SUMTER COUNTY COMPOSTING, PROCESSING AND RECYCLING FACILITY

COMPOST FINISHING BUILDING

Board of County Commissioners
Sumter County, Florida

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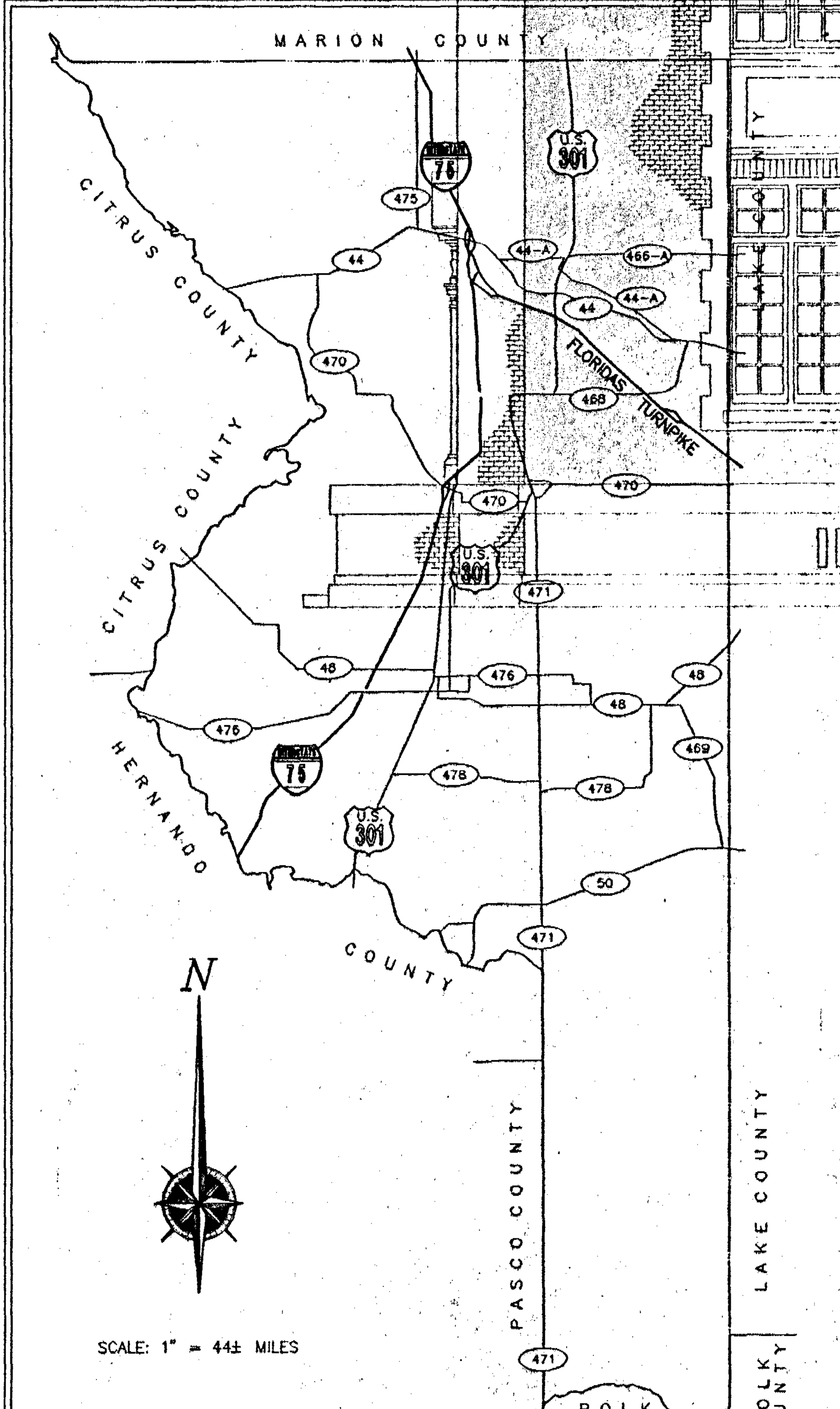
TERRY HURST
FACILITY DIRECTOR



GENERAL HIGHWAY MAP
SUMTER COUNTY
FLORIDA

Sumter County

INDEX	
DESCRIPTION	SHEET
COVER SHEET	1
SITE PLAN	2
FLOOR PLAN	3
FOUNDATION PLAN	4
ELEVATIONS	5
ELEVATIONS	6
ELECTRICAL PLAN	7

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REV. BY:	DESCRIPTION	DATE:	DRAWN

CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT: COMPOST FINISHING BUILDING
DRAWING: COVER SHEET
1 of 7

Springstead Engineering, inc.
Consulting Engineers
Planners
Surveyors
727 South 14th Street
Leesburg, Fl. 32749
(904) 787-1414

SCALE:	FILE:	DATE:
1" = 10'	COVER	07/18/97
DESIGN:	DRAWN:	CHECKED:

DRAWING: COVER SHEET
CLIENT: S.C.B.C.C.
JOB NO.: 92-1100.005
SHEET: 1 OF: 7

RECEIVED
SEP 03 1997
D E P

FILE

Finishing Bldg
AUG 29 1997

C:\ACAD12\DWGS\92-1100.005\JBVCOVER Fri Jul 18 08:54:43 1997 *** NCH ***

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REV. BY:	DESCRIPTION	DATE:	DRAWN

CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT: COMPOST FINISHING BUILDING

DRAWING: SITE PLAN

2 of 7

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Leesburg, Fl. 34748
(352) 787-1414

