

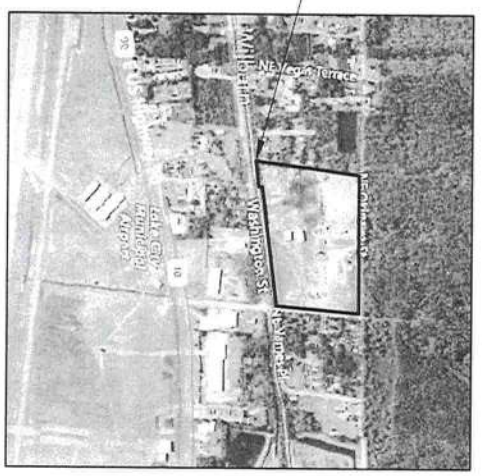
63

ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA



*Site Project Plan
Includes Kiln
and
Treating Facility*

*Final Treating Facility plans not
complete so not included.*



PLANS PREPARED FOR:
ROBBINS MANUFACTURING COMPANY
P.O. BOX 17939, TAMPA, FL, 33682

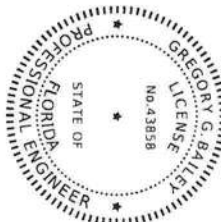
SHEET INDEX

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REVISIONS		DATE	DESCRIPTION
NO.	DESCRIPTION		
05/2023	SRWMD RAI # 2 SUBMITTAL NOT FOR CONSTRUCTION		

	NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH: 386-732-4675 LIC NO. LB8936	JOB NUMBER: L228531ROB ENGINEER G. BAILEY P.E. NO. 43958	SHEET NO. C-1
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COVER SHEET



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY GREGORY G. BAILEY ON THE DATE ADJACENT TO THE SEAL.
DUPLICATED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND ARE VOID FOR LEGAL PURPOSES. ANY ALTERATION OF THIS DOCUMENT WILL BE EVIDENT BY THE DATE AND TIME OF THE SIGNATURE.

NORTH FLORIDA PROFESSIONAL SERVICES, INC.
P.O. BOX 3823
LAKE CITY, FL 32056
WWW.NFPS.NET
GREGORY G. BAILEY, P.E. NO. 43858

THE ABOVE SIGNED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G25-27.004, F.A.C.

SHEET INDEX

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REVISIONS		DATE	SHEET NO.	
DESCRIPTION				
 NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH. 386-752-4875 LIC. NO. LB8358 2551 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CAF 23011		JOB NUMBER: L220531R08 FOR: GREGORY G. BAILEY P.E. NO.: 43858	SIGNATURE SHEET ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA	C-2

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO ENSURE THAT ALL WORK WILL BE IN ACCORDANCE WITH THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND COLUMBIA COUNTY, FLORIDA OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH IN THE ISSUED SUBMITTEE WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT.
3. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER, ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.
4. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PREVIOUSLY REFERENCED. THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.
5. THE SITE IS LOCATED IN SECTION 35, TOWNSHIP 3 SOUTH, RANGE 12 EAST, COLUMBIA COUNTY, FLORIDA.
6. THE CONTRACTOR SHALL IMPLEMENT ALL COMPONENTS OF THE EROSION AND SEDIMENTATION CONTROL PLAN PRIOR TO ANY EARTH DISTURBING ACTIVITIES. ALL CORROSION SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL VEGETATION IS ACCEPTED OPERATION AND MAINTENANCE.
7. THE STORMWATER BASIN IS DESIGNED IN ACCORDANCE WITH SPREAD APPLICATION HANDBOOK VOLUME 11 AND 62-300 F.A.C.
8. ALL SLOPES OF THE STORMWATER BASIN SHALL BE GRASSED. ALL SLOPES STEEPER THAN 3:1 SHALL BE STAPLED SOD.
9. ALL DISTURBED AREAS NOT SODDED SHALL BE SEED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF WINTER WHEAT. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF BILET.
10. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN PLANS.
11. THE EXACT LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. ONLY THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT AREAS.
12. ALL SITE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLUMBIA COUNTY LAND DEVELOPMENT REGULATIONS.
13. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS WITHIN PROJECT AREA.
14. CONTRACTOR SHALL PROVIDE ACTUAL INVERT ELEVATIONS ON ALL DRAINAGE STRUCTURES. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED AT THE SAME ELEVATION AS THE EXISTING DRAINAGE STRUCTURES FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER BEFORE CONTINUING WORK.
15. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THE F.D.O.T. STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION), AS WELL AS SPECIFICATIONS, AND THE COLUMBIA COUNTY LAND DEVELOPMENT REGULATIONS UNLESS OTHERWISE NOTED.
16. IF UNSUITABLE MATERIAL IS ENCOUNTERED DURING GRADING, CONTRACTOR SHALL REMOVE UNSUITABLE MATERIAL TO A DEPTH OF 2" BELOW FINISHED GRADE WITHIN THE CONSTRUCTION LIMITS.
17. THE CONTRACTOR SHALL NOTIFY THE COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.

EROSION CONTROL NOTES

1. THIS EROSION AND SEDIMENTATION CONTROL PLAN COMPLIES WITH THE REQUIREMENTS OF THE "FLORIDA DEVELOPMENT MANUAL" AND THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
2. THE CONTRACTOR SHALL ADHERE TO COLUMBIA COUNTY, SPREAD AND OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACTOR NEEDS TO CHANGE THIS PLAN TO MORE EFFECTIVELY CONTROL EROSION AND SEDIMENTATION. THE CONTRACTOR SHALL USE BMPs FROM THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
3. THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.
4. SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL OF 0.5 INCHES OR GREATER, AND REPAIRED OR REPLACED AS NECESSARY.
6. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
7. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
8. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.
9. CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.
10. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
11. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
12. A PAD OR RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR QUARTZITE RIPRAP IS REQUIRED. NO BROKEN CONCRETE WILL BE ACCEPTED.
13. ALL SLOPE STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF SYNTHETIC BALES OR SODDING.
14. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN SEVEN DAYS.
15. ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.
16. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARS.
17. EXCESS DIRT SHALL BE REMOVED DAILY.
18. THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS. PERMIT REQUIRED FROM SPREAD HAS BEEN OBTAINED.
19. QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAINWALLS. STOCKPILES SHALL BE MAINTAINED AT LEAST ONE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5 INCHES OR GREATER.
20. SITES THAT HAVE BEEN FINALLY STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.

REVISIONS

DATE	DESCRIPTION	SHEET NO.
		C-3



NORTH FLORIDA PROFESSIONAL SERVICES, INC.
P.O. BOX 3823
LAKE CITY, FL 32056
PH 386-732-4675
LIC NO. 188356

2551 BLANSTONE PINES DR.
TALLAHASSEE, FL 32301
WWW.NFPS.NET
CAF 20011

JOB NUMBER:
2551BLANSTONE
FOR:
GREGORY G. BAILEY
P.E. NO. 43558

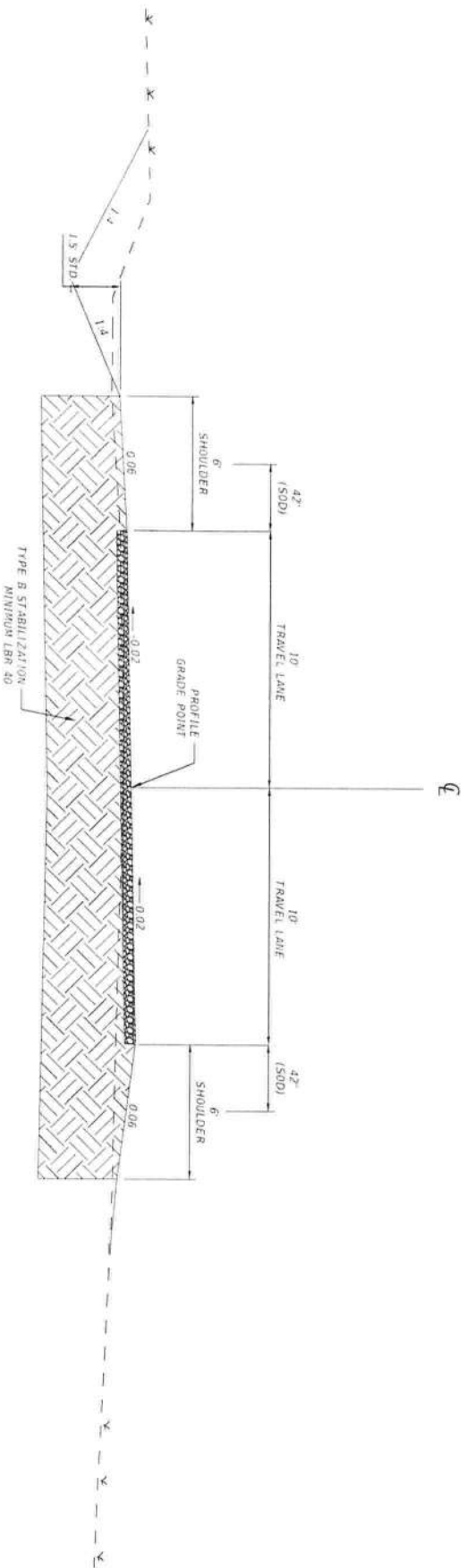
GENERAL & EROSION CONTROL NOTES

ROBBINS MANUFACTURING COMPANY
COLUMBIA COUNTY, FLORIDA

Scale: 1"=40'-0"

11/20/2017 10:42:45 AM

11/20/2017 10:42:45 AM



TYPICAL SECTION

N.T.S.

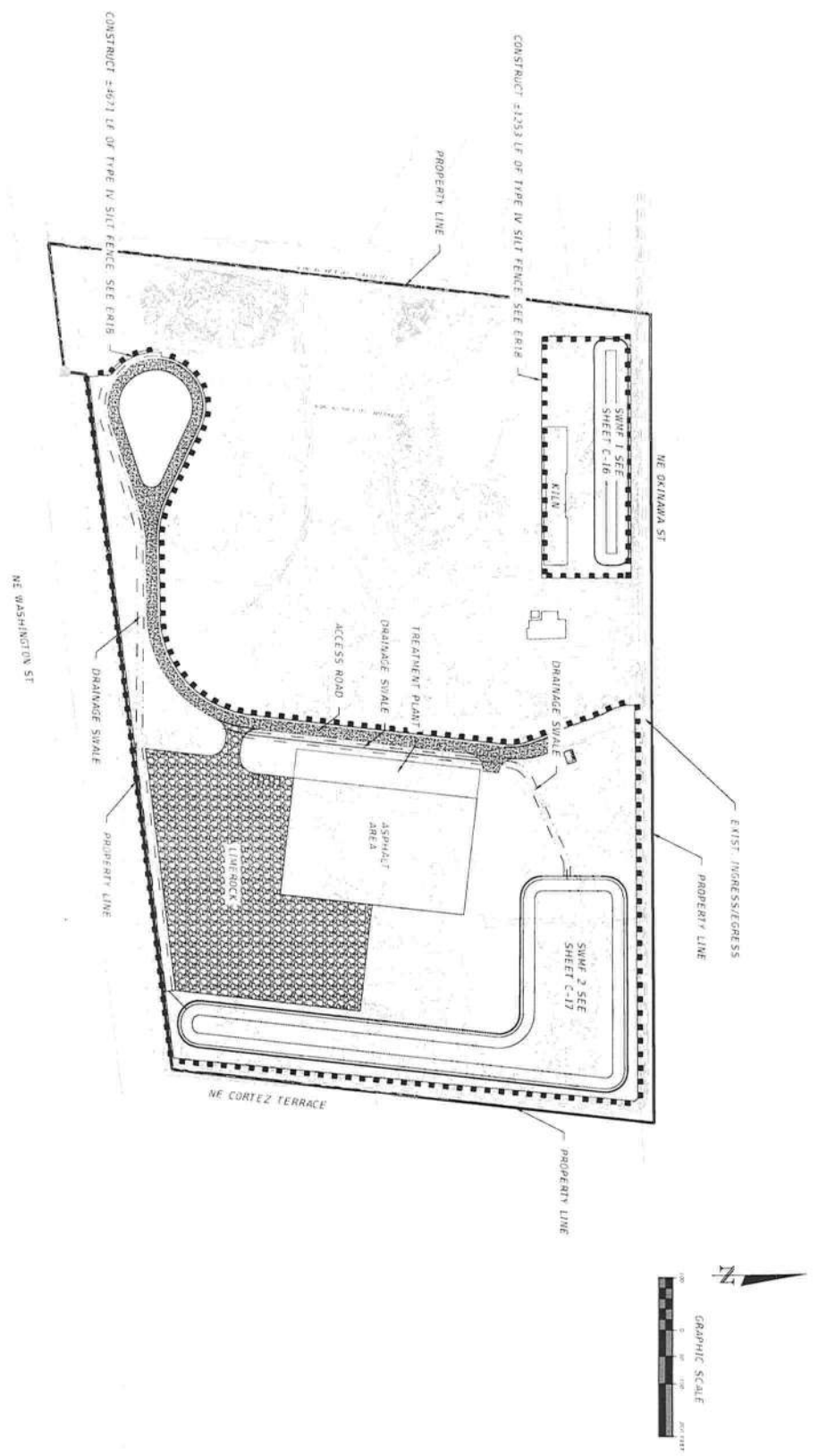
6" ASPHALT MILLINGS
12" STABILIZED SUBGRADE (MIN. LBR 40)

