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APPLICATION for PERMIT TO CONSTRUCT
AND
OPERATIONS PLAN

For a

C&D TRANSFER STATION

At

RIVER CITY RECYCLING

FAYETTEVILLE, NORTH CAROLINA



Submitted To:

Mr. Jim Barbour
Division of Waste Management
NCDENR
1646 Mail Service Center
Raleigh, NC 27699-1646

Prepared For:

CAPE FEAR SITEWORKS INC.

By:

WILLIAM M. HESTER
CAPE FEAR SITEWORKS INC.
1049 S. EASTERN BLVD.
FAYETTEVILLE, NORTH CAROLINA 28306

Cape Fear Site Works

~~Fax~~ Submittal

To: Jim Barber



From: P. H. HESTER

Company: NC DENR

Date: 7/6/05

Fax: _____

Pages: _____ (including cover)

RE: C&D Transfer facility Application

If you do not receive _____ page(s) or if you have received this fax in error, please contact our office immediately.

Urgent For Review Please Comment Please Reply Please Recycle

Notes: Attached are the 3 copies of our request for a permit to operate a C&D Transfer facility. Should you have any questions, my cell # 910 263 2748. I delivered a copy to Mr. Shackelford in the Fayetteville Area office as you suggested.

Thanks PD

Application for
**PERMIT TO CONSTRUCT AND
 OPERATIONS PLAN** for
RIVER CITY RECYCLING TRANSFER STATION
 Fayetteville, North Carolina



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Application for

PERMIT TO CONSTRUCT AND
OPERATIONS PLAN for

RIVER CITY RECYCLING TRANSFER STATION
Fayetteville, North Carolina

1.0 INTRODUCTION

1.1 PURPOSE

River City Recycling, a new division of Cape Fear SiteWorks, Inc. proposes to add to its current operations a transfer station for the disposal of mixed construction and demolition waste. It is the company's intent to provide a disposal site which will provide additional services to its current customer base and to the general public. The company respectfully requests the review of this application and hopeful approval by the North Carolina Department of Environment and Natural Resources. Furthermore, River City Recycling commits to operate the facility in accordance with the rules and regulations of the State, abide by any special conditions applicable to the permit and to be good stewards of the land while operating the facility.

This Operations Plan has been prepared in accordance with the North Carolina Solid Waste Rules 15A NCAC 13B .0402 [Operational Requirements for Transfer Facilities]. The Operations Plan addresses pertinent operational requirements outlined in Rule .0505 [Operational Requirements for Sanitary Landfills].

The purpose of this Operations Plan is to provide the owner and operator (River City Recycling) with a manual that includes the necessary information and procedures to properly operate the transfer station in accordance with all applicable rules and regulations. This manual will serve as a guide to safely operate and maintain the River City Recycling Transfer Station located at 1049 S. Eastern Blvd. in Fayetteville, North Carolina. The Operational Plan will address the following issues:

- Waste acceptance criteria;
- Facility operations;
- Erosion control requirements;
- Drainage control and water protection;
- Disease and vector control;
- Sign and safety requirements; and
- Access and security requirements.

All personnel involved with the management or supervision of the daily operations of the facility will be required to review this document and to maintain the facility in conformance with all applicable requirements. A copy of this document shall be kept on file at the facility attendant's office and at the administrative offices of River City Recycling at all times.

1.2 FACILITY LOCATION

The proposed transfer station will be located at 1049 S. Eastern Blvd (US 301); approximately 1200 feet south of the NC 87/ US 301 interchange in Fayetteville, North Carolina. Access to the site will be via the Eastside Northbound U.S. 301 Service Rd. accessible from the U.S. 301/Womble St. cross-over [see Area Map – Appendix A1 & A2]. The company's business operations are sited on approximately 10 acres and the transfer station will occupy approximately $\frac{3}{4}$ acre of the total property. The proposed transfer facility site is zoned MP [Planned Industrial], which is suitable for the construction and operation of a transfer station. A letter from the Cumberland County Zoning Administration, noting compliance with the zoning requirements of the property is included with this plan [Appendix B].

1.3 FACILITY DESCRIPTION

The proposed River City Recycling Transfer Station will consist primarily of a tip pad, a covered material handling area and a transfer vehicle staging area. The existing gravel access drive, parking area, and toll/scale operator station which are used for other business operations will be shared with the transfer facility operations. A transfer vehicle, scale station / concrete pad that will be shared with other company operations will also be constructed [see site plan – Appendix C].

The tip pad area will be constructed of a hard surface such as concrete or asphalt sufficient to absorb the heavy weight of off-loading the collection vehicles and transfer operation equipment. The covered material handling area will be constructed in accordance with the North Carolina Commercial Building Code and is planned to be of an initial minimum size of 30' deep by 60' wide with the modular capability to expand if necessary [see building plan – Appendix D]. Combined with the uncovered tip area apron, the 3600 square feet of receiving surface should easily handle the expected 45-50 tons per day with an estimated capacity of 120 tons per day. The tip floor and material staging area will be elevated sufficiently to facilitate the load-out of the transfer vehicle and prohibit rain run-off from coming into contact with the debris on the pad.

Once the mixed construction and demolition waste is unloaded from the collection vehicles, all materials banned from the landfill (i.e. cardboard, aluminum cans, pallets etc) will be separated from the debris flow. Other recyclable materials may be separated on a case by case basis. All recovered materials from the waste flow will be deposited into roll-off or other bins and removed from the transfer facility once the bins are full. All remaining waste will be transferred to the outgoing transfer vehicle by loader, excavator or other mechanical means. The proposed facility will utilize electronic scales to aid in monitoring load-out of the transfer vehicles.

Collection vehicles delivering waste to the facility will enter the facility via the service road from U.S. 301 and through the main gate to the property. They will proceed onto the 600 foot entrance road which should be sufficient distance to allow all collection vehicles to queue up off the public service road while waiting to be checked into the River City facility. After check-in, the toll / scale operator will direct collection vehicles to the transfer facility area. The transfer station attendant will direct incoming collection vehicles, waiting to unload, to back onto the tip floor. Once the vehicle is in position and

the station attendant has inspected the waste, the vehicle will be allowed to dump / depositing its load onto the tip floor. After the waste is discharged directly onto the tip floor, it will again be inspected by the facility attendant. If waste is determined to be unacceptable, it will be re-loaded on to the incoming collection vehicle and it will be the responsibility of the operator of the incoming collection vehicle to remove and dispose of the waste at another location that is permitted to receive the waste. Once the waste is accepted by the attendant, the collection vehicle will then be directed to exit the tip floor area. A loader will be used to transfer all acceptable waste to the outgoing transfer vehicle(s). The loader will also be used to lightly compact the waste in the transfer vehicles.

Electronic scales located near the outbound transfer vehicle-loading bay will be used to monitor the weight of the transfer vehicle after it is loaded and before it leaves the facility. Once the transfer trailer has been completely loaded and properly tarped, the vehicle will be driven to the final destination for proper disposal. The waste received at this transfer station will be transported to the *Cumberland County Landfill, Robeson County Landfill, or the Sampson County Landfill* for proper disposal.

The owner of the transfer station will be Cape Fear SiteWorks, Inc. t/a River City Recycling. River City Recycling will be responsible for all transfer station operations. The primary contact person for issues concerning operation of the transfer station will be:

William M. Hester
Cape Fear SiteWorks Inc.
1049 S. Eastern Blvd.
Fayetteville, NC 28306
(910) 486-4226

2.0 WASTE ACCEPCANCE CRITERIA

In accordance with 15A NCAC 13B .0402(2) and .0505(11) (a), a transfer facility shall only accept those wastes which it is permitted to receive. The River City Recycling Transfer Station will only accept construction and demolition debris. The daily tonnage rate is subject to change due to fluctuations in the amount of waste delivered to the facility on any given day and seasonal fluctuations. Therefore, the transfer station will not be allowed to accept more incoming waste than is available in outgoing transfer vehicles located on the site. Waste shall not be removed from incoming waste collection vehicles unless there is sufficient capacity in the onsite transfer vehicle for disposing of the waste. Waste shall not be allowed to remain on the tipping pad for an extended period of time without being transferred to outgoing transfer vehicles.

All incoming waste will be transported to the transfer facility primarily by private waste haulers. The private waste hauler vehicles consist primarily of single and tandem axle dump trucks and roll-off containers. All waste arriving to or leaving from the facility will be tarped or in an enclosed vehicle.

2.1 PROHIBITED WASTES

In accordance with Rule .0505(10)(e), the River City Recycling Transfer Station will not accept containers, barrels and drums unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained in them. In accordance with Rule .0505(11) (b), no hazardous or liquid waste shall be accepted at the transfer station. In addition, the transfer station will not accept infectious waste, medical waste, animal waste, animal carcasses, sludge, radioactive waste, household garbage or any other waste other than construction and demolition debris. In accordance with Rule .0505(11) (a), a report shall be prepared for any attempted delivery of waste that the transfer station is not permitted to receive. The report will be forwarded to:

Division of Waste Management
Department of Environment, Health and Natural Resources
225 Green St – Suite 714
Fayetteville NC 28301

Atten: Mr. Dennis Shackelford
910 486 1541 x. 749

3.0 TRANSFER STATION OPERATIONS

The River City Recycling Transfer Station will operate Monday through Friday from 6:00am to 6:00pm and from 7:30am to 2:00pm on Saturdays. The transfer station will be closed on Sundays and most Federal holidays. A sign will be posted at the entrance to the transfer station identifying the hours of operation. A temporary sign will be posted a minimum of five days in advance of any holiday closing or planned [non-advertised] closing.

