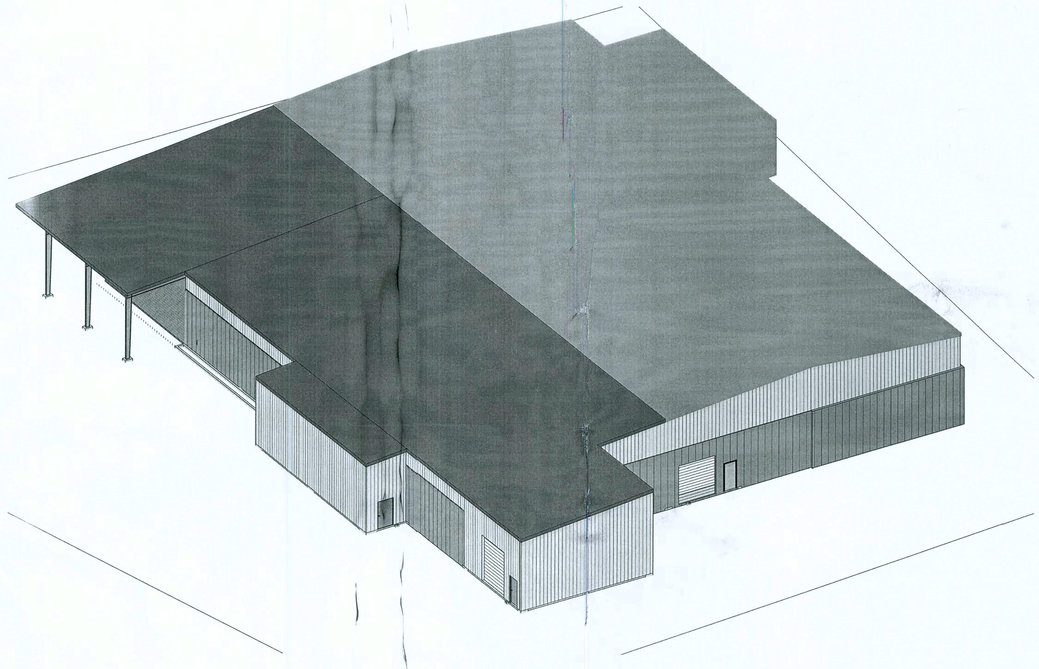
NETTLE'S SAUSAGE
PROCESS BUILDING EXPANSION
LAKE CITY, FL

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19





SHEET SCHEDULE			
SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE
T-001	TITLE	1	11/26/19
C-001	SITE PLAN	1	11/26/19
A-001	FLOOR PLAN	1	11/26/19
A-002	ELEVATIONS	1	11/26/19
A-003	ELEVATIONS	1	11/26/19
A-004	SECTIONS	1	11/26/19
A-005	SECTIONS	1	11/26/19
A-006	DETAILS	1	11/26/19
A-007	DETAILS	1	11/26/19
A-008	DETAILS	1	11/26/19
A-009	LIFE SAFETY	1	11/26/19
S-001	STRUCTURAL NOTES	1	11/26/19
S-002	FOUNDATION PLAN	1	11/26/19
S-003	FOUNDATION - MISC. DETAILS	1	11/26/19
S-004	FOUNDATION SECTIONS 1/2	1	11/26/19
S-005	FOUNDATION SECTIONS 2/2	1	11/26/19
L-001	LIGHTING PLAN	1	11/26/19
E-001	ELECTRICAL LAYOUT	1	11/26/19
E-002	ELECTRICAL NOTES	1	11/26/19
E-003	ELECTRICAL NOTES	1	11/26/19
M-001	BOILER PLAN	1	11/26/19
M-002	REFRIGERANT LAYOUT	1	11/26/19
M-003	REFRIGERANT EQUIPMENT	1	11/26/19
P-001	SANITARY LINES	1	11/26/19

STANDARDS AND CODES

1. RELATED DOCUMENTS: THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND SPECIAL CONDITIONS, (IF ANY), ALONG WITH THE GENERAL REQUIREMENTS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.
2. ALL WORK CONTAINED UNDER THIS CONTRACT IS BASED ON THE REQUIREMENTS CONTAINED IN THE LATEST EDITION OF ONE OR MORE OF THE FOLLOWING :
   - A. FLORIDA BUILDING CODE: 2017 FBC (6th EDITION)
   - B. FLORIDA PLUMBING CODE: 2017 FBC (6th EDITION)
   - C. FLORIDA MECHANICAL CODE: 2017 FBC (6th EDITION)
   - D. FLORIDA FIRE PREVENTION CODE: 2017 (6th EDITION)
   - E. ANSI A1171.1 (PHYSICAL HANDICAPPED): 2017 FBC (6th EDITION)
   - F. OTHER STANDARDS AS REFERENCED OR SPECIFIED IN OTHER SECTIONS
   - G. 2015 NFPA LIFE SAFETY CODE 101
3. CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL LAWS, CODES, AND ORDINANCES APPLICABLE TO THE WORK. THIS SHALL INCLUDE FEDERAL, STATE, COUNTY, AND/OR MUNICIPAL ENTITIES HAVING JURISDICTION.
4. IF GOVERNING LAWS, CODES OR ORDINANCES CONFLICT WITH THE SPECIFICATION, THEN THE LAWS, CODES OR ORDINANCES SHALL TAKE PRECEDENCE.
5. EXCEPT AS OTHERWISE REQUIRED BY THIS SECTION, ALL PRODUCTS AND WORKMANSHIP SHALL CONFORM TO THE BEST QUALITY AND PRACTICES RECOGNIZED BY AGENCIES, ASSOCIATIONS, COUNCILS, ETC., AS SPECIFIED IN INDIVIDUAL SECTIONS.

BUILDING INFORMATION

1. BUILDING AREA: 12,250 S.F.
2. CONSTRUCTION TYPE: TYPE "II-B" TABLE 601 - UNPROTECTED NON-SPRINKLED
   - A. ALLOWABLE AREA: 23000 S.F. ACTUAL: 12,250 S.F.
   - B. ALLOWABLE STORIES: 3 ACTUAL: 1
3. OCCUPANCY CLASS: BUSINESS GROUP S-2
4. OCCUPANCY LOADING / EGRESS REQUIREMENT:
   - B. WAREHOUSE: 500 S.F. / FLOOR AREA PER OCCUPANT
5. LIFE SAFETY INFORMATION:
   - A. COMMON PATH OF EGRESS TRAVEL MAX 75 FT TABLE 1006.2.1
   - B. EXIT ACCESS TRAVEL DISTANCE MAX 200 FT TABLE 1017.2

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COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

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Gill Engineering Services, Inc.

PROCESS PLANT EXPANSION

LAKE CITY, FL

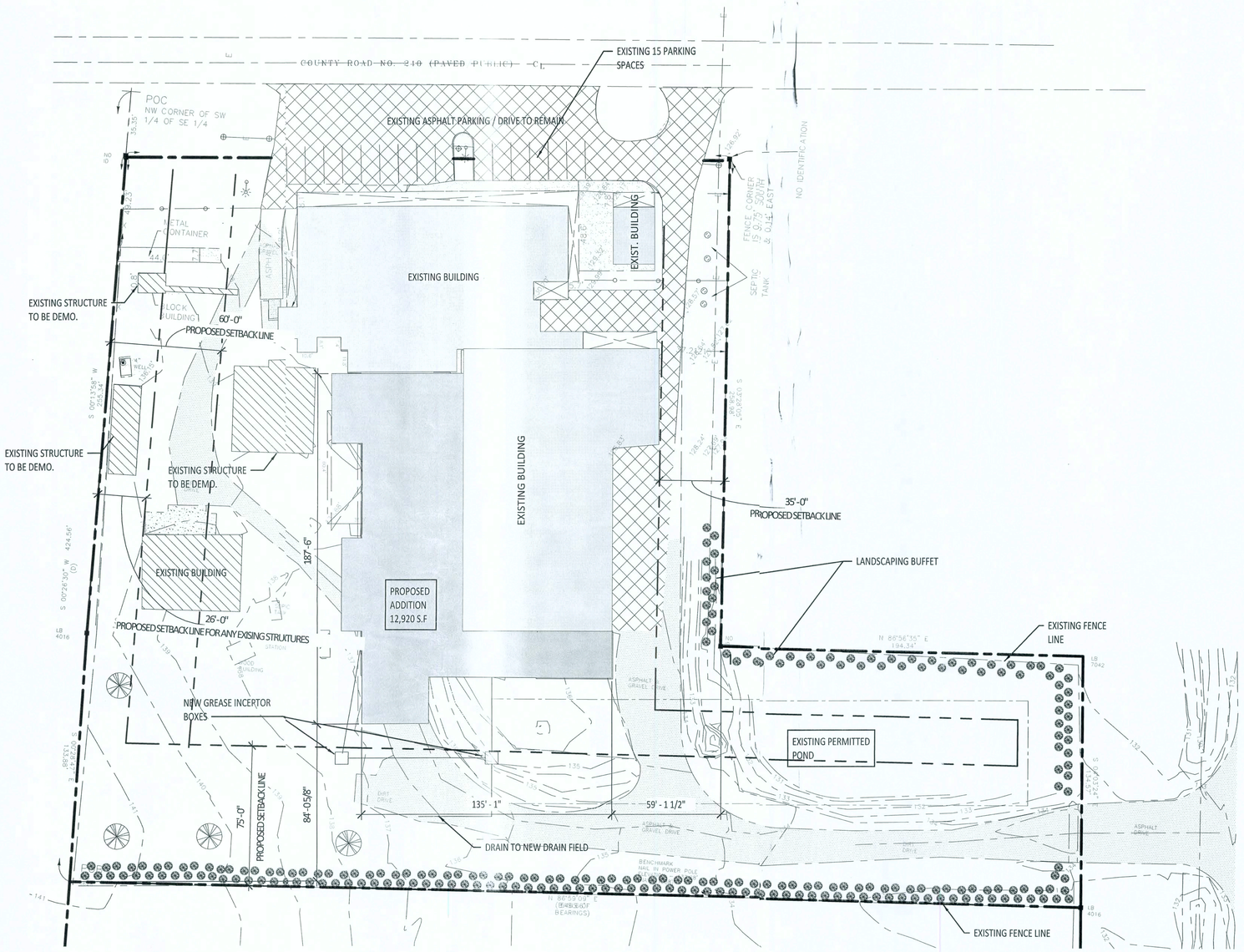
NETTLES SAUSAGES

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CHKD BY:	GG	
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AUTH # 30824
GARY GILL PE #51942
426 SW COMMERCE DR 130-M
LAKE CITY, FL 32025 386-590-1242

TITLE

1809-020	DWG #: T-001	REV #: 1



1 SITE PLAN
1" = 30'-0"

0' 20' 30' 60' 120'

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

SITE PLAN INFORMATION:

PROJECT NAME: NETTLES SAUSAGE PROCESSING PLANT EXPANSION
LOCATION: 190 SW CR 240, LAKE CITY, FL
OWNER: WILLIAM NETTLES
DESIGNER: DARYLE GRAY, PE (STORMWATER / ENVIRONMENTAL)
ENGINEER OF RECORD: GARY GILL, PE
PRESENT ZONING: A-3
STORMWATER MANAGEMENT PLAN:
SEE STORMWATER PERMIT PLANS - DARYLE GRAY
SRWMD PERMIT: ERP-023-208947-4

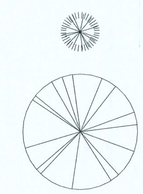
LANDSCAPING REQUIREMENTS:

1. THE LANDSCAPED BUFFER AREA WIDTH SHALL BE MEASURED AT RIGHT ANGLES TO PROPERTY LINES AND SHALL BE ESTABLISHED ALONG THE ENTIRE LENGTH OF AND CONTIGUOUS TO THE DESIGNATED PROPERTY LINE OR LINES.
2. THE AREA SHALL BE SO DESIGNED, PLANTED, AND MAINTAINED AS TO BE 80 PERCENT OR MORE OPAQUE BETWEEN TWO AND SIX FEET ABOVE AVERAGE GROUND LEVEL WHEN VIEWED HORIZONTALLY; PROVIDED, HOWEVER, THAT PLANTINGS LOCATED IN THE REQUIRED FRONT YARD SHALL NOT EXCEED TWO AND ONE-HALF FEET IN HEIGHT.
3. TYPES AND NUMBERS OF PLANTINGS FOR LANDSCAPED BUFFERS SHALL BE SUBMITTED WITH APPLICATION FOR BUILDING PERMIT. NO BUILDING PERMIT SHALL BE ISSUED WITHOUT SUCH DATA, WHERE THESE LAND DEVELOPMENT REGULATIONS REQUIRE A LANDSCAPED BUFFER AREA OR AREAS.
4. PLANTINGS SHALL BE OF A SIZE AND TYPE WHICH WILL INSURE THE MEETING OF THE 80 PERCENT OPACITY REQUIREMENT WITHIN NO LONGER THAN 12 MONTHS OF THE DATE OF FIRST PLANTING. WHERE QUESTIONS MAY ARISE AS TO THE SUITABILITY OF PROPOSED PLANT MATERIALS MEET THIS REQUIREMENT, FINAL DETERMINATION OF SUITABILITY SHALL BE MADE BY THE LAND DEVELOPMENT REGULATION ADMINISTRATOR.
5. THE REMAINDER OF THE REQUIRED LANDSCAPED BUFFER AREA NOT COVERED BY PLANTING SHALLBE LANDSCAPED WITH GRASS, GROUND COVER, OR OTHER LANDSCAPE TREATMENT; EXCEPT AS OTHERWISE PROVIDED HEREIN, STRUCTURES INCLUDING BUILDINGS AND OFF-STREET PARKING AND LOADING AREAS SHALL NOT BE LOCATED IN ANY REQUIRED LANDSCAPED BUFFER AREA. 6. THE LANDSCAPED BUFFER AREA SHALL BE MAINTAINED BY THE PROPERTY OWNER AND SUCCESSORS AND CONTINUED SO LONG AS THE MAIN USE CONTINUES. FAILURE TO MAINTAIN THE LANDSCAPED BUFFER AREA AS SET OUT ABOVE SHALL BE A VIOLATION OF THESE LAND DEVELOPMENT REGULATIONS.

SIDEWALKS
NO ADDITIONAL CONCRETE SIDEWALK TO BE CONSTRUCTED

PARKING:
PER *LDR 4.16.1 : WAREHOUSING AND STORAGE ONLY*. ONE SPACE FOR EACH 6,000 SQUARE FEET OI FLOOR AREA.
NEW BUILDING AREA: 12,920 S.F.
EXISTING BUILDINGS TO REMOVED: 6,621 S.F
NET NEW BUILDING AREA : 6,299
IF PER *LDR 4.16.1* APPLIED THE ADDITIONAL REQUIRED NUMBER OF PARKING SPACED WOULD BE 105
OR (1) ADDITION PARKING.

PER *LDR 4.5.13.15 FOR OTHER SPECIAL EXCEPTIONS AS SPECIFIED HEREIN. TO BE DETERMINED BY FNDINGS IN THE PARTICULAR CASE,* **ZERO (0) ADDITIONAL PARKING WILL BE PROVIDED.**



PROPOSED 2 GAL OR LARGER PLANTS
PROPOSED 5 GAL OR LARGER SHRUBS

TREES - MINIMUM 4 FEET IN HEIGHT AT PLANTING

LANDSCAPE KEY
1/8" = 1'-0"

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LAKE CITY, FL

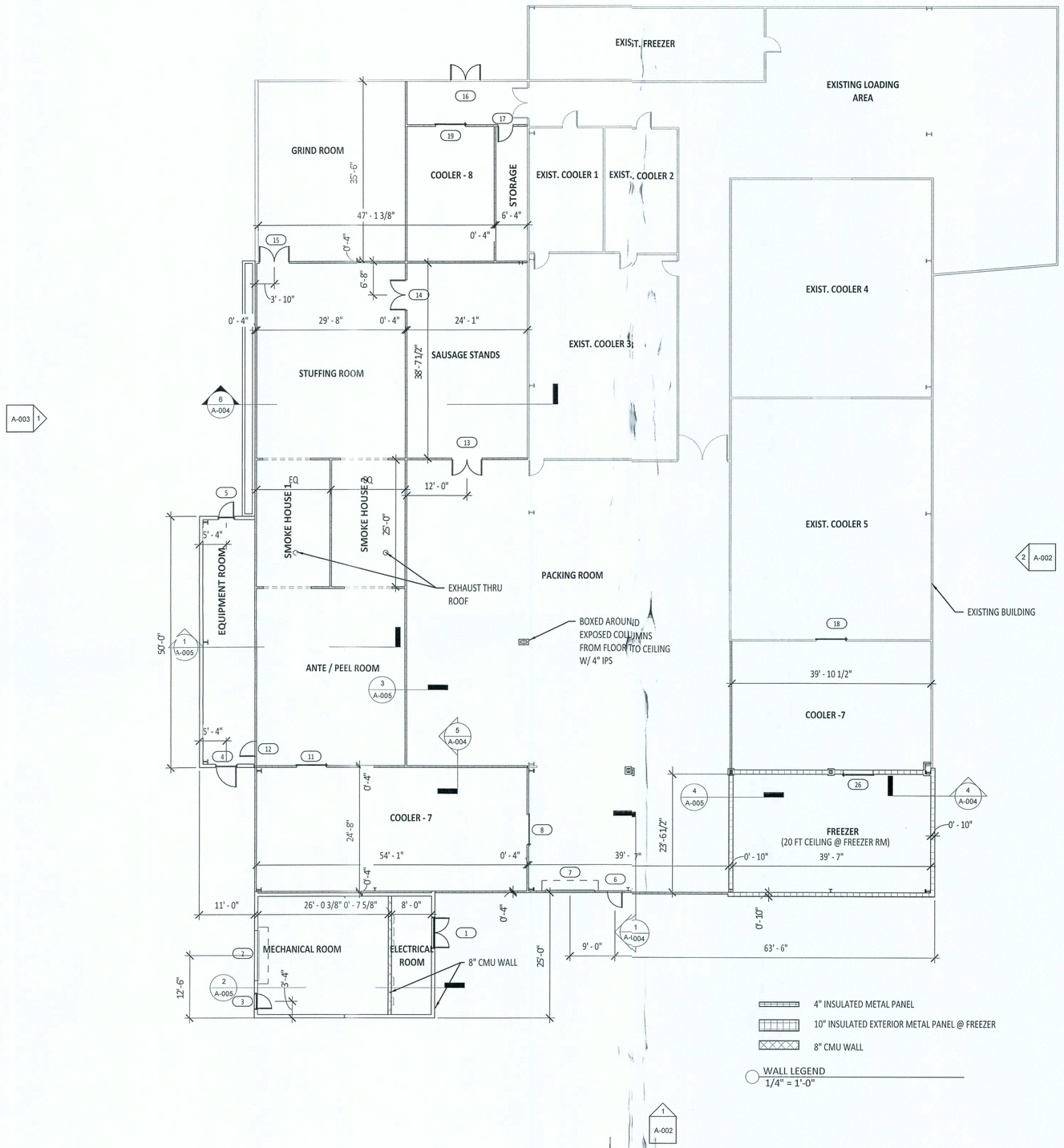
NETTLES SAUSAGES

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GARY GILL PE #51942
416 SW COMMERCE DR 130-M
LAKE CITY, FL 32025 386-590-1242

SITE PLAN

1809-020 | DWG #: C-001 | REV #: 1



1 FLOOR PLAN
3/32" = 1'-0"

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

ROOM SCHEDULE

ROOM NAME	AREA	WALL FINISH	WALL FINISH CLASS	BASE FINISH	FLOOR FINISH	CEILING FINISH	CEILING FINISH CLASS
ANTE / PEEL ROOM	1049 SF	4" IMP			CONCRETE	4" IMP	
ANTE ROOM	Not Placed						
COOLER -7	1008 SF	4" IMP			CONCRETE	4" IMP	
COOLER - 7	1334 SF	4" IMP			CONCRETE	4" IMP	
COOLER - 7	Not Placed	4" IMP			CONCRETE	4" IMP	
COOLER - 8	464 SF						
ELECTRICAL ROOM	189 SF	8" BLOCK			CONCRETE	4" IMP	
EQUIPMENT ROOM	503 SF	8"BLOCK			CONCRETE	4" IMP	
EXIST. COOLER 1	363 SF	4" IMP			CONCRETE	4" IMP	
EXIST. COOLER 2	343 SF	4" IMP			CONCRETE	4" IMP	
EXIST. COOLER 3	1184 SF	4" IMP			CONCRETE	4" IMP	
EXIST. COOLER 4	1722 SF	4" IMP			CONCRETE	4" IMP	
EXIST. COOLER 5	1909 SF	4" IMP			CONCRETE	4" IMP	
EXIST. FREEZER	659 SF	4" IMP			CONCRETE	4" IMP	
EXISTING LOADING AREA	3535 SF	4" IMP			CONCRETE	4" IMP	
FREEZER	932 SF						
GRIND ROOM	1042 SF	4" IMP			CONCRETE	4" IMP	
MECHANICAL ROOM	616 SF	4" IMP			CONCRETE	4" IMP	
PACKING ROOM	Not Placed	4" IMP			CONCRETE	4" IMP	
PACKING ROOM	4870 SF						
PEEL ROOM	Not Placed	4" IMP			CONCRETE	4" IMP	
PRODUCT DISPLAY	Not Placed	4" IMP			CONCRETE	4" IMP	
SAUSAGE STANDS	930 SF	4" IMP			CONCRETE	4" IMP	
SMOKE HOUSE 1	Not Placed	4" IMP			CONCRETE	4" IMP	
SMOKE HOUSE 1	367 SF						
SMOKE HOUSE 2	367 SF						
STORAGE	169 SF	4" IMP			CONCRETE	4" IMP	
STUFFING ROOM	1146 SF	4" IMP			CONCRETE	4" IMP	

DOOR SCHEDULE

Mark	Width	Height	Finish	Description
1	6' - 0"	7' - 0"		DOUBLE EXTERIOR DOOR
2	10' - 0"	12' - 0"		ROLLUP DOOR
3	4' - 0"	7' - 0"		EXTERIOR METAL DOOR
4	4' - 0"	7' - 0"		EXTERIOR METAL DOOR
5	4' - 0"	7' - 0"		EXTERIOR METAL DOOR
6	3' - 0"	7' - 0"		INTERIOR DOOR
7	10' - 0"	10' - 0"		ROLLUP DOOR
8	6' - 0"	7' - 0"		SLIDER
11	6' - 0"	7' - 0"		SLIDER
12	3' - 0"	7' - 0"		INTERIOR DOOR
13	6' - 0"	6' - 8"		IMPACT
14	6' - 0"	6' - 8"		IMPACT
15	6' - 0"	6' - 8"		IMPACT
16	6' - 0"	7' - 0"		DOUBLE EXTERIOR DOOR
17	3' - 0"	7' - 0"		INTERIOR DOOR
18	6' - 0"	7' - 0"		SLIDER
19	6' - 0"	7' - 0"		SLIDER
20	0' - 0"	0' - 0"		
21	0' - 0"	0' - 0"		
24	0' - 0"	0' - 0"		
25	0' - 0"	0' - 0"		
26	6' - 0"	7' - 0"		SLIDER

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PROCESS PLANT EXPANSION

LAKE CITY, FL

NETTLES SAUSAGES

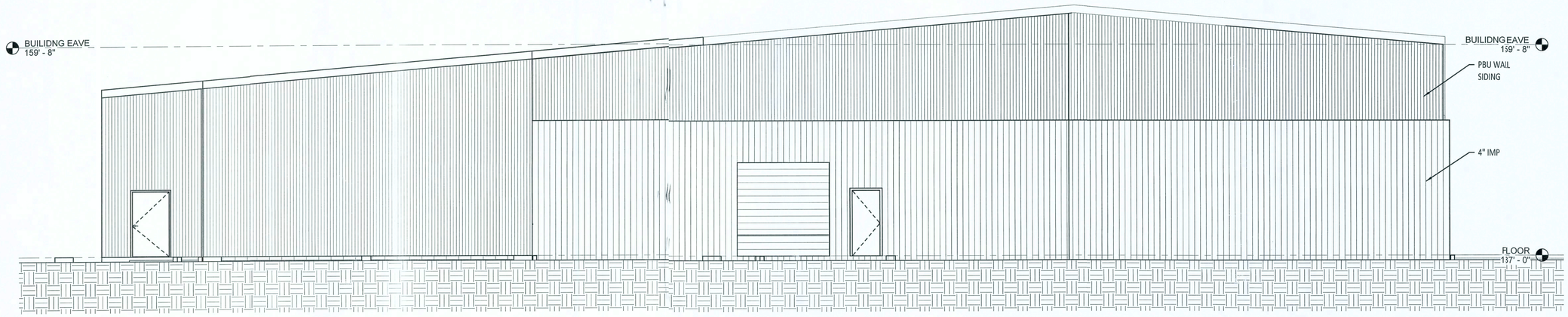
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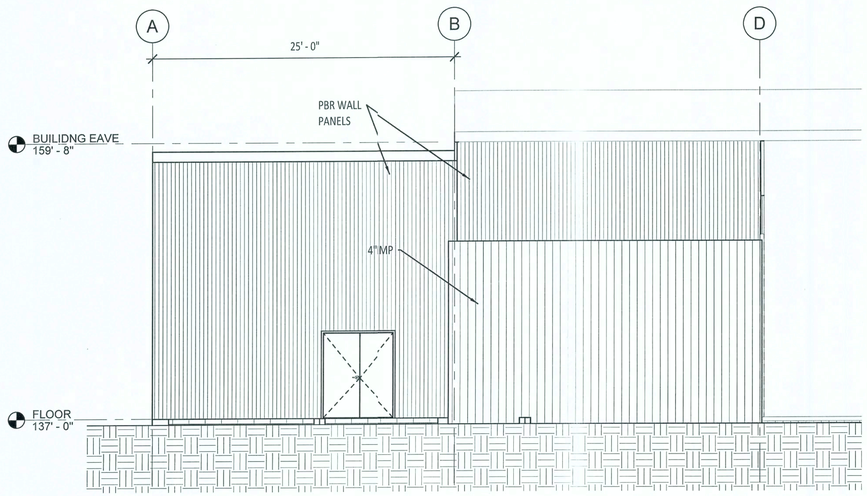
FLOOR PLAN

1809-020	DWG #: A-001	REV #: 1

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19



1 SOUTH
3/16" = 1'-0"



2 EAST
3/16" = 1'-0"

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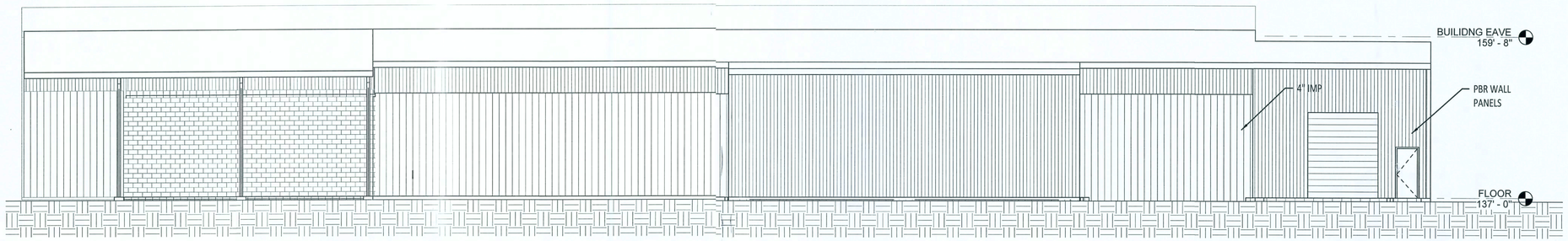
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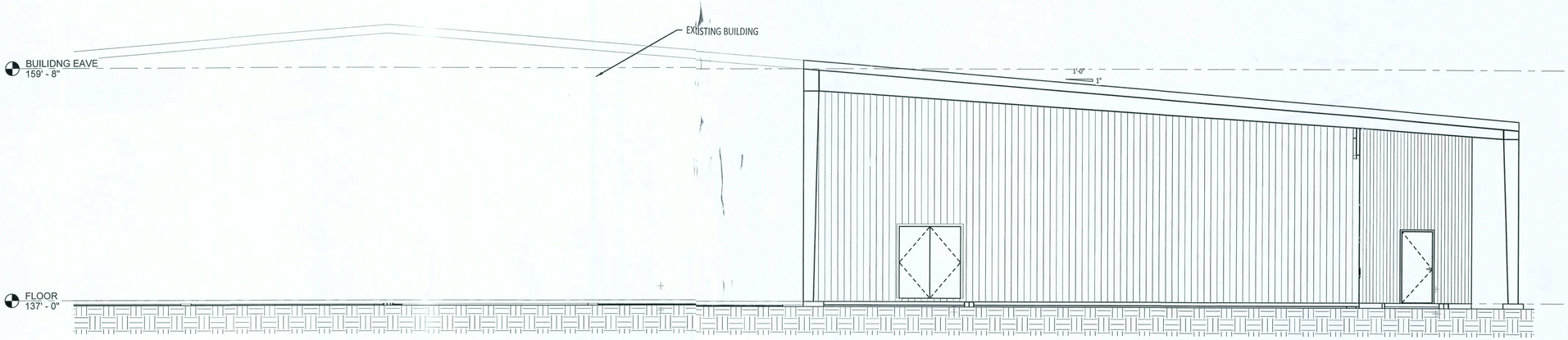
ELEVATIONS

1809-020	DWG #: A-002	REV #: 1

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19



1 WEST
1/8" = 1'-0"



2 NORTH
3/16" = 1'-0"

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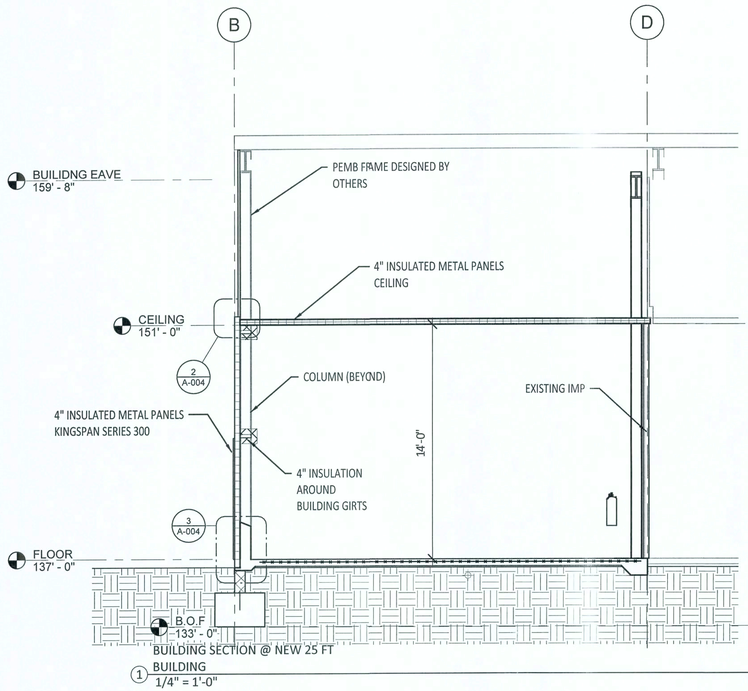
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ELEVATIONS

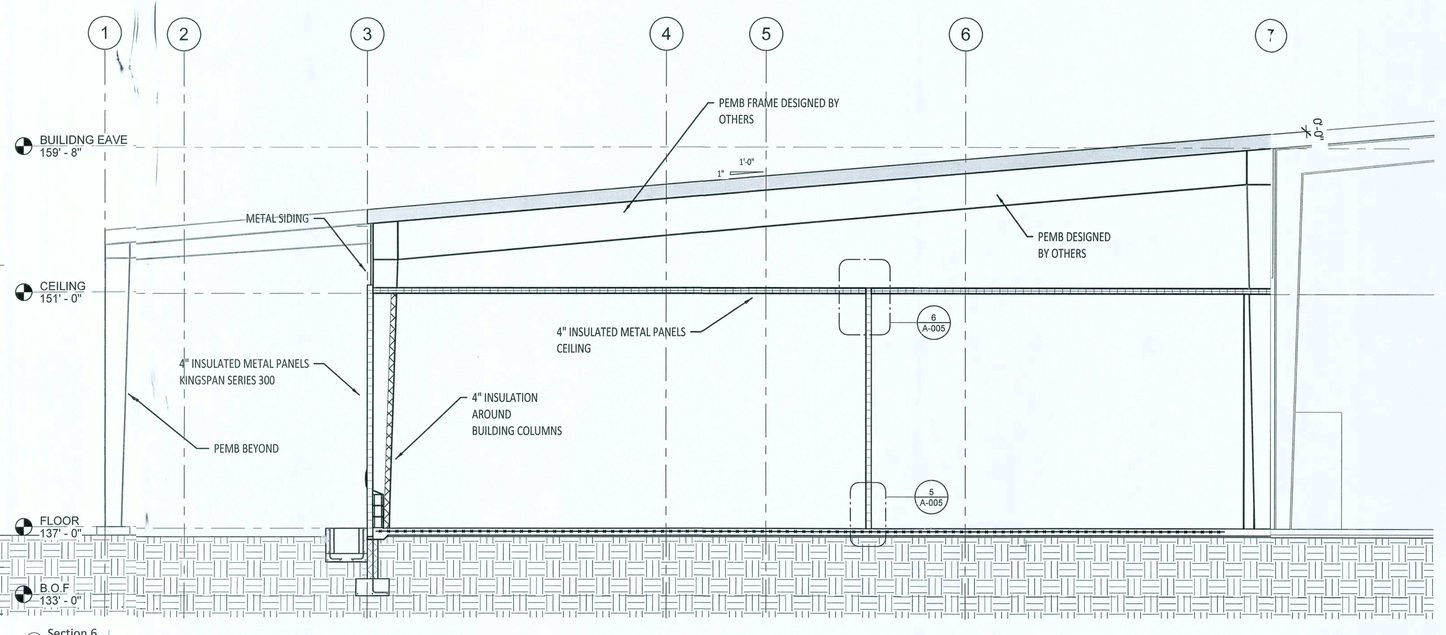
1809-020	DWG #: A-003	REV #: 1

Revision Schedule		
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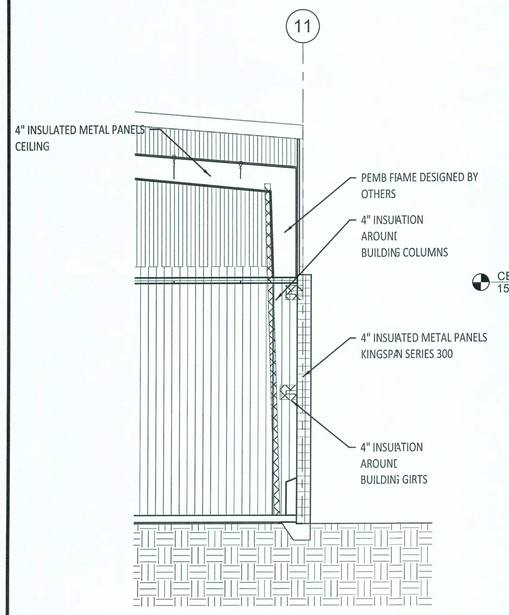


BUILDING SECTION @ NEW 25 FT

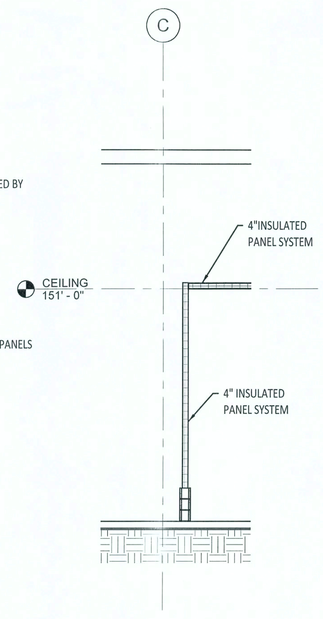
1 BUILDING
1/4" = 1'-0"



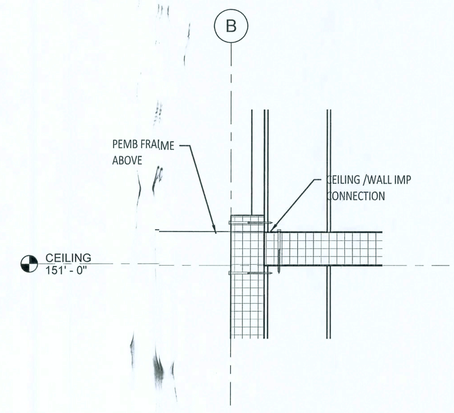
6 Section 6
1/4" = 1'-0"



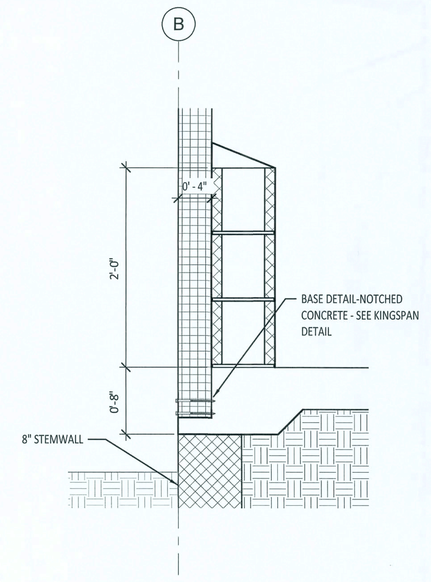
4 SECTION 1
1/4" = 1'-0"



5 SECTION 2
1/4" = 1'-0"



2 DETAIL CEILING WALL
1 1/2" = 1'-0"



3 DETAIL WALL SLAB
1 1/2" = 1'-0"

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PROCESS PLANT EXPANSION

LAKE CITY, FL

NETTLES SAUSAGES

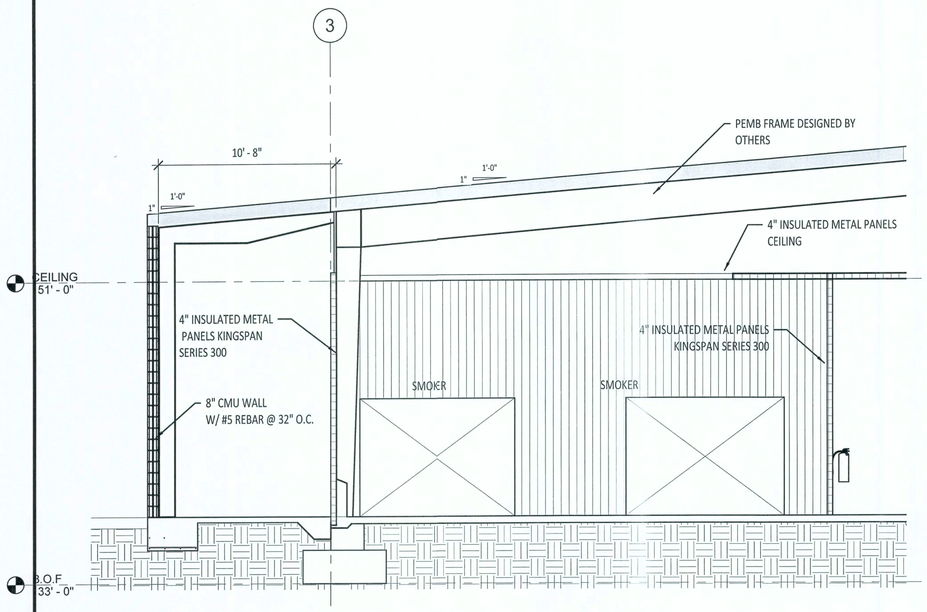
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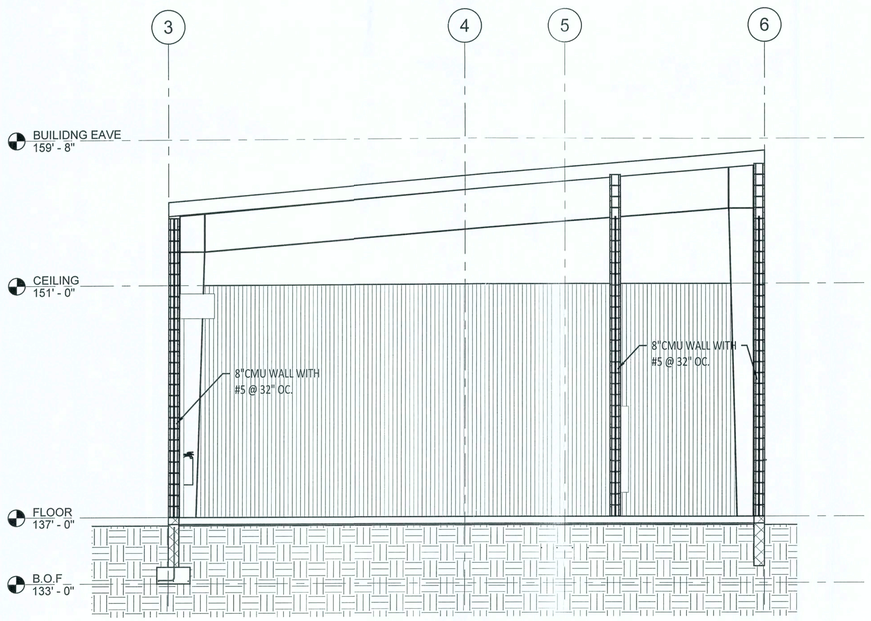
SECTIONS

1809-020	DWG #: A-004	REV #: 1

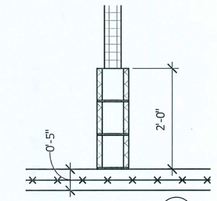
Revision Schecule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19