NOTES

1. FINISH THE STABILIZED SUBGRADE SURFACE ELEVATION AND CROSS SLOPE IN ACCORDANCE WITH THIS PAVEMENT DESIGN.

REVISIONS		DATE	SHEET NO.
DESCRIPTION			
NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH. 386-752-4675 LIC. NO. LB8335 2551 BLAINSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CAF 29011		JOB NUMBER: 122551NDB FOR: GREGORY G. BAILEY P.E. NO.: 43855	TYPICAL SECTION ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA
			C-4

REVISIONS		DATE	DESCRIPTION
 NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH. 386-752-4675 LIC NO. LB8356 2551 BLAINSTONE PINES DR TALLAHASSEE, FL 32301 WWW.NFPS.NET CAF 29011			
JOB NUMBER: L220531808		FOR: GREGORY G. BAILEY P.E. NO.: 43855	
EROSION CONTROL PLAN ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA			
SHEET NO.		C-7	



LF
SET TO
FLOW TO S.201

S-20
CONST PER INDEX NO. 423-001 TYPE P7
GRADE ELEV. 201.40
PIPE 4121 INV. 199.28
PIPE 4131 INV. 199.28

PIPE (13)
CONST. = 92 LF
B. P.V.C.

S-19
CONST. MES
DOT STD. PLANS
430-022
INV. 198.99

CONTRACTOR SHALL PROVIDE A MIN
OF 12" OF MATERIAL COVER OVER PIPE
CONST. SHALL BE
IF A2000 OR EQUIVALENT
S-2
CONST. MES
DOT STD. PLANS
430-022
INV. 198.12

TREATMENT PLANT
SEE SHEET C-12

ASPHALT AREA SEE SHEET C-12

REVISIONS		DATE	DESCRIPTION
NO.	DESCRIPTION		
1	ISSUED FOR PERMIT	01/15/2021	154079 (F)