River City Recycling will employ properly trained personnel for daily operations of the transfer facility. The River City Recycling Transfer Station will be operated for construction and demolition waste disposal only. The equipment for safe and effective operation of the facility will be:

- Transfer vehicles;
- One track hoe (as needed);
- One skid steer loader or rubber tired loader;
- Roll-off Containers;
- Yard Roll-off Truck; and
- Transfer vehicle loading bay scales.

River City Recycling will provide all primary equipment, some backup equipment, and will perform equipment maintenance. River City will also provide the transfer vehicles, transport the waste, and provide the maintenance of the transfer vehicles. Rented, leased or contracted equipment will be used on a case by case basis if surge demand or mechanical failures dictate.

3.1 INSPECTION OF WASTES

The transfer facility attendant will perform a visual inspection of waste before the collection vehicle discharges its load onto the facility tip floor. As waste is being deposited onto the tip pad, the station attendant will conduct another visual screening of the waste materials. Should unacceptable waste be found, the driver of the incoming collection vehicle will be instructed to terminate dumping and the unacceptable material will be re-loaded onto the vehicle for removal from the facility site. Waste collection agreements for each of the waste delivery accounts will aid in accountability for the different haulers utilizing the site. Should a hauler consistently deliver unacceptable material, they will be denied further access to the transfer station, and the local office of NCDENR will be notified so that the appropriate investigations can occur. In addition, the facility operator and its employees will strictly adhere to all actions as specified in Section 2.0.

3.2 TRAFFIC CONTROL

The transfer station attendant controls access to the transfer station tip floor. All collection vehicles arriving at the facility are guided and directed by the station attendant. The toll/scale operator directs the collection vehicles to the transfer facility unloading area, as outlined in Section 1.3. After depositing the waste, all out-going collection

vehicles will be required to exit the tip floor area prior to the transfer of the waste to the outgoing transfer vehicles. Directional signs, bollards, swales/ditches and landscaping will be used to aid the flow of traffic. At no time will incoming vehicles waiting in line be allowed to queue onto public highways or into areas required for the safe movement of unloading vehicles. The toll/scale operator shall direct all incoming and outgoing truck traffic to use U.S. 301 to access the service road for access to and from the site, and not to use secondary roads such as Womble Street.

3.3 HOUSEKEEPING AND LITTER CONTROL

All incoming collection vehicles are required to have their loads tarped or to be fully enclosed upon arrival at the site. Outbound transfer vehicles are also required to tarp their loads. In addition, outbound transfer vehicles will remain tarped or under roof while on the site except during periods of time that waste is being deposited into the vehicles. Throughout the day and at the end of each day, facility personnel will police the area for any windblown or ejected litter. In accordance with Rule .0505(12) (b), any windblown trash discovered during or at the end of an operating day shall be collected and disposed of in the outbound transfer vehicles.

4.0 EROSION CONTROL

The disturbed area for the proposed River City Recycling Transfer Station is less than one acre; therefore, an erosion and sediment control permit is not required for the facility. In accordance with Rule .0505(4), grass swales and check dams will be installed, inspected, and reinstalled as necessary during construction until vegetative or permanent ground cover has been established at the facility. All other necessary erosion control measures as may be needed to properly control erosion will be installed in accordance with NCDENR standards. Upon completion of construction, all areas without gravel or pavement will have established vegetation cover to prevent the erosion of underlying soil material.

The entire property currently has an active erosion control permit [NCDENR Project # Cumbe-2004-139]. The permit is for general land clearing and grading operations which have been taking place at the site since January 2005. A copy of the approved erosion control plan is on file at the administrative offices of Cape Fear Site Works / River City Recycling.

5.0 DRAINAGE CONTROL AND WATER PROTECTION REQUIREMENTS

In accordance with Rules .0505(5) and .0505(7) (b), the site shall be sloped to divert surface water from the operational area and to allow surface water runoff in a controlled manner. The tipping floor, material handling area and waste transfer areas finished floor shall be at a higher elevation than the surrounding site topography to prevent ponded water from coming in contact with discharged waste. Since both incoming and outbound vehicles will be tarped, leachate should be well controlled. One half of the tip / waste transfer pad shall be covered with a permanent roof structure. All debris deposited at the facility shall be immediately placed under cover in the event of inclement weather to prevent any potential leachate from coming into contact with the debris.

6.0 DISEASE AND VECTOR CONTROL

In accordance with Rule .0505(12) (a), the River City Recycling Transfer Station shall provide effective vector control measures for the protection of human health and the environment. Disease vectors are defined as any rodent, flies, mosquitoes, or any other animals, including insects, capable of transmitting diseases to humans.

Control of disease vectors will be maintained by implementation of a cleaning program that involves removal of waste from all operating areas and tarping of all transported and stationary waste during the day. The removal and tarping of waste will protect against migration of vectors into and from the transfer station. The River City Recycling Transfer Station may also use deodorizers as needed to accomplish these goals. Stagnant ponded water shall be prevented from occurring to control mosquito breeding. If problems controlling disease vectors occur, a licensed exterminator shall be utilized to control the vectors.

7.0 SIGN AND SAFETY REQUIREMENTS

7.1 SIGN REQUIREMENTS

In accordance with Rule .0505(9)(a)(b)(c), the transfer station shall post signs at the transfer station entrance indicating operational procedures, hours of operation, tipping fee, and the permit number. Signs shall be clearly posted stating that no hazardous or liquid waste can be received, and that the transfer facility only accepts residential and commercial construction and demolition debris. Traffic signs and markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions. Additional signs will be added if needed to promote safety and / or the proper and efficient use of the facility.

7.2 OPEN BURNING OF WASTE

In accordance with Rule .0505(10) (a), open burning of waste shall be prohibited at the transfer station.

7.3 FIRE PROTECTION EQUIPMENT

In accordance with Rule .0505(10) (b), fire suppression equipment shall be provided to control accidental fires. The transfer station shall be equipped with two fire extinguishers to effectively control small, accidental fires. All equipment and vehicles at the facility shall be equipped with fire extinguishers.

7.4 NOTIFICATION OF FIRE

In accordance with Rule .0505(10)(c), fires that occur at the River City Recycling C&D Transfer Station require verbal notice to the Division of Solid Waste within 24 hours and written notification shall be submitted within 15 days. Verbal and written notification shall be submitted to the Regional Office Waste Management Specialist:

Atten: Mr. Dennis Shackelford
910 486 1541 x. 749

Division of Waste Management
Department of Environment, Health and Natural Resources
225 Green St – Suite 714
Fayetteville NC 28301

8.0 ACCESS AND SECURITY REQUIREMENTS

8.1 TRANSFER STATION ACCESS AND SECURITY

In accordance with Rule .0505(8)(a), the transfer station must be secured by means of gates, chains, berms, fences, and other security measures approved by the Division of Solid Waste Management to prevent unauthorized entry. All vehicles will enter and exit the site passing through the access control gate located at the entrance to the property, and will be monitored by the toll/scale operator and the transfer station attendant. During non-operational hours, access by unauthorized vehicles will be restricted at the main entrance by the heavy duty double swing gate. The property perimeter contains berms and ditches and fencing which will deter uncontrolled access.

8.2 ATTENDANT

In accordance with Rule .0505(8)(b), the River City Recycling Transfer Station will have a full-time attendant located at the facility during operating hours. The transfer station attendant will be responsible for verifying that all users of the facility comply with the permitted operational requirements.

