIONS BY USING PREFABRICATED "L" AND "T" SECTIONS.	
4. GROUT ALL REINFORCEMENT SOLID IN CMU WITH MIN. F _c = 2000 GROUT. GROUTED MASONRY UNITS SHALL BE FILLED SOLID WITH MIN. 2000 PSI GROUT. GROUT SLUMP 8 TO 10 INCHES.	
5. 16" 6" AND DEEPER BOND BEAMS AND LINTELS MAY BE CONSTRUCTED WITH STANDARD 12" LENTIL BLOCKS FOR THE BOTTOM COURSE AND 12" OPEN END COURSES FOR COURSES ABOVE THE LINTEL COURSE. PRECAST LINTELS SHALL BE REINFORCED WITH (4) #5 AND SHALL HAVE A MIN. OF 8" BEARING EACH END. AN OPENING SHALL BE PROVIDED AT THE END OF THE LINTELS FOR VERTICAL WALL REINFORCEMENT. LINTELS SHALL BE MADE OF F _c = 3500 PSI CONCRETE.	
6. MAKE ALL HORIZONTAL BARS IN BOND BEAMS CONTINUOUS AROUND CORNERS BY THE USE OF CORNER BARS FOR EACH BAR IN BOND BEAMS. CORNER BARS TO A MIN. OF 48 BAR DIAMETERS. WITH BOND BEAM BARS.	
7. SEE THE CMU LINTEL SCHEDULE ON SHEET S-3.0 ROOF FRAMING PLAN FOR CMU LINTEL SIZES AND REINFORCEMENT FOR WALL OPENINGS.	
8. LAP SPLICES FOR ALL REINFORCEMENT IN CMU WALLS SHALL BE A MIN. OF 48 BAR DIAMETERS.	
9. PROVIDE VERTICAL DOWELS FOR ALL CMU WALL VERTICAL REINFORCING BARS TO THE FOUNDATIONS. DOWEL BARS TO MATCH SIZE OF CMU VERTICAL BARS AND TO BE LAPPED A MIN. OF 48 BAR DIAMETERS.	

SUPPLEMENTARY NOTES

1. ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE, UON. OTHER MANUFACTURERS MAY BE SUBSTITUTED. SCREW SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG. ROOF TRUSS CLIPS SHALL BE SELECTED TO PROVIDE THE UPLIFT RESISTANCE SHOWN ON THE ROOF TRUSS SHOP DRAWINGS.	
2. TRUSS ENGINEER MAY PROVIDE ALTERNATE CONNECTIONS.	
3. PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.	
4. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.	
5. EMBEDMENT FOR EXPANSION BOLTS SHALL BE 3 1/4"Ø MINIMUM FOR 3/4" BOLTS IN CONCRETE, 5 1/4" IN GROUTED MASONRY. HILTI KWIK BOLT II OR EQUAL. EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY RAWL, HY150 CARTRIDGE SYSTEM BY HILTI. (HILTI RES500, IF HOLE IS CORED INSTEAD OF DRILLED) OR APPROVED EQUAL, UON. EMBEDMENT SHALL BE 12 BAR DIAMETERS MINIMUM, UON. HOLES SHALL BE 1/4" LARGER THAN REBAR SIZE, AND 1/2" LARGER THAN THREADED ROD SIZE. HOLE SHALL BE BRUSHED OUT WITH BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH A FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.	
6. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE OF THE PROJECT. GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT / ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "RUBBED STAMPED" SHALL BE RETURNED WITHOUT REVIEW.	
7. CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.	

TERMITE PROTECTION NOTES:

1. SOIL CHEMICAL BARRIER METHOD:	
A PERMANENT SIGN THAT IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 1042.6	
2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4	
3. IRRIGATION/SPRINKLERS SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 3/8" THICK ADHERED DIRECTLY TO FOUNDATION WALL. FBC 1816.1.1	
4. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1	
5. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2	
6. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC. SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS, PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3	
7. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4	
8. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5	
9. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6	
10. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1916.1.6	
11. ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. FBC 1816.1.6	
12. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7	
13. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 503.1.3	
14. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 3203.1.4	

ROUGH CARPENTRY

GENERAL

1. COMPLY WITH THE MOST CURRENT ADDITION OF THE "AFPA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION MANUAL" AND THE MOST CURRENT ADDITION OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION "TIMBER CONSTRUCTION MANUAL"	
2. PROVIDE NEW LUMBER AND PLYWOOD WITH GRADE WHICH INDICATES SPECIES, MILL NUMBER, MOISTURE CONTENT WHEN SURFACED, AND GRADE RO STRESS RATING STAMPS FROM THE ASSOCIATIONS HAVING JURISDICTION.	
3. FASTEN STUDS AND RAFTERS WITH WIND TIES/CLIPS: JOISTS AND RAFTERS TO SIDE OF BEAMS WITH HANGERS, AND SHEAR WALLS WITH HOLD-DOWNS USING PROPRIETARY STEEL CONNECTORS.	
4. PRESSURE TREAT ALL STRUCTURAL LUMBER IN COMPLIANCE WITH SPECIFICATIONS.	
5. PROVIDE HOT DIPPED GALVANIZED OR STAINLESS STEEL FASTENERS AND HARDWARE CONNECTORS AT PRESSURE TREATED STRUCTURAL LUMBER.	
6. PROVIDE WOOD HARDWARE CONNECTORS AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY INC."	

WALL CONSTRUCTION

1. PROVIDE SOUTHERN PINE GRADE KILN-DRIED STUDS WITH MAXIMUM MOISTURE CONTENT OF 15% AT TIME OF DRESSING.	
2. FRAME INTERIOR WALLS WITH 2"x4" STUDS @ 16" O.C. AND EXTERIOR WALLS WITH 2"x6" @ 16" O.C. FOR HEIGHTS UNDER 10'-0"	
3. PROVIDE SOLID WALL BRIDGING SPACED AT 4'-0" VERTICALLY.	
4. VERTICALLY ALIGN STUDS AND OPENINGS IN BEARING WALLS UNLESS SPECIAL FRAMING IS PROVIDED.	
5. FORM CORNERS WITH A MINIMUM OF 3 STUDS SPIKED TOGETHER.	
6. PROVIDE SINGLE BOTTOM SHOE AND DOUBLE TOP PLATE IN ALL BEARING WALLS. OFFSET TOP PLATES A MINIMUM OF 4'-0". TIE SHOE AND TOP PLATE BUTT JOINTS TOGETHER WITH METAL PLATES. ANCHOR SILLS WITH 5/8"Ø BOLTS EMBEDDED 8" AND SPACED NO MORE THAN 4'-0" APART AND LOCATED AT CORNERS AND 12" FROM OPENINGS AND ENDS OF WALLS.	
7. FABRICATE BUTT-UP POSTS AS FOLLOWS:	
A. (2) 2"x4"S FASTENED WITH ONE ROW OF STAGGERED 10d NAILS @6"	
B. (3) 2"x4"S FASTENED WITH ONE ROW OF STAGGERED 30d NAILS @ 8"	
C. (3) 2"x6"S FASTENED WITH TWO ROWS OF 30d NAILS	

FLOOR AND ROOF CONSTRUCTION

1. PROVIDE SOUTHERN PINE NO. 2 OR BETTER LUMBER FOR JOISTS AND RAFTERS SURFACED DRY WITH MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF DRESSING.	
2. LOCATE JOISTS AND RAFTERS DIRECTLY OVER WALL STUDS.	
3. PROVIDE DOUBLE JOIST UNDER WALL PARALLEL TO JOISTS.	
4. NOTCHES IN JOISTS SHALL NOT EXCEED 1/6 OF THE JOIST DEPTH AND SHALL NOT BE IN THE MIDDLE THIRD OF THE SPAN. BORED HOLES SHALL NOT BE WITHIN 2" OF JOIST EDGES AND SHALL NOT EXCEED 1/3 OF THE DEPTH OF THE JOIST.	
5. INSTALL ONE LINE OF 1"x3" CROSS BRIDGING FOR EACH 8'-0" OF FLOOR FRAMING. INSTALL 2" SOLID BLOCKING BETWEEN JOISTS OVER ALL BEAMS OR OTHER SUPPORTING MEMBERS.	
6. PROVIDE 5/8" APA STRUCTURAL 1 RATED PLYWOOD SHEATHING EXTERIOR EXPOSURE FOR SUBFLOORS AND COVER WITH 5/8" TONGUE AND GROOVE, INTERIOR TYPE WITH EXTERIOR GLUE, UNDERLAYMENT GRADE PLYWOOD.	

STRUCTURAL GLUE LAMINATED TIMBER

1. PROVIDE GLUED LAMINATED TIMBER DESIGNED, FABRICATED, AND INSTALLED ACCORDING TO THE MOST CURRENT COPY OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION "TIMBER CONSTRUCTION MANUAL"	
2. SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING ERECTION PLANS, FABRICATED ASSEMBLIES, AND ACCESSORIES. SHOW MEMBER DESIGNATIONS, SIZES AND CONNECTIONS. SUBMIT DESIGN CALCULATIONS PREPARED BY A LICENSED ENGINEER INDICATING STRENGTHS, STABILITY, AND SERVICEABILITY OF MEMBERS AND CONNECTIONS.	
3. USE ADHESIVES THAT COMPLY WITH AITC-A190.1-1992 AND MEET WET CONDITION OF SERVICE.	
4. APPLY CLEAR SEALER TO THE ENDS OF MEMBERS RIGHT AFTER TRIMMING. SEAL SURFACES OF MEMBERS WITH PENETRATING SEALER AS APPROVED BY THE ARCHITECT. INDIVIDUALLY WRAP MEMBERS WITH PLASTIC FOR TEMPORARY PROTECTION.	
5. PROTECT TIMBERS FROM THE EFFECTS OF MOISTURE DURING STORAGE.	

ENGINEERED STRUCTURAL WOOD

1. PROVIDE LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL) MADE UNDER PROCESSES APPROVED BY THE NATIONAL RESEARCH BOARD. COMPLY WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION "TIMBER CONSTRUCTION MANUAL" FOR THE DESIGN, FABRICATION AND CONSTRUCTION OF ENGINEERED STRUCTURAL WOOD.	
2. PROVIDE LVL LUMBER HAVING THE FOLLOWING GRADE AND DESIGN VALUES:	
GRADE= 1.9E: FLEXURAL STRESS (Fb) = 2,600 PSI; MODULUS OF ELASTICITY (E) = 1,900,000 PSI; SHEAR MODULUS OF ELASTICITY (G) = 118,750 PSI AND HORIZONTAL SHEAR STRESS (Fv) = 290 PSI.	
3. PROVIDE LVL LUMBER HAVING THE FOLLOWING GRADE AND DESIGN VALUES:	
GRADE= 2.0E: FLEXURAL STRESS (Fb) = 2,900 PSI; MODULUS OF ELASTICITY (E) = 2,000,000 PSI; SHEAR MODULUS OF ELASTICITY (G) = 125,000 PSI AND HORIZONTAL SHEAR STRESS (Fv) = 290 PSI.	
4. NAIL EACH LAYER OF MULTIPLE LVL MEMBERS TOGETHER WITH (3) 16d NAILS PER FOOT.	

PREFABRICATED TRUSSES

1. DESIGN, FABRICATE, AND INSTALL METAL PLATE-CONNECTED TRUSSES MEETING TRUSS PLATE INSTITUTE TPI 1-1995 AND THE MOST CURRENT COPY OF THE AMERICAN FOREST AND PAPER ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."	
2. SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING ERECTION PLAN FABRICATED ASSEMBLIES, AND ACCESSORIES. SHOW MEMBER DESIGNATIONS SIZES AND CONNECTIONS. SUBMIT DESIGN CALCULATIONS PREPARED BY A LICENSED ENGINEER INDICATING STRENGTHS, STABILITY, AND SERVICEABILITY OF MEMBERS AND CONNECTIONS.	
3. PROVIDE KILN-DRIED LUMBER MEETING OR EXCEEDING THE FOLLOWING DESIGN VALUES:	
Fb = 1,400 PSI; Ft = 925 PSI; Fc = 1,500 PSI; AND E = 1,600,000 PSI.	
APPLY DESIGN ADJUSTMENT FACTORS ACCORDING TO NDS.	
4. BRACE ROOF TRUSSES TO PROVIDE STABILITY DURING AND AFTER CONSTRUCTION.	

