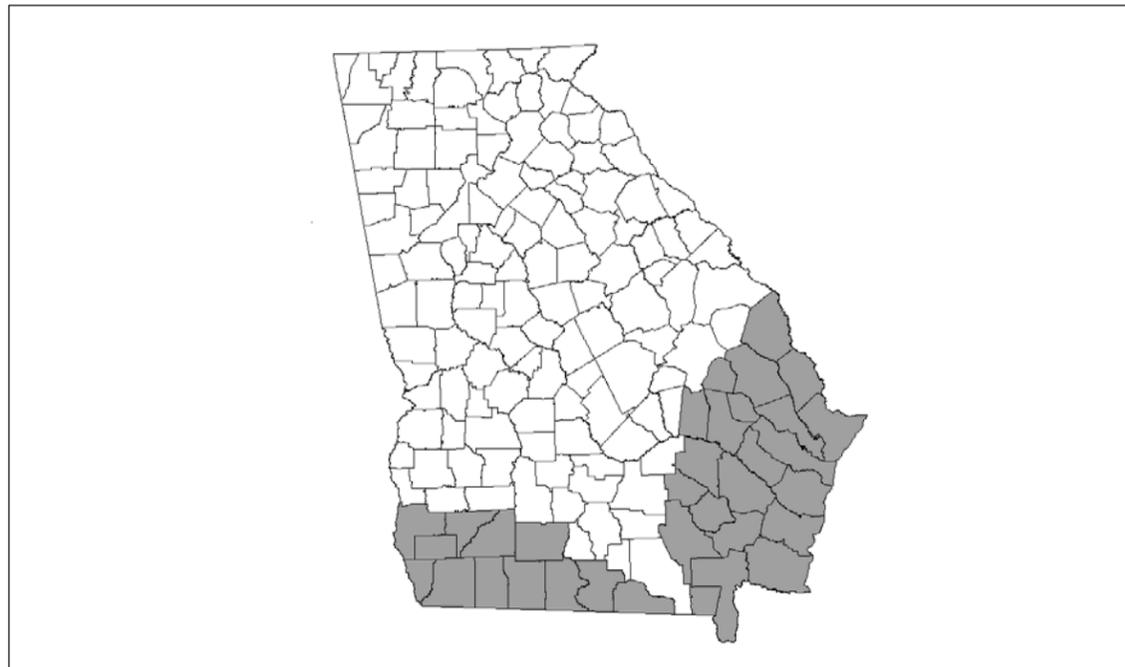


**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

**GEORGIA STANDARD DRAWINGS - 20' WIDE, DEEP BIN, STAND
ALONE COMPOST FACILITY CONSTRUCTED WITH 6" X 6" POSTS**

1. THE FOLLOWING DRAWINGS WERE PREPARED IN ACCORDANCE WITH PRACTICE CODE 317--COMPOSTING FACILITY AND GEORGIA BUILDING CODE (INTERNATIONAL BUILDING CODE 2006)
2. DESIGN DATA REQUIRED BY IBC 2006:
 - A) ROOF LIVE LOAD - 20 PSF.
 - B) BASIC WIND SPEED OF 90 MPH AND GROUND SNOW LOAD OF 10 PSF OR BASIC WIND SPEED OF 100 MPH AND NO SNOW LOAD.
 - C) IMPORTANCE FACTOR, I=0.87
 - D) WIND EXPOSURE CATEGORY C.
 - E) INTERNAL PRESSURE COEFFICIENT = 0.55
3. THIS DESIGN IS NOT INTENDED FOR USE IN EXTREME SOUTH AND EAST COUNTIES OF THE STATE THAT ARE SUBJECT TO HURRICANE WIND LOADS (SEE MAP BELOW)
4. THIS DESIGN IS NOT INTENDED FOR CONSTRUCTION ON AN ISOLATED HILL, RIDGE, OR ESCARPMENT IN ANY REGION OF THE STATE.
5. ANY CHANGES TO THESE DRAWINGS MUST BE APPROVED BY AN ENGINEER WITH JOB APPROVAL LEVEL IV OR GREATER.
6. NO ADDITIONS SHOULD BE MADE TO STRUCTURE WITHOUT APPROVAL FROM NRCS.



THIS DESIGN IS NOT INTENDED FOR USE IN COUNTIES SUBJECT TO HURRICANE WIND LOADS SHADED GRAY ABOVE.