8.3 ACCESS ROAD

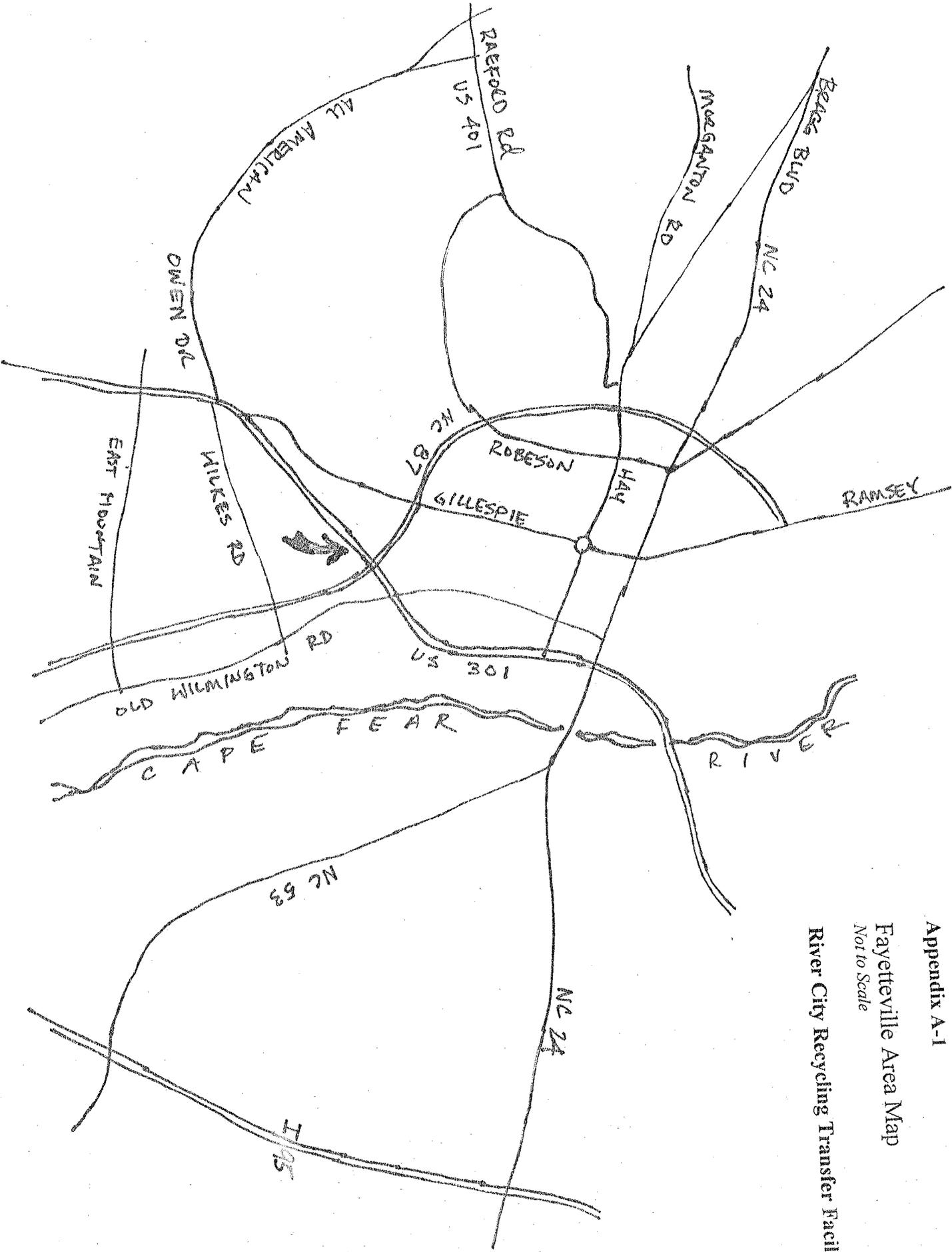
In accordance with Rule .0505(8)(c), the access roads for the River City Recycling Transfer Station will be constructed of an all-weather surface (6" ABC) and shall be maintained in good condition. Potholes, ruts, and debris on the roads shall receive immediate attention in order to avoid damage to the vehicles. The access road will be regraded as necessary to maintain positive slope for adequate drainage. Water and/or firming agents shall be utilized sparingly to suppress dust during dry periods of weather. The first 100 feet of the main entrance road will be asphalt pavement in accordance with NCDOT driveway permit.

Appendix A-1

Fayetteville Area Map

Not to Scale

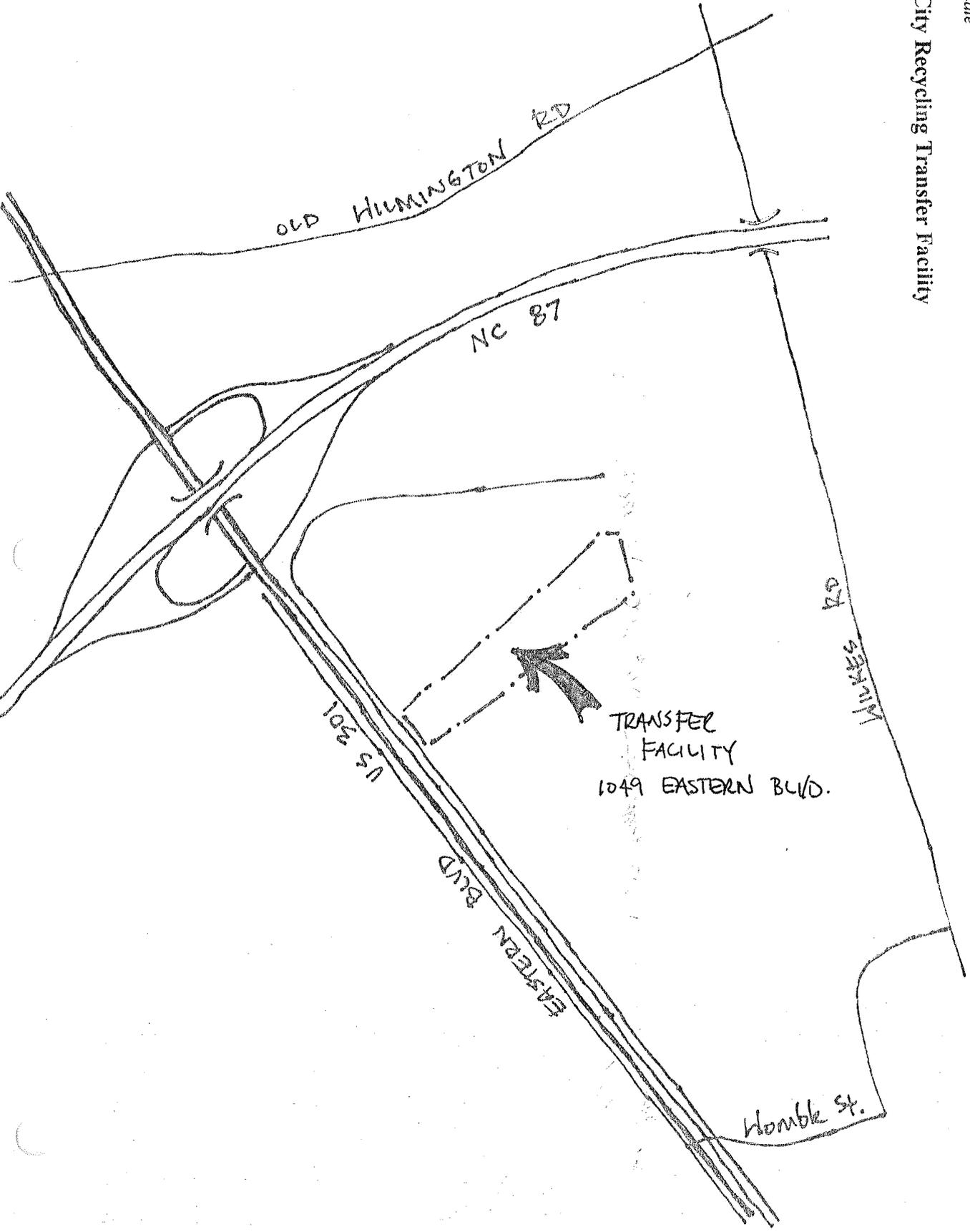
River City Recycling Transfer Facility



Appendix A-2

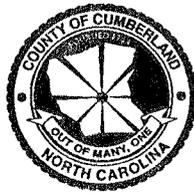
Area Specific Map
Not to Scale

River City Recycling Transfer Facility



Clifton McNeill, Jr.
Chair
Cumberland County

Charles C. Morris, Vice-Chair
Town of Linden
Lori Epler,
Roy Turner,
Dr. Marion Gillis-Olson
Cumberland County



COUNTY of CUMBERLAND
Planning and Inspections Department

Nancy Roy, AICP
Director
Thomas J. Lloyd,
Deputy Director

Joe W. Mullinax,
Town of Spring Lake
Donovan McLaurin,
Wade, Falcon & Godwin
Harvey Cain, Jr.,
Town of Stedman

June 28, 2005

Jim Barbour
NCDENR
Solid Waste Division
PO Box 27687
Raleigh NC 27611

Re: C & D Transfer Facility

Dear Mr. Barbour:

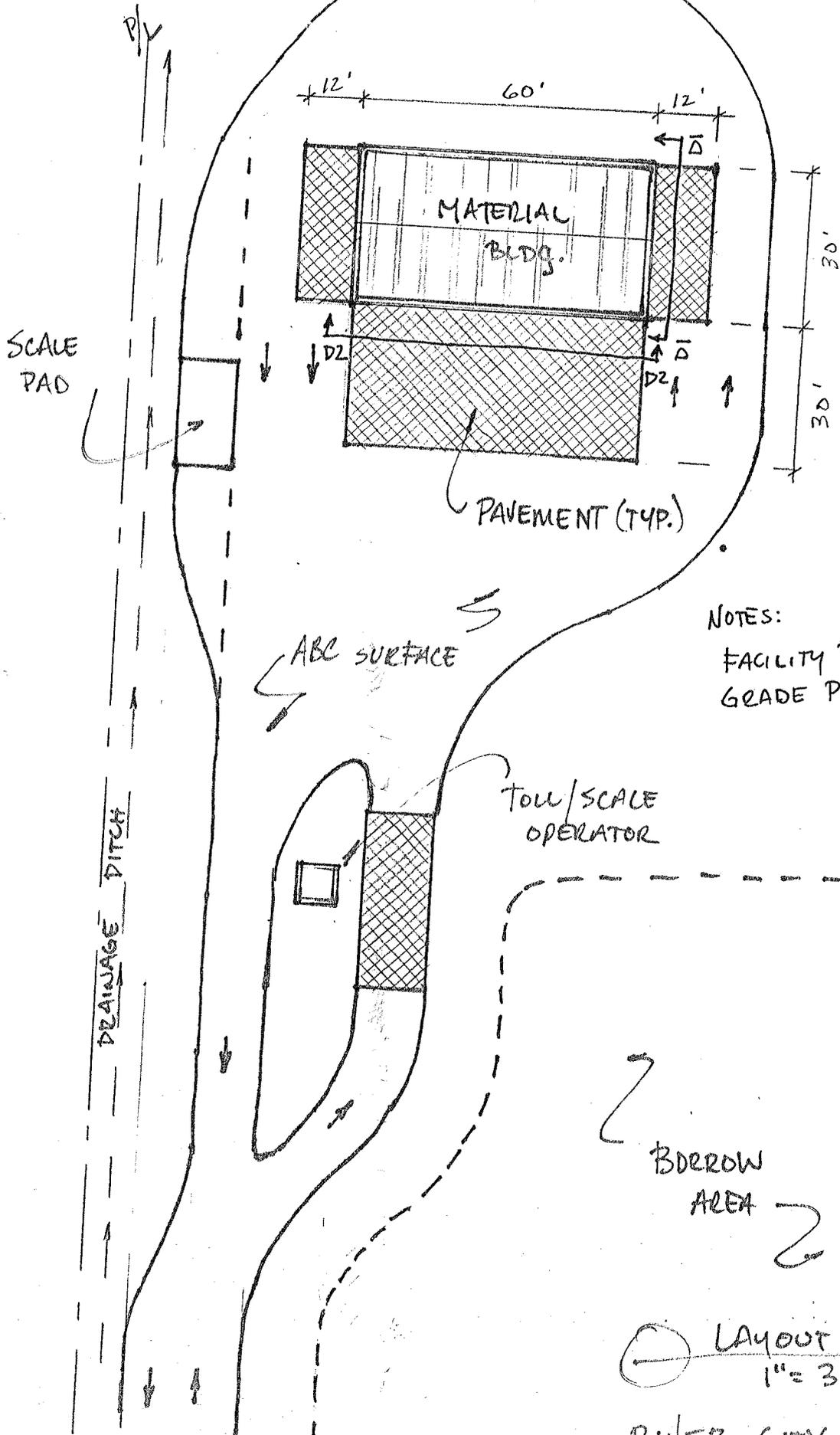
The property located at 1049 S. Eastern Boulevard, Fayetteville, North Carolina is within the Zoning Jurisdiction of The County of Cumberland. The property is currently Zoned M(P) – Planned Industrial. This is to certify that this project, proposed by Cape Fear Site Works, is allowed at this location under the current Zoning Ordinance criteria.