REVISION NOTES

ISSUED FOR CONSTRUCTION

REV # DATE

U 08-11-10

P.O. BOX 187
130 West Highway 306
Live Oak, FL 32060
Phone: (386) 362-3678
Fax: (386) 362-6133
STRUCTURAL CIVIL ENGINEERS Gary J. Gill, P.E. #51942
Auth. # 9461

NETTLE'S SAUSAGE

BEEF FACILITY

COLUMBIA COUNTY, FLORIDA

GENERAL NOTES

PROJECT NUMBER

PF10-051-S

DRAWN BY

VULETICH

CHECKED BY

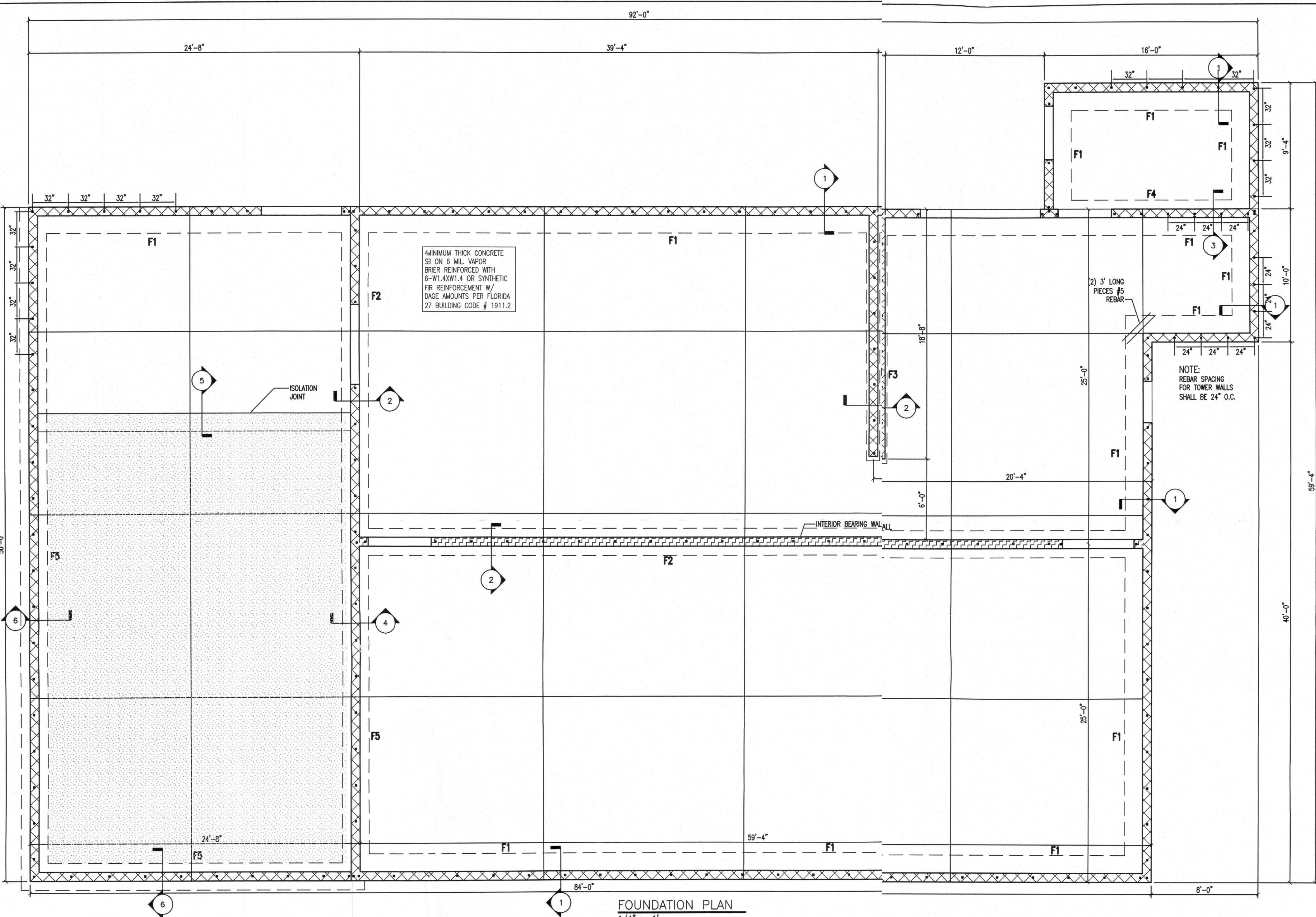
G.G.

S-1.0

SHEET 3 OF 13

ISSUED FOR CONSTRUCTION

10/8/10

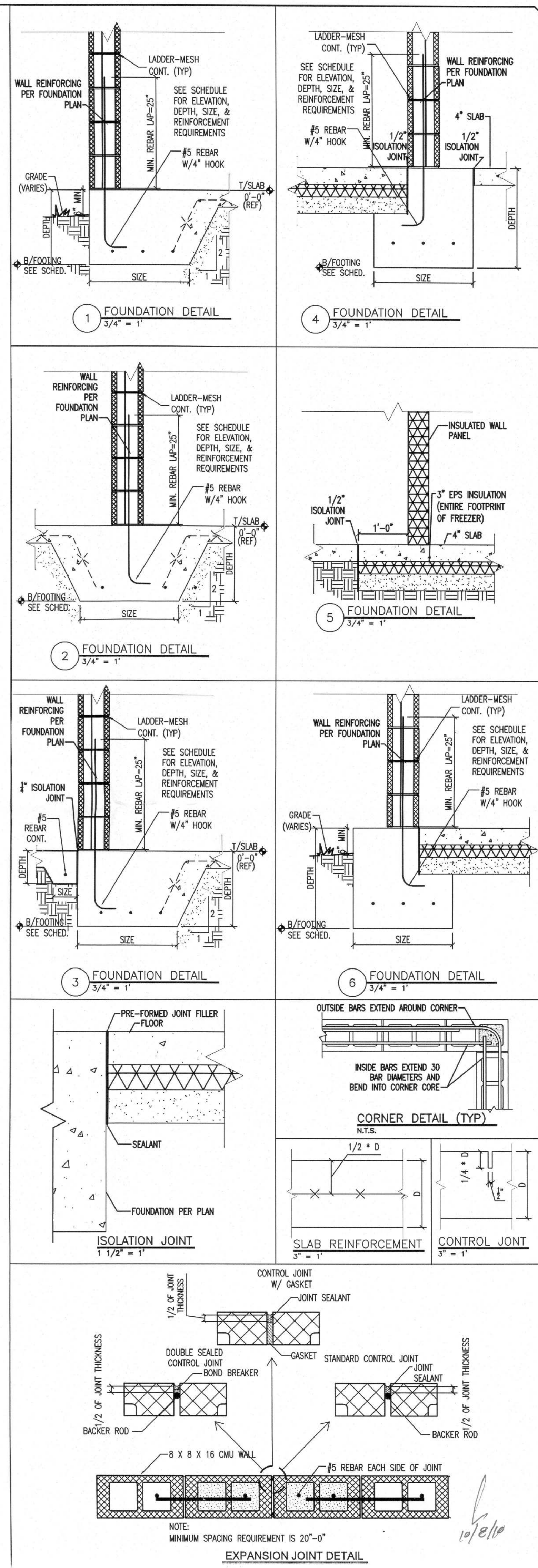


FOUNDATION PLAN
1/4" = 1'

- *SLAB NOTES:
- (1) ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH.
 - (2) CONTROL JOINTS FOR CONCRETE SLAB SHALL BE SPACED AT 15' O.C. MAXIMUM.
 - (3) IF POWDER ACTIVATED ARE USED TO ANCHOR SILL PLATES THEY SHALL BE SPACED AT 1'-6" MAXIMUM FOR NON-SHEAR INTERIOR WALLS. IN ADDITION, ONE PIN SHALL BE LOCATED 6" FROM THE END OF EACH SILL PLATE AND 10" FROM THE END OF EACH SILL PLATE.
 - (4) BOTTOM OF ALL FOOTINGS SHALL BE NO LESS THAN 12" BELOW UNDISTURBED GROUND SURFACE.
 - (5) COMBINED AND INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 3,000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 2,000 PSF.
 - (6) THE CLEARED AND/OR CUT SURFACE IN BUILDING CONSTRUCTION AREAS MUST BE PROOF-ROLLED USING HEAVY ROLLER-COMPACTOR. ADJUST THE MOISTURE CONTENT OF THE SOIL, AS NECESSARY, TO AID COMPACTION. THE OBJECTIVE IS TO ACHIEVE A MINIMUM 90% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) TO A DEPTH OF AT LEAST 8" BELOW THE COMPACTED SURFACE.
 - (7) AFTER SATISFACTORY PROOF ROLLING OF THE CLEARED AND/OR CUT SURFACES IN ACCORDANCE WITH THE ABOVE, FILLING WITH SUITABLE, WELL COMPACTED SOIL MAY PROCEED. FILL MATERIAL SHOULD BE PLACED IN LEVEL LIFTS OF TO EXCEEDING 8" IN UNCOMPACTED THICKNESS. EACH LIFT SHOULD BE COMPACTED BY REPEATED PASSES WITH THE APPROPRIATE COMPACTION EQUIPMENT, TO ACHIEVE AT LEAST 90% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD. THE FILLING AND COMPACTION OPERATIONS SHOULD CONTINUE UNTIL THE DESIRED ELEVATION IS ACHIEVED. (10) FILL MATERIALS REQUIRED TO ELEVATE THE SLAB AREA SHOULD CONSIST OF SELECT FILLS, WHICH ARE UNIFORM GRADED CLEAN SANDS TO SLIGHTLY SILTY OR SLIGHTLY CLAYEY SANDS, FREE OF ORGANICS AND OTHER DELETERIOUS MATERIALS, WITH LESS THAN 35% PASSING THROUGH THE NO. 200 SIEVE.
 - (8) CONTRACTOR SHALL VERIFY ALL FOUNDATION DIMENSIONS PRIOR TO CONSTRUCTION. IF A DIMENSION CONFLICT OCCURS BETWEEN FLOOR PLAN AND THE FOUNDATION PLAN, THE FLOOR PLAN SHALL CONTROL.
 - (9) THE ELEVATION OF THE FLOOR SURFACE ON BOTH SIDES OF ANY DOOR SHALL NOT VARY MORE THAN 1/2" FOR A DISTANCE OF NOT LESS THAN THE WIDTH OF THE WIDEST LEAF.
 - (10) REFER TO SHEET P-1.0 PLUMBING PLAN FOR PLACEMENT OF CONDUITS IN SLAB.

LEGEND	
MARK	DESCRIPTION
#5	#5 REBAR
8X8X16 CMU WALL	8X8X16 CMU WALL

FOOTING SCHEDULE				
FOOTING MARK	FOOTING DIMENSIONS		BOTTOM REBAR	TOP REBAR
	SIZE	DEPTH		
F-1	2'-0" CONT.	2'-0"	(3) #5 CONT.	(1) #5 CONT.
F-2	2'-0" CONT.	2'-0"	(3) #5 CONT.	N/A
F-3	1'-0" CONT.	0'-8"	(3) #5 CONT.	N/A
F-4	0'-8" CONT.	0'-8"	(1) #5 CONT.	N/A
F-5	2'-0" CONT.	2'-0"	(3) #5 CONT.	(1) #5 CONT.



REVISION NOTES

REV #	DATE	ISSUED FOR CONSTRUCTION
1	06-11-10	

PROJECT NUMBER
PF10-051-S

DRAWN BY
F. VULETICH

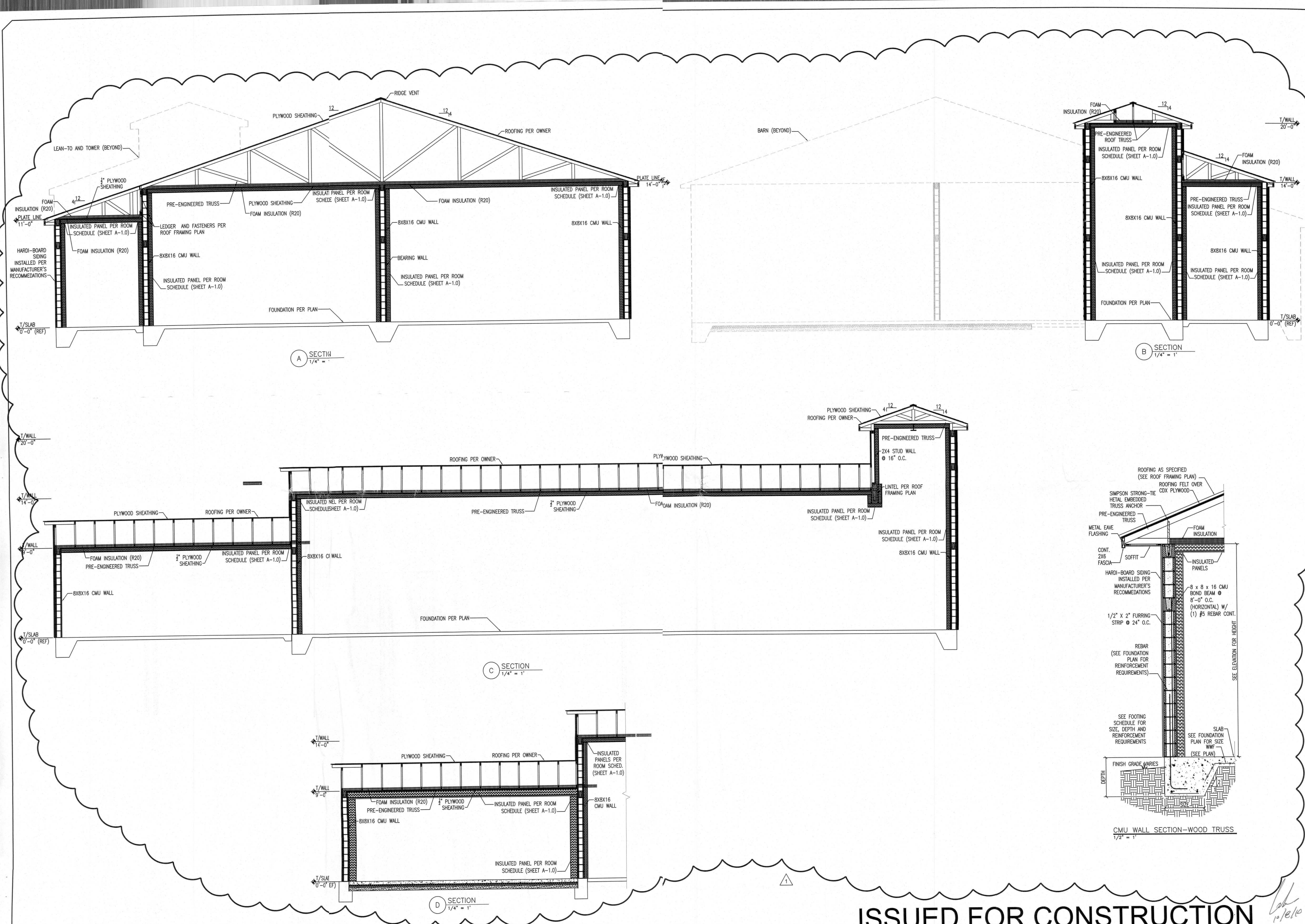
CHECKED BY
G.G.