SCALE:	FILE:	DATE:
1"=50'	SOUTH40	7/97
DESIGN: MHS	DRAWN: MHS	CHECKED: MHS

DRAWING: COMPOST FINISHING BUILDING SITE PLAN

CLIENT: SCBCC

JOB NO.:	SHEET: 2
92-1100.000	OF: 7

AUG 29 1997

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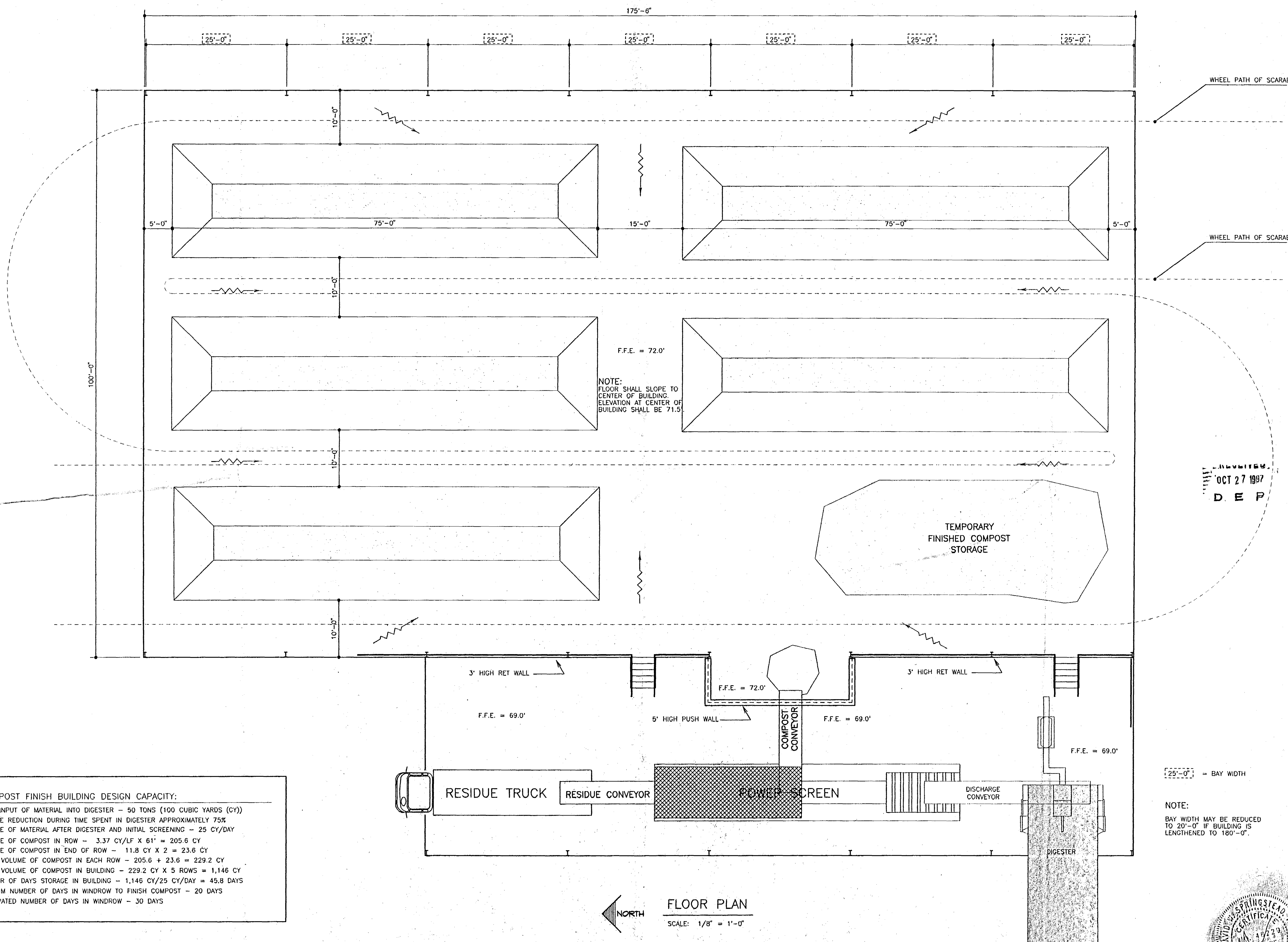
3



RECEIVED OCT 27 1997 D.E.P.

25'-0" = BAY WIDTH

NOTE:
BAY WIDTH MAY BE REDUCED TO 20'-0" IF BUILDING IS LENGTHENED TO 180'-0".

COMPOST FINISH BUILDING DESIGN CAPACITY:

DAILY INPUT OF MATERIAL INTO DIGESTER – 50 TONS (100 CUBIC YARDS (CY))
VOLUME REDUCTION DURING TIME SPENT IN DIGESTER APPROXIMATELY 75%
VOLUME OF MATERIAL AFTER DIGESTER AND INITIAL SCREENING – 25 CY/DAY
VOLUME OF COMPOST IN ROW – 3.37 CY/LF X 61' = 205.6 CY
VOLUME OF COMPOST IN END OF ROW – 11.8 CY X 2 = 23.6 CY
TOTAL VOLUME OF COMPOST IN EACH ROW – 205.6 + 23.6 = 229.2 CY
TOTAL VOLUME OF COMPOST IN BUILDING – 229.2 CY X 5 ROWS = 1,146 CY
NUMBER OF DAYS STORAGE IN BUILDING – 1,146 CY/25 CY/DAY = 45.8 DAYS
MINIMUM NUMBER OF DAYS IN WINDROW TO FINISH COMPOST – 20 DAYS
ANTICIPATED NUMBER OF DAYS IN WINDROW – 30 DAYS

FLOOR PLAN

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

REV. BY:	DATE:	DESCRIPTION:
DWS	10/24/97	ADD INFORMATION PER DEP RAI

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CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT: COMPOST FINISHING BUILDING

DRAWING: FLOOR PLAN

3 of 7

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SCALE:	FILE:	DATE:
1/8"=1'	FL	3/21/97
DESIGN:	DRAWN:	CHECKED:
DWS		DWS