NORTH FLORIDA PROFESSIONAL SERVICES, INC.
P.O. BOX 3823
LAKE CITY, FL 32056
PH: 386-752-4875
LIC NO. LB8356

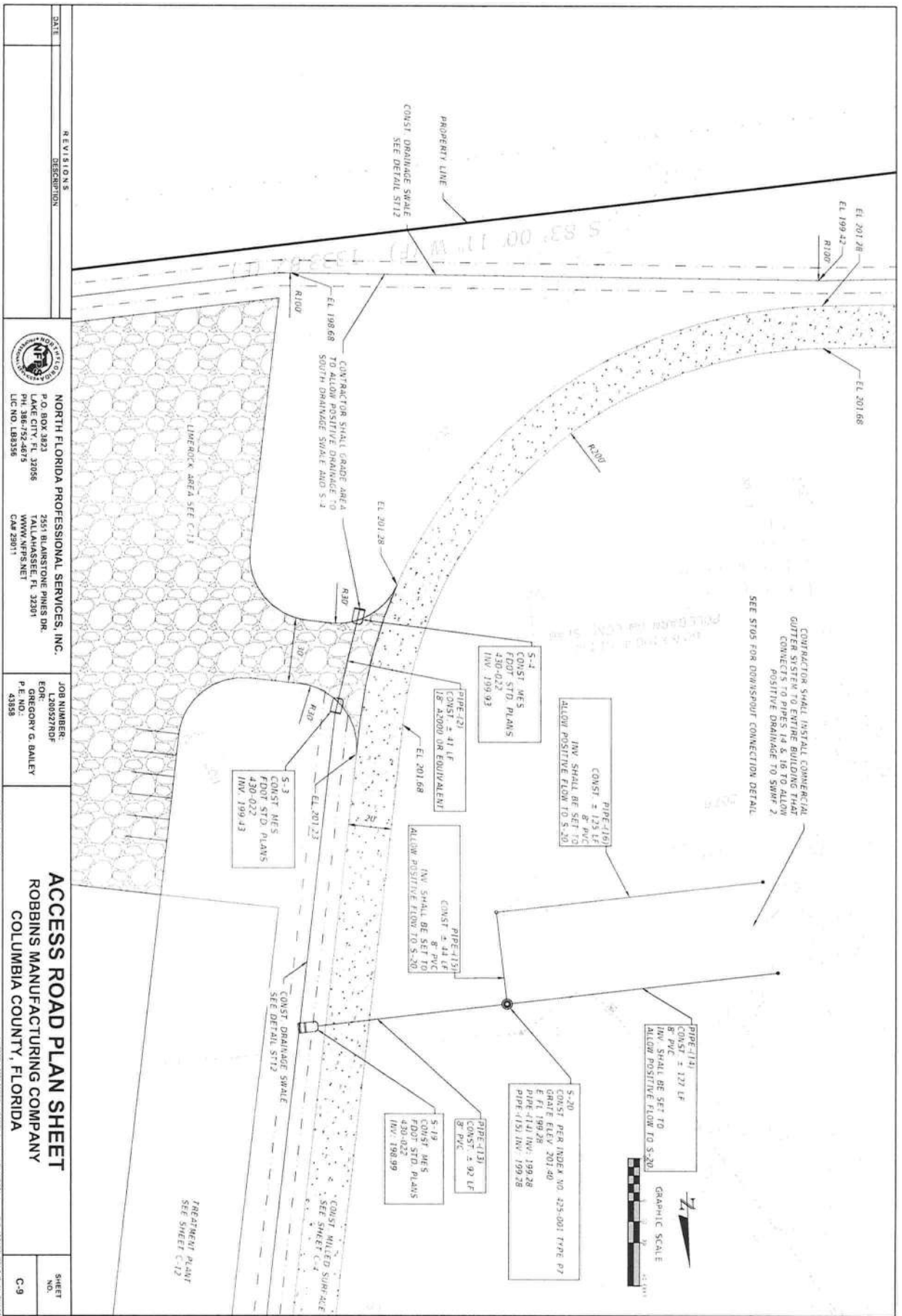
2551 BLAINSTONE PINES DR.
TALLAHASSEE, FL 32301
WWW.NFPS.NET
CAP 29011

JOB NUMBER: L20005780F	FOR: GREGORY G. BAILEY
P.E. NO.: 43855	

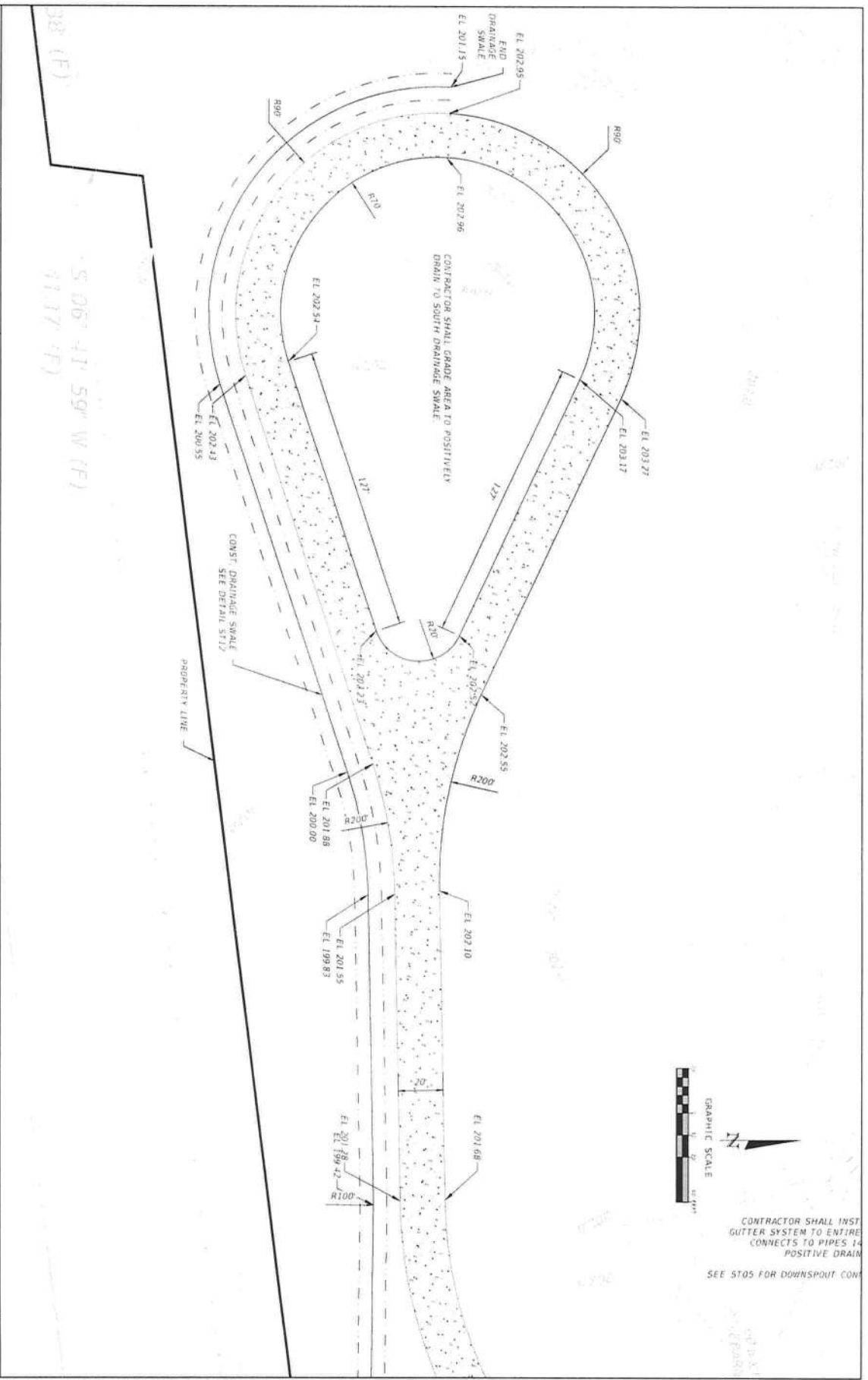
ACCESS ROAD PLAN SHEET
ROBBINS MANUFACTURING COMPANY
COLUMBIA COUNTY, FLORIDA

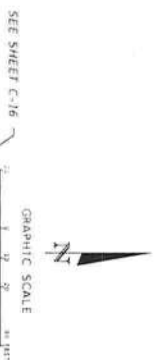
SHEET NO. C-8



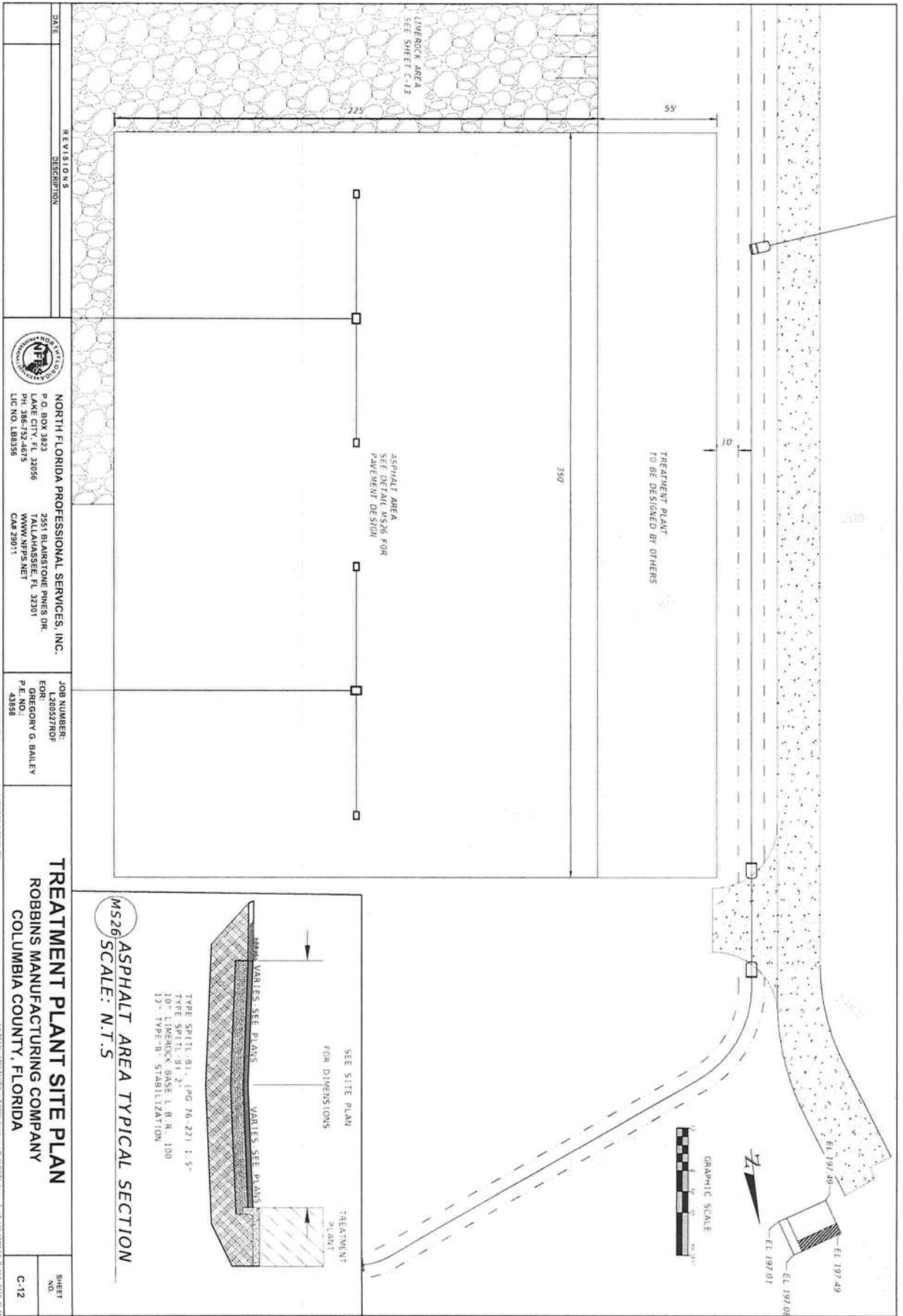


REVISIONS		DATE	DESCRIPTION
			
NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH. 386-752-4675 LIC NO. LB8358		JOB NUMBER: L20052780F EOR: GREGORY G. BAILEY P.E. NO.: 43858	
2551 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CAM 29011		ACCESS ROAD PLAN SHEET ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA	
		SHEET NO.	C-10

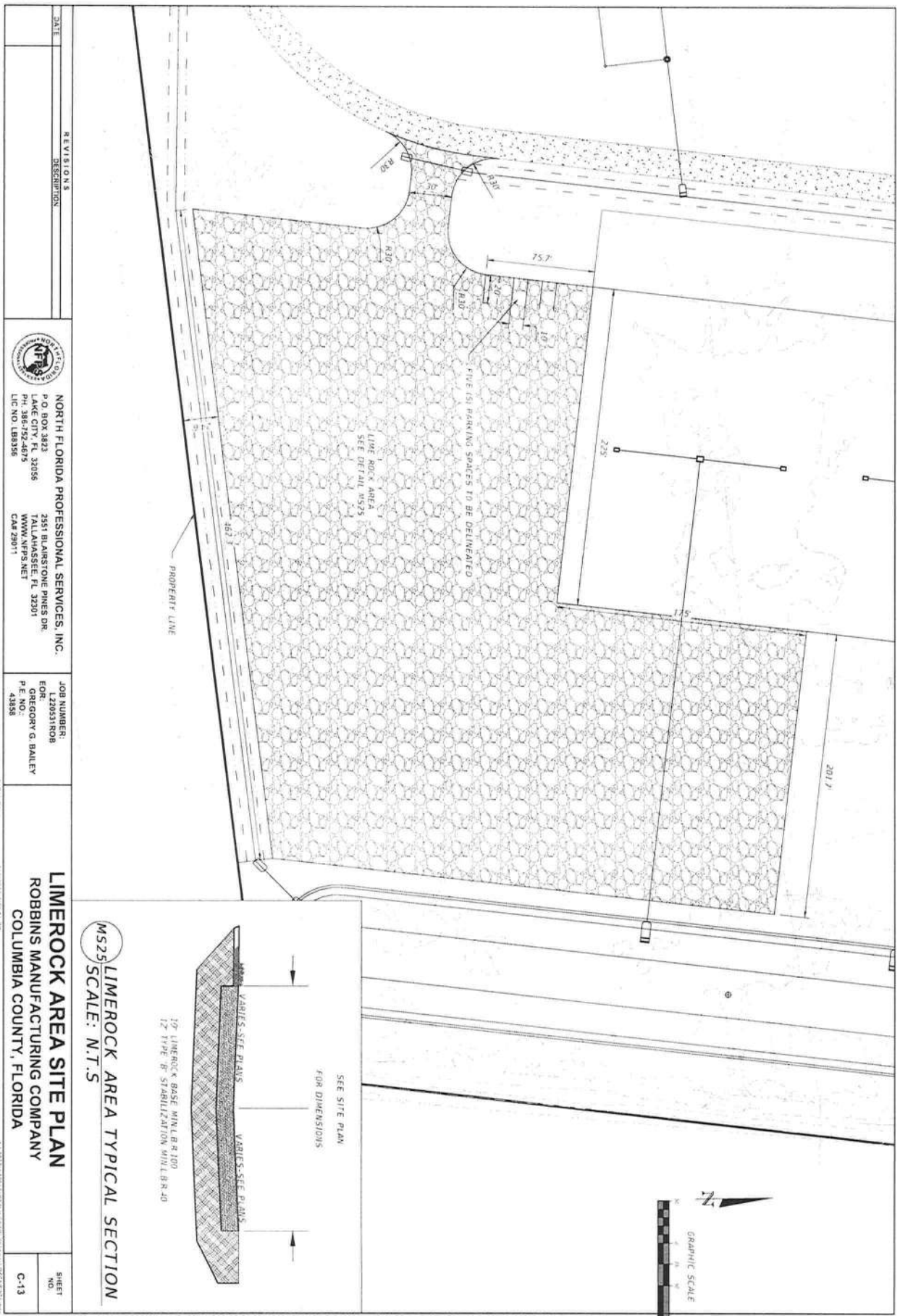




THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

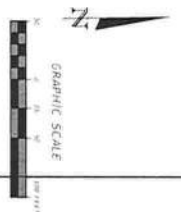
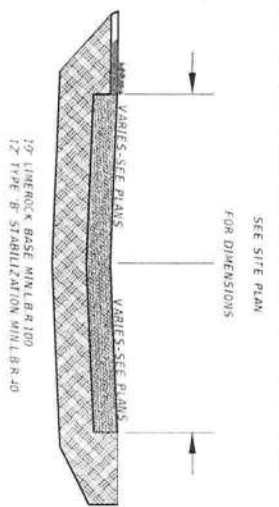


REVISIONS		DATE
DESCRIPTION		
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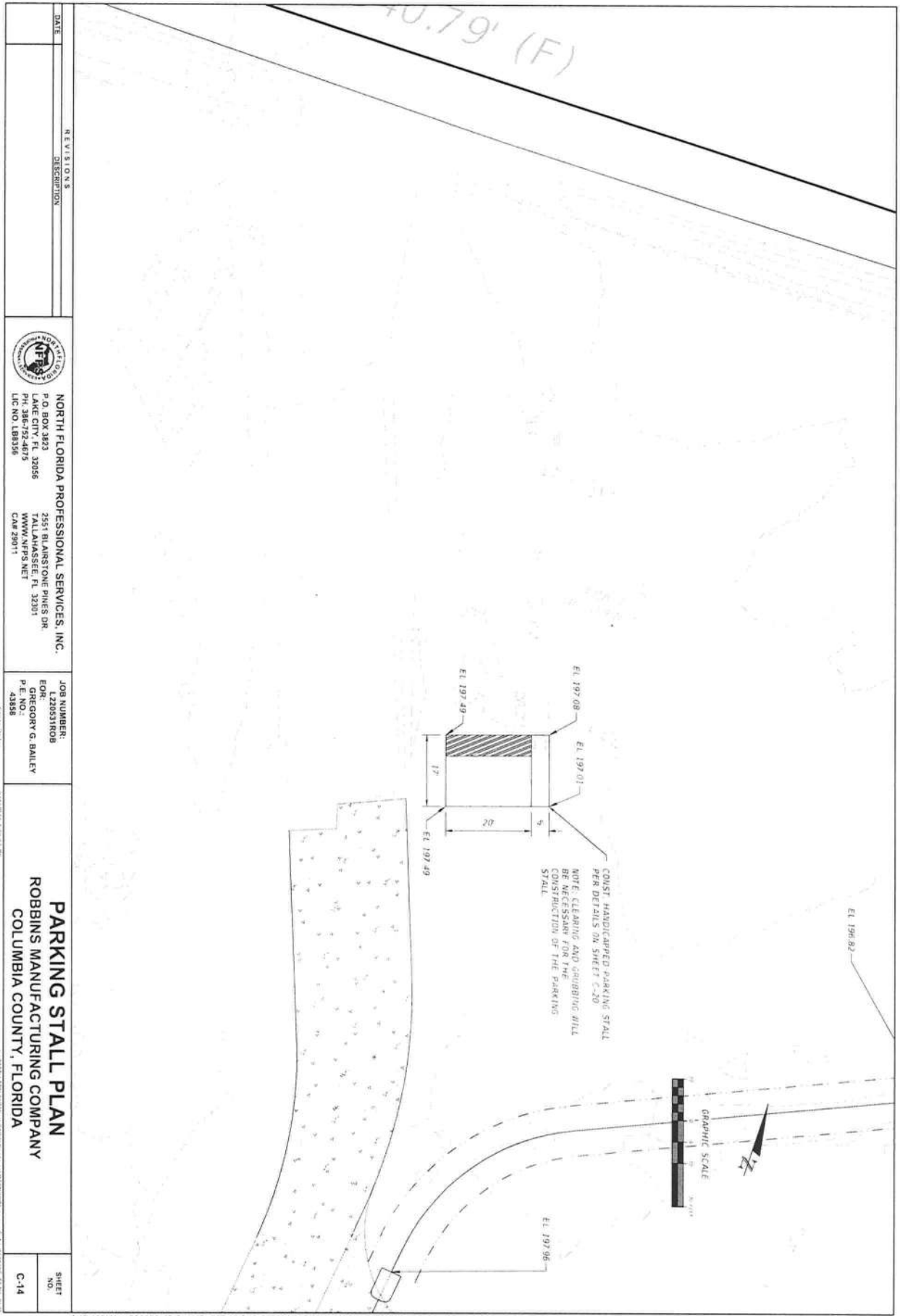