_____ **COMPOST FACILITY**

_____ **COUNTY, GEORGIA**

CERTIFICATION:

THE _____ COMPOST FACILITY WILL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND PRACTICE CODE 317. ALL CHANGES HAVE BEEN APPROVED BY AN ENGINEER WITH JOB APPROVAL AUTHORITY LEVEL IV OR GREATER. ALL ADDITIONS HAVE BEEN APPROVED BY NRCS.

_____	_____	_____	_____	_____	_____
OWNER	DATE	NRCS REPRESENTATIVE	DATE	ENGINEER (IF REQUIRED)	DATE

INDEX TO DRAWINGS:

- SHEET 1 - COVER SHEET
- SHEET 2 - PLAN VIEW
ELEVATION VIEW
FRONT VIEW
GENERAL NOTES
- SHEET 3 - ROOF FRAMING PLAN
- SHEET 4 - GIRDER AND RAFTER TO POST CONNECTIONS
HURRICANE STRAP
HURRICANE CLIP
- SHEET 5 - WOOD TREATMENT TABLE
FIBER REINFORCED CONTRACTION JOINT
CONCRETE POST FOOTING DETAIL
MECHANICAL ANCHOR POST CONCRETE FOOTING DETAIL

Designed W. Brown Date 07/07
 Drawn S. Rogers Date 07/07
 Checked H. McFarland
J. Holloway Date 07/07
 Approved _____

GEORGIA COMPOSTING FACILITY
 (Stand Alone Structure with Deep Bins)

County, GA



File No.
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Drawing No.
Cover

REVISIONS		
DATE	APPROVED	TITLE
09/05	H. MCFARLAND	STATE ENGINEER
01/06	H. MCFARLAND	STATE ENGINEER
07/07	H. MCFARLAND	STATE ENGINEER

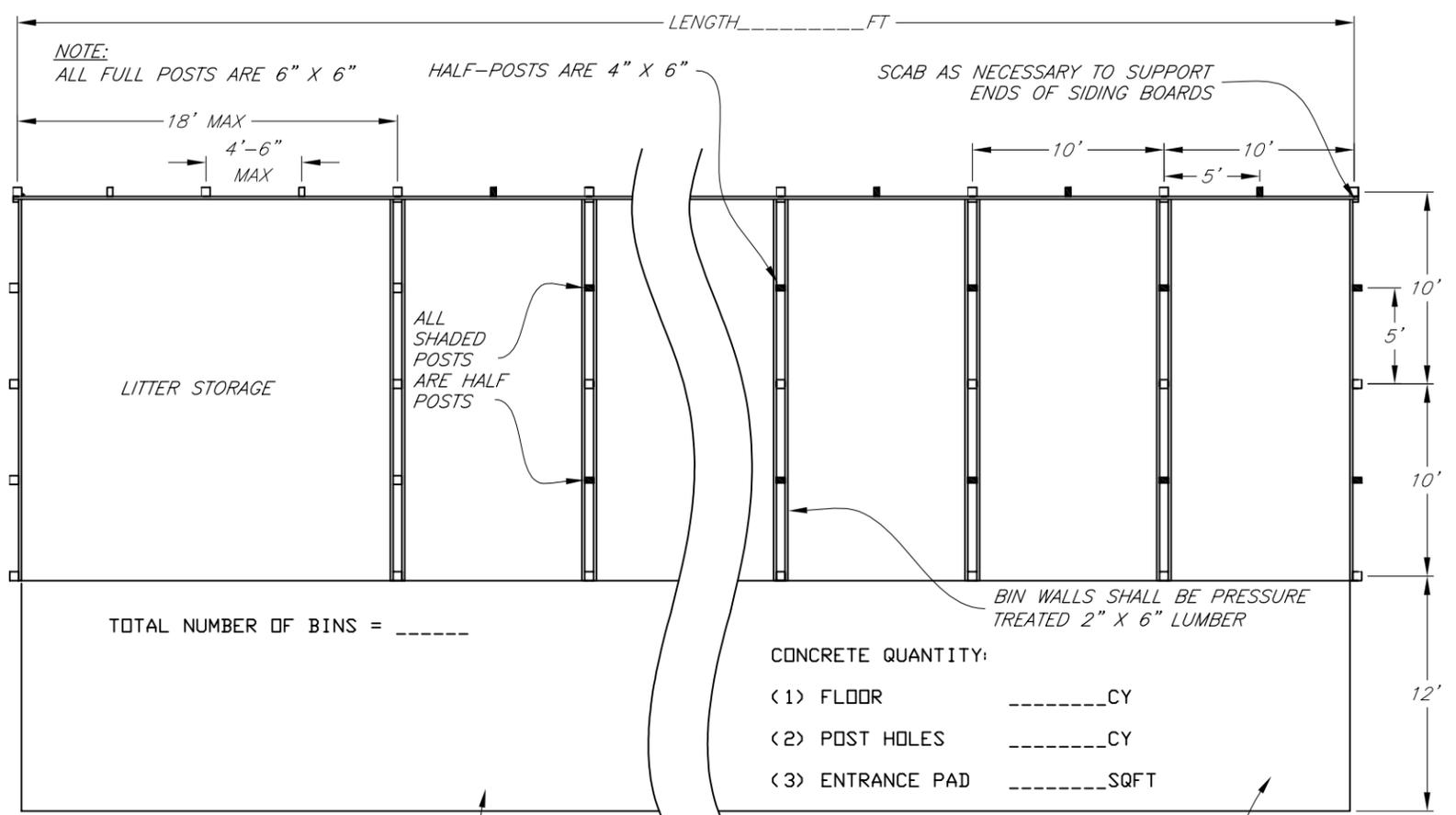
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Sheet 1 of 5

