



Location
515 Walnut Street

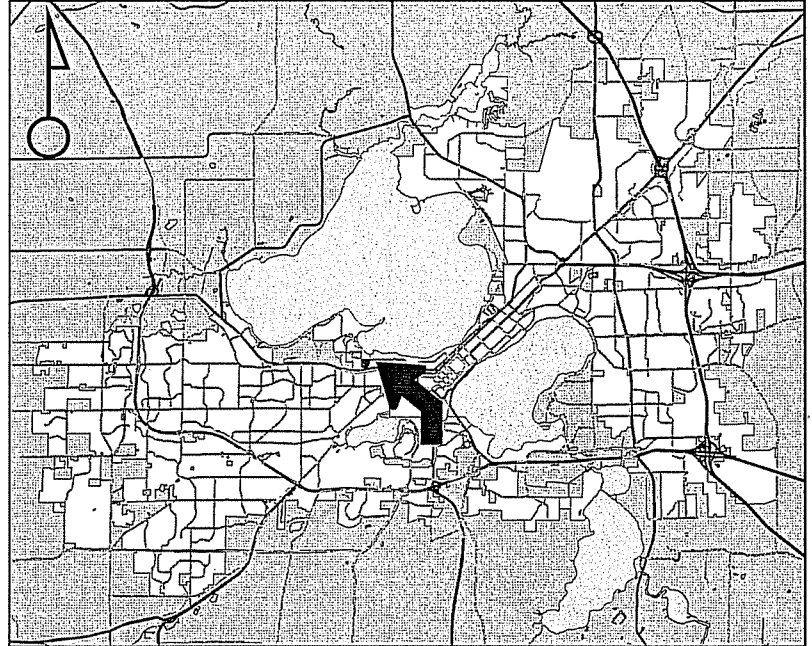
Project Name
West Campus Cogeneration Facility

Applicant
Board of Regents of the UW System/
Gary A. Brown - UW-Madison

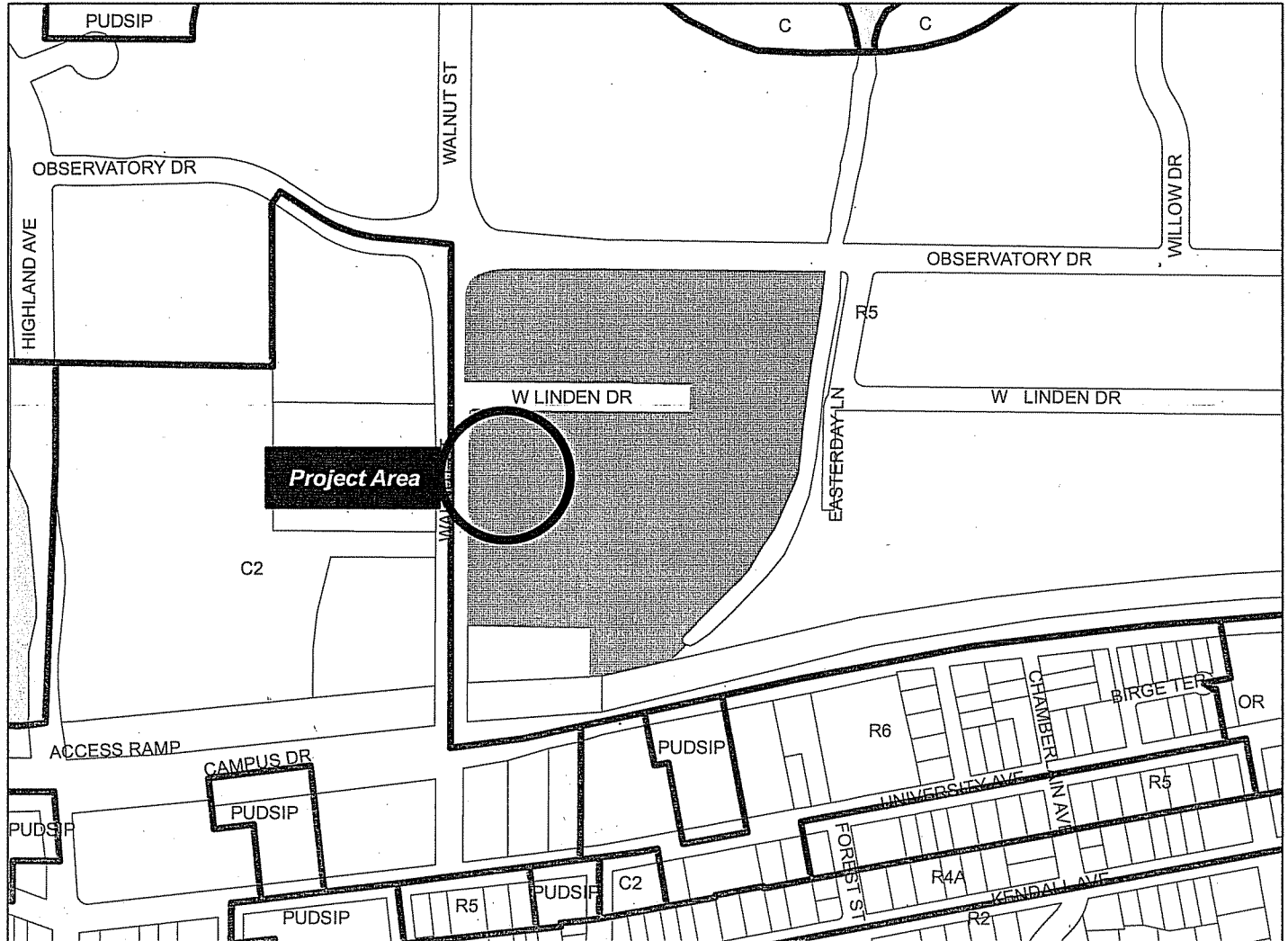
Existing Use
West Campus Cogeneration Facility

Proposed Use
Construct 42,500 square-foot
addition to West Campus
Cogeneration Facility

Public Hearing Date
Plan Commission
23 April 2012

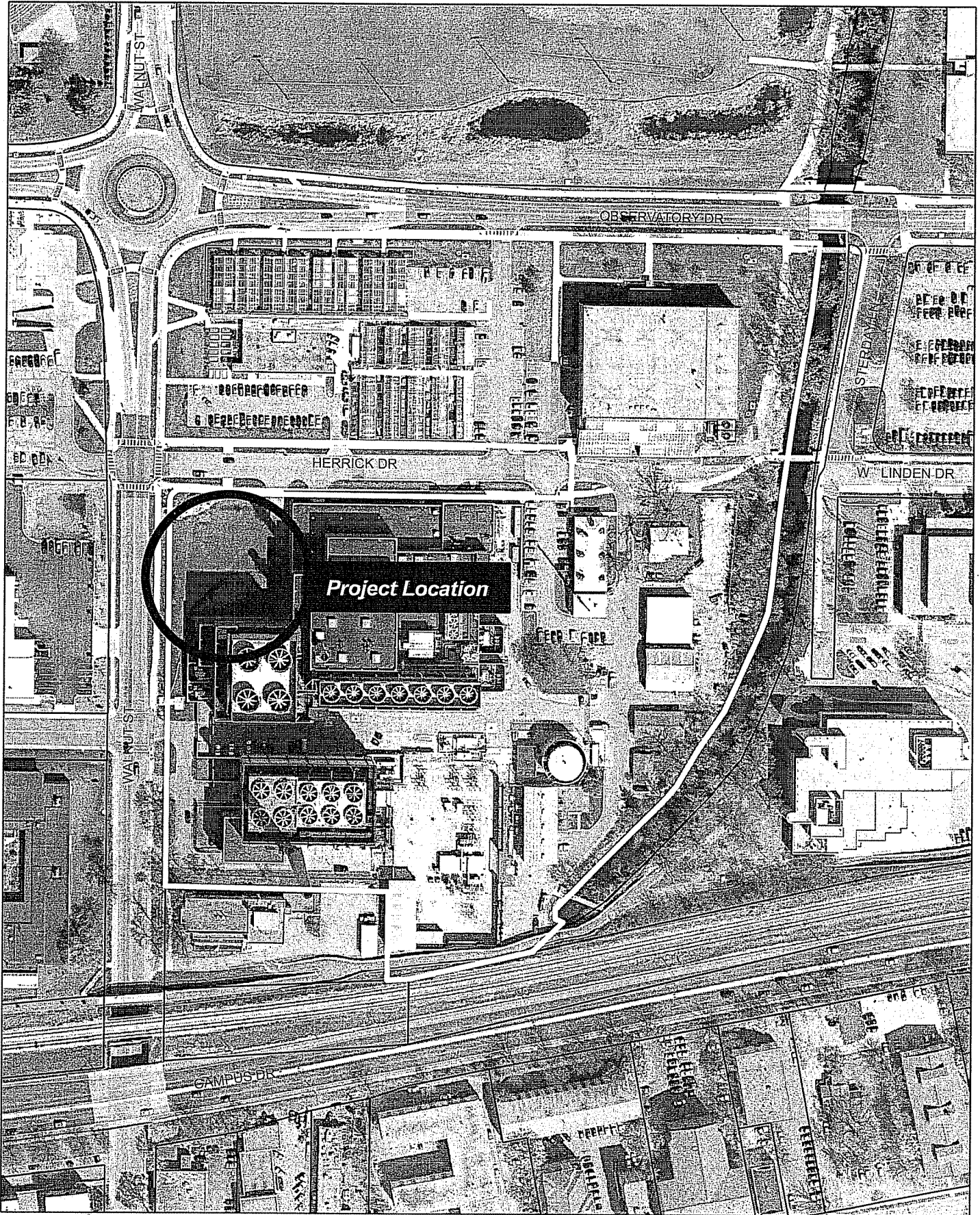


For Questions Contact: Kevin Firchow at: 267-1150 or kfirchow@cityofmadison.com or City Planning at 266-4635



Scale : 1" = 400

City of Madison, Planning Division : RPJ : Date : 09 April 2012





LAND USE APPLICATION Madison Plan Commission

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

- The following information is required for all applications for Plan Commission review except subdivisions or land divisions, which should be filed with the Subdivision Application.
- Before filing your application, please review the information regarding the **LOBBYING ORDINANCE** on the first page.
- Please read all pages of the application completely and fill in all required fields.
- This application form may also be completed online at www.cityofmadison.com/planning/plan.html *at get for Rec How*
- All Land Use Applications should be filed directly with the Zoning Administrator.

FOR OFFICE USE ONLY:	
Amt. Paid	<u>NO FEE STATE</u> Receipt No. _____
Date Received	<u>3/6/12</u>
Received By	<u>MDP</u>
Parcel No.	<u>0709-153-0401-1</u>
Aldermanic District	<u>5 BIDAR-SIELAFF</u>
GQ	<u>Ex. CUP</u>
Zoning District	<u>R5</u>
For Complete Submittal	
Application	Letter of Intent <input checked="" type="checkbox"/>
IDUP	Legal Descript. <input checked="" type="checkbox"/>
Plan Sets	Zoning Text <input checked="" type="checkbox"/>
Alder Notification	Waiver _____
Ngrbrhd. Assn Not.	<u>1/26/12</u> Waiver _____
Date Sign Issued	_____

1. **Project Address:** 515 Walnut Street **Project Area in Acres:** _____
Project Title (if any): West Campus Cogeneration Facility and Chiller Installation

2. This is an application for:

Zoning Map Amendment (check the appropriate box(es) in only one of the columns below)

<input type="checkbox"/> Rezoning to a Non-PUD or PCD Zoning Dist.: Existing Zoning: _____ to _____ Proposed Zoning (ex: R1, R2T, C3): _____	Rezoning to or Amendment of a PUD or PCD District: <input type="checkbox"/> Ex. Zoning: _____ to PUD/PCD-GDP <input type="checkbox"/> Ex. Zoning: _____ to PUD/PCD-SIP <input type="checkbox"/> Amended Gen. Dev. <input type="checkbox"/> Amended Spec. Imp. Plan
<input checked="" type="checkbox"/> Conditional Use	<input type="checkbox"/> Demolition Permit
<input type="checkbox"/> Other Requests (Specify): _____	

3. **Applicant, Agent & Property Owner Information:**

Applicant's Name: Gary A. Brown Company: University of Wisconsin-Madison
Street Address: 610 Walnut Street City/State: Madison, WI Zip: 53726
Telephone: (608) 263-3023 Fax: (608) 265-3139 Email: gbrown@fpm.wisc.edu

Project Contact Person: Gary A. Brown Company: University of Wisconsin-Madison
Street Address: 610 Walnut Street City/State: Madison, WI Zip: 53726
Telephone: (608) 263-3023 Fax: (608) 265-3139 Email: gbrown@fpm.wisc.edu

Property Owner (if not applicant): Board of Regents of the UW System
Street Address: 1220 Linden Drive City/State: Madison, WI Zip: 53706

4. **Project Information:**

Provide a brief description of the project and all proposed uses of the site: _____
42,500 sft expansion with 6 additional chillers (installed in phases) and chiller water piping connection to Observatory Dr

Development Schedule: Commencement November, 2012 Completion December, 2014

5. Required Submittals:

- Plans** submitted as follows below and depicts all lot lines; existing, altered, demolished or proposed buildings; parking areas and driveways; sidewalks; location of any new signs; existing and proposed utility locations; building elevations and floor plans; landscaping, and a development schedule describing pertinent project details:
 - **7 copies** of a full-sized plan set drawn to a scale of one inch equals 20 feet (collated and folded)
 - **7 copies** of the plan set reduced to fit onto 11 inch by 17 inch paper (collated, stapled and folded)
 - **1 copy** of the plan set reduced to fit onto 8 ½ inch by 11 inch paper
- Letter of Intent (12 copies):** describing this application in detail including, but not limited to: existing conditions and uses of the property; development schedule for the project; names of persons involved (contractor, architect, landscaper, business manager, etc.); types of businesses; number of employees; hours of operation; square footage or acreage of the site; number of dwelling units; sale or rental price range for dwelling units; gross square footage of building(s); number of parking stalls, etc.
- Legal Description of Property:** Lot(s) of record or metes and bounds description prepared by a land surveyor. For any application for rezoning, the description must be submitted as an electronic word document via CD or e-mail. For applications proposing rezoning to more than one district, a separate description of each district shall be submitted.
- Filing Fee: \$ DNA** See the fee schedule on the application cover page. Make checks payable to: *City Treasurer*.
- Electronic Submittal:** All applicants are required to submit copies of all items submitted in hard copy with their application (including this application form, the letter of intent, complete plan sets and elevations, etc.) as Adobe Acrobat PDF files on a non-returnable CD to be included with their application materials, or in an e-mail sent to pccapplications@cityofmadison.com. The e-mail shall include the name of the project and applicant. Applicants unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.

In Addition, The Following Items May Also Be Required With Your Application:

- For any applications proposing demolition or removal of existing buildings, the following items are required:
 - Prior to the filing of an application, the applicant or his/her agent is required to notify a list of interested persons registered with the City **30 or 60 days prior to filing** their application using the online notification tool found at: <https://www.cityofmadison.com/developmentCenter/demolitionNotification/>
 - A photo array (6-12 photos) of the **interior and exterior** of the building(s) to be demolished or removed. A written assessment of the condition of the building(s) to be demolished or removed is highly recommended.
 - Note: A Reuse and Recycling Plan approved by the City's Recycling Coordinator is required prior to issuance of wrecking permits and the start of construction.
- Zoning Text (12 copies):** must accompany Planned Community or Planned Unit Development (PCD/PUD) submittals.

6. Applicant Declarations:

- Conformance with adopted City plans:** Applications shall be in accordance with all adopted City of Madison plans:
 - The site is located within the limits of 2005 Campus Plan Plan, which recommends: _____ for this property.
- Pre-application Notification:** Section 28.12 of the Zoning Code requires that the applicant notify the district alder and any nearby neighborhood & business associations in writing no later than **30** days prior to filing this request:
 - List below the Alderperson, Neighborhood Association(s), Business Association(s) AND dates you sent the notices:
 - Joint West Campus Area Planning meetings 1/26/12 ; _____
 - NOTE: If the alder has granted a waiver to this requirement, please attach any such correspondence to this form.
- Pre-application Meeting with staff:** Prior to preparation of this application, the applicant is required to discuss the proposed development and review process with Zoning and Planning Division staff; note staff persons and date.
 - Planning Staff: Tim Parks Date: 2/16/12 Zoning Staff: Brad Murphy Date: 2/16/12
- Check here if this project will be receiving a public subsidy.** If so, indicate type in your Letter of Intent.

The signer attests that this form is accurately completed and all required materials are submitted:

Printed Name GARY A. BROWN Date 03/06/12
 Signature Gary A Brown Relation to Property Owner Owner's Rep.
 Authorizing Signature of Property Owner Gary A Brown Date 03/06/12



WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

March 7, 2012

Mr. Matthew Tucker
City of Madison Zoning Administrator
215 Martin Luther King Jr. Blvd
Rm. LL-100, Municipal Bldg
Madison, WI 53710

**RE: CONDITIONAL USE APPLICATION – Letter of Intent
 WEST CAMPUS COGENERATION FACILITY ADDITION
 AND CHILLER INSTALLATION
 515 Walnut Street
 University of Wisconsin-Madison**

Dear Mr. Tucker:

This is an application for a Conditional Use request for a proposed 42,500 gross square foot addition to the northwest corner of the West Campus Cogeneration Facility. The expansion will accommodate 6 additional chillers. Two of the six chillers will be installed in this phase with four chillers planned for the future. The West Campus Cogeneration Facility (parcel # 0709-153-0401-1) is located at 515 Walnut Street and is zoned R-5. This application is being submitted for Plan Commission action at their April 23, 2012 meeting. Construction of the improvements is scheduled to begin November 2012 and be completed in December 2014. All land is owned by the Board of Regents of the University of Wisconsin System.

Application Materials

Zoning Application
Plans (7full size copies, 7 reduced size 11" x 17" copies, 1 letter size copy)
Letter of Intent (12 copies)
Legal Description

Project Participants

Owner: **State of Wisconsin**
 Agency: University of Wisconsin System
 Board of Regents
 Room 1860 Van Hise Hall
 1220 Linden Drive
 Madison, Wisconsin 53706

Owner's Contact: **University of Wisconsin – Madison**
 Facilities Planning and Management
 919 WARF Building
 610 Walnut Street
 Madison, Wisconsin 53726
 Phone: 608-263-3023
 Fax: 608-265-3139
 Attn: Gary Brown
 E-Mail: gbrown@fpm.wisc.edu

Facilities Planning & Management

9th Floor WARF Building 610 Walnut Street Madison, Wisconsin 53726-2397
(608) 263-3000 FAX (608) 265-3139 TTY (608) 265-5147

**Project Manager/
MEP Engineer:** **Affiliated Engineers, Inc.**
5802 Research Park Boulevard
Madison, Wisconsin 53719
Phone: 608-236-1249
Fax: 608-236-2614
Attn: Scott Moll
E-Mail: smoll@aeieng.com

Architect: **Potter Lawson, Inc.**
15 Ellis Potter Court
P.O. Box 44964 (53744-4964)
Madison, Wisconsin 53711
Phone: 608-274-2741
Fax: 608-274-3674
Attn: Jim Moravec
E-Mail: jimm@potterlawson.com

Civil Engineer: **Ayres Associates, Inc.**
1802 Pankratz Street
Madison, WI 53704
Phone: 608-443-1257
Fax: 608-443-1250
Attn: Kristine Anderson
E-Mail: andersonk@ayresassociates.com

Landscape Architect: **JSD Professional Services, Inc.**
161 Horizon Drive, Suite 101
Verona, Wisconsin 53593
Phone: 608-848-5060
Fax: 608-848-2255
Attn: Mike Schmeltzer
E-Mail: mike.schmeltzer@jsdinc.com

Building Use, Area, and Occupancy

Project Background:

UW-Madison currently owns and operates two central heating/cooling plants, the Charter Street Heating Plant (CSHP) and the Walnut Street Heating Plant (WSHP). UW-Madison also shares ownership of the West Campus Cogeneration Facility (WCCF) with Madison Gas & Electric. The current chilled water load on campus is approximately 62,000 tons and is estimated to be about 107,000 tons by 2035 based on the current projected growth of university facilities. Presently, the combined chilled water maximum capacity of all three plants is approximately 66,000 tons and the forecasted campus cooling loads are expected to exceed campus chiller capacity in 2013. The original WCCF design designated a site for future expansion of the plant, provided a plan to install additional chillers, and included provisions for connections to the existing campus chilled water distribution system. The original WCCF was approved under an order by the Public Service Commission and therefore did not require city of Madison zoning approval. A Memorial Of Understanding was signed by UW-Madison, MG&E and the Regent Neighborhood Association concerning the development and operation of the WCCF.