REVISIONS		DATE	DESCRIPTION
 NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH. 386-192-4675 LIC. NO. 1B8358 2351 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CAD 29011			
JOB NUMBER: L220531R08		FOR: GREGORY G. BAILEY P.E. NO.: 43838	
LIMEROCK AREA SITE PLAN ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA			
SHEET NO.		C-13	

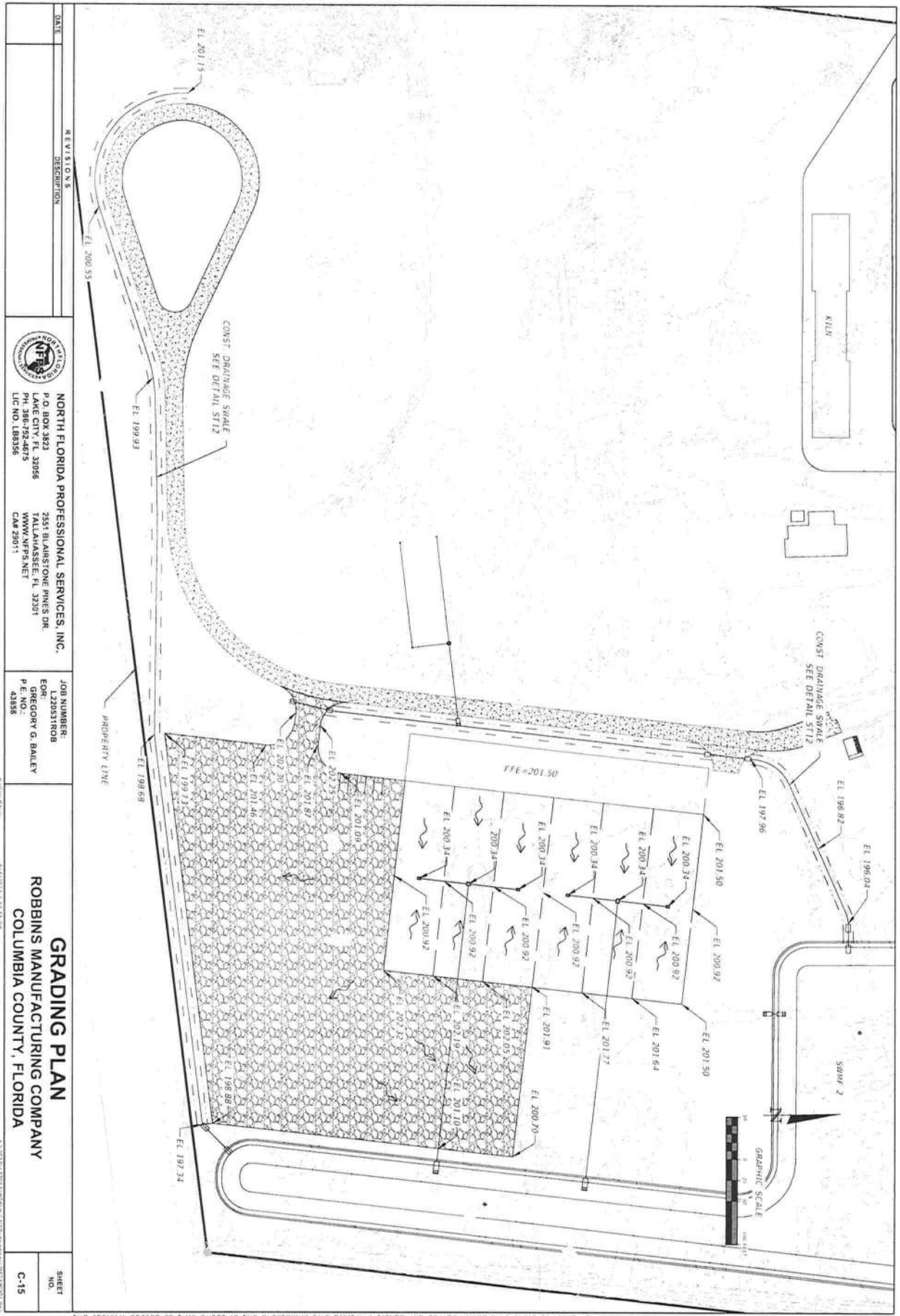
MS25 LIMEROCK AREA TYPICAL SECTION
SCALE: N.T.S.



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SCALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS		DATE
DESCRIPTION		
NORTH FLORIDA PROFESSIONAL SERVICES, INC.		
P.O. BOX 3823		
LAKE CITY, FL 32056		
PH: 386-752-4675		
LIC. NO. 1083356		
2551 BLAINSTONE PINES DR.		
TALLAHASSEE, FL 32301		
WWW.NFPS.NET		
CNP# 259011		
JOB NUMBER:		
EOR: L220531R08		
P.E. NO.: GREGORY G. BAILEY		
43858		
PARKING STALL PLAN		
ROBBINS MANUFACTURING COMPANY		
COLUMBIA COUNTY, FLORIDA		
SHEET NO.		
C-14		



REVISIONS		DATE
DESCRIPTION		
NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH: 386-752-4875 LIC NO. LB8356 2551 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CMA 23011		
JOB NUMBER: EOR: L22053TROB P.E. NO.: 43858		
GRADING PLAN ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA		
SHEET NO.		C-15

10/15/2023 1:14:27 PM

KILL EFF

4.1

PERM. POOL ELEV.: 193'

BOTTOM ELEV.: 192.0'

8.1

TOP ELEV.: 197.7'

EXIST. GROUND

SCALE: N.T.S.

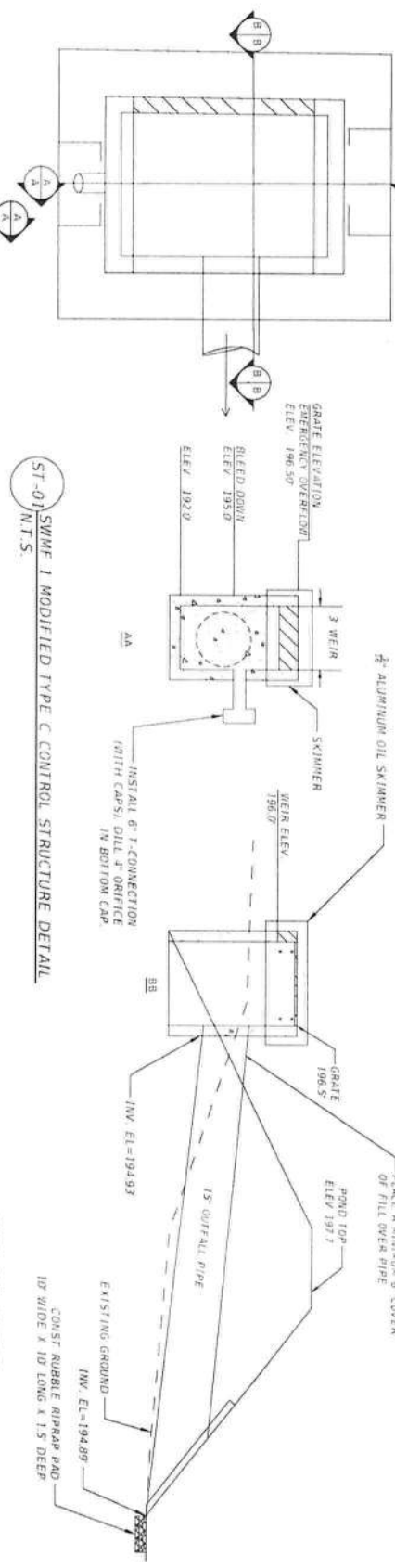


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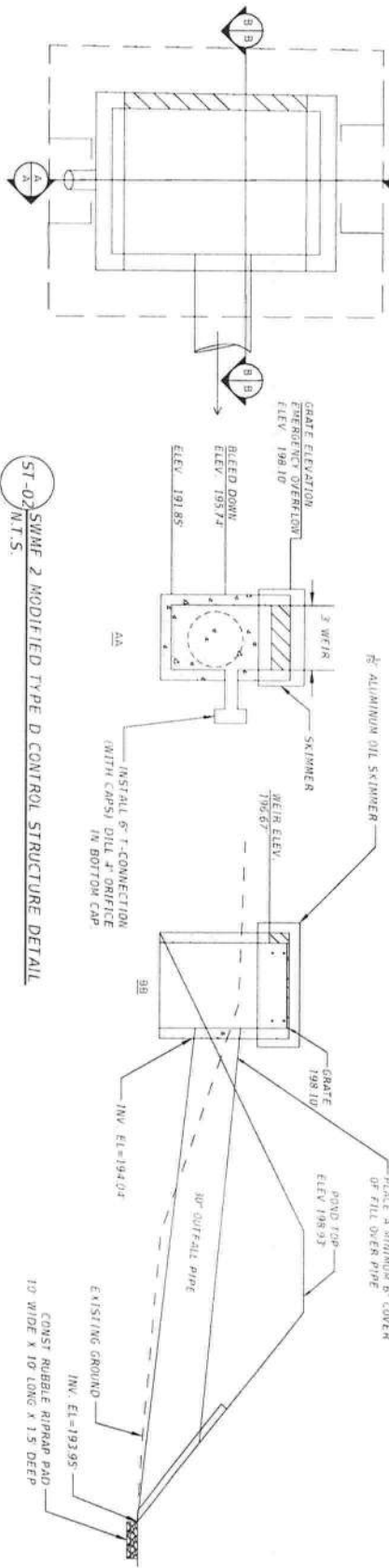


CRITICAL EVENT: 100 YR - 8 HR
MAX STAGE: 197.93

SECTION A-A AND B-B SWMF 2 DETAIL
SCALE: N.T.S.



ST-01 SWMF 1 MODIFIED TYPE C CONTROL STRUCTURE DETAIL
N.T.S.

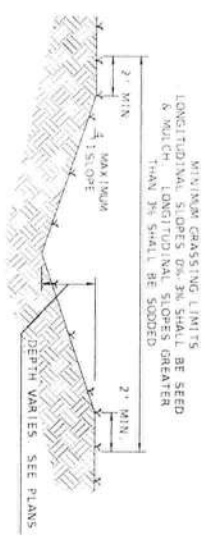


ST-02 SWMF 2 MODIFIED TYPE D CONTROL STRUCTURE DETAIL
N.T.S.