Date 07/07
 Designed W. Brown
 Drawn S. Rogers
 Checked H. McFarland
 J. Holloway
 Approved

GEORGIA COMPOSTING FACILITY
 (Stand Alone Structure with Deep Bins)



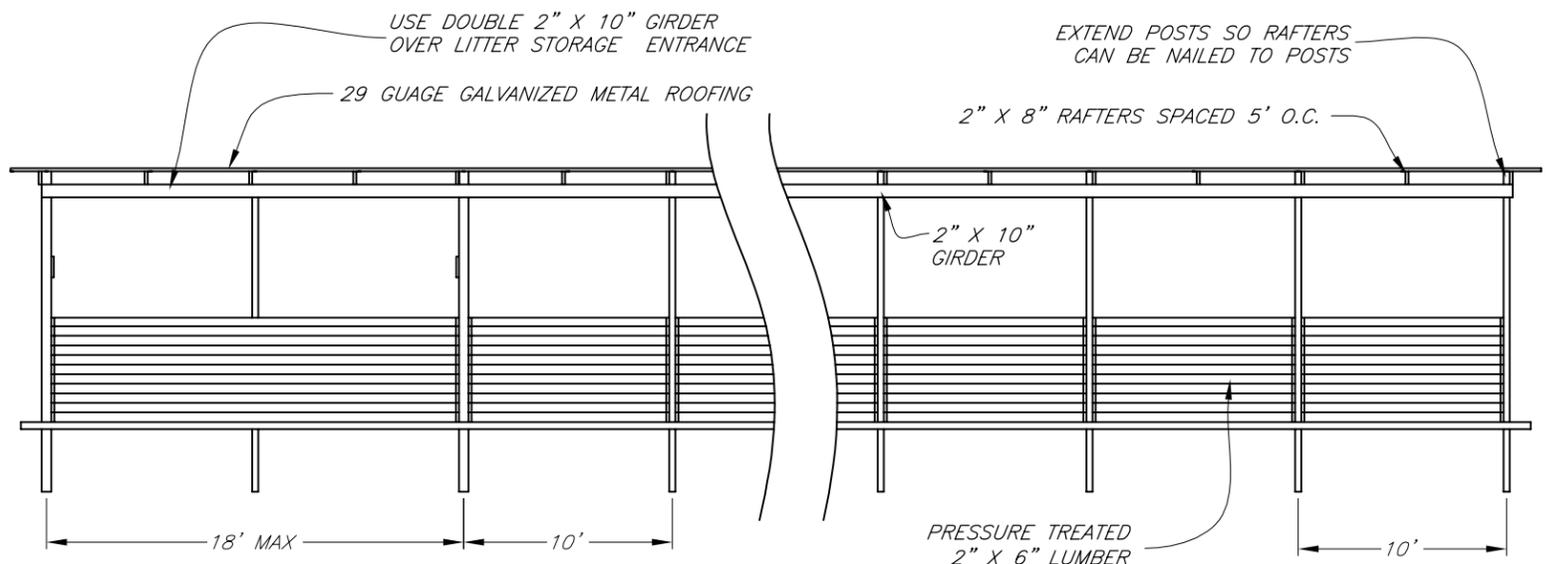
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 Sheet 2 of 5