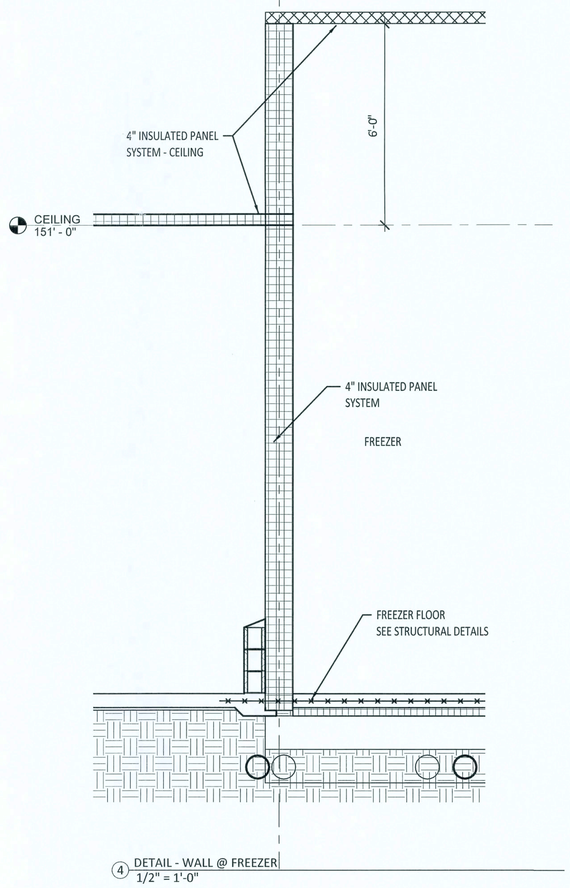
1 SECTION - SMOKE HOUSE
1/4" = 1'-0"



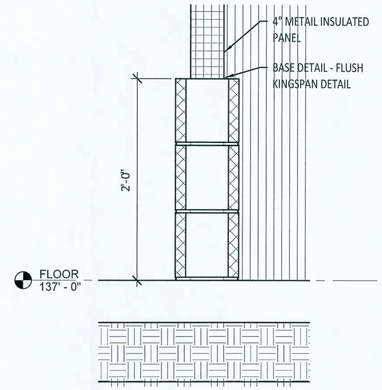
2 SECTION - MECHANIAL ROOM
1/4" = 1'-0"



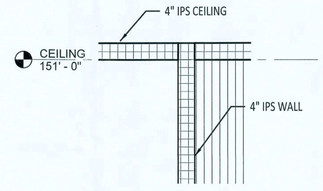
3 DETAIL - IPS INTERIOR
3/4" = 1'-0"



4 DETAIL - WALL @ FREEZER
1/2" = 1'-0"



5 DETAIL - INTERIOR CURB
1 1/2" = 1'-0"



6 DETAIL CEILING AND WALL
3/4" = 1'-0"

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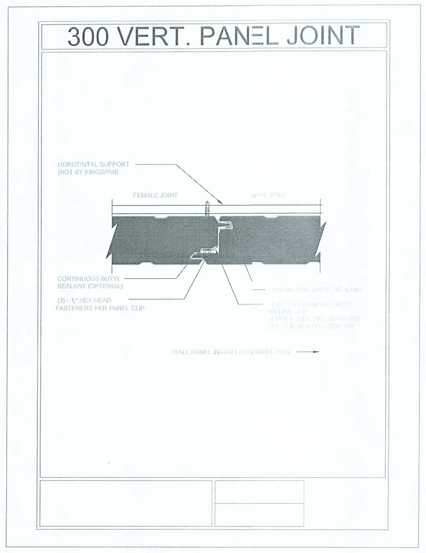
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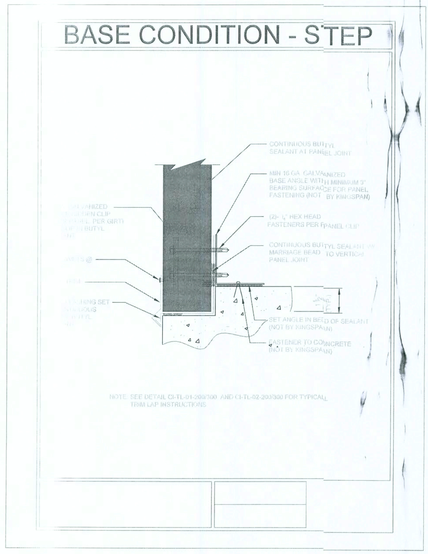
SECTIONS

1809-020	DWG #: A-005	REV #: 1

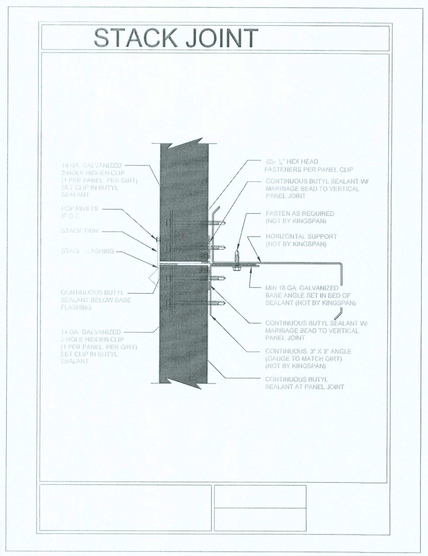
Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19



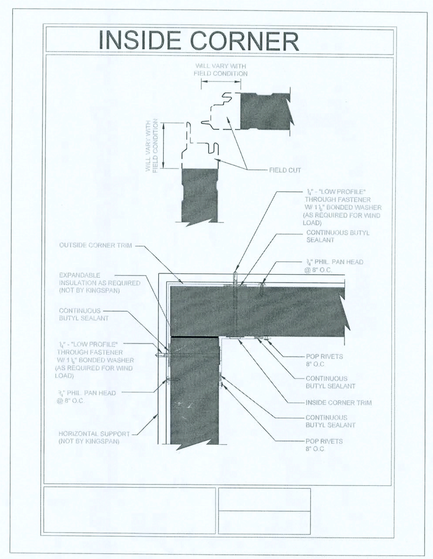
① VERTICAL PANEL
3" = 1'-0"



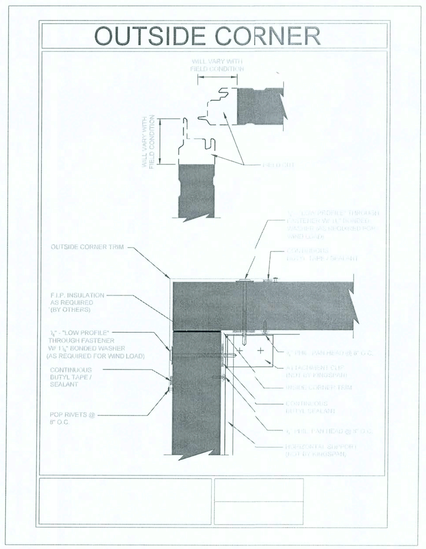
② BASE
3" = 1'-0"



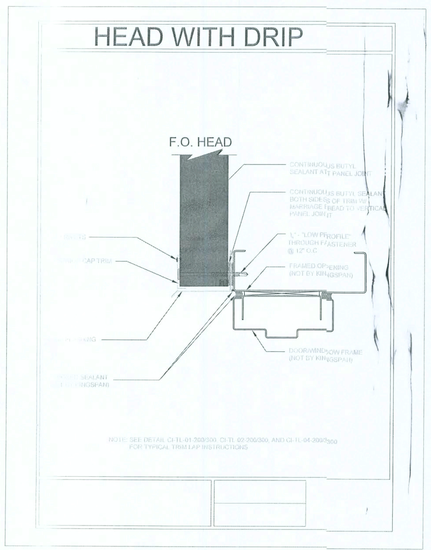
③ INTERMEDIATE
3" = 1'-0"



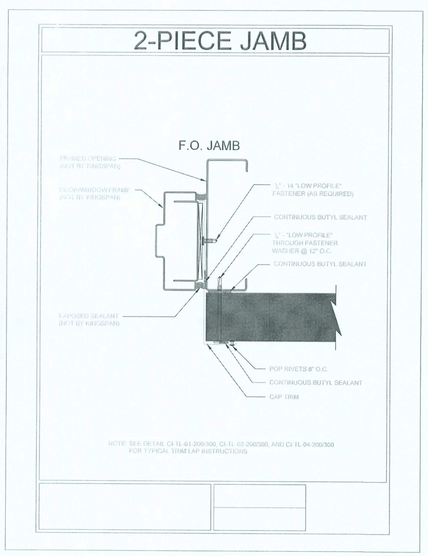
④ Inside Corner
3" = 1'-0"



⑤ Outside Corner
3" = 1'-0"



⑥ HEAD
3" = 1'-0"



⑦ JAMB
3" = 1'-0"

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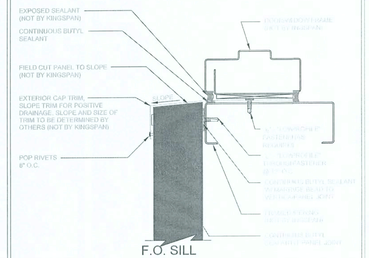
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DETAILS

1809-020	DWG #: A-006	REV #: 1

OVERHEAD DOOR

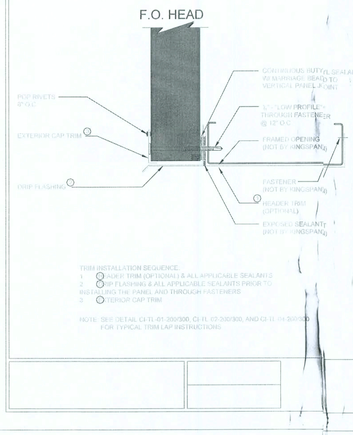
1-PIECE SILL



NOTE: SEE DETAIL CI-TL-01-200/300, CI-TL-02-200/300, AND CI-TL-04-300/300 FOR TYPICAL TRIM LAP INSTRUCTIONS

1 SILL
3" = 1'-0"

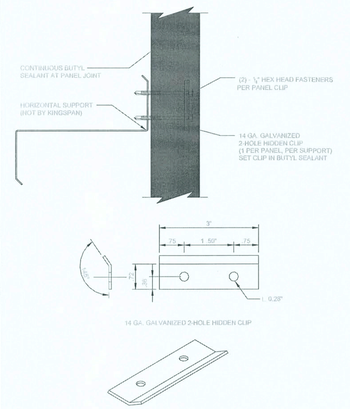
HEAD WITH DRIP



NOTE: SEE DETAIL CI-TL-01-200/300, CI-TL-02-200/300, AND CI-TL-04-300/300 FOR TYPICAL TRIM LAP INSTRUCTIONS

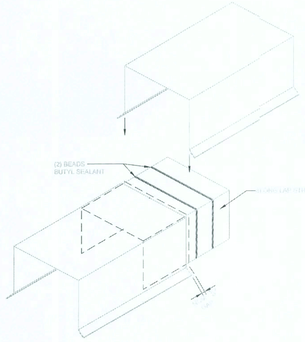
2 OVERHEAD DOOR
3" = 1'-0"

HORIZ. SUPPORT

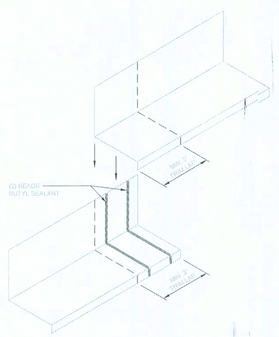


3 HORIZOTAL
3" = 1'-0"

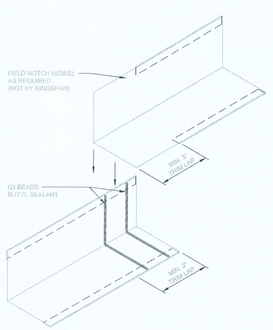
LAP STRIP



"Z" LAP CONDITION



LAP CONDITION W/ HEMS



4 LAP
3" = 1'-0"

Revision Schedule		
Revision Number	Revision Descriptbn	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

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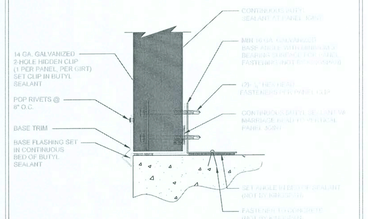
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DETAILS

1809-020	DWG #: A-007	REV #: 1

BASE CONDITION - FLUSH



NOTE: SEE DETAIL CI-TL-01-200/300 AND CI-TL-02-200/300 FOR STEEL TRIM LAP INSTRUCTIONS

1 Drafting 1
3" = 1'-0"

Revision Schedule		
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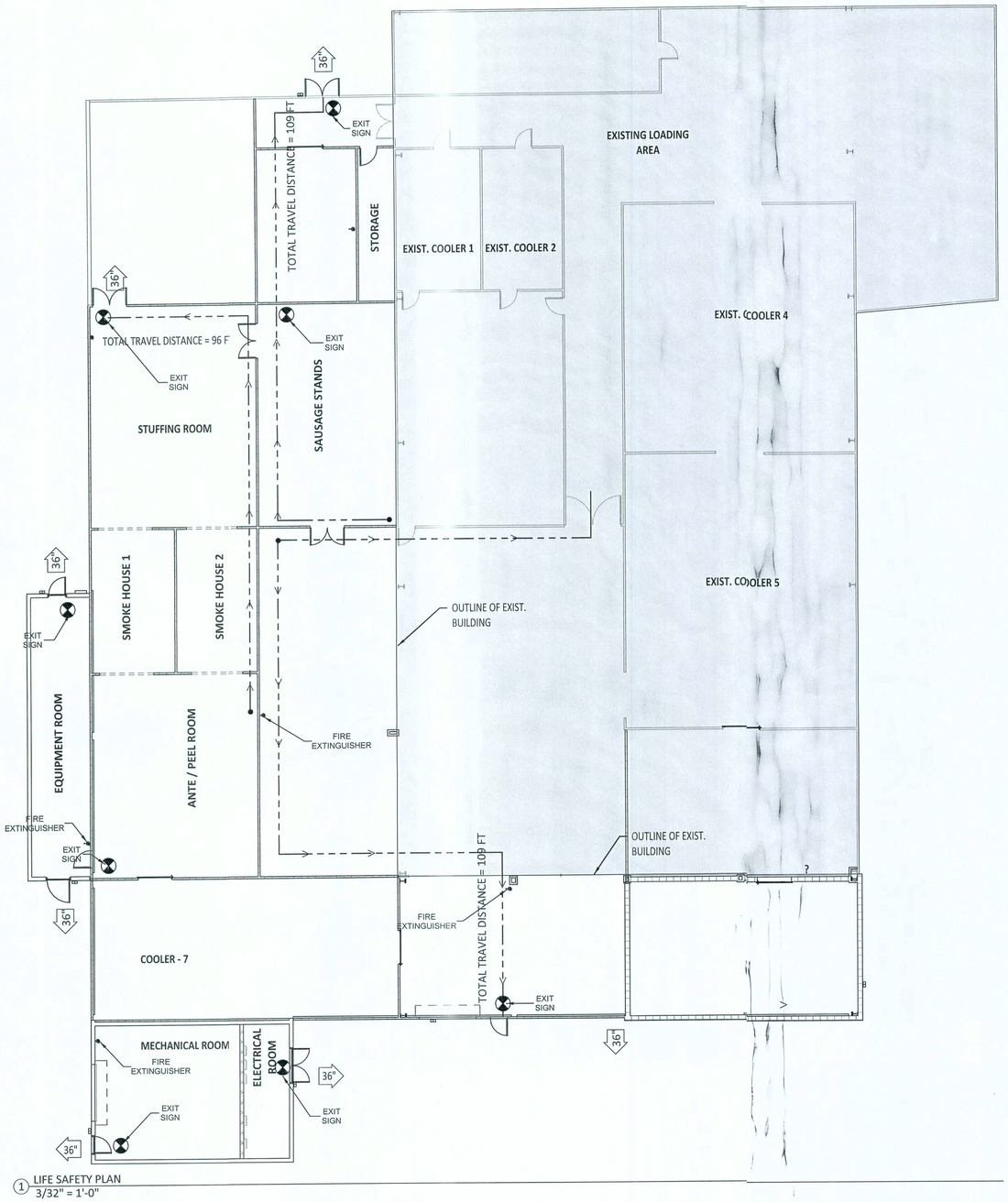
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DETAILS

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Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19



1 LIFE SAFETY PLAN
3/32" = 1'-0"

36" / 0.2" PER OCCUPANTS = 180 OCCUPANTS

72" / 0.2" PER OCCUPANTS = 360 OCCUPANTS

OCCUPANT LOAD ON BUILDING
WAREHOUSE AREA = 6792 S.F. / 500 = 14 OCCUPANTS

TOTAL OCCUPANT LOAD = 14 OCCUPANTS

2 LIFE SAFETY INFORMATION
1/4" = 1'-0"

2A:10B:C PORTABLE FIRE EXTINGUISHER - 5 REQ'D

EXIT SIGN - 10 REQ'D

LIFE SAFETY LEGEND
1/4" = 1'-0"

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LIFE SAFETY

1809-020	DWG #: A-009	REV #: 1

GENERAL STRUCTURAL NOTES

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

GENERAL NOTES:

1. ALL CONSTRUCTION AND DESIGN SHALL CONFORM TO THE 201' FBC (6TH ED)
2. THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE AWNINGS INTO THEIR SHOP DRAWINGS AND CONSTRUCTION.
3. THE STRUCTURAL DRAWINGS ARE INTENDED FOR THE STRUCTURE TO ACT AS WHOLE ONCE CONSTRUCTION IS COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SAFETY AND STABILITY (I,E, TEMPORARY BRACING IF REQUIRED) DURING CONSTRUCTION AS A RESULT OF CONSTRUCTIONS METHODS AND SEQUENCES.
4. THE CONTRACTOR SHALL FIELD VERITY ALL EXISTING STRUCTURE. THE ENGINEER SHALL BE NOTIFIED ON ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS.
5. DESIGN CRITERIA
   A. CODE: 2017 FBC (6TH ED)
   B. LOADS AND DESIGN CRITERIA: THE FOLLOWING LOADS AND CRITERIA WERE USED IN ADDITION T THE DEAD LOAD OF THE STRUCTURE.

LIVE LOADS:

ROOF	20 PSF
OFFICE FLOORS	50 PSF
LOBBIES:	100 PSF

SOIL CRITERIA: PER GEOTECHNICAL REPORT BY XXXX, DATED XXXXX

ALLOWABLE SOIL BEARING	2000 PSF
PASSIVE PRESSURE	150 PCF
FRICTION COEFFICIENT	0.35

WIND CRITERIA:

WIND SPEED:	130 MPH (3-SECOND GUST)
CATEGORY:	II
EXPOSURE	B
INTERNAL PRESSURES:	+/- 0.18
CLADDING AND COMPONENTS	
ZONE 1	21.3 / -34.15 PSF
ZONE 2	21.5 / -59.45 PSF
ZONE 3	21.5 / -69.75 PSF
ZONE 4	37.32 / -40.48 PSF
ZONE 5	37.32 / 49.96 PSF

CONCRETE AND REINFORCING STEEL:

1. ALL CONCRETE DESIGNED PER CURRENT EDITION OF ACI 318
2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
   A. FOUNDATION WALLS, PIERS, AND FOOTINGS 3000 PSI
   B. SLAB ON CARE: 3000 PSI
   C. ALL OTHER CONCRETE 3000 PSI
3. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NORMAL AIR DENSITY OF 145 PSF.
4. 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 PREPARATIONS OF AFFECTED REINFORCEMENT SHOP DRAWINGS
5. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HOURS
6. CONCRETE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONRETE SPECIFIED SHALL BE SUBMITTED FOR ARCHITECT / ENGINEER REVIEW 30 DAYS PRIOR TO PLACEMENT OF CONCRETE
7. ALL REINFORCING STEEL ASTM A615 GRADE 60, ALL WELDED WIRE FABRIC ASTM A185

REINFORCING STEEL:

1. ALL BAR REINFORCEMENT SHALL BE CONFORM TO ASTM 615 GRADE 60.
2. WELD WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185
3. CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SHALL BE CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAIL).
   A. UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTINGOR WALL BOTTOM).....3"
   B. SLAB 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.
4. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON DRAWS
5. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATION, AS DETERMINED BY THE ARCHITECT / ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM PERMITTED BY APPLICABLE CODES.
6. ALL WORKMANSHIP AND MATERIAL SHALL BE CONFORMED TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315)
7. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER OR OWNER TESTING AGENCY BEFORE CONCRETE IS PLACED.
8. WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPLICES AND HOOKED AT CONTINUOUS ENDS.
9. WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6" MIN.
10. 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 A318
11. SLABS AND WALLS SHALL NOT BE SLEEVED OR BOXED OUT OR HAVE THEIR REINFORCEMENT INTERRUPTED EXCEPT SPECIFICALLY NOTED ON THE DRAWINGS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE DETAILS.
12. SUBMIT CHECKED SHOP DRAWINGS TO THE ARCHITECT / ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REINFORCEMENT.
13. BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT WITH EXPOSE SURFACE SHALL BE GALVANIZE AND PLASTIC TIPPED.

ADDITION CONCRETE ITEMS:

SLAB AND WALL REINFORCING LAP SPLICE LENGTHS

LAP SLICE LENGTHS FOR REINFORCING IN 4000 PSI CONCRETE AS FOLLOWS

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

LAP SPLICE LENGTHS FOR REINFORCING IN 3000 PSI CONCRETE AS FOLLOWS

BAR SIZE	TENSION SPLICE TOP	TENSION SPLICE OTHER	DEVELOPMENT LENGTH
#3	21"	15"	13"
#4	29"	20"	17"
#5	35"	25"	21"
#6	46"	33"	27"
#7	63"	45"	37"
#8	83"	59"	49"

NOTES:
1. LAPPED SPLICE LENGTHS BASED ON ASTM A-615, GRADE 60, REBAR
2. REINFORCING BARS CLASSIFIED AS TOP BARS WHEN MORE THAN 12" ON CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.
3. COMPRESSION SPLICES SHALL PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS
4. TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS, AND WALLS UNLESS OTHERWISE NOTED.
5. WHEN LAPPING LARGER BARS WITH SMALLER BARS, 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 REINFORCING BARS AT CENTER OF SUPPORTING ELEMENT WITH COMPRESSION SPLICES.

FLOOR SLABS:

1. FLOOR SLABS SHALL BE 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.
2. 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. STRUCTURAL FILL SHALL CONSIST OF AN INORGANIC NON-PLASTIC, GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE 200 MESH SIEVE.

POST-INSTALLED REBAR:

1. POST-INSTALLED REINFORCING BAR CONNECTIONS SHALL BE DESIGNED PER THE ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318). POST-INSTALLED REINFORCING BAR CONNECTIONS SHALL BE CONSIST OF HILTI EPOXY SYSTEMS OR EQUAL
2. THE DESIGN OF STRAIGHT POST-INSTALLED REINFORCING BARS SHALL BE PREFORMED PER THE DEVELOPMENT AND SPLICE REQUIREMENTS OF THE ACI 318. THE POST-INSTALLED REINFORCING BAR SYSTEM IS AN ALTERNATIVE TO CAST-IN-PLACE REINFORCING BARS GOVERNED BY ACI 318 AND IBC CHAPTER 19.
3. THE EPOXY SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE ICC-ES ACCEPTANCE CRITERIA FOR POST-INSTALLED EPOXY ANCHORS IN CONCRETE ELEMENTS (ACI 308)), TABLE 3.8 TECHNICAL DATE SHALL BE PUBLISHED IN AN ICC-ES EVALUATION SERVICE REPORT SHOWING COMPLIANCE WITH IBC.
4. POST-INSTALLED REINFORCING BAR INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURED PRINTED INSTALLATION INSTRUCTION (MP1), AS INCLUDED IN THE ANCHOR PACKAGING.

COMPACTION REQUIREMENTS

1. SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT +/- 2% OPTIMUM MOISTURE CONTENT:

MATERIAL	MINIMUM PERCENT COMPACTION
STRUCTURAL FILL,IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

STRUCTURAL STEEL:

1. MATERIALS SHALL BE AS FOLLOWS:

W SHAPES	ASTM 992, Fy = 50 KSI
OTHER SHAPES AND PLATES	ASTM A36, Fy = 36 KSI
HSS SQUARE AND RECTANGULAR SHAPES	ASTM 500 GRADE B, Fy = 46 KSI
HSS ROUND SHAPES	ASTM 500 GRADE B, Fy = 42 KSI
STEEL PIPES	ASTM A53 GRADE B, Fy = 36 KSI
WELDING ELECTRODES	AWS A.5.1 OR A5.5 SERIES E70
HIGH STRENGTH BOLTS	ASTM F3125, GRADE A325, GALVANIZED
ANCHOR RODS	GRADE 36 ASTM A496
HEADED ANCHOR BOLTS	ASTM F1554 GRADE 55, GALVANIZED
WELDED STUDS	ASTM A108
DEFORMED BARS	ASTM A496
PROTECTION	ALL STEEL FASTENERS, STRUCTURAL MEMBERS, GUARD / HANDRAIL COMPONENTS, AND GRATING ARE TO BE GALVANIZED.

2. DESIGN PER MOST CURRENT EDITION OF THE AISC " MANUAL OF STEEL CONSTRUCTION ALLOWABLE DESIGN" UNLESS OTHERWISE NOTED.
3. PROVIDE STRUCTURAL STEEL HAVING A MINIMUM YIELD STRENGTH OF 36 KSI THAT MEETS ASTM 36 STANDARD SPECIFICATION FOR STRUCTURAL STEEL. REFER TO STEEL MATERIAL SPECIFICATIONS ABOVE FOR SPECIFIC ASTM DESIGNATION.
4. SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING ERECTION DRAWING PLANS, FABRICATED ASSEMBLIES AND ACCESSORIES SHOWING MEMBERS DESIGNATION SIZES AND CONNECTIONS.
5. MAKE CONNECTIONS WITH HIGH STRENGTH BOLTS OR WELDS USING E70 ELECTRODES. DETAIL BOLTED SHEAR CONNECTIONS FOR MAXIMUM END REACTION OF MEMBER.
6. WHERE BEAMS BEAR ON WOOD PROVIDE STEEL BEARING PLATES AND ANCHOR BOLTS PROVIDE TEMPORARY BRACING TO HOLD STRUCTURAL STEEL SECURELY IN POSITION DURING ERECTION. DO NOT REMOVE BRACING UNTIL PERMANENT BRACING IS INSTALLED
7. STRUCTURAL STEEL SHALL BE FABRICATED AND ASSEMBLED IN ACCORDANCE WITH THE APPROPRIATE PARTS OF THE ASTM A-385..
8.. DESIGNED OF BOLTED OR WELDED FRAMED BEAM CONNECTIONS, NOT SPECIFICALLY DETAILED OR CALLED FOR ON DRAWINGS, SHALL BE BASED ON
   ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY FOR THE SHAPE, SPAN AND STEEL SPECIFICATION OF THE BEAM IN QUESTION, AS TABULATED IN THE TABLES FOR ALLOWABLE LOADS ON BEAMS, PART 2, AISC MANUAL OF STEEL CONSTRUCTION, WITH A MINIMUM CONNECTION FOR THE GIVEN SHAPE AS PROVIDED IN TABLES I AND III, FRAMED BEAM CONNECTIONS, PART 4. AISC MANUAL OF STEEL CONSTRUCTION
9. SHOP CONNECTIONS SHALL BE BOLTED OR WELDED.
10. HOLES SHALL BE 13/16" DIAMETER FOR 3/4" DIAMETER BOLTS UNLESS OTHERWISE NOTED.
11. ALL BOLTED SHOP AND FIELD STRUCTURAL CONNECTIONS SHALL BE MADE USING ASTM A-325 HOT DIPPED GALVANIZED HIGH-STRENGTH BOLTS IN ACCORDANCE WITH TYPE 'N' CONNECTION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
12. ALL BOLTED SHOP AND FIELD MISCELLANEOUS CONNECTIONS USING 3/8" DIA AND SMALLER BOLTS SHALL BE MADE WITH ASTM A-307 BOLTS AND NUTS, HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-153.
13. WELDING SHALL BE IN ACCORDANCE WITH SECTION J2 OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (14th EDITION OF THE AISC STEEL CONSTRUCTION MANUAL).
14. STRUCTURAL STEEL SHALL BE FABRICATED AND ASSEMBLED IN ACCORDANCE WITH APPROPRIATE PARTS OF ASTM A-385 AND HOT-DIP GALVANIZED IN ACCORDANCE WITH OWNERS REQUIREMENT.

PRE-ENGINEERED METAL BUILDING FRAME:

1. THE COMPLETE DESIGN OF METAL BUILDING INCLUDING ALL COMPONENTS SHOWN OR NOTE SHOWN ON THE DRAWINGS SHALL BE ACCOMPLISHED BY THE BUILDING MANUFACTURER. SEE THE ARCHITECTURAL DRAWINGS FOR EAVE HEIGHTS AND WALL CONDITIONS.
2. THE DESIGN SHALL BE MADE BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE PROJECT IS CONSTRUCTED.
   THE BUILDING AND ALL OF ITS COMPONENTS SHALL BE DESIGNED FOR THE FOLLOWING DEAD AND LIVE LOADS
   A. ACTUAL WEIGHT OF STEEL STRUCTURE
   B. 5 PSF COLLATERAL LOAD IN ADDITION TO ACTUAL WEIGHT
   C. 20 PSF ROOF LIVE LOAD
   D. ANY ADDITIONAL LOADS AND REACTIONS THAT ARE SHOWN OR NOTED ON THE DRAWINGS, SEE PLAN NOTES.
   E. WIND LOADS AS REQUIRED BY CURRENT ADDITION OF THE FLORIDA BUILDING CODE
3. RIGID FRAME COLUMN BASES SHALL BE DESIGNED FOR A PIN CONNECTION,
4. THE DEFLECTION OF GIRTS AND PURLINS SHALL BE LIMITED TO 1/180 OF THE SPAN. DEFLECTION OF RIGID FRAMES SHALL BE LIMITED TO 1/360 OF THE SPAN. DEFLECTIONS SHALL BE BASED ON TOTAL LOAD (DEAD LOAD PLUS LIVE LOAD).
5. THE PREFABRICATED METAL BUILDING SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE ABOVE NOTES. THE PLANS AND DETAILS, SPECIFICATIONS TO BE IN ACCORDANCE WITH THE RECOMMENDED DESIGN PRACTICES MANUAL OF THE METAL BUILDING MANUFACTURES ASSOCIATION (MBMA) AND IN ACCORDANCE WITH MBMA SPECIFICATIONS

MASONRY:

1. ALL MASONRY UNITS SHALL COMPLY WITH ASTM C 90 WITH A COMPRESSION STRENGTH OF 1900 PSI (NET AREA).
2. F'm = 1500 PSI
3. MORTAR SHALL BE TYPE S.
4. GROUT : F'c = 2000 PSI
5. CELLS CONTAINING REBAR SHALL BE GROUTED SOLID FROM BOTTOM TO THE TOP OF WALL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
6. ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID.
7. ALL VERTICAL REBAR SHALL BE IN PLACE AND SECURED WITH REBAR POSITIONERS PRIOR TO GROUTING.
8. CELLS CONTAINING EXPANSION ANCHORS SHALL BE GROUTED SOLID. UNLESS OTHERWISE NOTES MASONRY CELLS SHALL BE GROUTED IN ACCORDANCE WITH FBC (MAXIMUM 5 FOOT GROUT LIFTS).
9. LAP REBAR 48 BAR DIAMETERS (12" MIN) UNLESS NOTED OTHERWISE. ALL HORIZONTAL REINFORCING IN BOND BEAMS SHALL BE CONTENTIOUS AROUND CORNERS OR HAVE BENT (CORNER) BARS OF THE SAME SIZE AND A LAP AS NOTED ABOVE. VERTICAL STEEL SHALL CONTINUE THROUGH BOND BEAMS. PROVIDE STANDARD TRUSS TYPE JOINT REINFORCING AT 16" O.C.USE PREFABRICATED CORNERS AND TEES AT ALL WALL CORNERS AND INTERSECTIONS RESPECTIVELY
10. ALL MASONRY WALL CONFIGURATIONS INCLUDING WALL OPENNGS SHALL BE COORDINATED WITH CIVIL, MECHANICAL.PLUMBING, ELECTRICAL, AND DRAWING FROM ALL OTHER DISCIPLINES.

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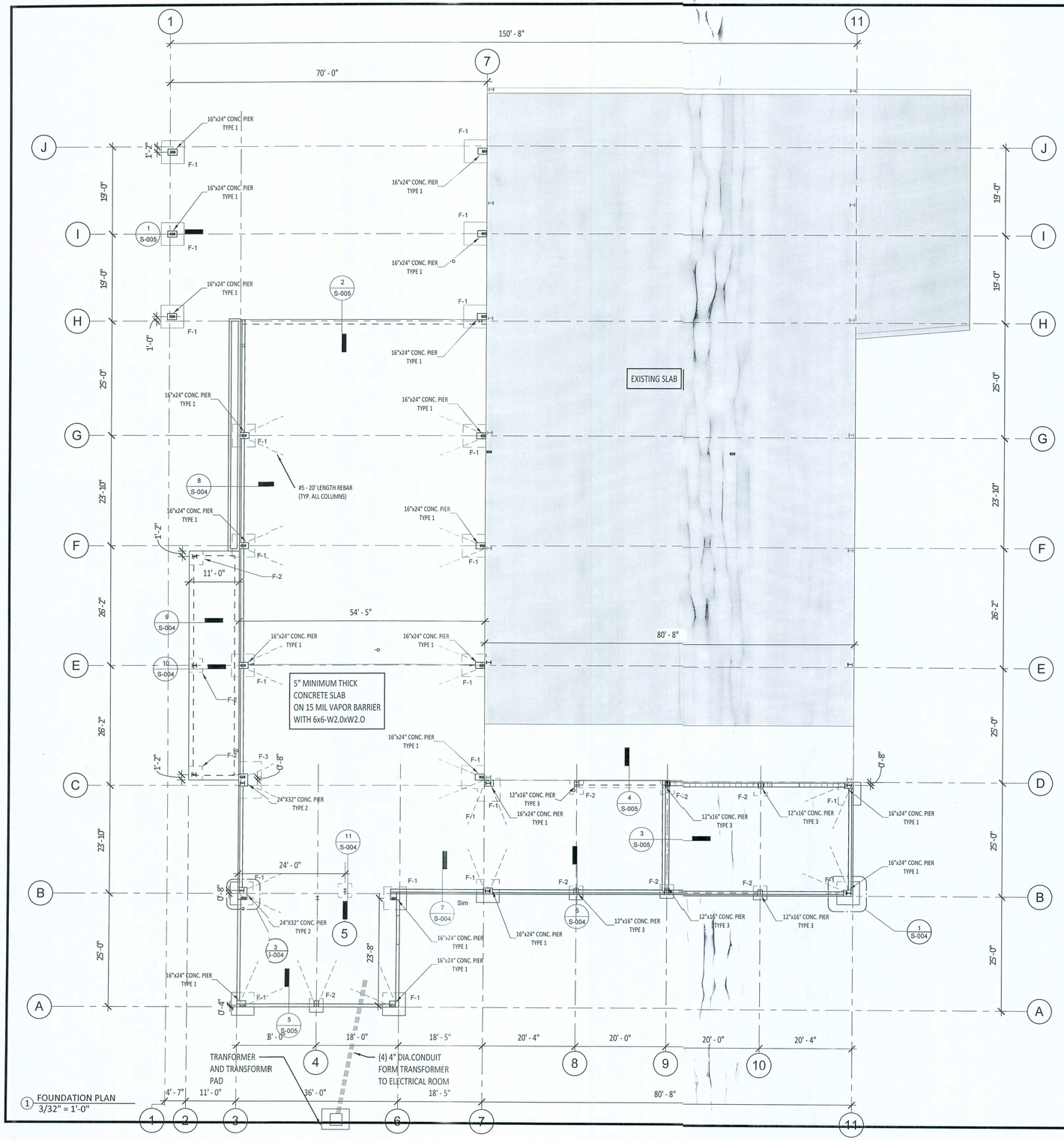
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APPRD BY:	Approver

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STRUCTURAL NOTES

1809-020	DWG #: S-001	REV #: 1



1 FOUNDATION PLAN
3/32" = 1'-0"

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

CONCRETE PIERS SCHEDULE

Column Location Mark	Family	Type	Length	Base Level	Top level	Volume
A-3	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
A-4	CONCRETE PIERS	12"x16" CONC. PIER TYPE 3	2' - 0"	B.O.F	FLOOR	2.67 CF
A-6	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
B-3	CONCRETE PIERS	24"X32" CONC. PIER TYPE 2	2' - 0"	B.O.F	FLOOR	10.56 CF
B-6	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
B-7	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	3.64 CF
B-8	CONCRETE PIERS	12"x16" CONC. PIER TYPE 3	2' - 0"	B.O.F	FLOOR	2.67 CF
B-9	CONCRETE PIERS	12"x16" CONC. PIER TYPE 3	2' - 0"	B.O.F	FLOOR	2.25 CF
B-10	CONCRETE PIERS	12"x16" CONC. PIER TYPE 3	2' - 0"	B.O.F	FLOOR	2.67 CF
B-11	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
C(1' - 10")-6(17' - 5")	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
C-3	CONCRETE PIERS	24"X32" CONC. PIER TYPE 2	2' - 0"	B.O.F	FLOOR	10.67 CF
C-6(19' - 5")	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
D-8	CONCRETE PIERS	12"x16" CONC. PIER TYPE 3	2' - 0"	B.O.F	FLOOR	2.67 CF
D-9	CONCRETE PIERS	12"x16" CONC. PIER TYPE 3	2' - 0"	B.O.F	FLOOR	2.46 CF
D-10	CONCRETE PIERS	12"x16" CONC. PIER TYPE 3	2' - 0"	B.O.F	FLOOR	2.67 CF
D-11	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	4.99 CF
E-3	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
E-7	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
F-3	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
F-7	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
G-3	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
G-7	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	2' - 0"	B.O.F	FLOOR	5.33 CF
H(1' - 0")-1	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	3' - 0"	B.O.F	FLOOR	8.00 CF
H(1' - 0")-7	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	3' - 0"	B.O.F	FLOOR	8.00 CF
I-1	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	3' - 0"	B.O.F	FLOOR	8.00 CF
I-7	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	3' - 0"	B.O.F	FLOOR	8.00 CF
J(-1' - 1 3/4")-7	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	3' - 0"	B.O.F	FLOOR	8.00 CF
J(-1' - 2")-1	CONCRETE PIERS	16"x24" CONC. PIER TYPE 1	3' - 0"	B.O.F	FLOOR	8.00 CF
Grand total						159.90 CF

FOUNDATION SCHEDULE

FOUNDATION MARK	SIZE	REBAR	ANCHOR BOLT SIZE	EMBED.
F-1	5'-0"x5'-0"x24"	#5 BOTTOM @ 12"O.C.E.W	3/4"	12"
F-2	3'-0"x3'-0"x24'	#5 BOTTOM @ 12"O.C.E.W	3/4"	12"
F-3	8'-0"x3'-0"x24"	#5 BOTTOM @ 12"O.C.E.W	3/4"	12"

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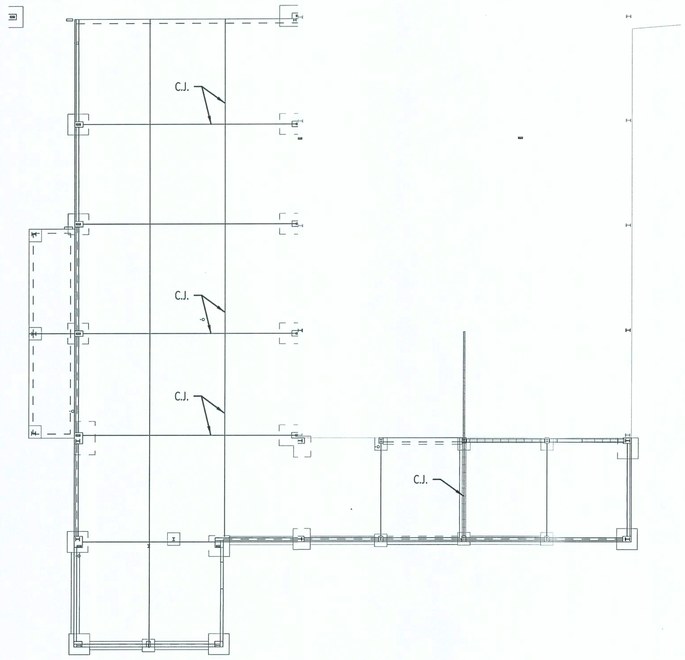
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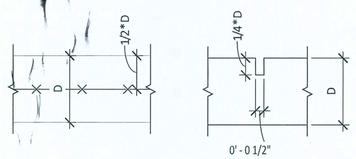
FOUNDATION PLAN

1809-020 | DWG #: S-002 | REV #: 1

Revision Schedule		
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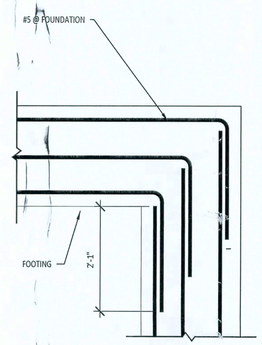


1 CONTROL JOINTS
1/16" = 1'-0"

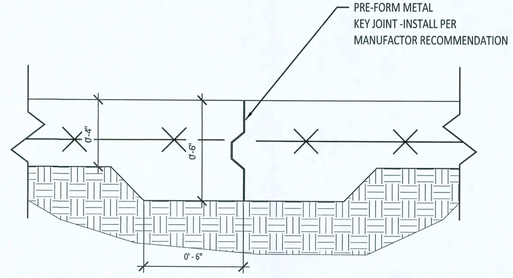


SLAB THICKNESS, IN.	LESS THAN 3/4-INCH AGGREGATE; SPACING, FT	LARGER THAN 3/4-INCH AGGREGATE; SPACING, FT	SLUMP LESS THAN 4 INCHES:SPACING, FT
4	8	10	12
5	10	13	15
6	12	15	18