S-2.0

NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

130 West Howard Street
Live Oak, FL 32060
Phone: (386) 362-3678
Fax: (386) 362-6133
Auth. # 9461

ISSUED FOR CONSTRUCTION



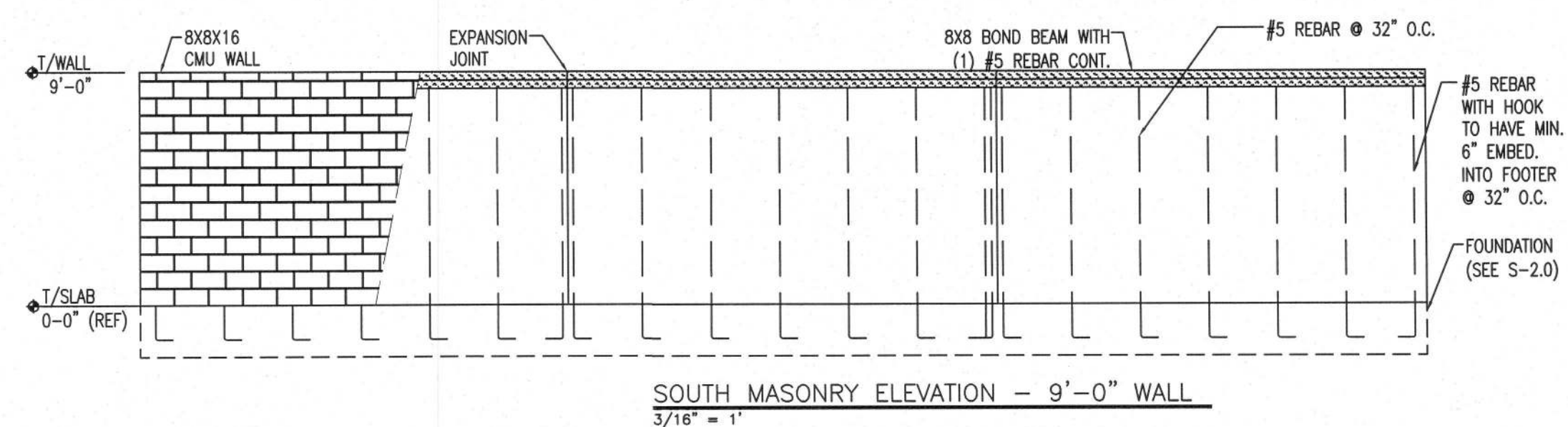
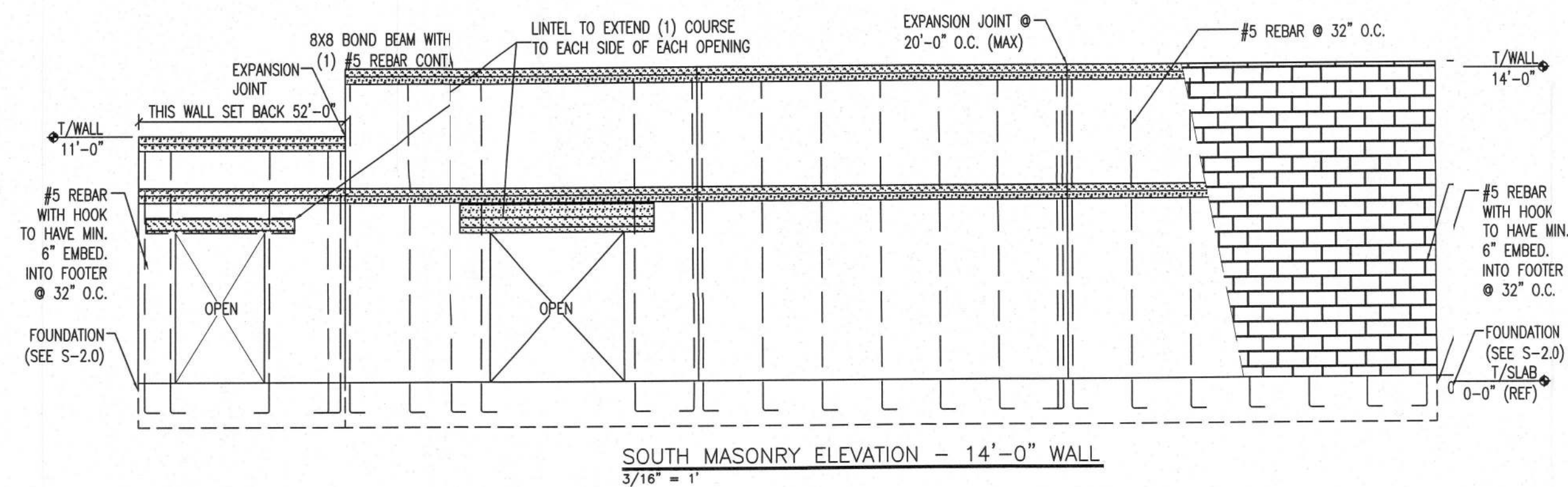
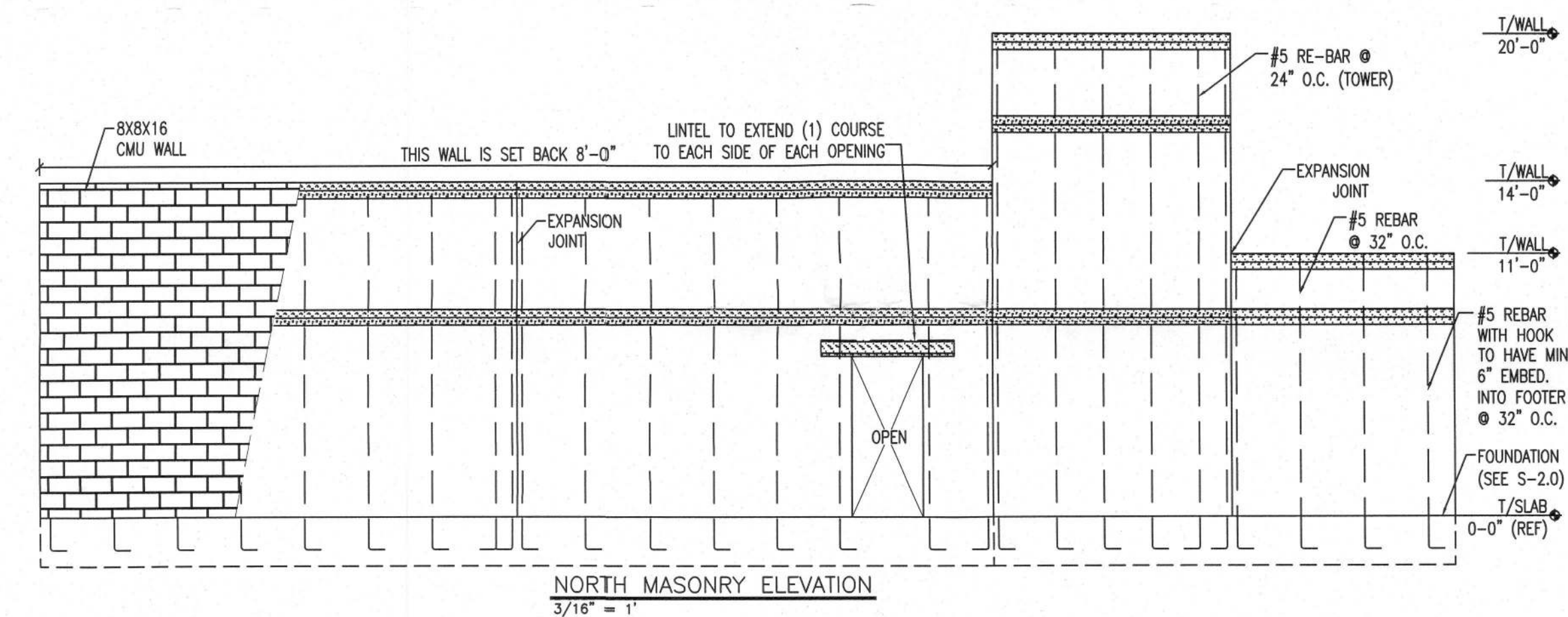
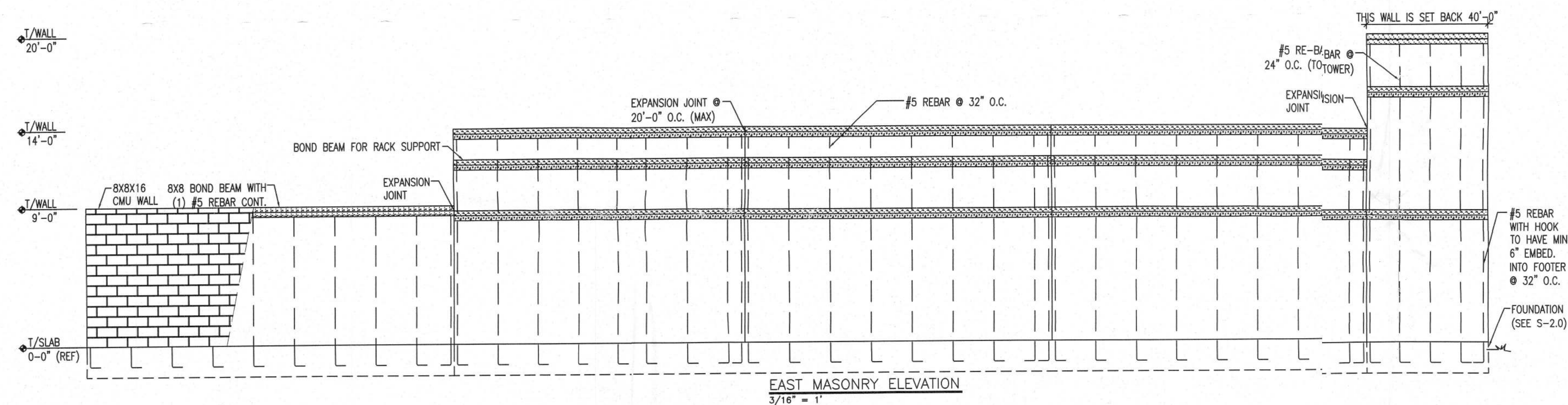
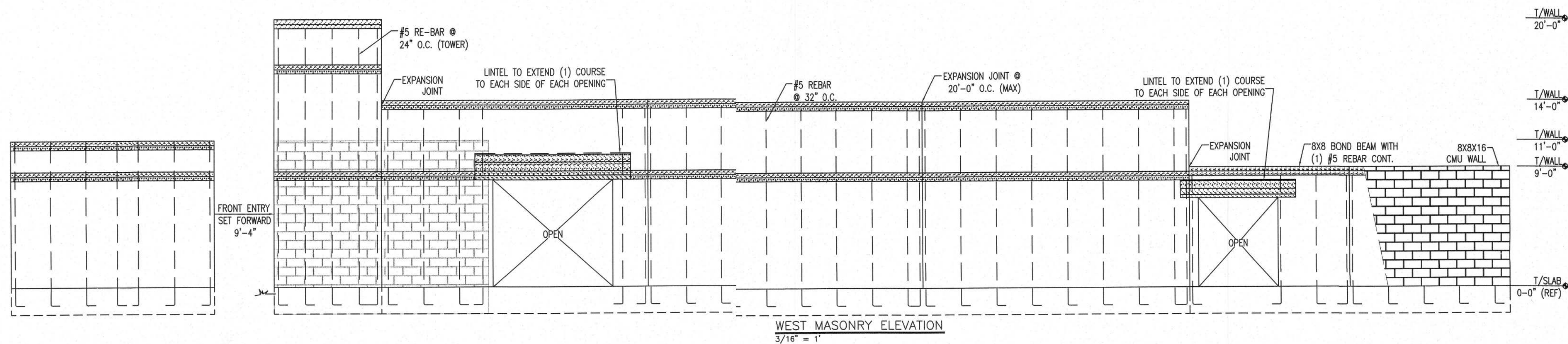
REV.#	DATE	REVISION NOTES
0	06-11-10	ISSUED FOR CONSTRUCTION
1	10-07-10	PER BUILDING DEPARTMENT

P.O. Box 187
 130 West Howard Street
 Live Oak FL 32064
 Phone: (386) 362-3678
 Fax: (386) 362-6133
 Gary J. Gill, PE 51942
 AUTH. # 9461
 STRUCTURAL CIVIL ENGINEERS

NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

SECTIONS
 PROJECT NUMBER: PF10-051-S
 DRAWN BY: F. VULETICH
 CHECKED BY: G.G.
 S-4.0
 8-Oct-10

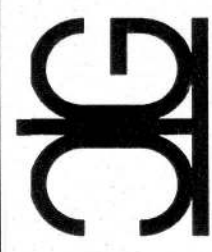
ISSUED FOR CONSTRUCTION



ISSUED FOR CONSTRUCTION

REV.#	DATE	DESCRIPTION
0	06-11-10	ISSUED FOR CONSTRUCTION

P.O. Box 187
130 West Howard Street
Live Oak FL 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Auth. # 9461