I hope this answers your questions. Please let me know if you need anything additional.

Sincerely,

Kenneth Sykes Jr.
Code Enforcement Coordinator

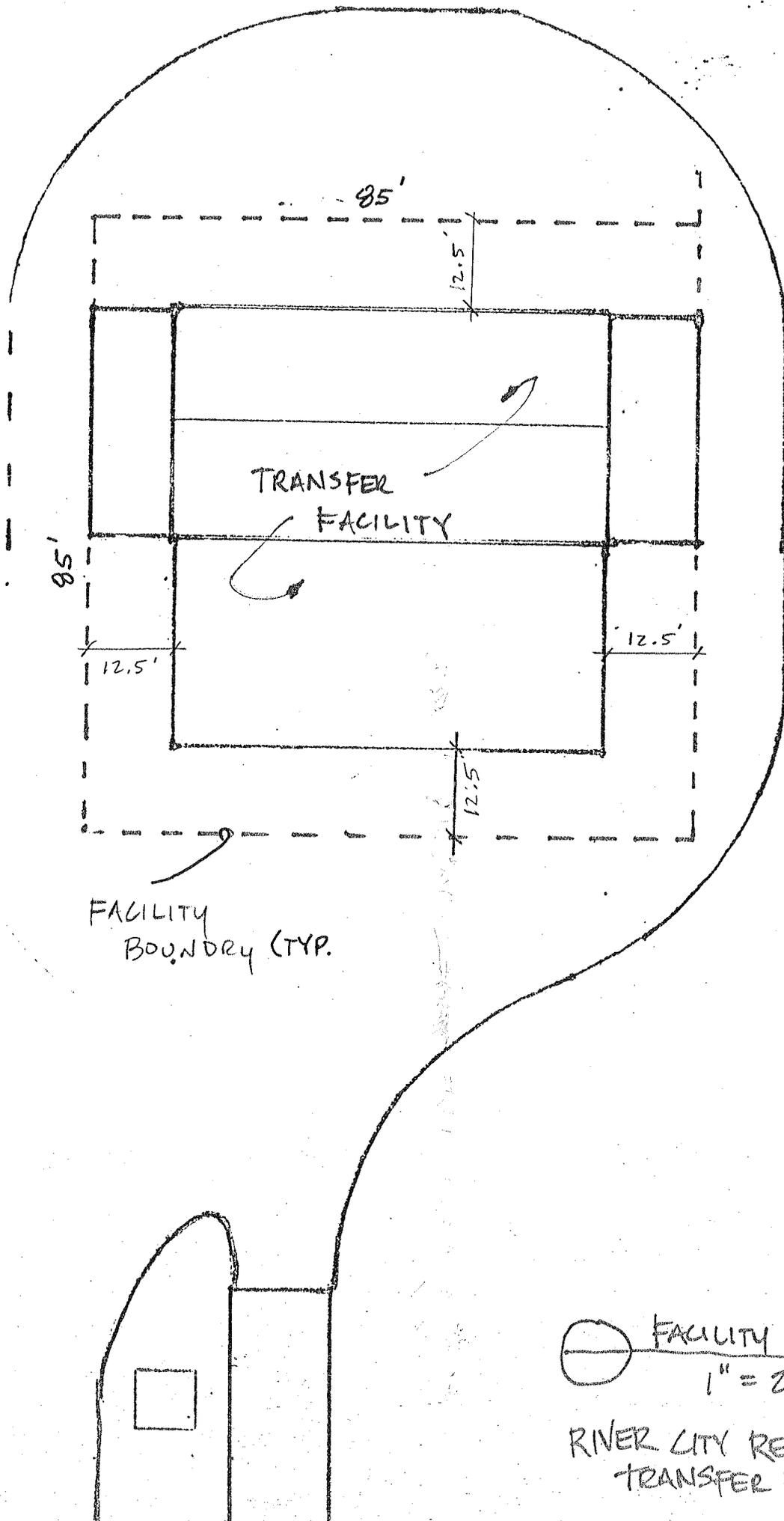
Appendix B



NOTES:
 FACILITY BOUNDARY - sheet C3
 GRADE PLAN - sheet C-4

LAYOUT PLAN
 1" = 30'

RIVER CITY RECYCLING
 TRANSFER FACILITY

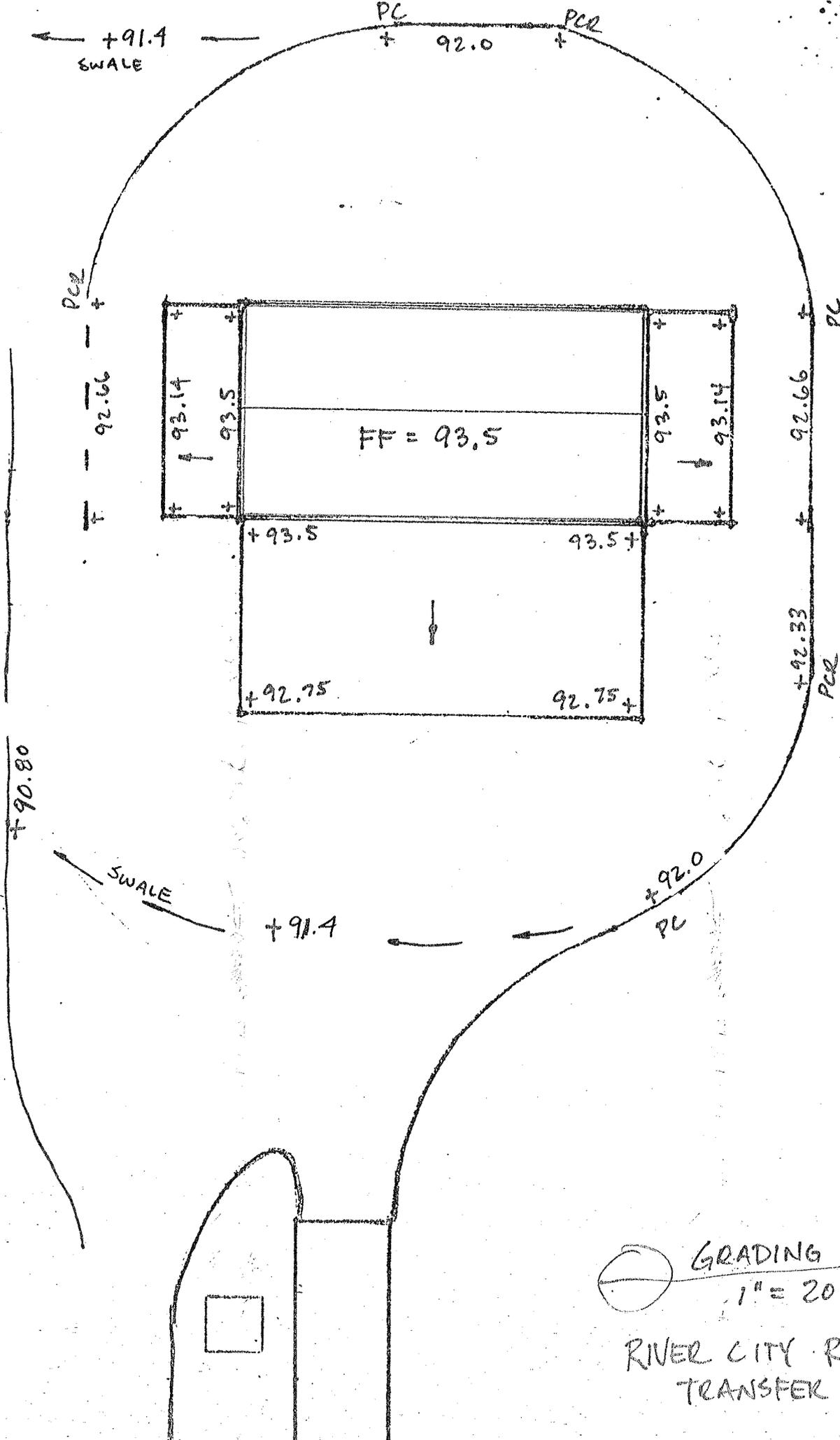


FACILITY BOUNDARY (TYP.)