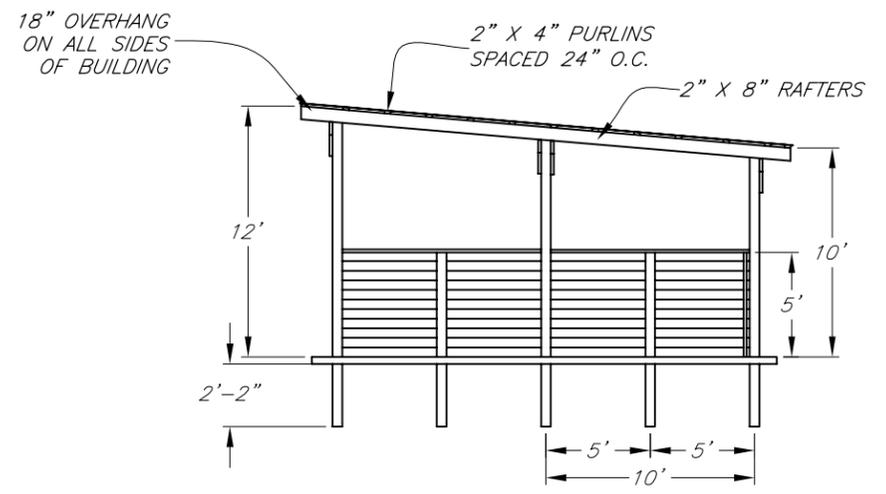
NOTES:

1. ALL ENTRANCE AREAS SHALL BE STABILIZED USING PRACTICE STANDARD 561 - HEAVY USE AREA.
2. ALL POSTS SHALL BE SET IN CONCRETE WITH CONCRETE OR GRAVEL FOOTING PAD (SEE CONCRETE POST FOOTING DETAIL ON SHEET 5).
3. THE BUILDING SITE SHALL BE CLEARED AND GRUBBED AS REQUIRED. PROPER DRAINAGE SHALL BE PROVIDED AROUND THE ENTIRE BUILDING SO THAT RUNOFF WATER DOES NOT ENTER OR POND NEAR BUILDING. DESIGN FOR ROOF RUNOFF IN ACCORDANCE WITH PRACTICE CODE 558 - ROOF RUNOFF MANAGEMENT OR STABILIZE SOIL AROUND BUILDING USING PRACTICE CODE 342 - CRITICAL AREA PLANTING.
4. CONCRETE FLOORS AND FOOTINGS SHALL BE PLACED ON FIRM SOIL. ALL LOOSE SOIL SHALL BE REMOVED. IF FILL MATERIAL IS USED, PLACE IN 9" THICK LAYERS AND COMPACT WITH SHEEPSFOOT ROLLER OR OTHER EQUIVALENT COMPACTION METHOD.
5. ALL LUMBER, INCLUDING THE POSTS, IN CONTACT WITH LITTER, COMPOST, OR CONCRETE SHALL BE PRESSURE TREATED (SEE WOOD TREATMENT TABLE ON SHEET 5).
6. ALL DIMENSION LUMBER SHALL BE SOUTHERN PINE NO. 2 OR BETTER.
7. ALL NAILS, BOLTS AND OTHER CONNECTORS SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER. NAILS SHALL HAVE SPIRALED OR RINGED (ANNULAR) SHANKS. ALL REFERENCES TO "GALVANIZED" IN THIS SET OF DRAWINGS REFERS TO THE ABOVE LISTED COATINGS.
8. ROOFING SHALL BE 29 GAUGE GALVANIZED METAL. SEALANT SHALL BE APPLIED TO ALL LAPS.
9. ON SITE WATER SOURCE IS NECESSARY TO MAINTAIN MOISTURE CONTENT OF COMPOST.
10. CALL BEFORE YOU DIG: 1-800-282-7411 OR 770-623-4344.