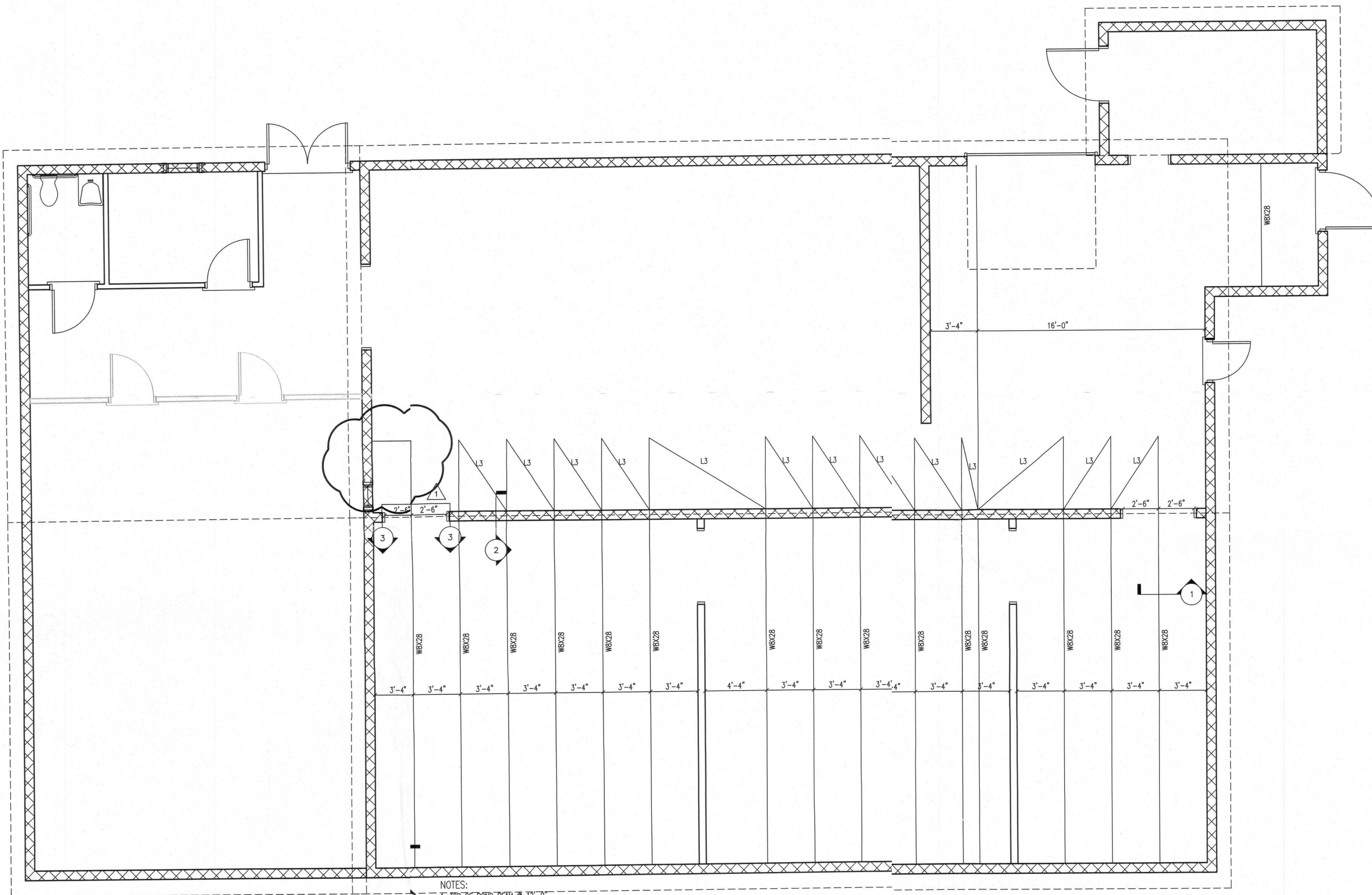


NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

MASONRY ELEVATIONS

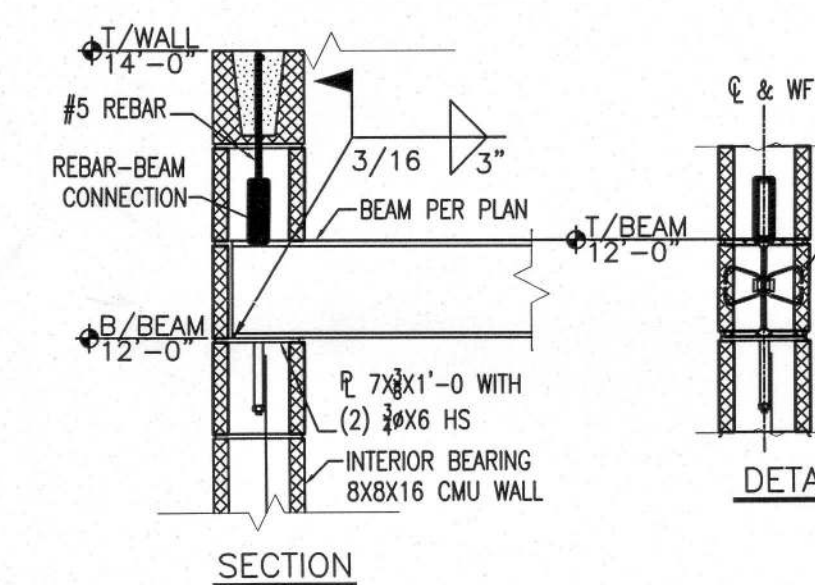
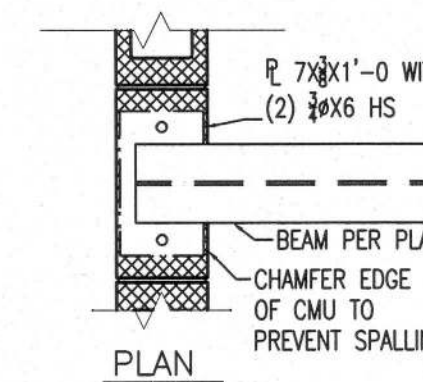
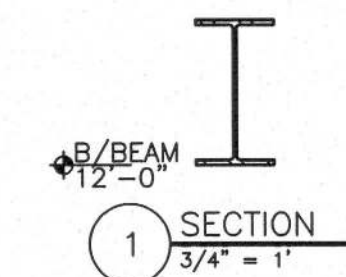
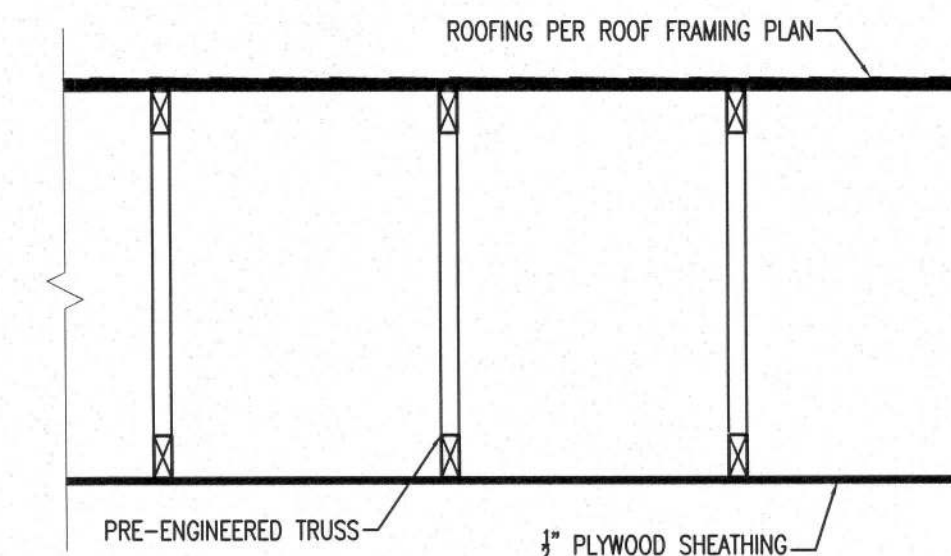
PROJECT NUMBER
PF10-051-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

S-5.0

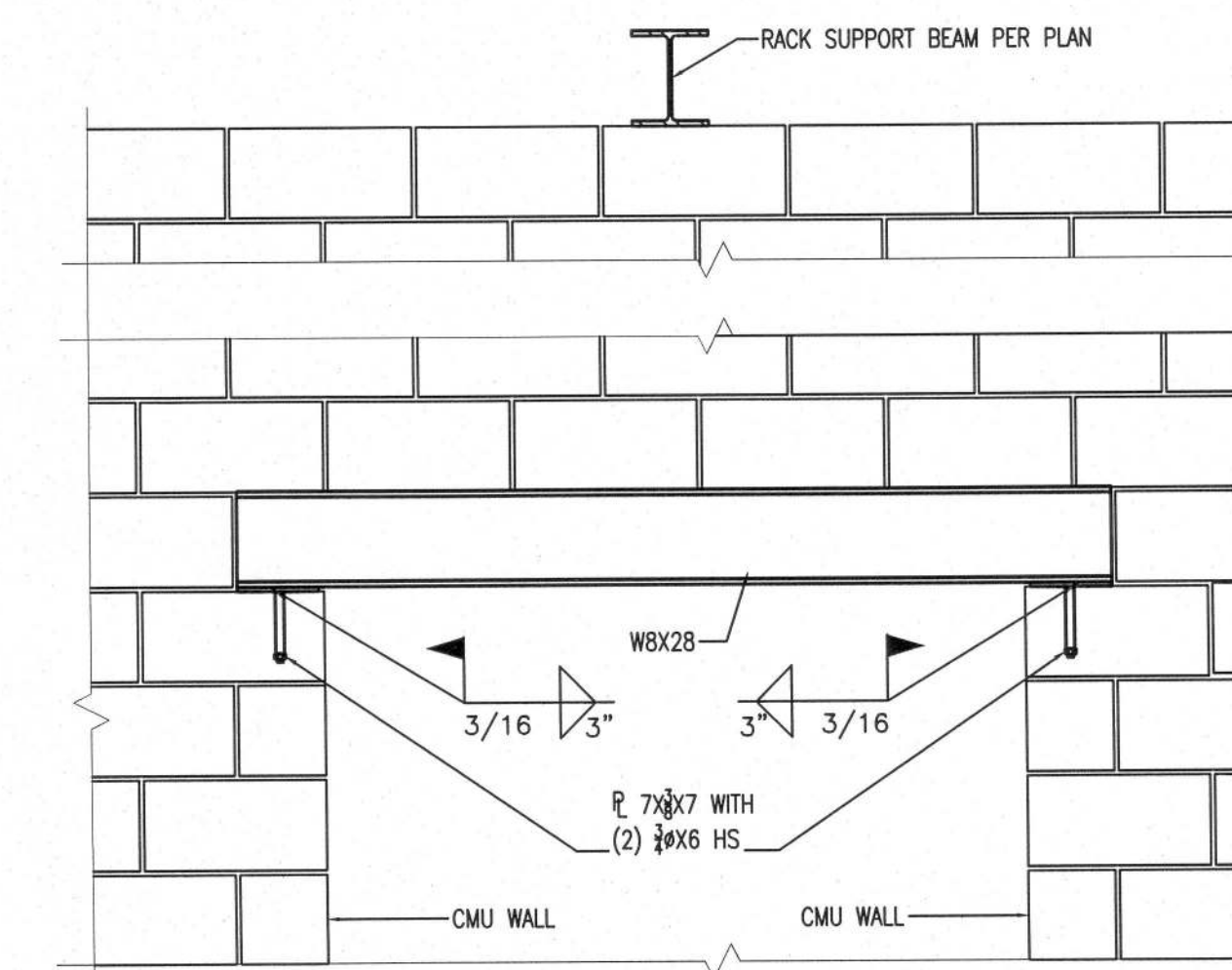


- NOTES:
1. TOP OF BOND BEAM @ 12'-0"
 2. L3 = 2.3X3X1/2"
 3. COORDINATE BEAM LAYOUT AND INSTALLATION WITH DRAWING A-3.0 HANGIN CONVEYOR PLAN

CONVEYOR BEAM PLAN
1/4" = 1'



2 SUPPORT BEAM TO CMU
3/4" = 1'



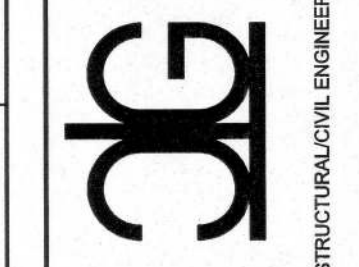
3 INTERIOR BEARING WALL OPENING
3/4" = 1'

ISSUED FOR CONSTRUCTION

10/2/10

REV #	DATE	REVISION NOTES
0	06-11-10	ISSUED FOR CONSTRUCTION
1	10-07-10	PER BUILDING DEPARTMENT

P.O. Box 187
130 West Howard Street
Live Oak, FL 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Auth. # 51942

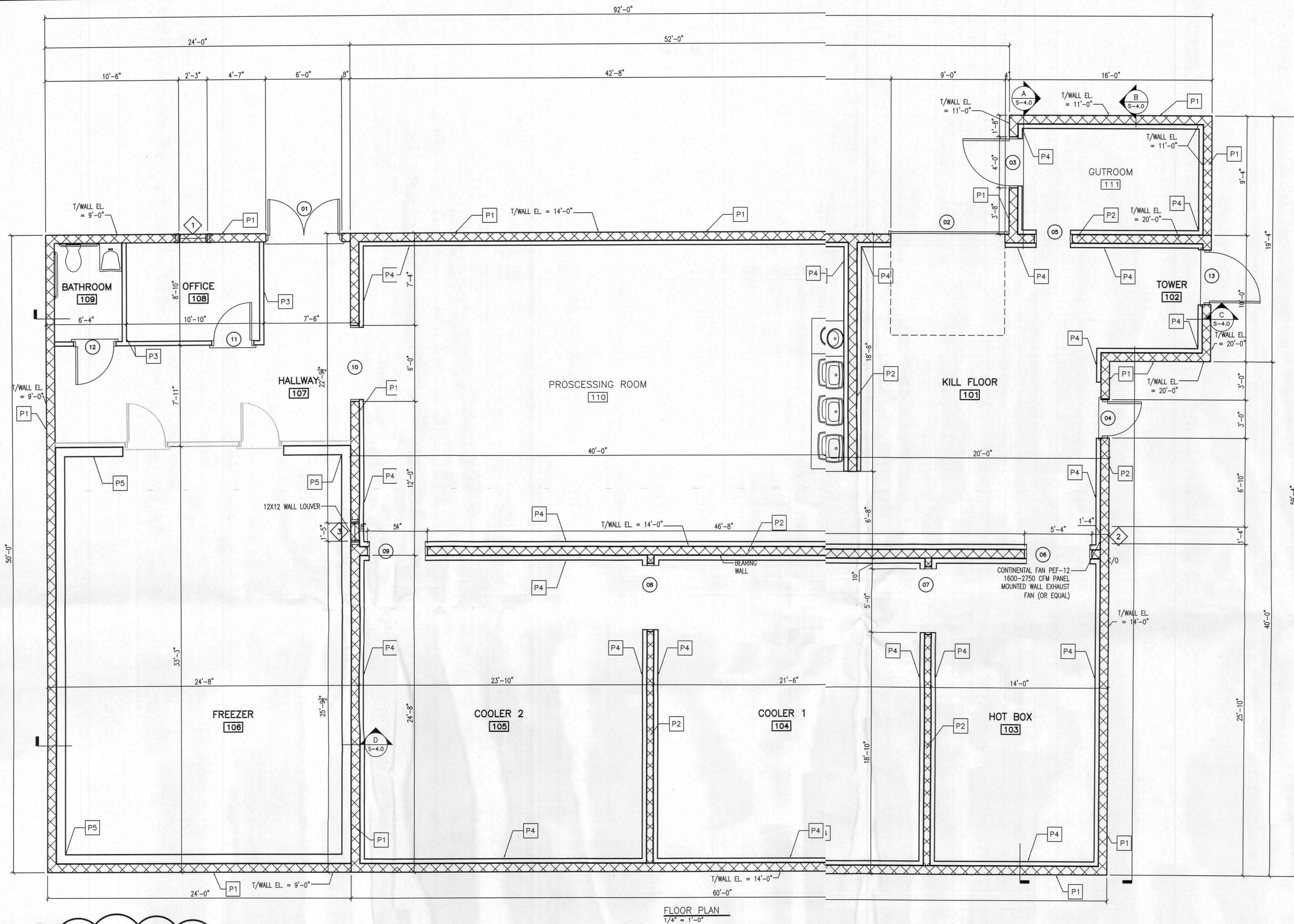


NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

CONVEYOR BEAM PLAN

PROJECT NUMBER
PF10-051-S
DRAWN BY
F. VULETICH
CHECKED BY
G.G.