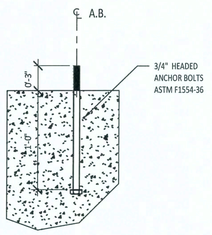
6 SLAB AND JOINT DETAIL
3/4" = 1'-0"



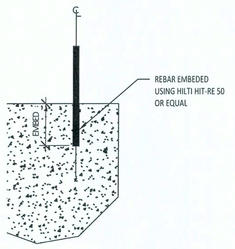
3 FOOTING SPLICE
3/4" = 1'-0"



2 CONSTRUCTION JOINT
3" = 1'-0"



4 HEADED ANCHOR BOLT DETAIL
1 1/2" = 1'-0"



5 POST-INSTALLED REBAR
1 1/2" = 1'-0"

Tension Loads and Development Lengths for Rebar Dowels in Normal-Weight Concrete

Rebar Size No. (mm)	Drill Bit Dia. in.	Embed. Depth in. (mm)	f'c ≥ 2000 psi (13.8 MPa) Concrete			f'c ≥ 4000 psi (27.6 MPa) Concrete			ASTM AS15 Grade 60 Rebar	
			Ultimate Bond Strength lbs. (kN)	Embed. To Develop Yield Strength in. (mm)	Embed. To Develop Tensile Strength in. (mm)	Ultimate Bond Strength lbs. (kN)	Embed. To Develop Yield Strength in. (mm)	Embed. To Develop Tensile Strength in. (mm)	Yield Strength lbs. (kN)	Tensile Strength lbs. (kN)
#4 (12.7)	½	4¼ (108)	16,480 (73.3)	4¼ (108)	5¼ (133)	18,320 (81.5)	4¼ (108)	4¼ (108)	12,000 (53.4)	18,000 (80.1)
		6 (152)	19,360 (86.1)			19,360 (86.1)				
#5 (15.9)	¾	5 (127)	24,600 (109)	5 (127)	5¾ (146)	26,040 (116)	5 (127)	5½ (140)	18,600 (82.7)	27,900 (124)
		9⅜ (238)	48,380 (215)			48,380 (215)				
#6 (19.1)	⅞	6¾ (171)	38,380 (171)	6¾ (171)	7 (178)	40,500 (180)	6¾ (171)	6¾ (171)	26,400 (117)	39,600 (176)
		11¾ (286)	65,020 (289)			65,020 (289)				
#7 (22.2)	1	7¾ (197)	47,760 (212)	7¾ (197)	8¾ (222)	47,760 (212)	7¾ (197)	8¾ (222)	36,000 (160)	54,000 (240)
		13⅛ (333)	81,560 (363)			81,560 (363)				

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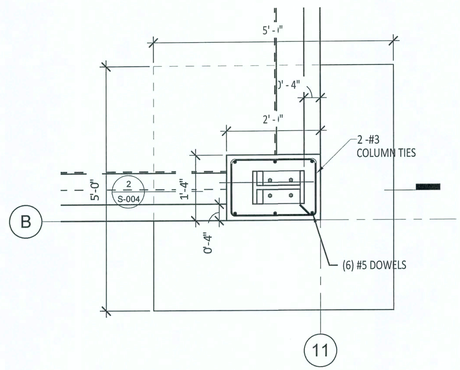
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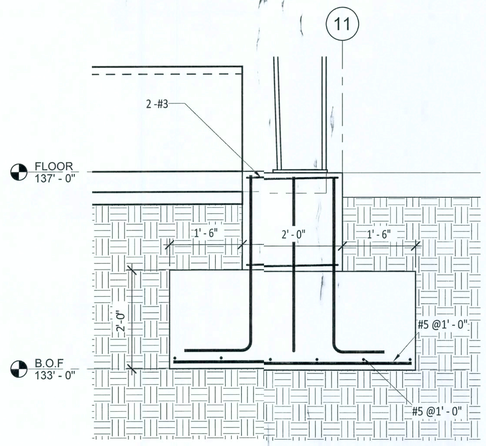
FOUNDATION - VISC. DETAILS

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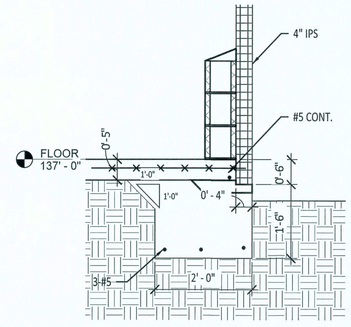
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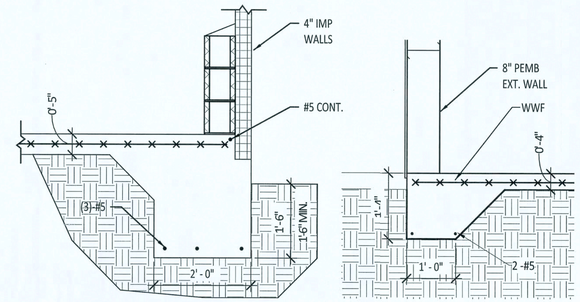
1 DETAIL - CONCRETE PIER TYPE 1
3/4" = 1'-0"



2 SECTION - CONCRETE PIER TYPE 1
3/4" = 1'-0"

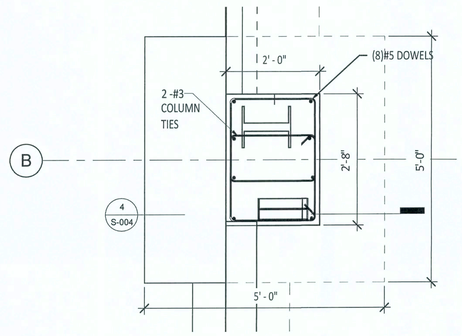


7 DETAIL - STEMWALL
3/4" = 1'-0"

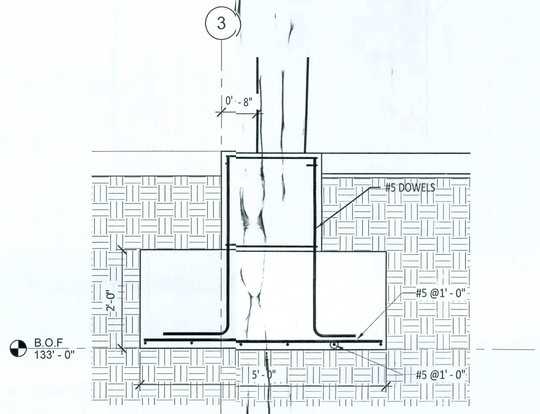


12 STEMWALL - OPTION
3/4" = 1'-0"

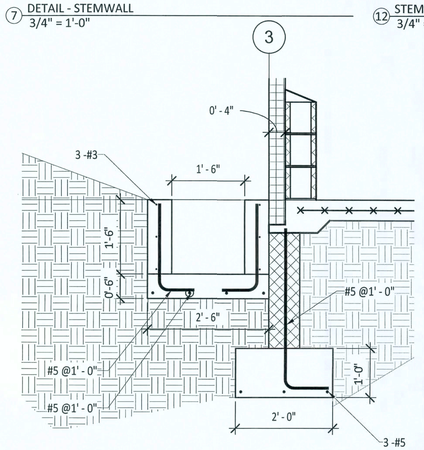
9 DETAIL - EQUIPMENT ROOM - SLAB EDGE
3/4" = 1'-0"



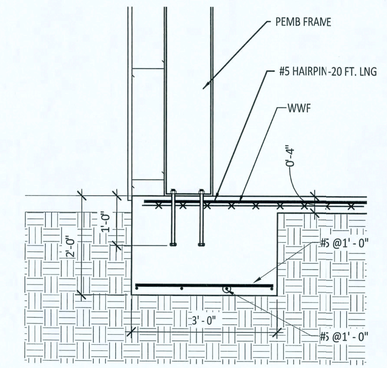
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3/4" = 1'-0"



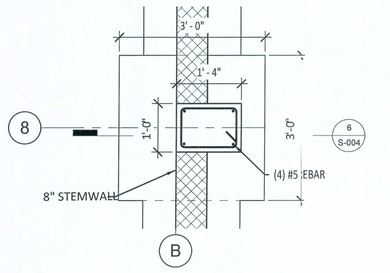
4 SECTION - CONCRETE PIER TYPE 2
3/4" = 1'-0"



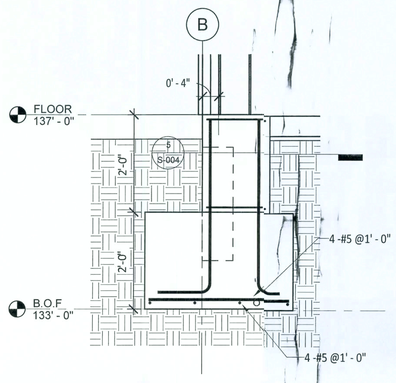
8 DETAIL - U-DRAIN EXTERIOR WALL
3/4" = 1'-0"



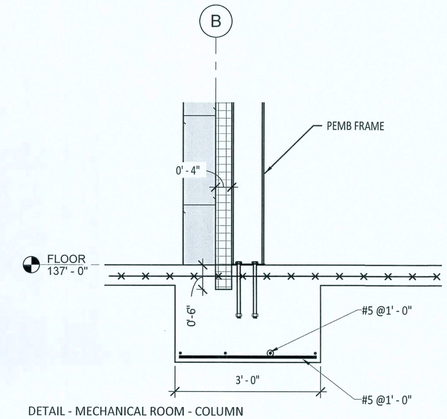
10 DETAIL - EQUIPMENT ROOM - FOOTING
3/4" = 1'-0"



5 DETAIL - CONCRETE PIER TYPE 3
3/4" = 1'-0"



6 SECTION - CONCRETE PIER TYPE 3
3/4" = 1'-0"



DETAIL - MECHANICAL ROOM - COLUMN FOOTING
11 3/4" = 1'-0"

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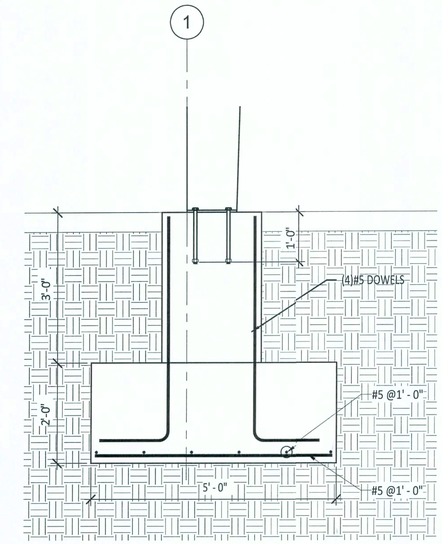
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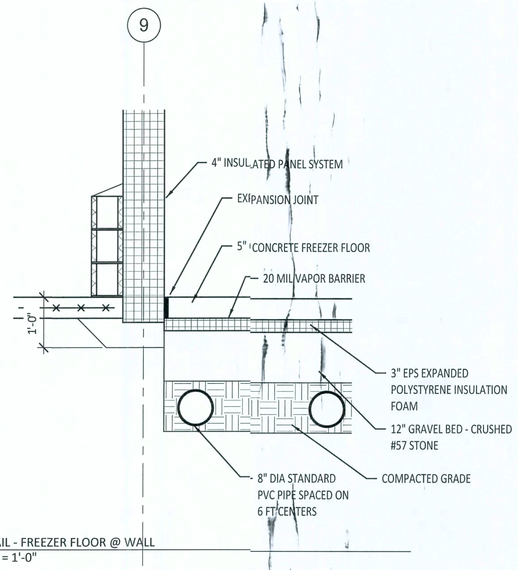
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FOUNDATION SECTIONS 1/2

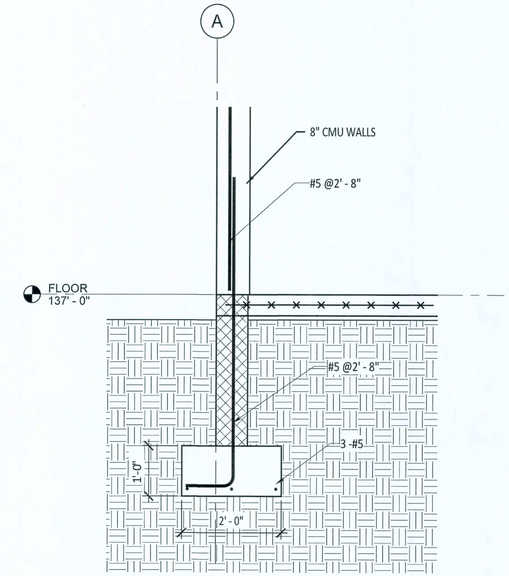
1809-020	DWG #: S-004	REV #: 1



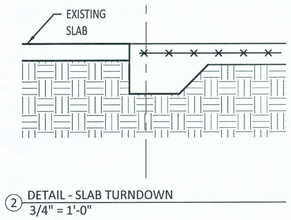
1 DETAIL - ISOLATED FOOTING
3/4" = 1'-0"



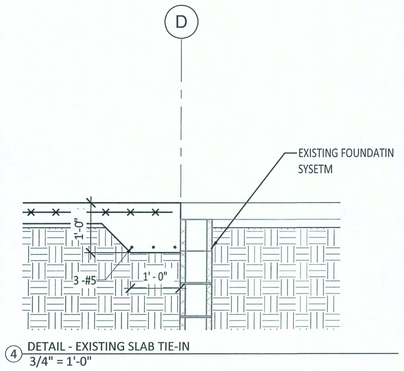
3 DETAIL - FREEZER FLOOR @ WALL
3/4" = 1'-0"



5 DETAIL - CMU WALL
3/4" = 1'-0"



2 DETAIL - SLAB TURNDOWN
3/4" = 1'-0"



4 DETAIL - EXISTING SLAB TIE-IN
3/4" = 1'-0"

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

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PROCESS PLANT EXPANSION

LAKE CITY, FL

NETTLES SAUSAGES

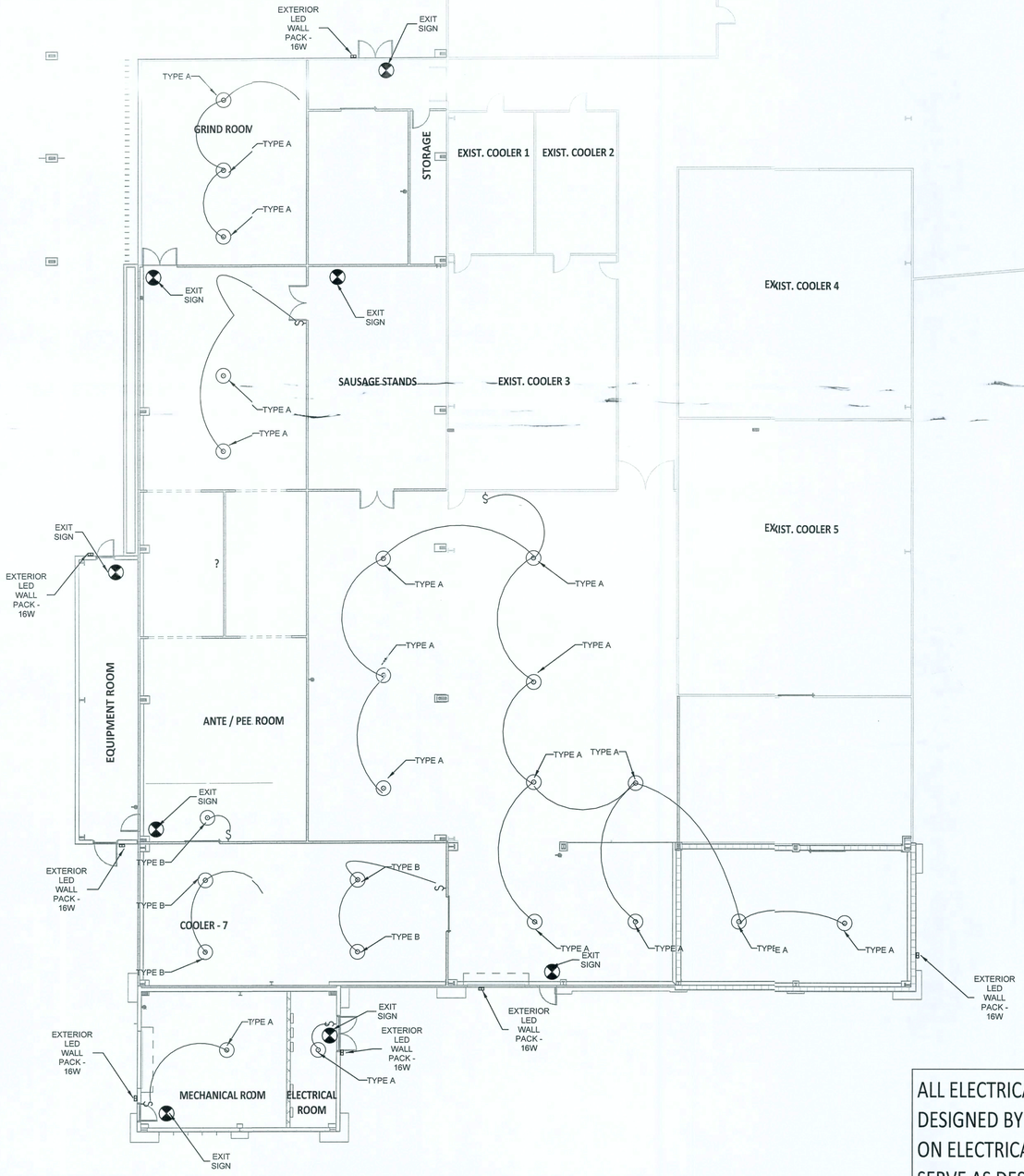
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FOUNDATION SECTIONS 2/2

1809-020	DWG #: S-005	REV #: 1

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19



1 LIGHTING PLAN
3/32" = 1'-0"

GENERAL NOTES: (THIS SHEET ONLY)

A. ALL SURFACE MOUNTED LIGHT FIXTURES SHALL BE SEALED WITH CAULK AFTER INSTALLATION TO PROVIDE A MOISTURE BARRIER (EXCLUDING OFFICE AREA).

B. ALL SWITCHES SERVING LIGHTS IN SPACES AS FOLLOWS: LIVE CHICKENS, DRY STORAGE, PROCESSING ROOM, AND PREP AREA SHALL BE SURFACE MOUNTED. ALL JUNCTION BOXES SHALL BE SEALED WITH CAULK TO PROVIDE A MOISTURE BARRIER AND ALL SURFACE MOUNTED CONDUITS SHALL HAVE STAND-OFFS TO PROVIDE A SPACE BETWEEN CONDUIT AND WALL (1/2 IN.). ALSO ALL SWITCHES SHALL HAVE A METAL IN-USE WEATHER PROOF COVER PLATE.

C. ALL SURFACE MOUNTED CONDUITS SHALL BE SEALED WITH CAULK WHERE THEY PENETRATE CEILING TO PROVIDE A MOISTER BARRIER.

D. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS. EMERGENCY LIGHTS SHALL BE SWITCHED WITH NORMAL LIGHTS IN THE SAME AREA.

E. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.

F. ALL AREA'S OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE EXCEPT FOR COOLER, FREEZER, PROCESSING ROOM, PREP AREA, LIVE CHICKENS, DRY STORAGE AND BAG STORAGE. SEE LIGHTING SENSOR LEGEND E-1(TYPICAL).

G. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.

H. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.

J. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.

K. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS. EMERGENCY LIGHTS SHALL BE SWITCHED WITH NORMAL LIGHTS IN THE SAME AREA.

TYPE A #71734 MORRIS 27,000 LUMENS

TYPE B #71732 MORRIS 13,000 LUMENS

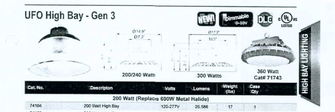
EXIT SIGN

EXTERIOR LED WALL PACK - 16W

LIGHTING SCHEDULE
1/4" = 1'-0"

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UFO High Bay - Gen 3



Cat. No.	Description	Volts	Lumens	Weight (lbs)	Case Qty.
200 Watt (Replaces 400W Metal Halide)					
74196	200 Watt High Bay	120-277V	26,586	17	1
74195	200 Watt High Bay	347-480V	26,960	17	1
74117	120° Aluminum Reflector			2	10
74121	60° Aluminum Reflector			2	10
74125	16" Polycarbonate Prismatic Reflector			3	5
74129	PC Reflector Cover			2	10
74133	90° Medium Distribution Lens			1	40
74112	Mounting Bracket			1.5	10
74114	Safety Tether			5	100
74127	Wire Guard			2	10
240 Watt (Replaces 750W Metal Halide)					
74196	240 Watt High Bay	120-277V	32,657	17	1
74197	240 Watt High Bay	347-480V	32,151	17	1
74117	120° Aluminum Reflector			2	10
74121	60° Aluminum Reflector			2	10
74125	16" Polycarbonate Prismatic Reflector			3	5
74129	PC Reflector Cover			2	10
74133	90° Medium Distribution Lens			1	40
74112	Mounting Bracket			1.5	10
74114	Safety Tether			5	100
74127	Wire Guard			2	10
300 Watt (Replaces 1000W Metal Halide)					
74196	300 Watt High Bay	120-277V	39,943	20	1
74199	300 Watt High Bay	347-480V	39,993	20	1
74115	120° Aluminum Reflector			1	10
74122	60° Aluminum Reflector			1	10
74126	16" Polycarbonate Prismatic Reflector			2	5
74130	PC Reflector Cover			2	10
74134	90° Medium Distribution Lens			1	40
74112	Mounting Bracket			1.5	10
74114	Safety Tether			5	100
74135	Wire Guard			2	10
360 Watt (Replaces 1,250W Metal Halide)					
71743	360 Watt Fixture	120-277V	43,887	30	1
71744	Everest Mounting			3	1
Accessories (for all Gen 3 UFOs except 360W)					
74139	Motion Sensor	120-277V		1	30
74140	Motion Sensor	480V		1	30
74141	Emergency Battery Backup			6	5

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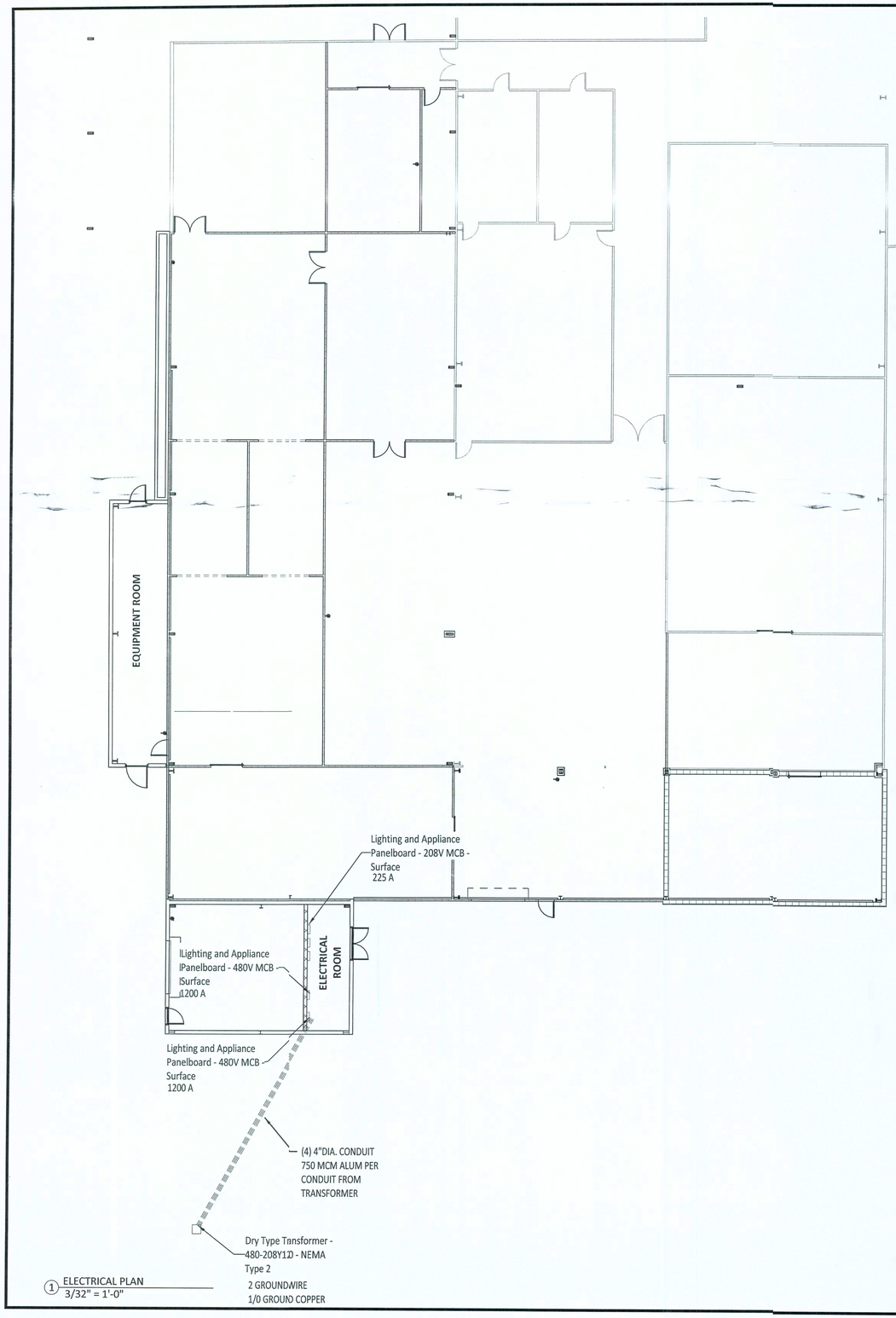
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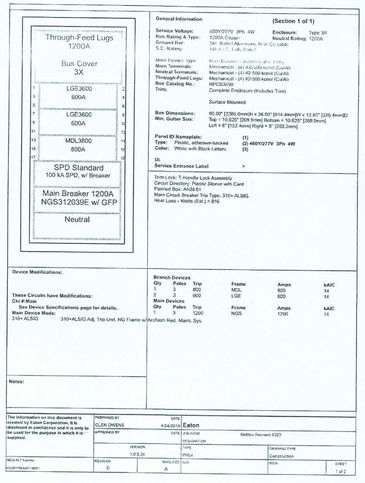
LIGHTING PLAN

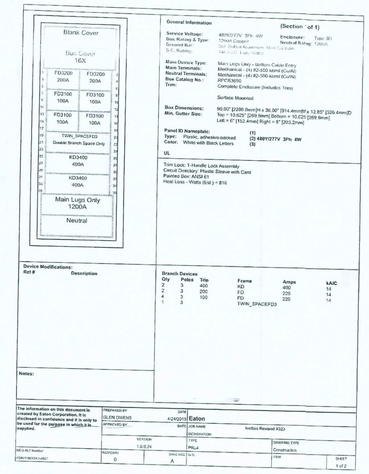
1809-020	DWG #: L-001	REV #: 1

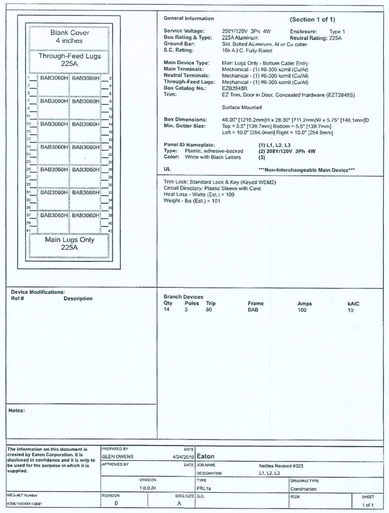


1 ELECTRICAL PLAN
3/32" = 1'-0"

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19







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PROCESS PLANT EXPANSION

LAKE CITY, FL

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ELECTRICAL LAYOUT

1809-020	DWG #: E-001	REV #: 1

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

Detail Bill of Material

Powering Business Worldwide

Project Name: Nettles Revised #323
General Order No:
Negotiation No: KS8611 0EX8K1
Alternate No: 0001

Item No.	Qty	Product	Description
1	1	Panelboards	30 Circuits, 1200A, Fully Rated, 480Y/277V 3Ph 4W, Copper Bs. 14k AIC, 1200A, Main Lugs Only[Bottom Fed], Surface Mounted

Catalog No P4D120LB36CH3R

Qty	List of Materials
1	1200A, Main Lugs Only
2	400A, 3P KO Branch Breaker
2	200A, 3P FD Branch Breaker
4	100A, 1P FD Branch Breaker
1	3P Double FD Branch Space Only
1	Copper Main Bus, 1200 Amps
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: RPCB3690

Item No.	Qty	Product	Description
1	1	Panelboards	9 Circuits, 1200A, Fully Rated, 480Y/277V 3Ph 4W, Copper Bus 14k AIC, 1200A, NGS 3P Main Breaker[Bottom Fed], Surface Mounted

Catalog No P4D1200B18CH3R

Qty	List of Materials
1	1200A, NGS 3P Main Breaker
1	1200A, Through-Feed Lugs
1	310=ALSIG Adj. Trip Unit, NG Frame w/ Arcflash Red. Maint. Sys.
1	800A, 3P MDL Branch Breaker
2	600A, 3P LGE Branch Breaker
1	Surge Protective Device, 120 kA SPD Series - Standard, with Breaker
1	Copper Main Bus, 1200 Amps
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Service Entrance Panel
1	Type 3R Enclosure: RPCB3690

Item No.	Qty	Product	Description
3	3	Panelboards	42 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 10k AIC, 225A, Main Lugs Only[Bottom Fed], Surface Mounted

Catalog No P1A225LB42AH01
Designation L1,L2,L3

Qty	List of Materials
1	225A, Main Lugs Only
1	225A, Through-Feed Lugs
14	60A, 3P SAS-H Branch Breaker
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 1 Enclosure - 28" Wide: EZ62848R
1	EZ Trim, Door in Door, Concealed Hardware: EZT2848S

Glen Owens Interstate Supply Inc Lake City Fl 04/24/2019 2:27 PM

Detail Bill of Material

Powering Business Worldwide

Project Name: Nettles Revised #323
General Order No:
Negotiation No: KS8611 0EX8K1
Alternate No: 0001

Item No.	Qty	Product	Description
2	2	Dry Type Transformers	Transformer Type: General Purpose Vented 3 Phase, 75 KVA, 1 K-Factor 480 Primary Volts 208Y/120 Secondary Volts Temperature Rise 150C with 220C Insulation System Aluminum Winding Material Sound Reduction : 0 NEMA ST-20 Audible Sound Level: 50 Efficiency : DOE 10 CFR Part 431 (2016) UL Listed : Y Enclosure Type: NEMA 2 (N3R w/opt'l weathershield) Operating Frequency: 60 HZ

Catalog No V48M28T7516

Qty	List of Materials
1	3 Phase, 75 KVA, 480 Primary Volts, 208Y/120 Secondary Volts, 150C with 220C Insulation System Temperature Rise, Aluminum Winding Material, 60 HZ
1	Transformer Lug Kit/1PH 50-75KVA or 3PH 75-112.5KV
1	TRANSFORMER WEATHERSHIELD KIT FITS FRAME FR942

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction there of for the time the shipment is delayed.

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Pow-R-Line4 Device Specifications

Cct #s	Nameplate	Device	Trip	Terminal	Modifications
Surface		1200A-TF-LUGS		(6) #2-500 kcmil (Cu/Al)	
1,2,3 4,5,6		LGE3600	600	(2) #2-500 kcmil (Cu/Al)	
7,8,9 10,11,12		LGE3600	600	(2) #2-500 kcmil (Cu/Al)	
13,14,15 16,17,18		MDL3600	800	(1) 500-750 kcmil (Cu/Al)	
Main		NGS3120SE	1200	(4) 4/0-500 kcmil (Cu/Al)	310=ALSIG Adj. Trip Unit, NG Frame w/ Arcflash Red. Maint. S

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	APPROVED BY:	DATE:	JOB NAME: Nettles Revised #323	
			DESIGNATION:	
	VERSION: 1.0.0.1	TYPE: Dry-Type Transformer	DRAWING TYPE: Construction	
NEG ALT Number: KS8611 0EX8K1-0001	REVISION: 0	DWG SIZE: A	G.O.	ITEM	SHEET: 2 of 2

Pow-R-Line4 Device Specifications

Cct #s	Nameplate	Device	Trip	Terminal	Modifications
1,2,3		FD3250	250	(1) #4-4/0 (Cu/Al)	
4,5,6		FD3250	250	(1) #4-4/0 (Cu/Al)	
7,8,9 10,11,12		FD3250	250	(1) #4-4/0 (Cu/Al)	
8,10,12		FD3100	100	(1) #14-1/0 (Cu/Al)	
13,15,17		FD3100	100	(1) #14-1/0 (Cu/Al)	
14,16,18		FD3100	100	(1) #14-1/0 (Cu/Al)	
19,20,21 22,23,24		TWIN_SPACED3	225	None Available	
25,26,27 28,29,30		KD3400	400	(1) 2/0-350 kcmil (Cu/Al)	
31,32,33 34,35,36		KD3400	400	(1) 2/0-350 kcmil (Cu/Al)	
Main		1200A-MLO		(4) #2-500 kcmil (Cu/Al)	

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	APPROVED BY:	DATE:	JOB NAME: Nettles Revised #323	
			DESIGNATION:	
	VERSION: 1.0.0.24	TYPE: PNL-2	DRAWING TYPE: Construction	
NEG ALT Number: KS8611 0EX8K1-0001	REVISION: D	DWG SIZE: A	G.O.	ITEM	SHEET: 3 of 3

Dry-Type Transformers General Information

- ☐ Standard Transformer Catalog Number: V48M28T7516
- ☐ Transformer Type: General Purpose Vented
- ☐ Phase: 3
- ☐ kVA: 75
- ☐ Primary Volts: 480
- ☐ Secondary Volts: 208Y/120
- ☐ Temperature Rise: 150C with 220C Insulation System
- ☐ Winding Material: Aluminum
- ☐ Enclosure Type: NEMA 2 (N3R w/opt'l weathershield)
- ☐ Frequency (Hz): 60
- ☐ Easy Install: N
- ☐ Frame: 942
- ☐ Wiring Diagram: 280B
- ☐ Weight (lbs.): 570
- ☐ Impedance (%): 3.61
- ☐ UL Listed: Y
- ☐ Max Practical Inrush (Amps): 270
- ☐ No Load Losses (Watts): 210
- ☐ Total Losses (Watts): 1941

Standard Values

- ☐ K-Factor: 1
- ☐ TAPS: 2@+2.5%, 4@-2.5%
- ☐ Sound Reduction (dB): 0
- ☐ NEMA ST20 Sound Level (dB): 50
- ☐ DOE 10 CFR Part 431 (2016) Efficient: Y
- ☐ Infrared Viewing Window: None

Field-Installed Accessories Included

- ☐ Lug Kit: LKS2
- ☐ Weather Shield: WSS9

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	APPROVED BY:	DATE:	JOB NAME: Nettles Revised #323	
			DESIGNATION:	
	VERSION: 1.0.0.1	TYPE: Dry-Type Transformer	DRAWING TYPE: Construction	
NEG ALT Number: KS8611 0EX8K1-0001	REVISION: 0	DWG SIZE: A	G.O.	ITEM	SHEET: 1 of 1

NEMA Premium efficient transformers — Technical Data TD009001EN, Effective April 2013

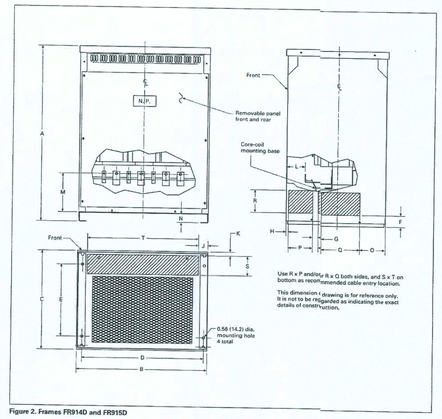


Figure 2. Frames FR914D and FR915D

Table 10. FR914D and FR915D dimensions in inches (mm)

A	B	C	D	E	F	G	H	J	K	L	M	M	O	P	Q	R	S	T
39.00 (990.6)	23.00 (736.6)	27.00 (559.9)	27.00 (685.8)	15.98 (420.9)	2.55 (64.8)	1.25 (31.8)	.50 (12.7)	2.10 (53.3)	.50 (22.9)	4.00 (101.6)	8.61 (218.7)	1.83 (46.5)	2.70 (195.6)	5.37 (136.4)	8.50 (215.3)	5.00 (127.0)	4.25 (108.0)	24.66 (626.4)

Table 11. FR914D and FR915D accessories

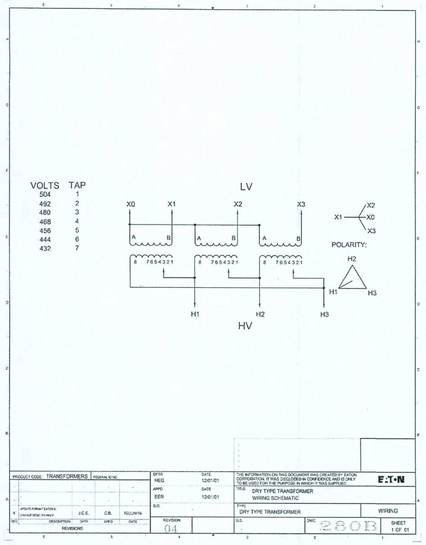
Name	Serial number
Weathershield	WS39
Wall-mount bracket	WM891
Rodent screen	RS17

Table 12. FR914D and FR915D replacement enclosure parts

Name	Serial number
Front/back panel(s)	47-43317-1
Side panel	47-43315-1
Top cover	47-43318-1
Bottom panel	47-51965-1

(1) When ordering a replacement front panel, specify the serial number of the existing nameplate and reference it in the order notes so a replacement nameplate can be provided.

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		APP'D: EER	DATE: 12-07-01	TITLE: DRY TYPE TRANSFORMER WIRING SCHEMATIC	
		E.C.		COPY: DRY TYPE TRANSFORMER	WIRING
REVISIONS: REV	DESCRIPTION	DATE	APP'D	DATE	E.C.	SCALE: NONE	DWG: 280B	SHEET: 1 OF 01
						REVISION: 01		

SIGNED & AS-Dated: KS8611 0EX8K1-0001-4/24/2019	Job Name: Nettles Revised #323
Item Number:	Catalog Number: V48M28T7516
	Designation:

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PROCESS PLANT EXPANSION

LAKE CITY, FL

NETTLES SAUSAGES

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CHKD BY:	GG	
APPRD BY:	GG	

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GARYGILL PE #51942
426 SW COMMERCE DR 130-M
LAKE CITY, FL 32025 386-590-1242

ELECTRICAL NOTES

1809-020	DWG #: E-002	REV #: 1

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

ELECTRICAL SPECIFICATIONS

DIVISION 16

ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO WHITE OAK PASTURES INC., BLUFFTON, GA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY ONLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT TO THE PROJECT SITE AND RELATED PROPERTY.

3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, CA ACCESSIBILITY CODE, CA STATE ENERGY CODE, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.

4. ALL PERMITS AND FEES SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH IT'S LISTING.

6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS & LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.

7. THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS, MAKE THE REQUIRED CONNECTIONS, AND LEAVE IN A FULLY FUNCTIONING CONDITION. PROJECT.

8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED FIRE RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.

9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.

10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.

11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS. (SOLID CONDUCTORS #10 AND SMALLER, OTHERWISE STRANDED).

2. ALL CONCEALED INTERIOR 120 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN EMT CONDUIT FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN ELECTRICAL METALIC CONDUIT. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN DRY EXPOSED STRUCTURE AREAS SHALL BE EMT

3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC. IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.

4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER GROUND CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.

5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED 3/4".

6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE.

7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.

8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, COORDINATE COLOR WITH ARCHITECT.

9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, COORDINATE COLOR WITH ARCHITECT, EXCEPT AS NOTED ON DRAWINGS.

10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE TYPE AND COLOR WITH ARCHITECT.

11. PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.

12. PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE"COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.

13. WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL, THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPARATION.

SECTION C: DISTRIBUTION EQUIPMENT

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.

2. PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANELS NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6FT ABOVE FLOOR. PROVIDE 3/4IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/2IN TOGGLE BOLTS. PANEL MANUFACTURERS: SQUARE D I-LINE SERIES, GE AND SIEMENS. ALL CURRENT CARRYING PARTS SHALL BE COPPER.

3. SEPARATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE 1 ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.

4. ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE 1 ENCLOSURE INDOORS AND NEMA 3R OUTDOORS.

5. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.

6. SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.

SECTION D: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.

2. ALL FLUIORESCENT LAMPS SHALL BE 32 WATT WITH A OUTPUT EXCEEDING 2900 LUMENS AND A COLOR RENDERING INDEX OF GREATER THAN 80. SEE SCHEDULES FOR COLOR TEMPERATURE OF LAMPS (3500 DEG. IF NOT SHOWN)

3. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE BALLAST WITH A SOUND RATING CATEGORY OF A. BALLAST SHALL NOT CONTAIN ANY PCB'S. TOTAL HARMONIC DISTORTION <20%.

4. ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.

SECTION E: COMPUTER/DATA SYSTEM AND TELEPHONE SYSTEM

WORK INCLUDED:

1. WORK SHALL INCLUDE PROVISIONS FOR A COMPLETE DATA/COMPUTER CABLING SYSTEM AND A COMPLETE TELEPHONE CABLING SYSTEM, INCLUDING: TELEPHONE/DATA COMBINATION OUTLETS, CABLING, CONDUIT, BOXES, TELEPHONE PUNCH DOWN BLOCKS, AND PLYWOOD BACKBOARDS.