TRANSFER FACILITY

○ FACILITY BOUNDARY PLAN
1" = 20'

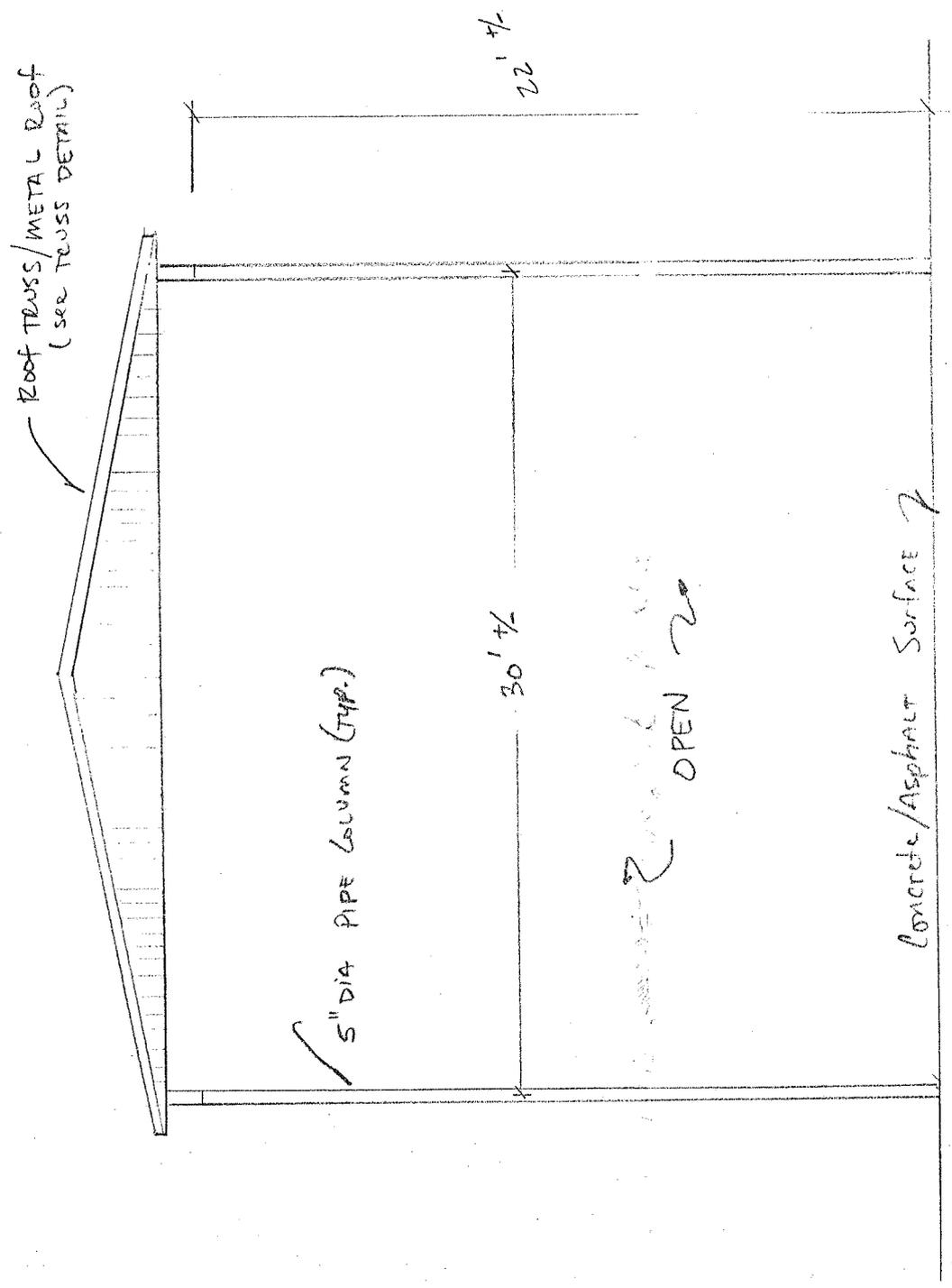
RIVER CITY RECYCLING
TRANSFER FACILITY



APPENDIX C-4

GRADING PLAN
 1" = 20'

RIVER CITY RECYCLING
 TRANSFER FACILITY

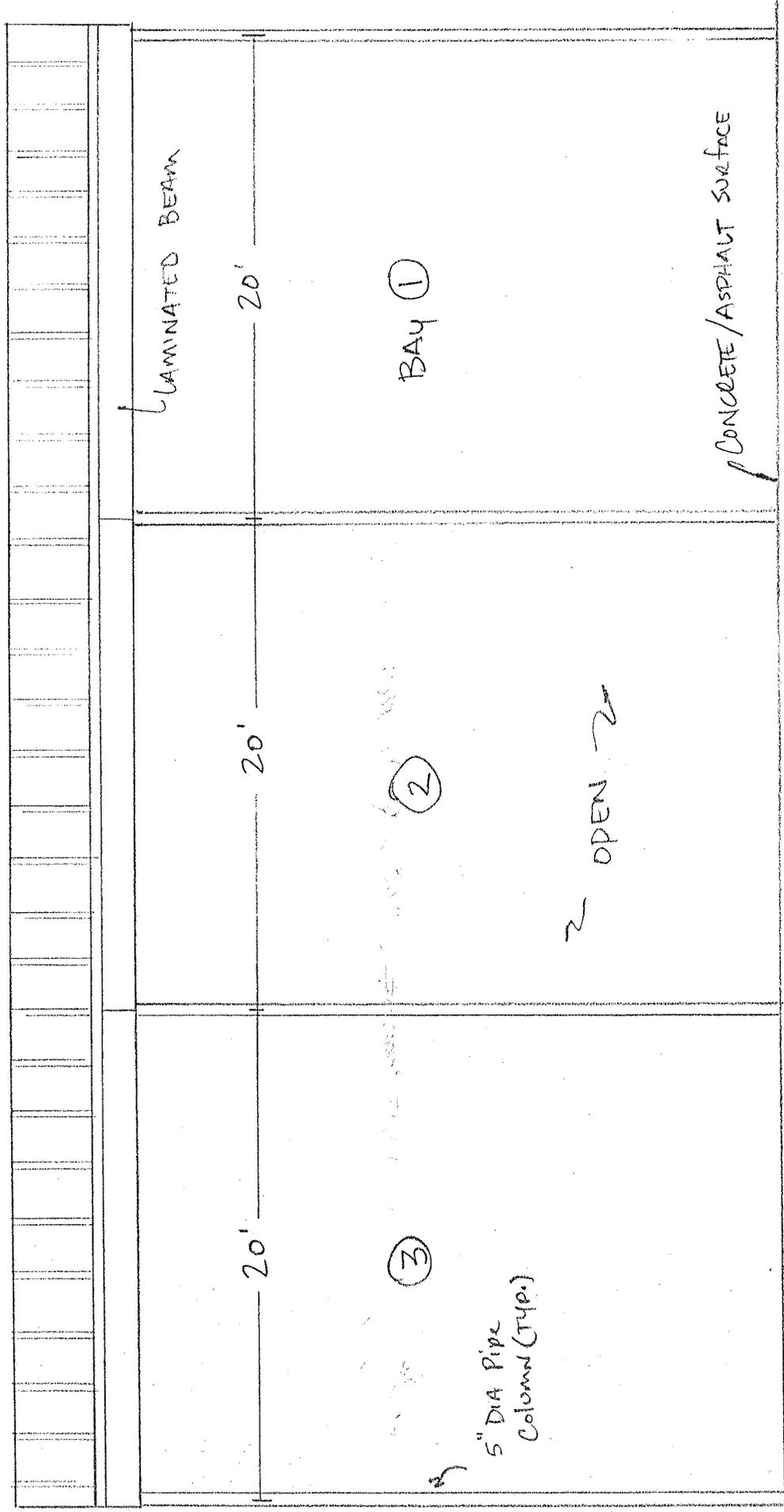


CAPE FEAR SITEWORKS INC
 1049 S. EASTERN BLVD
 FAYETTEVILLE NC 28301

SIDE ELEVATION
 NOT TO SCALE

TRANSFER STATION BLDG.

Roof Truss w/ Metal Roof
(SEE TRUSS DETAIL)



CAPE FEAR SITENWORKS / NC
1049 S. EASTERN BLVD
FAYETTEVILLE NC 28301

FRONT ELEVATION
NOT TO SCALE

TRANSFER STATION BUDG.