A-5.0



VENTILATION CALCULATIONS		
AREA	FORMULA	CFM REQUIRED
MEAT PROCESSING	.5 CFM/SF = .5 X 3,061	1,531


PARTITION WALL LEGEND			
SYMBOL	DESCRIPTION	DETAIL	NOTE
P1	CONCRETE BLOCK WALL	8X8X16 CMU GROUT #5 REBAR 1'X2' @ 48" O.C. 24" O.C.	14'-0" WALL HEIGHT UNLESS NOTED OTHERWISE
P2	CONCRETE BLOCK WALL	8X8X16 CMU GROUT #5 REBAR 1'X2' @ 48" O.C.	14'-0" WALL HEIGHT UNLESS NOTED OTHERWISE
P3	2X4 WOOD STUD WALL	5/8" G.W.B. 2X4 WOOD STUD @ 16" O.C.	
P4	COLD STORAGE INSULATED PARTITION PANELS		PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK) INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
P5	COLD STORAGE INSULATED PARTITION PANELS		PERMATHERM ARCHITECTURAL INSULATING PANELS (8" THICK) INSTALLED PER MANUFACTURER'S RECOMMENDATIONS

WINDOW SCHEDULE					
MARK	SIZE	TYPE	FRAME	NOTES	
	WIDTH HEIGHT DIAM		MAT'L		
1	2'-0" 2'-0"	FRAMED OPENING	WOOD	FOR 100 CFM WALL A/C UNIT	
2	N/A N/A	FRAMED OPENING	WOOD	FOR EXHAUST FAN	
3	1'-5" 1'-5"	FRAMED OPENING	WOOD	FOR VENTILATION LOUVRES	

ROOM FINISH SCHEDULE														AREA
NUMBER	ROOM NAME	FLOOR	WALLS								CEILING		HEIGHT	
			NORTH		EAST		SOUTH		WEST		MAT'L	CLASS		
			MATERIAL	CLASS	MATERIAL	CLASS	MATERIAL	CLASS	MATERIAL	CLASS				
101	KILL FLOOR	CONCRETE	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	14'-0"	464.00 SF
102	TOWER	CONCRETE	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	20'-0"	69.33 SF
103	HOT BOX	CONCRETE	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	14'-0"	320.00 SF
104	COOLER 1	CONCRETE	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	14'-0"	504.01 SF
105	COOLER 2	CONCRETE	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	14'-0"	560.02 SF
106	FREEZER	CONCRETE	PERMATHERM ARCHITECTURAL INSULATING PANELS (8" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (8" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (8" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (8" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (8" THICK)	A	9'-0"	760.05 SF
107	HALLWAY	CONCRETE	GYPSUM WALL BOARD	A	8X8X16 CMU	A	GYPSUM WALL BOARD	A	8X8X16 CMU	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	9'-0"	233.07 SF
108	OFFICE	CONCRETE	8X8X16 CMU	A	GYPSUM WALL BOARD	A	GYPSUM WALL BOARD	A	GYPSUM WALL BOARD	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	9'-0"	82.25 SF
109	BATHROOM	CONCRETE	8X8X16 CMU	A	GYPSUM WALL BOARD	A	GYPSUM WALL BOARD	A	8X8X16 CMU	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	9'-0"	41.68 SF
110	PROSCESSING ROOM	CONCRETE	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	14'-0"	928.03 SF
111	GUTROOM	CONCRETE	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	PERMATHERM ARCHITECTURAL INSULATING PANELS (4" THICK)	A	11'-0"	127.09 SF

DOOR SCHEDULE					
MARK	SIZE		MAT'L	FIRE RATING LABEL	NOTES
	WD	HGT			
1	6'-0"	6'-8"	HOLLOW METAL	---	---
2	9'-0"	8'-0"	METAL	---	---
3	4'-0"	6'-8"	SCREEN DOOR	---	---
4	3'-0"	6'-8"	HOLLOW METAL	---	---
5	3'-0"	6'-8"	FRAMED OPENING	---	---
6	5'-0"	6'-8"	FRAMED OPENING	---	---
7	5'-0"	6'-8"	FRAMED OPENING	---	---
8	5'-0"	6'-8"	FRAMED OPENING	---	---
9	5'-0"	6'-8"	FRAMED OPENING	---	---
10	6'-0"	6'-8"	FRAMED OPENING	---	---
11	3'-0"	6'-8"	HOLLOW METAL	---	---
12	3'-0"	6'-8"	HOLLOW METAL	---	---
13	4'-0"	6'-8"	HOLLOW METAL	---	---

ISSUED FOR CONSTRUCTION

	P.O. Box 187 130 West Howard Street Oak Park, IL 60462 Phone: (312) 362-6678 Phone: (312) 362-6678 Fax: (312) 362-6133		STRUCTURAL CIVIL ENGINEERS Gary J. Gilli, PE 51942 4	

P.O. Box 187
130 West Howard Street
Live Oak FL 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Gary J. Gill, PE 51942
Aut. # 9461
STRUCTURAL CIVIL ENGINEER

NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

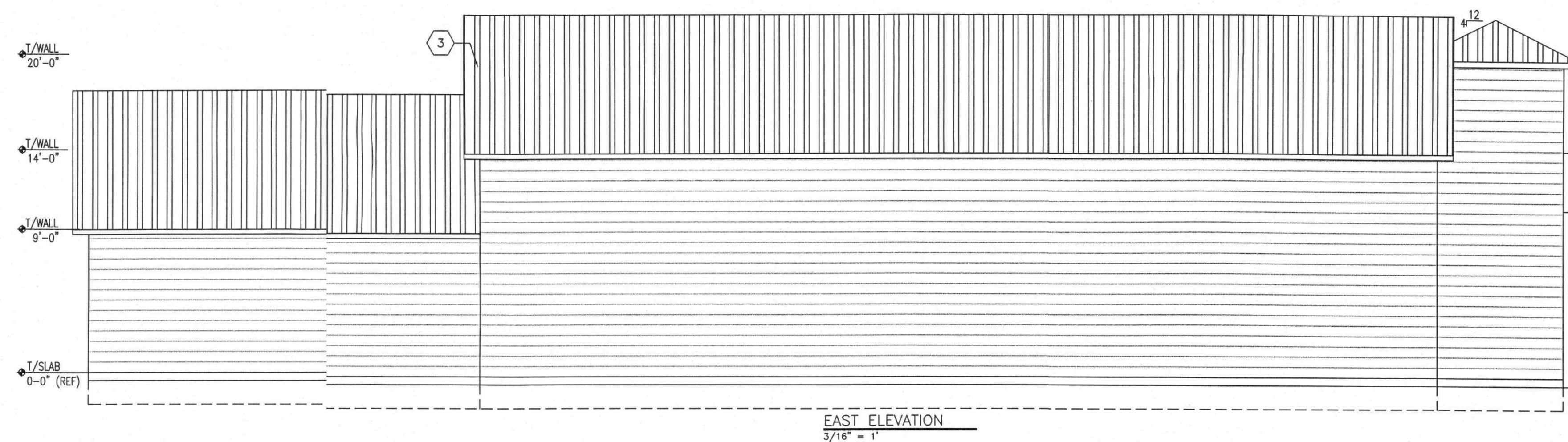
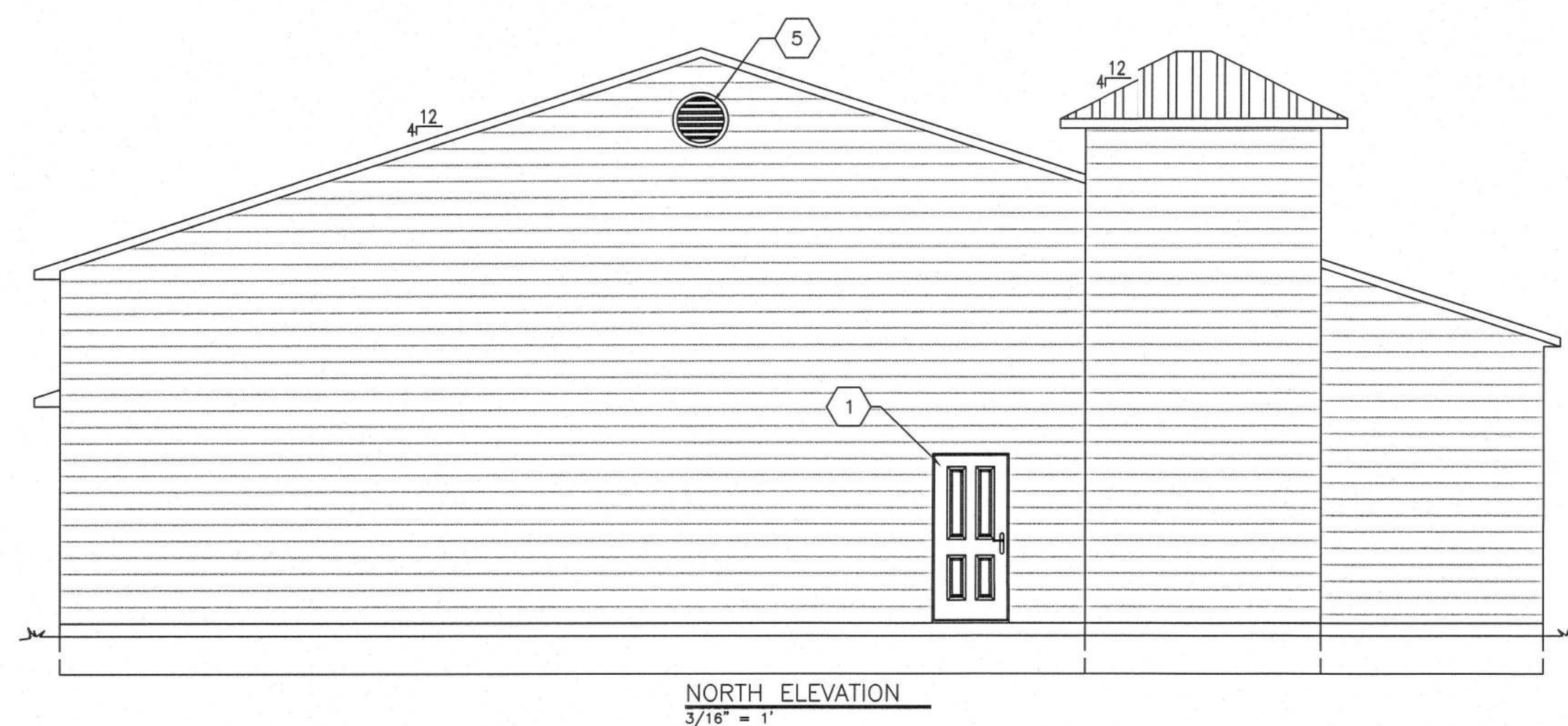
FLOOR PLAN