SCOPE OF PROJECT, STANDARDS, AND DESCRIPTION:

1. THE CABLING AND WIRING PLACED FOR VOICE AND DATA COMMUNICATIONS ON THIS UNDERTAKING SHALL BE "UNSHIELDED TWISTED PAIR" TYPE AND CONFORM TO THE REQUIREMENTS CONTAINED IN THE LATEST EDITIONS OF THE NATIONAL ELECTRIC CODE (NEC) AND THE LATEST EDITIONS OF THE FOLLOWING AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) SPECIFICATIONS:
A. EIA-TIA-568 COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING.
B. STANDARD B.EIA-TIA-569 COMMERCIAL BUILDING STANDARD FOR TELECOMM. PATHWAYS AND SPACES.
C. TIA/EIA-606 ADMINISTRATION STANDARD FOR THE TELECOMM. INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
D. TIA/EIA-607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
E. SUPPLEMENTS TO IA/TIA-568 TECHNICAL SYSTEMS BULLETINS.
F. TSB-36 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR CABLES.
G. TSB-40 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR HARDWARE.

WORKMANSHIP:

1. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER. ARCHITECT, ENGINEER, AND/OR OWNER MAY OBSERVE THE WORK PROCEDURES AND WORKMANSHIP OF THE CONTRACTOR BUT SUCH OBSERVATION WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR PERFORMANCE.

WARRANTY:

1. THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY THAT DESCRIBES THE EQUIPMENT SUPPLIED UNDER THESE SPECIFICATIONS WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS AND THE CABLE PLANT/LABOR WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS FROM THE DATE OF FINAL ACCEPTANCE UNLESS OTHERWISE SPECIFIED AND THAT ALL DEFECTS OCCURRING WITHIN THAT PERIOD SHALL BE CORRECTED IN A TIMELY MANNER AT NO COST TO THE OWNER.

CONTRACTOR'S QUALIFICATIONS:

1. CONTRACTOR SHALL BE REQUIRED, BEFORE AWARDING OF CONTRACT, TO DEMONSTRATE TO THE COMPLETE SATISFACTION OF THE ARCHITECT THAT HE HAS THE NECESSARY FACILITIES, ABILITY AND FINANCIAL RESOURCES TO EXECUTE THE WORK IN A SATISFACTORY MANNER AND WITHIN THE TIME SPECIFIED; THAT HE HAS HAD EXPERIENCE IN CONSTRUCTION WORK AS SAME OR SIMILAR NATURE; THAT HE HAS PAST HISTORY AND REFERENCES WHICH WILL ASSURE THE OWNER OF HIS QUALIFICATIONS FOR EXECUTING THE WORK.

2. CONTRACTOR SHALL SUBMIT A COPY OF A VALID LOW-VOLTAGE LICENSE (LOW-VOLTAGE GENERAL, LOW-VOLTAGE TELECOMMUNICATIONS OR LOW-VOLTAGE UNRESTRICTED AS ISSUED BY THE STATE CONSTRUCTION INDUSTRY LICENSING BOARD OF LOW-VOLTAGE CONTRACTORS).

3. CONTRACTOR SHALL SUBMIT A COPY OF A BICSI (BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL) CERTIFIED RCDD (REGISTERED COMMUNICATIONS DISTRIBUTIONS DESIGNER) CERTIFICATE.

4. COMPREHENSIVE LIST OF REFERENCES: ATTACH A DETAILED LIST OF REFERENCES ALONG WITH CONTACT PERSON, DATES OF WORK, MAILING ADDRESS, TELEPHONE NUMBERS.

5. CONTRACTOR MUST PROVIDE PROOF OF INSTALLATION IN A MINIMUM OF FIVE SITES USING AN CATEGORY 6 STRUCTURED CABLING WITH 100 OR MORE ACTIVE (WORKING) NODES INSTALLED.

SUBMITTALS:

1. SUBMIT PRODUCT DATA CONSISTING OF MANUFACTURER'S PUBLISHED LITERATURE AND AS SPECIFIED IN SECTION 16000 FOR:
A. LITERATURE FOR EACH; SEPARATE TYPE OF EQUIPMENT BEING PROVIDED. INDICATE MODEL NUMBER ON CUTSHEET.
B. ONE LINE SCHEMATIC OF COMPLETE SYSTEM SHOWING A FLOOR PLAN TO SCALE. SHOW LOCATIONS AND TYPE OF OUTLETS, AS WELL AS ALL RACK LOCATIONS, AND CABLING TYPES.
C. DOCUMENTATION OF TESTING ON ALL WIRING AND TERMINATIONS AS PER EIA/TIA STANDARDS.

MANUFACTURERS:

1. ACCEPTABLE MANUFACTURERS FOR EACH TYPE OF EQUIPMENT SPECIFIED SHALL BE AS NOTED THROUGHOUT THIS SPECIFICATION SECTION.

2. THE ACCEPTABLE MANUFACTURERS NOTED SHALL BE INSTALLED BY THE AUTHORIZED LOCAL FACTORY DEALER/REPRESENTATIVE FOR THAT PRODUCT.

3. THE CONTRACTOR SHALL HOLD A CURRENT LOW VOLTAGE CONTRACTOR'S LICENSE AND PROVIDE CERTIFICATE. ANY OTHER INTERESTED PARTIES SHALL SUBMIT A COMPANY RESUME SHOWING YEARS IN BUSINESS, CERTIFICATION STATING THAT HE IS AN AUTHORIZED REPRESENTATIVE FOR THE MANUFACTURER OF THE EQUIPMENT HE IS SUBMITTING FOR APPROVAL AND THAT HE MAINTAINS A FULLY EQUIPPED AND STOCKED SERVICE SHOP AND SHALL RESPOND TO SERVICE CALLS WITHIN 2 NORMAL WORKING HOURS. LIST OF KEY PERSONNEL, COPIES OF APPROPRIATE LICENSES AND LIST OF RECENTLY COMPLETED JOBS.

DATA AND TELEPHONE JACK AND OUTLET SPECIFICATIONS:

1. LOCATIONS SHOWN ON DRAWINGS WILL BE EQUIPPED WITH A CONSISTENT ARRANGEMENT OF LAN COMMUNICATIONS OUTLETS. PROVIDE JACKS IN OUTLETS (AS DETAILED ON DRAWING). PROVIDE COLORED ICONS AS INDICATED ON DRAWINGS.

2. OUTLET FACEPLATE FOR THIS ARRANGEMENT SHALL BE CONFIGURED IN THE FOLLOWING FASHION:
A. THE JACKS USED SHALL FIT PROPERLY IN THE OUTLET OPENINGS OF THE OUTLET FACEPLATE. THE JACKS USED ALSO CONFORM TO PARAMETERS SET IN EIA/TIA 568, TSB36 AND TSB40A.
B. IN A PROPERLY INSTALLED CATEGORY 6 UTP WIRING ARRANGEMENT, C. THE WIRING ARRANGEMENT OF THE JACK SHALL CONFORM TO THE EIA/TIA 568, TSB36 AND TSB40A.

3. THE JACK SHALL POSSESS THE FOLLOWING CHARACTERISTICS:
A. THE EIGHT (8) POSITION, 7 EIGHT (8) CONDUCTOR JACK SHALL BE CAPABLE OF SUPPORTING THE PREVIOUSLY DEFINED DATA RATES AS WELL AS VOICE (INCLUDING ISDN).
B. UTILIZATION OF IDC TYPE OR EQUIVALENT INSULATION DISPLACEMENT HARDWARE FOR HORIZONTAL WIRE ATTACHMENT AND ACCEPTANCE OF 22 OR 24 AWG CONDUCTORS.
C. THE JACK WIRES SHALL CONSIST OF 50 MICRO-INCH LUBRICATED GOLD PLATING OVER 100 MICRO-INCH NICKEL UNDERPLATING.
D. ANY VACANT FACEPLATE POSITION SHALL BE RESERVED FOR FUTURE GROWTH AND SHOULD HAVE A DUST COVER/BLANK INSERTED.

4. ACCEPTABLE MANUFACTURER'S: ORTRONICS, SERIES #568 B JACKS AND HUBBELL.

DATA AND TELEPHONE HORIZONTAL WIRING SPECIFICATIONS: (BERK-TEK LANMARK 1000 (CAT 6) CABLE)

1. THIS SECTION COVERS THE CABLE FROM THE COMMUNICATIONS OUTLET TO THE PATCH PANEL OR PUNCH DOWN BLOCK. THESE CABLES SHALL BE AS INDICATED ON DRAWINGS UNSHIELDED TWISTED PAIRS CABLE. EACH CABLE SHALL BE PLACED IN A "POINT-TO-POINT" FASHION FROM THE OUTLET TO THE WIRING CLOSET FOR EACH COMMUNICATIONS OUTLET NEEDED. THERE SHALL BE NO INTERMEDIATE SPLICES OR CROSS CONNECTS IN THESE CABLES. PROVIDE ONE (1) CABLE FOR EACH DATA JACK. SEE DRAWINGS FOR NUMBER OF JACKS IN EACH OUTLET. CABLE SHALL BE BLUE IN COLOR.

2. THE CHARACTERISTICS OF THE HORIZONTAL CABLE ARE AS FOLLOWS:
A. CABLE CONSISTING OF FOUR (4) PAIR OF 24 AWG BARE SOLID COPPER CONDUCTORS INSULATED WITH A NON-PLENUM RATED MATERIAL. THE INSULATED CONDUCTORS ARE TIGHTLY TWISTED INTO PAIRS AND JACKETED WITH FLOURPOLYMER. NO TYPE OF SHIELD IS REQUIRED IN THE SHEATH.
B. EACH SHEATH SHALL CONTAIN FOUR (4) UNSHIELDED COPPER PAIRS, EACH PAIR SHALL HAVE A DIFFERENT TWIST PER RATIO PER FOOT RANGING FROM 12 TO 24 TWISTS PER FOOT. NO MORE THAN 1/2" INCH MAY BE UNTWISTED AND THE SHEATH MAY NOT BE STRIPPED BACK MORE THAN 1/2" INCH AT THE JACK DURING INSTALLATION.

3. THE CABLE SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
A. EIA/TIA 568 "COMMERCIAL BUILDING WIRING STANDARD," HORIZONTAL CABLE SECTION.
B. EIA/TIA TSB-36 "TECHNICAL SYSTEM BULLETIN ADDITIONAL CABLE SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR CABLES, "CATEGORY 6".
C. PROPOSED ANSI X3T9.5 REQUIREMENTS FOR UTP AT 100 MBPS.
D. CERTIFIED LEVEL 6 CABLE UNDER UL'S LAN CABLE CERTIFICATION PROGRAM.
E. IEEE 802.3
F. ICEA S80-576
G. UL SUBJECT 444
H. PUB 49007
I. TA-TSOOO133
J. NATIONAL ELECTRIC CODE - ARTICLE 800

4. THE CABLES SHALL MEET THE FOLLOWING REPRESENTATIVE ELECTRICAL AND TRANSMISSION CHARACTERISTICS:
A. MUTUAL CAPACITANCE (PF/FT.) @ 1KHZ (NOM.)
B. IMPEDANCE Z (OHMS FROM 1-25 MHZ): 100 (+/- 15Ω)
C. DC RESISTANCE - MAX., - (OHMS/1000 FT.): 28.6
D. ATTENUATION - MAXIMUM FREQUENCY (MHZ) - DB/1000 FT. - DB/100 M.
1 - 6.3 - 2.1
4 - 13 - 4.3
10 - 20 - 6.6
16 - 25 - 8.2
20 - 28 - 9.2
25 - 32 - 10.2
31.25 - 36 - 11.8
62.5 - 52 - 17.1
100 - 67 - 21.9
(TEST TO 400 MHZ AT LEVELS PROVIDED BY MFG.)
E. WORST PAIR-TO-PAIR NEAR END CROSSTALK: FREQ. (MHZ) - WORST PAIR NEXT - (DB)
1 - 62
4 - 53
10 - 47
16 - 44
20 - 42
25 - 41
31.25 - 40
62.5 - 35
100 - 32
(TEST TO 400 MHZ AT LEVELS PROVIDED BY MFG.)

DATA PATCH PANEL SPECIFICATIONS:

1. THIS SECTION COVERS THE TERMINATION HARDWARE LOCATED ON THE DATA BACKBOARD. THE TERMINATION HARDWARE SHALL PROVIDE THE CAPABILITY TO BE ABLE TO PATCH CONNECTIONS BETWEEN PORTS ON THE LAN HARDWARE (ELECTRONICS BY OTHERS, N.I.C.) AND THE HORIZONTAL CABLES TO THE OUTLETS.

2. THE PATCH PANELS SHALL BE CATEGORY 6 MODULAR JACK PANELS. (ORTRONICS CAT 6 OR HUBBELL).

3. THE TERMINATION HARDWARE SHALL BE LOCATED ON 19" INCH RACKS. THE CONFIGURATION OF THE PATCH PANELS SHALL BE IN AN AGREEMENT THAT MINIMIZES PATCH CORD LENGTHS. PROVISIONS FOR CABLE MANAGEMENT AND PATCH CORDS (ORGANIZATION OF HORIZONTAL CABLE AND PATCH CORDS) ON THE RACK SHOULD BE INCLUDED. RACK SHALL BE: SELF SUPPORTING, BASE MOUNTED SEVEN FOOT (7') HIGH, BLACK ALUMINUM EQUIPMENT RACK WITH MINIMUM 45 UNITS OF VERTICAL SPACE. STANDARD EIA HOLE PATTERN ON FRONT AND REAR OF UPRIGHTS. BASE SHALL HAVE A MINIMUM 20" X 15" FOOT PRINT.

4. POTENTIAL HORIZONTAL CABLES TO THE OUTLETS WILL BE DIRECTLY CONNECTED TO #10 INSULATION DISPLACEMENT HARDWARE OR EQUIVALENT ASSOCIATED WITH EACH JACK ON THE PATCH PANEL. THE JACKS ON THE PATCH PANEL SHALL BE WIRED TO THE EIA 568B WIRING STANDARD.

5. CATEGORY 6, FACTORY-BUILT, MANUFACTURE TESTED PATCH CORDS SHALL BE PROVIDED FOR EACH HUB-PORT PROVIDED.

TELEPHONE PUNCH DOWN BLOCK SPECIFICATIONS:

1. TYPE 110 PUNCH DOWN BLOCKS AT SERVICE TELEPHONE BACKBOARD.

CONDUIT, RACEWAY, AND BACKBOARDS:

1. RECESSED OUTLET LOCATIONS: PROVIDE RECESSED 4 IN. SQUARE BOX AND 3/4 INCH EMT CONDUIT TO TELEPHONE BACKBOARD AS NOTED ON DRAWINGS FOR INTERIOR RECESSED OUTLET LOCATIONS. PROVIDE SINGLE GANG PLASTER RING TO FIT RECESSED BOX.

2. SURFACE OUTLET LOCATIONS: SEE DETAIL ON DRAWING.

3. SERVICE CONDUIT: PROVIDE CONDUIT AND CABLE IN LOCATIONS NOTED ON DRAWINGS.

4. BACKBOARD: PROVIDE PLYWOOD BACKBOARD WITH 2 COATS OF GREY PAINT.

CABLE MANAGEMENT PANEL:

1. PAINTED STEEL PANEL FOR STANDARD 19" RACK MOUNTING, WITH FIVE HORIZONTAL 3" X 4" CABLE MANAGEMENT RINGS.

UNINTERRUPTIBLE POWER SUPPLY FOR MDF RACKS:

1. THE NETWORK HUB UNIT AT MDF SHALL BE PLUGGED INTO AN UNINTERRUPTIBLE POWER SUPPLY WHICH OPERATES IN A "HOT STANDBY STATE WHEN THE AC POWER IS PRESENT, PROVIDING POWER OF CONSISTENT QUALITY. ALSO, THE SWITCH OVER TIME MUST NOT BE MORE THAN 3.5 MICROSECONDS. UPS SHALL BE RACK MOUNTED AND BE A MINIMUM OF 1000 VA CAPACITY.

PULL AND JUNCTION BOX COVER IDENTIFICATION:

1. SEE EQUIPMENT IDENTIFICATION IN THIS ELECTRICAL DIVISION OF THE SPECIFICATIONS.

LABELING:

1. SYSTEM SHALL BE COMPLETELY LABELED, WITH CIRCUIT NUMBERS INDICATED ON THE PATCH PANEL, OUTLET JACKS, AND BOTH ENDS OF THE CABLE. PROVIDE A LIST INDICATING CIRCUIT NUMBERS INSTALLED TO EACH SPACE. NUMBER EACH JACK AS SHOWN ON PLAN.

TESTING AND CERTIFICATION:

1. TESTING COPPER DISTRIBUTION SYSTEMS ARE CRUCIAL IN ASSURING THE OVERALL INTEGRITY AND SATISFACTORY PERFORMANCE OF THE NETWORK. TEST RESULTS QUANTIFY SYSTEM QUALITY, IDENTIFY SYSTEM FAULTS, AND ESTABLISH THE BASELINE ACCOUNTABILITY PERFORMANCE OF THE SYSTEM. PROPER TESTING ALSO MAXIMIZES THE LONGEVITY OF THE SYSTEM, MINIMIZES DOWNTIME AND MAINTENANCE, AND FACILITATES SYSTEM UPGRADES OR RECONFIGURATION.

2. THE CONTRACTOR SHALL PROVIDE PROOF OF COMMUNICATIONS WIRING SYSTEMS CERTIFICATION AND TESTING CERTIFICATION.

3. ALL DATA WIRING AND TERMINATIONS SHALL BE TESTED AND MUST PASS EIA/TIA STANDARDS FOR CATEGORY 6 WIRING. ALL WIRING AND TERMINOLOGY FOR VOICE CABLE SHALL BE TESTED FOR CONTINUITY. ALL FAULTS SHALL BE CORRECTED.

4. ALL TEST RESULTS MUST BE PRINTED AND SHOW THE FOLLOWING RESULTS: IMPEDANCE (TDR), CABLE LENGTH, ATTENUATION, NEAR END CROSS TALK (NEXT), LINE MAPPING, DC OHMS, OTDR.

GUARANTEES:

1. ALL COMMUNICATION OUTLETS WIRED AND SERVICEABLE MUST BE TESTED AND CERTIFIED IN COMPLIANCE WITH THE ANSI/IEEE 802.3 AND EIA/TIA 568 CATEGORY 6 SPECIFICATIONS. TESTING MUST BE "END-TO-END". TEST RESULTS SHALL BE FORWARDED TO ARCHITECT A MINIMUM OF ONE WEEK PRIOR TO FINAL INSPECTION.

ALL ELECTRICAL SYSTEMS , COMPONENTS, AND DEVICES TO BE DESIGNED BY A CERTIFIED ELECTRICAL CONTRACTOR. ALL INFORMATION ON ELECTRICAL PLANS ARE CONCEPTUAL ONLY AND NOT INTENDED TO SERVE AS DESIGN DOCUMENTS

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PROCESS PLANT EXPANSION

LAKE CITY, FL

NETTLES SAUSAGES

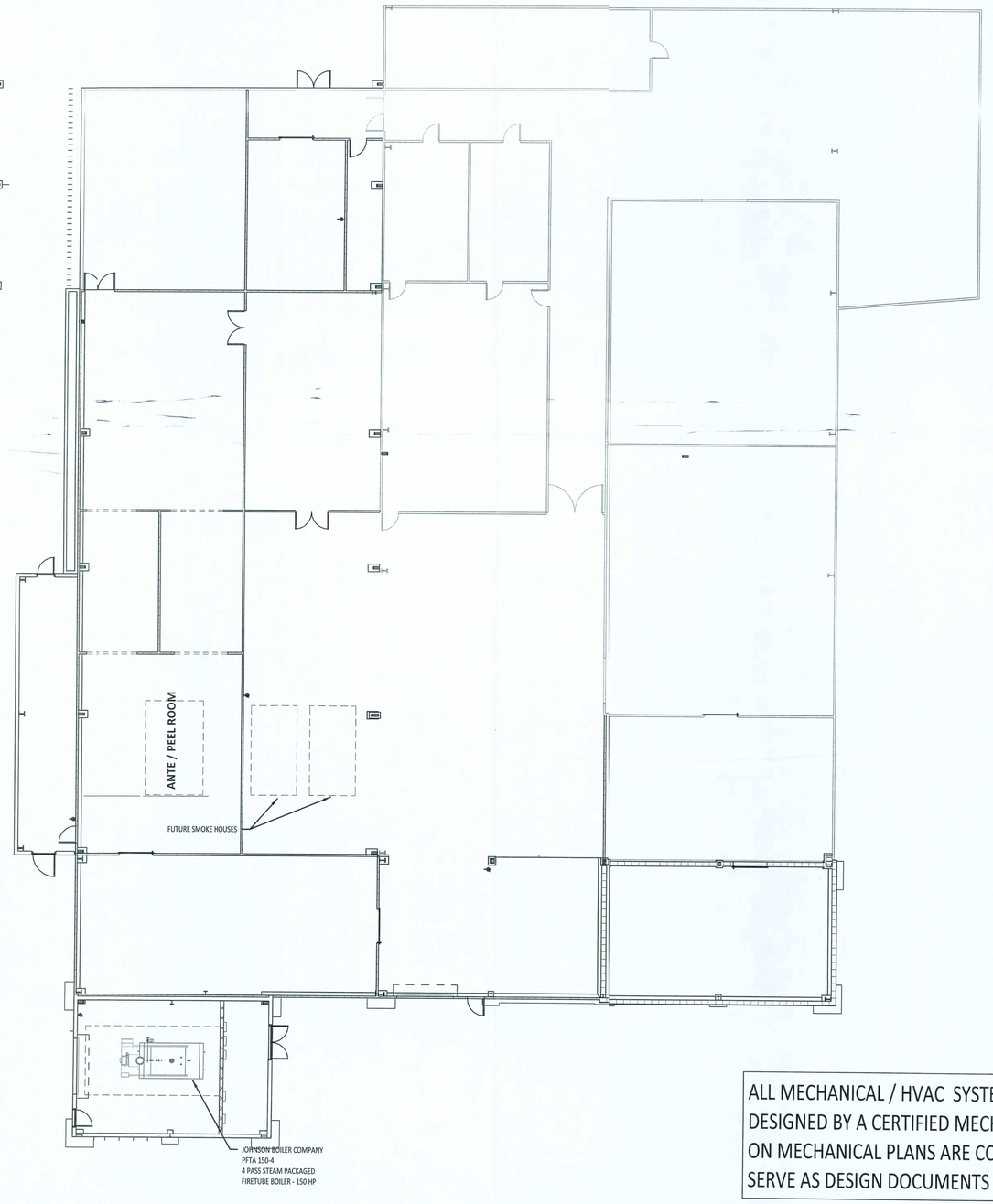
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ELECTRICAL NOTES

1809-020	DWG #: E-003	REV #: 1

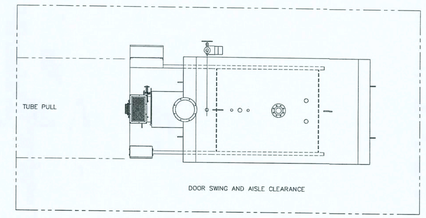
Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

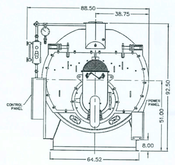


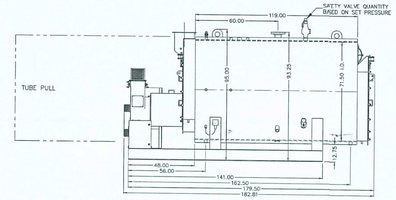
1 MECHANICAL BOILER PLAN
3/32" = 1'-0"

NOTES:

1. MINIMUM AISLE CLEARANCE 36" FROM BOILER SIDES AND REAR. (THIS REQUIREMENT MAY VARY WITH LOCATION. CHECK STATE AND LOCAL CODES IN THE AREA OF INSTALLATION.)
2. OPTIONS AND ADDITIONAL EQUIPMENT ORDERED MAY AFFECT OVERALL DIMENSIONS. DRAWINGS ARE FOR STANDARD BOILER PACKAGE.







300B0374	
REVISION	1
ASME SECTION I, PFTA, 4 PASS, WETBACK, CONNECTIONS TO TOP	

REFERENCE DRAWINGS:

PV:	#301B0886
FR BASE:	#301B0133
FR FLUE BOX:	#301B0133
RR FLUE BOX:	300B0133
BLWR HOUSING:	#315B0112
PLENUM:	#315B0175

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JOHNSTON BOILER COMPANY
FERRYSBURG, MICHIGAN 49409

SHOP SCHEDULE:	PO#
SIZE:	150,000
DRAWN:	BOILER TEMPLATE – 509
CHECKED:	PFTA150-4-150#S
APPROVED:	DWG. NO. 300B0374-01

REV. A

ALL MECHANICAL / HVAC SYSTEMS , COMPONENTS, AND DEVICES TO BE DESIGNED BY A CERTIFIED MECHANICAL CONTRACTOR. ALL INFORMATION ON MECHANICAL PLANS ARE CONCEPTUAL ONLY AND NOT INTENDED TO SERVE AS DESIGN DOCUMENTS

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Gill Engineering Services, Inc.

GARY GILL LICENSE No 51942 STATE OF FLORIDA PROFESSIONAL ENGINEER

Gary Gill
2019.11.27
10:50:37 -05'00'

11/26/2019 7:59:59 PM

email: ggill@gillengineeringservices.com

PROCESS PLANT EXPANSION

LAKE CITY, FL

NETTLES SAUSAGES

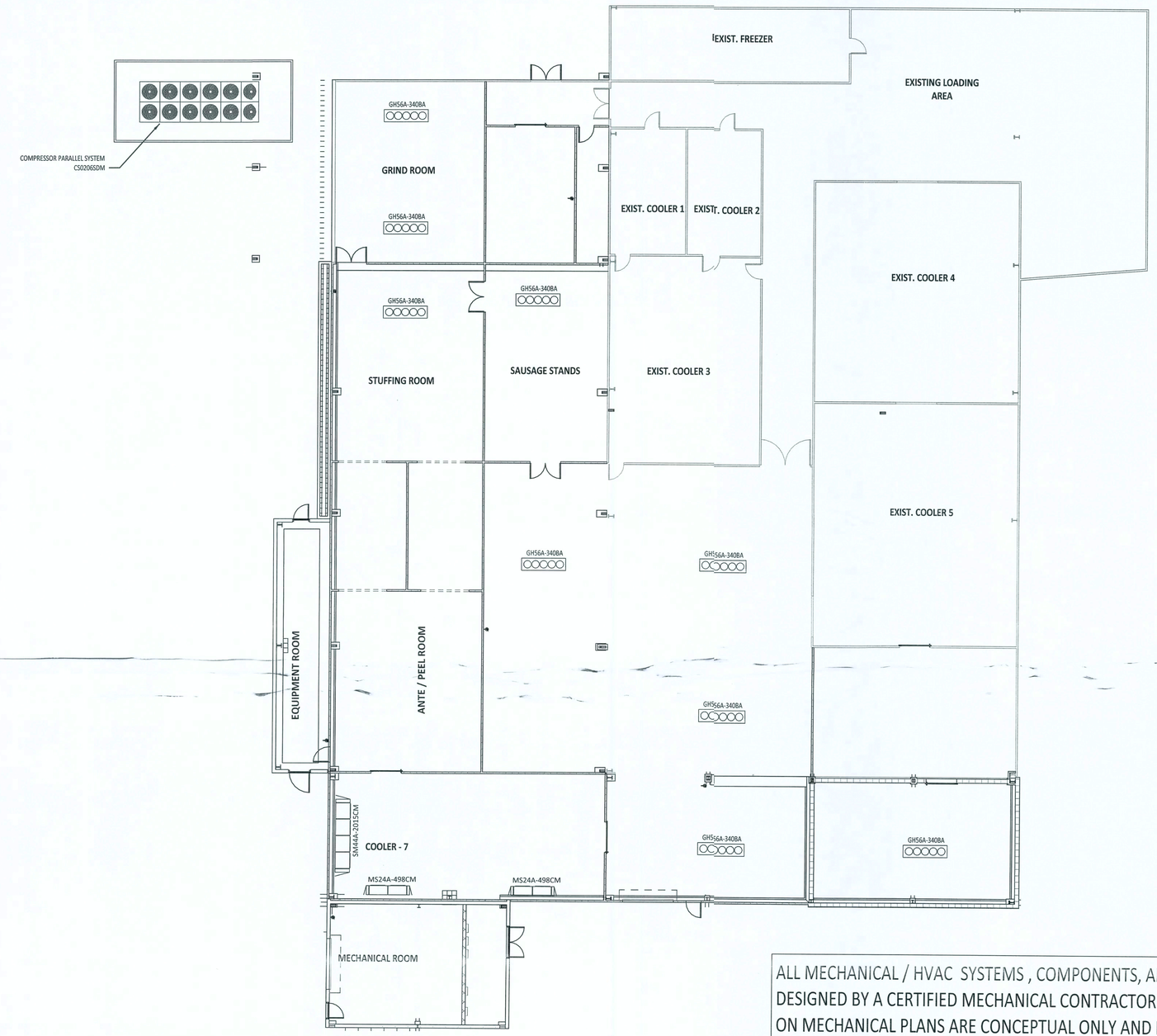
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CHKD BY:	Checker
APPRD BY:	Approver

GILL ENGINEERING SERVICES, INC
AUTH # 30824
GARY GILL PE #51942
426 SW COMMERCE DR 130-M
LAKE CITY, FL 32025 386-590-1242

BOILER PLAN

1809-020	DWG #: M-001	REV #: 1

Revision Schedule		
Revision Number	Revision Description	Revision Date
A	ISSUED FOR APPROVAL	3/15/19
1	ISSUED FOR PERMITTING	11/26/19



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1 REFRIGERANT LAYOUT
3/32" = 1'-0"

11/26/2019 8:00:16 PM

email: ggill@gillengineeringservices.com

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PROCESS PLANT EXPANSION

LAKE CITY, FL

NETTLES SAUSAGES

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GILLENGINEERING SERVICES, INC
AUTH # 30824
GARY GILL PE #51942
4263W COMMERCE DR 130-M
LAKE CITY, FL 32025 386-590-1242

REFRIGERANT LAYOUT

1809-020	DWG #: M-002	REV #: 1

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19

Froztec International, Inc.
11271 Interchange Circle South
Miramar, FL 33025
Tel. (305) 821 5000

Customer
Address
City
Quote Num

Contractor
Sales Engineer
Date

Project: Nettles Lake City, FL

Serial:

	MBH Required	MBH Available	TSE °F	Amp. Fans	Amp. Defrost	Amp. Comp.	Amp. Cond.
Heat							
Medium	1,387.e	1,631.e	25				
Low							
Total							

froztec®
www.froztec.com

Circuit No.	Dimensions	No. Evap.	Model Evaporators	Exp. Valve	Application	Oper. Temp. °F	Capa. Req. MBH	SST °F			Defro. Type	Ball Valves Liq.	Ball Valves Suc.	Ball Valves Defr.	EPR	Solenoid Valves Liquid	Solenoid Valve Hot Gas	Fans Amp.	Fans Volts/Ø	Defrost Heaters Amp.	Defrost Heaters Volts/Ø	Defoggers Amp.	Defoggers Volts/Ø	Equiv. Length ft	Wire Gage Fans	Wire Gage Defr.	Wire Gage Defogg	Contactors Fans	Contactors Defr.	Contactors Defogg	Circuit No.
1		2	GH54A-250BA		GRIND ROOM	50	70.0	35.0			OC	YES	YES		YES	YES		1.7	230/1												
2		2	GH56A-340BA		STIFFING ROOM	50	100.0	35.0			OC	YES	YES		YES	YES		1.7	230/1												
3		2	GH56A-340BA		PROCESS A.1	50	100.0	35.0			OC	YES	YES		YES	YES		1.7	230/1												
4A		2	GH64A-300BA		PROCESS A.2	50	87.0	35.0			OC	YES	YES		YES	YES		2.0	230/1												
4B		2	GH54A-250BA		PROCESS A.3	50	70.0	35.0			OC	YES	YES		YES	YES		1.7	230/1												
5		1	SM4A-2015C		COOLER 1 - BLAST	36	210.0	25.5			OC	YES	YES		YES	YES		8.0	460/3												
6		1	MS24A-498CM		COOLER - HOLDING MODE	36	50.0	26.0			OC	YES	YES		YES	YES		2.2	460/3												
7		1	MS24A-498CM		COOLER 2	36	50.0	26.0			OC	YES	YES		YES	YES		2.2	460/3												
8		1	EXISTANT		OLD SMALL COOLER 1	36	43.0	26.0			OC	YES	YES		YES	YES															
9		1	EXISTANT		OLD SMALL COOLER 2	36	50.0	26.0			OC	YES	YES		YES	YES															
10		1	EXISTANT		OLD COOLER 3 EVAP 1	36	76.0	26.0			OC	YES	YES		YES	YES															
11		1	EXISTANT		OLD COOLER 3 EVAP 2	36	76.0	26.0			OC	YES	YES		YES	YES															
12		1	EXISTANT		OLD BII COOLER 1 EV.1	36	100.0	26.0			OC	YES	YES		YES	YES															
13		1	EXISTANT		OLD BII COOLER 1 EV.2	36	100.0	26.0			OC	YES	YES		YES	YES															
14		1	EXISTANT		OLD BII COOLER 2 EV.1	36	100.0	26.0			OC	YES	YES		YES	YES															
15		1	EXISTANT		OLD BII COOLER 2 EV.2	36	100.0	26.0			OC	YES	YES		YES	YES															

CONTROL AND POWER SUPPLY BREAKERS FOR NEW EVAPORATORS INCLUDED ON RACK PANEL

ONLY CONTROL FOR OLD EVAPORATORS INCLUDED ON RACK PANEL. POWER SUPPLY FOR THESE EVAPORATORS WILL COME FROM A SEPARATE BRAKER PANEL SUPPLIED BY OTHERS

COMPRESSORS

	1	2	3	4	5	6	7	8
Compressor Mod	4DJXR28ML-	4DJNR28ML-	4DJNR28ML-	4JNR28ML-	4DJNR28ML-	4DJNR28ML-	4DJNR28ML-	
Serial								
Capacity MBH	233	233	233	233	233	233	233	
Suction Temp F	25	25	25	25	25	25	25	
H.P.	18	18	18	18	18	18	18	
R.L.A.	30.9	30.9	30.9	30.9	30.9	30.9	30.9	
Breaker	YES	YES	YES	YES	YES	YES	YES	
Contactor	YES	YES	YES	YES	YES	YES	YES	
Wire Gage								
Fan								
Heater	YES	YES	YES	YES	YES	YES	YES	
Unloader	DIGITAL	NO	NO	NO	NO	NO	NO	
Cooling Valve								
Cooling Solenoid								
Muffler								
Suction								
Discharge								
Interstage								
Suction Filter	YES	YES	YES	YES	YES	YES	YES	
Check Valve								
High Pr. Control	YES	YES	YES	YES	YES	YES	YES	
Low Pr. Control	YES	YES	YES	YES	YES	YES	YES	
Oil Control	YES	YES	YES	YES	YES	YES	YES	
Oil Level	YES	YES	YES	YES	YES	YES	YES	
Oil Level Valve	YES	YES	YES	YES	YES	YES	YES	

LIQUID RECEIVER			
Horiz. / Vert.	HORIZONTAL HX	Safety Rv. Valve	YES
Diam. x Length	26" DIA	3 Way Valve	
Aprx. @ 50%		Liquid Level Indic.	YES
In			
Out			

General Specifications		SUCTION	
Refrigerant	R-404A	SST F	
SCT °F	110.7	Manifold Diam	
Ambient °F	95	Suction Accumulator	
Heat of Rejection MBH	2,198.0	Suction Filter	
DISCHARGE		Insulation	
		Pressure Transducer	
Manifold Diam		Temperature Transducer	
Oil Separator	TEMPRITE		
Check Valve		ECONOMIZER	
Discharge Pressure Regulator		ECONOMIZER	
Diam to condenser		Suction Diam	
Diam from condenser		Liquid Diam	
Pressure Transducer		TXV Stage 1	
Temperature Transducer		TXV Stage 2	
LIQUID		Slave Solenoid Valves	
Liquid line size		Capacity	
Manifold Diam		Liquid Temp. °F	
Liquid Line Filter Drier		Evaporating Temp. °F	
Filter Bypass	YES	EPR	
Sight Glass		Pressure Transducer	
Main Ball Valve		Temperature Transducer	
Drainage Regulator			
Insulation		OIL	
		Reservoir	
		Capacity	
		Oil Filter	
		Relief Valve	
		Cooler	
		Transducer	
		Oil Type	

	QTY	Model
Controller	1	CPC-E2-RX400
Relay Boards		
Sensor Boards		
Analog I Boards		
Power Source		
Roan Track's		

CONDENSER	
Model	2XLAVF24410
FPI	15.7
FDI	10
C.F.A.	
No. Motor'S	2x7x4
Volt / Phase	460/3/60
RPM. Motors	1140
Weight	2 X 3700
Valv. In	YES
Valv. Out	YES
No. of Cap Stages	8
Controller	AT RACK
# Contactors	AT COND
Contactor Model	
Equiv. Length	

High	Medium	Low
	YES	YES

POWER SUPPLY	
Main	460/3/60
Control	208-230/1/60

NOTES

RELAYS FOR CONDENSER FANS AT RACK PANEL
BREAKERS AND CONTACTORS FOR CONDENSER FANS AT CONDENSER PANEL

UPDATE™ Version 5.12.10
Product Data: 9/21/2018 (Current)

© 2018 SPX Cooling Technologies, Inc.
11/6/2018 8:23:43 AM

Job Information

Selected by
Froztec International
11271 Interchange Circle South
Miramar FL 33025
alexis.rojas@froztec.com

Alexis Rojas
Tel 954-499-1546

Evaporative Condenser Definition

Manufacturer	Marley	Fan Motor Speed	941 rpm
Product	LC	Fan Motor Capacity per cell	9.000 Hp
Model	LC048AE1	Fan Motor Output per cell	9.000 BHp
Cells	1	Fan Motor Output total	9.000 BHp
Circuits per cell	Standard	Air Flow per cell	28350 cfm
Coil Material	Copper	Air Flow total	28350 cfm
Fan	3.000 ft, 5 Blades	Fan Motor Output per cell	1.500 BHp
Fan Speed	941 rpm, 8868.7 fpm	Pump Water Flow per cell	274.0 gpm
Fans per cell	3		
Pumps per cell	1		
Fill Type	MC120S or equivalent		
Model Group	Quiet Fan, Copper Coil		

Conditions

Refrigerant	R-404A	Air Density In	0.07094 lb/ft³
Total Heat Rejection	2200000 Btu/h	Air Density Out	0.07033 lb/ft³
Condensing Temperature	106.00 °F	Humidity Ratio In	0.01712
Wet-Bulb Temperature	78.00 °F	Humidity Ratio Out	0.03453
Relative Humidity	50.0 %	Wet-Bulb Temp. Out	93.11 °F
Capacity	106.7 %	Estimated Evaporation	4.0 gpm

• This selection satisfies your design conditions.

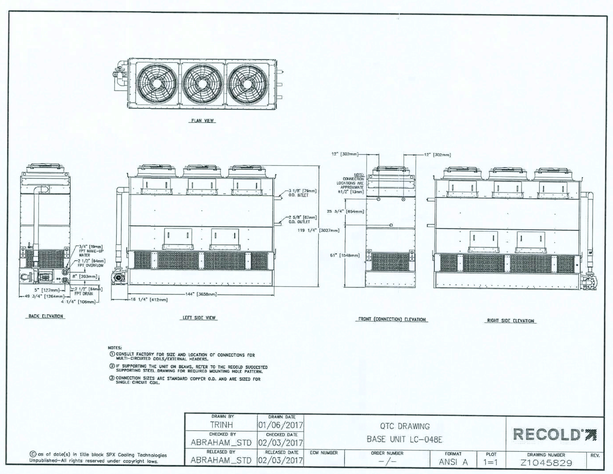
Weights & Dimensions

	Per Cell	Total
Shipping Weight	3900 lb	3900 lb
Heaviest Section	3900 lb	
Max Operating Weight	6500 lb	6500 lb
Width	4'-1 ¾"	4'-1 ¾"
Length	12'	12'
Height	9'-11 ¾"	

Minimum Enclosure Clearance
Clearance required on air inlet sides of tower without altering performance. Assumes no air from below tower.