DATE	REVISIONS	DESCRIPTION	SHEET NO.
			C-18
NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH: 386-52-4875 LIC NO. LB8535 2351 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CAM 23011 JOB NUMBER: EOR: L22053/ROB GREGORY G. BAILEY P.E. NO.: 43858 ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA			

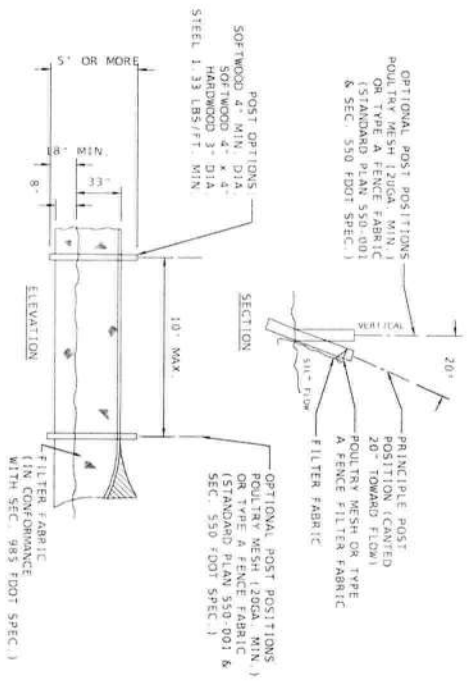
REVISIONS		DATE	
DESCRIPTION			
		NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH: 386/52-4875 LIC NO. 188536	
JOB NUMBER: L220531R0B ENGINEER: GREGORY G. BAILEY P.E. NO. 43835		2551 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CAD 22011	
MISC. DETAILS ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA		SHEET NO. C-19	

ST12 GRASSED SWALE DETAIL
SCALE: N.T.S.

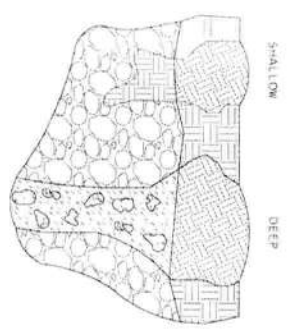
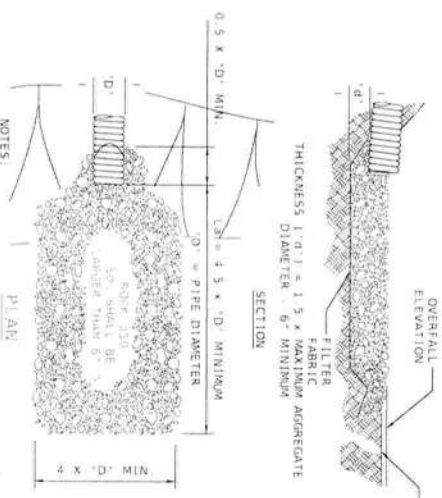


DESIGNER'S NOTES:
ADD TRM MANUFACTURER'S TYPE AND
SPECIFICATION AS REQUIRED.
ADD TRM MANUFACTURER'S
INSTALLATION NOTES AND STABLE
PATTERN AS REQUIRED.
DELETE THIS TEXT WHEN COMPLETE.

ER18 TYPE IV SILT FENCE
SCALE: N.T.S.



ER11 ENERGY DISSIPATOR DETAIL
SCALE: N.T.S.



ER23 KARST FEATURE REPAIR DETAIL
SCALE: N.T.S.

NOTES:
THE FOLLOWING SHALL BE PERFORMED IN THE EVENT ANY KARST
FEATURES FORM DURING CONSTRUCTION: E.G. SOLUTION CAVITIES,
CHIMNEYS, SINKHOLES

1. NOTIFY THE WATER MANAGEMENT DISTRICT AND THE APPLICABLE
MUNICIPAL OR COUNTY PUBLIC WORKS IMMEDIATELY WHEN THE
FEATURES ARE ENCOUNTERED. THE METHOD OF REPAIR SHALL BE
APPROVED BY THE DISTRICT, COUNTY, OR CITY. APPROVAL PRIOR TO
ATTEMPTING ANY REPAIR.

2. SHALLOW KARST FEATURES ARE TYPICALLY LESS THAN 5' DEEP
AND ONLY HAVE SMALL VOIDS IN THE LIMESTONE. THE FEATURE
CAN BE REPAIRED BY BACKFILLING WITH A LOWER PERMEABILITY
MATERIAL, SUCH AS CLAYEY SAND OR CLAY. COMPACT THE
BACKFILL AND CREATE A SMALL WOUND SLIGHTLY ABOVE GRADE
TO ACCOUNT FOR SETTLING.

3. DEEP KARST FEATURES SHALL BE REPAIRED MORE PERMANENTLY.
REPAIR THE FEATURE WITH A LOWER PERMEABILITY MATERIAL, SUCH AS
CLAYEY SAND OR CLAY. COMPACT THE BACKFILL TO GRADE.



- DENSITY

MS06
SCALE: N.T.S



- NOTES

MS23
SCALE: N.T.S.



- UNITED STATES**

MS21
SCALE: N.T.S.



- SECTION NOTE

MS24
SCALE: N.T.S.

SCALE: N.T.S.

REVISIONS		DATE	
DESCRIPTION			
 NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH: 407-524-6675 LIC NO. 189358 2551 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CMA 23071		JOB NUMBER: LJ200317008 FOR: GREGORY G. BAILEY P.E. NO.: 43558	
MISC. DETAILS ROBBINS MANUFACTURING COMPANY COLUMBIA COUNTY, FLORIDA			
			SHEET NO.
			C-20

STRUCTURAL ALIGNMENT

- SLAB AND WALL REINFORCING BAR PLACEMENT
- USE 3/8" EIGHTEEN FOR REINFORCING IN 2000 PSI CONCRETE AS FOLLOWS
- | BAR SIZE | TOP | OTHER | THICKNESS | PERIMETER LENGTH |
|----------|-----|-------|-----------|------------------|
| #3 | 21" | 5" | 13" | |
| #4 | 19" | 20" | 17" | |
| #5 | 16" | 25" | 17" | |
| #6 | 43" | 31" | 35" | |
| #7 | 54" | 35" | 37" | |
| #8 | 71" | 51" | 47" | |
- USE SPECIAL EIGHTEEN FOR REINFORCING IN 1000 PSI CONCRETE AS FOLLOWS

44	19	20	17
54	15	23	21
64	46	33	27
87	63	55	37
88	69	59	48

FLOOR SLABS

1. FLOOR SLAB SHALL BE ON AT LEAST 7" OF FILL WITH CLEAN WASH MATERIAL (SIC) 46
2. FLOOR SLAB SHALL BE ON AT LEAST 12" OF FILL WITH CLEAN WASH MATERIAL (SIC) 46
3. PASSING THE 117.5 SIEVE AND A WASH IN FINE PASSING THE NO. 200 SIEVE.
4. THE FILL SHALL BE A TYPE 3 FILL, TYPE 100 FILL OR EQUIVALENT, IN THE WORK AREA
5. CONTACTED WITH A HEAVY DUTY 2' X 2' X 2' SHOT BY SHOT, OR EQUIVALENT, COMPACTOR THAT
6. DEPENDS UPON THE TYPE OF FILL TO BE USED TO PASS THE 117.5 SIEVE AND WASH
7. HEAVY DUTY SHOT BY SHOT, SHALL CONSIST OF AN AVERAGE NON-PLASTIC CLAY, OR
8. CONTAINING LESS THAN 5% WATER, PASSING THE 200 MESH SIEVE.

DEVELOPMENT AND

- [illegible]

MATERIAL	MINIMUM PERCENT COMPLETION
STRUCTURAL FILL IN THE BUILDING AREA	95
BASE FOR SLAB SUPPORT	95
GRADE BELOW STRUCTURAL FILL	95
CELLIAROUS MATERIAL	90

SHEET SCHEDULE				
SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE	DESCRIPTION
5-001	SYMBOLICAL NOTES	0	4/5/12	55632 5-001 CONSTRUCTION
5-002	PROPOSED PLAN	0	4/5/12	55632 5-002 CONSTRUCTION
5-003	CONCRETE SECTIONS	0	4/5/12	55632 5-003 CONSTRUCTION
5-004	BUILDING LAYOUT PLAN	0	4/5/12	55632 5-004 CONSTRUCTION
5-005	BUILDING ELEVATION	0	4/5/12	55632 5-005 CONSTRUCTION
5-006	ROOF RAISING PLAN	0	4/5/12	55632 5-006 CONSTRUCTION
5-007	RAISING ELEVATIONS	0	4/5/12	55632 5-007 CONSTRUCTION
5-008	RAISING ELEVATIONS	0	4/5/12	55632 5-008 CONSTRUCTION
5-009	INTERIOR DETAILS	0	4/5/12	55632 5-009 CONSTRUCTION
5-010	SECTIONS	0	4/5/12	55632 5-010 CONSTRUCTION
5-011	FOUND AND REAS WALLS	0	4/5/12	55632 5-011 CONSTRUCTION
5-012	DOOR THRESH AND SIDE	0	4/5/12	55632 5-012 CONSTRUCTION
5-013	DOOR THRESH AND MAIN SECTIONS	0	4/5/12	55632 5-013 CONSTRUCTION

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STRUCTURAL NOTES

2305-015

Chad S-001

0.

110 JOURNAL OF DOCUMENTATION

[illegible]

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DOBINS	GG		
DOBINS	GG		
DOBINS	GG		

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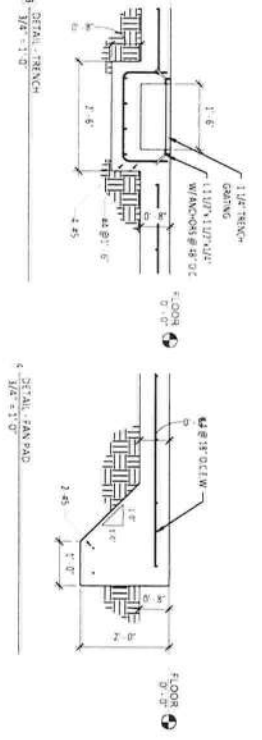
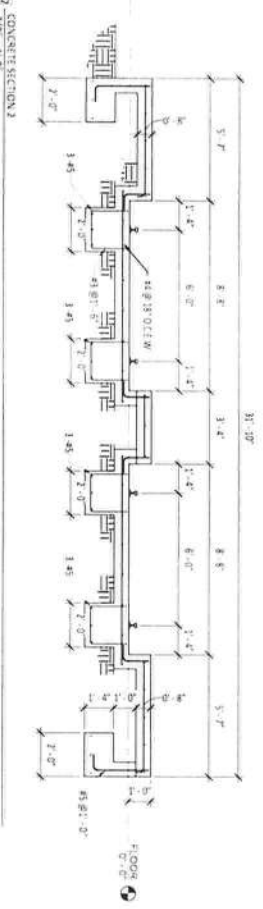
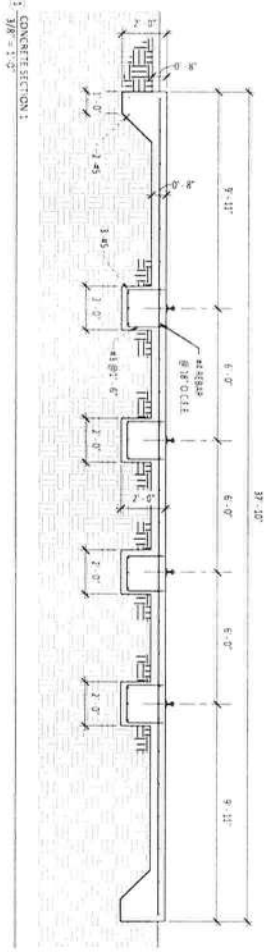
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2305-015

S-002

0.