Project Description:

The West Campus Cogeneration Facility is located in the southeast corner of Walnut Street and Linden Drive. The site is zoned R-5, general residential. The WCCF Addition and Chiller Installation project includes construction of a 42,500 GSF addition to the northwest corner of the existing West Campus Cogeneration Facility. The addition will be a steel framed structure that will tie into the north and west faces of the existing facility. The building façade and exterior concepts will be consistent with the architecture of the existing building.

The building addition will be sized to handle a total chilled water capacity expansion of 30,000 tons though only 10,000 tons will be installed in this initial phase. New chilled water distribution piping will extend underground from the north face of the new addition to the north and east along Linden Drive and north between the existing campus greenhouses and Biotron Facility to existing connections just south of Observatory Drive. The piping will be sized to handle the full 30,000 ton build-out capacity of the plant addition.

Makeup water for the cooling towers will be extended from the existing lake water piping in Linden Drive, with City of Madison Water Utility domestic water as the backup water source. A new sanitary sewer system will route to existing sanitary utilities within the street. Building and site stormwater will route to existing private (UW) stormwater utilities within the street.

No new employees will be needed for the addition so there will be no traffic or parking impacts. Lighting and signage for the new facility will be in conformance with Campus standards. All maintenance will be performed by UW Facilities Staff including trash and recycling removal.

Noise

A Memorandum of Understanding between the Regent Neighborhood Association, Inc. and the UW/DOA and MGE dated June 3, 2003, established six noise monitoring locations in the area surrounding the WCCF and established a goal of no increase in perceptible noise at those locations generated by the energy facility during its operation. Ambient noise studies at these locations were conducted in 2003 (pre-WCCF construction), 2005 (post-WCCF construction) and in winter 2011 to establish the latest baseline conditions for the project at various stages. A 2012 noise study by Wise Associates indicates the current existing background noise levels at some of the noise receptors are above the MOU standards without WCCF operations. While this project may contribute to an increase in ambient noise levels at the nearest receptor across Walnut Street, no increase is expected at the more remote receptor locations in the Regent neighborhood above the current sound levels.

Sound attenuation devices will be incorporated into the design. This may include shrouds on the equipment, screens around the cooling towers or absorptive measures near exterior penetrations like louvers and dampers and the use of large fans on the roof of the addition to direct sound vertically instead of horizontally. The plant expansion and equipment will contain additional or different noise attenuation devices compared to the original plant construction to adequately comply with the noise reduction requirements.

Air

The existing WCCF has an air permit that regulates air emissions from the existing two exhaust stacks and three cooling towers. As part of the permitting process, MGE implemented best available control technology (BACT) to limit the facility's air emissions. Extensive modeling was performed as part of the original permitting process to ensure that emissions from the facility met National Ambient Air Quality Standards and requirements established in the MOU discussed above. The existing facility has obtained and met all permitting requirements to date.

The proposed expansion includes two new cooling towers to be constructed in phases. The cooling towers will be the only source of new air emissions for the project and are subject to particulate matter emissions standards. Calculations completed for the new towers show the estimated emission increase will likely not trigger the need for an air quality construction permit from the Wisconsin Department of Natural Resources (WDNR). However, the design team is coordinating with WDNR for these aspects.

Hours of Operation

WCCF is operational 24 hours a day, 7 days a week. All maintenance inside and around the site of the facility, including snow removal, will be provided by the UW-Madison Facilities Planning & Management staff or under contract by WCCF. Trash removal is also handled by campus facilities staff.

Project Schedule:

Start Construction: November 2012
Substantial completion: December 2014

The project was presented to the City of Madison Development Assistance Team on February 16, 2012 and to the Joint West Campus Area Committee for informational purposes on January 26, 2012.

Legal Description of Site - See attached.

Please contact me at 608-263-3023 if you have any questions or need further information.

Thank you,



Gary A. Brown, FASLA
Director, Campus Planning & Landscape Architecture
Facilities Planning & Management, University of Wisconsin-Madison

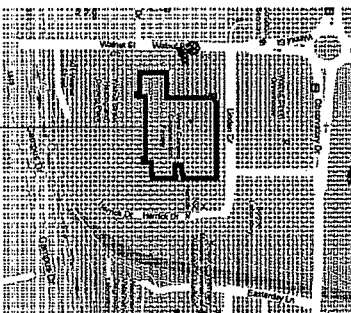
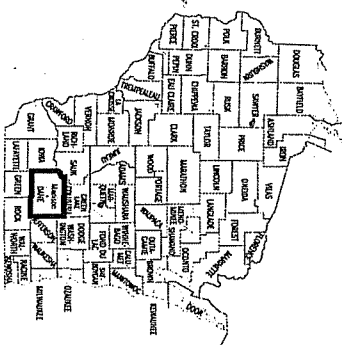
cc: John Harrod, UW-Madison FP&M Project Manager Alder Shiva Bidar-Sielaff, District 5
Mark Zaccagnino, DOA/DSF Project Manager

WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION

UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN

515 WALNUT STREET
MADISON, WISCONSIN

STATE OF WISCONSIN - DIVISION OF STATE FACILITIES
DSF Project No. 10K11H



West Campus
Cogeneration Facility

CONDITIONAL USE PERMIT APPLICATION

MARCH 7, 2012

CONSULTANTS

ARCHITECT

Affiliated Engineers, Inc.
Affiliated Engineers, Inc.
5302 Research Park Boulevard
Madison, WI 53719
Tel: 608.238.2816 Fax: 608.238.2814

ARCHITECT

Potter Lawson
Potter Lawson
Success by Design

LANDSCAPE

JSD Professional Services, Inc.
JSD Professional Services, Inc.
1000 W. Johnson Drive
Madison, WI 53706
Tel: 608.238.2816 Fax: 608.238.2814

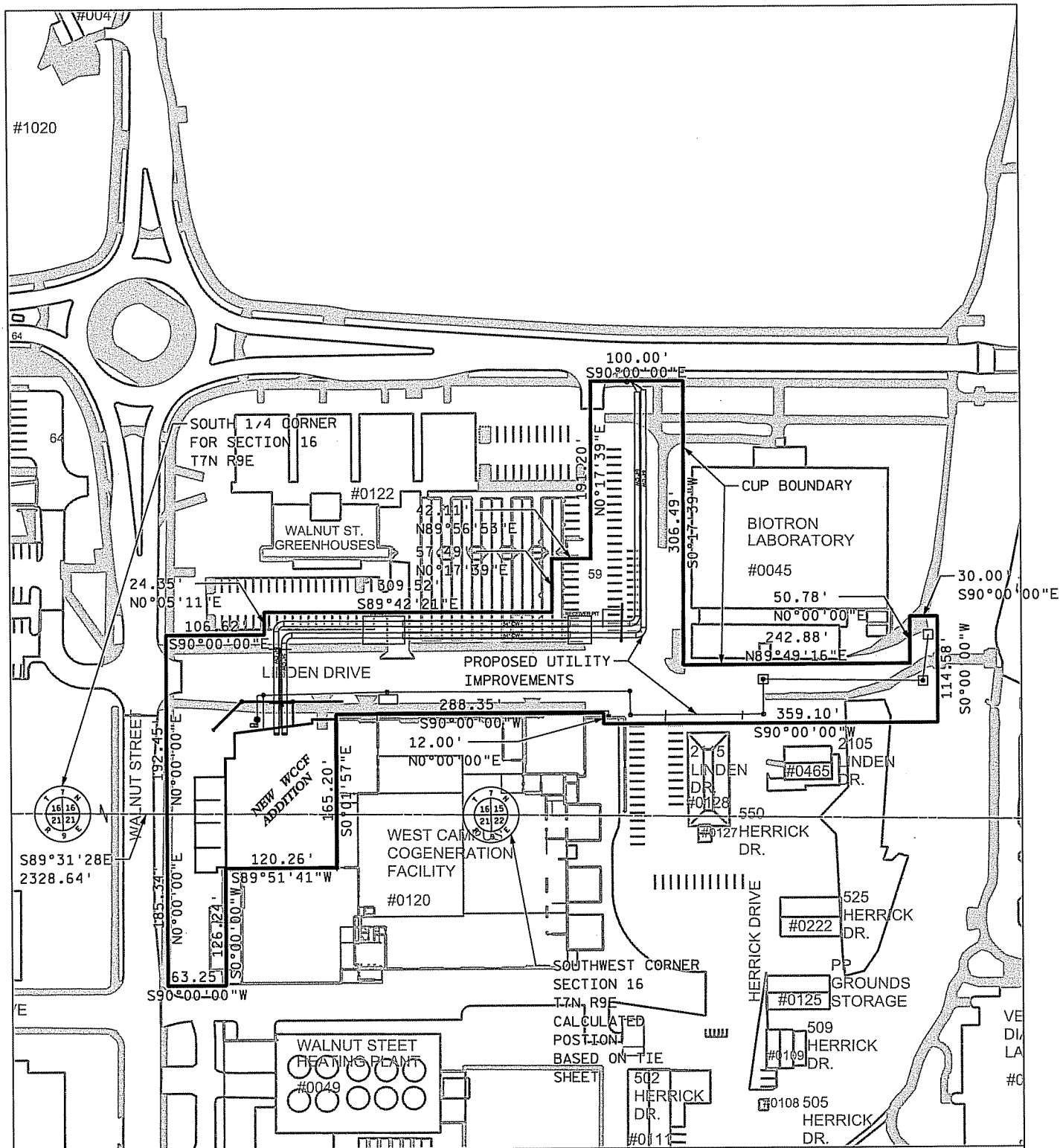
FUNCTIONAL SERVICES

BLOOM COMPANIES, LLC
Bloom Companies, LLC
2000 W. Johnson Drive
Madison, WI 53706
Tel: 608.238.2816 Fax: 608.238.2814

ENGINEERS

AYRES ASSOCIATES
Ayres Associates
Madison, Wisconsin

STAMPS



AYRES ASSOCIATES
Madison, WI



SITE LOCATION
UW-MADISON

MAPPING SOURCE:
AYRES ASSOCIATES TOPO
SURVEY (AUGUST 2011)
&
UW-MADISON UTILITY
BASE MAPPING (2010)

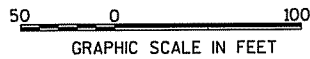
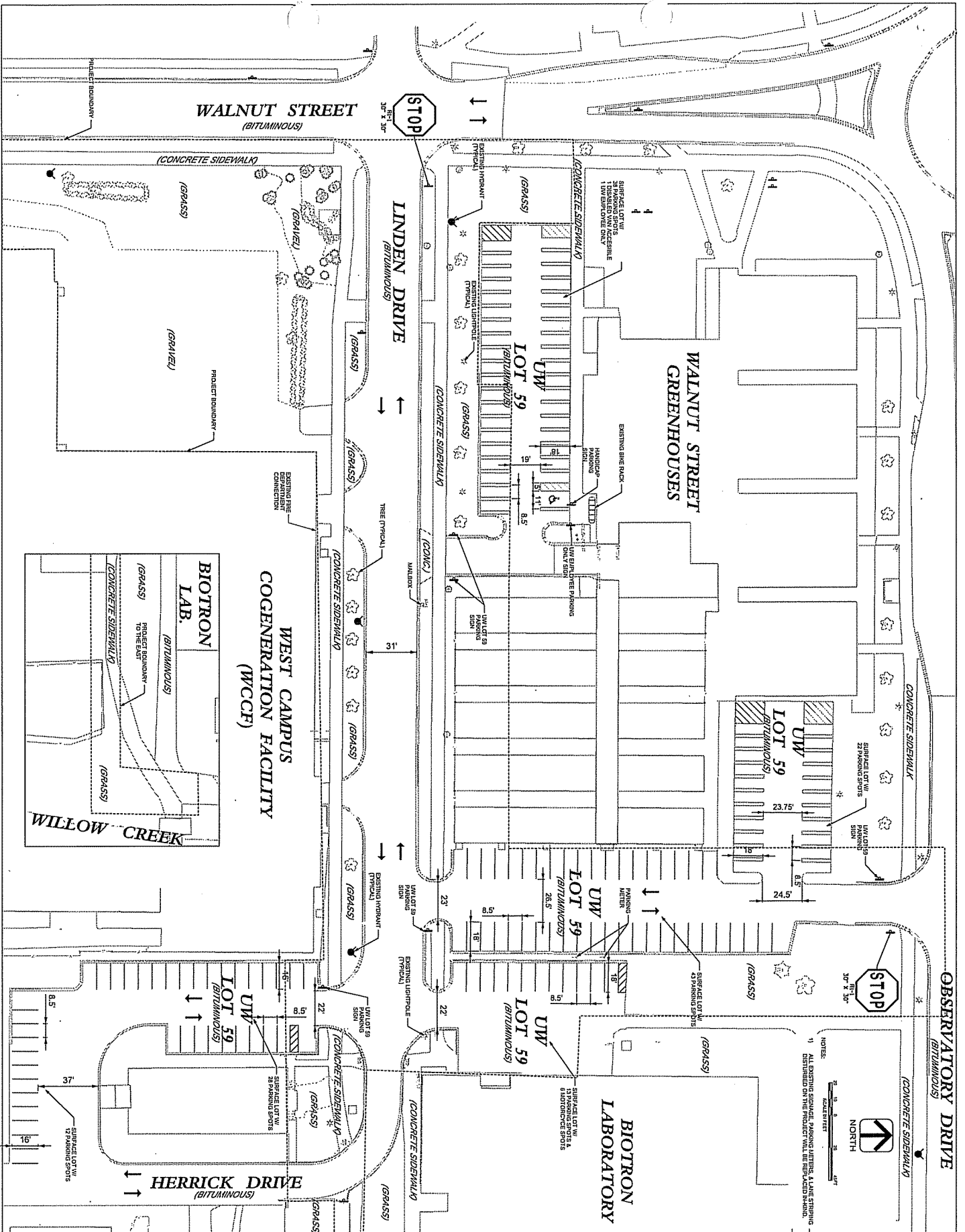


FIGURE 1

UW-MADISON WEST CAMPUS
COGENERATION FACILITY (WCCF)
CONDITIONAL USE
PERMIT (CUP) BOUNDARY

DATE: 02/29/2012
JOB NUMBER: 10K1H

\$FILES
\$PENS
\$DATES
\$TIMES



Project Name	WEST CAMPUS COGENERATION FACILITY
Client	UNIVERSITY OF WISCONSIN-MADISON
Location	MADISON, WISCONSIN
Scale	1" = 20'-0"
Author	LDK/H
Check	CDP
Date	03/07/2012
Sheet Number	C102

**WEST CAMPUS COGENERATION FACILITY
ADDITION AND CHILLER INSTALLATION
UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN**

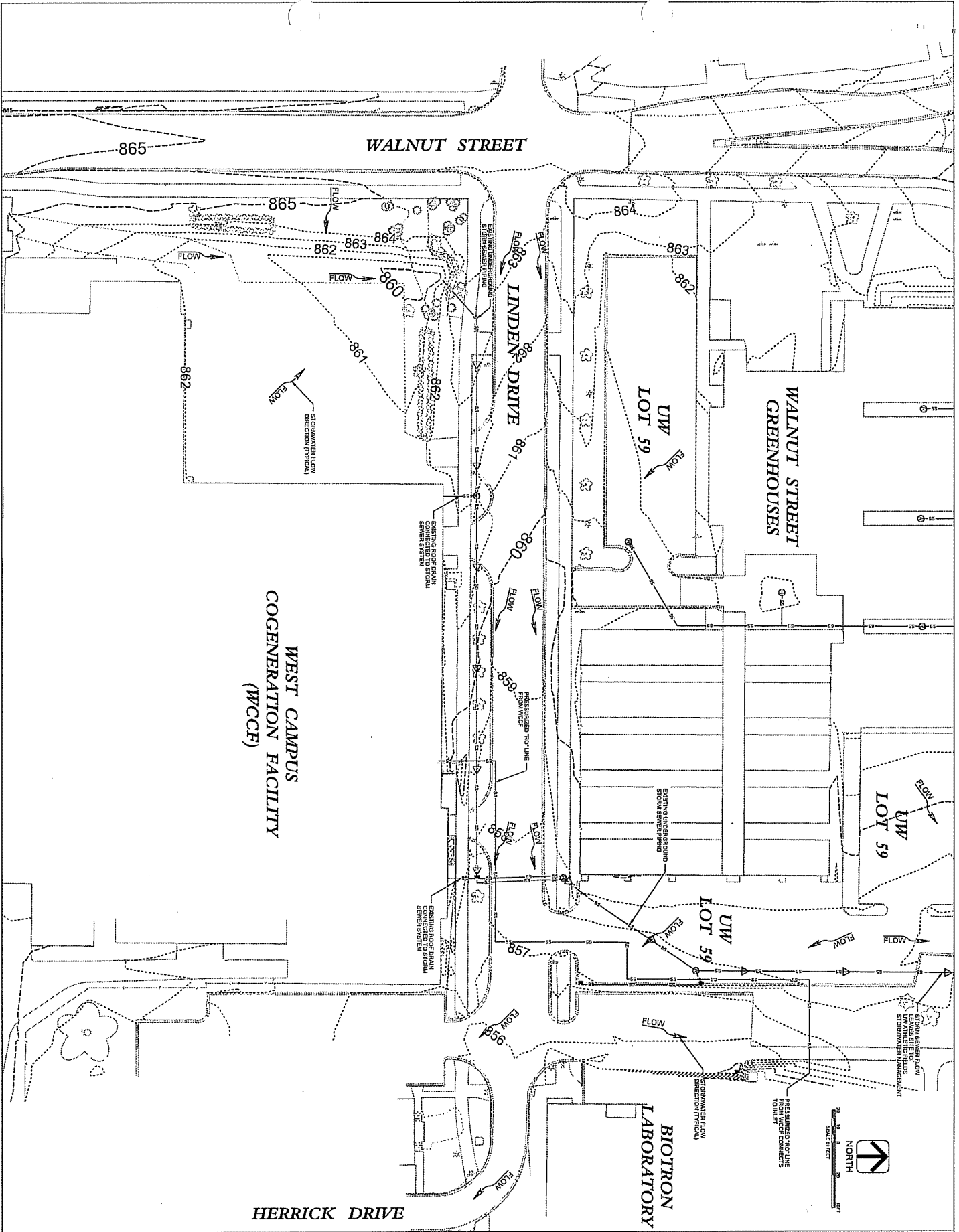
Sheet Title:
EXISTING SITE PLAN

State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

AEI Affiliated
Engineers

ARCS ASSOCIATES
1000 University Avenue
Madison, WI 53706



**WEST CAMPUS
COGENERATION FACILITY
(WCCF)**

**WEST CAMPUS COGENERATION FACILITY
ADDITION AND CHILLER INSTALLATION
UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN**