PLAN VIEW

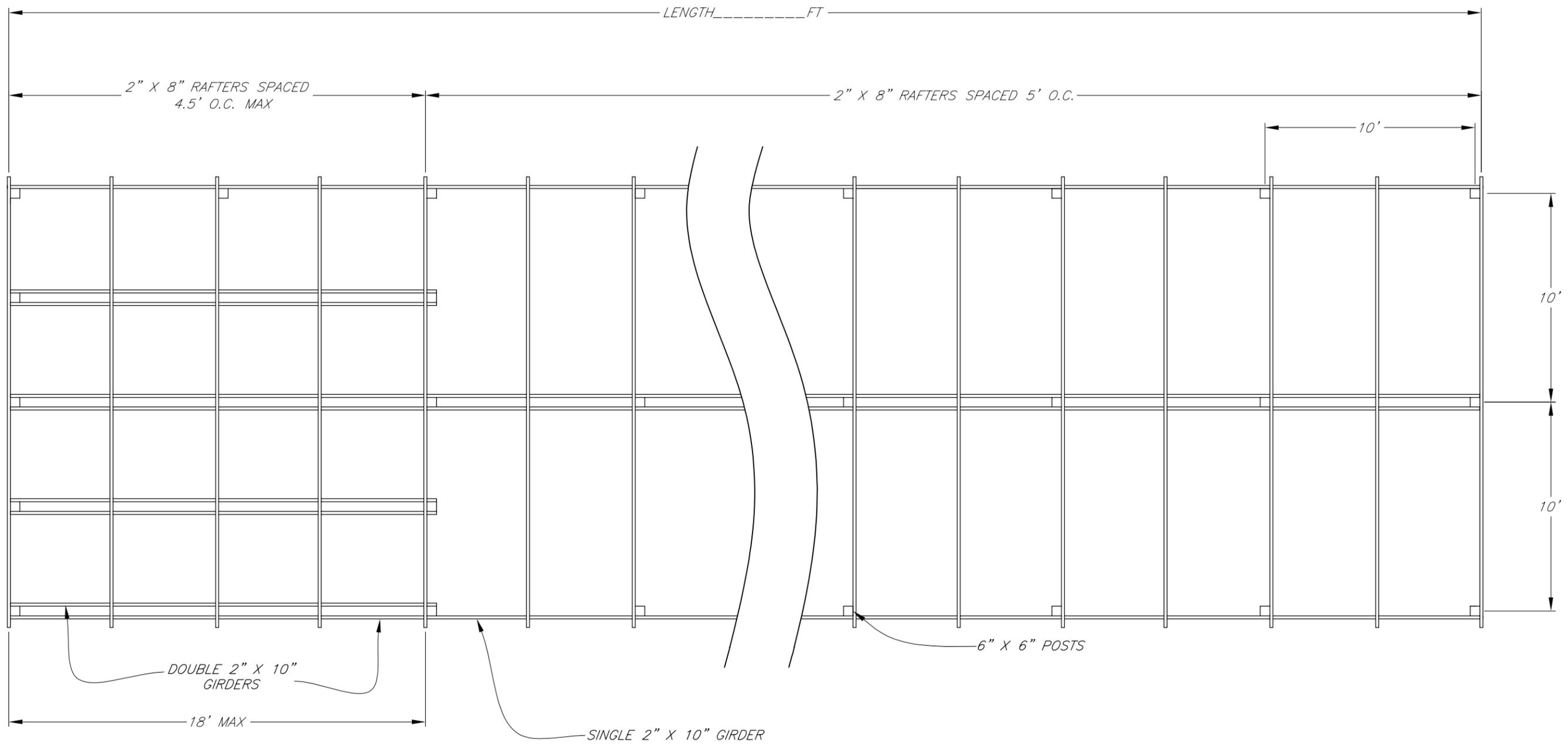


FRONT VIEW



ELEVATION VIEW

REVISIONS		
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01/06	H. MCFARLAND	STATE ENGINEER
07/07	H. MCFARLAND	STATE ENGINEER



ROOF FRAMING PLAN

Date 07/07
 Designed W. Brown
 Drawn S. Rogers
H. McFarland
 Checked J. Holloway
 Approved 07/07

GEORGIA COMPOSTING FACILITY
 (Stand Alone Structure with Deep Bins)