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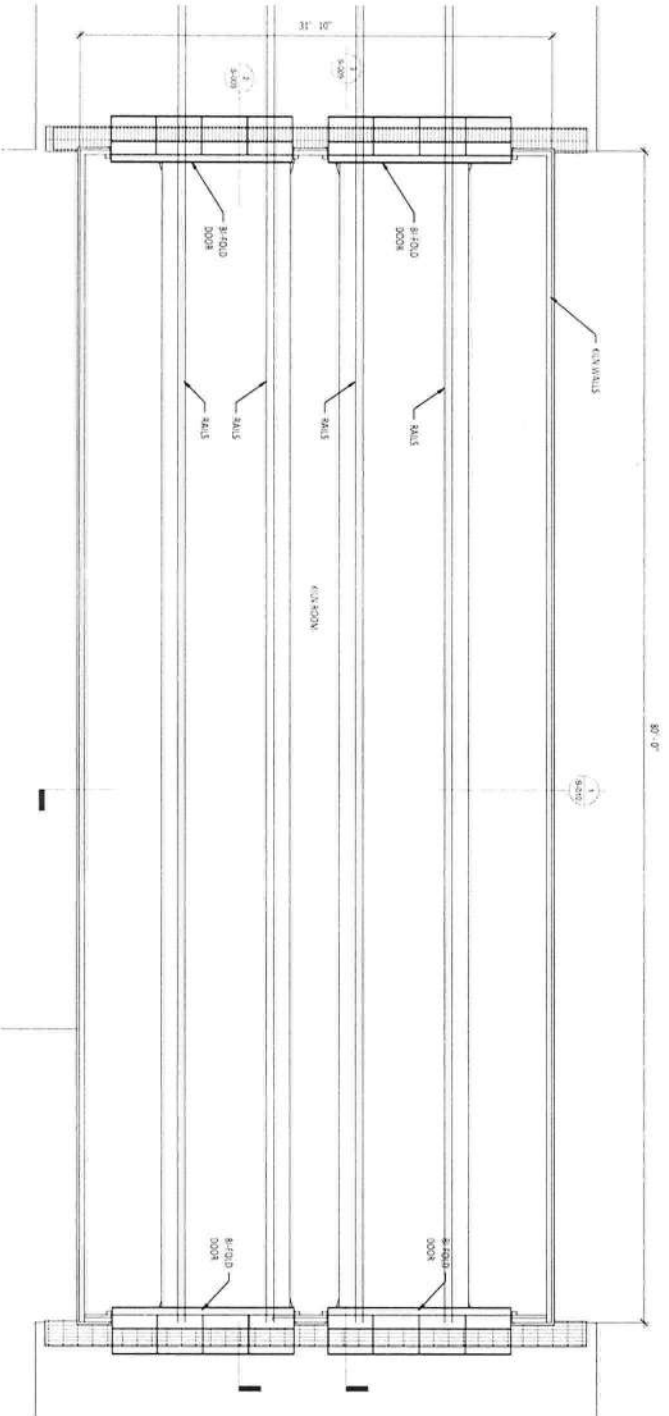
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KILN	
CO. LAMBA COUNTY, FL	
TAE ROBINS	
GILL ENGINEERING SERVICES, INC.	
AUTH # 10824	
GARY GILL PE 851942	
425 SW COMMERCE DR 100M	
LAKE CITY, FL 32025 386.550-2142	
Drawn by	GG
Checked by	GG
Approved by	GG

CONCRETE SECTIONS

PROJECT	2305-015	DATE	5-003	REV	0
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Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR CONSTRUCTION	4/23/23



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

8 FT. WIDE WALL PANELS
REFER TO DRAWING 504
FOR DETAILS

WALL LEGEND
1/4" = 1'-0"



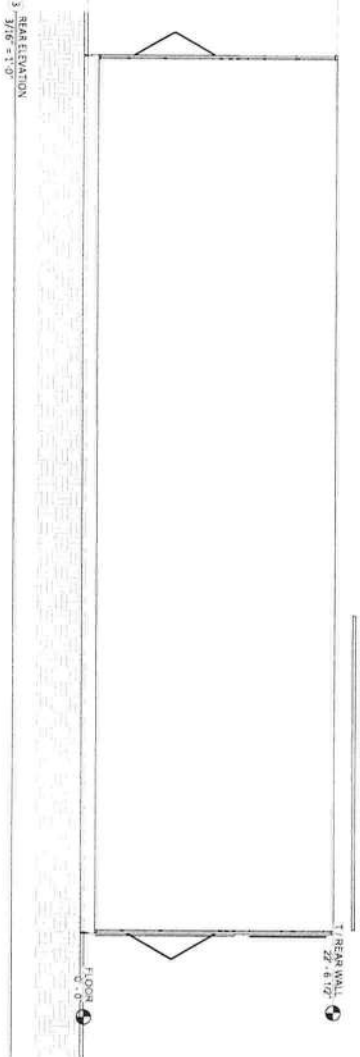
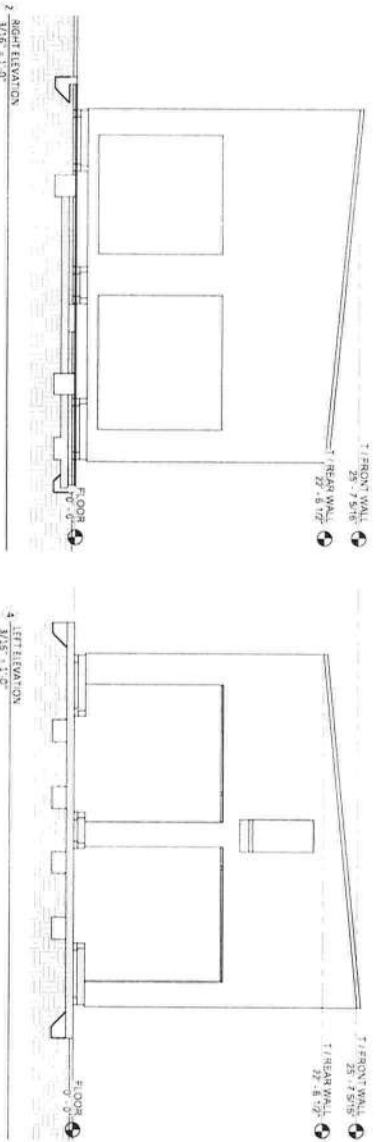
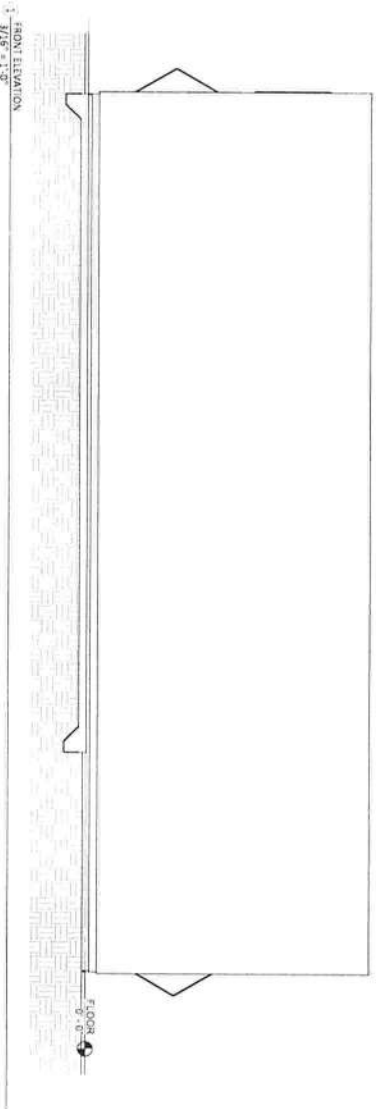
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KILN	
COLUMBIA COUNTY, FL	
THE ROBINS	
Owner	AutoCAD
Designer	AutoCAD
Checker	AutoCAD
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215 SW COMMERCE DR. 100M	
DAKE CITY, FL 32005-886-590-1142	

BUILDING LAYOUT PLAN

PROJECT	2305-015	DATE	5-004	REV	0
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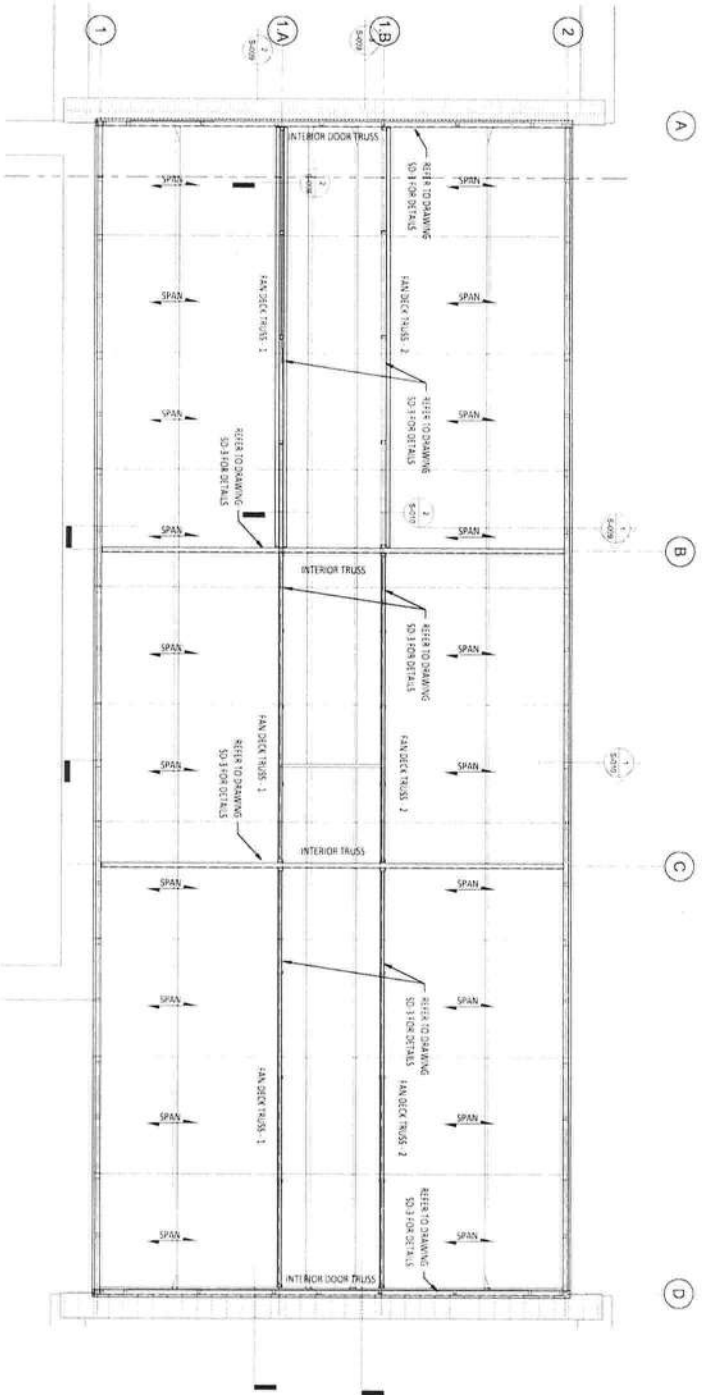
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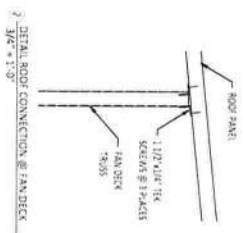
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Drawn by	Author			GILL ENGINEERING SERVICES, INC.	ALUM # 50926	
Check by	Checker					
Approved	Approver					
BUILDING ELEVATION						
PROJECT #	2305-015	DATE	5-005	REV	0	