DRAWING: COMPOST FINISHING BUILDING FLOOR PLAN

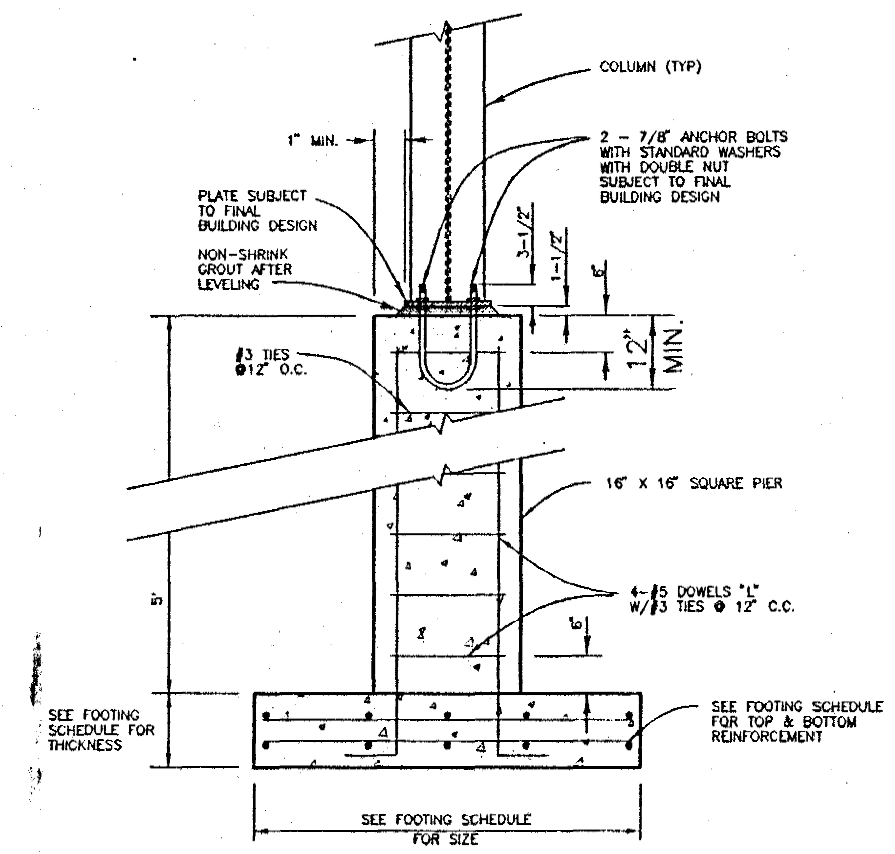
CLIENT: SCBCC

JOB NO.:	SHEET: 3
921100.005	OF: 7

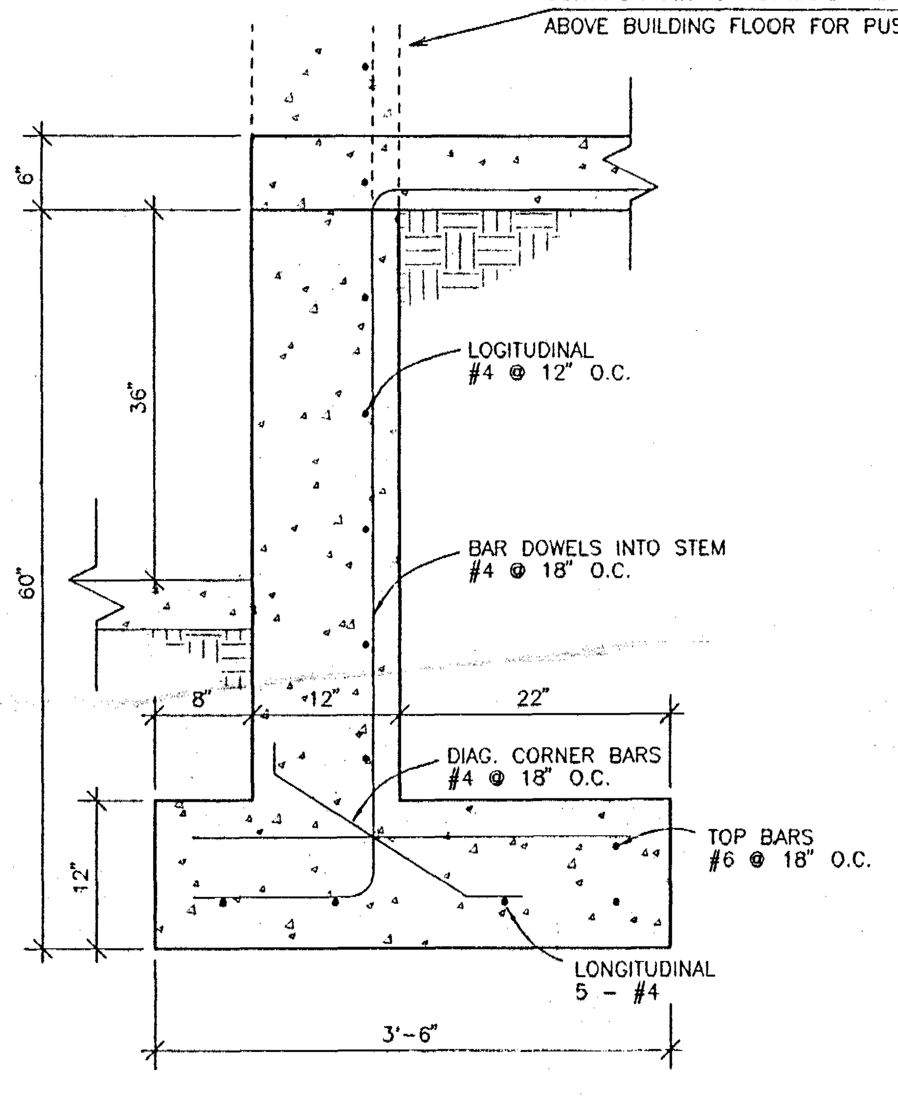
DAVID W. SPRINGSTEAD, P.E. CERTIFICATE NO. PROFESSIONAL ENGINEER

Finishing Bldg

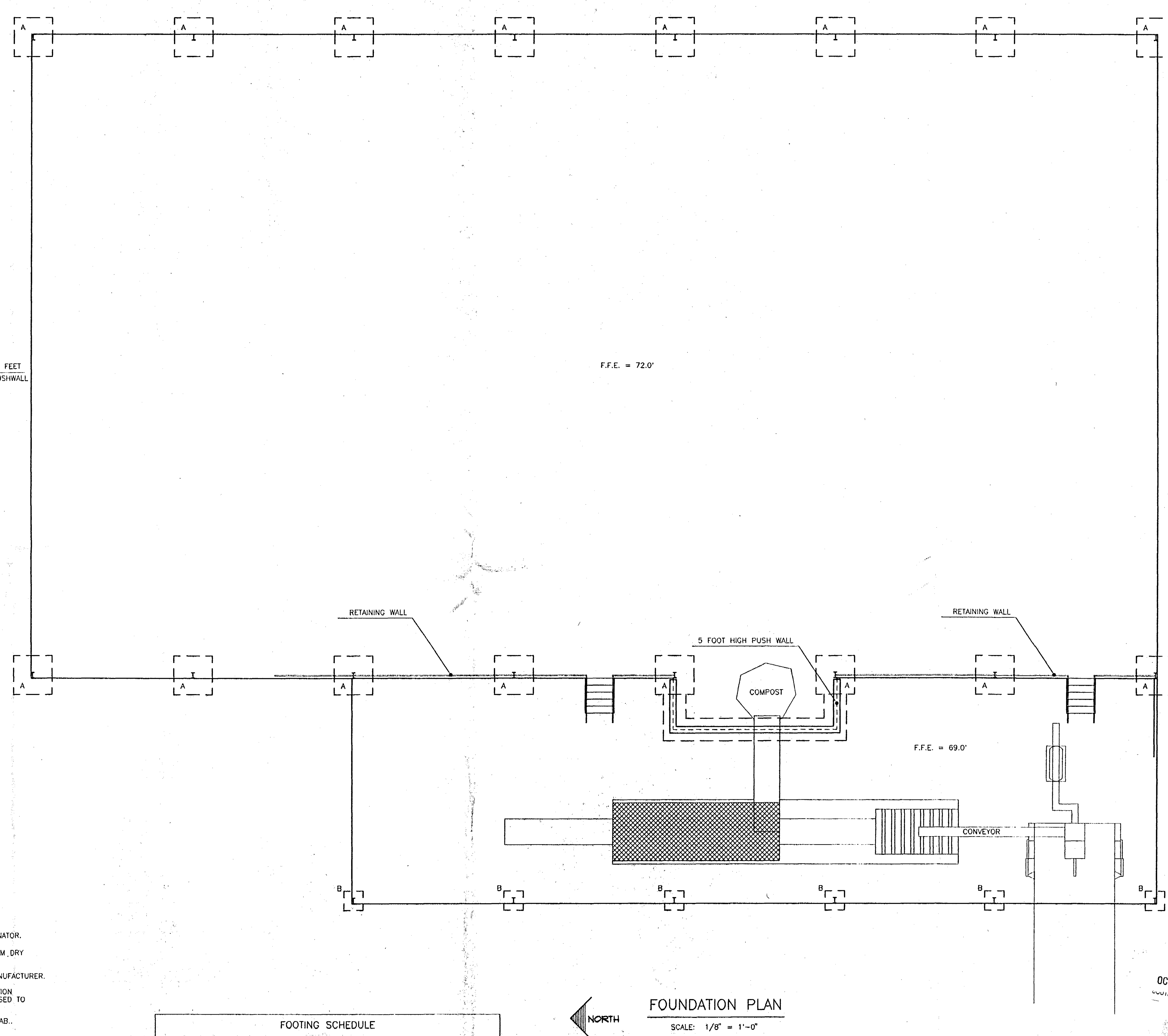
FILE OCT 24 1997



FOUNDATION DETAIL (Typ.)
not to scale



12" WIDE RETAINING WALL
1" = 1'-0"