Job	Truss	Truss Type	Qty	Ply	CAPE FEAR SITEWORKS, INC. / CUMBERLAND
B53355	BA01	FINK	14	1	Job Reference (optional)

Comtech Inc, PO Box 40408, 910-864-8787

6.200 s Feb 21 2005 MiTek Industries, Inc. Wed Jun 29 15:59:30 2005 Page 1

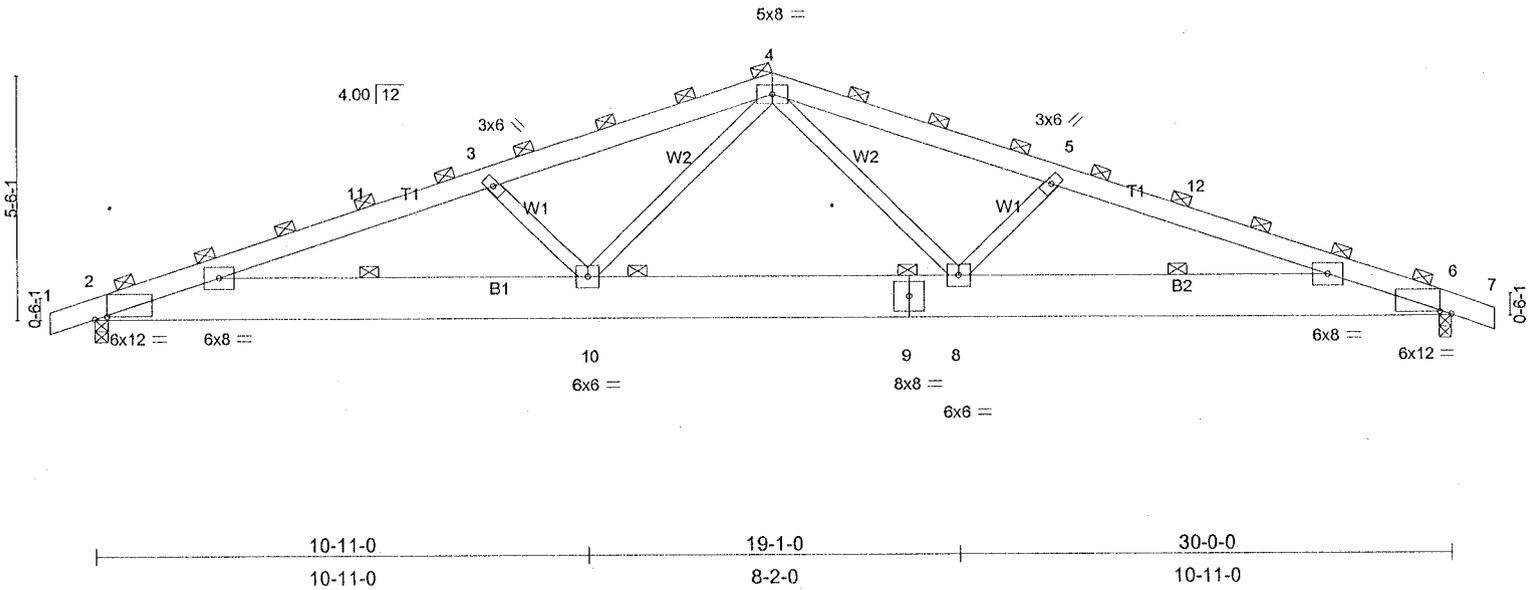


Plate Offsets (X,Y): [2:0-3-4,0-0-12], [6:0-3-4,0-0-12]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	4-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.33	Vert(LL) -0.27 8-10 >999 360		
TLL 0.0 *	Lumber Increase 1.15	WB 0.60	Vert(TL) -0.47 8-10 >758 240		
TDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.07 6 n/a n/a		
	Code IBC2003/TPI2002				Weight: 249 lb

LUMBER
 TOP CHORD 2 X 6 SYP No.1
 BOT CHORD 2 X 12 SYP 2250F 1.9E
 WEBS 2 X 4 SYP No.3

BRACING
 TOP CHORD 2-0-0 oc purlins (2-10-9 max.).
 BOT CHORD 6-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 4

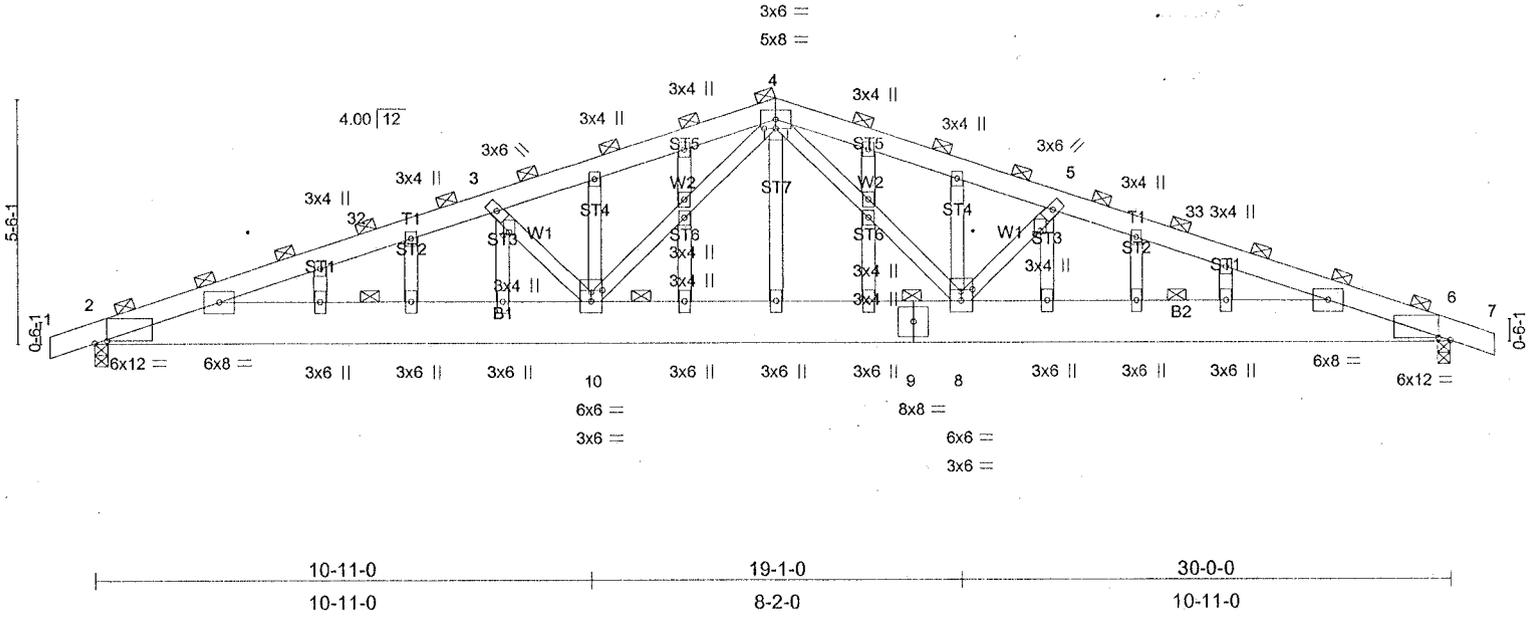
REACTIONS (lb/size) 2=2544/0-3-8, 6=2544/0-3-8
 Max Horz 2=195(load case 3)
 Max Uplift 2=-1359(load case 3), 6=-1359(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/59, 2-11=-6109/2835, 3-11=-5898/2864, 3-4=-5440/2565, 4-5=-5440/2568, 5-12=-5898/2866, 6-12=-6109/2837, 6-7=0/59
 BOT CHORD 2-10=-2644/5668, 9-10=-1512/3931, 8-9=-1512/3931, 6-8=-2452/5668
 WEBS 3-10=-997/939, 4-10=-823/1724, 4-8=-824/1724, 5-8=-997/940

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 100mph; h=20ft; TCDL=6.0psf; BCDL=3.0psf; Category II; Exp C; partially; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 - This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1359 lb uplift at joint 2 and 1359 lb uplift at joint 6.
 - This truss is designed in accordance with the 2003 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

Job B53355	Truss BA02	Truss Type FINK	Qty 2	Ply 1	CAPE FEAR SITEWORKS, INC. / CUMBERLAND
Comtech Inc, PO Box 40408, 910-864-8787					Job Reference (optional)



LOADING (psf)	SPACING 4-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.49	Vert(LL) 0.25 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.33	Vert(TL) -0.38 8-10 >940 240		
LL 0.0 *	Rep Stress Incr NO	WB 0.53	Horz(TL) 0.06 6 n/a n/a		
.DL 5.0	Code IBC2003/TPI2002	(Matrix)			Weight: 285 lb

LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.1	TOP CHORD 2-0-0 oc purlins (3-3-0 max.).
BOT CHORD 2 X 12 SYP 2250F 1.9E	BOT CHORD 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	JOINTS 1 Brace at Jt(s): 4
OTHERS 2 X 4 SYP No.3	

REACTIONS (lb/size) 2=2217/0-3-8, 6=2217/0-3-8
 Max Horz 2=195(load case 3)
 Max Uplift 2=-1359(load case 3), 6=-1359(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/59, 2-32=-5014/2835, 3-32=-4803/2864, 3-4=-4346/2565, 4-5=-4346/2568, 5-33=-4803/2866, 6-33=-5014/2837, 6-7=0/59
 BOT CHORD 2-10=-2644/4626, 9-10=-1512/3177, 8-9=-1512/3177, 6-8=-2452/4626
 WEBS 3-10=-996/939, 4-10=-823/1281, 4-8=-824/1281, 5-8=-996/940

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-02; 100mph; h=20ft; TCDL=6.0psf; BCDL=3.0psf; Category II; Exp C; partially; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
 - 4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 4-0-0 between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1359 lb uplift at joint 2 and 1359 lb uplift at joint 6.
 - 8) This truss is designed in accordance with the 2003 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

MS: 0.59
 VSI: 0.37

DESIGN CRITERIA
 LIVE LOAD = 20 PSF
 DEAD LOAD = 20 PSF
 TOTAL LOAD = 40 PSF
 ROOF LEFT SPAN CARR. : 0.01 FT
 ROOF RIGHT SPAN CARR. : 30.00 FT
 DEFLECTION CRITERIA :
 LIVE LOAD DEFL. : L / 360
 TOTAL LOAD DEFL. : L / 240

2 BEAMS 1.75 X 18.000 GL2950Fb-2.0E
 DESIGN CONSISTS OF 2 - PLIES FASTENED TOGETHER (REFER TO NOTES).

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UNIFORM	ROOF DEAD	TOP	300 PLF	00-00-00	20-00-00	0.90	
UNIFORM	BEAM WEIGHT		18 PLF	00-00-00	20-00-00	0.90	

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 ANCHOR GANG-LAM LVL ROOF BEAM SECURELY TO BEARINGS OR HANGERS.