Solid Wall	3.0 ft
50 %	3.0 ft

Weights and dimensions do not include options; refer to sales drawings. For CAD layouts refer to file LC048LE.dxf



DRAWN BY	DRAWN DATE				
TRINH	01/06/2017	QTC DRAWING		RECOLD	
CHECKED BY	CHECKED DATE	BASE UNIT LC-048E			
ABRAHAM_STD	02/03/2017				
RELEASED BY	RELEASED DATE	COM NUMBER	ORDER NUMBER	FORMAT	PLOT	DRAWING NUMBER	REV.
ABRAHAM_STD	02/03/2017		-/-	ANSI A	1=1	Z1045829	

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froztec
PROJETEC INTERNATIONAL INC.
11271 Interchange Circle South
Miramar, FL 33025. USA.
Phone: (954) 499-1546
Fax: (305) 710-9963
KRACK

QUOTE NUMBER	CQ220218B #2

DATE	NOVEMBER 6 2018

CUSTOMER INFORMATION	
CONTACT	GOY DU PREE
COMPANY	COLUMBIA CONSTRUCTION & MAINTENANCE, INC.
ADDRESS	NETTLES PLANT EXPANSION PROJECT 1944 E. DUVAL STREET LAKE CITY, FL 32025

NITAS	
PAYMENT TERMS	50% DEPOSIT 50% BEFRE FACTORY SHIPMENT
LEAD TIME	10 TO 12WEEKS
NOTES	INSTALLATION NOT INCLUDED ONLY EQUIPMENT AS DESCRIBED

ITEM	QTY	DESCRIPTION	UNITARY	TOTAL
1	1	**PARALLEL COMPRESSOR RACK SYSTEM MODEL CM2060LOW** INCLUDING: * SUCTION GROUP 1 7 X COPELAND DISCUS 4DJR28H-04 AT 24F SST * FIFTEEN (15) EVAPORATOR CIRCUITS WITH EPR, LIQUID AND SUCTION VALVES * EMERSON CPC E2 CONTROLLER WILL MONITOR AND CONTROL ALL THE OPERATION OF COMPRESSORS, EVAPORATORS, ROOM TEMPERATURES AND CONDENSER *COMPLETE ELECTRICAL PANEL FOR POWER AND CONTROL OF THE COMPRESSORS * COMPLETE ELECTRICAL PANEL FOR POWER AND CONTROL OF THE EVAPORATORS * ONE SUCTION ACCUMULATOR PER SUCTION GROUP *OIL SEPARATOR EN RESERVIOR WITH OIL MANAGEMENT SYSTEM **POWER SUPPLY 460v/3PH/60HZ, REFRIGERANT R-404A**	$ 18,500.00	$ 185,500.00
2	1	**OPTIONAL FIVE YEAR COMPRESSOR WARRANTY**	$ 5,500.00	$ 5,500.00
3	1	**FACTORY TECHNITIAN 1 WEEK STARTUP SERVICE**	$ 8,000.00	$ 8,000.00
4	1	**SPX Marley Evaporative Condenser model LC048AE1** INCLUDING: *POWER ELECTRICAL PANEL FACTORY MOUNTED WITH BREAKERS AND FOR EACH FAN **POWER SUPPLY 460v/3PH/60HZ**	$ 5,700.00	$ 56,700.00
5	4	**KRACK PROCESS ROOM EVAPORATORS MODEL GH54A-250BA** POWER SUPPLY 208-230V/1PH/60HZ EXPANSION VALVE FACTORY INSTALLED LOCATION GRIND ROOM AND PROCESS AREA 3	$ 1,927.60	$ 11,750.40
6	4	**KRACK PROCESS ROOM EVAPORATORS MODEL GH56A-340BA** POWER SUPPLY 208-230V/1PH/60HZ EXPANSION VALVE FACTORY INSTALLED LOCATION STUFFING ROOM AND PROCESS AREA 1	$ 1,964.00	$ 11,856.00
7	2	**KRACK PROCESS ROOM EVAPORATORS MODEL GH64A-300BA** POWER SUPPLY 208-230V/1PH/60HZ EXPANSION VALVE FACTORY INSTALLED LOCATION PROCESS AREA 2	$,224.00	$ 6,448.00

froztec
PROJETEC INTERNATIONAL INC.
11271 Interchange Circle South
Miramar, FL 33025. USA.
Phone: (954) 499-1546
Fax: (305) 710-9963
KRACK

QUOTE NUMBER	CQ220218B #2

DATE	NOVEMBER 6 2018

CUSTOMER INFORMATION	
CONTACT	GOY DU PREE
COMPANY	COLUMBIA CONSTRUCTION & MAINTENANCE, INC.
ADDRESS	NETTLES PLANT EXPANSION PROJECT 1944 E. DUVAL STREET LAKE CITY, FL 32025

NOTAS	
PAYMENT TERMS	50% DEPOSIT 50% BEFORE FACTORY SHIPMENT
LEAD TIME	10 TO 12 WEEKS
NOTES	INSTALLATION NOT INCLUDED ONLY EQUIPMENT AS DESCRIBED

ITEM	QTY	DESCRIPTION	UNITARY	TOTAL
8	1	**KRACK HIGH AIR FLOW EVAPORATOR MODEL GH44A-315SCM** POWER SUPPLY 460V/3PH/60HZ EXPANSION VALVE FACTORY INSTALLED LOCATION COOLER 1 BLAST OPERATION	$ 10,296.00	$ 10,296.00
9	2	**KRACK MEDIUM PROFILE EVAPORATOR MODEL MS24A-498CM** POWER SUPPLY 460V/3PH/60HZ EXPANSION VALVE FACTORY INSTALLED LOCATION COOLER 2 HOLDING OPERATION AND COOLER 2	$ 3,125.00	$ 6,345.00

DELIVERY AND SHIPMENT TERMS
ALL EQUIPMENT QUOTED IS DELIVERED IN LAKE CITY, FL FREIGHT PREPAID

TOTAL	$ 220,250.40
Sales Tax 6%	$ 13,215.02

PROJETEC CONTACT INFORMATION		
NAME	BYRON LAUREANO	EMAIL
EQUIPAR	305.509.7296	Byron.laureano@froztec.com

www.froztec.com

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PROCESS PLANT EXPANSION
LAKE CITY, FL

NETTLES SAUSAGES

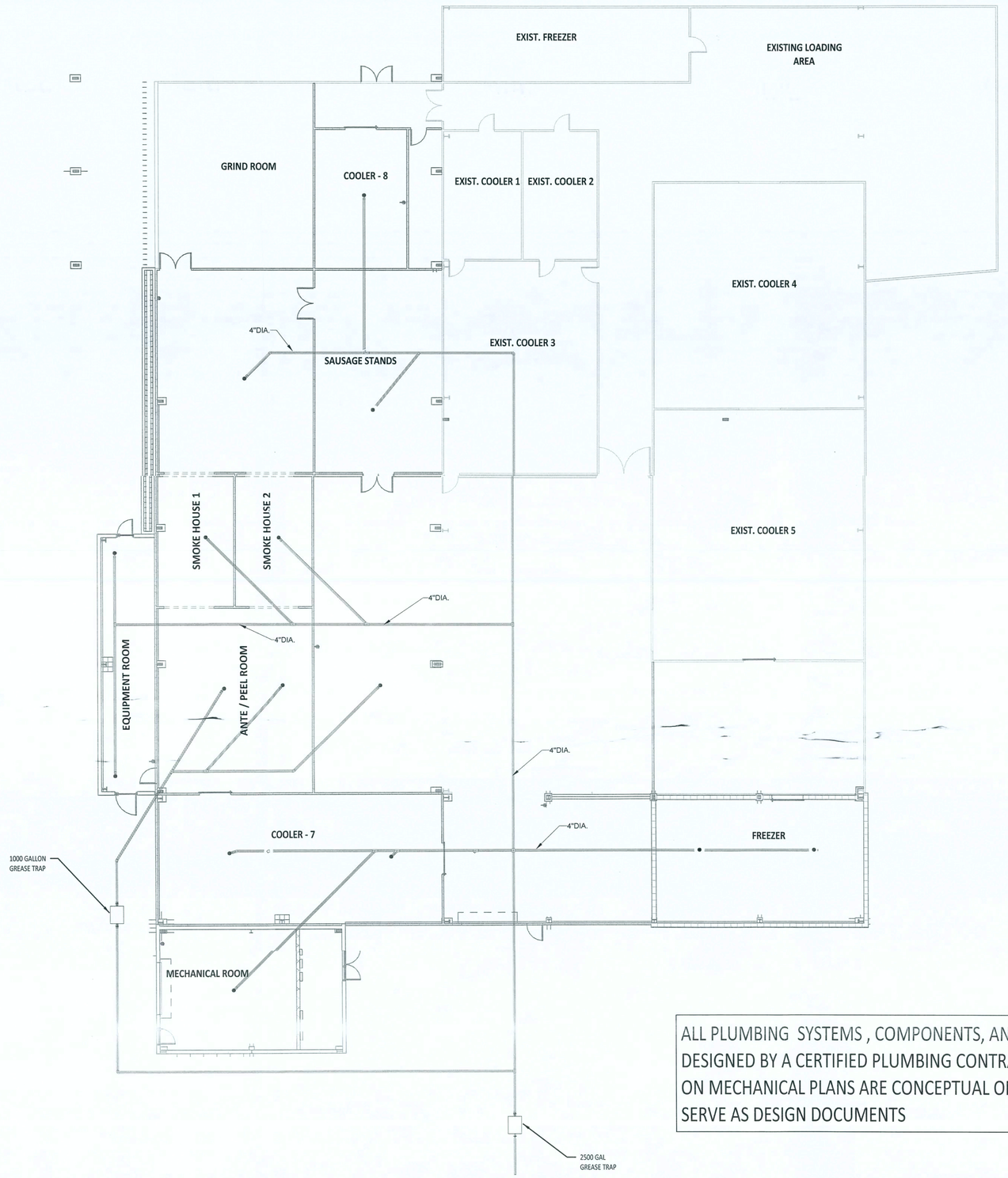
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CHKD BY:	Checker
APPRD BY:	Approver

GILL ENGINEERING SERVICES, INC
AUTH # 30824
GARY GILL PE #51942
426 SW COMMERCE DR 130-M
LAKE CITY, FL 32025 386-590-1242

REFRIGERANT EQUIPMENT

1809-020	DWG #: M-003	REV #: 1

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ISSUED FOR PERMITTING	11/26/19



1 PLUMBING PLAN
3/32" = 1'-0"

6"x6" FLOOR DRAIN W/ STRAINER

75 GAL WATER HEATER

PLUMBING FIXTURES
1/4" = 1'-0"

ALL PLUMBING SYSTEMS , COMPONENTS, AND DEVICES TO BE DESIGNED BY A CERTIFIED PLUMBING CONTRACTOR. ALL INFORMATION ON MECHANICAL PLANS ARE CONCEPTUAL ONLY AND NOT INTENDED TO SERVE AS DESIGN DOCUMENTS

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Gary Gill
2019.11.27
10:54:45 -05'00'

PROCESS PLANT EXPANSION

LAKE CITY, FL

NETTLES SAUSAGES

DRAWN BY:	Author
CHKD BY:	Checker
APPRD BY:	Approver

GILL ENGINEERING SERVICES, INC
AUTH # 30824
GARY GILL PE #51942
426 SW COMMERCE DR 130-M
LAKE CITY, FL 32025 386-590-1242

SANITARY LINES

1809-020	DWG #: P-001	REV #: 1

GENERAL NOTES

FABRICATION SHALL BE IN ACCORDANCE WITH ELITE STRUCTURES STANDARD PRACTICES AND IN COMPLIANCE WITH THE APPLICABLE SECTIONS, RELATING TO DESIGN REQUIREMENTS AND ALLOWABLE STRESSES OF THE LATEST EDITION OF THE "AWS STRUCTURAL WELDING CODE D 1.1 AND D1.3"

MATERIALS	ASTM DESIGNATION	MIN. YIELD STRENGTH
HOT ROLLED STEEL SHAPES	A572	FY = 50 KSI
STEEL PIPES	A500	FY = 42 KSI
STRUCTURAL TUBING	A500	FY = 46 KSI
STRUCTURAL STEEL WEB PLATE	A572/A1011	FY = 50 KSI
STRUCTURAL STEEL FLANGE PLATES/BARS	A529/A572	FY = 55 KSI
COLD FORM LIGHT GAUGE	A653/A1011	FY = 50, 55 KSI
ROOF AND WALL SHEETS	A792/A653	FY = 50, 80 KSI
CABLE BRACE	A475- TYPE1	EXTRA HIGH STRENGTH
ROD BRACE	A36	FY = 36 KSI
MILL SECTIONS	A36	FY = 36 KSI
		MIN. TENSILE STRENGTH
MACHINE BOLTS & NUTS	A307	FU = 60 KSI
HIGH STRENGTH BOLTS (1" DIA. & LESS)	A325 - TYPE 1	FU = 120 KSI
HIGH STRENGTH BOLTS (>1" TO 1-1/2")	A325 - TYPE 1	FU = 105 KSI
ANCHOR BOLTS (IF SUPPLIED)	F1554 - GR36	

CLOSURE STRIPS ARE FURNISHED ONLY IF NOTED ON SHIPPING DOCUMENTS

INSIDE - UNDER ROOF PANELS AT EAVE
OUTSIDE - BETWEEN END WALL PANELS AND RAKE TRM
UNDER CONTINUOUS RIDGE VENT SKIRTS

ERECTION NOTE:

ALL BRACING, STRAPPING, & BRIDGING SHOWN AND PROVIDED BY ELITE STRUCTURES FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE. IF ADDITIONAL BRACING IS REQUIRED FOR STABILITY DURING ERECTION, IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO DETERMINE THE AMOUNT OF SUCH BRACING AND TO PROCURE AND ISTALL AS NEEDED..

ERECTION AND UNLOADING NOT BY ELITE STRUCTURES

SHORTAGES

ANY CLAIMS OR SHORTAGES BY BUYERS MUST BE MADE TO ELITE STRUCTURES AT TIME OF DELIVERY, OR SUCH CLAIMS SHALL BE CONSIDERED WAIVED BY THE CUSTOMER AND DISALLOWED IF MATERIAL IS SHOWN DELIVERED

CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10)

CLAIMS FOR CORRECTIONS OF ALLEGED MISFITS WILL BE DISALLOWED UNLESS ELITE STRUCTURES SHALL HAVE RECEIVED PRIOR NOTICE THEREOF AND ALLOWED REASONABLE INSPECTION OF SUCH MISFITS. THE CORRECTION OF MINOR MISFITS BY THE USE OF DRIF PINS TO DRAW THE COMPONENTS INTO LINE, MODERATE AMOUNTS OR REAMING, CHIPPING AND CUTTIN, AND THE REPLACEMENT OF MINOR SHORTAGES OF MATERIAL ARE A NORMAL PART OF ERECTION AND AE NOT SUBJECT TO CLAIM.

A-325 BOLT TIGHTENING REQUIREMENTS

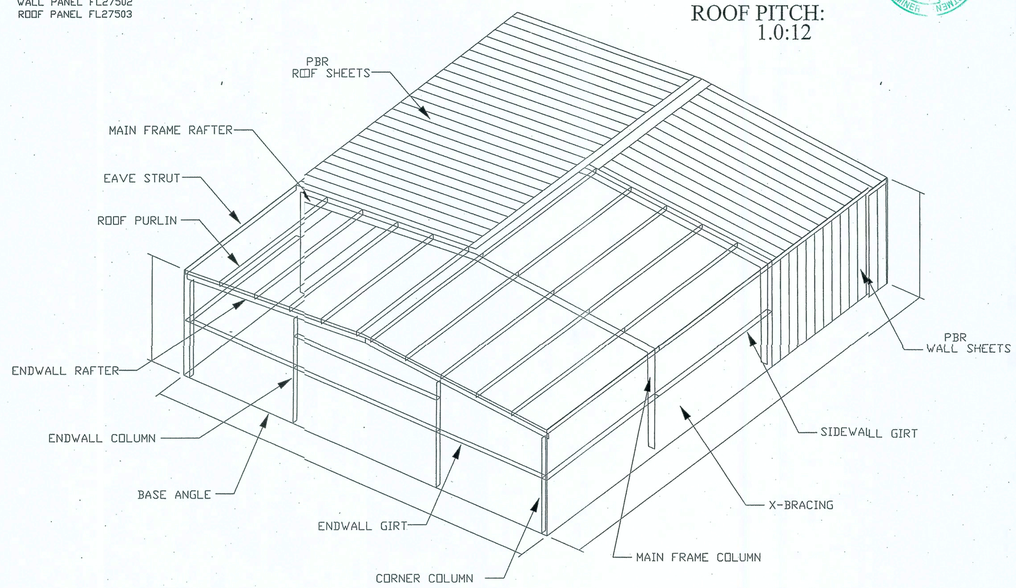
ALL BOLTED JOINTS WITH A325-09 TYPE 1 BOLTS ARE SPECIFIED 6 SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE SPECIFICATION OR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 30,2004. PRETENSIONING METHODS, INCLUDING TURN-OF-NUT,CALIBRATED WRENCH,TWIST OFF TYPE TENSION CONTROL BOLTS OR DIRECT TENSION INDICATOR ARE NOT REQUIRED, INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT (SPECIFICATION FOR STRUCTURAL JOINTS 9.1) IS SUGGESTED.

REFERENCE: STEEL CONSTRUCTION MANUAL
AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC.
THIRTEENTH EDITION (AISC)

FLORIDA PRODUCT APPROVAL NUMBER - ELITE STRUCTURES 26 GAUGE PBR PANEL

WALL PANEL FL27502
ROOF PANEL FL27503

ROOF PITCH:
1.0:12



BUILDING IRAWING FOR ILLUSTRATION ONLY

401 OLD QUITMAN RD.
ADEL, GA. 31620
229-896-7569

39105

DATE: 5/16/17

ELITE STRUCTURES

ELITE-STRUCTURES.COM

CONSTRUCTION MANUAL AVAILABLE ONLINE
WWW.ELITE-STRUCTURES.COM

PROJECT:
NETTLES SAUSAGE CO.
ATTN: BILLY NETTLES

PROJECT MANAGER
LEE WHITEHURST

LOCATION:
LAKE CITY, FL.

BUILDING DESCRIPTION:
BUILDINGS VARY

COLUMBIA COUNTY BUILDING DEPARTMENT — Received for File Copy — Code Compliance — PLANS EXAMINER

LOCAL BUILDING CODE:	FBC 17
ENCLOSURE TYPE:	Closed
BUILDING RISK CATAGORY	II - Normal
LOAD REDUCTION USED:	Yes
LIVE LOAD TO FRAMES:	12
LIVE LOAD TO PURLINS:	20.00
DEAD LOAD:	2.500
COLLATERAL LOAD:	4
SNOW LOAD (GROUND):	0
SNOW LOAD (ROOF):	0
WIND SPEED:	120
WIND EXPOSURE:	B
SEISMIC ZONE:	B
SEISMIC IMPORTANCE:	1.00
SPECTRAL RESPONSE Ss	0.09
SPECTRAL RESPONSE S1	0.05
RAIN INTENSITY: 5 yr.	10
25 yr.	11.0000

DESIGN SPECIFICATIONS
FOR
JOB ID: 10236

BUYER/CUSTOMER RESPONSIBILITIES

APPROVAL OF ELITE STRUCTURES DRAWINGS AND CALCULATIONS INDICATES THAT ELITE STRUCTURES HAS CORRECTLY INTERPRETED AND APPLIED THE CONTRACT DOUCUMENTS. THIS APPROVAL CONSTITUTES THE CONTRACTOR/OWNER ACCEPTANCE OF THE ELITE STRUCTURES DESIGN CONCEPT, ASSUMPTIONS, AND LOADING.
(SECTION 4 AISC CODE 9TH EDITION AND MBMA 3.3.3)

ONCE THE BUYER/END USE CUSTOMER HAS SIGNED ELITE STRUCTURES APPROVAL PACKAGE AND THE PROJECT IS RELEASED FOR FABRICATION, CHANGES SHALL BE BILLED TO THE BUYER/END USE CUSTOMER INCLUDING MATERIAL, ENGINEERING AND OTHER COSTS. AN ADDITIONAL FEE MAY BE CHARGED IF THE PROJECT MUST BE MOVED FROM THE FABRICATION AND SHIPPING SHEDULE.

THE BUYER/END USE CUSTOMER IS RESPONSIBLE FOR OVERALL PROJECT COORDINATION. ALL INTERFACE, COMPATIBILITY AND DESIGN CONSIDERATIONS CONCERNING ANY MATERIAL NOT FURNISHED BY ELITE STRUCTURES ARE TO BE CONSIDERED AND COORDINATED BY THE BUYER/END CUSTOMER. SPECIFIC DESIGN CRITERIA CONCERNING THIS INTERFACE BETWEEN MATERIALS MUST BE FURNISHED BEFORE RELEASE FOR FABRICATION OR ELITE STRUCTURES ASSUMPTIONS WILL GOVERN (SECTION 4 AND COMMENTARY, AISC CODE OF STANDARD 9TH EDITION)

IT IS THE RESPONSIBILITY OF THE BUYER/END CUSTOMER TO INSURE THAT ELITE STRUCTURES PLANS COMPLICES WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT ELITE STRUCTURES OR ITS DESIGN ENGINEERS ARE ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT. THESE DRAWINGS ARE SEALED ONLY TO CERTIFY THE DESIGN OF THE STRUCTURAL COMPONENTS FURNISHED BY ELITE STUCTURES

THE BUYER/ END CUSTOMER IS RESPOSIBLE FOR SETTING OF ANCHOR BOLTS AND ERECTION OF THE STEEL IN ACCORDANCE WITH ELITE STRUCTURES "FOR CONSTRUCTION" DRAWINGS ONLY. TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSEWORK, COUBING OR OTHER ELEMENTS REQUIRED FOR ERECTION OPERATION SHALL BE DETERMINED FURNISHED AND INSTALLED BY ERECTOR. NO ITEMS SHOULD BE PURCHASED FROM A PRELIMINARY SET OF DRAWINGS, INCLUDING ANCHOR BOLTS. USE ONLY FINAL "FOR CONSTRUCTION DRAWINGS" FOR THE USE.
(SECTION 7 AISC CODE OF STANDARD 9TH EDITION)

ELITE STRUCTURES IS RESPONSIBLE FOR THE DESIGN OF THE ANCHOR BOLTS TO PERMIT THE TRANSFER OF FORCES BETWEEN THE BASE PLATE AND ANCHOR BOLT IN SHEAR, BEARING AND TNSION, BUT IS NOT RESPONSIBLE FOR THE TRANSFER OF ANCHOR BOLT FORCES TO THE CONCRETE OR THE ADEQUACY OF THE ANHOR BOLT IN RELATION TO THE CONCRETE.

UNLESS OTHERWISE PROVIDED IN THE ORDER DOCUMENT, ELITE STRUCTURES DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN , MATERIAL AND CONSTRUCTION OF THE FOUNDATION OR FOUNDATION EMBEDMENT. THE END USE CUSTOMER SHOULD ASSURE HIMSELF THAT ADEQUATE PROVISIONS ARE MADE IN THE FOUNDATION DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE BUILDING, OTHER IMPOSED LOADS, AND BEARING CPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE.

NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTIONS OF MINOR MISFITS BY MODERATE AMOUNTS OF REAMING, CHIPPING, WELDING OR CUTTING, AND THE DRAVING OF ELEMENTS INTO LINE THROUGH THE USE OF DRIFT PINS. ERRORS WHICH CANNOT BE CORRECTED BY FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN MEMBERS CONFIGURATION ARE TO REPORT IMMEDIATELY TO ELITE STRUCTURES BY THE BUYER/ END USE CUSTOMER, TO ENABLE WHOEVER IS RESPONSIBLE EITHER TO CORRECT THE ERROR OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE USED BY OTHERS.
(SECTION 7 AISC CODE OF STANDARD 9TH EDITION)

ENGINEERING SEAL

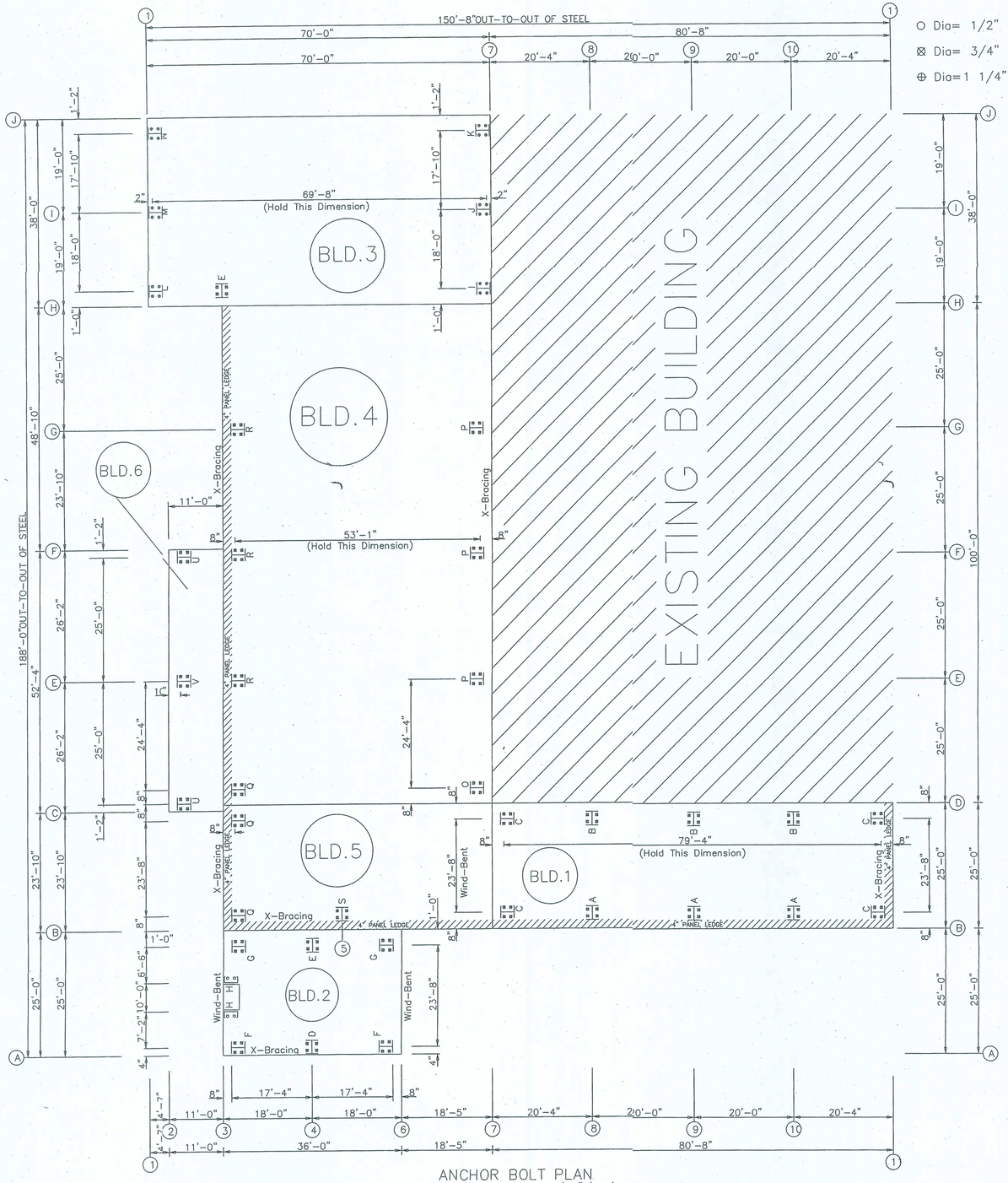
THIS CERTIFICATION COVERS PARTS MANUFACTURED AND DELIVERED BY ELITE STRUCTURES ONLY

Gregory S. Barfield, P.E.
2149 Nell Purvis Road
Adel, GA 31620
P.E. # 54419

GREGORY S. BARFIELD — LICENSE No 54419 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

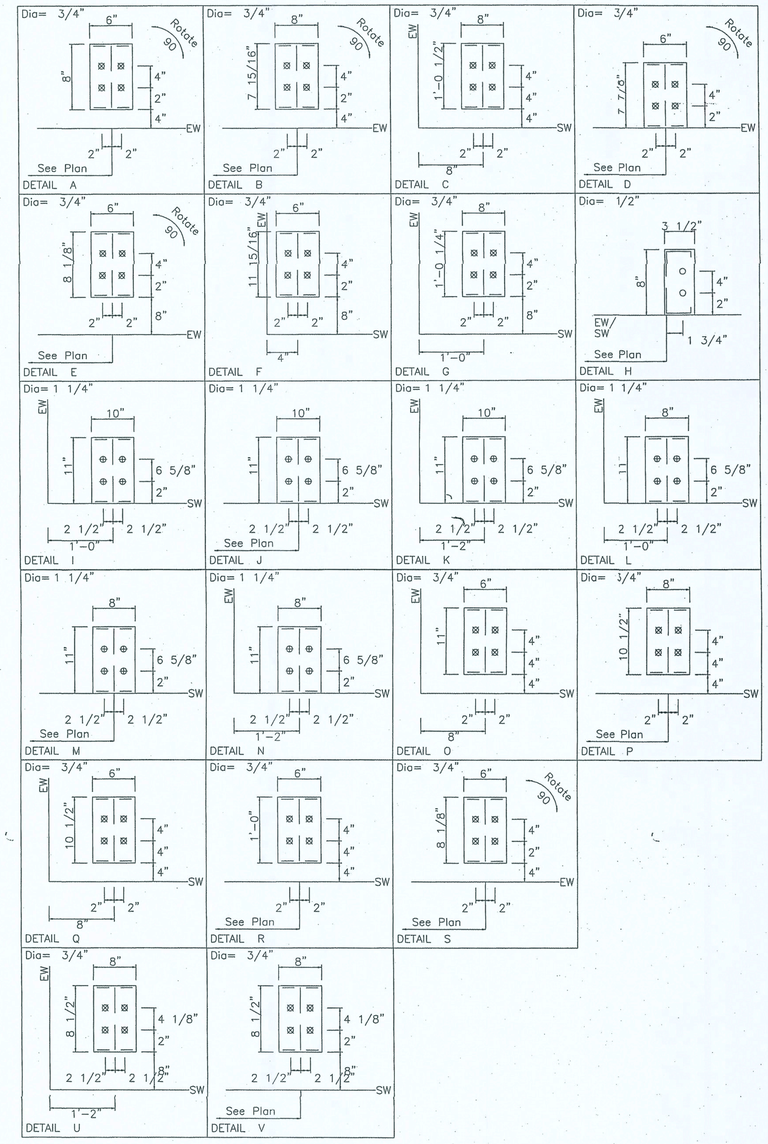
10-3-19

SEALING OF THESE DRAWINGS DOES NOT IMPLY OR CONSTITUTE THAT ELITE STRUCTURES ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THE THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY ELITE STRUCTURES IS INCLUDED. FOUNDATIONS ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN ELITE STRUCTURES ARE SPECIFICALLY EXCLUDED, NO INSPECTION OR SUPERVISION IS IMPLIED.



ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)

○ Dia= 1/2"
⊠ Dia= 3/4"
⊕ Dia=1 1/4"



DESIGN CRITERIA

BUILDING CODE:	FBC	17
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20.00	PSF
COLLATERAL LOAD:	4	PSF
SNOW LOAD (GROUND)	0	PSF
WIND SPEED: (ULTIMATE)	120	MPH
WIND EXPOSURE:	B	
BUILDING RISK CATEGORY	II - Normal	
ENCLOSURE CLASSIFICATION	Enclosed	

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10-3-19

ELITE STRUCTURES
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 5/16/17
DRAWN BY: B.BROWN | SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES

REVISION

DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

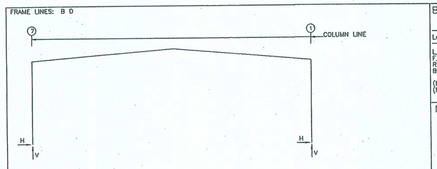
TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

PLAN:
ANCHOR BOLT PLAN

JOB # 10236-AB
SHEET 1 OF 12

BLD.1

FRAME LINES: B D



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
B*	7	1	4.3	14.8	3	-2.6	-2.9	4	0.750	8.000	12.0	0.500	0.0
					4	1.0	-11.8						
B*	11	2	4.4	-4.7	1	-8.1	11.8	4	0.750	8.000	12.0	0.500	0.0
		1	-8.1	11.8	5	2.5	-8.9						

B* Frame lines: B D

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
B*	7	1.9	2.5	1.6	2.2	4.6	6.2	4.2	-12.5	0.4	-2.9	5.3	-2.2
B*	11	-1.6	2.9	-1.6	2.2	-6.8	6.7	3.6	-7.7	8.9	-10.7	1.2	-2.5

Frame Line	Column Line	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert	Seismic_Long Horiz	Seismic_Long Vert
B*	7	-0.1	-2.9	0.8	-23.1	0.3	-21.5	-0.3	0.2	0.3	-0.2	0.0	-0.6
B*	11	6.5	-5.9	6.1	-16.1	5.8	-17.7	-0.3	0.2	0.3	-0.2	0.0	-1.1

B* Frame lines: B D

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horiz	Wind Suct Horiz
B	8	0.3	-4.5	5.0
B	9	0.3	-4.5	5.0
B	10	0.3	-4.5	5.0
B	11	0.6	-4.5	5.0
D	9	0.6	-4.5	5.0
D	8	0.6	-4.5	5.0

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
B	8	7	3.0	0.3	8	-2.7	0.2	4	0.750	6.000	8.00	0.375	0.0
		9	3.0	0.3									
B	9	7	3.2	0.3	8	-2.9	0.2	4	0.750	6.000	8.00	0.375	0.0
		9	3.2	0.3									
B	10	7	3.0	0.3	8	-2.7	0.2	4	0.750	6.000	8.00	0.375	0.0
		9	3.0	0.3									
D	10	7	3.0	0.3	8	-2.7	0.3	4	0.750	8.000	7.98	0.375	0.0
		6	0.0	0.9									
D	9	7	3.2	0.4	8	-2.9	0.4	4	0.750	8.000	7.98	0.375	0.0
		6	0.0	0.6									
D	8	7	3.0	0.3	8	-2.7	0.3	4	0.750	8.000	7.98	0.375	0.0
		6	0.0	0.6									

BUILDING BRACING REACTIONS

Wall Loc	Col Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	B								(h)
F_SW	11	B,D	8.0	7.2	0.4	0.4			
R_EW	D								(h)
B_SW	7	B,D	6.4	11.7	0.3	0.6			(b)

(b)Wind bent in bay, base above finish floor
(h)Rigid frame at endwall

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	80.7
Length (ft)	=	25.0
Eave Height (ft)	=	23.5/ 23.5
Roof Slope (rise/12)	=	1.0/ 1.0
Dead Load (psf)	=	2.5
Collateral Load (psf)	=	4.0
Roof Live Load(psf)	=	12.0
Frame Live Load(psf)	=	12.0
Wind Speed (mph)	=	120.0
Wind Code	=	FBC 17 (IBC 15)
Exposure	=	B
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (Fa*Ss)	=	0.15

ID Description

1 Dead+Collateral+Live
2 0.6Dead+0.6Wind_Right1
3 0.6Dead+0.6Wind_Left2
4 0.6Dead+0.6Wind_Long1L
5 *0.6Dead+0.6Wind_Long2L*
6 1.01Dead+1.01Collateral+0.53Seismic_LongR
7 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
8 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
9 Dead+0.6Wind_Right2+0.6Wind_Suction

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
⊠ 24	Endwall	3/4"	GR36	2.50
⊠ 16	Frame	3/4"	GR36	2.50

BLD.2

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Press Horiz	Wind_Press Vert
A	3	0.5	0.4	1.8	2.2	-4.4	0.0	2.0	2.2	-3.6	0.0	2.5	-1.5	-2.0
A	4	1.1	1.1	5.3	0.0	-4.0	2.9	-6.9	0.0	-1.8	2.7	-4.5	-3.2	0.0
A	6	0.8	0.4	1.8	0.0	-1.9	0.0	-1.3	0.0	-1.3	0.0	-0.7	-1.5	-2.0

Frm Line	Col Line	Wind_Suct Horiz	Wind_Suct Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seis_Left Horiz	Seis_Left Vert	Seis_Right Horiz	Seis_Right Vert	Seis_Long Horiz	Seis_Long Vert	E1PAT_LL_1– Horiz	E1PAT_LL_1– Vert
A	3	0.0	2.0	0.0	-1.0	0.0	-0.6	0.5	-0.5	0.0	0.6	-0.1	-0.1	0.0	2.0
A	4	3.5	0.0	0.9	-7.2	0.0	-4.3	0.0	0.5	0.5	-0.6	0.0	0.0	0.0	2.7
A	6	0.0	2.5	0.0	-2.1	0.0	-1.3	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.3

Frm Line	Col Line	E1PAT_LL_2– Horiz	E1PAT_LL_2– Vert
A	3	0.0	-0.3
A	4	0.0	2.7
A	6	0.0	2.1

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Press Horiz	Wind_Press Vert
B	8	0.8	0.4	1.8	0.0	-1.4	0.0	-2.0	0.0	-0.7	0.0	-1.4	-1.5	-2.5
B	4	1.3	1.1	5.5	2.9	-7.1	0.0	-4.1	3.0	-4.9	0.0	-2.4	-3.9	0.0
B	3	0.8	0.4	1.8	0.0	-2.1	2.3	-4.5	0.0	2.9	1.8	-3.2	-1.5	-2.0

Frm Line	Col Line	Wind_Suct Horiz	Wind_Suct Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seis_Left Horiz	Seis_Left Vert	Seis_Right Horiz	Seis_Right Vert	Seis_Long Horiz	Seis_Long Vert	E2PAT_LL_1– Horiz	E2PAT_LL_1– Vert
B	6	0.0	2.5	0.0	-2.1	0.0	-1.3	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	2.1
B	4	4.3	0.0	0.9	-7.4	0.0	-4.6	0.0	-0.8	0.0	0.6	0.0	0.0	0.0	2.7
B	3	0.0	2.0	0.0	-1.1	0.0	-0.6	0.0	0.6	0.5	-0.6	-0.1	-0.1	0.0	-0.3

Frm Line	Col Line	E2PAT_LL_2– Horiz	E2PAT_LL_2– Vert
B	8	0.0	2.8
B	4	0.0	2.1
B	3	0.0	2.8

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
A	3	1	0.0	-2.3	2	-0.9	-1.5	4	0.750	6.000	11.94	0.375	0.0
		3	0.0	4.3	4	0.0	-2.3						
A	4	4	2.1	-3.6	2	-1.9	-3.6	4	0.750	6.000	7.875	0.375	0.0
		5	0.0	7.5	4	2.1	-3.6						
A	6	6	0.0	-0.9	2	-0.9	-2.4	4	0.750	6.000	11.94	0.375	0.0
		3	0.0	3.1									
B	6	6	0.0	-0.8	2	-0.9	-2.3	4	0.750	8.000	12.25	0.375	0.0
		7	0.0	3.4									
B	4	4	2.6	-3.7	2	-2.4	-3.7	4	0.750	6.000	8.125	0.375	0.0
		5	0.0	7.9	4	2.6	-3.7						
B	3	8	0.0	-2.2	2	-0.9	-1.4	4	0.750	8.000	12.25	0.375	0.0
		7	0.0	4.7	8	0.0	-2.2						

BUILDING BRACING REACTIONS

Wall Loc	Col Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	A		3.4	2.9	3.1	0.2	0.2		
F_SW	6	A,B	1.6	2.5	0.1	0.1			(b)
R_EW	B		4.3	3.0	3.2	0.2	0.2		
B_SW	3	A,B	1.5	2.0	0.1	0.1			(b)

(b)Wind bent in bay, base above finish floor

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
⊠ 4	Jamb	1/2"	GR36	1.50
⊠ 24	Endwall	3/4"	GR36	2.50

NOTES FOR REACTIONS

Building reactions are based on the following building data:

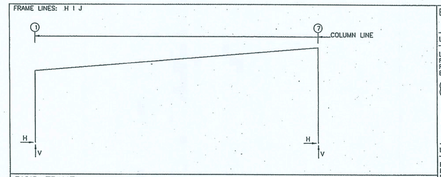
Width (ft)	=	36.0
Length (ft)	=	25.0
Eave Height (ft)	=	19.0/ 22.0
Roof Slope (rise/12)	=	1.0
Dead Load (psf)	=	2.5
Collateral Load (psf)	=	4.0
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	120.0
Wind Speed (mph)	=	FBC 17 (IBC 15)
Wind Code	=	B
Exposure	=	C
Closed/Open	=	1.00
Importance Wind	=	1.00
Importance Seismic	=	B
Seismic Zone	=	0.15
Seismic Coeff (Fa*Ss)		

ID Description

1 0.6Dead+0.6Wind_Left1
2 0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
3 Dead+Collateral+0.75Live+0.45Wind_Right2+0.45Wind_Suction
4 0.6Dead+0.6Wind_Suction+0.6Wind_Long1L
5 Dead+Collateral+Live
6 0.6Dead+0.6Wind_Long1L
7 Dead+Collateral+0.75Live+0.45Wind_Left2+0.45Wind_Suction
8 0.6Dead+0.6Wind_Right1

BLD.3

FRAME LINES: H I J



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
H*	1	1	8.1	10.2	2	-3.8	-4.5	4	1.250	8.000	11.00	1.000	0.0
H*	7	3	2.8	-2.5	1	-8.1	10.6	4	1.250	10.00	11.00	1.000	0.0
		1	-8.1	10.6	4	1.8	-4.1						

H* Frame lines: H J

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
I	1	1	10.3	15.7	2	-6.6	-7.5	4	1.250	8.000	11.00	1.000	0.0
I	7	3	4.6	-4.4	1	-10.3	15.2	4	1.250	8.000	11.00	1.000	0.0
		1	-10.3	16.2	4	3.4	-7.0						

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
H*	1	1.2	2.4	1.2	2.0	3.7	5.9	-7.6	8.9	-0.7	-3.1	-6.6	-6.0
H*	7	-1.2	2.7	-1.2	2.0	-3.7	5.9	3.0	-6.9	5.6	-0.8	2.0	-5.0
I	1	1.9	3.2	2.1	3.1	6.3	9.4	-12.8	-15.8	-1.7	-8.0	-10.9	-9.5
I	7	-1.9	3.5	-2.1	3.2	-6.3	9.4	5.5	-14.1	9.8	-10.9	3.6	-8.0

Frame Line	Column Line	Wind_Right2– Horiz	Wind_Right2– Vert	Wind_Long1– Horiz	Wind_Long1– Vert	Wind_Long2– Horiz	Wind_Long2– Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
H*	1	0.8	-1.2	-3.8	-8.3	-3.8	-8.3	-0.2	-0.1	0.2	0.1
H*	7	4.3	-3.0	4.2	-9.5	4.2	-9.5	-0.2	0.1	0.2	-0.1
I	1	0.8	-1.5	-6.8	-14.8	-6.8	-14.8	-0.3	-0.1	0.3	0.1
I	7	7.4	-4.7	7.5	-15.2	7.5	-15.2	-0.2	0.1	0.2	-0.1

H* Frame lines: H J

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horiz	Wind Suct Horiz
H	3	0.3	-7.0	7.7

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
H	3	5	4.6	0.2	6	-4.2	0.2	4	0.750	6.000	8.125	0.375	0.0
		7	4.6	0.3									

BUILDING BRACING REACTIONS

Wall Loc	Col Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	H								(h)
F_SW	7								(h)
R_EW	I								(e)
B_SW	1	H	1.8	1.5	0.1	0.1			(e)
		I	1.8	1.5	0.1	0.1			(e)
B_SW	2	H	1.8	55.9	0.3	3.0			(e)
		I	1.8	55.9	0.3	3.0			(e)