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

FOUNDATION NOTES:

1. ALL CONCRETE TO BE 3000 P.S.I. AT 28 DAY STRENGTH.
2. BILLET STEEL BARS FOR REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, GRADE 60.
3. FOUNDATION DESIGN IS BASED ON A SOIL BEARING CAPACITY OF 3000 PSF AS INDICATED IN SOILS REPORT BY CENTRAL TESTING LABORATORIES.
4. SOIL SHALL BE TREATED FOR TERMITES BY A LICENSED EXTERMINATOR.
5. COMPACTION OF SOIL UNDER ALL CONCRETE TO BE 95% MAXIMUM DRY DENSITY BY MODIFIED PROCTOR.
6. FINAL FOUNDATION DESIGN SUBJECT TO BUILDING DESIGN BY MANUFACTURER.
7. STEEL REINFORCING TO HAVE 3" COVER FOR FACES OF FOUNDATION PERMANENTLY EXPOSED TO EARTH AND 2" FOR CONCRETE EXPOSED TO WEATHER, 1-1 1/2" ELSEWHERE.
8. 6 MIL VAPOR BARRIER REQUIRED BENEATH FOUNDATIONS AND SLAB..
9. FLOOR SLAB THICKNESS WILL BE 6" WITH #4 REBAR @ 12" O.C., BOTH WAYS.
10. FILL MATERIAL, IF NECESSARY, WILL BE AVAILABLE ON SITE.
11. STEPS ARE TO BE MADE OF FORMED CONCRETE.
12. HANDRAIL SHALL CONSIST OF 42" HIGH – 3 RAIL SYSTEM OF 1-1/2" SQUARE TUBE WITH POSTS EMBEDDED INTO CONCRETE RETAINING WALL: HANDRAIL SHALL BE PAINTED OSHA YELLOW.

FOOTING SCHEDULE

MARK	SIZE (L X W X T)	REBAR REQUIREMENTS
A	6'-0" X 6'-0" X 48"	7 #5 EACH WAY TOP & BOTTOM @ 11" O.C.
B	4'-0" X 4'-0" X 24"	6 #4 EACH WAY TOP & BOTTOM @ 9" O.C.

D.E.P.
OCT 27 1997
SOUTHWEST DISTRICT
TAMPA

REV. BY:	DESCRIPTION	DATE:	DRAWN
DWS	ADD INFORMATION PER DEP RAI	10/24/97	DWS

CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT: COMPOST FINISHING BUILDING
DRAWING: FOUNDATION PLAN
4 of 7

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Leesburg, Fl. 34748
(352) 787-1414

SCALE:	FILE:	DATE:
1/8"=1'	FNDFIN	3/21/97
DESIGN:	DRAWN:	CHECKED:
DWS	8	DWS

DRAWING: COMPOST FINISHING BUILDING FOUNDATION PLAN
CLIENT: SCBCC
JOB NO.: 921100.005
SHEET: 4 OF: 7

OCT 24 1997

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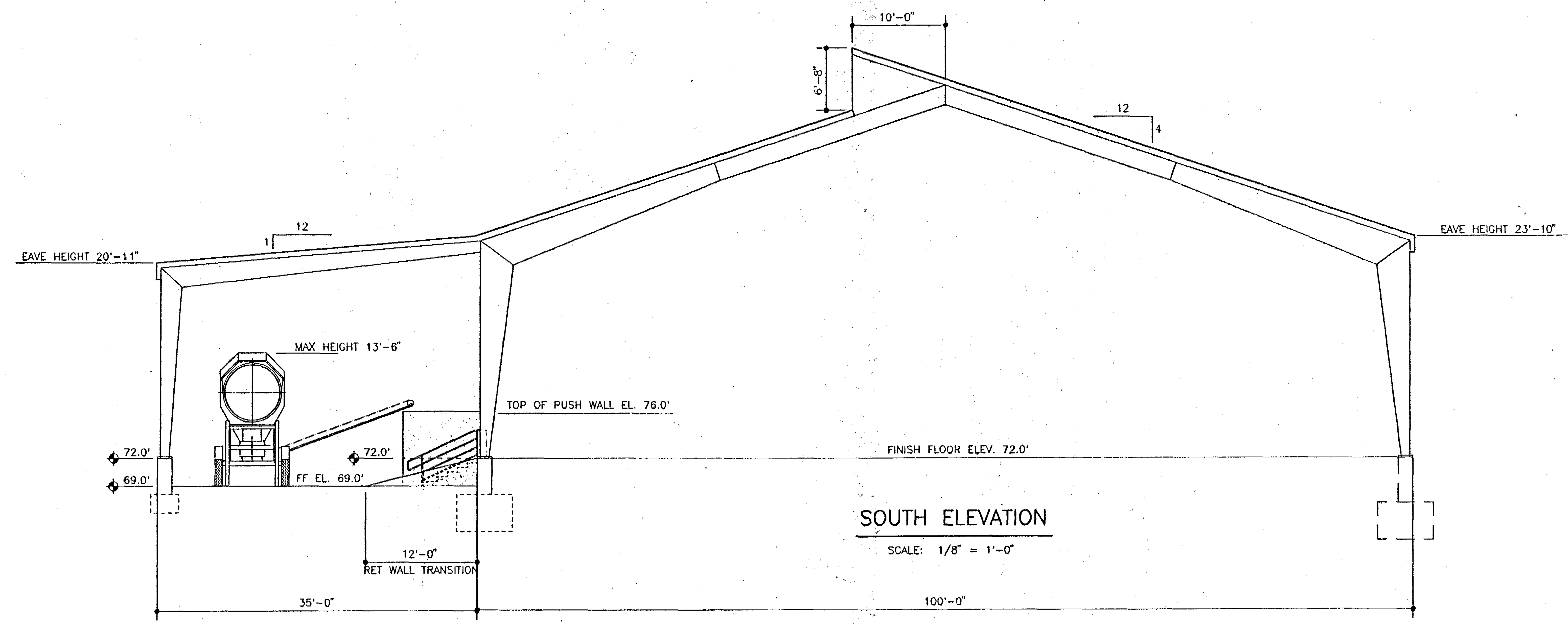
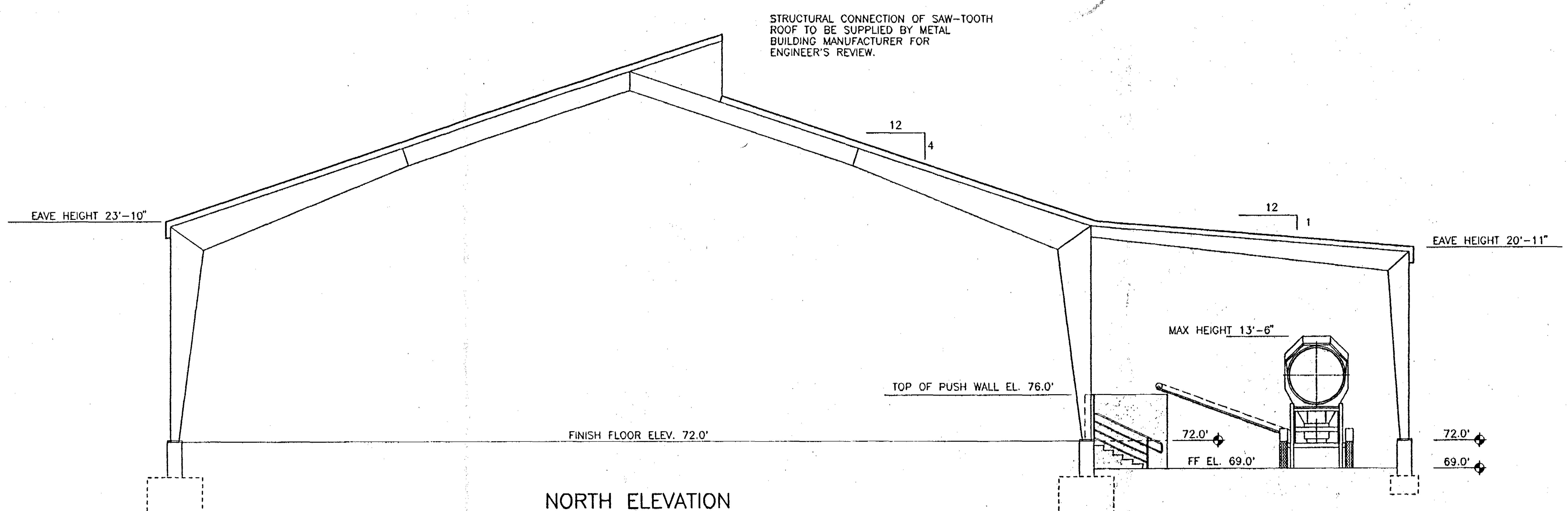