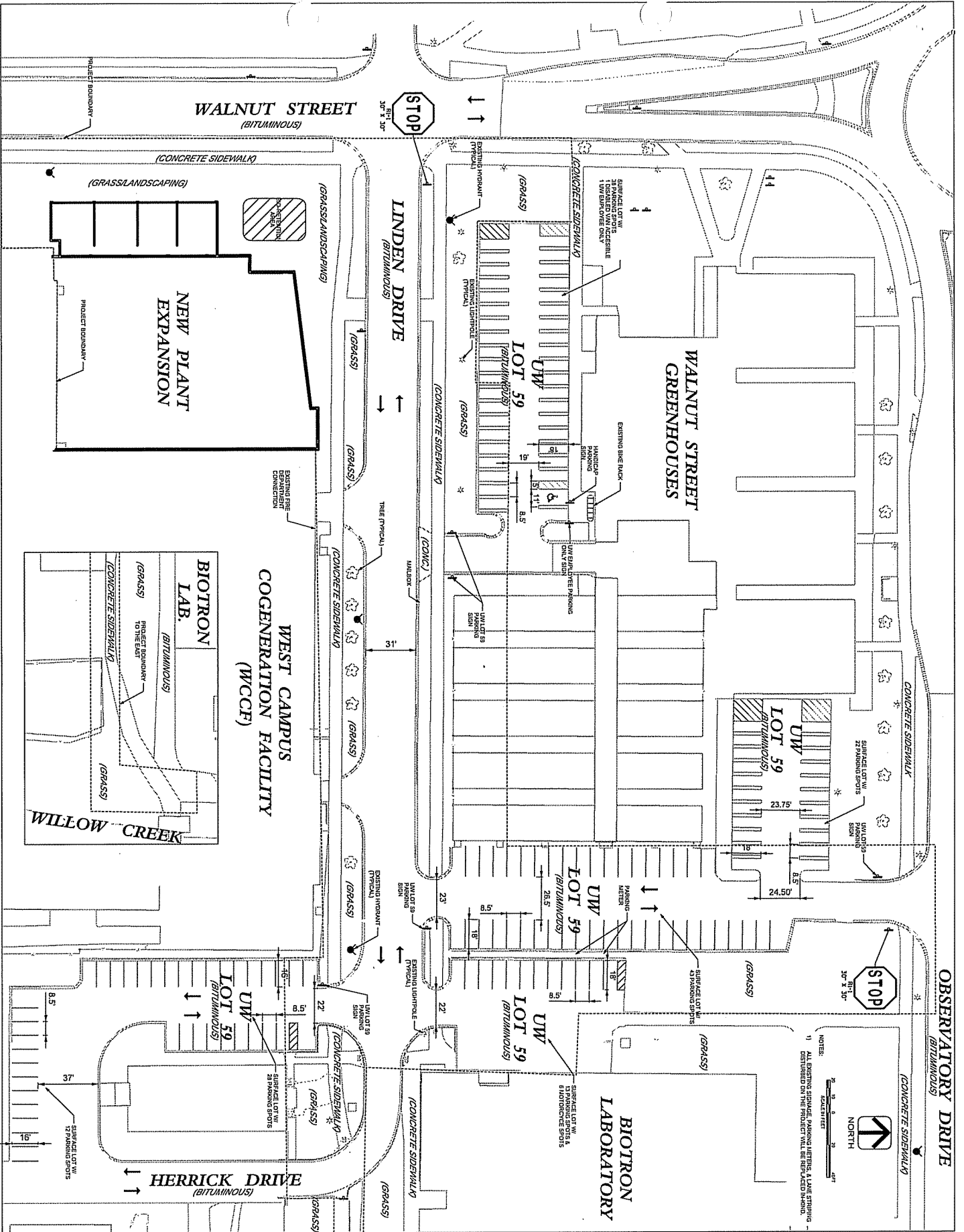
Sheet Title:
EXISTING GRADING & STORM SEWER PLAN

State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

Project No.	10011H
Contract No.	03/07/2012
Scale	1" = 20'-0"
Author	CPJ
Check	CPJ
Date	03/07/2012
Sheet No.	CI05

A&I Affiliated Engineers
ARES ASSOCIATES
 1000 University Avenue
 Madison, Wisconsin 53706



NOTES:
 1) ALL EXISTING SIGNAGE, PARKING MARKERS, & LANE STRIPING SHALL BE MAINTAINED OR REPAIRED AS NECESSARY.

Project Name	WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION
Location	UNIVERSITY OF WISCONSIN-MADISON, MADISON, WISCONSIN
Scale	1" = 30'-0"
Date	03/07/2012
Sheet No.	CT03

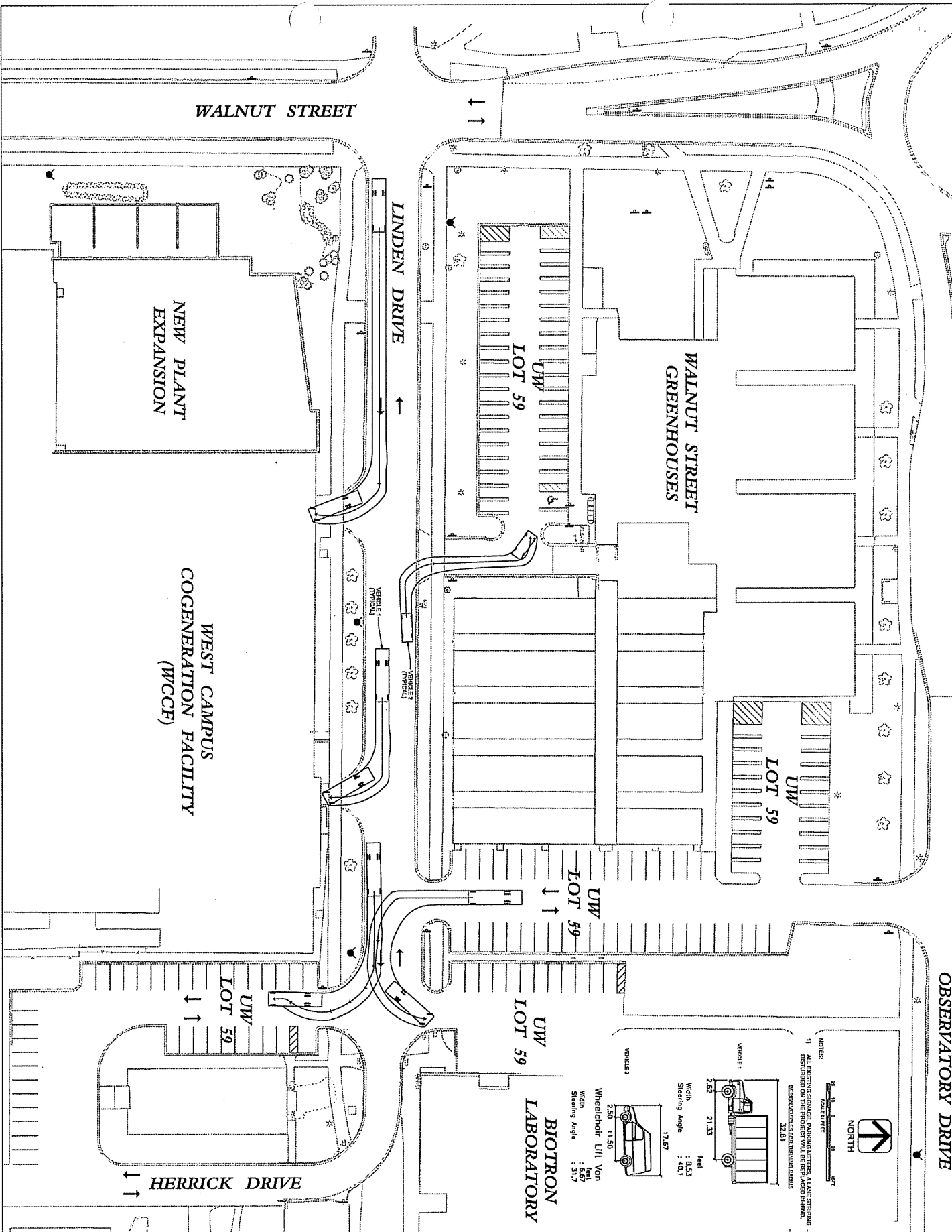
WEST CAMPUS COGENERATION FACILITY
 ADDITION AND CHILLER INSTALLATION
 UNIVERSITY OF WISCONSIN-MADISON
 MADISON, WISCONSIN

State of Wisconsin
 Department of Administration
 Division of State Facilities

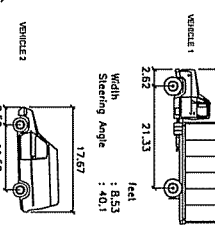
UNIVERSITY OF WISCONSIN SYSTEM
 UNIVERSITY OF WISCONSIN - MADISON

AEI Affiliated Engineers
 1000 University Avenue
 Madison, WI 53706

AMES ASSOCIATES
 1000 University Avenue
 Madison, WI 53706



NOTES:
 1) ALL EXISTING SIGNAL, PARKING METERS, & LANE STRIPING DISTURBED ON THE PROJECT SHALL BE REPLACED EXACTLY AS EXISTING UNLESS OTHERWISE NOTED.



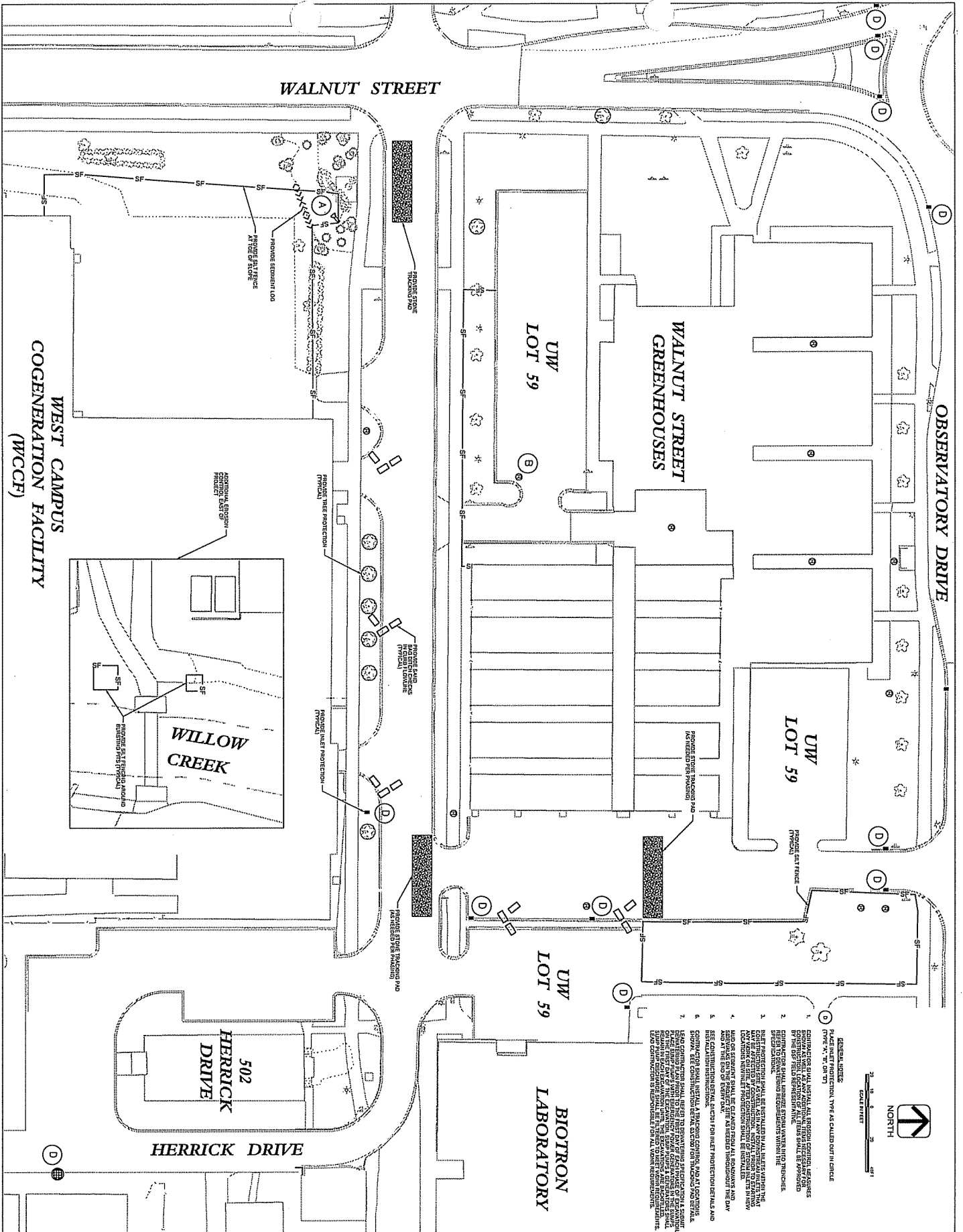
WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN

State of Wisconsin
 Department of Administration
 Division of State Facilities

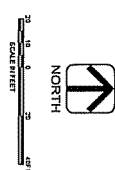
Project Name	WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN
Client	UNIVERSITY OF WISCONSIN - MADISON
Design Firm	AMES ASSOCIATES
Scale	1" = 30'-0"
Sheet No.	100-111
Date	03/07/2012
Revision	03/07/2012
Sheet Title	VEHICLE ACCESSIBILITY PLAN
Sheet No.	C104

AMES ASSOCIATES
 ENGINEERS
 1000 UNIVERSITY AVENUE
 MADISON, WISCONSIN 53706

AEI Affiliated
 ENGINEERS
 1000 UNIVERSITY AVENUE
 MADISON, WISCONSIN 53706



- GENERAL NOTES:**
1. MAKE ALL EROSION CONTROL MEASURES AS CALLED OUT IN CIRCLE TYPE "A" OR "B".
2. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND SHALL BE REMOVED ONLY AFTER THE EROSION CONTROL MEASURES HAVE BEEN SUCCESSFULLY ESTABLISHED AND THE EROSION CONTROL MEASURES HAVE BEEN SUCCESSFULLY ESTABLISHED AND THE EROSION CONTROL MEASURES HAVE BEEN SUCCESSFULLY ESTABLISHED.
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6. THE EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND SHALL BE REMOVED ONLY AFTER THE EROSION CONTROL MEASURES HAVE BEEN SUCCESSFULLY ESTABLISHED AND THE EROSION CONTROL MEASURES HAVE BEEN SUCCESSFULLY ESTABLISHED.
7. THE EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND SHALL BE REMOVED ONLY AFTER THE EROSION CONTROL MEASURES HAVE BEEN SUCCESSFULLY ESTABLISHED AND THE EROSION CONTROL MEASURES HAVE BEEN SUCCESSFULLY ESTABLISHED.



Scale	1" = 20'-0"
Code	1001H
Discipline	CIVIL
Date	03/07/2012
Sheet	C106

WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON, MADISON, WISCONSIN

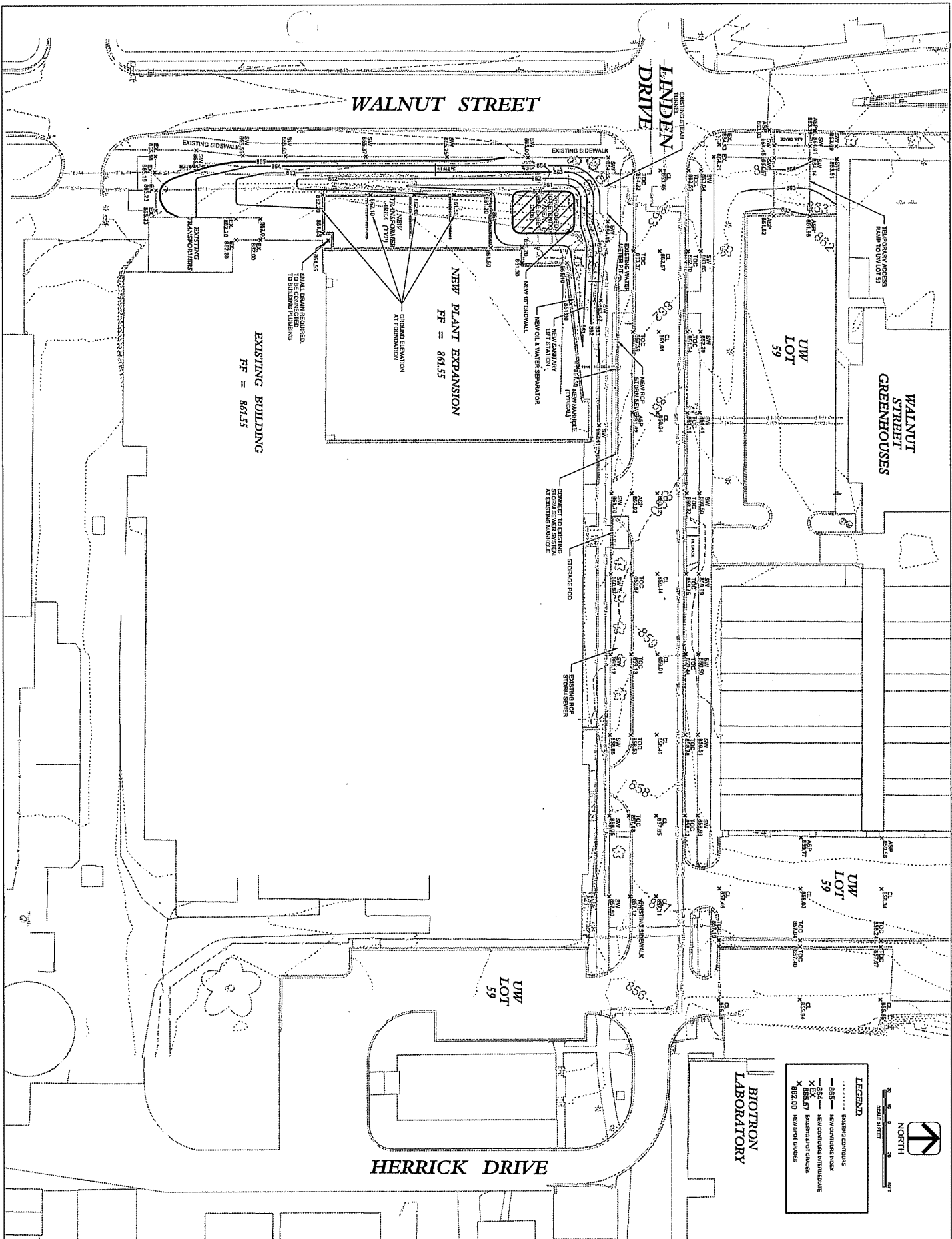
Sheet Title: EROSION CONTROL

State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

ARRES ASSOCIATES
Madison, Wisconsin

AEI Affiliated Engineers



WALNUT STREET

LINDEN DRIVE

WALNUT STREET GREENHOUSES

UW LOT 59

UW LOT 59

UW LOT 59

BIOTRON LABORATORY

HERRICK DRIVE

NEW PLANT EXPANSION
FF = 861.55

EXISTING BUILDING
FF = 861.55

LEGEND

- EXISTING CONDUIT
- NEW CONDUIT
- NEW CONDUIT ENCLOSURE
- NEW CONDUIT ENCLOSURE
- NEW CONDUIT ENCLOSURE
- NEW CONDUIT ENCLOSURE
- NEW CONDUIT ENCLOSURE
- NEW CONDUIT ENCLOSURE

0 10 20
SCALE FEET

NORTH

**WEST CAMPUS COGENERATION FACILITY
ADDITION AND CHILLER INSTALLATION
UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN**

Sheet Title:
NEW SITE GRADING PLAN

State of Wisconsin
Department of Administration
Division of State Facilities

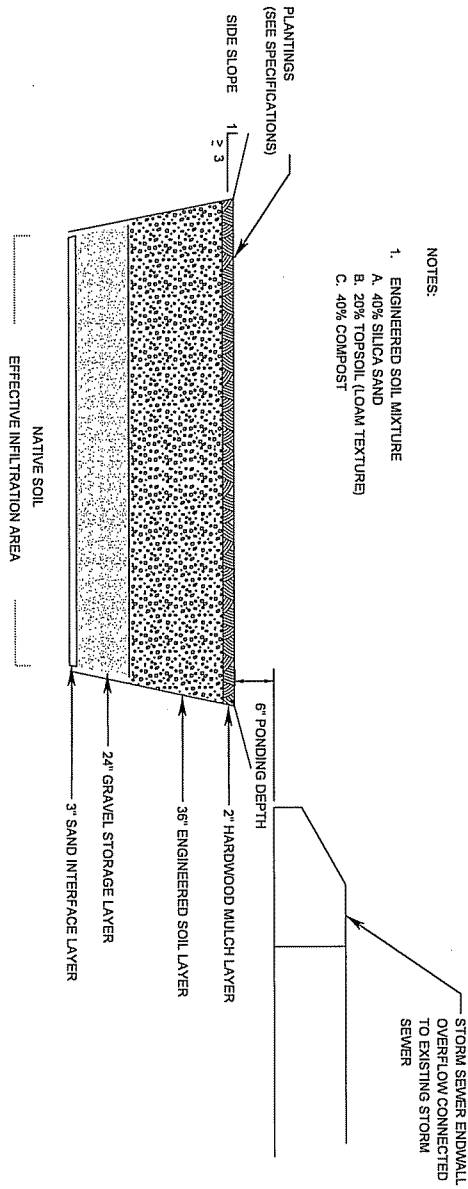
UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