(e)Bracing loads must br applied to supporting building
(h)Rigid frame at endwall
(l)Weak axis bending is used

RIGID FRAME REACTIONS: WEAK AXIS BENDING

Wall Loc	Col Line	Col Line	Reactions(k ,f-k) Horz	AB_Vert	Moment	Load ID
F_SW	7	H	2.0	73.9	46.2	Wind
F_SW	7	H	0.5	18.5	11.5	Seismic
F_SW	7	I	2.0	73.9	46.2	Wind
F_SW	7	I	0.5	18.5	11.5	Seismic
B_SW	1	H	1.8	55.6	30.3	Wind
B_SW	1	H	0.5	18.8	8.3	Seismic
B_SW	1	I	1.8	55.6	30.3	Wind
B_SW	1	I	0.5	15.2	8.3	Seismic
B_SW	1	H	1.8	55.9	30.3	Wind
B_SW	1	H	0.5	15.2	8.3	Seismic

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	70.0
Length (ft)	=	36.0
Eave Height (ft)	=	17.0/ 23.5
Roof Slope (rise/12)	=	1.0
Dead Load (psf)	=	2.5
Collateral Load (psf)	=	4.0
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	120.0
Wind Speed (mph)	=	FBC 17 (IBC 15)
Wind Code	=	B
Exposure	=	C
Closed/Open	=	1.00
Importance Wind	=	1.00
Importance Seismic	=	B
Seismic Zone	=	0.15
Seismic Coeff (Fa*Ss)		

ID Description

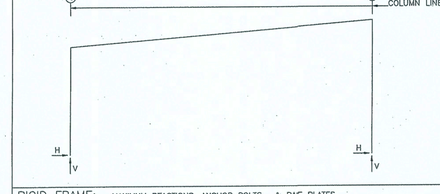
1 Dead+Collateral+Live
2 0.6Dead+0.6Wind_Left1
3 0.6Dead+0.6Wind_Right1
4 0.6Dead+0.6Wind_Long2R
5 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
6 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
7 Dead+0.6Wind_Right2+0.6Wind_Suction

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
⊠ 4	Endwall	3/4"	GR36	2.50
⊠ 24	Frame	1 1/4"	GR36	3.50

BLD.4

FRAME LINES: D E F G



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BAE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
D	3	2	2.8	6.1	5	-2.4	-1.7	4	C750	6.000	10.50	0.500	0.0
		1	2.5	7.3	3	-2.3	-3.4						
D	7	4	1.7	-2.0	1	-2.5	7.5	4	C750	6.000	11.00	0.500	0.0
		1	-2.5	7.5	7	0.2	-3.0						

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BAE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
E*	3	2	5.7	11.1	5	-4.8	-3.8	4	C750	6.000	12.00	0.500	0.0
		1	5.5	13.5	6	-0.6	-7.9						
E*	7	4	3.8	-4.5	1	-5.5	13.7	4	C750	8.000	10.50	0.500	0.0
		1	-5.5	13.7	6	0.9	-8.8						

E* Frame lines: E F G

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
D	3	0.5	1.7	0.5	1.4	1.5	4.2	-4.3	-7.4	1.3	-3.2	-4.5	-4.6
D	7	-0.5	1.9	-0.5	1.4	-1.5	4.2	-0.1	-6.0	3.4	-5.3	0.1	-3.2
E*	3	0.9	2.7	1.1	2.7	3.4	8.1	-8.9	-14.4	1.9	-6.2	-8.0	-8.9
E*	7	-0.9	2.8	-1.1	2.7	-3.4	8.2	0.4	-11.6	7.2	-10.2	0.6	-6.3

Frame Line	Column Line	Wind_Right2– Horiz	Wind_Right2– Vert	Wind_Long1– Horiz	Wind_Long1– Vert	Wind_Long2– Horiz	Wind_Long2– Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert	Seismic_Long Horiz	Seismic_Long Vert
D	3	1.3	-0.4	-0.6	-6.5	-0.6	-6.5	-0.2	-0.1	0.2	0.1	0.0	0.0
D	7	3.3	-2.5	0.9	-6.8	0.9	-6.8	-0.1	-0.1	0.1	-0.1	0.0	0.0
E*	3	2.3	-0.8	-1.9	-15.8	-1.9	-15.8	-0.2	-0.2	0.2	0.2	0.0	-1.8
E*	7	6.8	-4.9	2.5	-17.5	2.5	-17.5	-0.2	0.2	0.2	-0.2	0.0	-2.3

E* Frame lines: E F G

BUILDING BRACING REACTIONS

Wall Loc	Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	D								(h)
F_SW	7	F,G	5.0	4.3	0.9	0.8			
R_EW	H	Bracing Not Used					0	0	
B_SW	3	G,F	4.6	3.1	0.9	0.6			

(h)Rigid frame at endwall

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
⊠ 32	Frame	3/4"	GR36	2.50

NOTES FOR REACTIONS

Building reactions are based on the following building data:

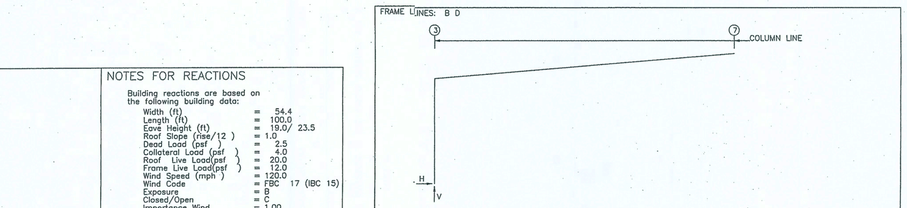
Width (ft)	=	54.4
Length (ft)	=	100.0
Eave Height (ft)	=	19.0/ 23.5
Roof Slope (rise/12)	=	1.0
Dead Load (psf)	=	2.5
Collateral Load (psf)	=	4.0
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	12.0
Wind Speed (mph)	=	120.0
Wind Code	=	FBC 17 (IBC 15)
Exposure	=	B
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (Fa*Ss)	=	0.15

ID Description

1 Dead+Collateral+Live
2 0.6Dead+0.6Wind_Left1
3 0.6Dead+0.6Wind_Long2L
4 0.6Dead+0.6Wind_Right1
5 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
6 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
7 Dead+0.6Wind_Right2+0.6Wind_Suction

BLD.5

FRAME LINES: B D



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
B*	3	1	3.8	8.8	2	-2.0	-3.6	4	0.750	6.000	10.50	0.500	0.0
					3	-0.9	-5.6						

B* Frame lines: B D

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
B*	35	0.8	2.0	0.8	1.7	2.3	5.1	-4.1	-8.0	-1.3	-5.3	-3.4	-4.6

Frame Line	Column Line	Wind_Right2– Horiz	Wind_Right2– Vert	Wind_Long1– Horiz	Wind_Long1– Vert	Wind_Long2– Horiz	Wind_Long2– Vert	Seismic_Long Horiz	Seismic_Long Vert
B*	35	-0.6	-1.8	-2.2	-11.4	-2.2	-11.4	0.0	-0.5

B* Frame lines: B D

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horiz	Wind Suct Horiz
B	5	0.3	-4.9	5.4

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
B	5	4	3.3	0.2	5	-3.0	0.2	4	0.750	6.000	8.125	0.375	0.0
		6	3.3	0.3									

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	54.4
Length (ft)	=	25.0
Eave Height (ft)	=	19.0/ 23.5
Roof Slope (rise/12)	=	1.0
Dead Load (psf)	=	2.5
Collateral Load (psf)	=	4.0
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	12.0
Wind Speed (mph)	=	120.0
Wind Code	=	FBC 17 (IBC 15)
Exposure	=	B
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (Fa*Ss)	=	0.15

ID Description

1 Dead+Collateral+Live
2 0.6Dead+0.6Wind_Left1
3 0.6Dead+0.6Wind_Long2L
4 0.6Dead+0.6Wind_Right1
5 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
6 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
7 Dead+0.6Wind_Right2+0.6Wind_Suction

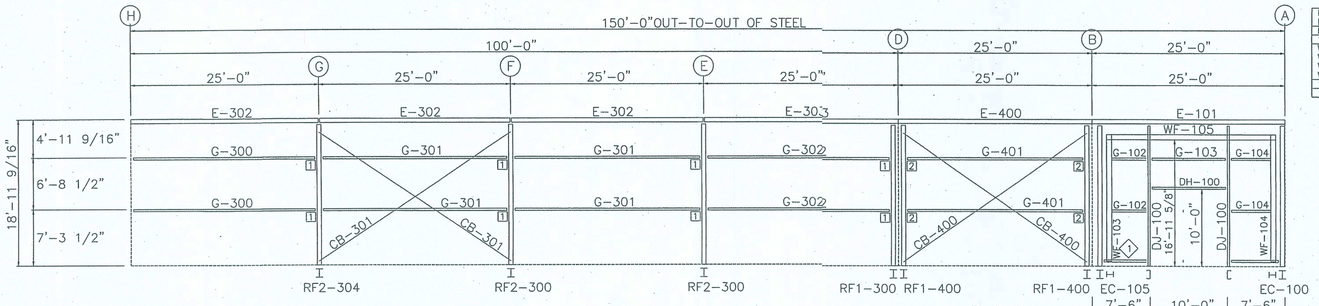
BUILDING BRACING REACTIONS

Wall Loc	Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	B								(h)
F_SW	7								(e)
R_EW	D								(h)
B_SW	3	D,B	4.4	3.1	0.3	0.2			

(e)Bracing loads must be applied to supporting building
(h)Rigid frame at endwall

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
⊠ 4	Endwall	3/



BLD.4 BLD.5 BLD.2

SIDEWALL FRAMING: FRAME LINE 3

BOLT TABLE
FRAME LINE 3

LOCATION	QUAN	TYPE	DIA	LENGTH
10236-BLD2				
WF-103 – WF-105	8	A325	3/4"	3"
WF-104 – WF-105	8	A325	3/4"	3"
WF-103 – EC-105	18	A325	3/4"	3"
WF-104 – EC-100	18	A325	3/4"	3"
10236-BLD4				
10236-BLD5				

ANGLE TABLE
FRAME LINE 3

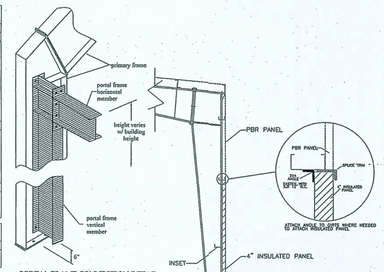
◇ID	MARK	LENGTH	DETAIL
1	L2x4	20'-0"	ANGLE 40

MEMBER TABLE
FRAME LINE 3

MARK	PART	LENGTH
10236-BLD2		
WF-103	W8X10	17'-1 9/16"
WF-104	W8X10	17'-1 9/16"
WF-105	W8X24	22'-3 1/8"
DJ-100	8X35C14	16'-11 3/8"
DH-100	8X35C14	9'-11 1/2"
E-101	10E514L1	24'-11 1/2"
G-102	8X25Z16	6'-6 1/8"
G-103	8X25Z16	9'-11 1/2"
G-104	8X25Z16	6'-6 1/8"
10236-BLD4		
E-302	10E512L1	24'-11 1/2"
E-303	10E512L1	24'-11 1/2"
G-300	8X35C12	24'-8 1/2"
G-301	8X35C12	24'-5 1/2"
G-302	8X25C12	23'-9 1/2"
CB-301 1/4 CBL		31'-1"
10236-BLD5		
E-400	10E514L1	24'-11 1/2"
G-401	8X25C12	23'-1 1/2"
CB-400	1/4 CBL	30'-0"

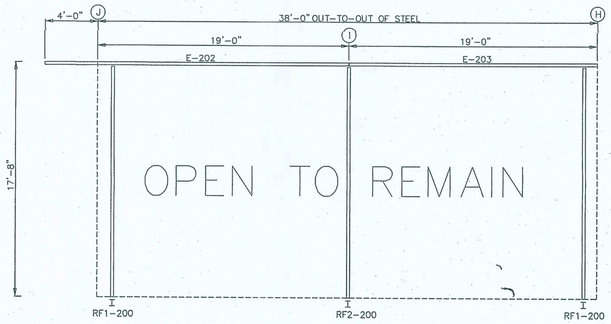
CONNECTION PLATES
FRAME LINE 3

◻ID	MARK/PART
1	L300
2	L401



PORTAL FRAME CONNECTION DETAIL

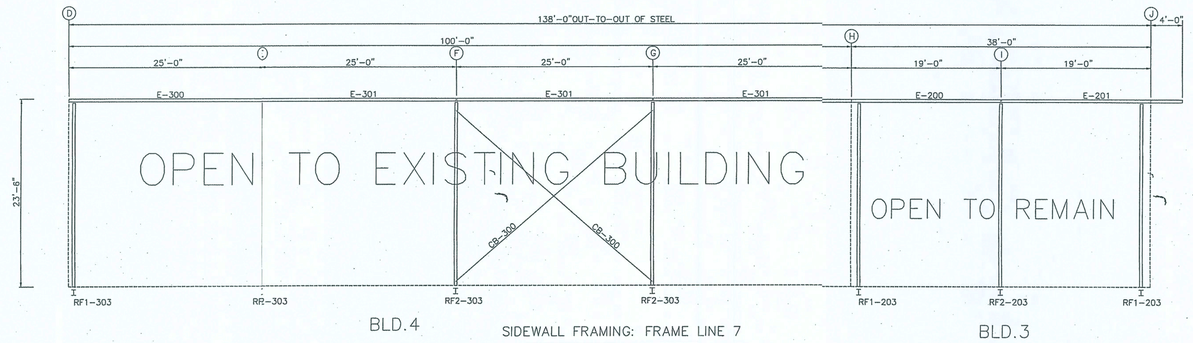
INSULATED PANNEL ATTACHMENT DETAIL FOR BUILDINGS 1,4,5.



SIDEWALL FRAMING: FRAME LINE 1 BLD.3

MEMBER TABLE
FRAME LINE 1

MARK	PART	LENGTH
E-202	10E514L1	22'-11 1/2"
E-203	10E514L1	18'-11 1/2"

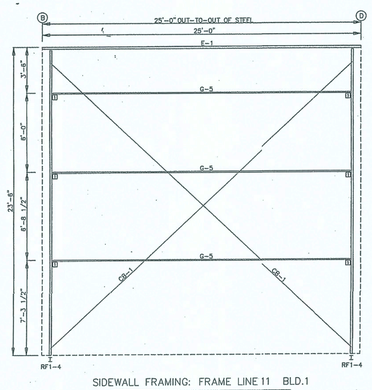


BLD.4 BLD.3

SIDEWALL FRAMING: FRAME LINE 7

MEMBER TABLE
FRAME LINE 7

MARK	PART	LENGTH
10236-BLD3		
E-200	10E514H1	18'-11 1/2"
E-201	10E514H1	22'-11 1/2"
10236-BLD4		
E-300	10E512H1	24'-11 1/2"
E-301	10E512H1	24'-11 1/2"
CB-300	5/16 CBL	33'-10"



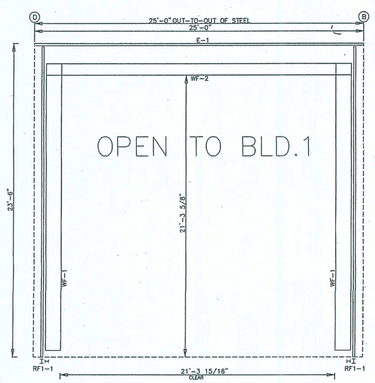
SIDEWALL FRAMING: FRAME LINE 11 BLD.1

MEMBER TABLE
FRAME LINE 11

MARK	PART	LENGTH
E-1	10E514L1	24'-11 1/2"
G-5	8X25C12	22'-11 1/2"
CB-1	3/8 CBL	33'-0"

CONNECTION PLATES
FRAME LINE 1

◻ID	MARK/PART
1	L1



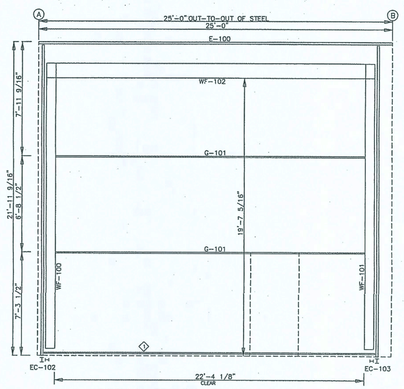
SIDEWALL FRAMING: FRAME LINE 7 BLD.5

BOLT TABLE
FRAME LINE 7

LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 – WF-2	8	A325	7/8	3 1/2"
WF-1 – RF1-1	22	A325	3/4"	3"

MEMBER TABLE
FRAME LINE 7

MARK	PART	LENGTH
WF-1	W14X34	21'-7 15/16"
WF-2	W10X26	21'-2 7/16"
E-1	10E514L1	24'-11 1/2"



SIDEWALL FRAMING: FRAME LINE 6 BLD.2

BOLT TABLE
FRAME LINE 6

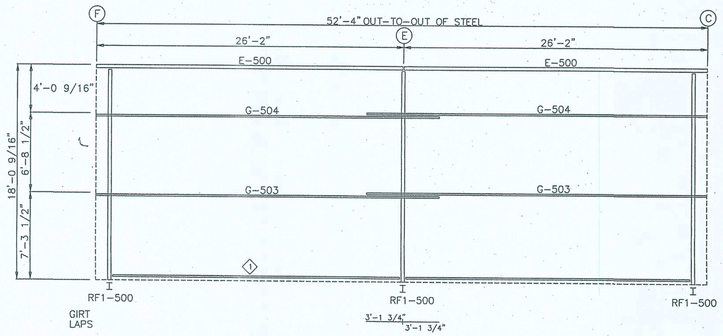
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-100 – WF-102	8	A325	3/4"	3"
WF-101 – WF-102	8	A325	3/4"	3"
WF-100 – EC-102	18	A325	3/4"	3"
WF-101 – EC-103	18	A325	3/4"	3"

ANGLE TABLE
FRAME LINE 6

◇ID	MARK	LENGTH	DETAIL
1	L3x4	20'-0"	ANGLE 40

MEMBER TABLE
FRAME LINE 6

MARK	PART	LENGTH
WF-100	W8X10	20'-1 9/16"
WF-101	W8X10	20'-1 9/16"
WF-102	W12X26	22'-3 1/8"
E-100	10E514H1	24'-11 1/2"
G-101	8X35Z12	23'-7 3/4"



SIDEWALL FRAMING: FRAME LINE 2 BLD.6

ANGLE TABLE
FRAME LINE 2

◇ID	MARK	LENGTH	DETAIL
1	L2x4	20'-0"	ANGLE 40

MEMBER TABLE
FRAME LINE 2

MARK	PART	LENGTH
E-500	10E514L1	26'-1 1/2"
G-503	8X35Z16	29'-3 1/2"
G-504	8X25Z16	29'-3 1/2"

DESIGN CRITERIA

BUILDING CODE:	FBC 17
LIVE LOAD TO FRAMES:	12 PSF
LIVE LOAD TO PURLINS:	20.00 PSF
COLLATERAL LOAD:	4 PSF
SNOW LOAD (GROUND)	0 PSF
WIND SPEED: (ULTIMATE)	120 MPH
WIND EXPOSURE:	B
BUILDING RISK CATEGORY	II - Normal
ENCLOSURE CLASSIFICATION	Enclosed

Gregory S. Barfield, P.E.
249 Nell Purvis Road
Adel, GA 31620
P.E. # 54419

GREGORY S. BARFIELD LICENSE No 54419 STATE OF FLORIDA PROFESSIONAL ENGINEER

10-3-19

ELITE STRUCTURES
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 5/16/17
DRAWN BY: B.BROWN | SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES

REVISION

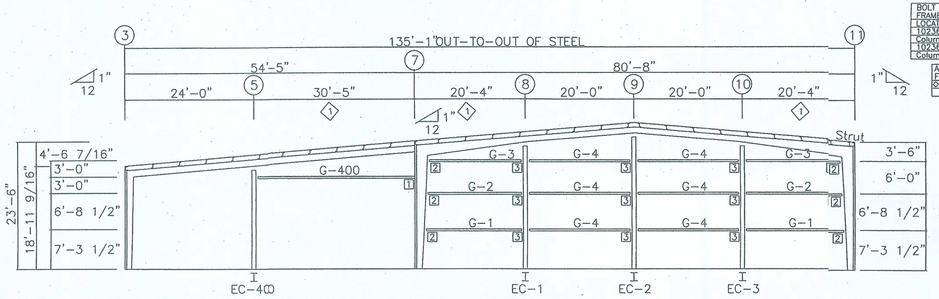
DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

PLAN:
SIDEWALL FRAMING

JOB # 10236-SF

SHEET 3 OF 12



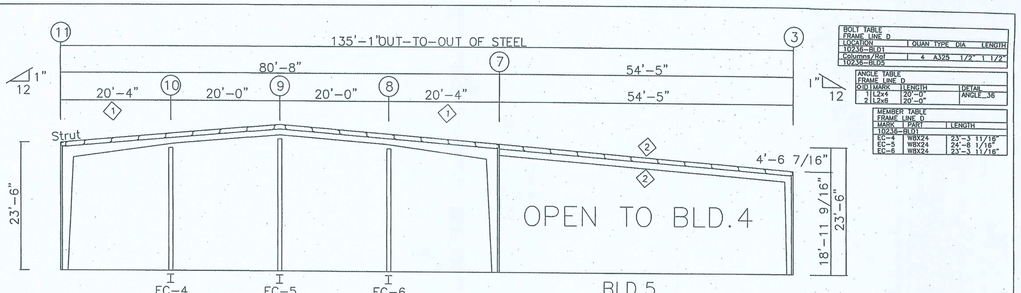
ENDWALL FRAMING: FRAME LINE B

BOLT TABLE FRAME LINE B				
LOCATION	QUAN	TYPE	DIA	LENGTH
10236-BLD1				
Columns/Rof	4	A325	1/2"	1 1/2"
10236-BLD5				
Columns/Rof	4	A325	1/2"	1 1/2"

ANGLE TABLE FRAME LINE B			
QTY	MARK	LENGTH	DETAIL
1	L2x4	20'-0"	ANGLE_36

MEMBER TABLE FRAME LINE B		
MARK	PART	LENGTH
10236-BLD1		
EC-1	W8X13	23'-3 1/2"
EC-2	W8X13	24'-8 1/16"
EC-3	W8X13	23'-3 1/2"
G-1	BX35C14	18'-4"
G-2	BX35C14	17'-11 15/16"
G-3	BX35C14	17'-8 3/8"
G-4	BX35C14	19'-7 1/2"
10236-BLD5		
EC-400	W8X18	18'-11 1/8"
G-400	BX25Z12	29'-10"

CONNECTION PLATES FRAME LINE B		
QTY	MARK/PART	
1	1401	
2	11	
3	12	

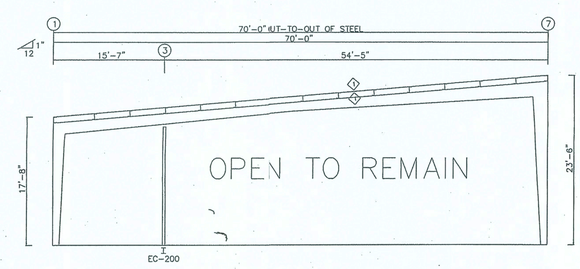


ENDWALL FRAMING: FRAME LINE D

BOLT TABLE FRAME LINE D				
LOCATION	QUAN	TYPE	DIA	LENGTH
10236-BLD1				
Columns/Rof	4	A325	1/2"	1 1/2"
10236-BLD5				

ANGLE TABLE FRAME LINE D			
QTY	MARK	LENGTH	DETAIL
1	L2x4	20'-0"	ANGLE_36
2	L2x4	20'-0"	

MEMBER TABLE FRAME LINE D		
MARK	PART	LENGTH
10236-BLD1		
EC-4	W8X24	23'-3 11/16"
EC-5	W8X24	24'-8 1/16"
EC-6	W8X24	23'-3 11/16"

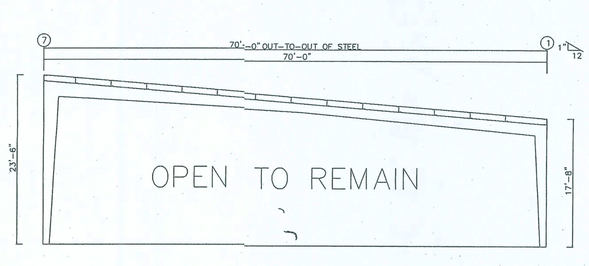


ENDWALL FRAMING: FRAME LINE H BLD.3

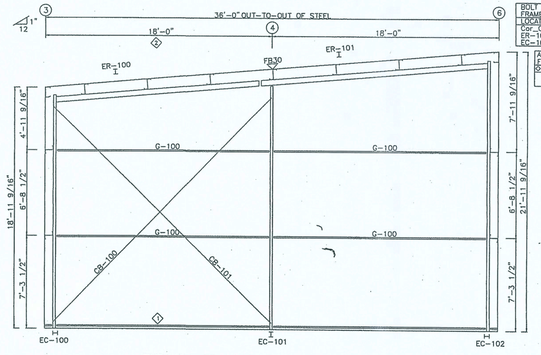
BOLT TABLE FRAME LINE H				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Rof	4	A325	1/2"	1 1/2"

ANGLE TABLE FRAME LINE H			
QTY	MARK	LENGTH	
1	L4x8	20'-0"	

MEMBER TABLE FRAME LINE H		
MARK	PART	LENGTH
EC-200	W8X18	19'-8 3/8"



ENDWALL FRAMING: FRAME LINE J BLD.3



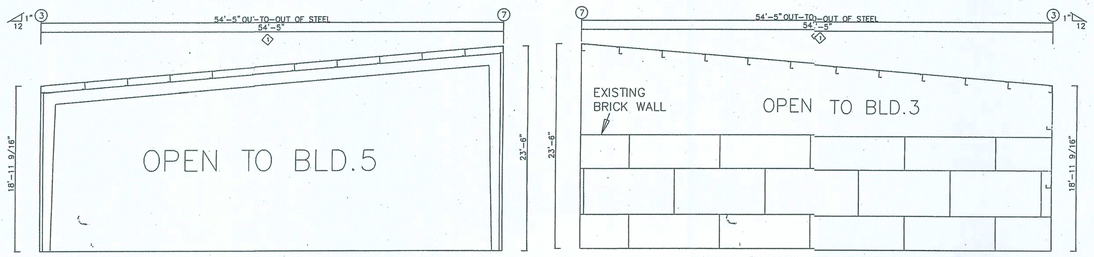
ENDWALL FRAMING: FRAME LINE A BLD.2

BOLT TABLE FRAME LINE A				
LOCATION	QUAN	TYPE	DIA	LENGTH
Col_Column/Rof	4	A325	3/4"	3"
ER-100/ER-101	8	A325	3/4"	3"
EC-101/ER-101	4	A325	1/2"	1 1/2"

ANGLE TABLE FRAME LINE A			
QTY	MARK	LENGTH	DETAIL
1	L2x4	20'-0"	ANGLE_40
2	L2x4	20'-0"	ANGLE_36

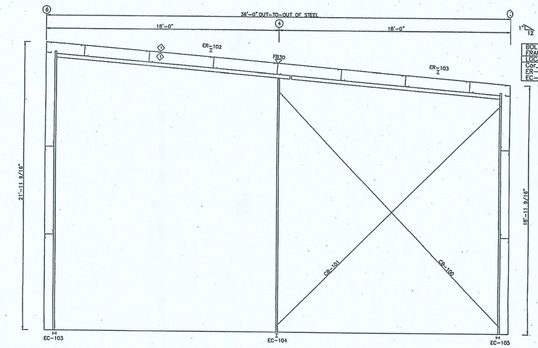
MEMBER TABLE FRAME LINE A		
MARK	PART	LENGTH
EC-100	W12X14	18'-3 3/16"
EC-101	W8X10	18'-11 13/16"
EC-102	W12X14	21'-0 7/8"
ER-100	W8X10	15'-8 1/4"
ER-101	W8X10	17'-3 15/16"
G-100	BX25Z16	16'-1 9/16"
CB-100	1/4_CBL	25'-1"
CB-101	1/4_CBL	24'-1"

FLANGE BRACE TABLE FRAME LINE A		
QTY	MARK	LENGTH
1	FB30	2'-6"



ENDWALL FRAMING FRAME LINE D BLD.4

ENDWALL FRAMING: FRAME LINE H BLD.4



ENDWALL FRAMING: FRAME LINE B BLD.2

BOLT TABLE FRAME LINE B				
LOCATION	QUAN	TYPE	DIA	LENGTH
Col_Column/Rof	4	A325	3/4"	3"
ER-102/ER-103	8	A325	3/4"	3"
EC-104/ER-102	4	A325	1/2"	1 1/2"

MEMBER TABLE FRAME LINE B		
MARK	PART	LENGTH
EC-103	W12X26	28'-0 7/8"
EC-104	W12X26	28'-11 7/8"
EC-105	W12X26	28'-0 7/8"
ER-102	W8X10	17'-3 1/4"
ER-103	W8X10	17'-3 15/16"
CB-102	1/4_CBL	25'-1"
CB-103	1/4_CBL	24'-1"

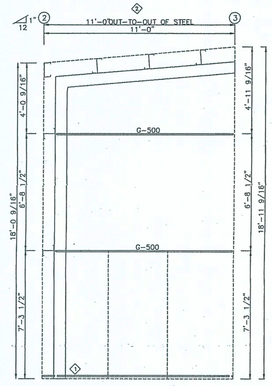
ANGLE TABLE FRAME LINE B		
QTY	MARK	LENGTH
11	L4x8	20'-0"

FLANGE BRACE TABLE FRAME LINE B		
QTY	MARK	LENGTH
11	FB30	2'-6"

ANGLE TABLE FRAME LINE D			
QTY	MARK	LENGTH	DETAIL
11	L2x4	20'-0"	ANGLE_36

ANGLE TABLE FRAME LINE C			
QTY	MARK	LENGTH	DETAIL
1	L2x4	20'-0"	ANGLE_40
2	L2x4	20'-0"	ANGLE_36

MEMBER TABLE FRAME LINE C		
MARK	PART	LENGTH
G-500	8X25Z16	10'-3 1/2"



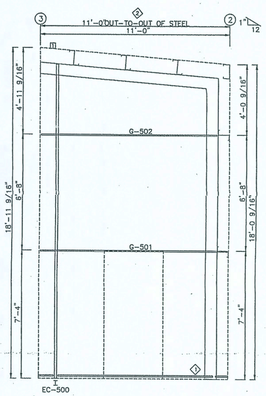
ENDWALL FRAMING: FRAME LINE C BLD.6

BOLT TABLE FRAME LINE F				
LOCATION	QUAN	TYPE	DIA	LENGTH
Col_Column/Rof	4	A325	1/2"	1 1/2"

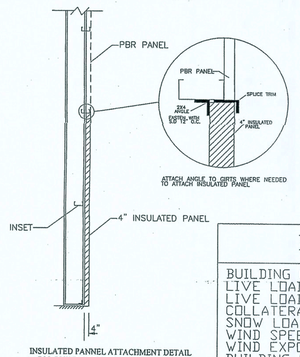
ANGLE TABLE FRAME LINE F			
QTY	MARK	LENGTH	DETAIL
1	L2x4	20'-0"	ANGLE_40
2	L2x4	20'-0"	ANGLE_36

MEMBER TABLE FRAME LINE F		
MARK	PART	LENGTH
EC-500	W12X14	17'-8 9/16"
G-501	BX25Z16	9'-11 1/2"
G-502	BX25Z16	9'-3 1/2"

CONNECTION PLATES FRAME LINE F		
QTY	MARK/PART	
1	1500	



ENDWALL FRAMING: FRAME LINE F BLD.6



INSULATED PANNEL ATTACHMENT DETAIL FOR BUILDINGS 1,4,5.

DESIGN CRITERIA

BUILDING CODE:	FBC	17
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20.00	PSF
COLLATERAL LOAD:	4	PSF
SNOW LOAD (GROUND)	0	PSF
WIND SPEED: (ULTIMATE)	120	MPH
WIND EXPOSURE:	B	
BUILDING RISK CATEGORY	II - Normal	
ENCLOSURE CLASSIFICATION	Enclosed	

Gregory S. Barfield, P.E.
2149 Nell Purvis Road
Adel, GA 31620
P.E. # 54419

GREGORY S. BARFIELD LICENSE No 54419 STATE OF FLORIDA PROFESSIONAL ENGINEER

10-3-19

ELITE STRUCTURES
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 5/16/17
DRAWN BY: B.BROWN | SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES

REVISION

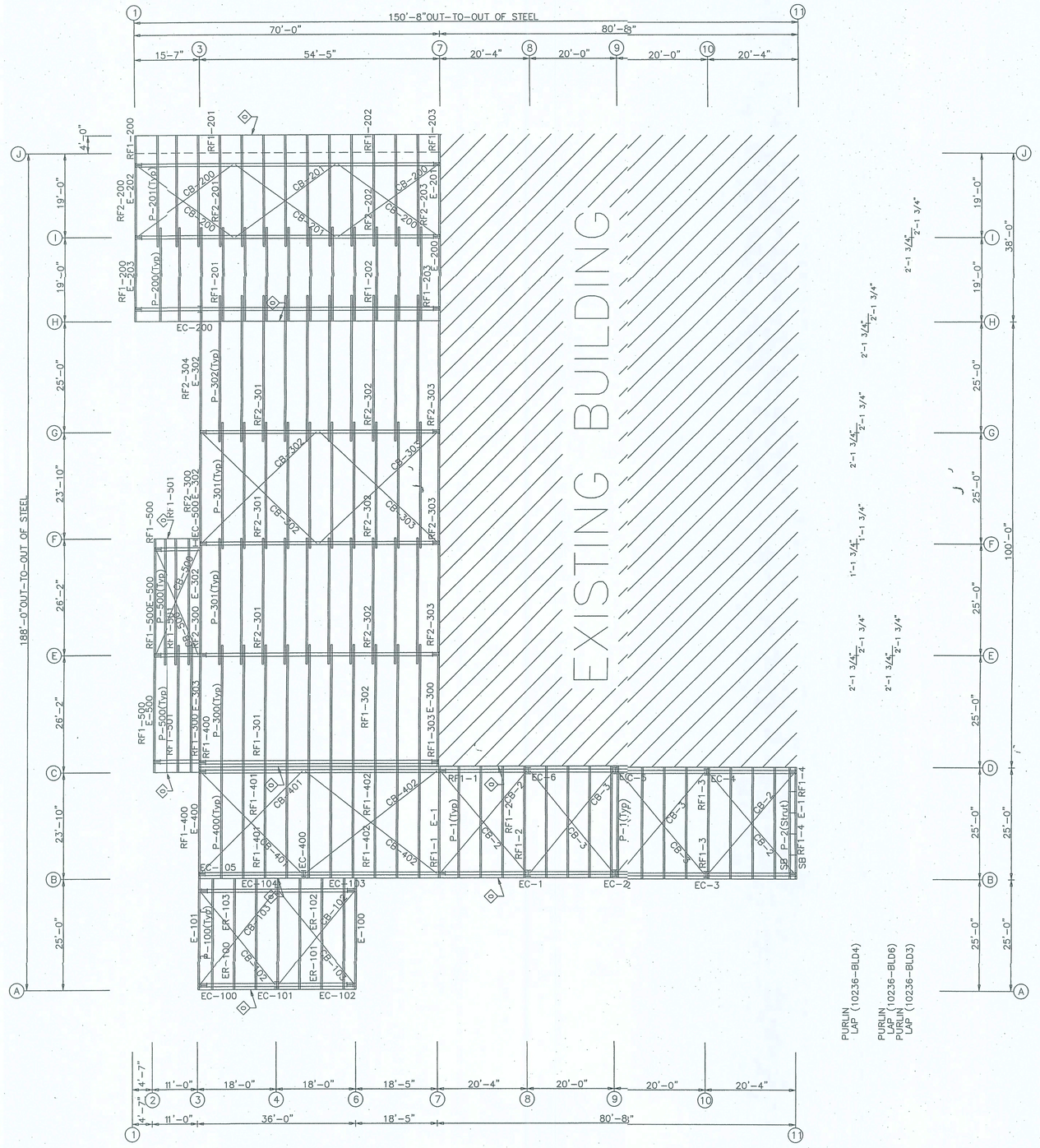
DATE	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

PLAN:
ENDWALL FRAMING

JOB # 10236-EF

SHEET 4 OF 12



ROOF FRAMING PLAN

ANGLE TABLE ROOF PLAN			
◇ID	MARK	LENGTH	DETAIL
	L2x4	20'-0"	ANGLE_36

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
10236-BLD1		
P-1	10X25Z12	24'-11 1/2"
P-2	10X25Z16	24'-3 1/2"
E-1	10E514L1	24'-11 1/2"
CB-2	5/16_CBL	31'-3"
CB-3	1/4_CBL	31'-3"
SB	SB	1'-0"
10236-BLD2		
P-100	10X25Z12	24'-11 1/2"
E-100	10E514H1	24'-11 1/2"
E-101	10E514L1	24'-11 1/2"
CB-102	1/4_CBL	28'-10"
CB-103	1/4_CBL	28'-11"
10236-BLD3		
P-200	10X25Z16	21'-1 1/2"
P-201	10X25Z16	25'-1 1/2"
E-200	10E514H1	18'-11 1/2"
E-201	10E514H1	22'-11 1/2"
E-202	10E514L1	22'-11 1/2"
E-203	10E514L1	18'-11 1/2"
CB-200	1/4_CBL	29'-5"
CB-201	1/4_CBL	29'-6"
10236-BLD4		
P-300	10X35Z14	27'-1 1/2"
P-301	10X35Z14	28'-3 1/2"
P-302	10X35Z14	27'-1 1/2"
E-300	10E512H1	24'-11 1/2"
E-302	10E512L1	24'-11 1/2"
E-303	10E512L1	24'-11 1/2"
CB-302	1/4_CBL	36'-9"
CB-303	1/4_CBL	37'-0"
10236-BLD5		
P-400	10X25Z12	24'-11 1/2"
E-400	10E514L1	24'-11 1/2"
CB-401	1/4_CBL	33'-8"
CB-402	1/4_CBL	38'-8"
10236-BLD6		
P-500	10X25Z16	28'-3 1/2"
E-500	10E514L1	26'-1 1/2"
CB-500	1/4_CBL	27'-4"

DESIGN CRITERIA		
BUILDING CODE:	FBC 17	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20.00	PSF
COLLATERAL LOAD:	4	PSF
SNOW LOAD (GROUND)	0	PSF
WIND SPEED: (ULTIMATE)	120	MPH
WIND EXPOSURE:	B	
BUILDING RISK CATEGORY	II - Normal	
ENCLOSURE CLASSIFICATION	Enclosed	

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Adel, GA 31620
P.E. # 54419

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10-3-19

ELITE STRUCTURES
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 5/16/17
DRAWN BY: B.BROWN | SALESMAN: L. WHITEHURST
BUILDING SIZE: BUILDING VARIES

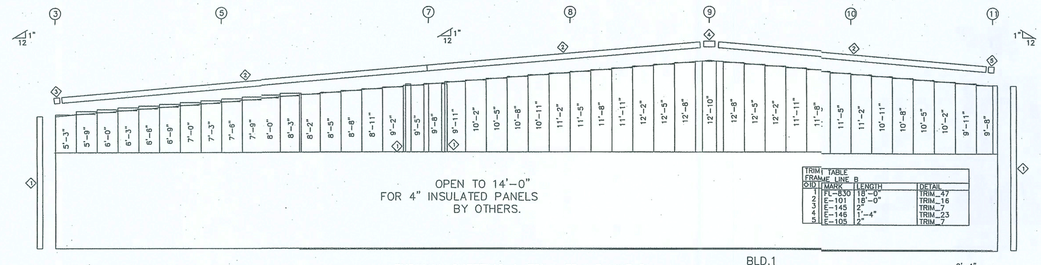
REVISION		
DATE:	DESCRIPTION	
REVISED: 5-18-2017	REVISED: 2-19-19	
REVISED: 7-28-2017		
REVISED: 4-7-18		

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

PLAN:
ROOF FRAMING

JOB # 10236-RF

SHEET 5 OF 12

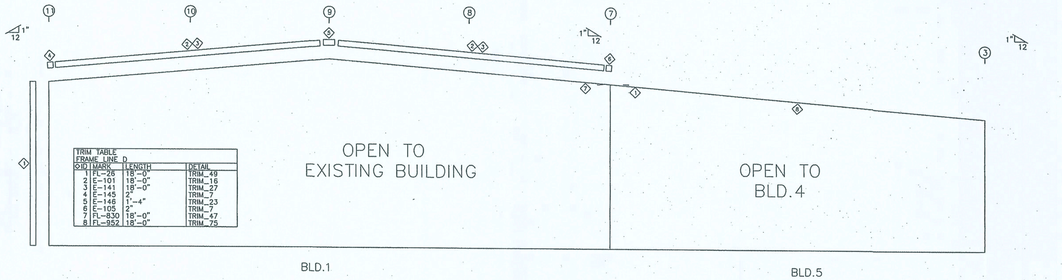


TRIM TABLE
FRAME LINE B

QTY	MARK	LENGTH	DETAIL
1	FL-830	18'-0"	TRIM_47
2	E-101	18'-0"	TRIM_16
3	E-145	2"	TRIM_7
4	E-146	1'-4"	TRIM_23
5	E-105	2"	TRIM_7