Revision Schedule		
Revision Number	Revision Description	Revision Date
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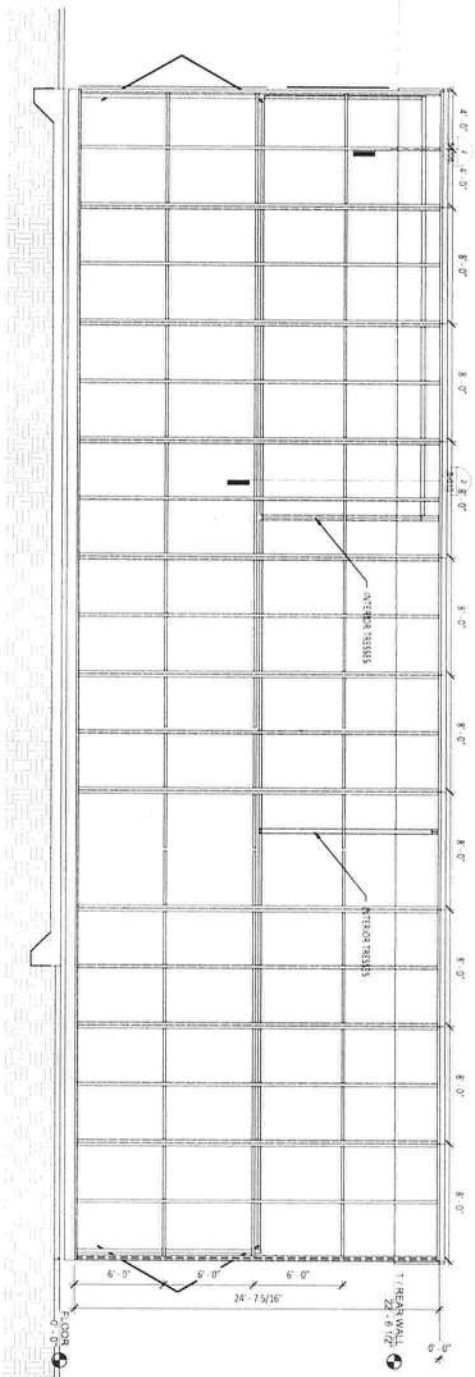
1 ROOF FRAMING
1/4" = 1'-0"



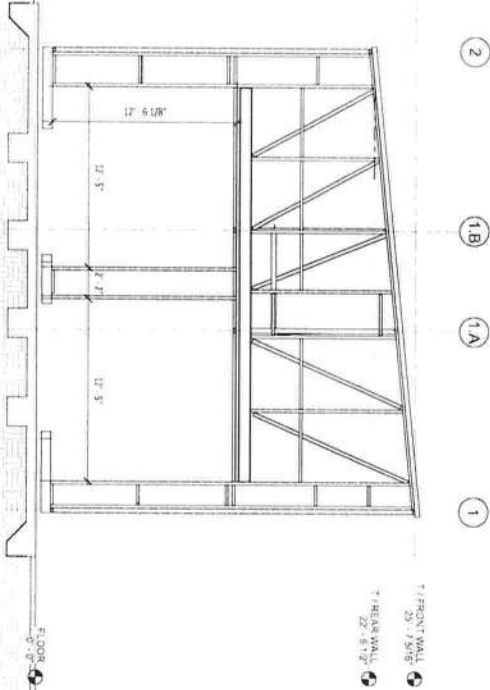
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KILN			
COLUMBIA COUNTY, FL			
Title: ROOF-155		GILL ENGINEERING SERVICES, INC.	
Designer	Author	ALVIN # 80821	
Checker	Checker	GLAY GILL PE #51541	
Approver	Approver	425 NW COMWICK DR 100W LAKE CITY, FL 32005 888-569-1242	
ROOF FRAMING PLAN			
Sheet #	DATE	SCALE	REV
2305-015		5-006	0

Revision Number	Revision Description	Revision Date
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3. FRONT FRAMING
1/4\"/>



3. LEFT FRAMING
1/4\"/>

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Drawn	GD	Allen # 10015	GILL ENGINEERING SERVICES, INC.
Checked	GD	Alan Gill # 101302	
Project	GD	P.O. BOX 1140	
		LIVE OAK, FL 32064	888-395-1242

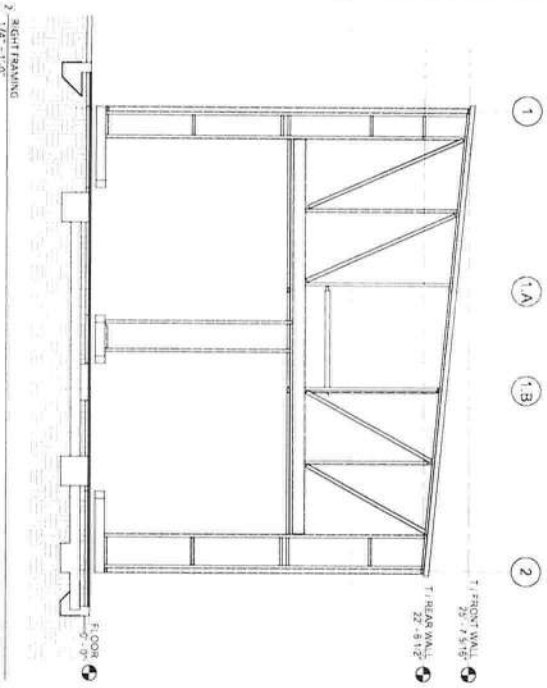
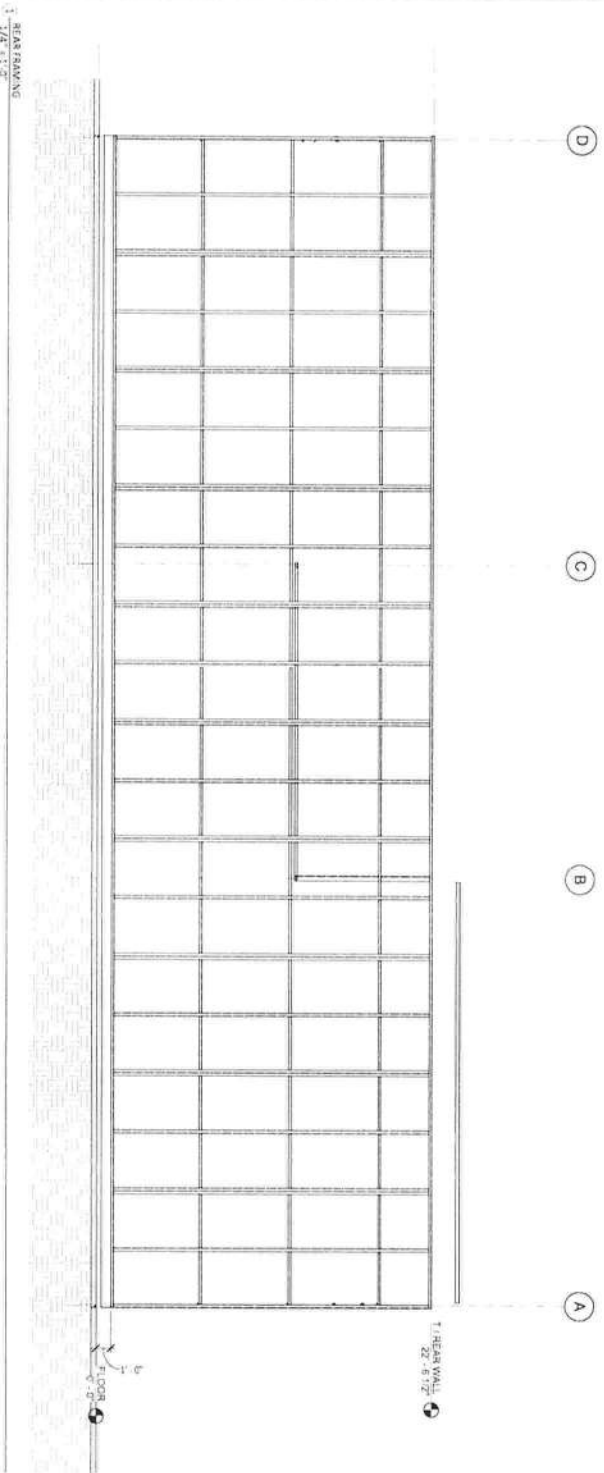
FRAMING ELEVATIONS

2305-015

S-007

0

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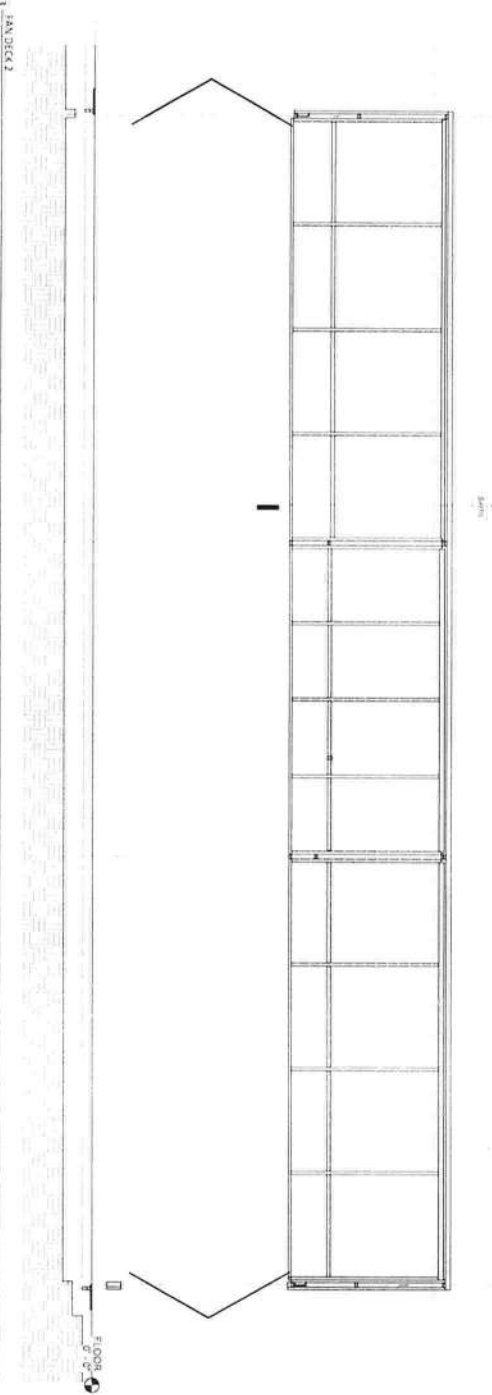
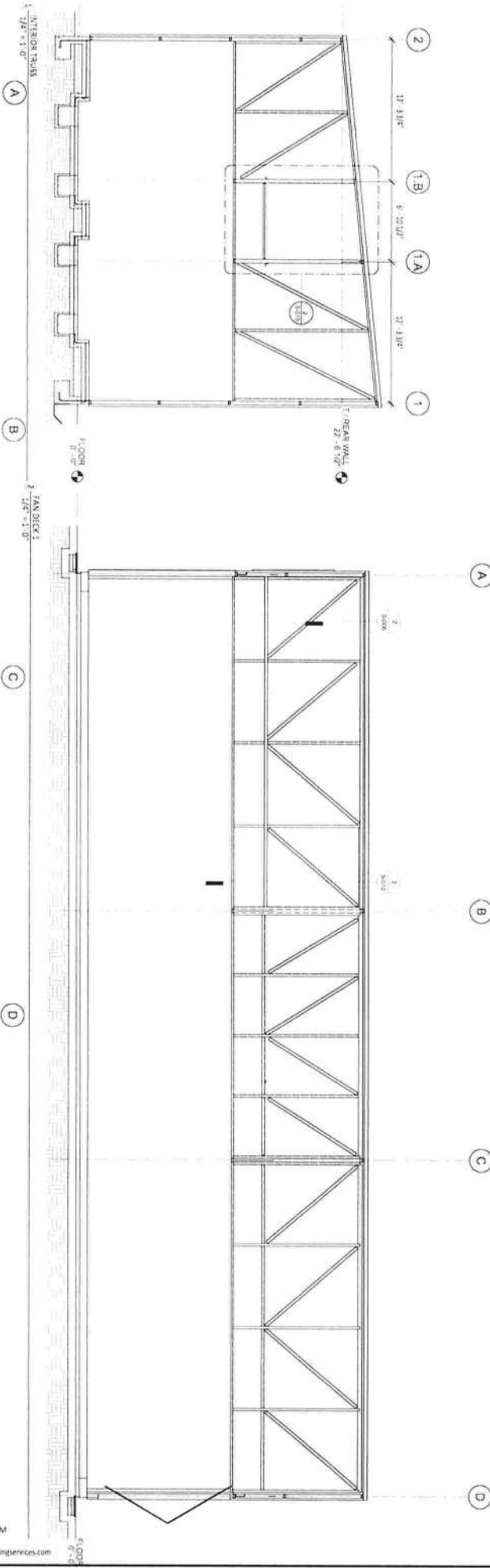
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FRAMING ELEVATIONS