PROJECT NUMBER
PF10-051-S

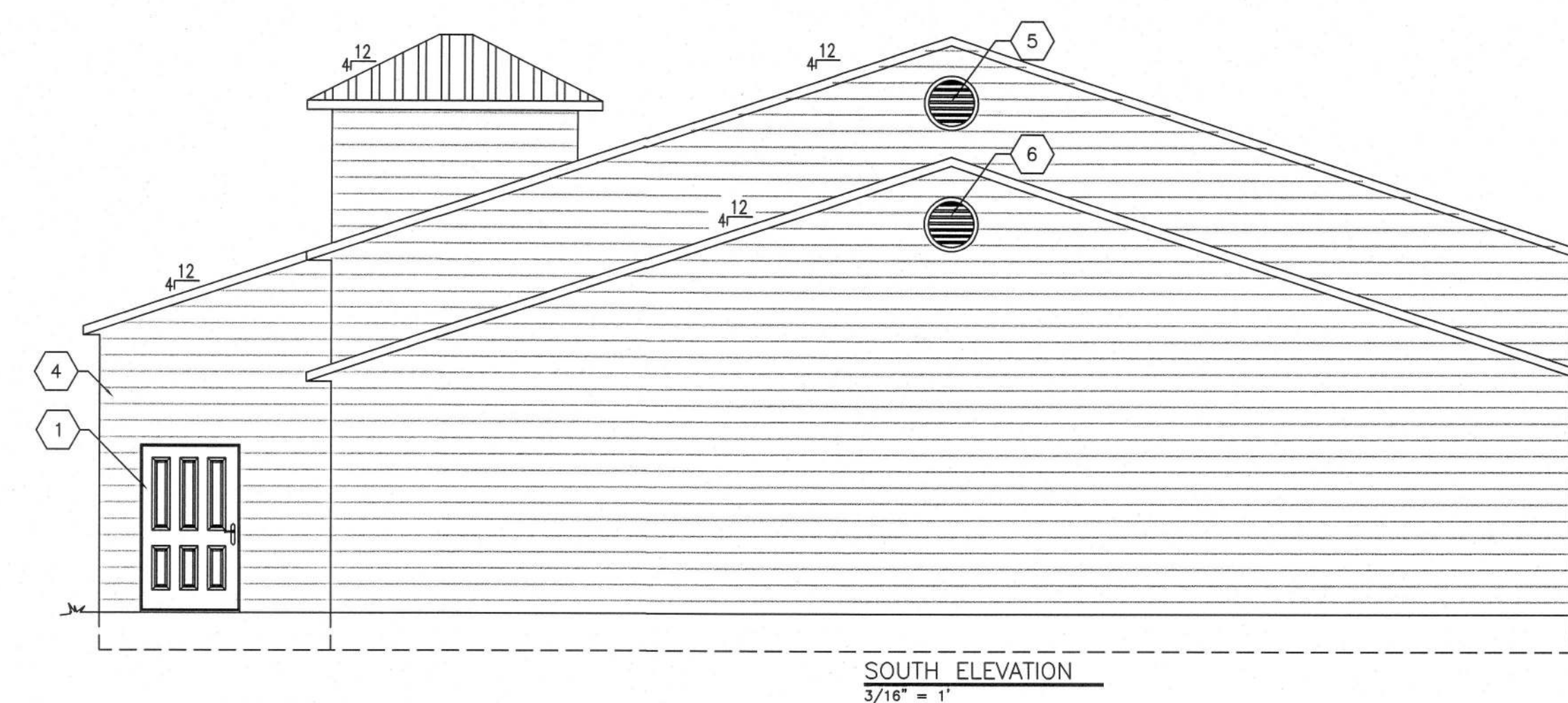
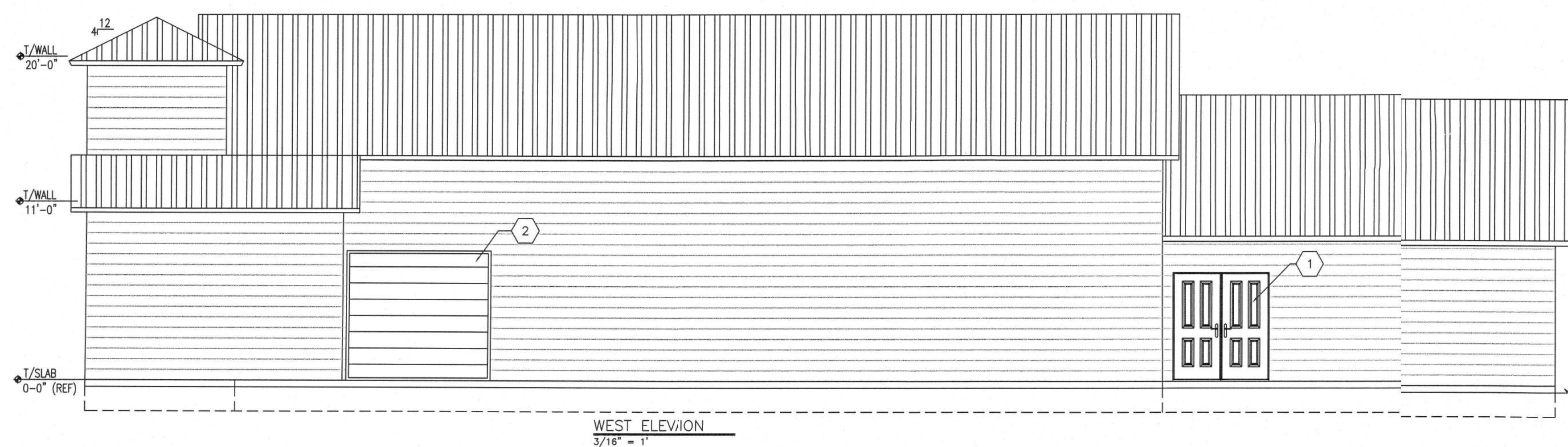
DRAWN BY
F. VULETICH

CHECKED BY
G.G.

A-1.0



SHEET KEYNOTES		
1	HOLLOW METAL	EXTERIOR DOOR
2	METAL OVERHEAD	SECTIONAL DOOR
3	5V METAL	ROOFING
4	HARDI-BOARD	SIDING
5	INDUSTRIAL SHUTTER MOUNTED WALL EXHAUST FAN	(MIN 1500 CFM)
6	INDUSTRIAL SHUTTER MOUNTED WALL EXHAUST FAN	(MIN 1200 CFM)



ISSUED FOR CONSTRUCTION

[Signature]
8/18/10

REV #	DATE	REVISION NOTES
0	06-11-10	ISSUED FOR CONSTRUCTION

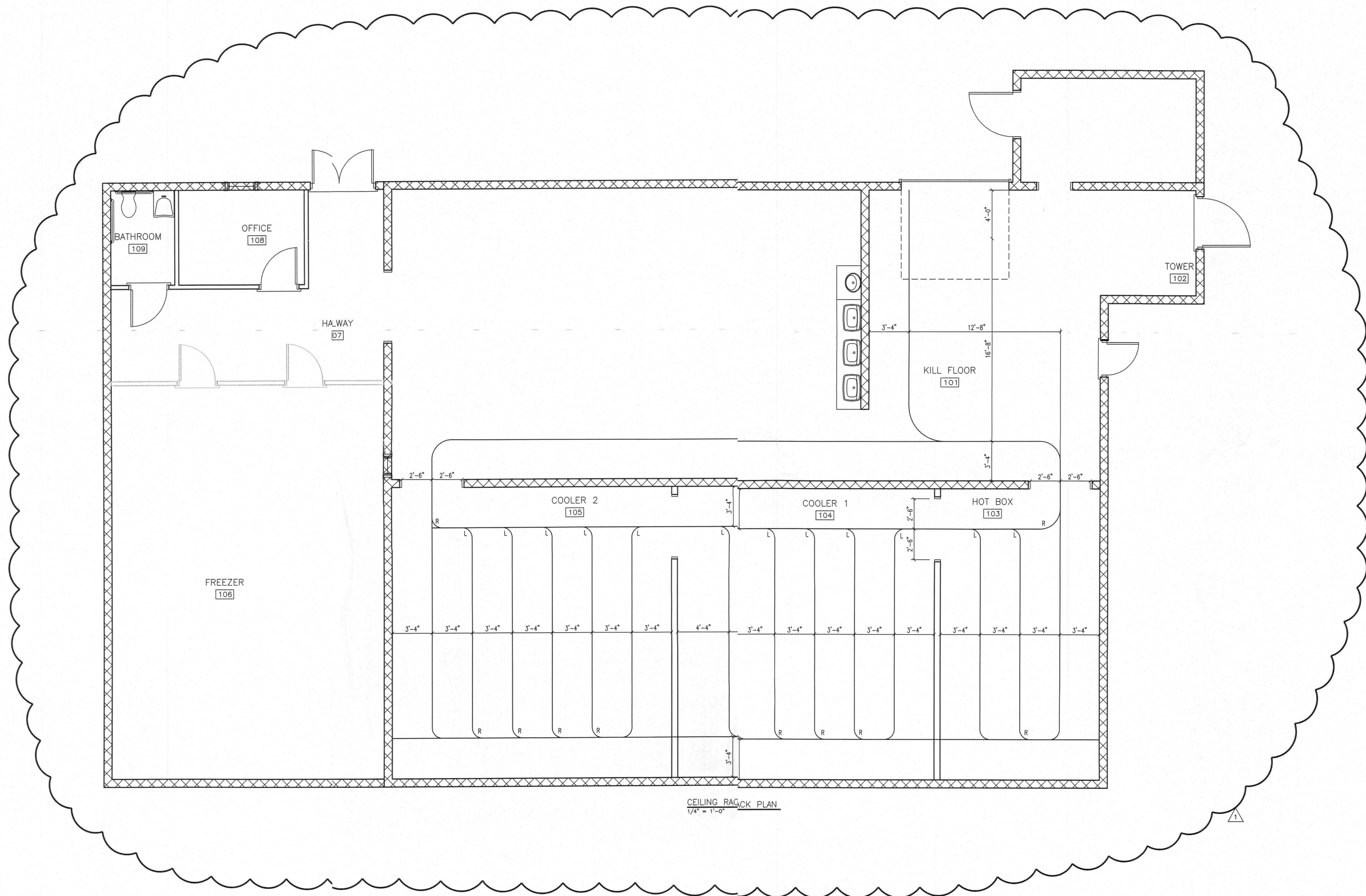
NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

ELEVATIONS

PROJECT NUMBER	PF10-051-S
DRAWN BY	F. VULETICH
CHECKED BY	G.G.

A-2.0

SHEET 0 OF 13

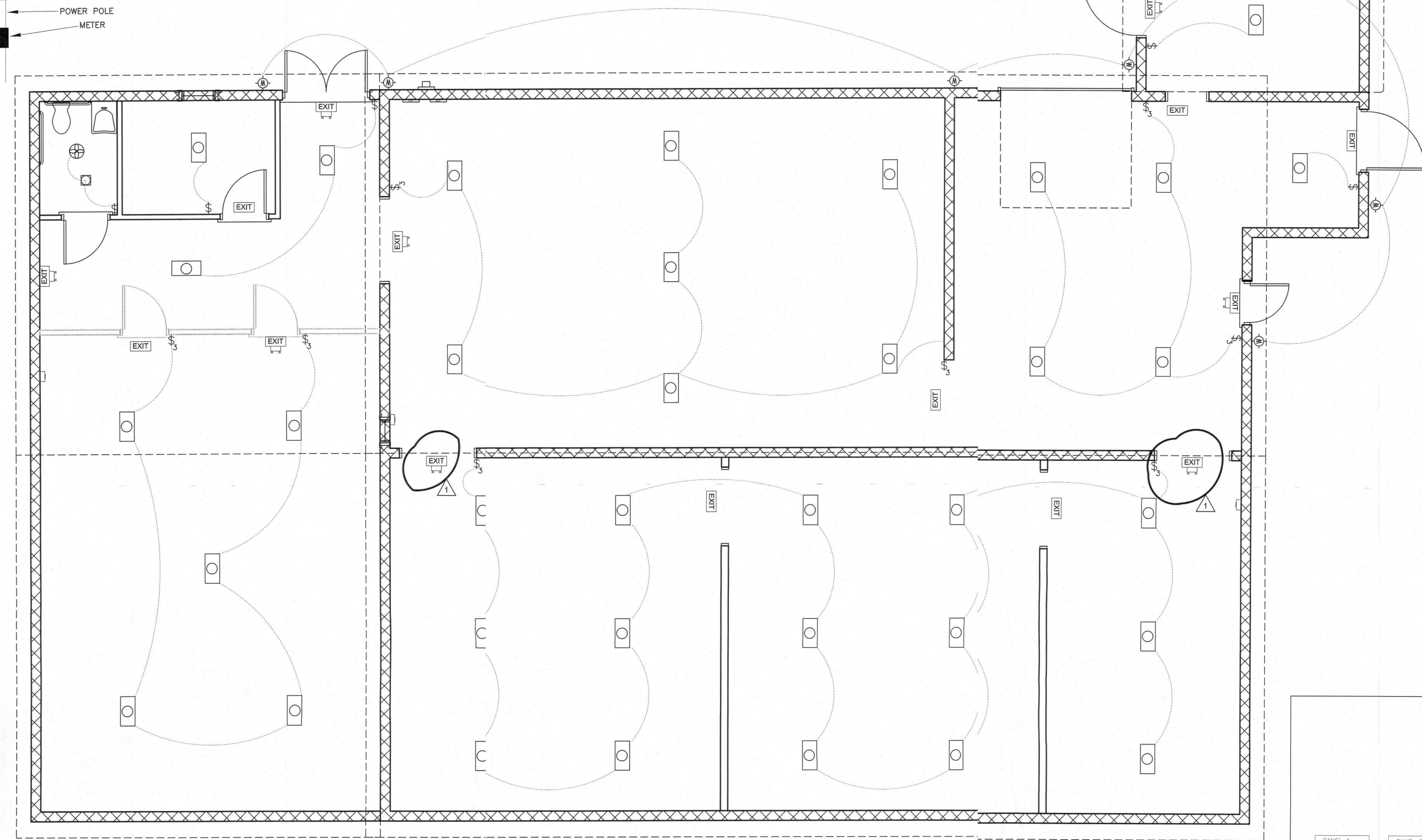


CEILING RACK PLAN
1/4" = 1'-0"

ISSUED FOR CONSTRUCTION

PROJECT NUMBER PF10-051-S	DRAWN BY F. VULETICH	CHECKED BY G.G.	A-3.0	NETTLE'S SAUSAGE BEEF FACILITY COLUMBIA COUNTY, FLORIDA		P.O. Box 187 130 West Howard Street Live Oak FL 32064 Phone: (386) 362-3678 Fax: (386) 362-6133 Gary J. Gill, PE 51942 Aut. # 9461	REV # 0 1	DATE 06-11-10 10-07-10	REVISION NOTES ISSUED FOR CONSTRUCTION PER BUILDING DEPARTMENT

10/2/10



ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL SPECIFICATIONS

GENERAL:

1.1 CONTRACTOR SHALL PROVIDE THE FOLLOWING:

- LABOR
- SUPPLIES
- MATERIALS
- SHOP DRAWINGS
- PERMITS AND INSPECTION FEES
- CERTIFICATE OF FINAL INSPECTION AND APPROVAL
- ONE YEAR GUARANTEE

2. CONTRACTOR SHALL PERFORM THE FOLLOWING:

- INSTALLATION OF ALL ELECTRICAL EQUIPMENT
- COORDINATION WITH OTHER TRADES OF ELECTRICAL EQUIPMENT INSTALLATION
- MATERIAL PROTECTION DURING CONSTRUCTION
- TEST OF ENTIRE SYSTEM IN PRESENCE OF OWNER OR HIS REPRESENTATIVE AND CORRECT ANY DEFICIENCIES DISCOVERED
- COORDINATION OF ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY
- COORDINATION OF TELEPHONE SERVICE WITH LOCAL TELECOMMUNICATIONS COMPANY

3. GOVERNING CODES SHALL BE THE FOLLOWING:

- FLORIDA ELECTRICAL CODE 2007 W/2009 REV.
- NATIONAL ELECTRICAL CODE (NEC) 2008
- UTILITY COMPANY REGULATIONS
- AMERICAN WITH DISABILITIES ACT
- CURRENT APPLICABLE BUILDING CODE
- LOCAL BUILDING CODES AND ORDINANCES
- THE NATIONAL MANUFACTURES ASSOCIATION STANDARDS (NEMA)
- UNDERWRITER LABORATORIES INCORPORATED STANDARDS (UL)
- AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
- THE MANUFACTURER'S RECOMMENDATION

MATERIALS WILL BE:

- NEW
- U.L. LISTED

RACEWAYS

1.1 USE AND TYPE:

- SERVICE ENTRANCE - RIGID STEEL
- FEEDERS - RIGID STEEL EXCEPT ABOVE 8' - 0" AND INDOOR THAN EMT
- BRANCH CIRCUIT, TELEPHONE OR COMMUNICATION - EMT
- IN EARTH OR CONCRETE - SCHEDULE 40 PVC
- RECESSED LIGHTING FIXTURES - FLEXIBLE STEEL CONDUIT (SHORT BUT MAXIMUM 72")
- OUTDOOR FINAL CONNECTION TO EQUIPMENT OR IN WET LOCATIONS - LIQUID - TIGHT FLEXIBLE STEEL CONDUIT (MAXIMUM 36")
- ALL RACEWAYS, UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, SHALL BE CONCEALED IN WALLS, CEILINGS OR FLOORS
- PAIN ALL EXPOSED RACEWAYS COLOR AS DIRECTED BY THE ARCHITECT

1.2 CONDUIT BUSHINGS

- PROVIDE INSULATED CONDUIT BUSHINGS AT EACH END OF EVERY CONDUIT RUN

WIRES AND CABLES, 600VOLT

- COLOR CODING: 240/120V
- INSULATION: THIN, THIN, XHHW, 75 DEGREE C
- AMERICAN WITH DISABILITIES ACT SPECIFICALLY SHOWN ON DRAWINGS, WHEN ALUMINUM CONDUCTORS ARE UTILIZED - PROVIDE ANTI-OXIDATION INHIBITING COMPOUND
- FIXTURE WIRE, 600 VOLT, 200 DEGREE C, #14 AWG, MINIMUM STRANDED, TINNED COPPER WITH SILICONE RUBBER INSULATION AND AN OVERALL JACKET OF GLASS BRAID, AND RATED AS NEC TYPE "SF-2"

WIRES AND CABLES, 600VOLT CONT.