ENDWALL SHEETING & TRIM: FRAME LINE B

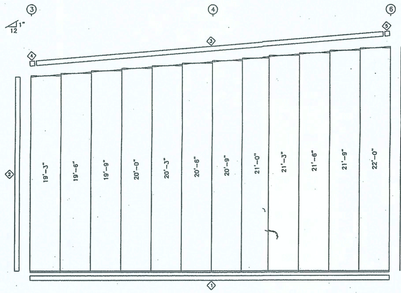
PANELS: 26 Ga. PBR – NEED COLOR
(10236-BLD2) PANELS: 26 Ga. PBR – NEED COLOR



TRIM TABLE
FRAME LINE D

QTY	MARK	LENGTH	DETAIL
1	FL-26	18'-0"	TRIM_49
2	E-101	18'-0"	TRIM_16
3	E-145	2"	TRIM_7
4	E-146	1'-4"	TRIM_23
5	E-105	2"	TRIM_7
6	FL-830	18'-0"	TRIM_47
7	FL-952	18'-0"	TRIM_75

ENDWALL SHEETING & TRIM: FRAME LINE D

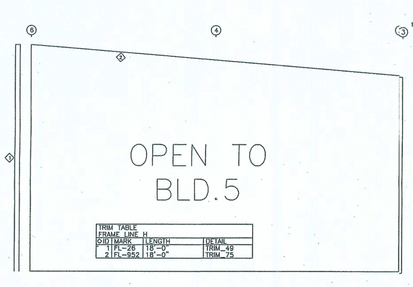


ENDWALL SHEETING & TRIM: FRAME LINE A BLD.2

PANELS: 26 Ga. PBR – NEED COLOR

TRIM TABLE
FRAME LINE A

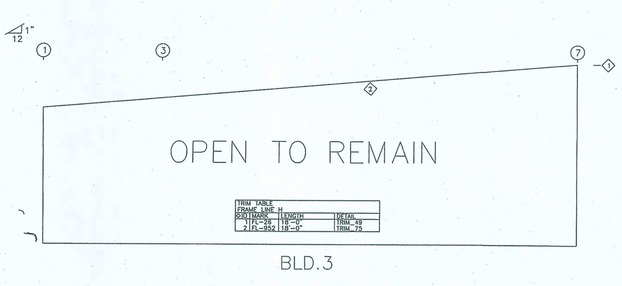
QTY	MARK	LENGTH	DETAIL
1	E-108	18'-0"	TRIM_43
2	FL-830	18'-0"	TRIM_47
3	E-101	18'-0"	TRIM_16
4	E-145	2"	TRIM_7
5	E-105	2"	TRIM_7



TRIM TABLE
FRAME LINE H

QTY	MARK	LENGTH	DETAIL
1	FL-26	18'-0"	TRIM_49
2	FL-952	18'-0"	TRIM_75

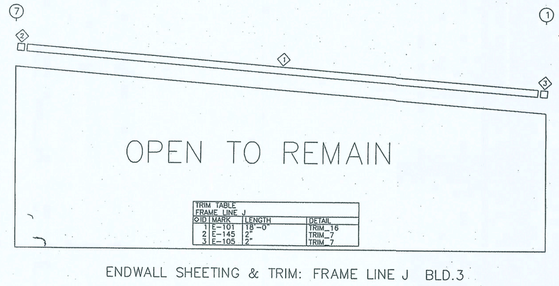
ENDWALL SHEETING & TRIM: FRAME LINE B BLD.2



TRIM TABLE
FRAME LINE H

QTY	MARK	LENGTH	DETAIL
1	FL-26	18'-0"	TRIM_49
2	FL-952	18'-0"	TRIM_75

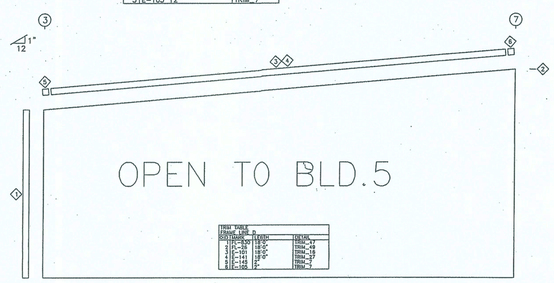
ENDWALL SHEETING & TRIM: FRAME LINE H
(10236-BLD4) PANELS: 26 Ga. PBR – NEED COLOR



TRIM TABLE
FRAME LINE J

QTY	MARK	LENGTH	DETAIL
1	E-101	18'-0"	TRIM_16
2	E-145	2"	TRIM_7
3	E-105	2"	TRIM_7

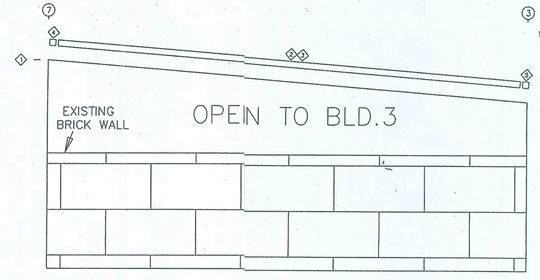
ENDWALL SHEETING & TRIM: FRAME LINE J BLD.3



TRIM TABLE
FRAME LINE D

QTY	MARK	LENGTH	DETAIL
1	FL-830	18'-0"	TRIM_47
2	E-101	18'-0"	TRIM_16
3	E-145	2"	TRIM_7
4	E-146	1'-4"	TRIM_23
5	E-105	2"	TRIM_7

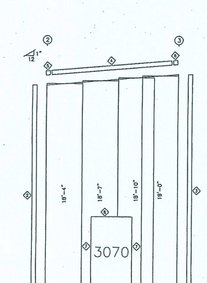
ENDWALL SHEETING & TRIM: FRAME LINE D BLD.4



TRIM TABLE
FRAME LINE H

QTY	MARK	LENGTH	DETAIL
1	FL-26	18'-0"	TRIM_49
2	E-101	18'-0"	TRIM_16
3	E-145	2"	TRIM_7
4	E-146	1'-4"	TRIM_23
5	E-105	2"	TRIM_7

ENDWALL SHEETING & TRIM: FRAME LINE H BLD.4

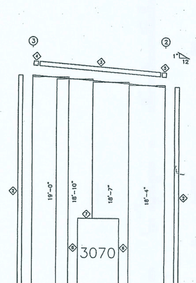


ENDWALL SHEETING & TRIM: FRAME LINE C BLD.6

PANELS: 26 Ga. PBR – NEED COLOR

TRIM TABLE
FRAME LINE C

QTY	MARK	LENGTH	DETAIL
1	E-108	18'-0"	TRIM_43
2	FL-830	18'-0"	TRIM_47
3	E-139	18'-0"	TRIM_10
4	E-102	1'-0"	TRIM_2
5	E-103	1'-0"	TRIM_2
6	FL-26	7'-7"	TRIM_49
7	FL-26	3'-8"	TRIM_49

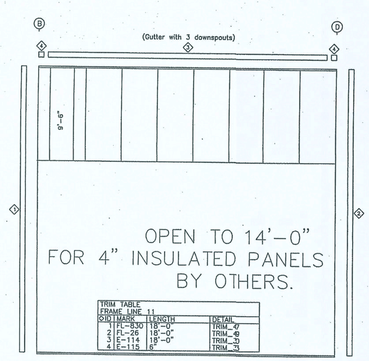


ENDWALL SHEETING & TRIM: FRAME LINE F BLD.6

PANELS: 26 Ga. PBR – NEED COLOR

TRIM TABLE
FRAME LINE F

QTY	MARK	LENGTH	DETAIL
1	E-108	18'-0"	TRIM_43
2	FL-830	18'-0"	TRIM_47
3	E-139	18'-0"	TRIM_10
4	E-102	1'-0"	TRIM_2
5	E-103	1'-0"	TRIM_2
6	FL-26	7'-7"	TRIM_49
7	FL-26	3'-8"	TRIM_49

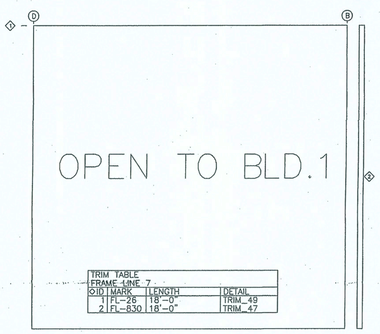


TRIM TABLE
FRAME LINE 11

QTY	MARK	LENGTH	DETAIL
1	FL-830	18'-0"	TRIM_47
2	FL-26	18'-0"	TRIM_49
3	E-114	18'-0"	TRIM_53
4	E-115	8"	TRIM_53

SIDEWALL SHEETING & TRIM: FRAME LINE 11 BLD.1

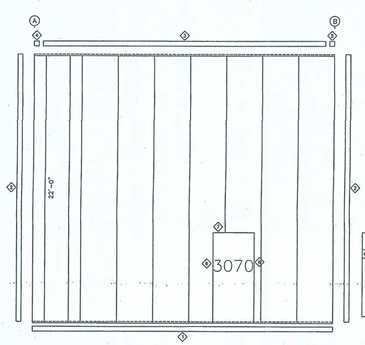
PANELS: 26 Ga. PBR – NEED COLOR



TRIM TABLE
FRAME LINE 7

QTY	MARK	LENGTH	DETAIL
1	FL-26	18'-0"	TRIM_49
2	FL-830	18'-0"	TRIM_47

SIDEWALL SHEETING & TRIM: FRAME LINE 7 BLD.2



TRIM TABLE
FRAME LINE 6

QTY	MARK	LENGTH	DETAIL
1	E-108	18'-0"	TRIM_43
2	FL-830	18'-0"	TRIM_47
3	E-139	18'-0"	TRIM_10
4	E-102	1'-0"	TRIM_2
5	E-103	1'-0"	TRIM_2
6	FL-26	7'-7"	TRIM_49
7	FL-26	3'-8"	TRIM_49

SIDEWALL SHEETING & TRIM: FRAME LINE 6 BLD.2

PANELS: 26 Ga. PBR – NEED COLOR

DESIGN CRITERIA

BUILDING CODE:	FBC	17
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20.00	PSF
COLLATERAL LOAD:	4	PSF
SNOW LOAD (GROUND)	0	PSF
WIND SPEED: (ULTIMATE)	120	MPH
WIND EXPOSURE:	B	
BUILDING RISK CATEGORY	II - Normal	
ENCLOSURE CLASSIFICATION	Enclosed	

Gregory S. Barfield, P.E.
2149 Nell Purvis Road
Adel, GA 31620
P.E. # 54419

GREGORY S. BARFIELD LICENSE No 54419 STATE OF FLORIDA PROFESSIONAL ENGINEER

10-3-19

ELITE STRUCTURES
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 5/16/17
DRAWN BY: B.BROWN | SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES

REVISION

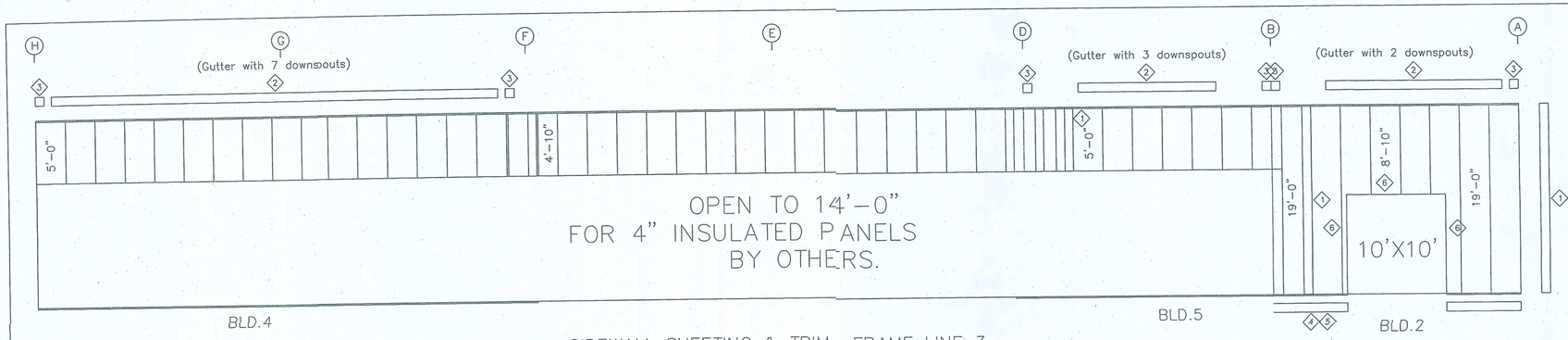
DATE	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

PLAN:
WALL SHEETING

JOB # 10236-WS

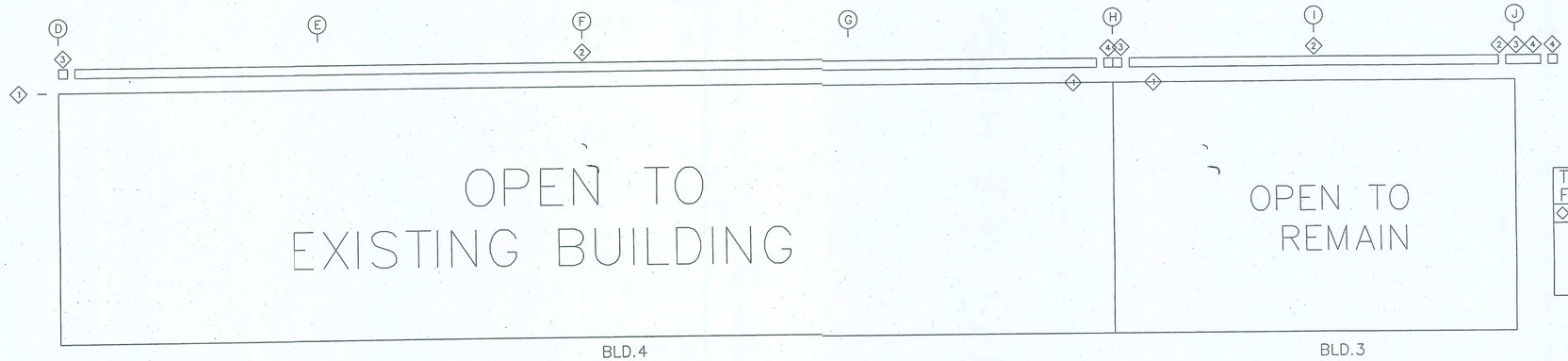
SHEET 6A OF 12



TRIM TABLE FRAME LINE 3			
◇ID	MARK	LENGTH	DETAIL
1	FL-830	18'-0"	TRIM_47
2	E-114	18'-0"	TRIM_30
3	E-115	6"	TRIM_33
4	E-108	18'-0"	TRIM_43
5	E-108	SCRAP	TRIM_43
6	FL-26	10'-3"	TRIM_49

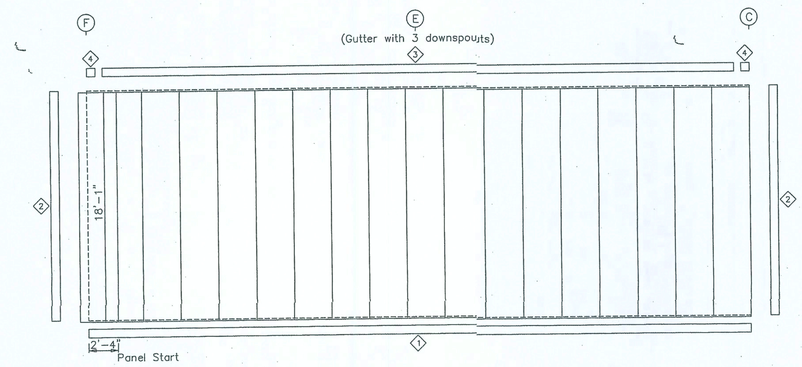
SIDEWALL SHEETING & TRIM: FRAME LINE 3

PANELS: 26 Ga. PBR – NEED COLOR
(10236-BLD6) PANELS: 26 Ga. PBR – NEED COLOR



TRIM TABLE FRAME LINE 7			
◇ID	MARK	LENGTH	DETAIL
1	FL-26	18'-0"	TRIM_49
2	E-139	18'-0"	TRIM_10
3	E-102	1'-0"	TRIM_2
4	E-103	1'-0"	TRIM_2

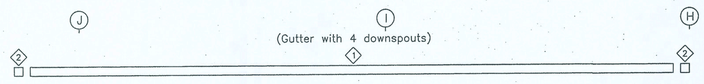
SIDEWALL SHEETING & TRIM: FRAME LINE 7



SIDEWALL SHEETING & TRIM: FRAME LINE 2 BLD.6

PANELS: 26 Ga. PBR – NEED COLOR

TRIM TABLE FRAME LINE 2			
◇ID	MARK	LENGTH	DETAIL
1	E-108	18'-0"	TRIM_43
2	FL-830	18'-0"	TRIM_47
3	E-114	18'-0"	TRIM_30
4	E-115	6"	TRIM_33



OPEN TO REMAIN

TRIM TABLE FRAME LINE 1			
◇ID	MARK	LENGTH	DETAIL
1	E-114	18'-0"	TRIM_30
2	E-115	6"	TRIM_33

SIDEWALL SHEETING & TRIM: FRAME LINE 1 BLD.3

DESIGN CRITERIA		
BUILDING CODE:	FBC	17
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20.00	PSF
COLLATERAL LOAD:	4	PSF
SNOW LOAD (GROUND)	0	PSF
WIND SPEED: (ULTIMATE)	120	MPH
WIND EXPOSURE:	B	
BUILDING RISK CATEGORY	II - Normal	
ENCLOSURE CLASSIFICATION	Enclosed	

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10-3-19

ELITE STRUCTURES
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ADEL , GA 31620

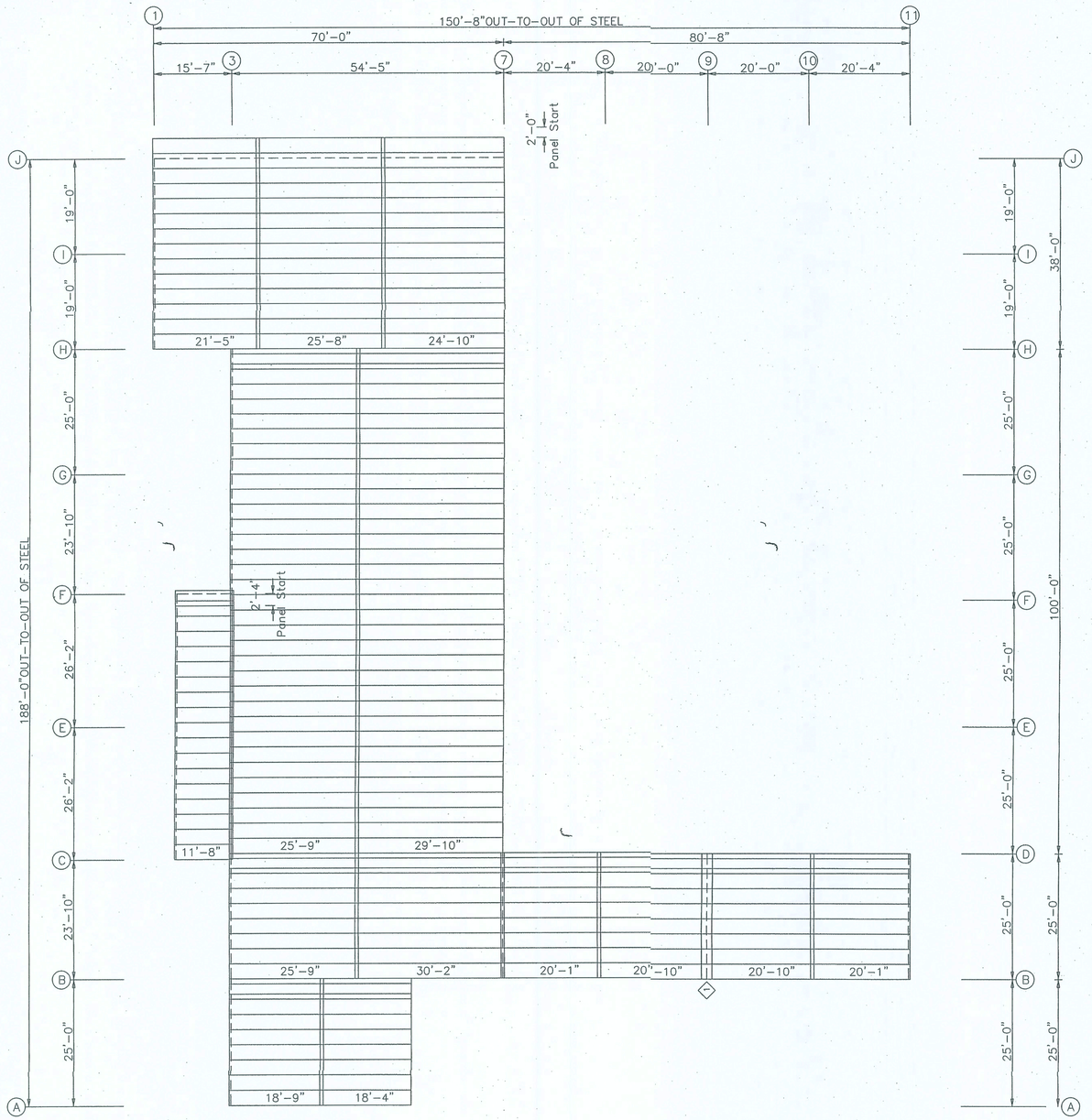
SCALE: N.T.S. | DATE: 5/16/17
DRAWN BY: B.BROWN | SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES

REVISION		
DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

PLAN:
WALL SHEETING

JOB # 10236-WS
SHEET 6B OF 12



ROOF SHEETING PLAN

PANELS: 26 Ga. PBR – Polar White

TRIM TABLE
ROOF PLAN

◇ID	MARK	LENGTH
1	FL-51	3'-0"

DESIGN CRITERIA

BUILDING CODE:	FBC 17
LIVE LOAD TO FRAMES:	12 PSF
LIVE LOAD TO PURLINS:	20.00 PSF
COLLATERAL LOAD:	4 PSF
SNOW LOAD (GROUND)	0 PSF
WIND SPEED: (ULTIMATE)	120 MPH
WIND EXPOSURE:	B
BUILDING RISK CATEGORY	II - Normal
ENCLOSURE CLASSIFICATION	Enclosed

Gregory S. Barfield, P.E.
2141 Nail Purvis Road
Adel, GA 31620
P.E. # 54419

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10-3-19

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P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 5/16/17
DRAWN BY: B.BROWN | SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES

REVISION

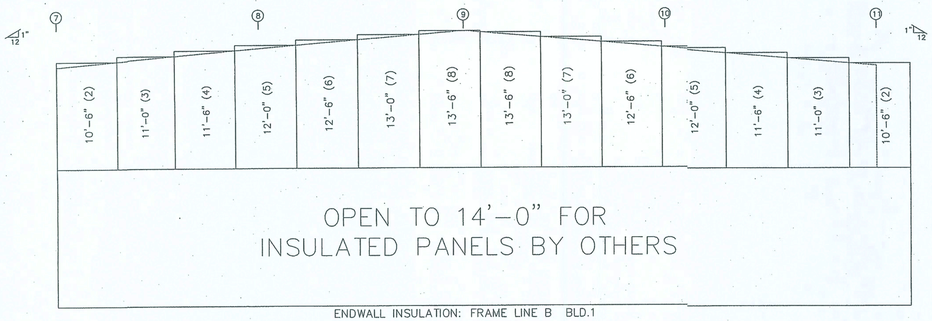
DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

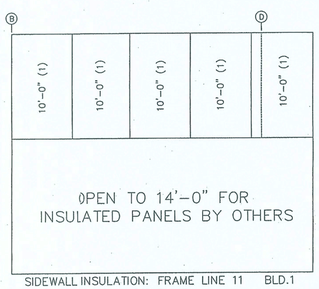
PLAN:
ROOF SHEETING

JOB # 10236-RS

SHEET 7 OF 12



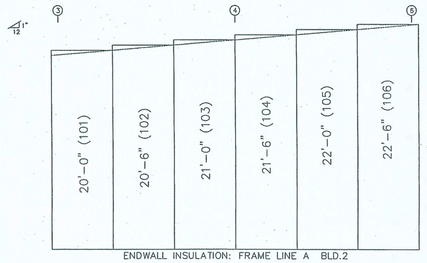
ENDWALL INSULATION: FRAME LINE B BLD.1
INSULATION: 3.00" Thick VR



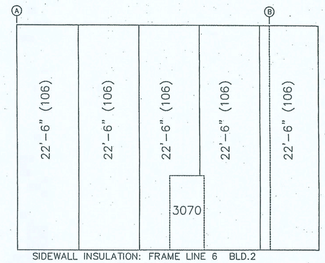
SIDEWALL INSULATION: FRAME LINE 11 BLD.1
INSULATION: 3.00" Thick VR

INSULATION TABLE FRAME LINE B 11				
ROLL	QUAN	MARK	WIDTH	LENGTH
1	5	WI-1	6'-0"	10'-0"
2	2	WI-2	6'-0"	10'-6"
3	2	WI-3	6'-0"	11'-0"
4	2	WI-4	6'-0"	11'-6"
5	2	WI-5	6'-0"	12'-0"
6	2	WI-6	6'-0"	12'-6"
7	2	WI-7	6'-0"	13'-0"
8	2	WI-8	6'-0"	13'-6"

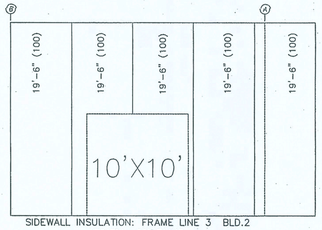
LEGEND:
24'-0" (1)
Length (Roll #)



ENDWALL INSULATION: FRAME LINE A BLD.2
INSULATION: 3.00" Thick VR



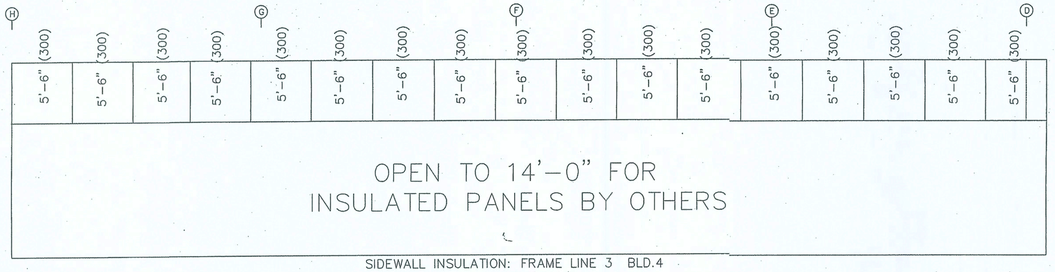
SIDEWALL INSULATION: FRAME LINE 6 BLD.2
INSULATION: 3.00" Thick VR



SIDEWALL INSULATION: FRAME LINE 3 BLD.2
INSULATION: 3.00" Thick VR

INSULATION TABLE FRAME LINE A & 3				
ROLL	QUAN	MARK	WIDTH	LENGTH
100	5	WI-100	6'-0"	19'-6"
101	1	WI-101	6'-0"	20'-0"
102	1	WI-102	6'-0"	20'-6"
103	1	WI-103	6'-0"	21'-0"
104	1	WI-104	6'-0"	21'-6"
105	1	WI-105	6'-0"	22'-0"
106	6	WI-106	6'-0"	22'-6"

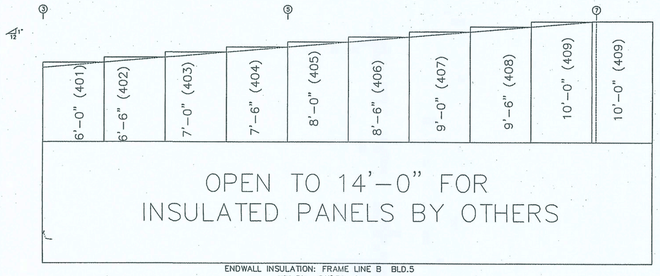
LEGEND:
19'-6" (1)
Length (Roll #)



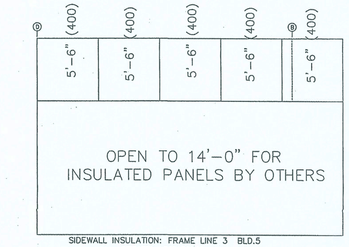
SIDEWALL INSULATION: FRAME LINE 3 BLD.4
INSULATION: 3.00" Thick VR

INSULATION TABLE FRAME LINE 3				
ROLL	QUAN	MARK	WIDTH	LENGTH
300	17	WI-300	6'-0"	5'-6"

LEGEND:
19'-6" (1)
Length (Roll #)



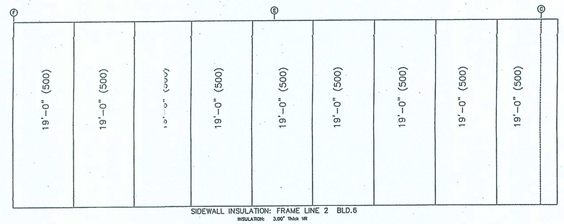
ENDWALL INSULATION: FRAME LINE B BLD.5
INSULATION: 3.00" Thick VR

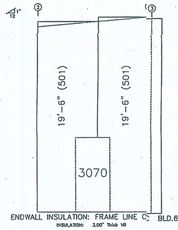


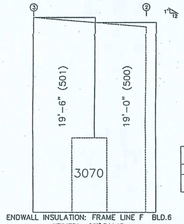
SIDEWALL INSULATION: FRAME LINE 3 BLD.5
INSULATION: 3.00" Thick VR

INSULATION TABLE FRAME LINE B 3				
ROLL	QUAN	MARK	WIDTH	LENGTH
400	5	WI-400	6'-0"	5'-6"
401	1	WI-401	6'-0"	6'-0"
402	1	WI-402	6'-0"	6'-6"
403	1	WI-403	6'-0"	7'-0"
404	1	WI-404	6'-0"	7'-6"
405	1	WI-405	6'-0"	8'-0"
406	1	WI-406	6'-0"	8'-6"
407	1	WI-407	6'-0"	9'-0"
408	1	WI-408	6'-0"	9'-6"
409	2	WI-409	6'-0"	10'-0"

LEGEND:
19'-6" (1)
Length (Roll #)







INSULATION TABLE FRAME LINE C F 2				
ROLL	QUAN	MARK	WIDTH	LENGTH
500	10	WI-500	6'-0"	19'-0"
501	3	WI-501	6'-0"	19'-6"

LEGEND:
19'-0" (1)
Length (Roll #)

DESIGN CRITERIA

BUILDING CODE:	FBC 17	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20.00	PSF
COLLATERAL LOAD:	4	PSF
SNOW LOAD (GROUND)	0	PSF
WIND SPEED: (ULTIMATE)	120	MPH
WIND EXPOSURE:	B	
BUILDING RISK CATEGORY	II - Normal	
ENCLOSURE CLASSIFICATION	Enclosed	

Gregory S. Barfield, P.E.
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P.E. # 54419

GREGORY S. BARFIELD LICENSE No 54419 STATE OF FLORIDA PROFESSIONAL ENGINEER

10-3-19

ELITE STRUCTURES
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FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S.
DATE: 5/16/17
DRAWN BY: B.BROWN
SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES

REVISION

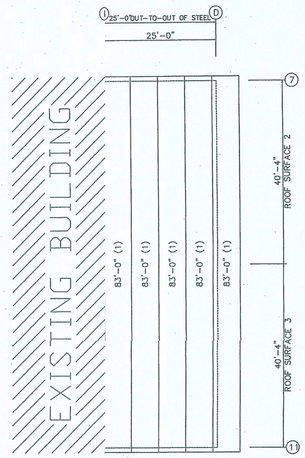
DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

PLAN:
WALL INSULATION

JOB # 10236-WI

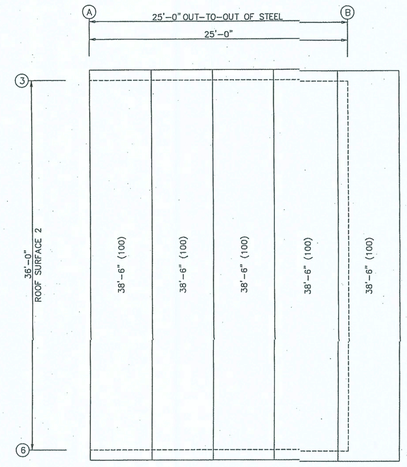
SHEET 8 OF 12



ROOF INSULATION BLD.1

INSULATION: 3.00" Thick VR

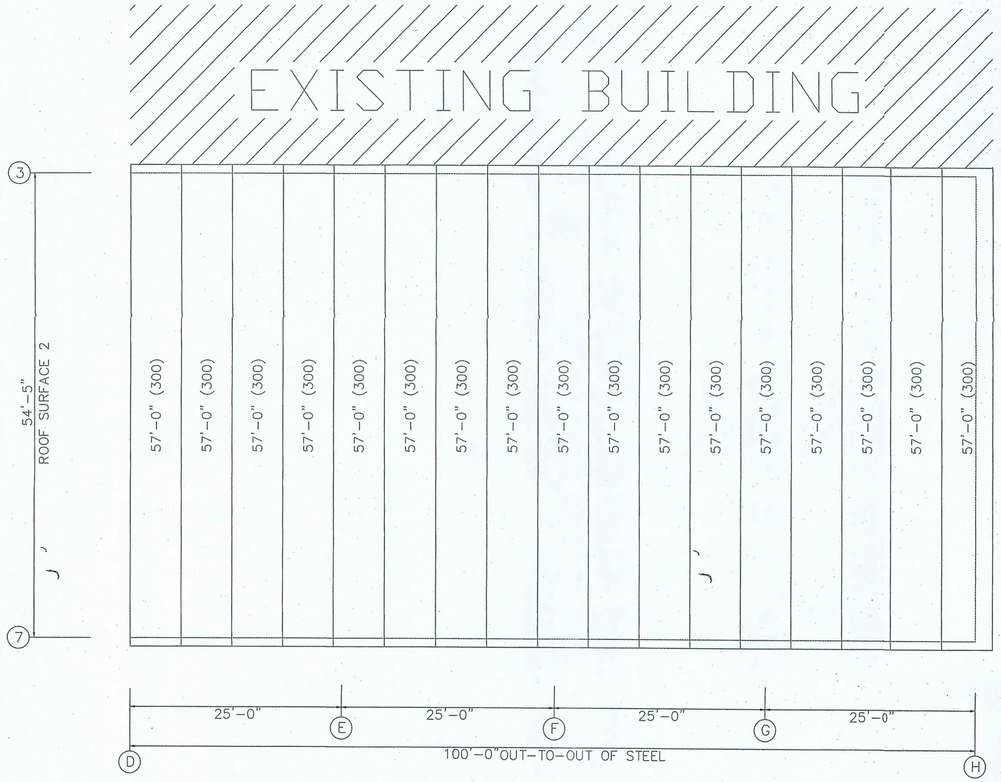
INSULATION TABLE ROOF PLAN				
ROLL	QUAN	MARK	WIDTH	LENGTH
1	5	RI-	6'-0"	83'-0"



ROOF INSULATION BLD.2

INSULATION: 3.00" Thick VR

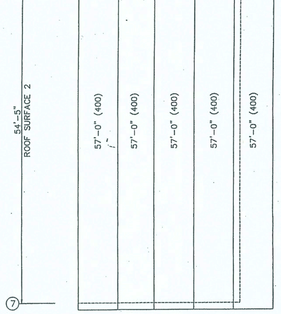
INSULATION TABLE ROOF PLAN				
ROLL	QUAN	MARK	WIDTH	LENGTH
100	5	RI-100	6'-0"	38'-6"



ROOF INSULATION BLD.4

INSULATION: 3.00" Thick VR

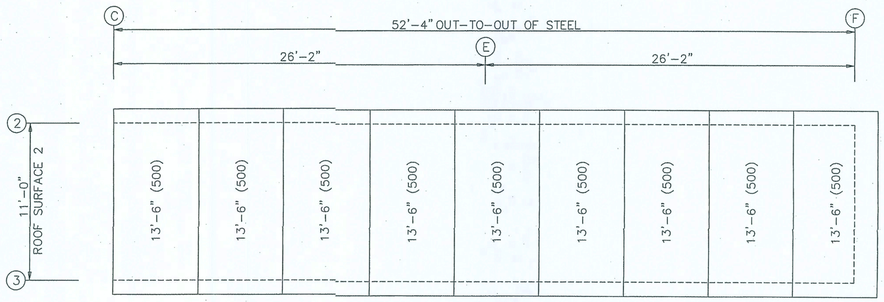
INSULATION TABLE ROOF PLAN				
ROLL	QUAN	MARK	WIDTH	LENGTH
300	17	RI-300	6'-0"	57'-0"



ROOF INSULATION BLD.5

INSULATION: 3.00" Thick VR

INSULATION TABLE ROOF PLAN				
ROLL	QUAN	MARK	WIDTH	LENGTH
400	5	RI-400	6'-0"	57'-0"



ROOF INSULATION BLD.6

INSULATION: 3.00" Thick VR

INSULATION TABLE ROOF PLAN				
ROLL	QUAN	MARK	WIDTH	LENGTH
500	9	RI-500	6'-0"	13'-6"

DESIGN CRITERIA

BUILDING CODE:	FBC 17
LIVE LOAD TO FRAMES:	12 PSF
LIVE LOAD TO PURLINS:	20.00 PSF
COLLATERAL LOAD:	4 PSF
SNOW LOAD (GROUND)	0 PSF
WIND SPEED: (ULTIMATE)	120 MPH
WIND EXPOSURE:	B
BUILDING RISK CATEGORY	II - Normal
ENCLOSURE CLASSIFICATION	Enclosed

Gregory S. Barfield, P.E.
2149 Neil Purvis Road
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P.E. # 54419

GREGORY S. BARFIELD LICENSE No 54419 STATE OF FLORIDA PROFESSIONAL ENGINEER

10-3-19

ELITE STRUCTURES
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ADEL , GA 31620

SCALE: N.T.S. | DATE: 5/16/17

DRAWN BY: B.BROWN | SALESMAN: L WHITEHURST

BUILDING SIZE: BUILDING VARIES

REVISION

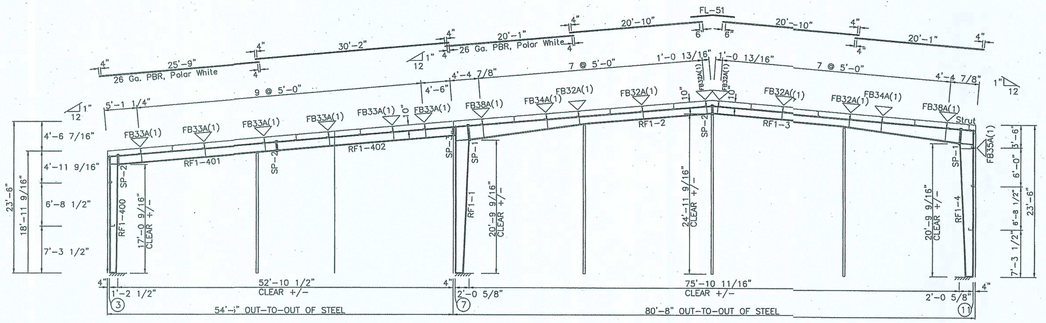
DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION: NETTLES SAUSAGE CO. BILLY NETTLES LAKE CITY, FL.