SOUTH ELEVATION

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



NORTH ELEVATION

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

PRE-ENGINEERED & PREFABRICATED METAL BUILDINGS (MB) NOTES:

A. THE METAL BUILDING SHALL BE A PRE-ENGINEERED STRUCTURE TO THE MANUFACTURER'S STANDARD CONSTRUCTION SPECIFICATIONS AND AGREEMENTS WITH THE OWNER. OVERALL DIMENSIONS SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. DESIGN LOADS SHALL COMPLY WITH THE STANDARD BUILDING CODES AS FOLLOWS:

BUILDING DESIGN FOR WIND LOADS PER SBC_{88} SEC 1205:

WITH BUILDING USE OCCUPANCY FACTOR		1.15
WITH FASTEST MILE WIND VELOCITY		100 MPH
WITH WIND VELOCITY PRESSURE @ 0-15' HEIGHT		21 PSF
	20' HEIGHT	23 PSF

BUILDING DESIGN ROOF LIVE LOAD:

WITH TRIBUTARY AREA 0 TO 200 FT^2	20 PSF
WITH TRIBUTARY AREA 201 TO 600 FT^2	16 PSF
WITH TRIBUTARY AREA OVER 600 FT^2	12 PSF

B. THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR THE METAL BUILDING SHALL CONFORM TO THE REQUIREMENTS OF EITHER THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS OR THE AISC LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

C. THE DESIGN FABRICATION AND ERECTION OF COLD-FORMED STEEL CONSTRUCTION FOR THE METAL BUILDING SHALL CONFORM TO THE AISC SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS. ALL INDIVIDUAL STRUCTURAL MEMBERS AND ASSEMBLED PANELS OF COLD-FORMED STEEL CONSTRUCTION, OF CORROSIVE RESISTANT STEEL OR OF STEEL HAVING CORROSION RESISTANT METALLIC OR OTHER APPROVED COATING, SHALL BE PROTECTED AGAINST CORROSION WITH AN ACCEPTABLE SHOP COAT OF PAINT, ENAMEL, OR OTHER APPROVED PROTECTION.

D. DETAILS OF DESIGN, WORKMANSHIP AND TECHNIQUE FOR WELDING, INSPECTION OF WELDING, AND QUALIFICATION OF WELDING OPERATORS SHALL CONFORM TO THE AWS STRUCTURAL WELDING CODE, AND THE AISC SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.

E. THE BUILDING MANUFACTURER WILL FURNISH COMPLETE CONSTRUCTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLY OF ALL BUILDING PARTS. THESE DRAWINGS WILL SHOW ANCHOR BOLT DETAILS AND SETTINGS, TRANSVERSE CROSS-SECTIONS, SIDE-WALLS, ENDWALLS, FACIAS, SOFFITS, ROOF FRAMING, BRACING, SHEETING, FLASHING DETAILS, GUTTERS AND DOWNSPOUTS AND ACCESSORY INSTALLATION DETAILS. NO OPENINGS OR HOLES THROUGH THE METAL ROOF WILL BE ACCEPTED BY THE OWNER. THESE DRAWINGS AND ALL DESIGN WORK SHALL BE PERFORMED BY A FLORIDA PROFESSIONAL ENGINEER WHO UNDERTAKES THE WORK OF A "SPECIALTY ENGINEER" AND SHALL ALSO PERFORM THE FOLLOWING SERVICES:

1. PREPARE, SEAL, SIGN AND DATE AND SUBMIT FOUR (4) COMPLETE SETS OF BUILDING PLANS WITH THE COLUMN REACTIONS TO BE SUPPORTED BY THE FOUNDATION FLOOR SLAB AND THE ANCHOR BOLT SETTING PLAN AND SLAB EDGE DETAILS TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE FABRICATION.
2. CONTRACTOR IS TO OBTAIN PERMIT FROM APPLICABLE AGENCIES.
3. PREPARE, SEAL, SIGN AND DATE AND SUBMIT TO THE PROJECT ENGINEER SIX (6) SETS OF THE COMPLETED BUILDING PLANS TO THE BUILDING DEPARTMENT FOR REVIEW AND FILING.

F. THE REINFORCED CONCRETE BUILDING FLOOR SLAB FOUNDATION AND ALL ANCHOR BOLTS SHALL BE FURNISHED AND CONSTRUCTED BY THE GENERAL CONTRACTOR. ALL COLUMN BASE PLATES WILL BE ERECTED ON ANCHOR BOLTS WITH DOUBLE NUTS ON 1 1/2" GROUT.

G. THE ERECTION OF THE METAL BUILDING AND THE INSTALLATION OF ACCESSORIES SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING MANUFACTURER'S CONSTRUCTION DRAWINGS BY A QUALIFIED ERECTOR USING PROPER TOOLS AND EQUIPMENT IN ACCORDANCE WITH THE STANDARDS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS. THERE SHALL BE NO FIELD MODIFICATIONS TO PRIMARY STRUCTURAL MEMBERS EXCEPT AS AUTHORIZED IN WRITING.