County, GA

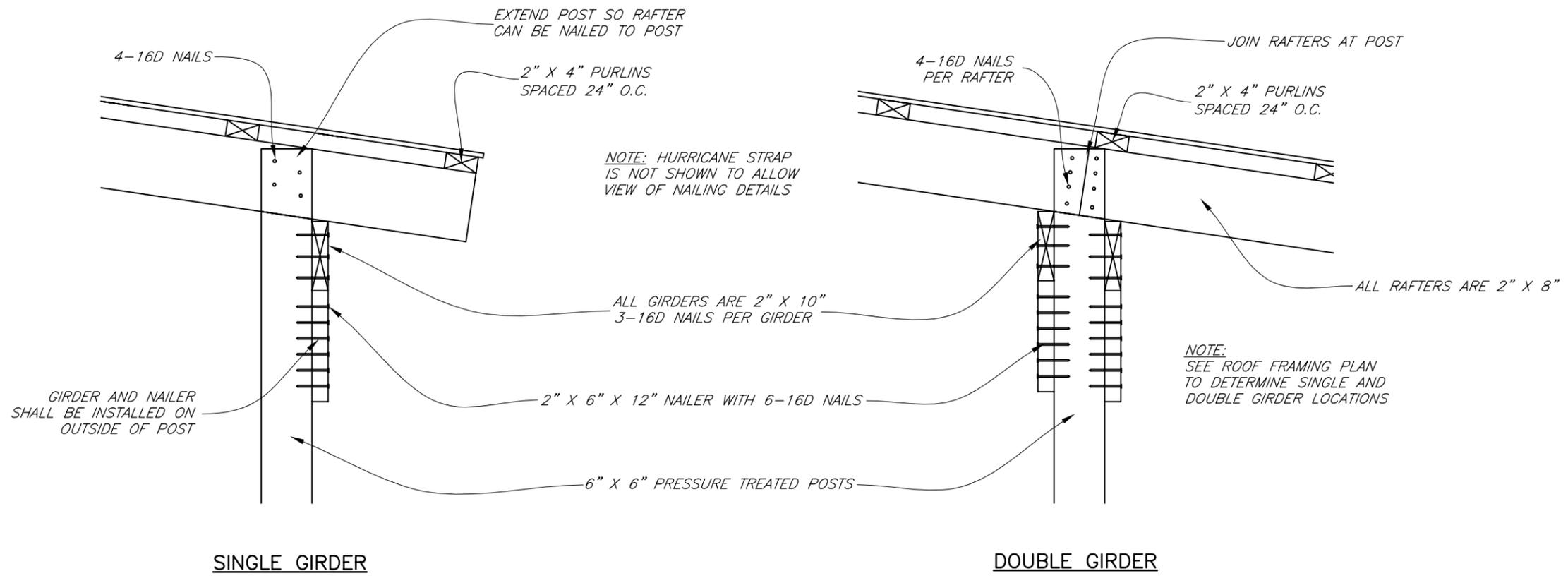


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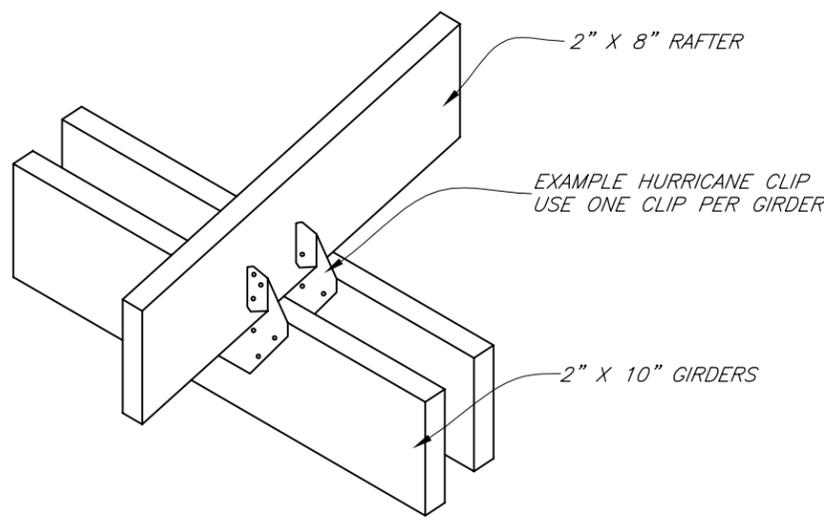
Drawing No.
 Roof Plan

REVISIONS		
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01/06	H. MCFARLAND	STATE ENGINEER
07/07	H. MCFARLAND	STATE ENGINEER