Project No.	100111
Drawn By	CDP
Check By	
Date	03/07/2012
Scale	1" = 20'-0"
Sheet No.	CI07

AEI Affiliated
Engineers
Architects
Interior Designers
Environmental Scientists

ARES ASSOCIATES
ARCHITECTS
PLANNERS
ENGINEERS

PROPOSED BIO-RETENTION AREA CROSS SECTION



- NOTES:
- ENGINEERED SOIL MIXTURE
 - 40% SILICA SAND
 - 20% TOPSOIL (LOAM TEXTURE)
 - 40% COMPOST

Project No.	100114
Client	CUF
Issue Date	02/07/2012
Sheet No.	C108
Scale	
Author	
Check	
Drawn	
Reviewed	
Approved	
Discipline	
Sub-discipline	
System	
Component	
Material	
Quantity	
Unit	
Notes	

**WEST CAMPUS COGENERATION FACILITY
ADDITION AND CHILLER INSTALLATION
UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN**

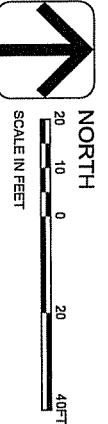
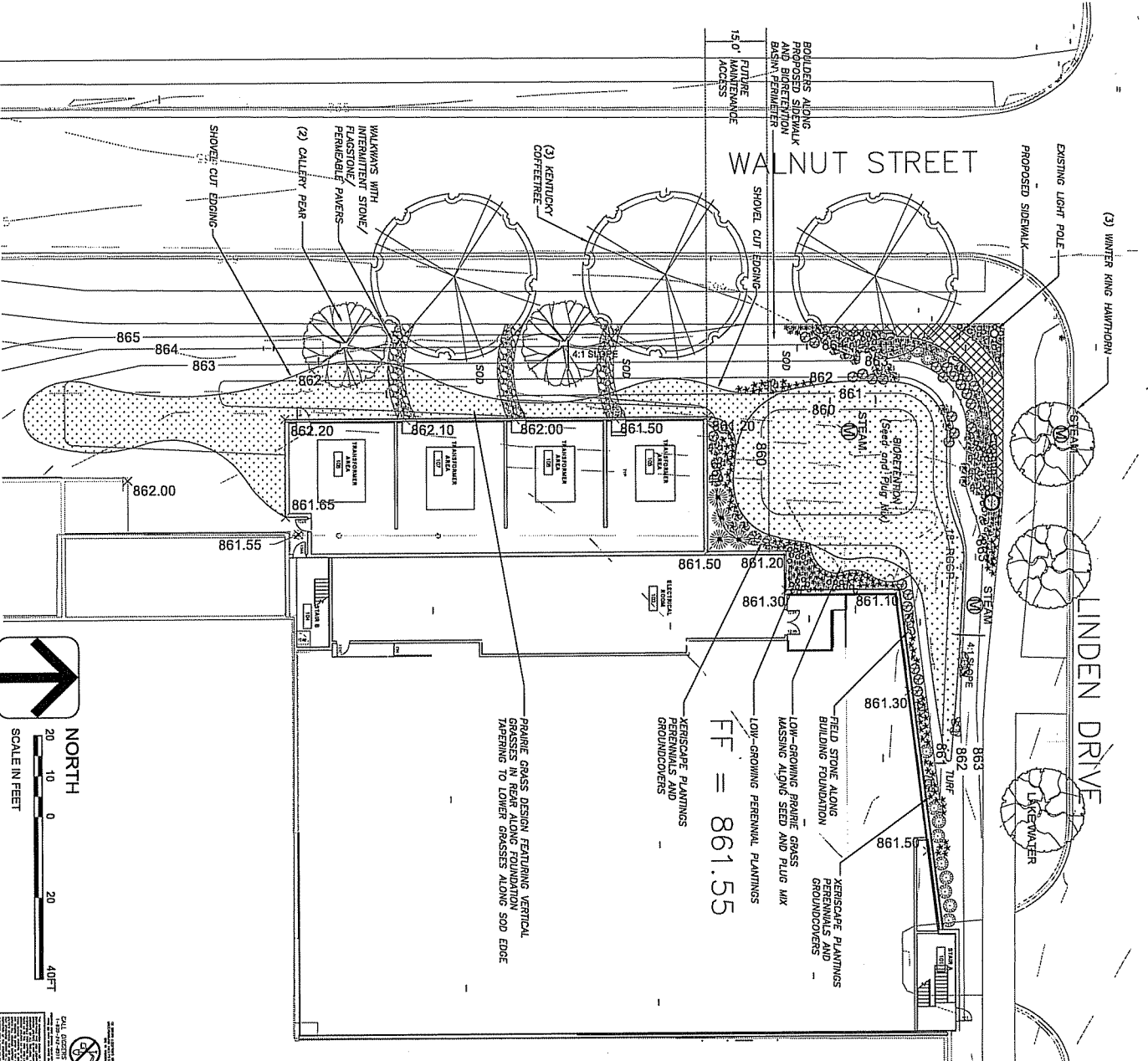
Sheet Title:
STORMWATER MANAGEMENT BIO-RETENTION AREA

State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

AEI Affiliated Engineers
Professional Engineers
Professional Land Surveyors
Professional Architects
Professional Planners
Professional Interiors

APRES ASSOCIATES



PLANTING NOTES:
 1. REFER TO SHEET L102 FOR DETAILS, SPECIFICATIONS, MAINTENANCE RESPONSIBILITIES AND NOTES.
 2. REFER TO THE EXISTING CONDITIONS PLAN FOR EXISTING CONDITIONS NOTES AND LEGEND.
 3. REFER TO CIVIL PLANS FOR PROPOSED DRAINAGE CONTROL, GRADING, AND UTILITIES.
 4. ASB SHALL BE FIELD WALKABLE AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN SUBSTANTIAL DAMAGE TO THE PROJECT OR ADVERSE IMPACTS TO THE ADJACENT COMMUNITY.
 5. GRADING FOR REVIEW - NOT FOR CONSTRUCTION UNLESS OTHERWISE NOTED IN THE TITLE BLOCK.

LANDSCAPE PLANT LIST	SYMBOL	SIZE	NOTES
1. BIRCH (Betula pumila)	[Symbol]	10-12"	1.00
2. BIRCH (Betula pumila)	[Symbol]	10-12"	1.00
3. BIRCH (Betula pumila)	[Symbol]	10-12"	1.00
4. BIRCH (Betula pumila)	[Symbol]	10-12"	1.00
5. BIRCH (Betula pumila)	[Symbol]	10-12"	1.00
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80. BIRCH (Betula pumila)	[Symbol]	10-12"	1.00
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98. BIRCH (Betula pumila)	[Symbol]	10-12"	1.00
99. BIRCH (Betula pumila)	[Symbol]	10-12"	1.00
100. BIRCH (Betula pumila)	[Symbol]	10-12"	1.00

**WEST CAMPUS COGENERATION FACILITY
 ADDITION AND CHILLER INSTALLATION
 UNIVERSITY OF WISCONSIN-MADISON
 MADISON, WISCONSIN**

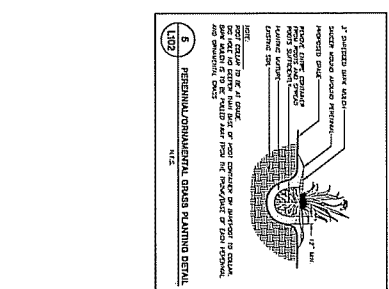
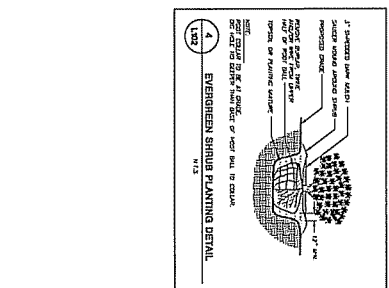
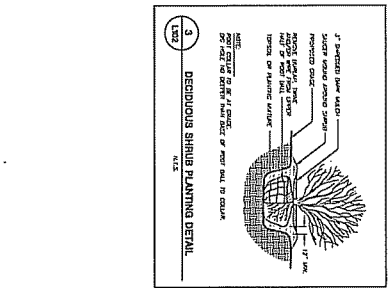
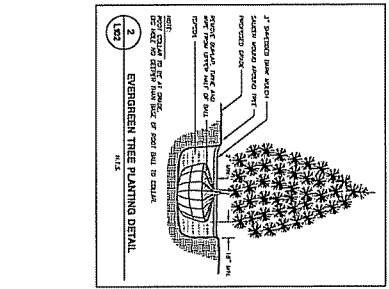
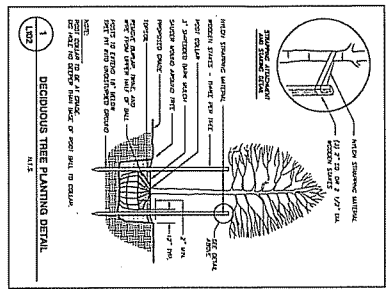
DATE: 01/07/2012
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State of Wisconsin
 Department of Administration
 Division of State Facilities

UNIVERSITY OF WISCONSIN - SYSTEM
 UNIVERSITY OF WISCONSIN - MADISON

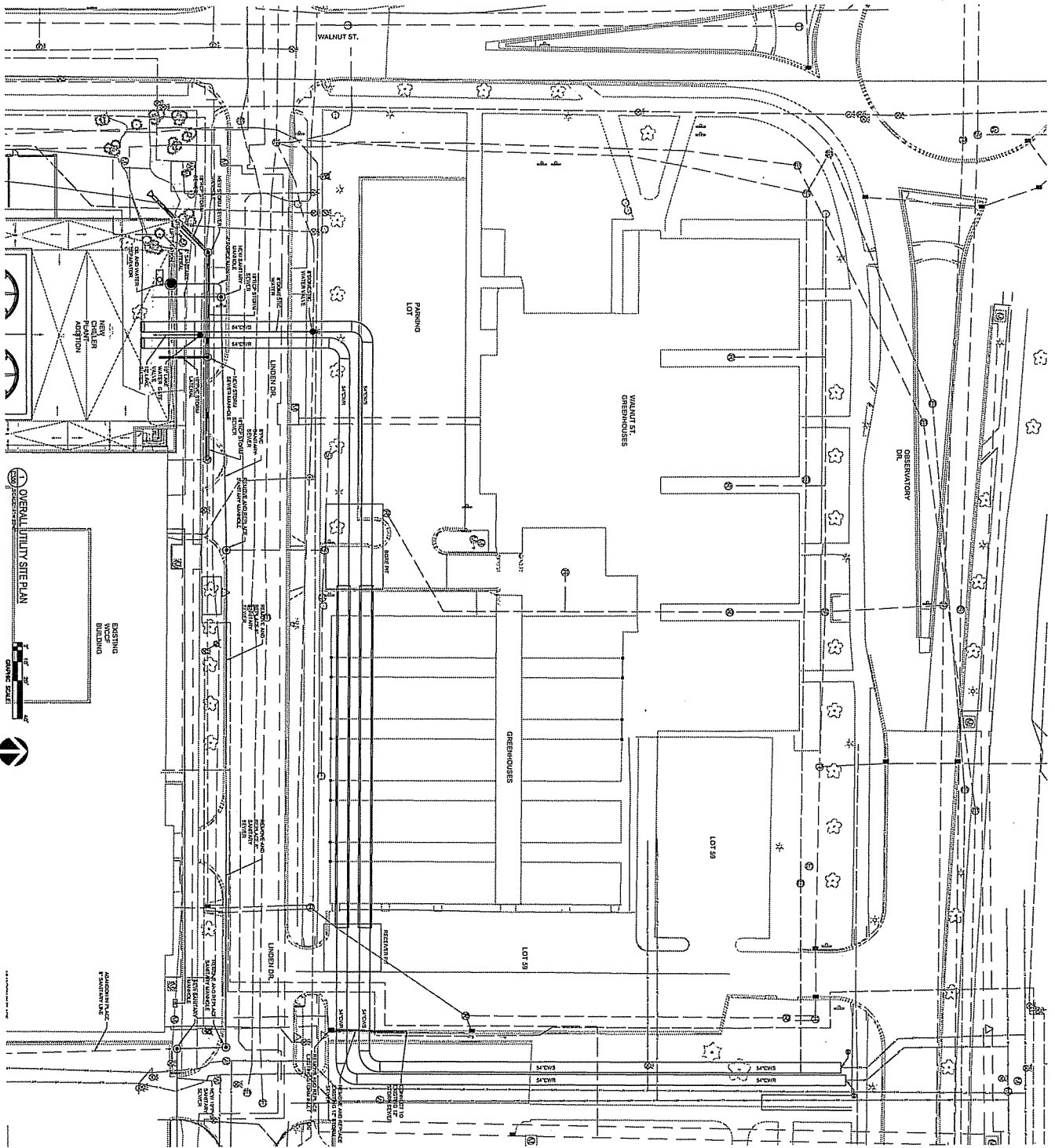
A&I Applied
 Engineers



18

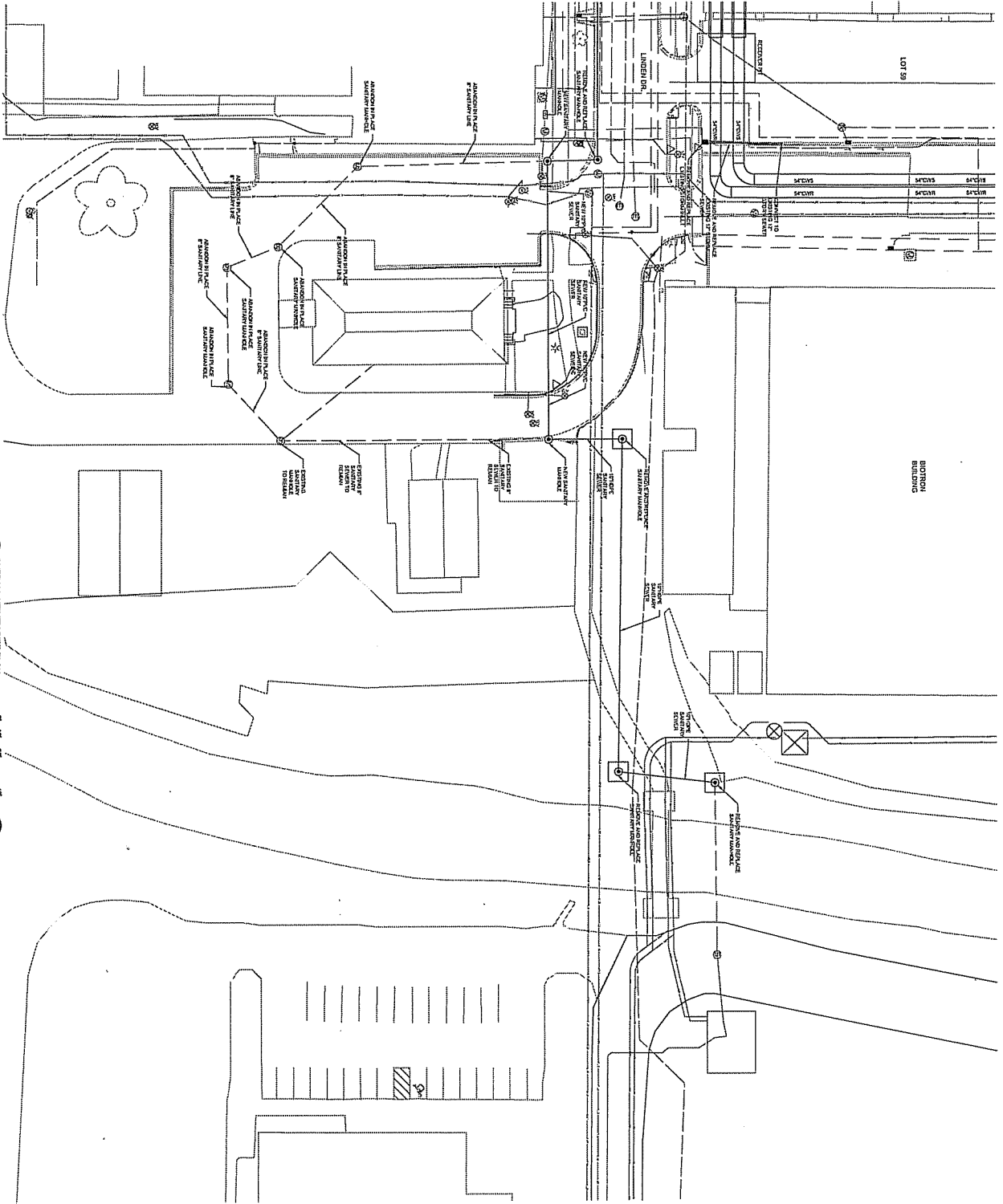


LANDSCAPE NOTES AND SPECIFICATIONS

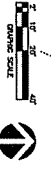
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2. **EVERGREEN TREE PLANTING DETAIL**
 2.1. **1\"/>**
3. **DECIDUOUS SHRUB PLANTING DETAIL**
 3.1. **1\"/>**
4. **EVERGREEN SHRUB PLANTING DETAIL**
 4.1. **1\"/>**
5. **PERENNIAL/ORNAMENTAL GRASS PLANTING DETAIL**
 5.1. **1\"/>**