H. STRUCTURAL CONNECTION OF SAW-TOOTH ROOF TO BE SUPPLIED BY METAL BUILDING MANUFACTURER FOR ENGINEER'S REVIEW.

DAVID W. SPRINGSTEAD P.E. CERTIFICATE FLORIDA

REV. BY:	DESCRIPTION:	DATE:	DRAWN:
DWS	ADD INFORMATION PER DEP RAI	10/24/97	DWS

CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT: COMPOST FINISHING BUILDING

DRAWING: ELEVATIONS

5 of 7

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(352) 787-1414

SCALE:	FILE:	DATE:
1/8"=1'	ELEV	3/21/97
DESIGN:	DRAWN:	CHECKED:
DWS	JJ	DWS

DRAWING: COMPOST FINISHING BUILDING ELEVATIONS

CLIENT: SCBCC

JOB NO.:	SHEET: 5
921100.005	OF: 7

D.E.P. OCT 2 ...

OCT 24 1997

5

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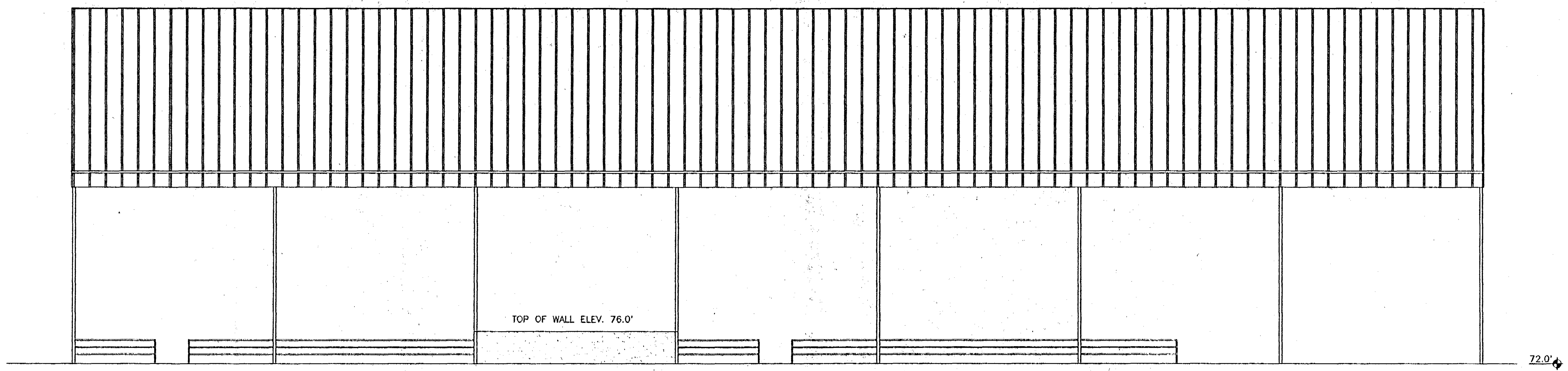
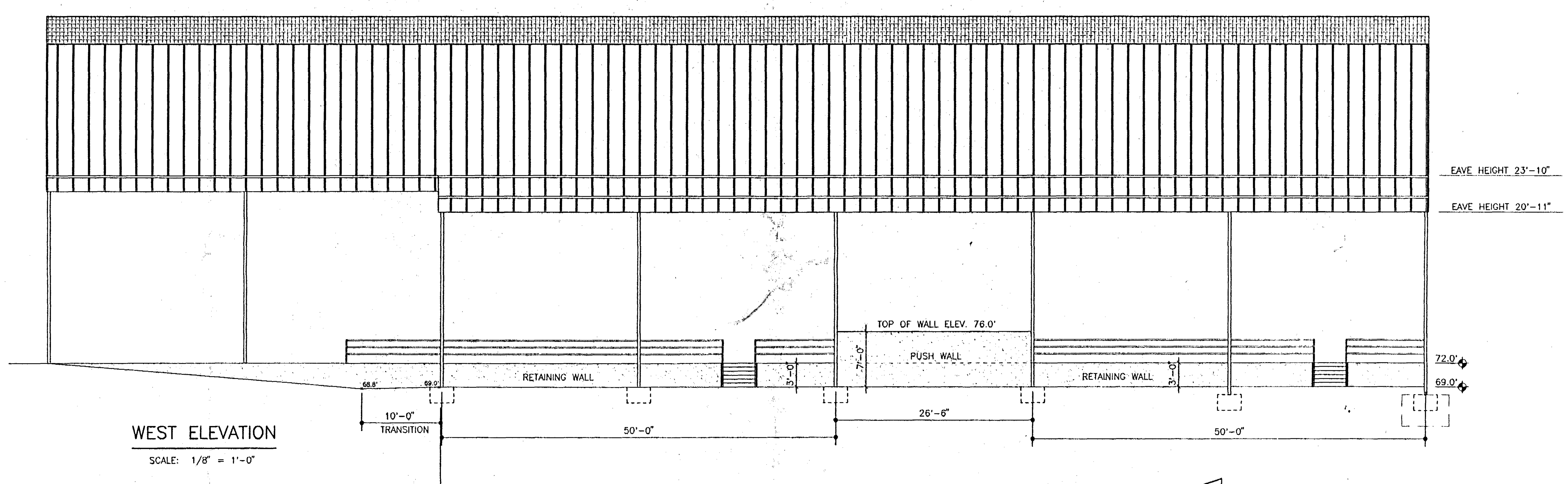


EAST ELEVATION

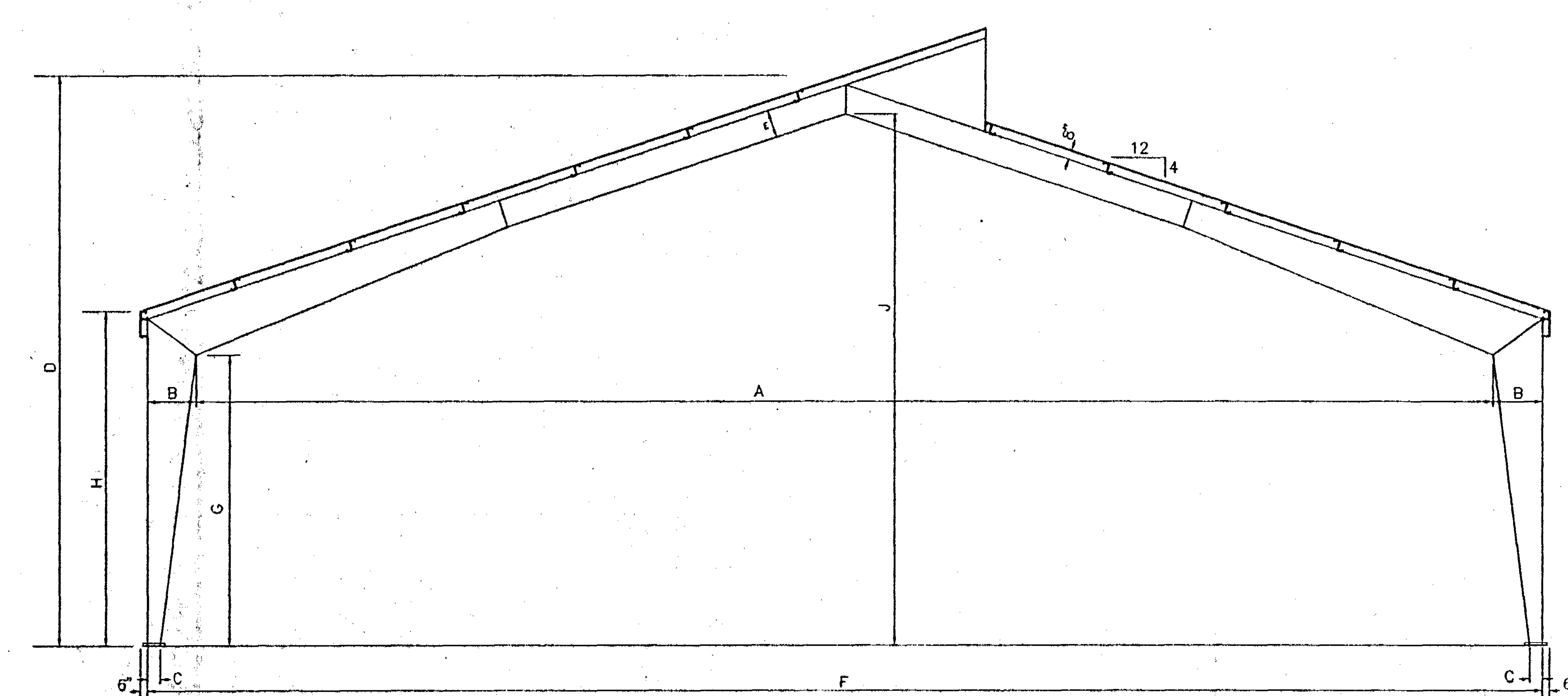
SCALE: 1/8" = 1'-0"