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 Sheet 3 of 5

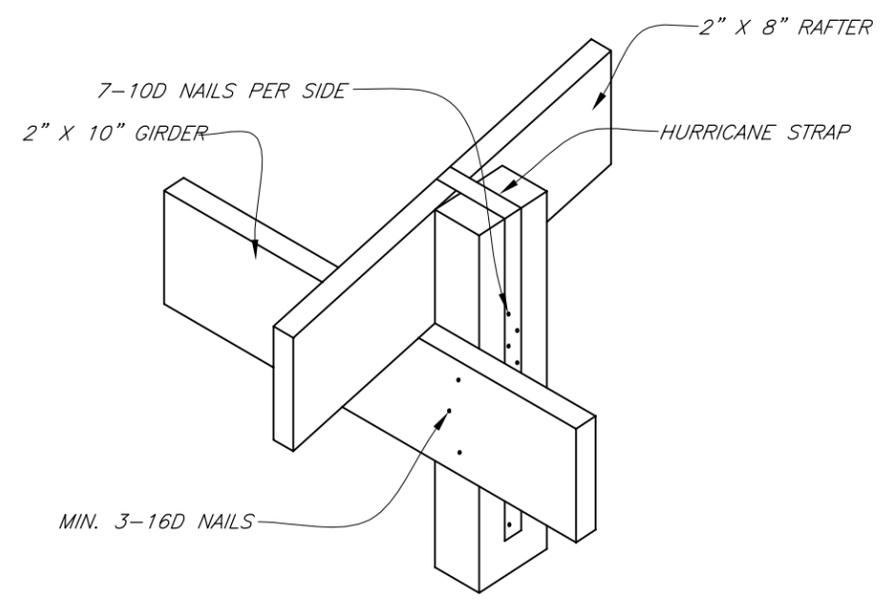


GIRDER AND RAFTER TO POST CONNECTIONS



HURRICANE CLIP
(USE AT RAFTER TO GIRDER CONNECTIONS WITHOUT POSTS)

- NOTES:**
1. MINIMUM UPLIFT RESISTANCE FOR HURRICANE STRAP IS 746 LBS.
 2. STRAP SHALL BE 2" OR WIDER. CENTER STRAP ON RAFTER TO RAFTER BUTT JOINTS ON CENTER POSTS.
 3. USE MANUFACTURED HURRICANE CLIP FOR RAFTER TO GIRDER CONNECTIONS (WITHOUT POSTS). MINIMUM UPLIFT RESISTANCE IS 251 LBS PER CLIP. AN EXAMPLE IS SHOWN AT LEFT. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.



HURRICANE STRAP
(USE AT RAFTER TO GIRDER CONNECTIONS WITH POSTS)

Date	07/07
Designed	W. Brown
Drawn	S. Rogers
Checked	H. McFarland
Approved	J. Holloway

GEORGIA COMPOSTING FACILITY
(Stand Alone Structure with Deep Bins)