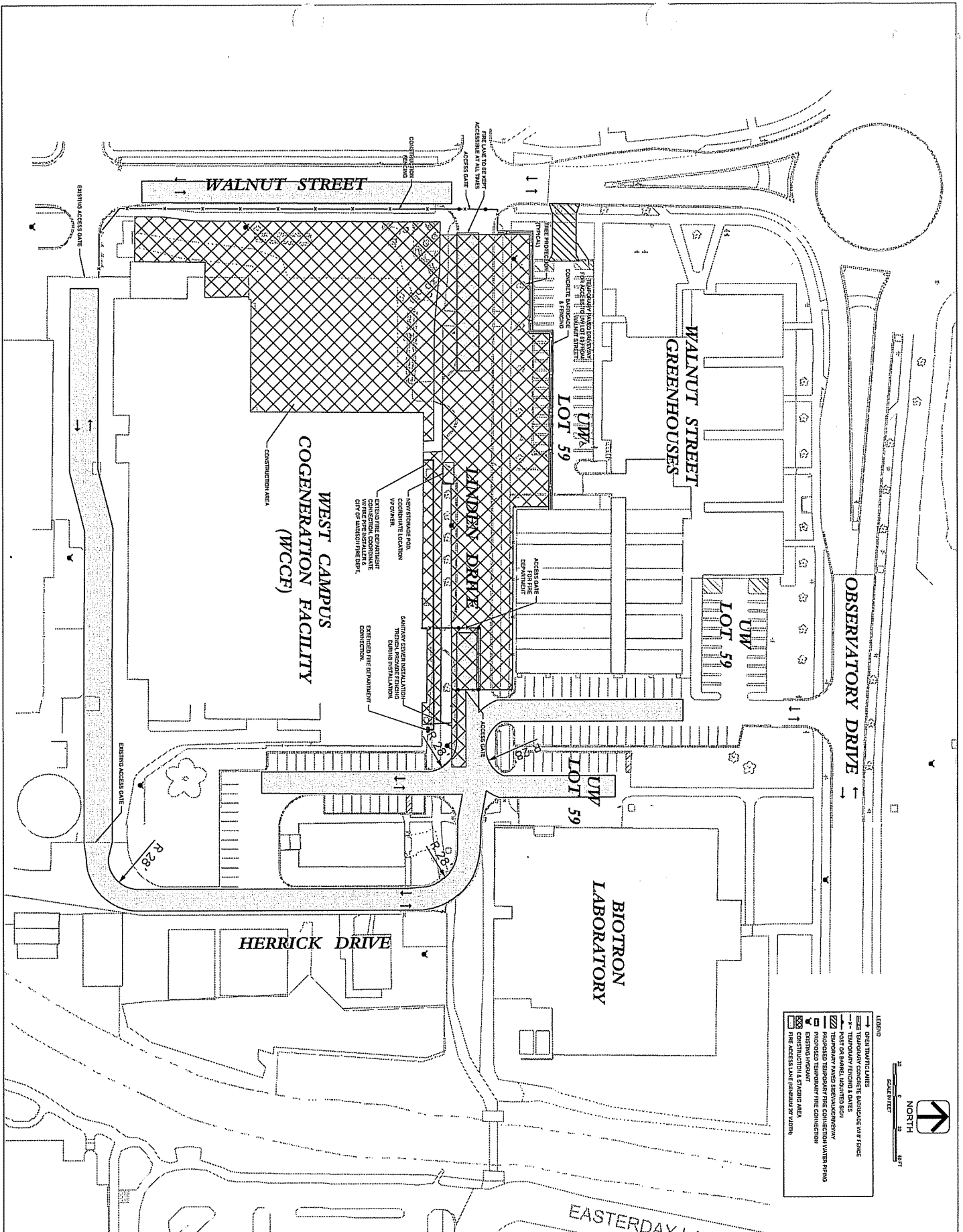
WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN		 State of Wisconsin Department of Administration Division of State Facilities	 AEI Affiliated Engineers <small>Professional Engineers License No. 1000000000 State of Wisconsin</small>
Sheet Title: OVERALL UTILITY SITE PLAN		UNIVERSITY OF WISCONSIN SYSTEM UNIVERSITY OF WISCONSIN - MADISON	Comment:
Drawing No.: C300	Date: 03/07/2012	Scale: 1"=100'	Project:



1 OVERALL UTILITY SITE PLAN
SCALE: 1" = 50'



 AECI Affiliated Engineers <small>REGISTERED PROFESSIONAL ENGINEERS LICENSED IN THE STATE OF WISCONSIN</small>		State of Wisconsin Department of Administration Division of State Facilities		 UNIVERSITY OF WISCONSIN SYSTEM UNIVERSITY OF WISCONSIN - MADISON	
WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN					
Sheet Title: OVERALL UTILITY SITE PLAN					
Project: No. 1007011 - Cogeneration Plant	Date: 02/07/2012	Scale: 1" = 50'	Type: CDP	Drawn: [Name]	Checked: [Name]
No. 1007011	02/07/2012	1" = 50'	CDP	[Name]	[Name]
C301	02/07/2012	1" = 50'	CDP	[Name]	[Name]



Project No.	C026
Revision	02/07/2012
Scale	1" = 30'-0"
Author	10K/H
Check	CJP
Drawn	
Reviewed	
Approved	

**WEST CAMPUS COGENERATION FACILITY
ADDITION AND CHILLER INSTALLATION
UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN**

Sheet Title:
FIRE DEPARTMENT ACCESS PLAN - PHASE 1

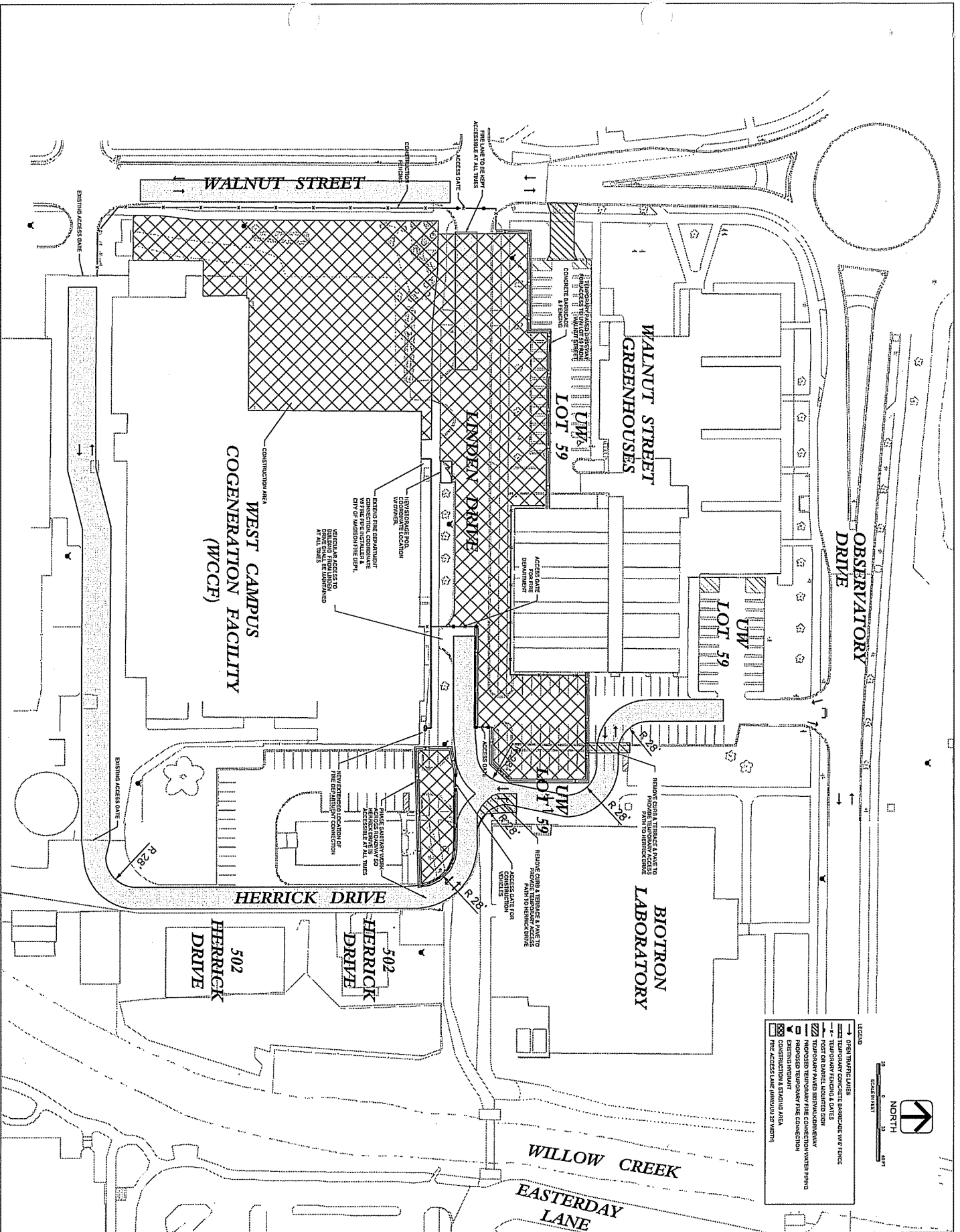
State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

AEI Affiliated Engineers

ARES ASSOCIATES

18



Scale	1" = 30'-0"
Map No.	100114
Job No.	CO27
Date	03/07/2012
Project	CO27

**WEST CAMPUS COGENERATION FACILITY
ADDITION AND CHILLER INSTALLATION
UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN**

Sheet Title:
FIRE DEPARTMENT ACCESS PLAN - PHASE 2

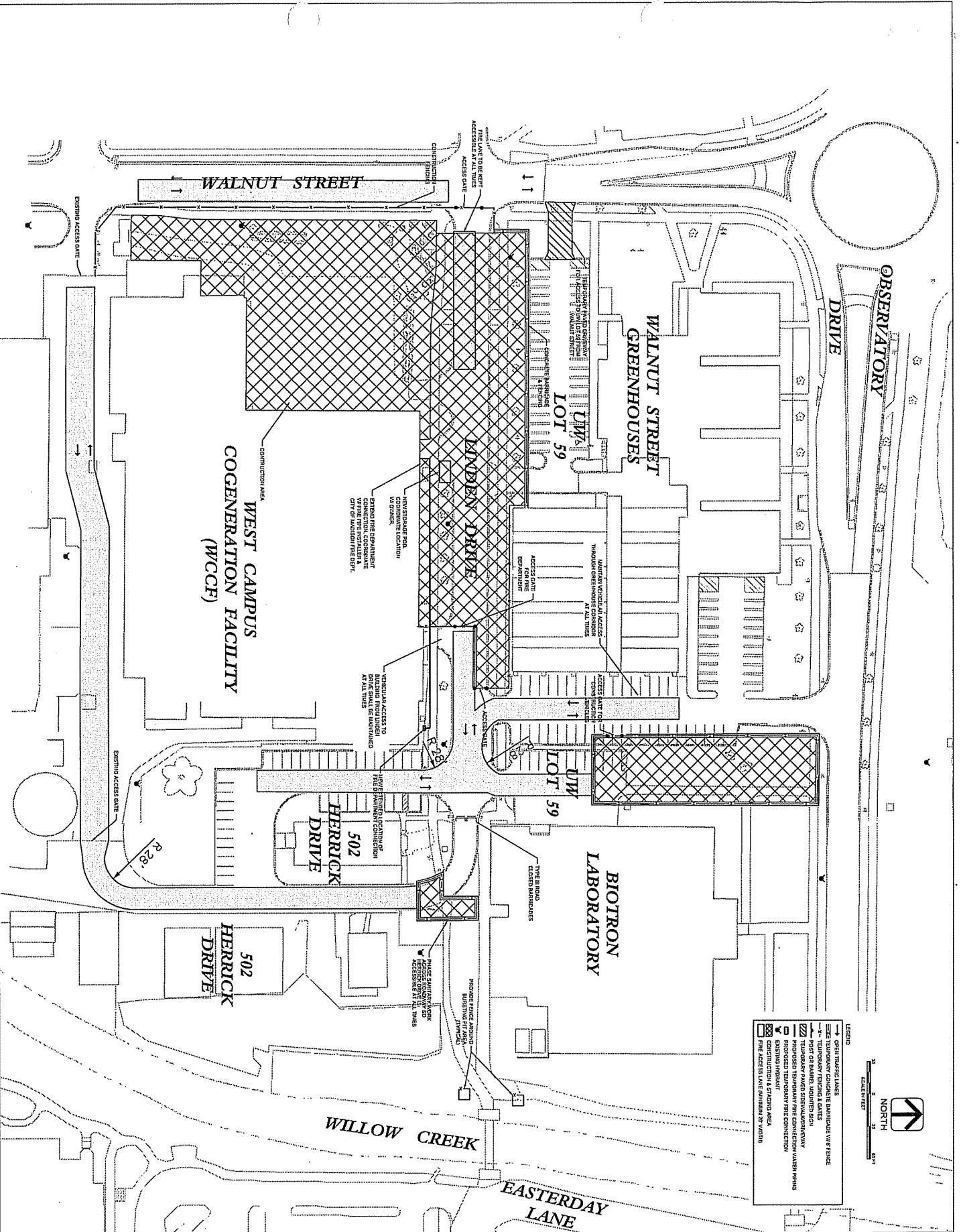
State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

AEI Affiliated Engineers

ARCS ASSOCIATES

18



LEGEND

- OPEN TRAFFIC LANE
- ⇄ EXISTING TEMPORARY FIRE CONNECTION W/ VV FIRE
- PROPOSED TEMPORARY FIRE CONNECTION
- EXISTING FIRE CONNECTION W/ VV FIRE
- PROPOSED TEMPORARY FIRE CONNECTION W/ VV FIRE
- EXISTING FIRE CONNECTION
- PROPOSED TEMPORARY FIRE CONNECTION
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- PROPOSED TEMPORARY FIRE CONNECTION

SCALE BY FEET

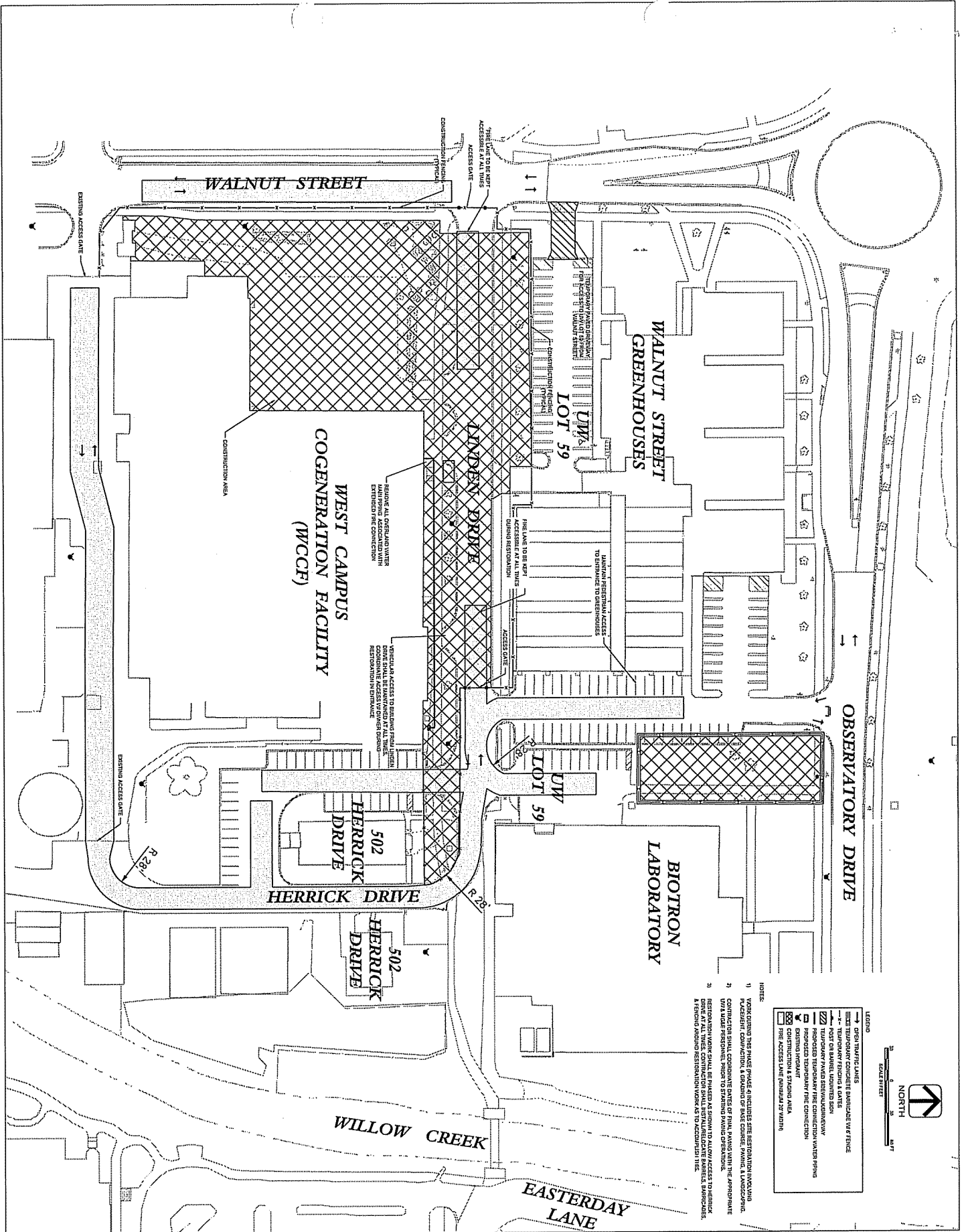
1" = 30'-0"

0 10 20 30

NORTH

DATE: 03/07/2012

PROJECT: WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION



- LEGEND**
- GREY HATCHED LINES ——— FUTURE UTILITIES (8\"/>

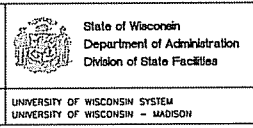
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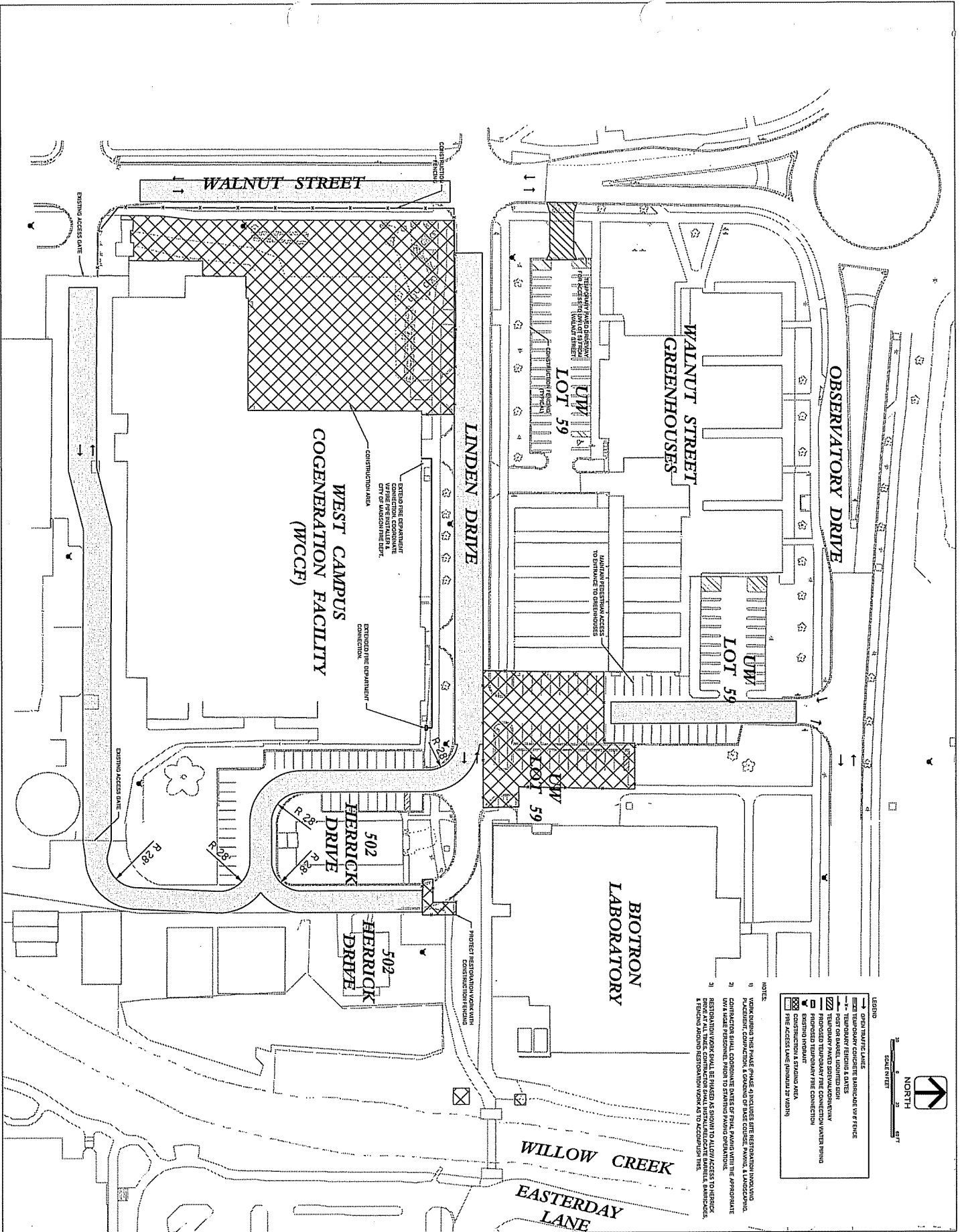
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- 2) CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESS TO THE FACILITY AND ALL NECESSARY ACCESS TO THE FACILITY AND ALL NECESSARY ACCESS TO THE FACILITY.
- 3) CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESS TO THE FACILITY AND ALL NECESSARY ACCESS TO THE FACILITY AND ALL NECESSARY ACCESS TO THE FACILITY.
- 4) CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESS TO THE FACILITY AND ALL NECESSARY ACCESS TO THE FACILITY AND ALL NECESSARY ACCESS TO THE FACILITY.