PLAN: ROOF INSULATION

JOB # 10236-RI

SHEET 9 OF 12

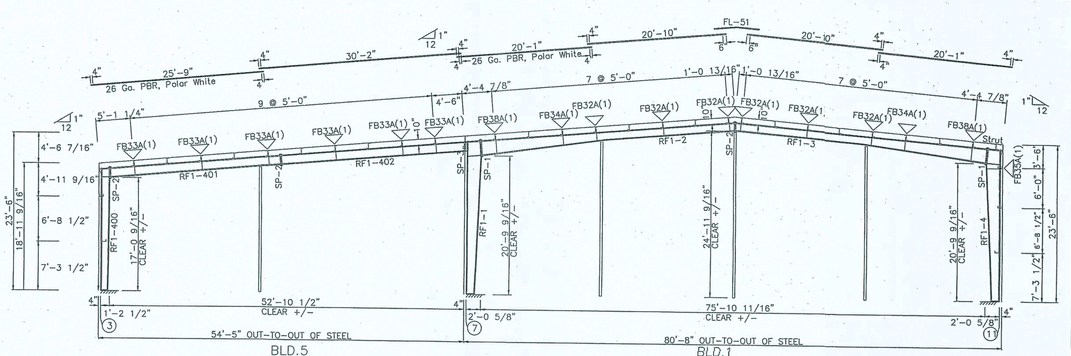


BUILDING CROSS SECTION: FRAME LINE B

MEMBER TABLE						
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	720	12.6/18.6	0.188	112.9	8 x 1/4" x 240.0	8 x 1/4" x 120.1
		18.6/18.2	0.188	118.0	8 x 3/8" x 31.4	8 x 3/8" x 125.7
		18.2/24.0	0.188	118.0	8 x 3/8" x 25.5	
		24.0/31.7	0.250	127.7		
RF1-2	873	24.0/17.7	0.188	118.0	6 x 1/4" x 240.0	6 x 3/8" x 103.7
		17.7/12.0	0.188	105.6	6 x 1/4" x 217.9	6 x 1/4" x 120.1
		12.0/12.0	0.188	118.0		6 x 1/4" x 233.3
		12.0/12.0	0.188	118.0		
RF1-3	874	12.0/12.0	0.188	116.3	6 x 1/4" x 217.9	6 x 1/4" x 233.3
		12.0/12.0	0.188	118.0	6 x 1/4" x 240.0	6 x 1/4" x 120.1
		12.0/17.7	0.188	105.6		6 x 3/8" x 103.7
		17.7/24.0	0.188	118.0		
RF1-4	713	24.0/31.7	0.250	127.7	8 x 3/8" x 26.0	8 x 3/8" x 125.7
		31.7/26.2	0.188	118.0	8 x 1/4" x 31.4	8 x 1/4" x 120.1
		26.2/12.0	0.188	115.6	8 x 1/4" x 240.0	
		12.0/12.0	0.188	19.0		
RF1-400	366	10.0/11.8	0.188	82.5	6 x 1/4" x 217.1	6 x 1/4" x 200.5
		11.8/14.0	0.188	118.0	6 x 5/16" x 18.3	
		14.0/14.0	0.188	17.8		
RF1-401	548	14.0/14.0	0.188	118.0	6 x 1/4" x 240.0	6 x 1/4" x 240.0
		14.0/14.0	0.188	118.0	6 x 1/4" x 85.0	6 x 1/4" x 66.2
		14.0/14.0	0.188	70.2		
RF1-402	579	14.0/14.0	0.188	118.0	6 x 1/4" x 240.0	6 x 1/4" x 240.0
		14.0/14.0	0.188	118.0	6 x 1/4" x 89.4	6 x 1/4" x 88.2
		14.0/14.0	0.188	93.4		

SPLICE BOLT TABLE							
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	2	A325	0.750	3.00
SP-2	4	4	0	A325	0.750	3.00
SP-3	4	0	0	A325	0.750	3.00

FLANGE BRACES: Both Sides(U.N.),
FBxxA(1): xx=length(in)
A – L2X2X14G

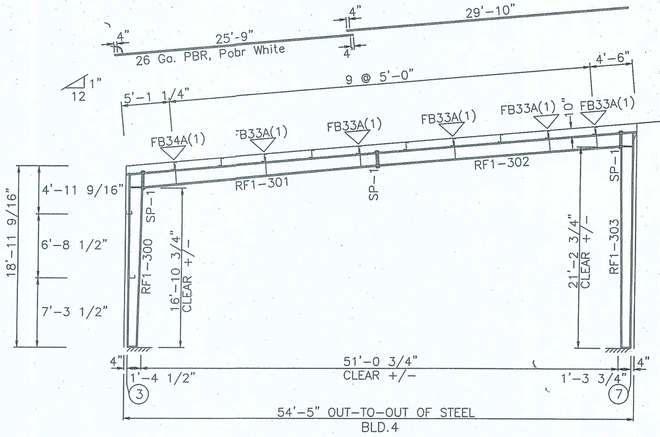


BUILDING CROSS SECTION: FRAME LINE D

MEMBER TABLE						
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	720	12.6/18.6	0.188	112.9	8 x 1/4" x 240.0	8 x 1/4" x 120.1
		18.6/18.2	0.188	118.0	8 x 3/8" x 31.4	8 x 3/8" x 125.7
		18.2/24.0	0.188	118.0	8 x 3/8" x 25.5	
		24.0/31.7	0.250	127.7		
RF1-2	873	24.0/17.7	0.188	118.0	6 x 1/4" x 240.0	6 x 3/8" x 103.7
		17.7/12.0	0.188	105.6	6 x 1/4" x 217.9	6 x 1/4" x 120.1
		12.0/12.0	0.188	118.0		6 x 1/4" x 233.3
		12.0/12.0	0.188	118.0		
RF1-3	874	12.0/12.0	0.188	116.3	6 x 1/4" x 217.9	6 x 1/4" x 233.3
		12.0/12.0	0.188	118.0	6 x 1/4" x 240.0	6 x 1/4" x 120.1
		12.0/17.7	0.188	105.6		6 x 3/8" x 103.7
		17.7/24.0	0.188	118.0		
RF1-4	713	24.0/31.7	0.250	127.7	8 x 3/8" x 26.0	8 x 3/8" x 125.7
		31.7/26.2	0.188	118.0	8 x 1/4" x 31.4	8 x 1/4" x 120.1
		26.2/12.0	0.188	115.6	8 x 1/4" x 240.0	
		12.0/12.0	0.188	19.0		
RF1-400	366	10.0/11.8	0.188	82.5	6 x 1/4" x 217.1	6 x 1/4" x 200.5
		11.8/14.0	0.188	118.0	6 x 5/16" x 18.3	
		14.0/14.0	0.188	17.8		
RF1-401	548	14.0/14.0	0.188	118.0	6 x 1/4" x 240.0	6 x 1/4" x 240.0
		14.0/14.0	0.188	118.0	6 x 1/4" x 85.0	6 x 1/4" x 66.2
		14.0/14.0	0.188	70.2		
RF1-402	579	14.0/14.0	0.188	118.0	6 x 1/4" x 240.0	6 x 1/4" x 240.0
		14.0/14.0	0.188	118.0	6 x 1/4" x 89.4	6 x 1/4" x 88.2
		14.0/14.0	0.188	93.4		

SPLICE BOLT TABLE							
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	2	A325	0.750	3.00
SP-2	4	4	0	A325	0.750	3.00
SP-3	4	0	0	A325	0.750	3.00

FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A – L2X2X14G

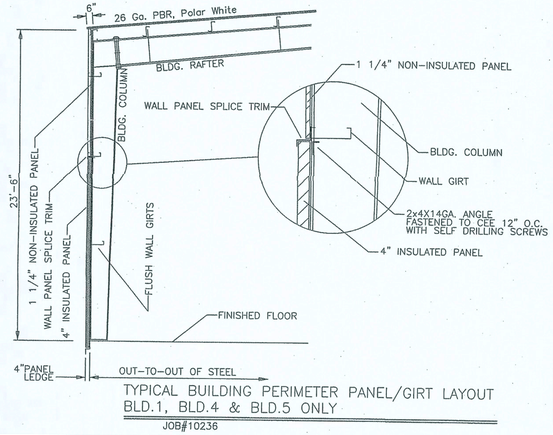


BUILDNG CROSS SECTION: FRAME LINE D

MEMBER TABLE						
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-300	376	10.0/13.0	0.188	100.5	6 x 1/4" x 217.1	6 x 1/4" x 198.8
		13.0/16.0	0.188	118.0	6 x 1/4" x 20.3	
RF1-301	560	16.0/15.2	0.188	118.0	6 x 1/4" x 240.0	6 x 1/4" x 240.0
		15.2/14.5	0.188	118.0	6 x 1/4" x 63.0	6 x 1/4" x 64.4
		14.5/14.0	0.188	68.4		
RF1-302	560	14.0/14.4	0.188	118.0	6 x 1/4" x 240.0	6 x 1/4" x 240.0
		14.4/14.8	0.188	118.0	6 x 1/4" x 69.6	6 x 1/4" x 68.3
		14.8/15.0	0.188	73.6		
RF1-303	516	15.0/13.0	0.188	118.0	6 x 1/4" x 19.3	6 x 1/2" x 130.8
		13.0/10.7	0.188	118.0	6 x 1/4" x 30.9	6 x 5/16" x 120.0
		10.7/10.0	0.188	34.9	6 x 1/4" x 240.0	

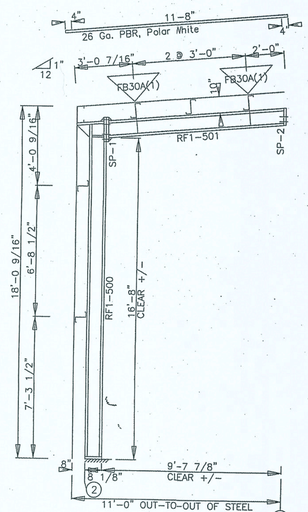
SPLICE BOLT TABLE							
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	3.00

FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A – L2X2X14G



TYPICAL BUILDING PERIMETER PANEL/GIRT LAYOUT
BLD.1, BLD.4 & BLD.5 ONLY

JOB#10236



BUILDING CROSS SECTION: FRAME LINE C BLD.6

MEMBER SIZE TABLE			
MARK	MEMBER	LENGTH	WEIGHT
RF1-500	W8X18	17'-3 3/16"	373
RF1-501	W8X10	5'-7 3/4"	130

SPLICE BOLT TABLE							
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	3.00
SP-2	4	4	0	A325	0.750	3.00

FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A – L2X2X14G

GENERAL NOTES:

BOLT TIGHTENING – ALL BOLTED JOINTS WITH A325-09 TYPI 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE SPECIFCATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 30,2004,PRETENSIONING METHODS, INCLUDING TURN-OF-NUT,CALIBRATED WRENCH,TWIST OFF TPE TENSION CONTROL BOLTS OR DIRECT TENSION INDICATOR ARE NOT REQUIRED, INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT (SPECIFICATION FOR STRUCTURAL JOINTS 9.1) IS SUGGESTED.

REFERENCE: STEEL CONSTRUCTION MANUAL
AMERICAN INSTITUTE OF STEEL CONSTRUCTION NC.
THIRTEENTH EDITION (AISC)

DESIGN CRITERIA

BUILDING CODE:	FBC	17
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20.00	PSF
COLLATERAL LOAD:	4	PSF
SNOW LOAD (GROUND)	0	PSF
WIND SPEED: (ULTIMATE)	120	MPH
WIND EXPOSURE:	B	
BUILDING RISK CATEGORY	II - Normal	
ENCLOSURE CLASSIFICATION	Enclosed	

ELITE STRUCTURES
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S.	DATE: 5/16/17
DRAWN BY: B.BROWN	SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES	

REVISION

DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

PLAN:
CROSS SECTIONS

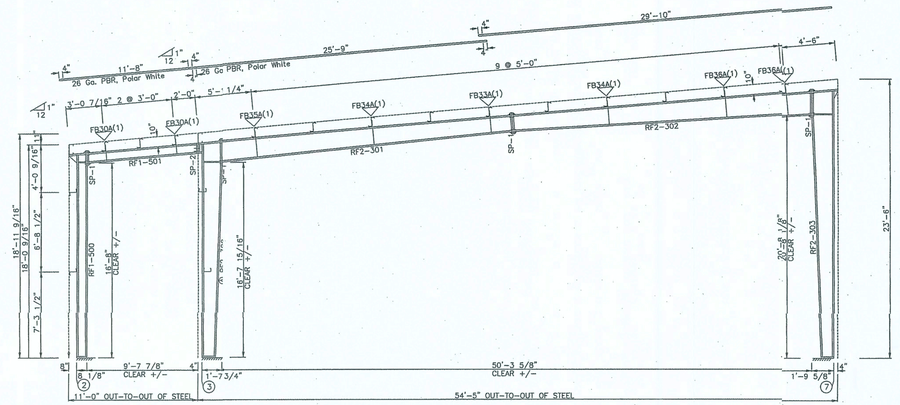
JOB # 10236-XS

SHEET 10A OF 12

Gregory S. Barfield, P.E.
2149 Nell Purvis Road
Adel, GA 31620
P.E. # 54419

GREGORY S. BARFIELD LICENSE No 54419 STATE OF FLORIDA PROFESSIONAL ENGINEER

10-3-19



BLD.6

BLD.4

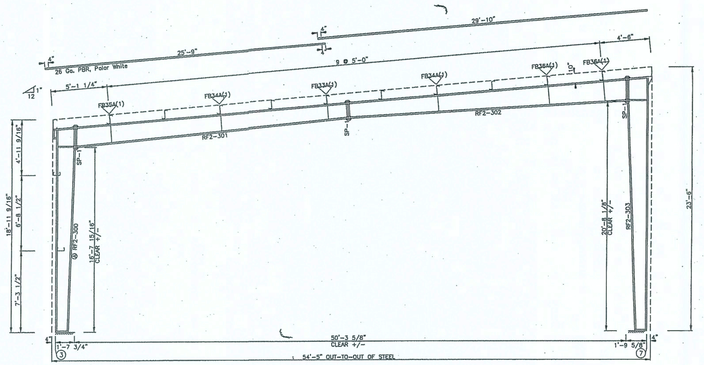
BUILDING CROSS SECTION: FRAME LINE E F

MEMBER TABLE							
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Dia x Length		Inside Flange W x Dia x Length
RF2-300	175	15.1/18.0	0.188	100.7	6 x 5/16" x 217.1		6 x 5/16" x 120.1
RF2-301	582	15.1/18.0	0.188	118.0	6 x 5/16" x 22.8		6 x 1/2" x 76.0
		19.0/17.0	0.188	118.0	6 x 1/4" x 240.0		6 x 1/4" x 240.0
		17.0/15.1	0.188	118.0	6 x 1/4" x 60.0		6 x 1/4" x 61.8
RF2-302	111	15.1/14.0	0.188	65.6			
		14.0/16.7	0.188	118.0	6 x 1/4" x 240.0		6 x 1/4" x 240.0
		16.7/19.5	0.188	118.0	6 x 1/4" x 63.6		6 x 1/4" x 61.9
		19.5/21.0	0.188	67.6			
RF2-303	328	21.0/16.9	0.188	118.0	8 x 1/4" x 25.3		8 x 3/8" x 124.3
		16.9/11.6	0.188	118.0	8 x 1/4" x 30.8		8 x 1/4" x 120.1
		11.6/10.0	0.188	34.8	8 x 1/4" x 240.0		
RF1-500	173	WBX18					
RF1-501	130	WBX10					

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	3.00
SP-2	4	0	0	A325	0.750	3.00

ALTERNATE MEMBER		
Frame Line	O/D	Mark
E	A	RF2-304

FLANGE BRACES: Both Sides(U.N.)
FBxx(1): xx=length(in)
A - L2X2X140



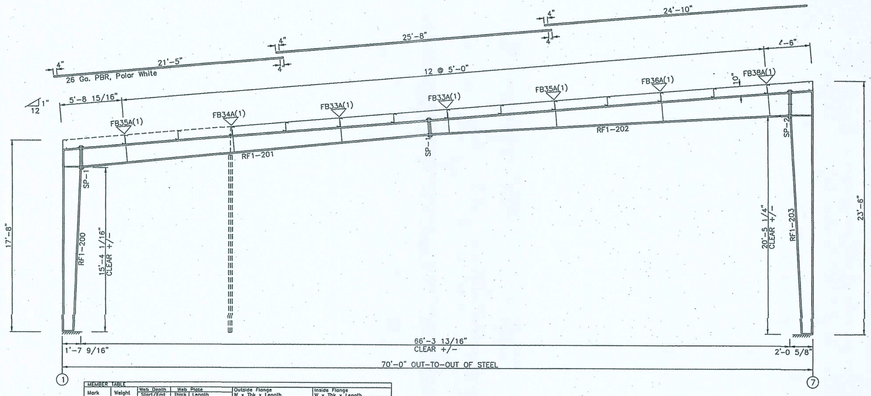
EJILDING CROSS SECTION: FRAME LINE G BLD.4

MEMBER TABLE							
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Dia x Length		Inside Flange W x Dia x Length
RF2-300	479	17.0/15.1	0.188	100.7	6 x 5/16" x 217.1		6 x 5/16" x 120.1
		15.1/19.0	0.188	118.0	6 x 5/16" x 22.8		6 x 1/2" x 76.0
RF2-301	582	19.0/17.0	0.188	118.0	6 x 1/4" x 240.0		6 x 1/4" x 240.0
		17.0/15.1	0.188	118.0	6 x 1/4" x 60.0		6 x 1/4" x 61.8
		15.1/14.0	0.188	65.6			
RF2-302	611	14.0/16.7	0.188	118.0	6 x 1/4" x 240.0		6 x 1/4" x 240.0
		16.7/19.5	0.188	118.0	6 x 1/4" x 63.6		6 x 1/4" x 61.9
		19.5/21.0	0.188	67.6			
RF2-303	628	21.0/16.9	0.188	118.0	8 x 1/4" x 25.3		8 x 3/8" x 124.3
		16.9/11.6	0.188	118.0	8 x 1/4" x 30.8		8 x 1/4" x 120.1
		11.6/10.0	0.188	34.8	8 x 1/4" x 240.0		

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	3.00

ALTERNATE MEMBER		
Frame Line	O/D	Mark
G	A	RF2-304

FLANGE BRACES: Both Sides(U.N.)
FBxx(1): xx=length(in).
A - L2X2X14G

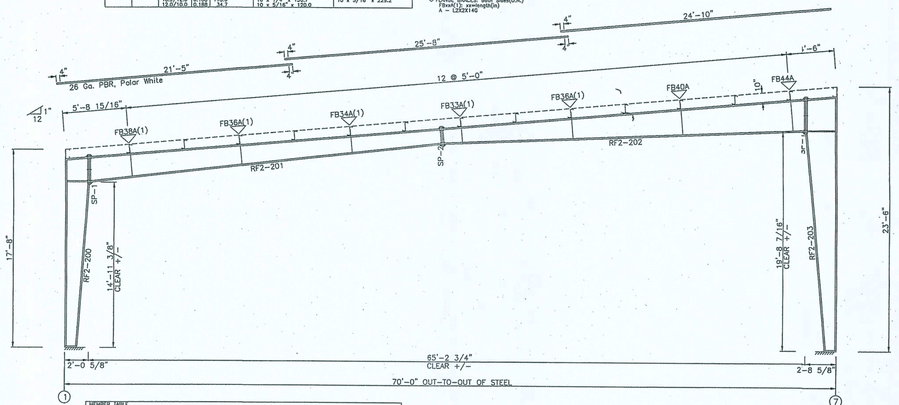


BUILDING CROSS SECTION: FRAME LINE H BLD.3

MEMBER TABLE							
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Dia x Length		Inside Flange W x Dia x Length
RF1-200	487	14.2/19.0	0.188	116.0	8 x 5/16" x 120.0		8 x 5/16" x 120.1
		14.2/19.0	0.188	116.0	8 x 1/2" x 80.7		8 x 1/4" x 39.6
					8 x 1/4" x 19.4		
RF1-201	747	19.0/17.5	0.188	118.0	8 x 1/4" x 240.0		6 x 1/4" x 240.0
		17.5/16.0	0.188	118.0	6 x 1/4" x 148.0		6 x 1/4" x 149.6
		16.0/14.5	0.188	118.0			
RF1-202	853	14.5/14.0	0.188	35.6			
		14.0/18.9	0.188	118.0	8 x 1/4" x 240.0		6 x 1/4" x 240.0
		18.9/18.8	0.188	118.0	8 x 1/4" x 168.2		6 x 1/4" x 166.3
		19.8/22.7	0.188	118.0			
		22.7/24.0	0.188	54.2			
RF1-203	795	24.0/16.9	0.188	118.0	10 x 1/4" x 24.4		10 x 5/16" x 12.0
		16.9/12.0	0.168	116.0	10 x 1/4" x 160.7		10 x 5/16" x 229.2
		12.0/10.0	0.188	34.7	10 x 5/16" x 120.0		

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	3.00
SP-2	4	4	2	A325	0.750	3.00

FLANGE BRACES: Both Sides(U.N.)
FBxx(1): xx=length(in)
A - L2X2X14G

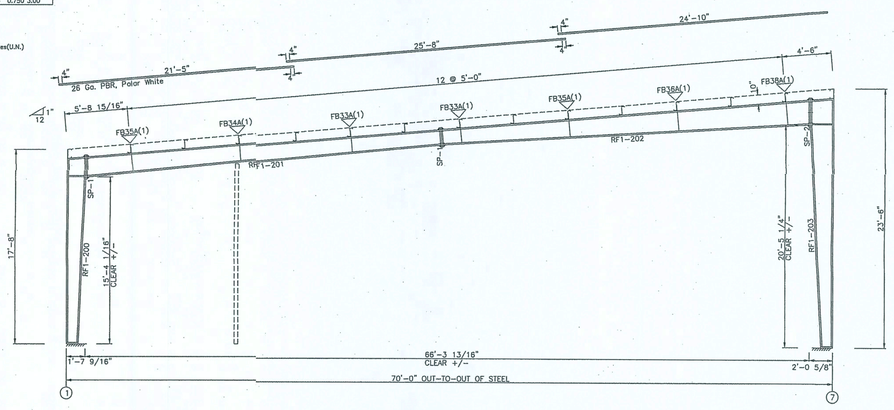


BUILDING CROSS SECTION: FRAME LINE I BLD.3

MEMBER TABLE							
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Dia x Length		Inside Flange W x Dia x Length
RF2-200	548	19.0/14.2	0.188	84.7	8 x 5/16" x 120.0		8 x 5/16" x 175.4
		16.8/24.0	0.188	118.0	8 x 1/2" x 80.7		
					8 x 5/16" x 19.4		
RF2-201	836	24.0/20.9	0.188	118.0	6 x 1/4" x 240.0		8 x 5/16" x 204.8
		20.9/17.8	0.188	118.0	6 x 1/4" x 23.7		8 x 1/4" x 180.1
		17.8/14.8	0.188	118.0	6 x 5/16" x 120.0		
RF2-202	956	14.8/19.2	0.188	118.0	6 x 5/16" x 120.0		6 x 1/4" x 240.0
		19.4/24.1	0.188	118.0	6 x 1/4" x 240.0		6 x 1/2" x 80.2
		24.7/32.0	0.188	118.0	6 x 1/4" x 60.1		6 x 5/16" x 97.5
		32.0/32.0	0.250	35.6			
RF2-203	901	32.0/32.0	0.250	35.6	10 x 1/4" x 29.4		10 x 5/16" x 333.0
		32.0/29.8	0.188	118.0	10 x 1/4" x 160.8		
		30.8/10.0	0.188	114.6	10 x 5/16" x 120.0		

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	2	A325	0.750	3.00
SP-2	4	4	0	A325	0.750	3.00

FLANGE BRACES: Both Sides(U.N.)
FBxx(1): xx=length(in)
A - L2X2X14G



BUILDING CROSS SECTION: FRAME LINE J BLD.3

MEMBER TABLE							
Mark	Weight	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Dia x Length		Inside Flange W x Dia x Length
RF1-200	487	19.0/14.2	0.188	84.7	8 x 5/16" x 120.0		8 x 5/16" x 120.1
		14.2/19.0	0.188	116.0	8 x 1/2" x 80.7		8 x 1/4" x 39.6
					8 x 1/4" x 19.4		
RF1-201	747	19.0/17.5	0.188	118.0	8 x 1/4" x 240.0		6 x 1/4" x 240.0
		17.5/16.0	0.188	118.0	6 x 1/4" x 148.0		6 x 1/4" x 149.6
		16.0/14.5	0.188	118.0			
RF1-202	853	14.5/14.0	0.188	35.6			
		14.0/18.9	0.188	118.0	8 x 1/4" x 240.0		6 x 1/4" x 240.0
		18.9/18.8	0.188	118.0	8 x 1/4" x 168.2		6 x 1/4" x 166.3
		19.8/22.7	0.188	118.0			
		22.7/24.0	0.188	54.2			
RF1-203	795	24.0/16.9	0.188	118.0	10 x 1/4" x 24.4		10 x 5/16" x 12.0
		16.9/12.0	0.168	116.0	10 x 1/4" x 160.7		10 x 5/16" x 229.2
		12.0/10.0	0.188	34.7	10 x 5/16" x 120.0		

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	3.00
SP-2	4	4	2	A325	0.750	3.00

FLANGE BRACES: Both Sides(U.N.)
FBxx(1): xx=length(in)
A - L2X2X14G

GENERAL NOTES:

BOLT TIGHTENING – ALL BOLTED JOINTS WITH A325-09 TYPE 1 BOLTS ARE SPECIFIED AT SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 30,2004, PRETENSIONING METHODS, INCLUDING TURN-OF-NUT,CALIBRATED WRENCH,TWIST OFF TYPE TENSION CONTROL BOLTS OR DIRECT TENSION INDICATOR ARE NOT REQUIRED, INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT (SPECIFICATION FOR STRUCTURAL JOINTS 9.1) IS SUGGESTED.

REFERENCE: STEEL CONSTRUCTION MANUAL
AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC.
THIRTEENTH EDITION (ASD)

DESIGN CRITERIA

BUILDING CODE:	FBC 17	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20.00	PSF
COLLATERAL LOAD:	4	PSF
SNOW LOAD (GROUND)	0	PSF
WIND SPEED: (ULTIMATE)	120	MPH
WIND EXPOSURE:	B	
BUILDING RISK CATEGORY	II - Normal	
ENCLOSURE CLASSIFICATION	Enclosed	

Gregory S. Barfield, P.E.
2149 Nell Purvis Road
Adel, GA 31620
P.E. # 54419

GREGORY S. BARFIELD LICENSE No 54419 STATE OF FLORIDA PROFESSIONAL ENGINEER

10-3-19

ELITE STRUCTURES
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL, GA 31620

SCALE: N.T.S.	DATE: 5/16/17
DRAWN BY: B.BROWN	SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES	

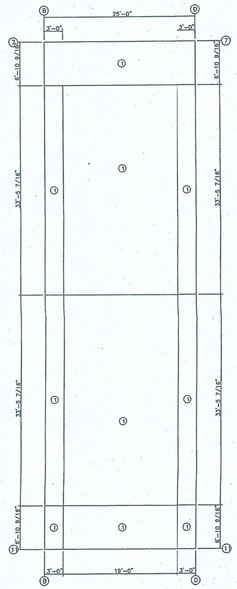
REVISION		
DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL

PLAN:
CROSS SECTIONS

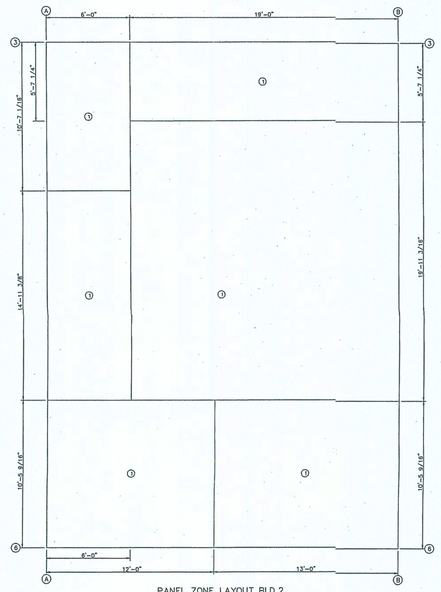
JOB # 10236-XS

SHEET 10B OF 12



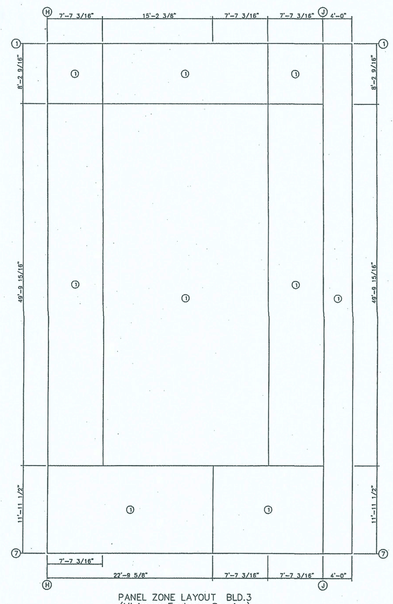
PANEL ZONE LAYOUT BLD.1
(Minimum Fastener Spacing)

FASTENER TABLE		
O ID	SCREW PART	SPACE (in)
1	12x1.25	6.0



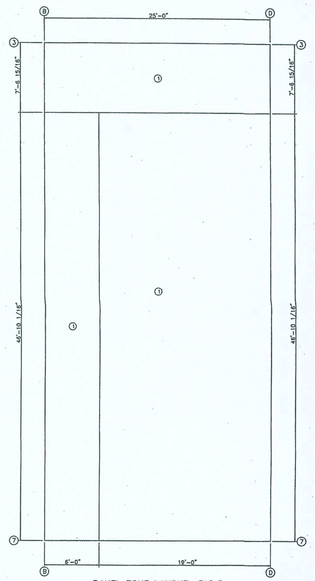
PANEL ZONE LAYOUT BLD.2
(Minimum Fastener Spacing)

FASTENER TABLE		
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1	12x1.25	6.0



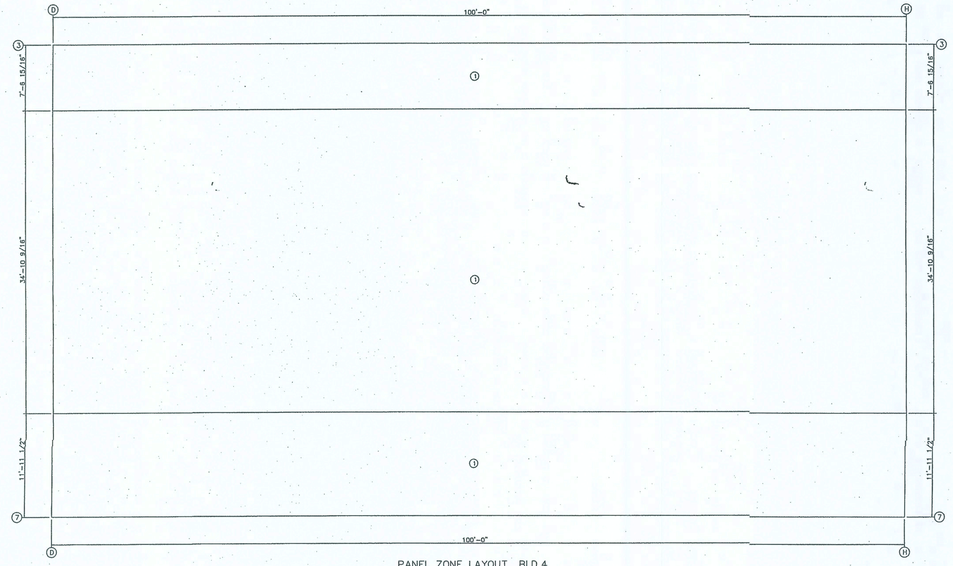
PANEL ZONE LAYOUT BLD.3
(Minimum Fastener Spacing)

FASTENER TABLE		
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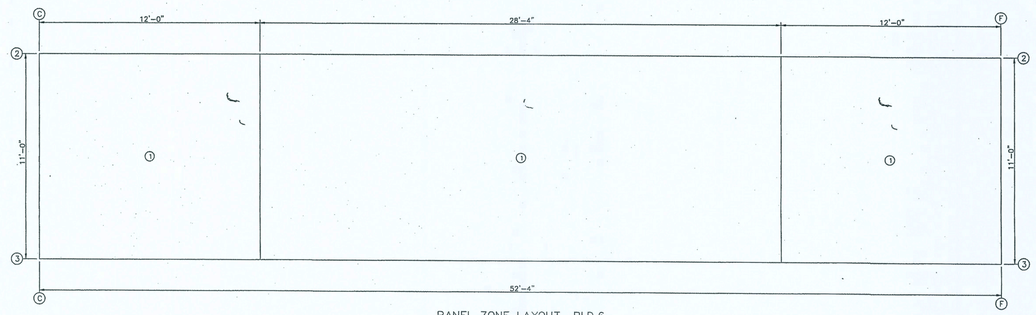
PANEL ZONE LAYOUT BLD.5
(Minimum Fastener Spacing)

FASTENER TABLE		
O ID	SCREW PART	SPACE (in)
1	12x1.25	6.0



PANEL ZONE LAYOUT BLD.4
(Minimum Fastener Spacing)

FASTENER TABLE		
O ID	SCREW PART	SPACE (in)
1	12x1.25	6.0



PANEL ZONE LAYOUT BLD.6
(Minimum Fastener Spacing)

FASTENER TABLE		
O ID	SCREW PART	SPACE (in)
1	12x1.25	6.0

DESIGN CRITERIA

BUILDING CODE:	FBC	17
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20.00	PSF
COLLATERAL LOAD:	4	PSF
SNOW LOAD (GROUND)	0	PSF
WIND SPEED: (ULTIMATE)	120	MPH
WIND EXPOSURE:	B	
BUILDING RISK CATEGORY	II - Normal	
ENCLOSURE CLASSIFICATION	Enclosed	

Gregory S. Barfield, P.E.
2149 Nell Purvis Road
Adel, GA 31620
P.E. # 54419

GREGORY S. BARFIELD LICENSE No 54419 STATE OF FLORIDA PROFESSIONAL ENGINEER

10-3-19

ELITE STRUCTURES
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 5/16/17
DRAWN BY: B.BROWN | SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES

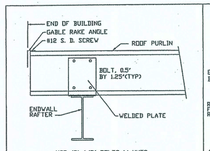
REVISION		
DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

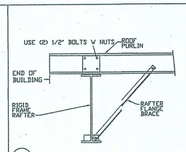
PLAN:
ZONE LAYOUT

JOB # 10236-ZL

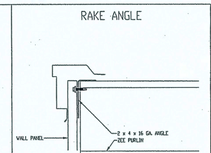
SHEET 11 OF 12

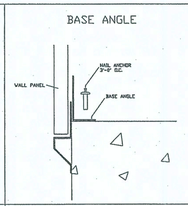


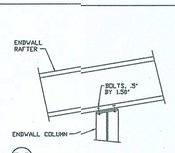
A7 SECTION THRU ENDWALL RAFTER



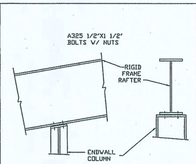
A10 ROOF PURLIN TO EXPANDALE ENDWALL RIGID FRAME



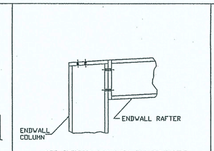




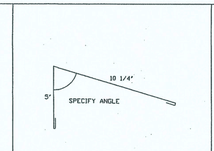
B3 ENDWALL RAFTER TO COLUMN



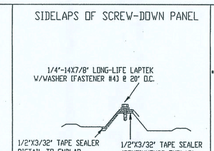
B20 RIGID FRAME RAFTER TO ENDWALL COLUMN

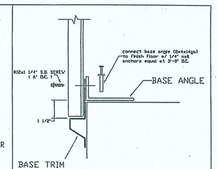


B23 CORNER COLUMN TO ENDWALL RAFTER

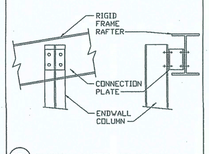


E330

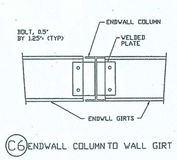




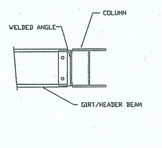
BASE ANGLE W/ TRIM



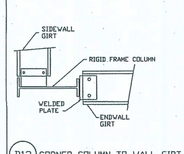
B36 ENDWALL RAFTER TO COLUMN



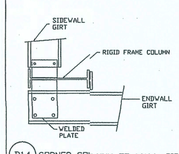
C6 ENDWALL COLUMN TO WALL GIRT



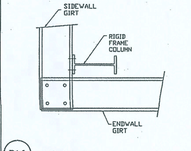
C48 GIRT/HEADER BEAM TO R/W COLUMN



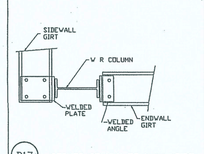
D13 CORNER COLUMN TO WALL GIRT



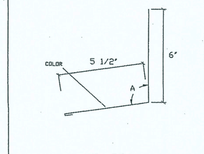
D14 CORNER COLUMN TO WALL GIRT



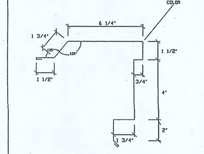
D16 CORNER COLUMN TO WALL GIRT



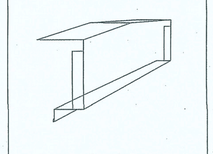
D17 CORNER COLUMN TO WALL GIRT



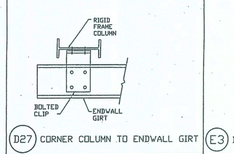
FL-874



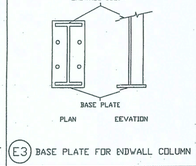
E-101



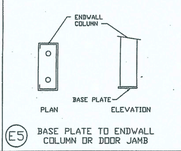
E-146



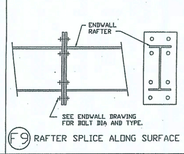
D27 CORNER COLUMN TO ENDWALL GIRT



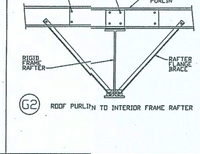
E3 BASE PLATE FOR ENDWALL COLUMN



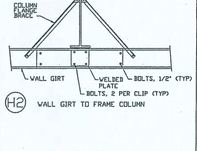
E5 BASE PLATE TO ENDWALL COLUMN OR DOOR JAMB



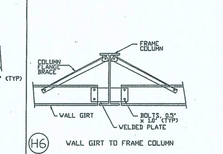
F9 RAFTER SPLICE ALONG SURFACE



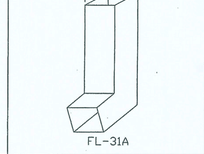
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



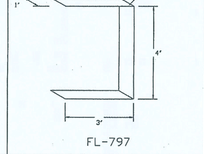
H2 WALL GIRT TO FRAME COLUMN



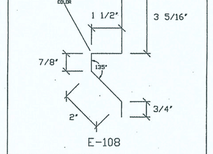
H6 WALL GIRT TO FRAME COLUMN



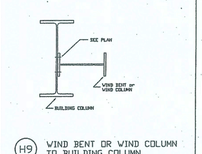
FL-31A



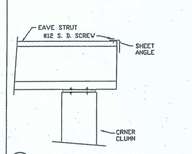
FL-797



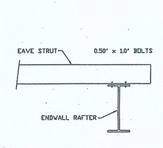
E-108



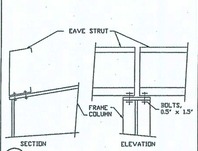
H9 WIND BENT OR WIND COLUMN TO BUILDING COLUMN



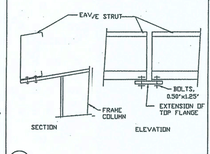
I15 EAVE STRUT TO CORNER COLUMN



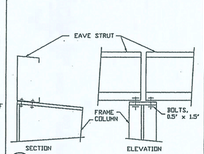
I17 EAVE STRUT TO ENDWALL RAFTER



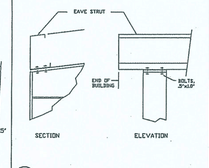
J1 EAVE STRUT TO RIGID FRAME



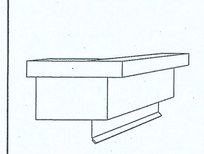
J2 EAVE STRUT TO RIGID FRAME



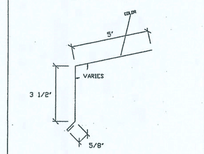
J7 EAVE STRUT TO RIGID FRAME



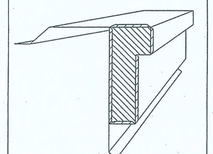
J23 EAVE STRUT TO RIGID FRAME



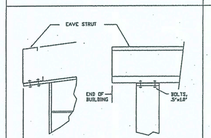
E-102, E-103, E-143, E-144



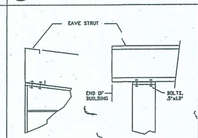
FL-19



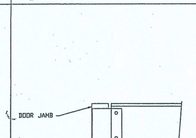
E-105, E-145



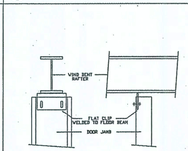
J24 EAVE STRUT TO RIGID FRAME



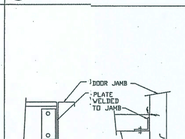
J25 EAVE STRUT TO RIGID FRAME



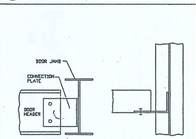
K3 WALL GIRT TO DOOR JAMB



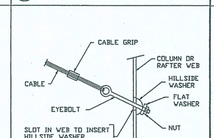
L79 DOOR JAMB TO WIND BENT



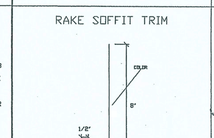
M5 DOOR HEADER TO DOOR JAMB



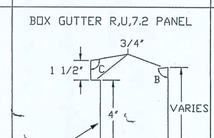
M14 DOOR HEADER TO DOOR JAMB



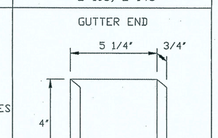
Q2 DIAGONAL CABLE, EYEBOLT END



E-141



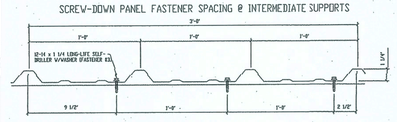
E-114



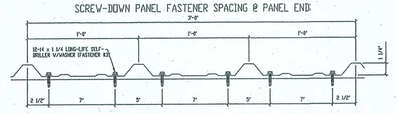
E-115

SCREW DOWN PANEL FASTENER LAYOUT ON EXTERIOR OF BUILDING

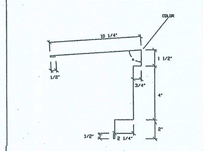
SCREW-DOWN PANEL FASTENER SPACING @ INTERMEDIATE SUPPORTS



SCREW-DOWN PANEL FASTENER SPACING @ PANEL END

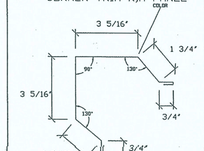


HIGH SIDE BOX EAVE



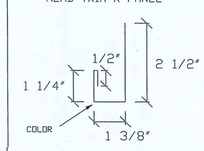
E-139

CORNER TRIM R,A PANEL



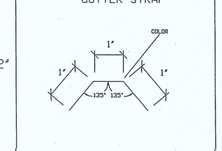
FL-830

HEAD TRIM R PANEL



FL-26

GUTTER STRAP



FL-893

DESIGN CRITERIA

BUILDING CODE:	FBC 17
LIVE LOAD TO FRAMES:	12 PSF
LIVE LOAD TO PURLINS:	20.00 PSF
COLLATERAL LOAD:	4 PSF
SNOW LOAD (GROUND)	0 PSF
WIND SPEED: (ULTIMATE)	120 MPH
WIND EXPOSURE:	B
BUILDING RISK CATEGORY	II - Normal
ENCLOSURE CLASSIFICATION	Enclosed

Gregory S. Barfield, P.E.
2149 Hall Purvis Road
Adel, GA 31620
P.E. # 54419

GREGORY S. BARFIELD LICENSE No 54419 STATE OF FLORIDA PROFESSIONAL ENGINEER

10-3-19

ELITE STRUCTURES
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 5/16/17
DRAWN BY: B.BROWN | SALESMAN: L WHITEHURST
BUILDING SIZE: BUILDING VARIES

REVISION

DATE:	DESCRIPTION	
	REVISED: 5-18-2017	REVISED: 2-19-19
	REVISED: 7-28-2017	
	REVISED: 4-7-18	

TITLE/LOCATION
NETTLES SAUSAGE CO.
BILLY NETTLES
LAKE CITY, FL.

PLAN:
DETAIL PAGE

JOB # 10236-DP
SHEET 12 OF 12