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Owner	Architect	GILL ENGINEERING SERVICES, INC.		AUTH # 18924	
Checker	Checker	GARY GILL PE 95194		418 SW CORNWELL DR 150M	
Approver	Approver	JANE CRYL FL 10815 388 550 1142		JAN 2023	
PROJECT #		2305-015		S-008	
SHEET #		5-008		0	

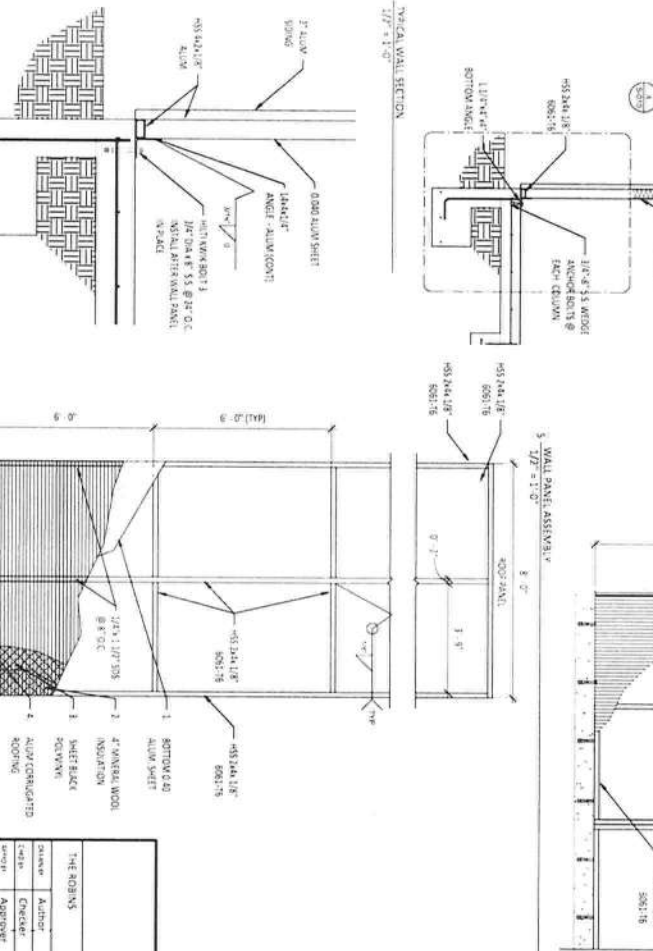
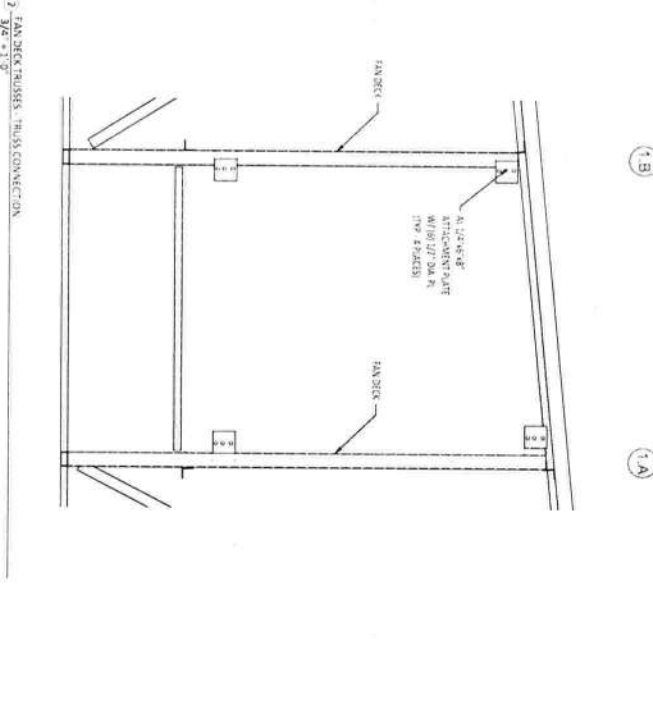
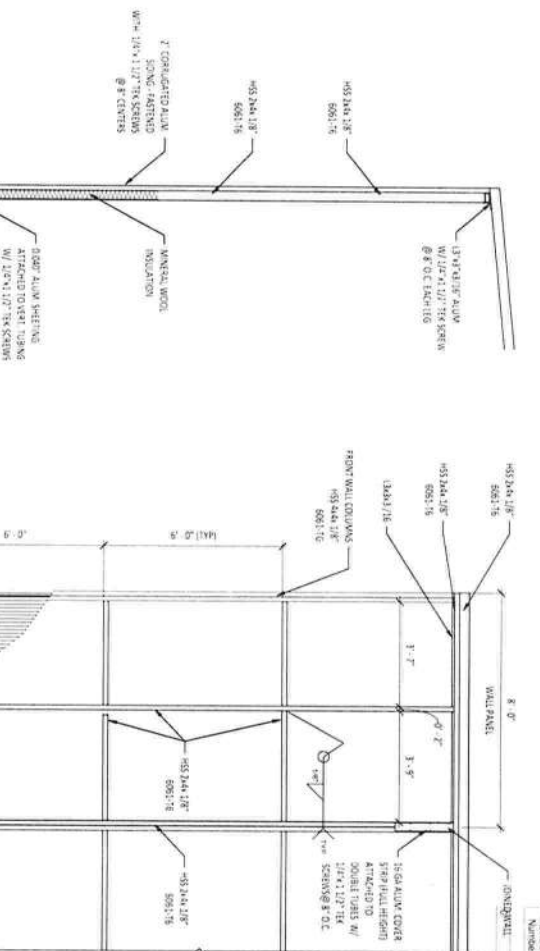
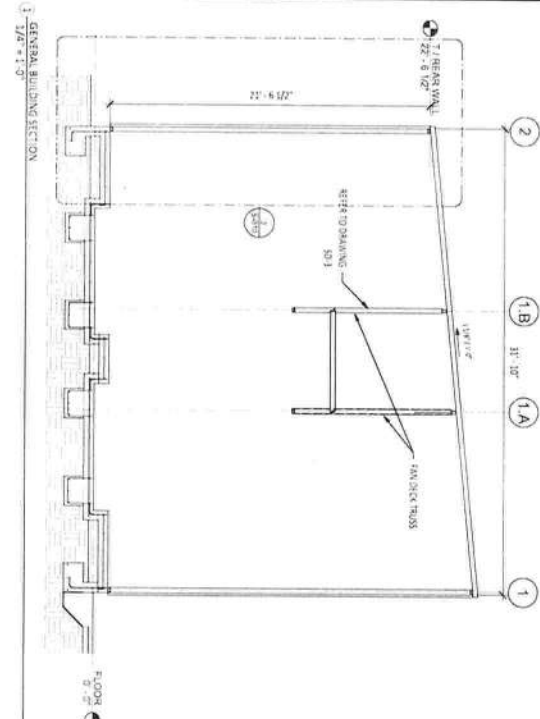
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COLLIER COUNTY, FL			
THE ROBBINS		GILL ENGINEERING SERVICES, INC.	
Owner	Author	ALVIN ROBBINS	4/5/23
Checker	Checker	GARY GILL	4/5/23
Approver	Approver	DAVE GILL	4/5/23
INTERIOR TRUSSES		2305-015	
5-009		0	

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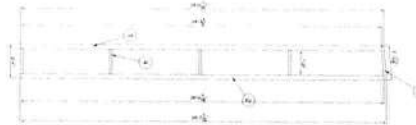
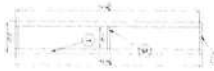
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KILN	
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GILL ENGINEERING SERVICES, INC.	
Drawn	Author
Checked	Design
Approved	Project
2305-015	

SECTIONS

S-010

0



NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	ROOF PANEL	1	SQ. YD.	
2	ROOF PANEL	1	SQ. YD.	
3	ROOF PANEL	1	SQ. YD.	
4	ROOF PANEL	1	SQ. YD.	
5	ROOF PANEL	1	SQ. YD.	
6	ROOF PANEL	1	SQ. YD.	
7	ROOF PANEL	1	SQ. YD.	
8	ROOF PANEL	1	SQ. YD.	
9	ROOF PANEL	1	SQ. YD.	
10	ROOF PANEL	1	SQ. YD.	

SIDE WALL "S1"
(2) REQUIRED

SIDE WALL "S2"
(2) REQUIRED

SIDE WALL "S3"
(2) REQUIRED

ROOF PANELS
(10) REQUIRED

1. ROOF PANEL AND SIDE
2/4" = 1'-0"

GILL ENGINEERING SERVICES, INC.
GARY GILL, P.E.
425 SW COMMENCE DR. SUITE 130-M
LAKE CITY, FL 32025

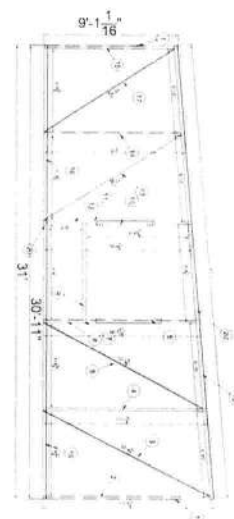
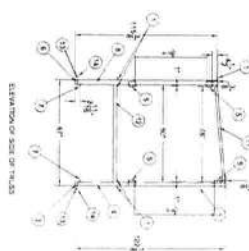
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Engineering Services, Inc.

BOLD DESIGNS INC. HUDSON, N.C.
2601 WITHERS DRIVE
HUDSON, NORTH CAROLINA, 28638
Ph: (828) 754-7001 Fax: (828) 754-7911

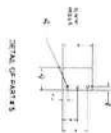
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COLUMBIA COUNTY, FL

PROJECT:

ROOF PANEL AND SIDE

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ELEVATION OF SOIL ON TRUSS



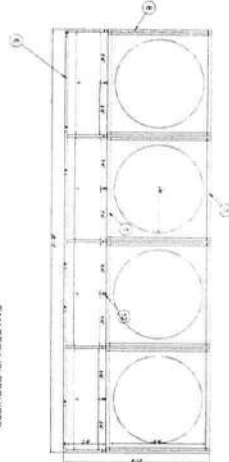
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Figure 1 is a map of the study area in the Yangtze River Delta. It shows the Yangtze River flowing through the region. Four sampling sites are marked: A (near the river mouth), B (further inland), C (near the river), and D (further inland). The map includes a coordinate grid and labels for various locations, including Shanghai, Nanjing, and Suzhou. The map is oriented with North at the top.

FAN DECK (2) REQUIRED


$$2 \frac{\text{FAN DECK}}{1/2" = 1'0"}$$

Gill
Engineering Systems, Inc.

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PROJECT PREPARED FOR:
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COLUMBIA COUNTY, FL

DOOR TRUSSES AND FAN DECKS