Project Name		WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN	
Sheet Title		FIRE DEPARTMENT ACCESS PLAN - PHASE 4	
Date		03/07/2012	
Scale		1" = 30'-0"	
Author		CJP	
Drawing No.		CO29	

State of Wisconsin
 Department of Administration
 Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
 UNIVERSITY OF WISCONSIN - MADISON





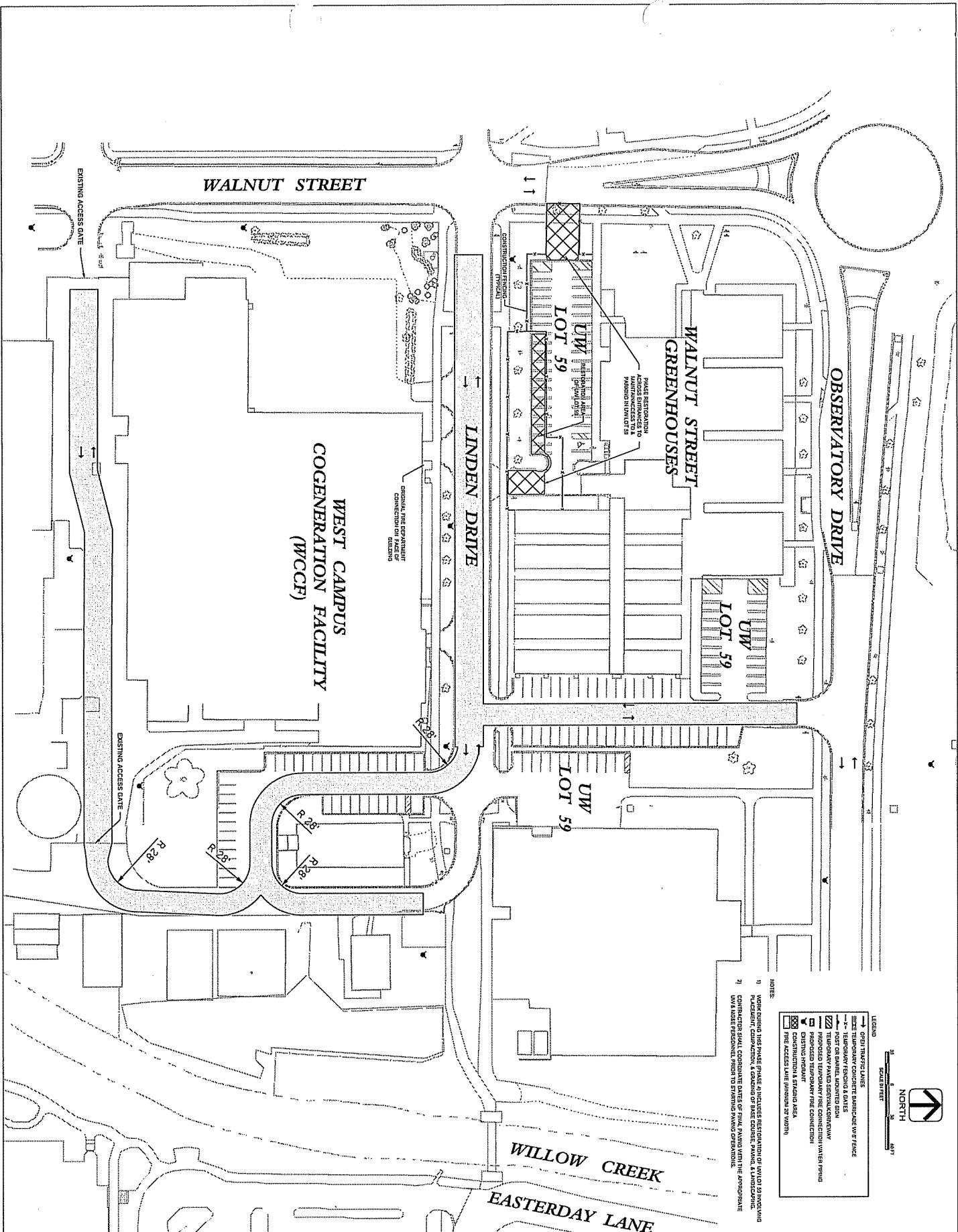
Project No.	02/07/2012
Scale	1" = 30'-0"
Author	DKH
Check	DKH
Date	02/07/2012
Sheet No.	02/07/2012
Project Name	CO80

WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN

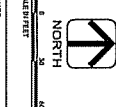
Sheet Title:
FIRE DEPARTMENT ACCESS PLAN - PHASE 4 (CONTINUED)

State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON



- NOTES:
- 1) WORKING DRAWING. THIS PLAN IS TO BE USED FOR THE CONSTRUCTION OF THE WEST CAMPUS COGENERATION FACILITY. ANY CHANGES TO THIS PLAN MUST BE APPROVED BY THE ARCHITECT AND ENGINEER.
 - 2) CONTRACTOR SHALL COORDINATE ALL UTILITIES AND ERECTION WITH THE APPROPRIATE UTILITY AGENCIES AND THE UNIVERSITY OF WISCONSIN.
- LEGEND:
- CHED TRAFFIC LINES
 - EXISTING TEMPORARY CONCRETE BARRIAGE WALL/FENCE
 - PROPOSED TEMPORARY FENCE & GATES
 - PROPOSED PAVED DRIVEWAY/ALLEYWAY
 - PROPOSED TEMPORARY FIRE CONNECTION WATER PIPING
 - PROPOSED TEMPORARY FIRE CONNECTION
 - CONSTRUCTION & PLANNING AREA
 - FIRE ACCESS LANE (MINIMUM 20' WIDTH)



Project No.	CO31
Issue No.	05/07/2012
Scale	1" = 30'-0"
Author	JKH
Check	JKH
Drawn	JKH
Reviewed	JKH
Approved	JKH

**WEST CAMPUS COGENERATION FACILITY
ADDITION AND CHILLER INSTALLATION
UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN**

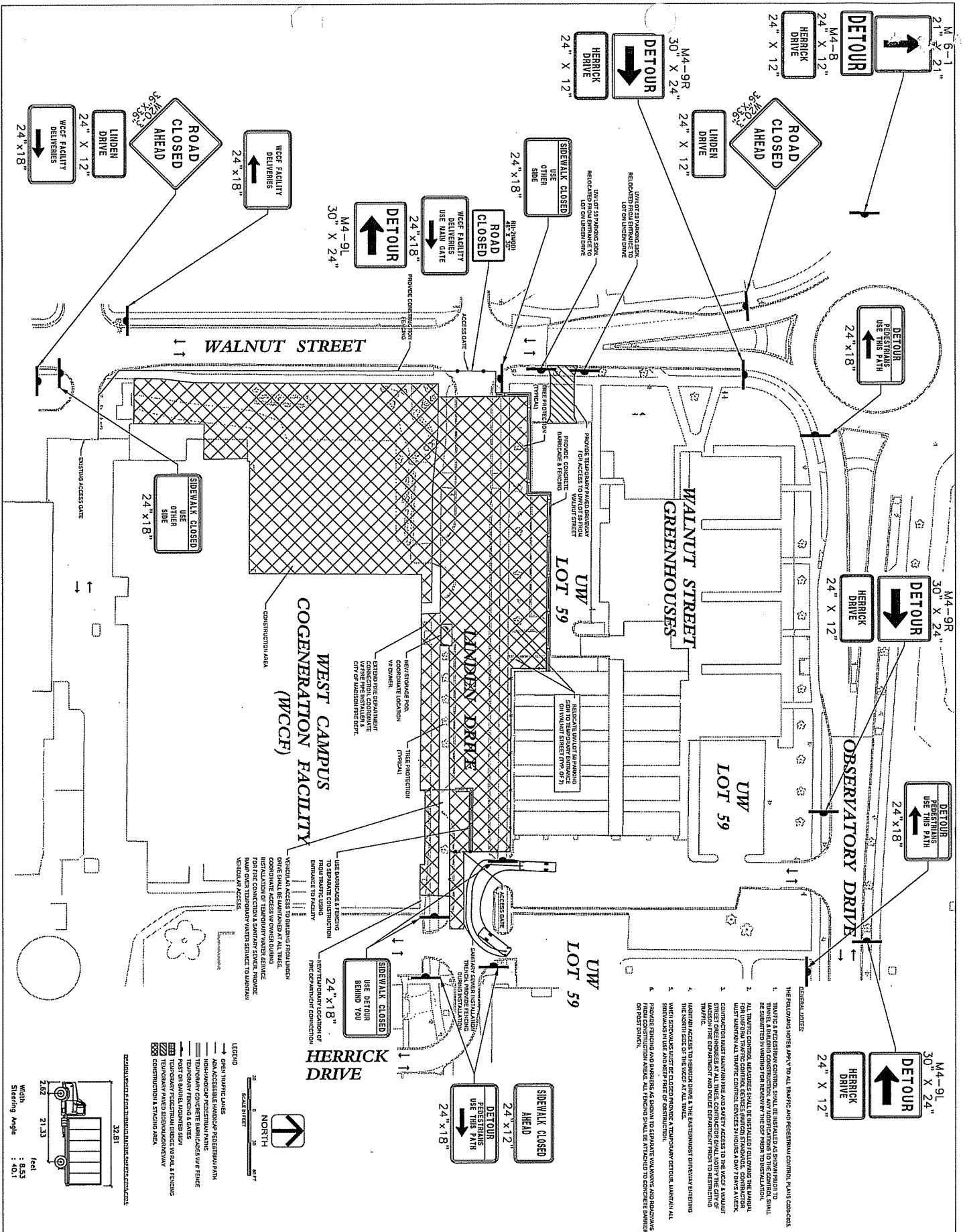
Sheet Title:
FIRE DEPARTMENT ACCESS PLAN - PHASE 4 (CONTINUED)

State of Wisconsin
Department of Administration
Division of State Facilities

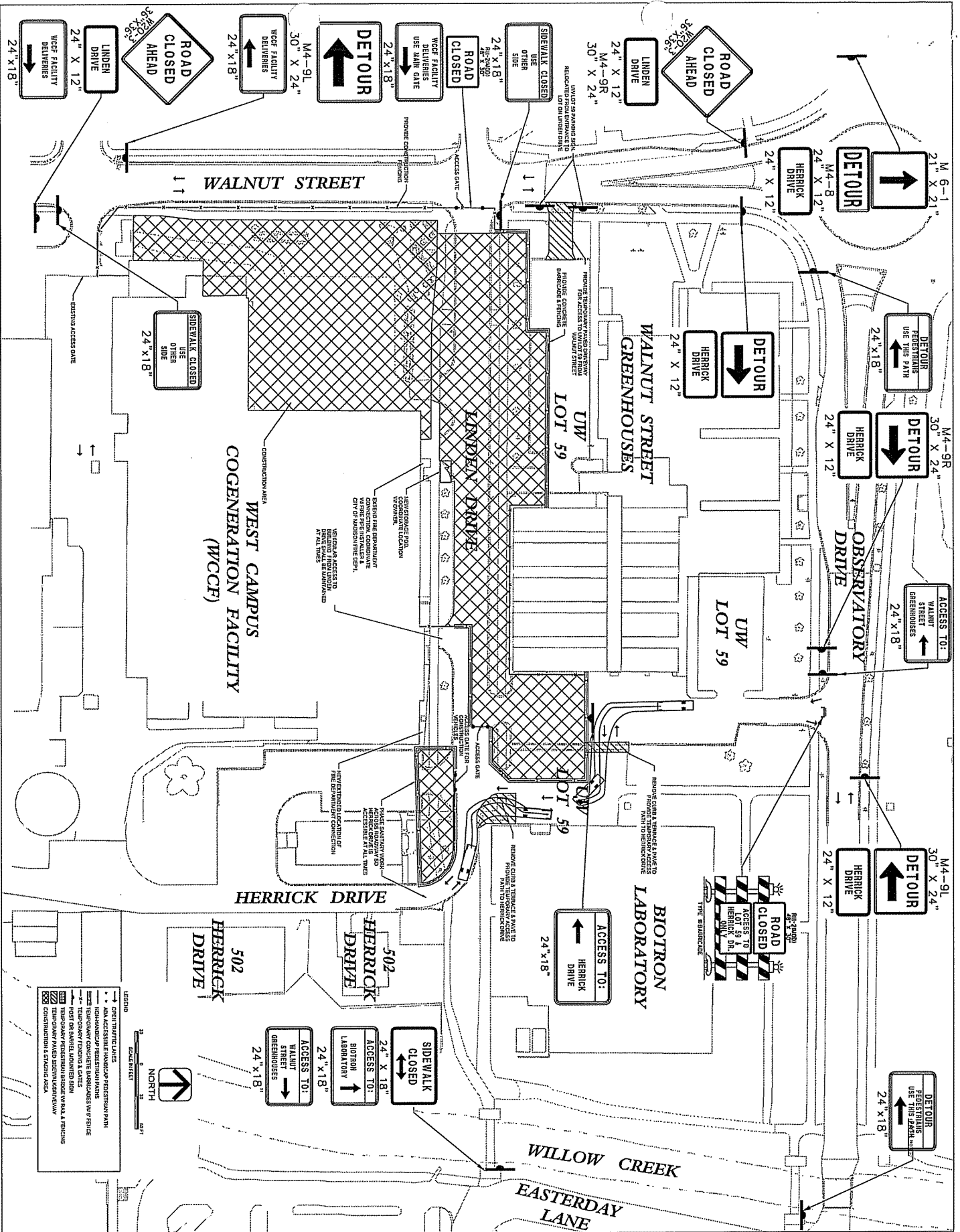
UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON



Professional Engineer
A.B.E.I. Affiliated
Engineers
Professional Engineer
ARS ASSOCIATES
Professional Engineer



WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN		State of Wisconsin Department of Administration Division of State Facilities	A&I Affiliated ENGINEERS 1000 University Avenue Madison, WI 53706
Project: CO200 Date: 03/07/2012 Scale: 1" = 30'-0" Sheet No.: 10011H Drawn By: GUP Checked By:	Sheet Title: SITE DEVELOPMENT LAYOUT - PHASE 1	UNIVERSITY OF WISCONSIN SYSTEM UNIVERSITY OF WISCONSIN - MADISON	ARCS ASSOCIATES 1000 University Avenue Madison, WI 53706



LEGEND

---	EXISTING UTILITY LINES
---	NEW UTILITY LINES
---	EXISTING SIDEWALKS
---	NEW SIDEWALKS
---	EXISTING ASPHALT DRIVEWAYS
---	NEW ASPHALT DRIVEWAYS
---	EXISTING CONCRETE DRIVEWAYS
---	NEW CONCRETE DRIVEWAYS
---	EXISTING PAVED SIDEWALKS
---	NEW PAVED SIDEWALKS
---	EXISTING GRASS AREAS
---	NEW GRASS AREAS
---	EXISTING PAVED SIDEWALKS
---	NEW PAVED SIDEWALKS
---	EXISTING CONSTRUCTION & STAGING AREA
---	NEW CONSTRUCTION & STAGING AREA

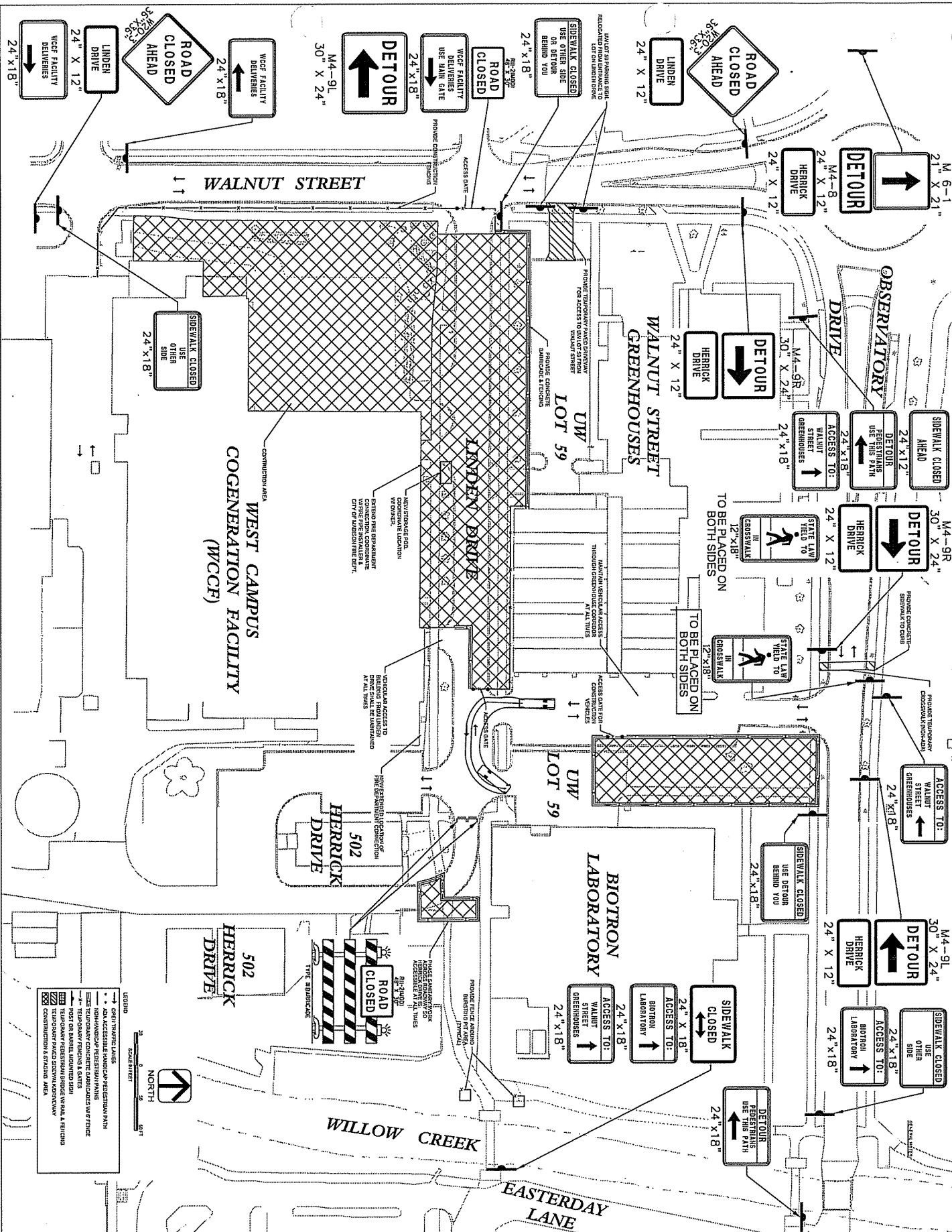
**WEST CAMPUS COGENERATION FACILITY
ADDITION AND CHILLER INSTALLATION
UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN**

Sheet No: SITE DEVELOPMENT LAYOUT - PHASE 2

State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

Project No.	0201
Date	02/07/2012
Scale	1" = 30'-0"
Sheet No.	1001H
Drawn By	CDP
Checked By	
Approved By	



Code	Description
1	Green Thatched Lines
2	Non-Accessible Hatched/Thatched Area
3	Temporary Concrete Surfaces/Barriers/Verfence
4	Post on Barbed Wire/Identified Sign
5	Temporary Restricted Access Vehicle & Pedestrian
6	Construction Staging Area

WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN

Scale: 1" = 30'-0"