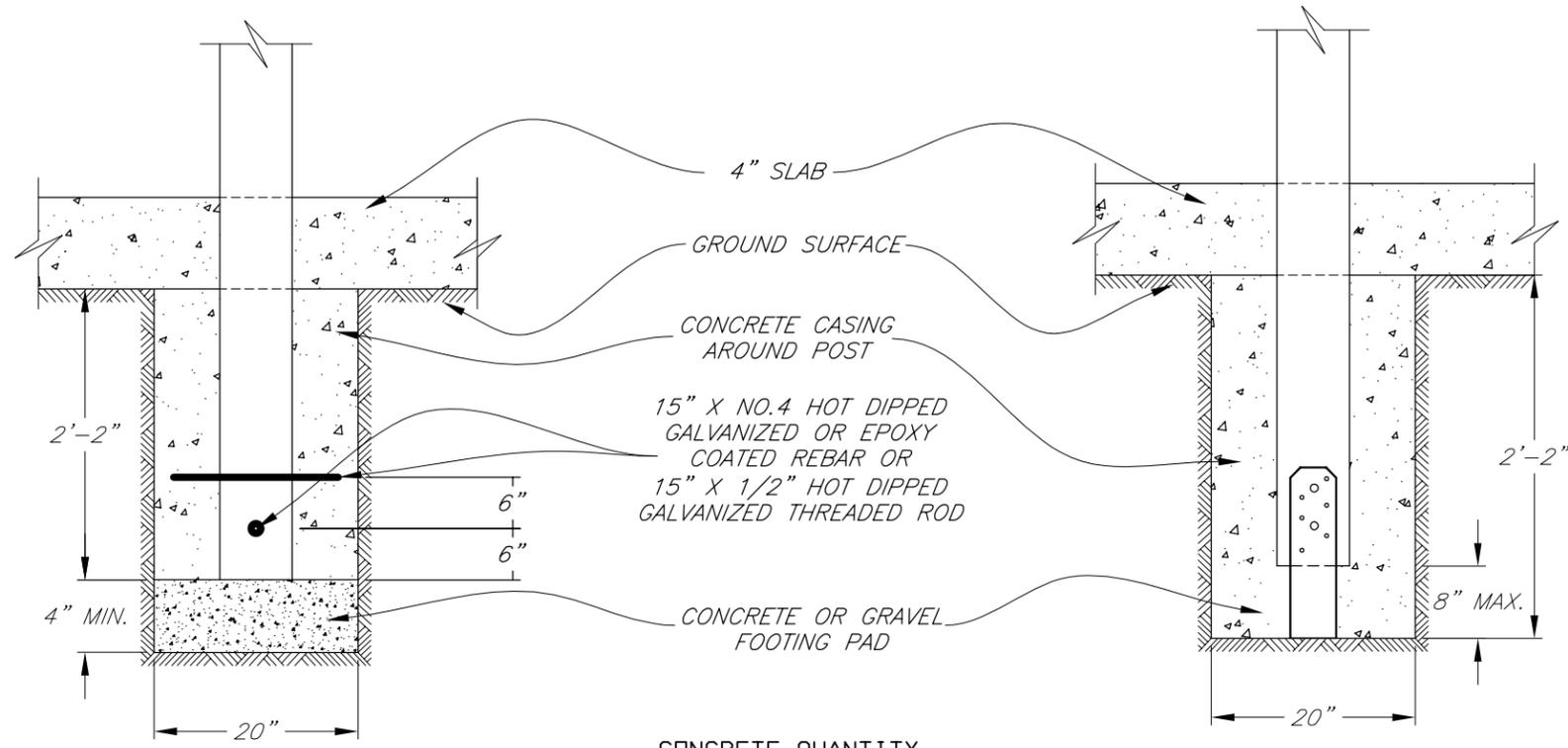
County, GA



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Drawing No.
Detail 1

REVISIONS		
DATE	APPROVED	TITLE
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07/07	H. MCFARLAND	STATE ENGINEER



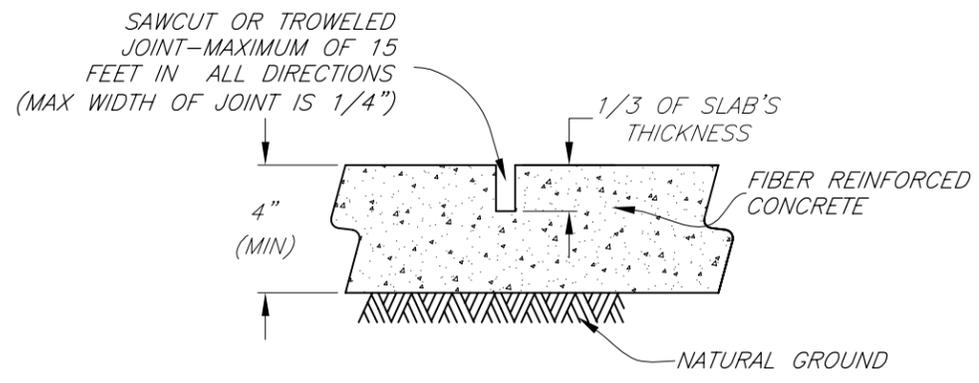
CONCRETE QUANTITY
PER POST HOLE: 0.19 C. Y.

CONCRETE POST FOOTING DETAIL

MECHANICAL POST ANCHOR
CONCRETE FOOTING DETAIL

NOTES:

1. EXAMPLE CONNECTOR SHOWN AT LEFT.
2. MINIMUM UPLIFT RESISTANCE REQUIRED IS 1574 LBS.
3. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
4. CONNECTOR SHALL BE GALVANIZED.
5. REBAR OR MECHANICAL POST ANCHOR REQUIRED FOR FULL POSTS ONLY.
6. MECHANICAL POST ANCHOR MAY BE USED INSTEAD OF REBAR.



FIBER REINFORCED CONTRACTION JOINT

MINIMUM RETENTION RATES IN PCF				
USE	CCA	ACQ	CBA-A	CA-B
GROUND CONTACT OR FRESH WATER	0.40	0.40	0.41	0.21
IMPORTANT STRUCTURAL MEMBERS	0.60	0.60	0.61	0.31

CCA - CHROMATED COPPER ARSENATE
ACQ - ALKALINE COPPER QUATERNARY
CBA-A & CBA-B - COPPER AZOLE

WOOD TREATMENT TABLE

REVISIONS		
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09/05	H. MCFARLAND	STATE ENGINEER
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Approved J. Holloway Date 07/07

GEORGIA COMPOSTING FACILITY
(Stand Alone Structure with Deep Bins)



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Drawing No.
Detail 2

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Sheet 5 of 5