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 NER 622
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 L.A. City RR 25167
 CCMC 11518-R
 WISCONSIN 200124-W
 N.Y. CITY MEA 97-94-E
 HUD MR 1214D

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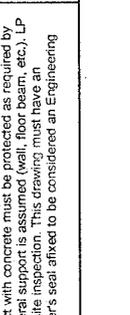
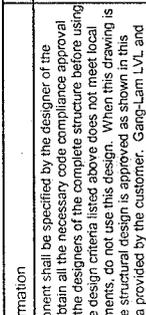
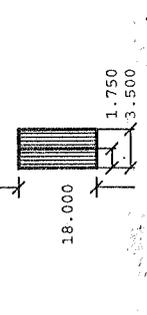
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DESIGN ASSUMES COMPONENTS CARRIED ARE APPLIED TO TOP EDGE OF GANG-LAM. SUCH THAT LOAD IS DISTRIBUTED EQUALLY TO EACH PLY. ATTACH THE TWO PLIES WITH 3 ROWS OF 16d (3-1/2") NAILS AT 12" OC. STAGGER ROWS. NAILS CAN BE DRIVEN FROM ONE FACE OR HALF FROM EACH FACE. NAILS MAY BE COMMON OR BOX NAILS WITH A MINIMUM SHANK DIAMETER OF 0.131". 16d SINKERS (3-1/4") MAY BE USED, BUT HALF MUST BE DRIVEN FROM EACH FACE.

SUPPORT REACTIONS (LBS):
 CASE BEARING NUMBER
 1 6181 6181
 2 3181 3181
 MIN BEARING SIZES (IN-SX)
 5- 0 5- 0



MAXIMUM DEFLECTIONS	
LIVE LOAD	0.29"
*DEAD LOAD	0.46"
TOTAL LOAD	0.50"

Handling & Erection
 Temporary and permanent bracing for holding component plumb and for resisting lateral forces shall be designed and installed by others. No loads are to be applied to the component until after all the framing and fastening are completed. At no time shall loads greater than design loads be applied to the component.

Design Criteria
 The design and material specified are in substantial conformity with the latest revisions of NDS and AITC. * Dead load deflection includes adjustment factor for creep. Total load deflection is instantaneous.

Miscellaneous Information
 The use of this component shall be specified by the designer of the complete structure. Obtain all the necessary code compliance approval and instructions from the designers of the complete structure before using this component. If the design criteria listed above does not meet local building code requirements, do not use this design. When this drawing is signed and sealed, the structural design is approved as shown in this drawing based on data provided by the customer. Gang-Lam LVL and CTR, LPI Joists are made without camber and will deflect under load. Wood in direct contact with concrete must be protected as required by code. Continuous lateral support is assumed (wall, floor beam, etc.). LP does not provide on-site inspection. This drawing must have an Architect's or Engineer's seal affixed to be considered an Engineering document.

Gang-Lam LVL and CTR, LPI Joist Specifications
 * Supports and connections for Gang-Lam LVL and CTR, LPI Joists to be specific applications.
 * Common nails driven parallel to glue lines shall be spaced a minimum of 4" for 10d and 3" for 8d.
 * Do not cut, notch, drill or alter Gang-Lam LVL and CTR, LPI Joists except as shown in published material from LP any use of Gang-Lam LVL and CTR, LPI Joists contrary to the limits set forth herein, negates any express warranty of the product and LP disclaims all implied warranties including the implied warranties of merchantability and fitness for a particular use.
 * A COPY OF THIS DRAWING IS TO BE GIVEN TO THE INSTALLING CONTRACTOR
 LP is a registered trademark of Louisiana-Pacific Corporation.

Software Provided By:
 LP Engineered Wood Products
 2706 Highway 421 North
 Wilmington, NC 28401
 Local 910.762.9878
 National Wats 800.989.9105

09/29/05 ICC
 DWS #
 SHEET #

US 301 / BUS 95 200' RIGHT OF WAY

SERVICE ROAD

ACCESS CONTROL GATE

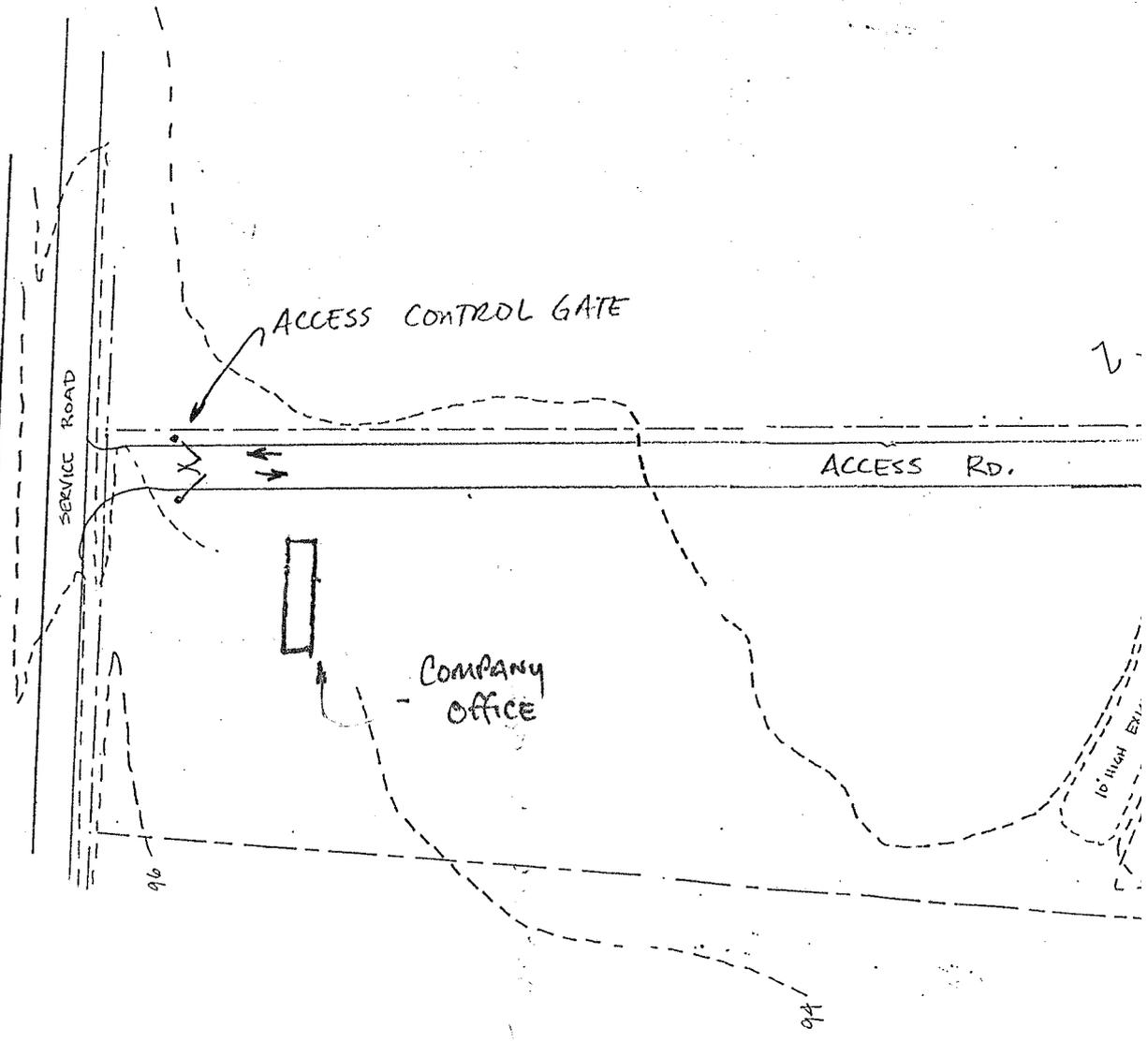
ACCESS RD.

COMPANY OFFICE

TO LIGHT ENTR.