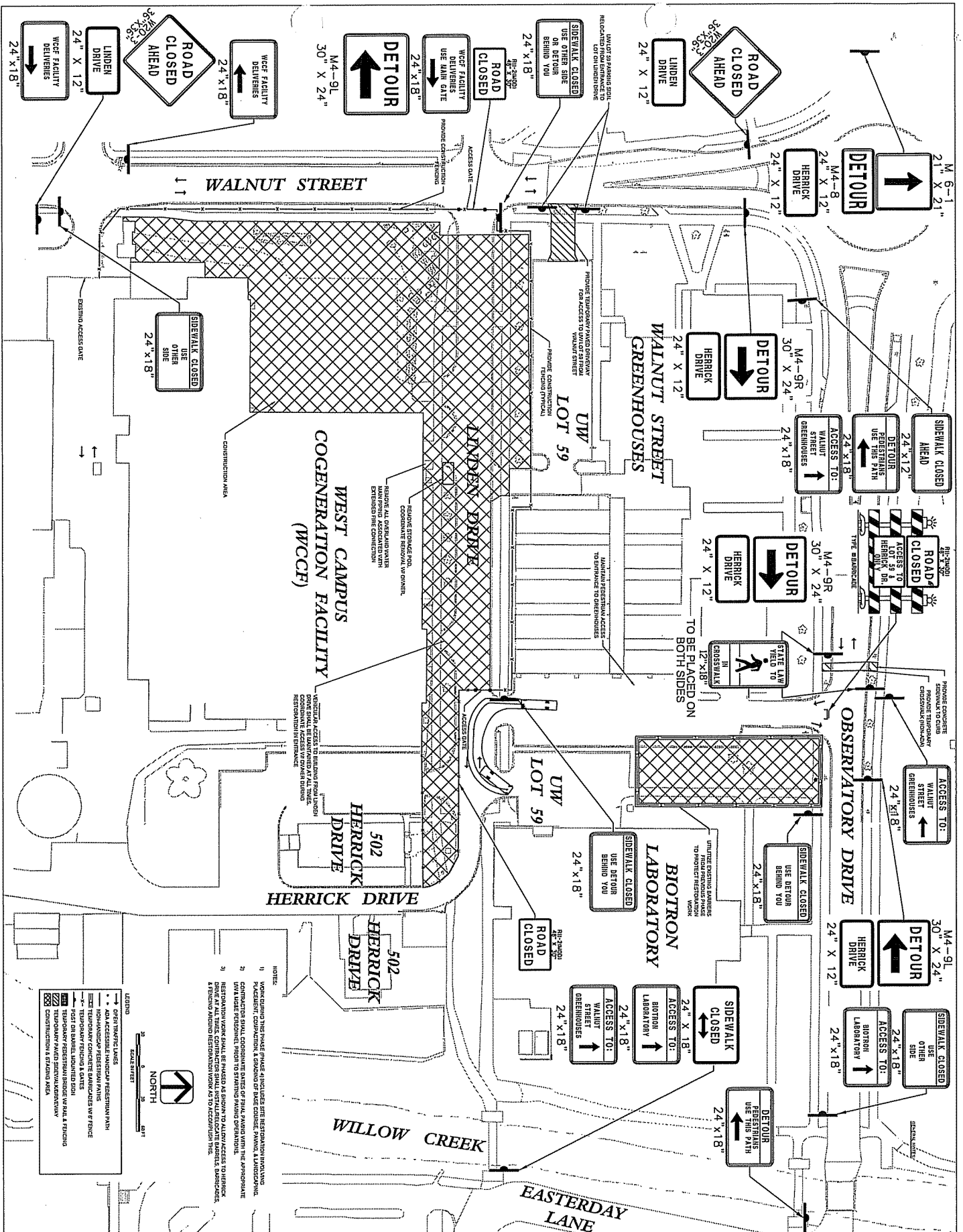
Date: 03/07/2012

Sheet Title: SITE DEVELOPMENT LAYOUT - PHASE 3

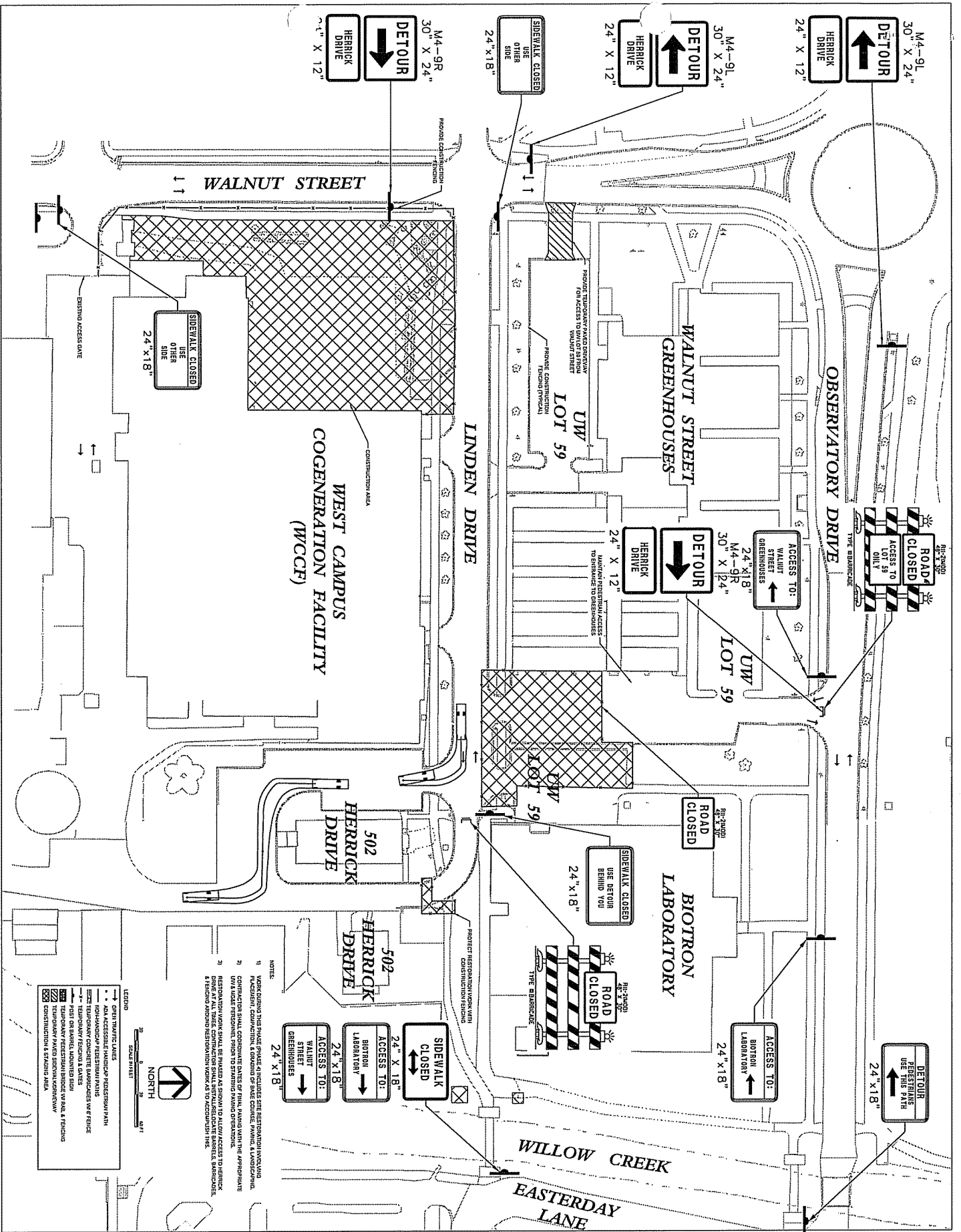
State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

Revision	Date	Description



WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN		State of Wisconsin Department of Administration Division of State Facilities
Project No: CO23 Date: 03/07/2012 Scale: 1" = 30'-0" Drawing: LDK/H Type: CIP		
WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN SHEET TITLE: SITE DEVELOPMENT LAYOUT - PHASE 4		UNIVERSITY OF WISCONSIN SYSTEM UNIVERSITY OF WISCONSIN - MADISON



- NOTE:**
- 1) WORK DURING THIS PHASE INCLUDES SITE RESTORATION INCLUDING REGRADING, CONSTRUCTION & REMOVAL OF BARGE CANALS, PAVING & LANDSCAPE.
 - 2) CONTRACTOR SHALL CONDUCT DAILY VISUAL MONITORING WITH THE APPROPRIATE AGENCIES TO MONITOR AND REPORT ON ANY POTENTIAL IMPACTS TO THE ENVIRONMENT.
 - 3) CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES, SERVICES, & RECORDS AND RESTORATION WORK AS TO ACCORDANCE WITH THE.

LEGEND

[Symbol]	EXISTING TRUCK TRAIL
[Symbol]	NEW ACCESSIBLE HANDICAP RESTROOM PATH
[Symbol]	TEMPORARY CONCRETE BARRICADES WITH FENCE
[Symbol]	TEMPORARY FENCING & GATES
[Symbol]	TEMPORARY RESTROOM BENCH, URINAL, & TOILET
[Symbol]	TEMPORARY PAVED SIDEWALK/BIKEWAY
[Symbol]	CONSTRUCTION & STAGING AREA

Project No.	C024
Date	03/07/2012
Scale	1" = 30'-0"
Author	10K/H
Check	CJP
Drawn	
Reviewed	
Approved	
Sheet Title	WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN
Project Title	SITE DEVELOPMENT LAYOUT - PHASE 4 (CONTINUED)

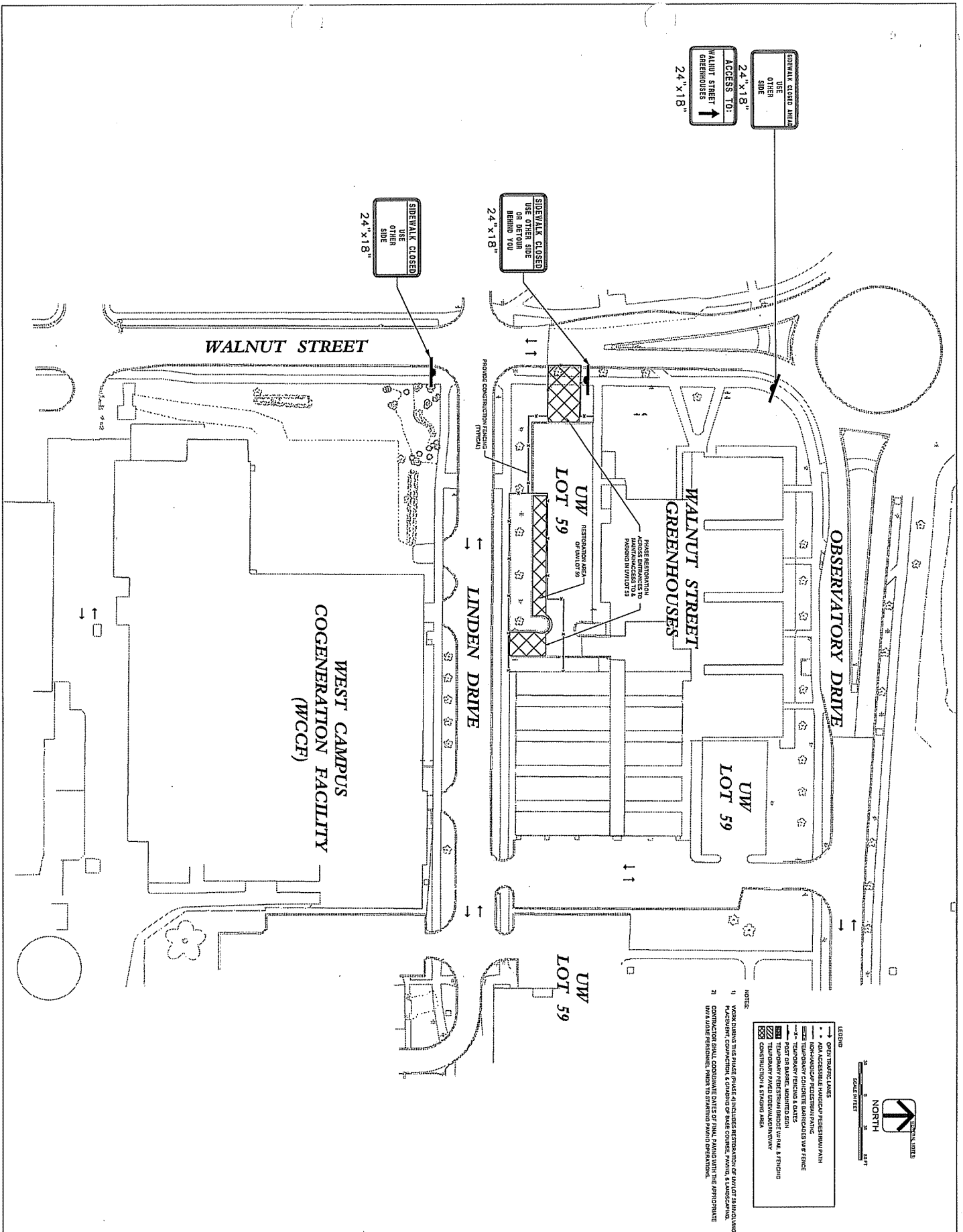
WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN

State of Wisconsin
Department of Administration
Division of State Facilities

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

AEI Affiliated Engineers
1000 University Avenue
Madison, WI 53706
Phone: 608.263.1111

ARES ASSOCIATES
1000 University Avenue
Madison, WI 53706
Phone: 608.263.1111



24" x 18"
 SIDEWALK CLOSED AREA
 USE OTHER SIDE

24" x 18"
 ACCESS TO:
 WALNUT STREET
 GREENHOUSES

24" x 18"

SIDEWALK CLOSED
 USE OTHER SIDE

24" x 18"

SIDEWALK CLOSED
 USE OTHER SIDE
 OR DETOUR
 BEHIND YOU

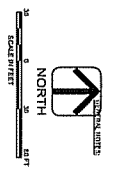
24" x 18"

LEGEND

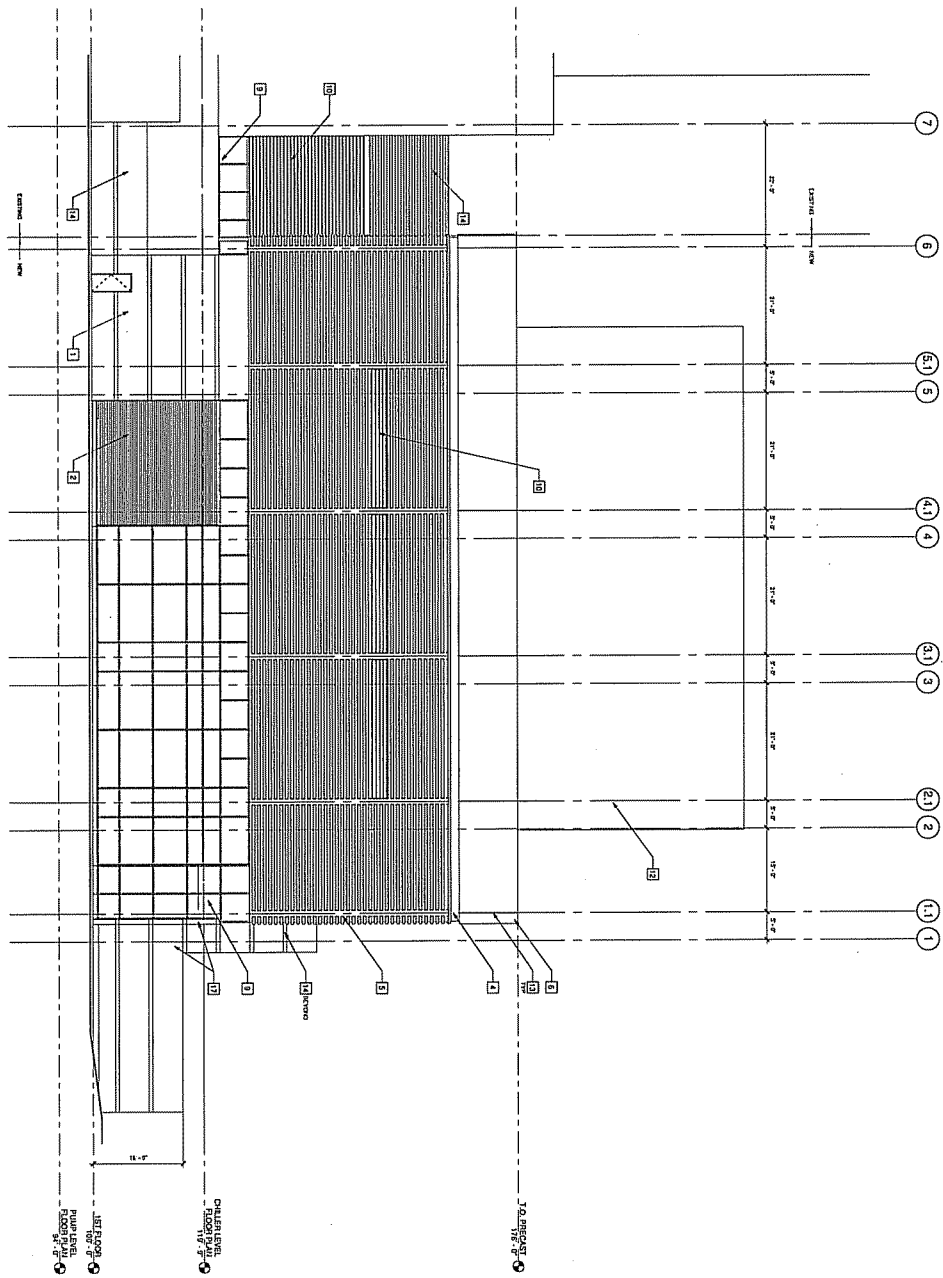
- GREAT PLUMBING LINES
- ADV. ACCESSIBLE HANDICAPED PEDESTRIAN PATH
- HANDICAPED PEDESTRIAN PATH
- TEMPORARY FENCING & BARRIERS
- POST ON BARRIERS, LOCATED 20 FT FROM TEMPORARY PEDESTRIAN UNDERWAY
- TEMPORARY PEDESTRIAN UNDERWAY
- TEMPORARY PAVED PEDESTRIAN UNDERWAY
- CONSTRUCTION SIGN & BARRIERS

NOTES

- 1) WORK DURING THIS PHASE INCLUDES RESTORATION OF WALNUT ST INCLUDING PAVEMENT, EXCAVATION & EASEMENT OF PACE CORNER, PAVING, & LANDSCAPING.
- 2) CONTRACTOR SHALL COORDINATE DATES OF PAUL PAVING WITH THE APPROPRIATE DIVISIONS TO AVOID CONFLICTS WITH OTHERS.