- TYPE MC OR AC CABLE MAY BE UTILIZED FOR BRANCH CIRCUIT WIRING IF ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY
- TYPE SE OR USE CING MAY BE UTILIZED FOR FEEDERS TO LOADERS IN APARTMENT UNITS IF ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY
- VOLTAGE DROP WILL NOT EXCEED 2% FOR FEEDERS AND 3% FOR BRAN CIRCUITS
- ATTACH SECURELY TBUILDING CONSTRUCTION OR SUPPORT FROM SA
- MASONRY BOXES SHL BE RACO OR STEEL CITY
- EXPOSED BOXES SHL BE CAST TYPE SIMILAR TO CROUSE HINDS TYPES
- ALL OTHERS SHALL STAMPED STEEL
- FLOOR BOXES

1.5 FLOOR BOXES

- PROVIDE CASRON FLOOR BOXES WITH ADJUSTABLE TERSETS AND BRASS COVERPLATES/PROVIDE NUMBER OF GANGS AND DEVICES NOTED ON DRAWINGS

WIRES AND CABLES, 600VOLT CONT.

- DUPLEX - 15 HP, 125VAC GROUNDED
- SINGLE - 15A, 125VAC GROUNDED
- RECEPTACLES 1 DEDICATED CIRCUITS SHALL UTILIZE 20 AW 125VAC, GROUNDED TYPE

1.2 WALL SWITCHES (COLAS DIRECTED BY ARCHITECT)

- SINGLE POLE 30AMP, 120/277V, SINGLE THROW QUIET PE, GROUNDED
- DOUBLE THROW 20AMP, 120/277V, SINGLE THROW QUIET PE, GROUNDED
- THREE WAY - 2AMP, 120/277V, SINGLE THROW QUIET TYPE, GUNDED
- FOUR WAY - 2AMP, 120/277V, SINGLE THROW QUIET TYPE, GUNDED

WIRES AND CABLES, 600VOLT CONT.

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

WIRES AND CABLES, 600VOLT CONT.

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

WIRES AND CABLES, 600VOLT CONT.

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

WIRES AND CABLES, 600VOLT CONT.

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

WIRES AND CABLES, 600VOLT CONT.

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

WIRES AND CABLES, 600VOLT CONT.

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

WIRES AND CABLES, 600VOLT CONT.

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

WIRES AND CABLES, 600VOLT CONT.

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

WIRING DEVICES CONT.

1.3 COVERPLATES: PROVIDE FINISH AND COLOR DIRECTED BY ARCHITECT

ELECTRICAL SERVICE

1.1 GENERAL

- PROVIDE NEW SERVICE AS SHOWN ON "ONE LINE DIAGRAM"

OCCUPANCY SENSOR

- IN ORDER TO MEET THE ENERGY CODE THE ENTIRE FACILITY MUST HAVE OCCUPANCY SENSORS. IT IS A REQUIREMENT TO SEND THE FLOOR PLAN TO THE SENSOR MANUFACTURER SO THAT THE CONTROL SYSTEM AND SENSOR COVERAGE MAY BE APPLIED PROPERLY. A SHOP DRAWING MAY BE SENT, FROM THE MANUFACTURER, WITH SENSOR COVERAGE AND WIRING DIAGRAMS.

PANEL BOARDS

- PANELBOARDS SHALL HAVE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

PANEL BOARDS

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

PANEL BOARDS

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

PANEL BOARDS

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

PANEL BOARDS

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

PANEL BOARDS

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

PANEL BOARDS

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

PANEL BOARDS

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

PANEL BOARDS

- THREE PHASE, 4 WIRE, OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
- GROUND BUS WITH SET SCREW CONNECTION
- SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

PANEL BOARDS

PANEL BOARDS CONT.

- BAKED-ON ENAMAL TRIM
- SWITCH RATED BOLT-ON BREAKERS
- TYPEWRITTEN DIRECTORY
- PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- SQUARE D, SIEMENS, OR G.E.

GROUNDING

- SERVICE ENTRANCE

- SEE DETAIL 1/E-1

- FEEDERS AND BRANCH CIRCUITS

- PROVIDE A GREEN INSULATED GROUND CONDUCTOR, SIZED PER THE NEC, IN EACH RACEWAY AND WITH ALL CABLING

LIGHTING FIXTURES

- COORDINATE FIXTURE TRIMS WITH CEILING IN/ON IN WHICH IT IS BEING INSTALLED

- PROVIDE LOW TEMPERATURE, HIGH EFFICIENCY ELECTRONIC BALLASTS IN FLOURESCENT FIXTURES

- PROVIDE THERMAL OVERLOAD PROTECTION IN BOTH FLOURESCENT AND INCANDESCENT FIXTURES

- MATCH VOLTAGE OF FIXTURE TO CIRCUIT TO WHICH FIXTURE IS SHOWN CONNECTED

- NARRATIVE DESCRIPTION IN LIGHTING FIXTURE SCHEDULE TAKES PRECEDENCE OVER CATALOG NUMBER

- ALL RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING SHALL BE PROVIDED WITH GYPSUM WALL BOARD ENCLOSURE, CONSTRUCTED AND INSTALLED PER UL REQUIREMENTS, AROUND THE PORTION OF FIXTURE LOCATED ABOVE SUSPENDED CEILING TO MAINTAIN FIRE RATING CEILING.

LIGHTING LEGEND

- EXHAUST FAN

- 400 AMP METER

- 4' WRAP 2 LAMP

- CEILING MOUNTED LIGHT

- WALL MOUNTED LIGHT

- 200 AMP PANEL

- 400 AMP PANEL

- EMERGENCY LIGHT EXIT SIGN COMBO (BATTERY BACKUP)

- LIGHTED EXIT SIGN

- OCCUPANT SENSOR

- SINGLE POLE SWITCH

- 3 WAY SWITCH

LIGHTING LEGEND

SYMBOL QUANTITY DESCRIPTION

- EXHAUST FAN

- 400 AMP METER

- 4' WRAP 2 LAMP

- CEILING MOUNTED LIGHT

- WALL MOUNTED LIGHT

- 200 AMP PANEL

- 400 AMP PANEL

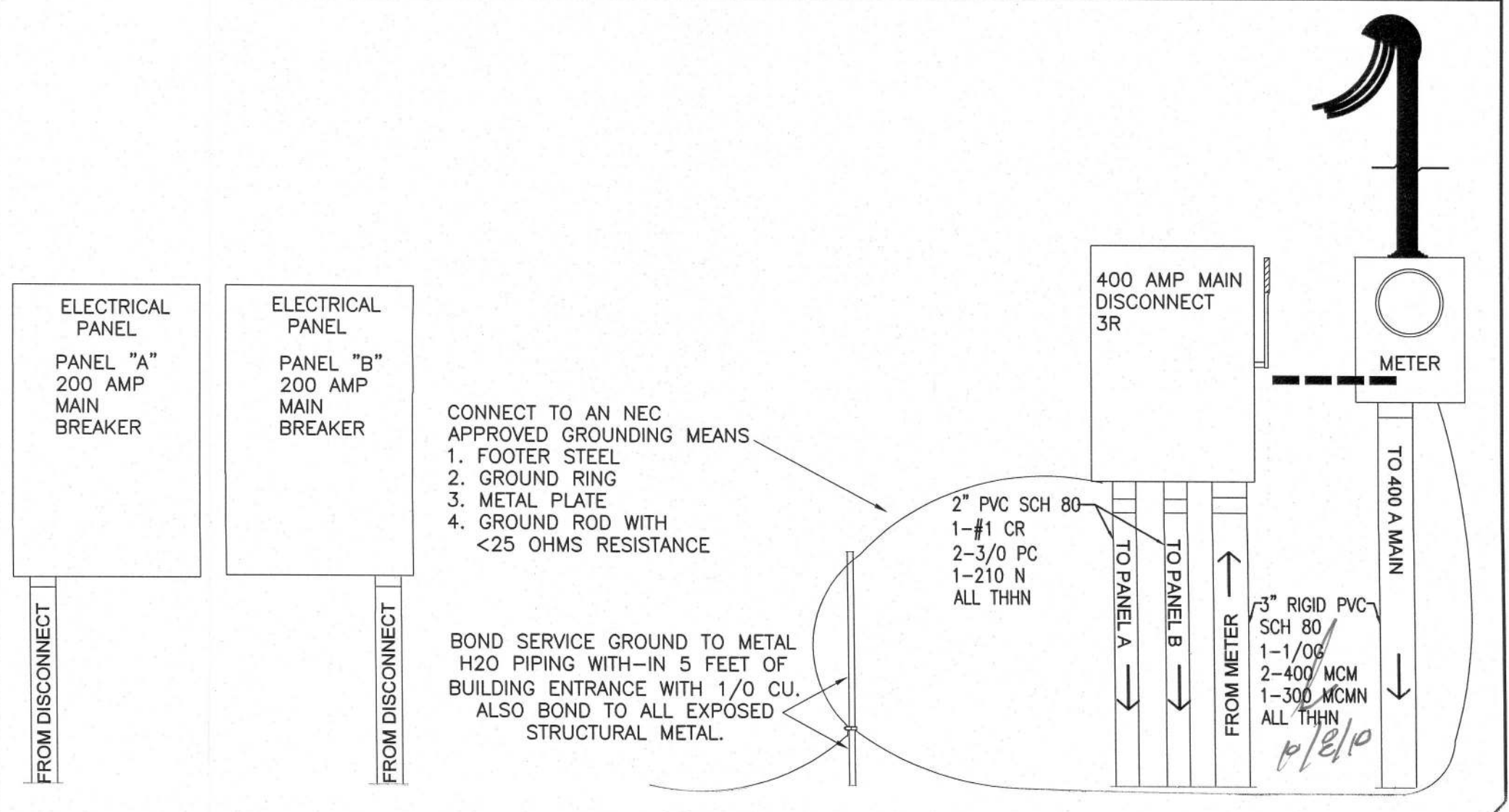
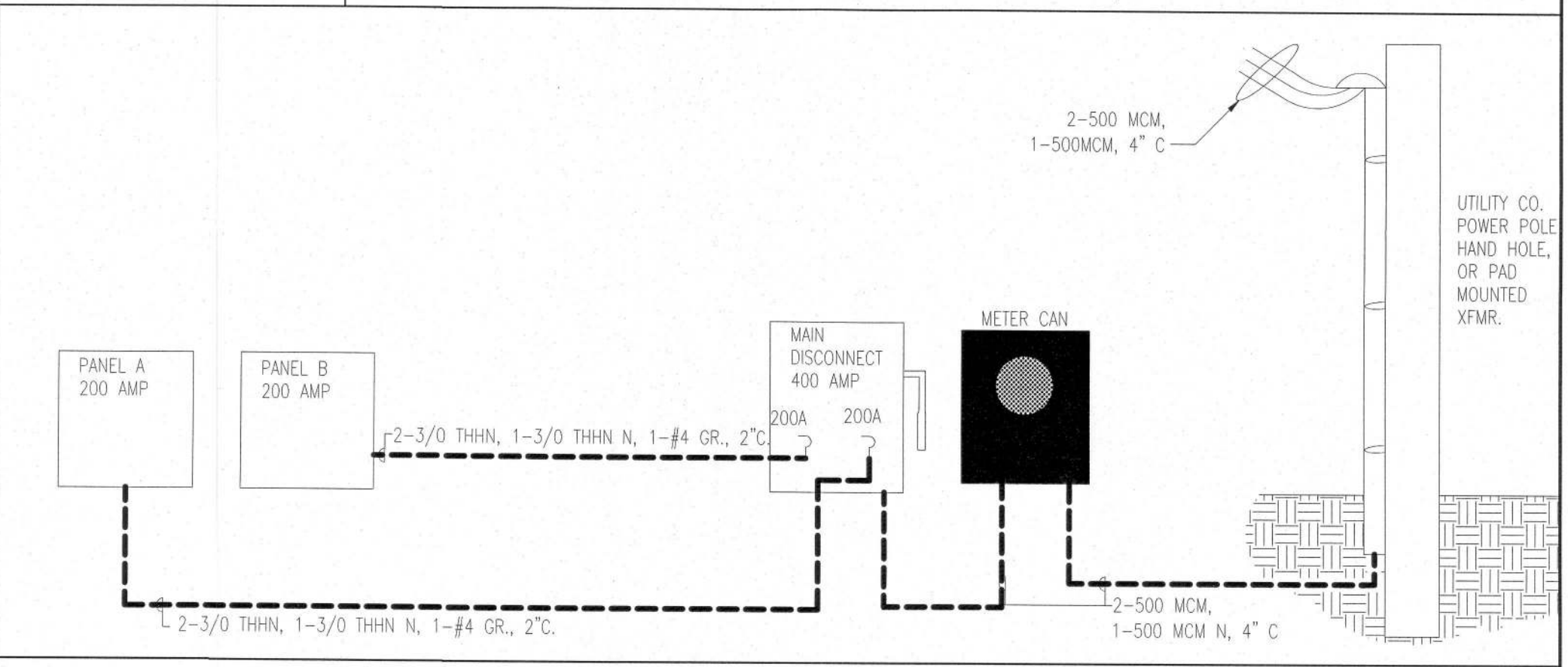
- EMERGENCY LIGHT EXIT SIGN COMBO (BATTERY BACKUP)