WEST ELEVATION

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

NOTE:
NO METAL BUILDING SIDING WILL BE CONSTRUCTED ON THE BUILDING



RIGID FRAME DIMENSIONS										
WIDTH	EAVE	DIMENSIONS (all figures rounded off to nearest 1/8")								
W	H	A	B	C	D	E	F	G	J	
100'-0"	23'-10"	91'-10"	3'-7"	11"	40'-6"	1'-9 3/8"	99'-0"	20'-8 5/8"	37'-10 3/4"	

REV. BY:	DESCRIPTION:	DATE:	DRAWN
DWS	ADD INFORMATION PER DEP RAI	10/24/97	DWS
RMC	REVISED DECLINE OF TRUCK APPROACH	08/07/97	X

CLIENT:
SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT:
COMPOST FINISHING BUILDING

DRAWING:
ELEVATIONS

6 of 7

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SCALE:	FILE:	DATE:
1/8" = 1'	ELEV	3/21/97
DESIGN:	DRAWN:	CHECKED:
DWS	X	DWS

DRAWING:
COMPOST FINISHING BUILDING
ELEVATIONS

CLIENT:
SCBCC

JOB NO.:	SHEET: 6
921100.005	OF: 7

D.E.P.
OCT 27 1997
TAMPA

OCT 24 1997

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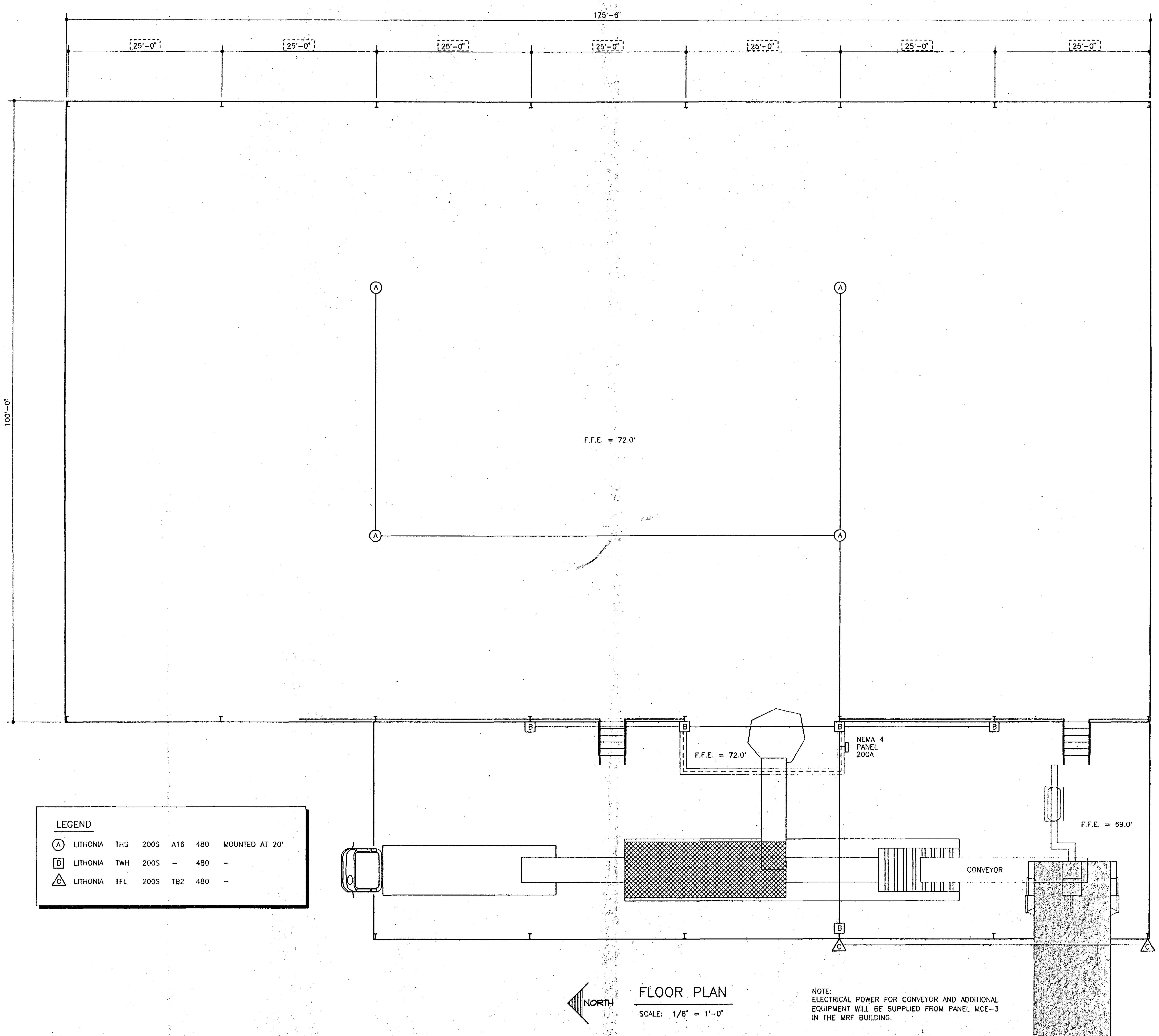
(7)



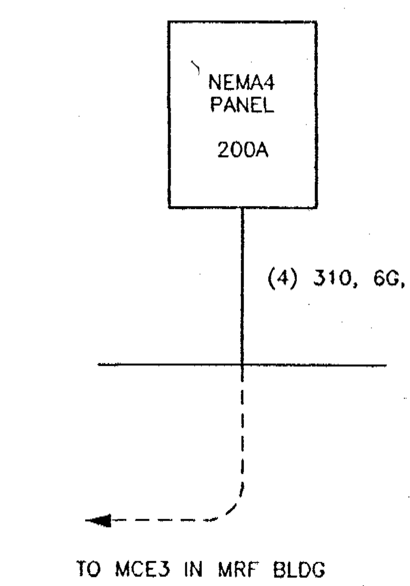
FLOOR PLAN

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

LEGEND

(A)	LITHONIA	THS	200S	A16	480	MOUNTED AT 20'
[B]	LITHONIA	TWH	200S	–	480	–
(C)	LITHONIA	TFL	200S	TB2	480	–

NOTE:
ELECTRICAL POWER FOR CONVEYOR AND ADDITIONAL EQUIPMENT WILL BE SUPPLIED FROM PANEL MCE-3 IN THE MRF BUILDING.