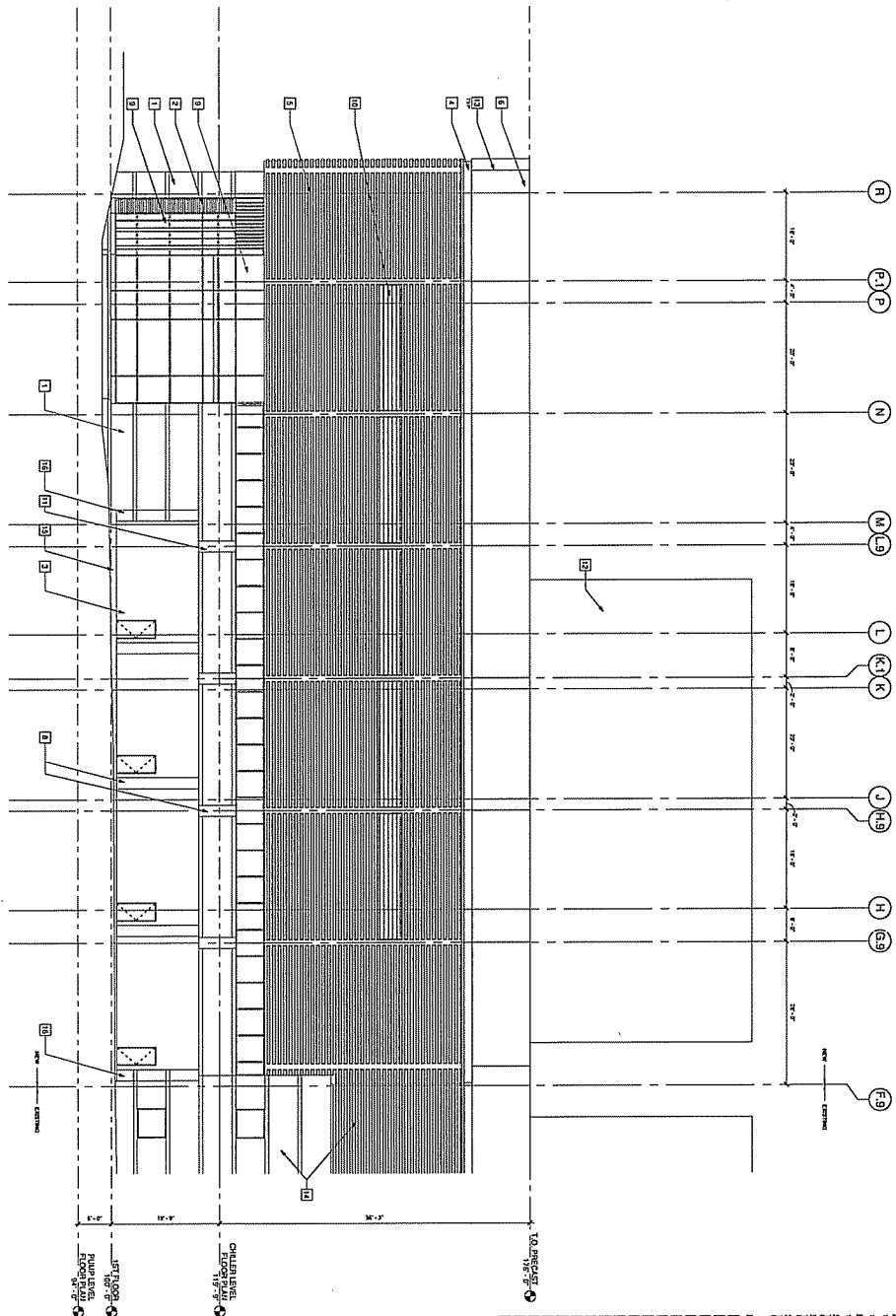
WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN		State of Wisconsin Department of Administration Division of State Facilities	AES Affiliated Engineers 1000 University Avenue Madison, WI 53706
Sheet Title: SITE DEVELOPMENT LAYOUT - PHASE 4 (CONTINUED)		UNIVERSITY OF WISCONSIN SYSTEM UNIVERSITY OF WISCONSIN - MADISON	
Project: C025	Date: 03/07/2012	Scale: 1" = 30'-0"	Designer: LDK/H



1 NORTH ELEVATION
SCALE 1/8\"/>

- LEGEND:**
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<p>WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION</p> <p>UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN</p> <p>DATE: 03/07/2012</p> <p>PROJECT NO.: A201</p>	 State of Wisconsin Department of Administration Division of State Facilities	<p>AS1 Affiliated Engineers</p> <p>Patricia Lawson Licensed Professional Engineer State of Wisconsin License No. 28000</p>	<p>KEY PLAN:</p>
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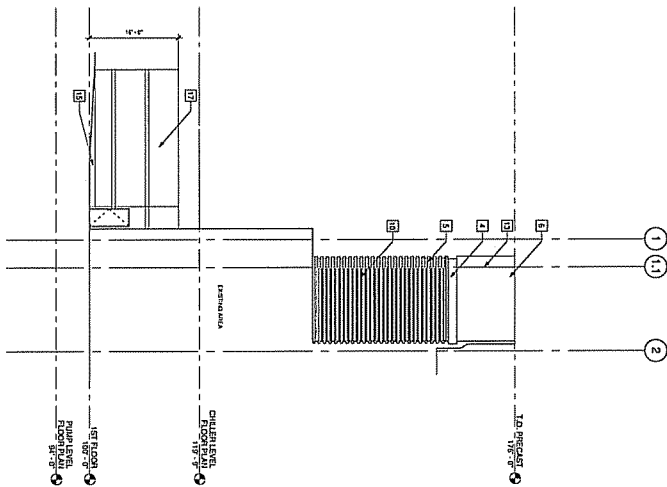
2 WEST ELEVATION
1/8" = 1'-0"

- REVISIONS:**
- 1. CHILLER LEVEL
 - 2. PLANT LEVEL
 - 3. JUST TOP OF
 - 4. JUST BOTTOM OF
 - 5. TO ROOF
- NOTES:**
1. CHILLER LEVEL
 2. PLANT LEVEL
 3. JUST TOP OF
 4. JUST BOTTOM OF
 5. TO ROOF

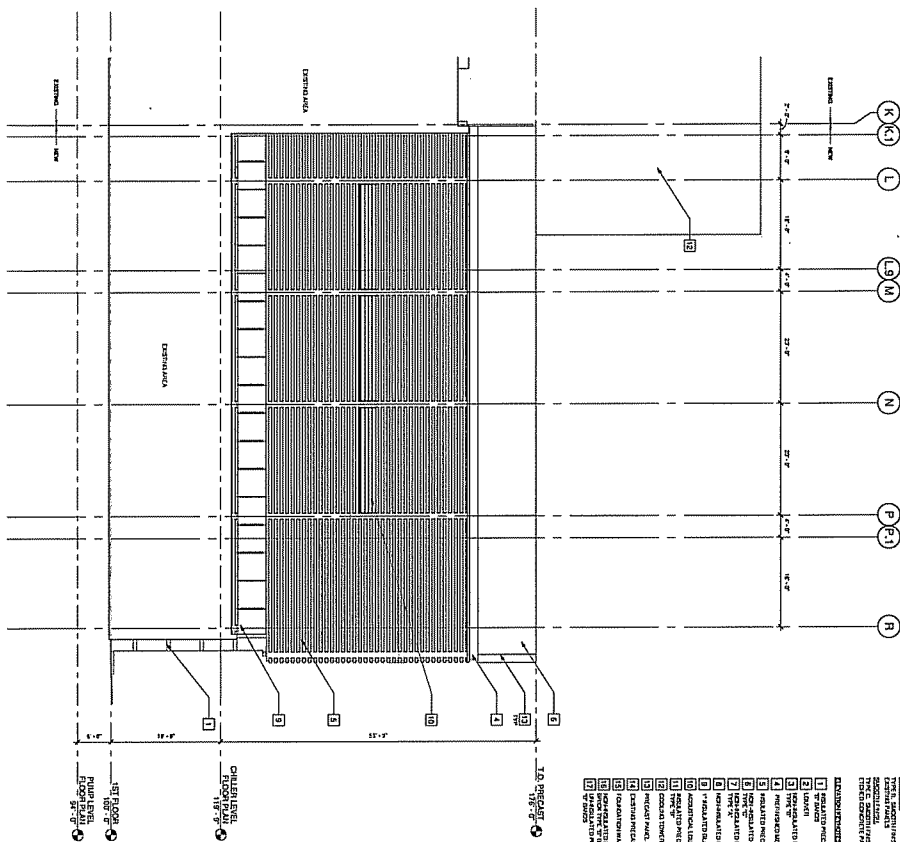
02/17/2012 1:00 PM

State of Wisconsin Department of Administration Division of State Facilities		Project Location: UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN EXTERIOR ELEVATIONS	
Project Name: WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION		Project Number: UNIVERSITY OF WISCONSIN SYSTEM UNIVERSITY OF WISCONSIN - MADISON	
Date: 10/14/11	Drawn By: CJP	Checked By: CJP	Project Number: A202

2 SOUTH ELEVATION
1/8" = 1'-0"



1 EAST ELEVATION
1/8" = 1'-0"



- GENERAL NOTES:**
1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL MATERIALS AND FINISHES.
 2. REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT.
 3. REFER TO ELECTRICAL DRAWINGS FOR ALL ELECTRICAL EQUIPMENT.
 4. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING EQUIPMENT.
 5. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL EQUIPMENT.
 6. REFER TO CIVIL DRAWINGS FOR ALL CIVIL EQUIPMENT.
 7. REFER TO LANDSCAPE ARCHITECTURE DRAWINGS FOR ALL LANDSCAPE ARCHITECTURE EQUIPMENT.
 8. REFER TO INTERIOR ARCHITECTURE DRAWINGS FOR ALL INTERIOR ARCHITECTURE EQUIPMENT.
 9. REFER TO EXTERIOR ARCHITECTURE DRAWINGS FOR ALL EXTERIOR ARCHITECTURE EQUIPMENT.
 10. REFER TO FINISHES DRAWINGS FOR ALL FINISHES EQUIPMENT.
 11. REFER TO SCHEDULES FOR ALL SCHEDULES EQUIPMENT.
 12. REFER TO SPECIFICATIONS FOR ALL SPECIFICATIONS EQUIPMENT.
 13. REFER TO CONTRACT DOCUMENTS FOR ALL CONTRACT DOCUMENTS EQUIPMENT.
 14. REFER TO ALL OTHER DRAWINGS FOR ALL OTHER EQUIPMENT.

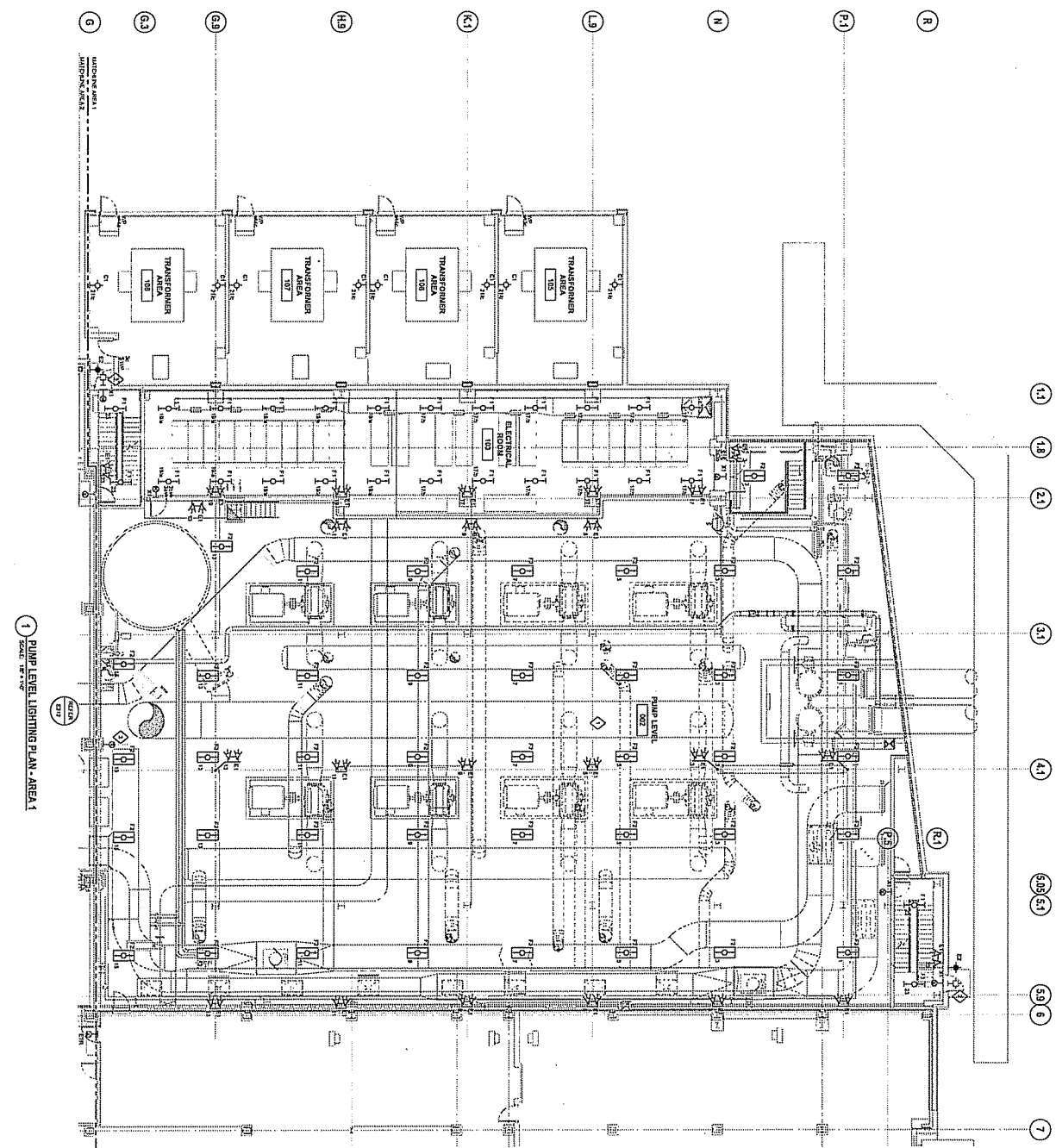
Project No.	10N11
Client	CUA
Date	02/27/2012
Sheet No.	A203
Scale	1/8" = 1'-0"
Author	
Checker	
Designer	
Engineer	
Architect	
Structural	
Mechanical	
Electrical	
Plumbing	
Civil	
Interior Architecture	
Exterior Architecture	
Landscaping	
Other	

WEST CAMPUS COGENERATION FACILITY
ADDITION AND CHILLER INSTALLATION
UNIVERSITY OF WISCONSIN-MADISON
MADISON, WISCONSIN
EXTERIOR ELEVATIONS

State of Wisconsin
Department of Administration
Division of State Facilities
UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON



KEY PLAN:

AAE
Architectural
Engineers
PETER J. JANSSEN
ARCHITECTS
SOUTH BEND, INDIANA

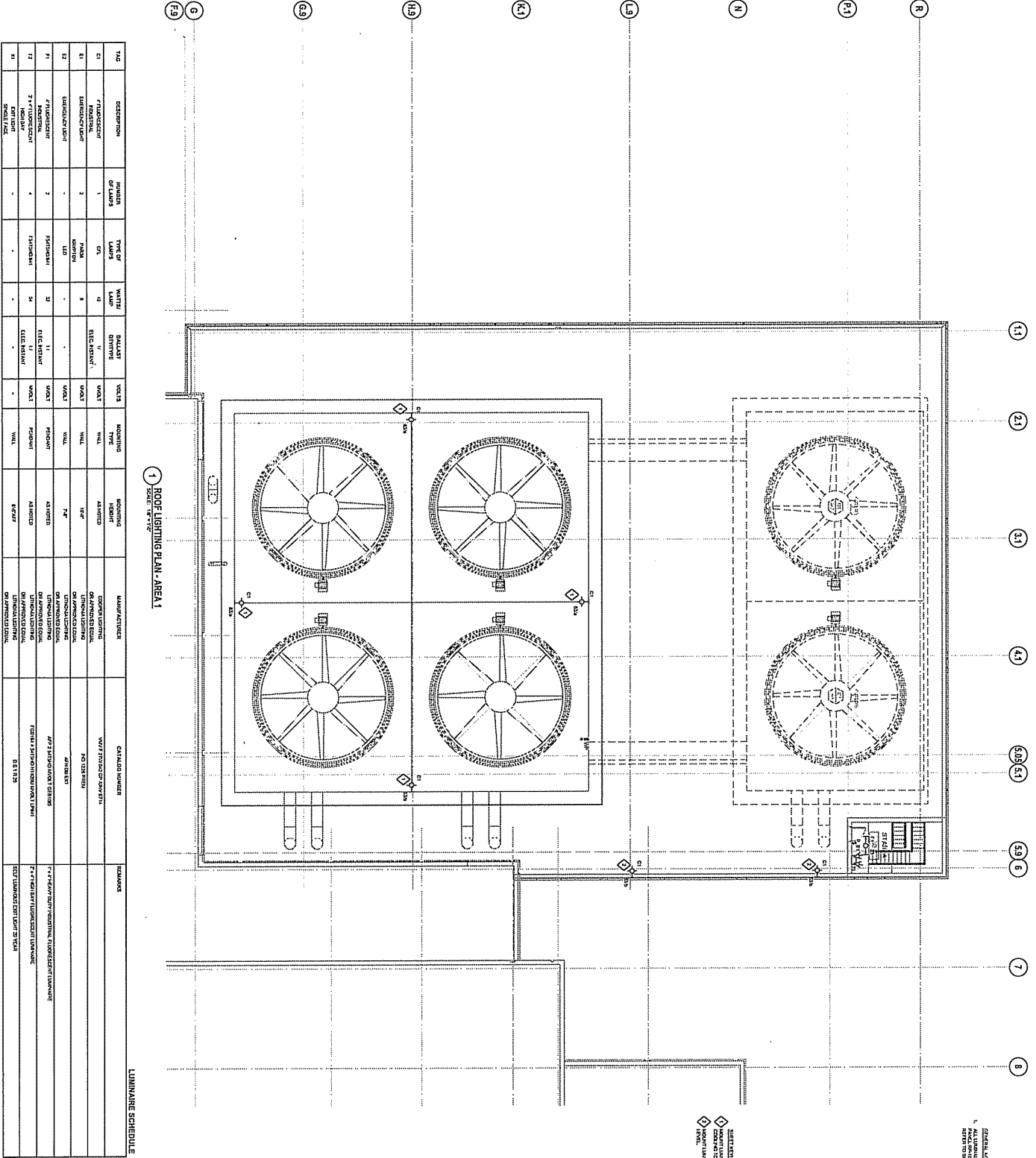


- REMARKS:**
1. ALL DIMENSIONS SHOWN ON THIS PLAN ARE TO FACE UNLESS OTHERWISE NOTED.
 2. REFER TO SHEET E211 FOR LOCATION OF WALLS.
 3. REFER TO SHEET E211 FOR LOCATION OF DOORS.
 4. REFER TO SHEET E211 FOR LOCATION OF WINDOWS.
 5. REFER TO SHEET E211 FOR LOCATION OF CEILING.
 6. REFER TO SHEET E211 FOR LOCATION OF FLOOR.
 7. REFER TO SHEET E211 FOR LOCATION OF ROOF.

- NOTES:**
1. LIGHTING FIXTURES SHOWN ON THIS PLAN ARE TO FACE UNLESS OTHERWISE NOTED.
 2. REFER TO SHEET E211 FOR LOCATION OF WALLS.
 3. REFER TO SHEET E211 FOR LOCATION OF DOORS.
 4. REFER TO SHEET E211 FOR LOCATION OF WINDOWS.
 5. REFER TO SHEET E211 FOR LOCATION OF CEILING.
 6. REFER TO SHEET E211 FOR LOCATION OF FLOOR.
 7. REFER TO SHEET E211 FOR LOCATION OF ROOF.

 State of Wisconsin Department of Administration Division of State Facilities		 AECI Affiliated Engineers	
WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN		UNIVERSITY OF WISCONSIN SYSTEM UNIVERSITY OF WISCONSIN - MADISON	
Sheet Title: PUMP LEVEL LIGHTING PLAN - AREA 1			
Scale:	1/8" = 1'-0"	1/4" = 1'-0"	1/2" = 1'-0"
Drawn By:	LOKH	Checked By:	LOKH
Date:	02/07/2012	Project No.:	E211

18



1 ROOF LIGHTING PLAN - AREA 1
SCALE: 1/8" = 1'-0"

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	NUMBER OF LAMPS	TYPE OF LAMP	VOLTS	BALLAST	ROOFING TYPE	ROOFING HEIGHT	MANUFACTURER	DETAIL NUMBER	REMARKS
E1	FLUORESCENT RECESSED	1	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E2	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E3	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E4	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E5	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E6	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E7	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E8	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E9	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E10	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E11	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E12	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	
E13	FLUORESCENT RECESSED	2	FLUORESCENT	120	1	FLUORESCENT	AS NOTED	GENERAL LIGHTING OR AMBIENT LIGHTING	NO DETAIL	

2 LUMINAIRE SCHEDULE
SCALE: 1/8" = 1'-0"

WEST CAMPUS COGENERATION FACILITY ADDITION AND CHILLER INSTALLATION UNIVERSITY OF WISCONSIN-MADISON MADISON, WISCONSIN

UNIVERSITY OF WISCONSIN SYSTEM
UNIVERSITY OF WISCONSIN - MADISON

State of Wisconsin
Department of Administration
Division of State Facilities

AEI
Architectural Engineers Inc.
1000 Wisconsin Avenue, Suite 1000
Madison, WI 53706
TEL: 608/263-1111
WWW.AEIENGINEERS.COM

SHEET TITLE:
ROOF LIGHTING PLAN - AREA 1

DATE:
03/07/2012

PROJECT NUMBER:
E231