- LIGHTED EXIT SIGN

- OCCUPANT SENSOR

- SINGLE POLE SWITCH

- 3 WAY SWITCH



REVISION NOTES

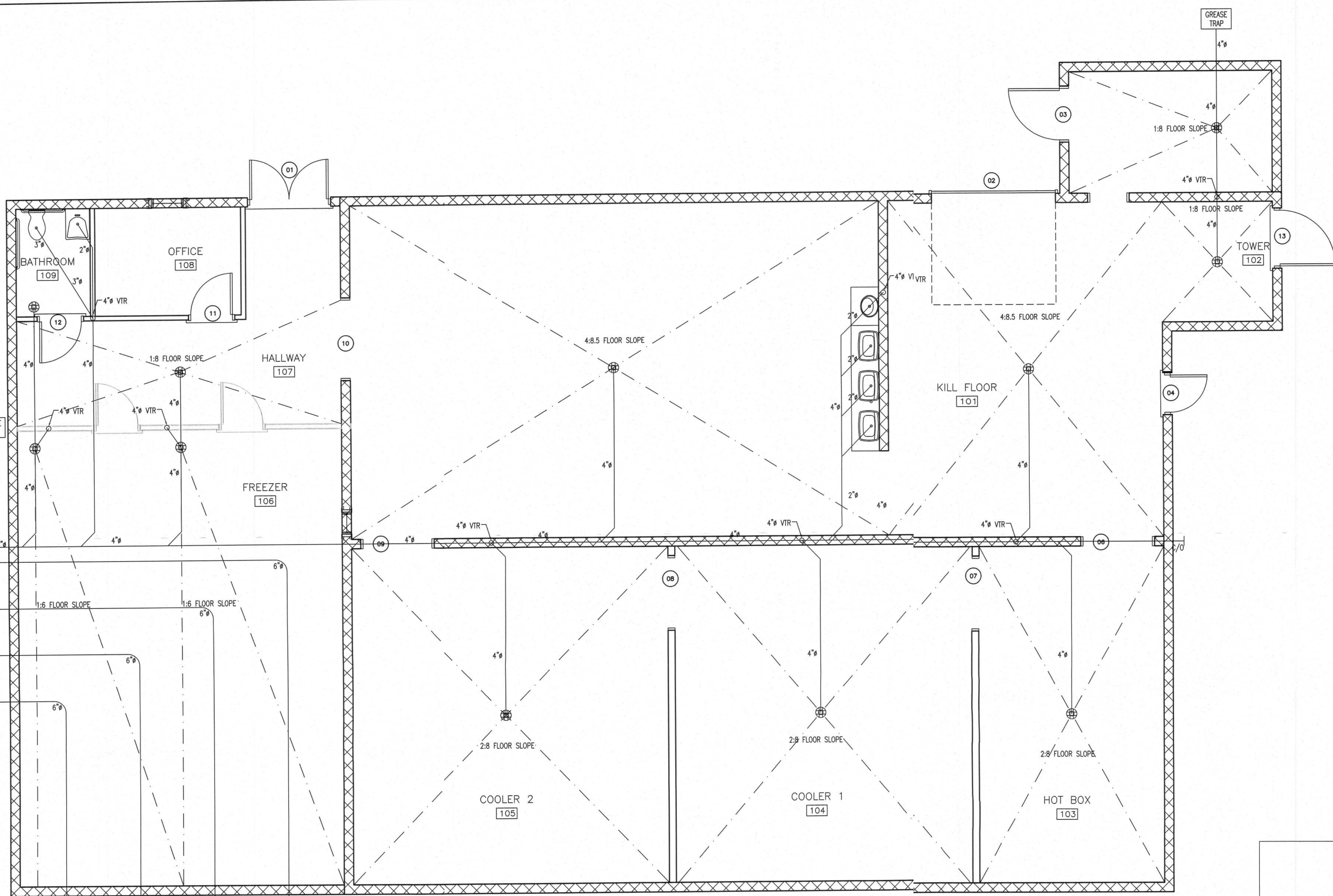
REV #	DATE	DESCRIPTION
1	10-07-10	ISSUED FOR CONSTRUCTION

PROJECT NUMBER: FF10-051-S
DRAWN BY: F. VULETICH
CHECKED BY: G.G.

NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

ELECTRICAL PLAN

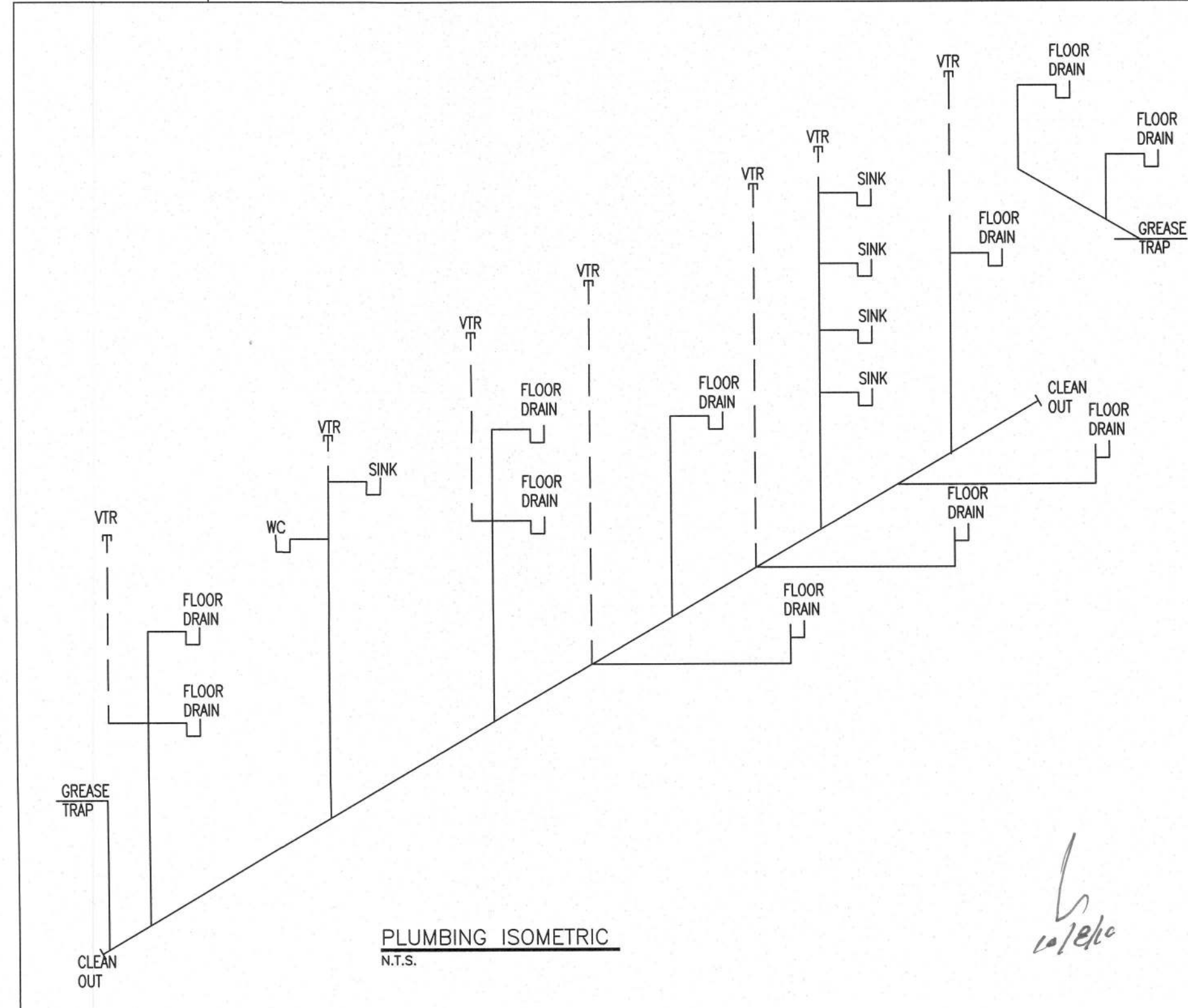
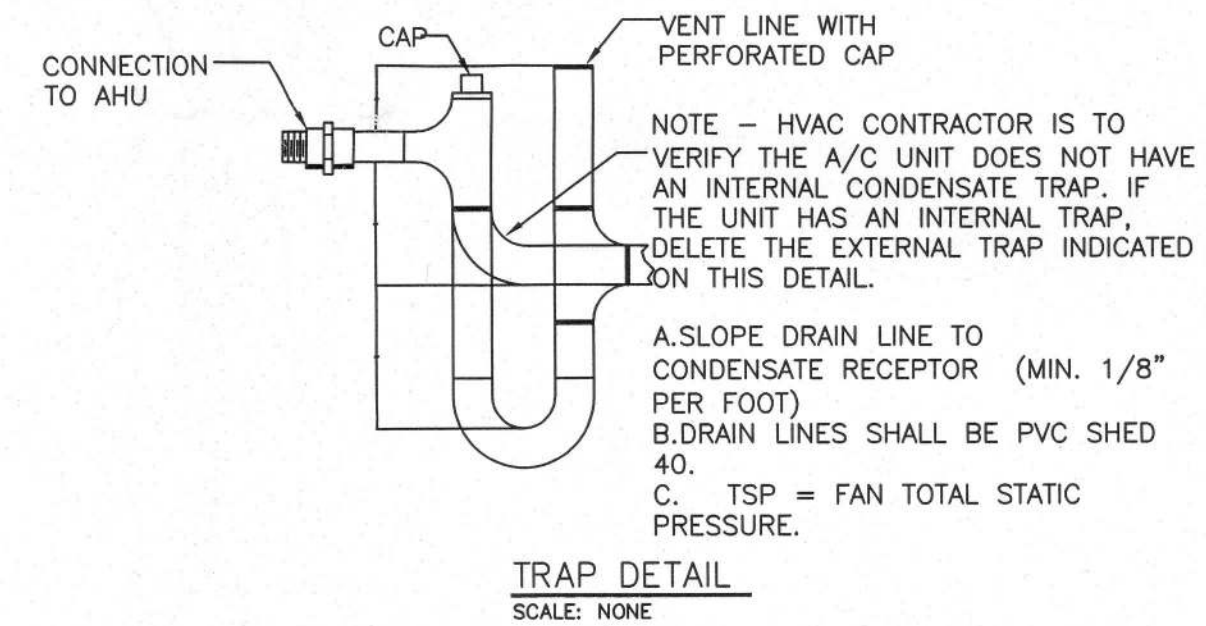
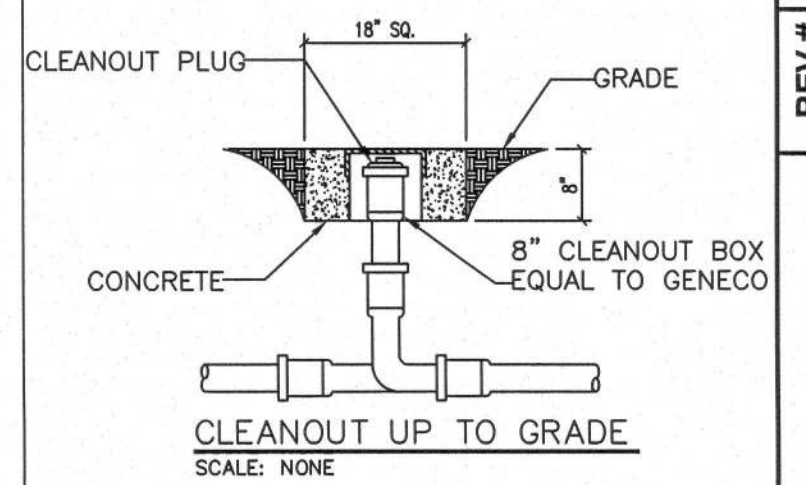
SHEET 1 OF 13



MECHANICAL PLAN
1/4" = 1'-0"

GENERAL PLUMBING NOTES

- DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC., PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.
- ALL WORK AND MATERIAL SHALL COMPLY WITH THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
- THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
- ALL MATERIAL SHALL BE NEW.
- ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ON YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGES AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE IN THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
- ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
- WATER PIPING SHALL BE CPVC.
- SOIL, WASTE, AND VENT PIPING SHALL BE PVC SCHEDULE 40 DWV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC.
- AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC SCHEDULE 40. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERIAL PIPING. ALL PIPING TO BE INSTALLED PER LOCAL CODE.
- FURNISH AND INSTALL APPROVED AIR CHAMBERSAT EACH PLUMBING FIXTURE AND PDI APPROVED SHACK ARRESTERS ON MAIN LINE AND RISERS.
- PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM #58890.
- INSULATE LINES AS FOLLOWS:
a. WATER SUPPLY AND RETURNS: 1" THICK ARMAFLEX
b. CONDENSATE DRAIN: 1/2" THICK ARMAFLEX



ISSUED FOR CONSTRUCTION

REVISION NOTES 06-11-10 0 130 West 187th Street Live Oak, FL 32064 Phone: (386) 362-3678 Fax: (386) 362-6133 Gary J. Gill, PE 51942 Auth. # 9461 STRUCTURAL CIVIL ENGINEERS	DATE 06-11-10	ISSUED FOR CONSTRUCTION
	PROJECT NUMBER PF10-051-S	
	DRAWN BY VULETICH	
	CHECKED BY G.G.	

NETTLE'S SAUSAGE
BEEF FACILITY
COLUMBIA COUNTY, FLORIDA

PLUMBING PLAN

P-1.0

SHEET 13 OF 13