ELECTRICAL RISER DIAGRAM

NTS

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OCT 27 1997
SOUTHWEST DISTRICT
TAMPA

REV.	BY:	DESCRIPTION	DATE:	DRAWN
	DWS	ADD INFORMATION PER DEP RAI	10/24/97	DWS

CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS

PROJECT: COMPOST FINISHING BUILDING

DRAWING: ELECTRICAL PLAN

7 of 7

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SCALE:	FILE:	DATE:
1/8" = 1'	ELEC	3/21/97
DESIGN:	DRAWN:	CHECKED:

DRAWING: COMPOST FINISHING BUILDING ELECTRICAL PLAN

CLIENT: SCBCC

JOB NO.: 921100.005

SHEET: 7 OF: 7

OCT 24 1997

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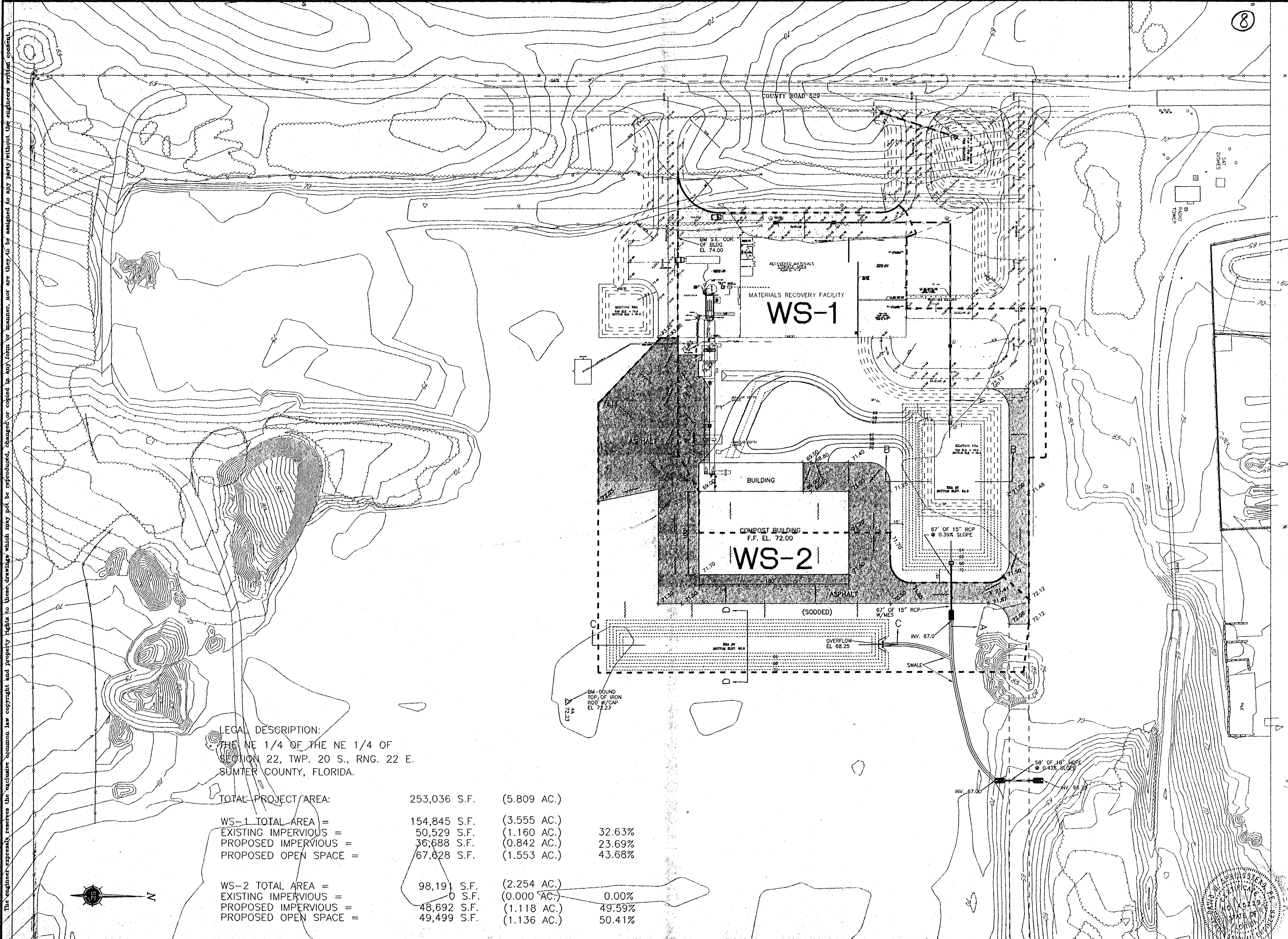

LEGAL DESCRIPTION:
THE NE 1/4 OF THE NE 1/4 OF
SECTION 22, TWP. 20 S., RNG. 22 E.
SUMTER COUNTY, FLORIDA.

TOTAL PROJECT AREA:	253,036 S.F.	(5.809 AC.)	
WS-1 TOTAL AREA =	154,845 S.F.	(3.555 AC.)	
EXISTING IMPERVIOUS =	50,529 S.F.	(1.160 AC.)	32.63%
PROPOSED IMPERVIOUS =	36,688 S.F.	(0.842 AC.)	23.69%
PROPOSED OPEN SPACE =	67,628 S.F.	(1.553 AC.)	43.68%
WS-2 TOTAL AREA =	98,191 S.F.	(2.254 AC.)	
EXISTING IMPERVIOUS =	0 S.F.	(0.000 AC.)	0.00%
PROPOSED IMPERVIOUS =	48,692 S.F.	(1.118 AC.)	49.59%
PROPOSED OPEN SPACE =	49,499 S.F.	(1.136 AC.)	50.41%

(8)

CLIENT: SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS
PROJECT: COMPOST FINISHING BUILDING
DRAWING: SITE PLAN
2 of 3

REV. BY: | DESCRIPTION | DATE: | DRAWN:

Springstead Engineering, inc.

D.E.P.
OCT 27 1997
SOUTHWEST DISTRICT TAMPA

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Leesburg, Fl. 34748
(352) 787-1414

SCALE:	FILE:	DATE:
1"=50'	SOUTH40	7/97
DESIGN:	DRAWN:	CHECKED:

DRAWING: COMPOST FINISHING BUILDING SITE PLAN
CLIENT: SCBCC
JOB NO.: 92-1100.000
SHEET: 2 OF: 3

OCT 24 1997