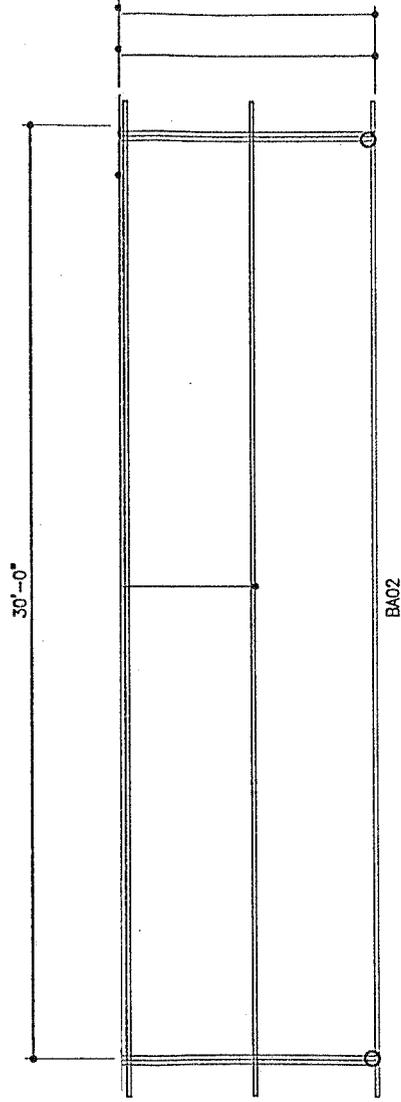
96

94





ENGINEERED TRUSSES & BEAMS
REILLY ROAD INDUSTRIAL PARK
FAYETTEVILLE, NC 28304
PHONE: (910) 864-9787
FAX: (910) 864-4444



CAPE FEAR SITEMORKS, INC.
1049 SOUTHEASTERN BLVD, FAYETTEVILLE, NC

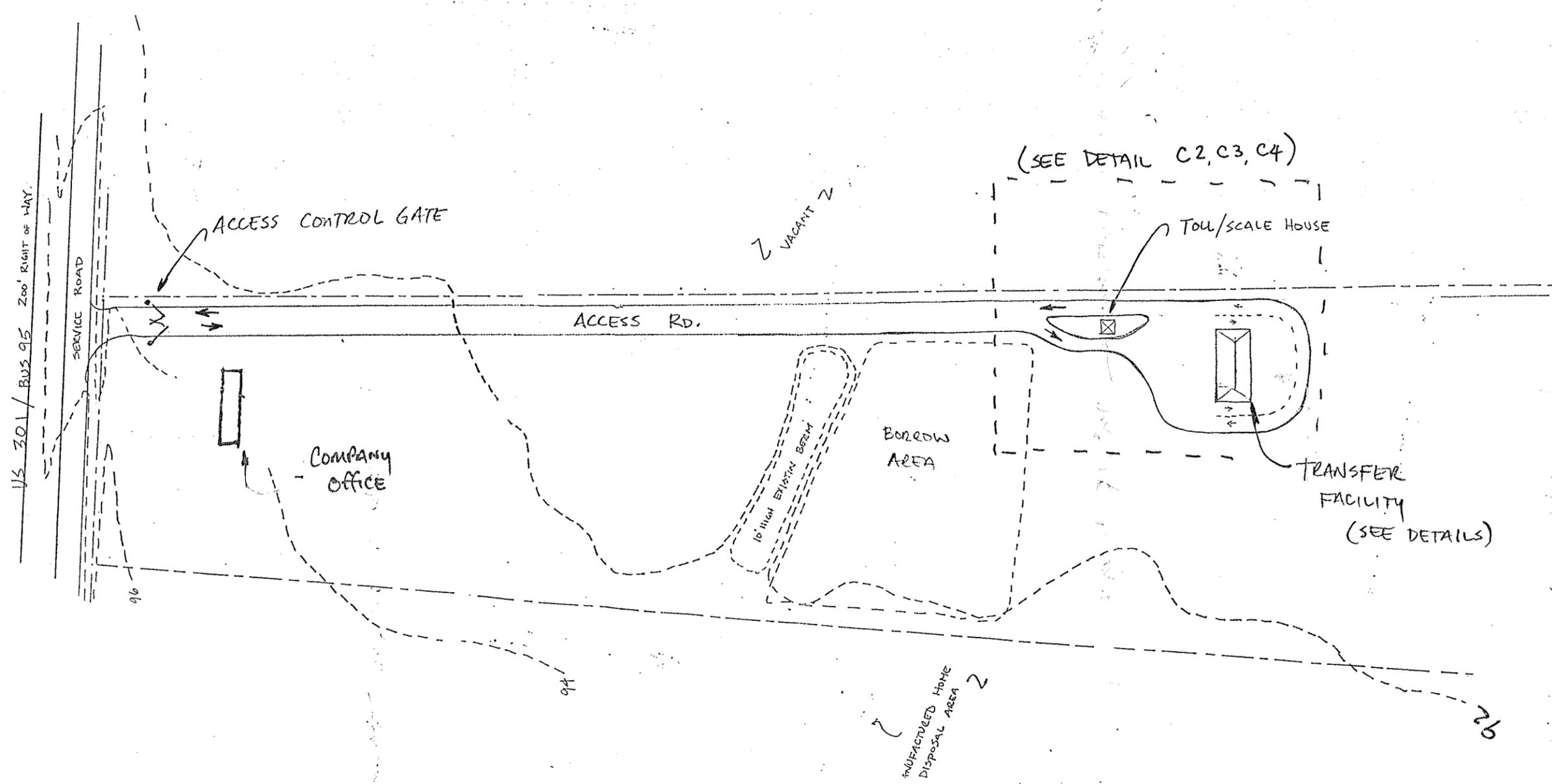
ROOF FRAMING PLAN

SCALE:
NTS

DATE:
29 JUNE 2005

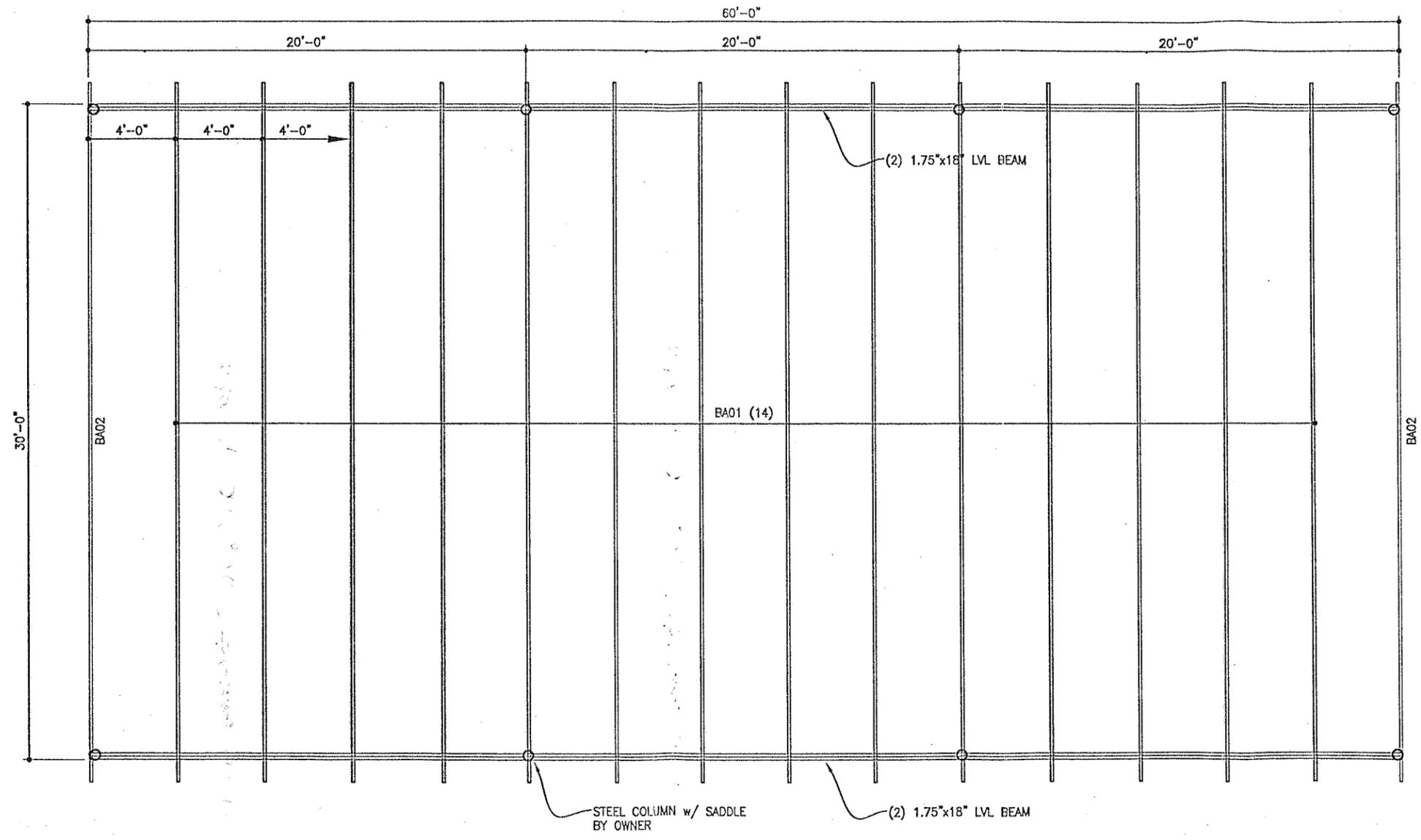
PLAN NO:
B53355

SHEET NO:
T.1




GENERAL SITE PLAN
 1" = 50'

RIVER CITY RECYCLING
 TRANSFER FACILITY



CAPE FEAR SITENORKS, INC.
1049 SOUTHEASTERN BLVD, FAYETTEVILLE, NC

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SCALE: NTS

DATE: 29 JUNE 2005

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