

## Tab 4

### Zoning Text

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#### Statement of Purpose

This document rezoning land parcel from R5 and C3, to a new PUD/GDP/SIP is established to encompass the new operations proposed for the Charter Street Heating Plant Rebuild Project.

#### Permitted Uses

The permitted use of this PUD/GDP/SIP shall include the following:

- a) Public utility and services uses, including but not limited to the generation of steam heat, chilled water and electricity
- b) Electric substations
- c) Storage, handling and warehousing of solid fuel
- d) Railroad operations facilities
- e) Accessory uses related thereto, including temporary building for storage of building materials and equipment for construction purposes

#### Lot Area, Bulk and Yard Requirements

Lot area, building heights, floor area ratio; front, side, and rear yards; and open space shall be as shown on the approved specific implementation plans.

#### Off-Street Parking and Loading

Off-street parking for plant personnel and off-street loading to maintain required plant operations will be provided as shown on the approved specific implementation plans.

#### Landscaping

Landscaping will be designed in accordance with City of Madison ordinance for public ROW lands, and as shown on the approved specific implementation plans.

#### Exterior Lighting

Exterior lighting will be designed in accordance with City of Madison ordinance for public ROW lands, as shown on the approved specific implementation plans.

#### Exterior Signage

Exterior signage will be designed in accordance with City of Madison ordinance for public ROW lands, as shown on the approved specific implementation plans.

#### Alterations and Revisions

No alteration or revision of this GDP and subsequent SIP shall be permitted unless approved by the City Plan Commission. However, the Zoning Administrator may approve minor alterations which are approved by the Director of Planning and Development and the district Alderperson and are compatible with the concept stated in the underlying GDP/SIP approved by the Plan Commission.

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#### Project Summary

The scope of the Charter Street Heating Plant Rebuild (CSHP) Project is to replace the steam capacity of existing coal fired boilers by constructing a new biomass boiler which will produce 350,000 lbs/hour of steam and two package boilers which will have a steam capacity of 225,000 lbs/hour for each boiler. The total steam production capacity of CSHP will be increased to 1,150,000 lbs/hour of steam by the end of the year 2013.

The steam will be used to generate electricity heat UW Madison campus buildings and produce chilled water for cooling. The new boiler will be housed separately from the existing boilers in a new Boiler #8 Building. The package boilers will also be housed in a new building called Dayton St. Building.

An existing 300,000 lbs/hr rated Boiler 5 which burns natural gas and has the capability to burn ultra low sulfur distillate oil as backup fuel will remain in operation.

The existing coal fired boilers will either be removed or retired.

A new steam turbine driven electrical generator will be installed in the Dayton St. Building with the package boilers. This generator will provide additional electrical capacity for UW Campus consumption.

The Project will also upgrade the rail delivery system at the site and provide a fuel handling system for biomass fuels with an on-site storage capacity for three to four days of use. The proposed rail delivery system includes modifications to the WSOR rail line extending from North Charter Street to West Washington Ave., including widening of the North Park Street bridge for a new main rail line, two sidings for rail car handling between North Park Street and West Washington Ave., and an adjustment in the location of the Southwest Bike Path located in the railroad right-of-way, east of the Campus Mall.

#### Project Background

The State of Wisconsin conducted a planning study for the main heating plants servicing the UW-Madison campus and other state office buildings. The study was a result of an agreement between Departments of Administration, the Department of Natural Resources, the University of Wisconsin and the Sierra Club to analyze the feasibility of alternatives to bring the CSHP into compliance with the Clean Air Act and for making necessary upgrades to other state owned heating plants in Madison, Wisconsin.

Independent of the study, the state decided to phase out the use of coal at the CSHP and to increase fuel diversity, primarily by the inclusion of significant renewable biomass resources in the plant's fuel mix.

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#### Plant Description Overview

The existing Charter St. Heating Plant (CSHP) project site is located in the City of Madison, Wisconsin. The site is surrounded by a mixture of University of Wisconsin campus buildings, and privately owned student housing apartment buildings. A main railroad track with railcar storage spur tracks are located adjacent to the site to the north, south and east.

The CSHP is believed to have been constructed in the year 1957 with the installation of three coal burning boilers. An additional coal burning boiler was installed in the year 1965. A natural gas and fuel oil burning boiler was installed in 1970. At the southwest side of the site, chilled water equipment and large elevated industrial cooling towers were installed in the years 1966 and 1973.

The chilled water is distributed through the campus underground distribution system to cool UW Madison campus buildings.

#### New Boiler Unit(s) of Capacity at 350,000 #/hr

The Project will include the installation of a new water-cooled vibrating grate Boiler Unit #8 at 350,000 lbs/hr, fueled by biomass fuel and/or natural gas with ultra low sulfur distillate oil back-up. Air pollution control equipment for SO<sub>x</sub>, NO<sub>x</sub>, and particulates including a single new double flue stack. Current design plans consider the addition of a future Boiler Unit #9 of similar capacity.

#### New Boiler Units of Capacity at 225,000 #/hr

The Project will include the installation of two New Package Boilers – Units # 6 & # 7. Each boiler will have a steam production capacity of 225,000 #/hr, fueled by natural gas with ultra low sulfur distillate oil as a back-up. Air pollution limits for NO<sub>x</sub> will be met by using the flue gas recirculation type of air pollution control equipment. Limits for SO<sub>x</sub>, CO, VOC and Particulates will be met without using any air pollution control equipment.

#### New Steam Turbine Generator(s)

The Project includes the addition of a New Steam Turbine Generator Unit #2. The steam turbine is a controlled extraction back pressure type. The electrical generator will have a nominal capacity of 22 MW. The Project will provide space and connections for the future installation of Steam Turbine Generator Unit #3 of similar capacity.

#### Fuel System Conversion

The Project includes the conversion of the coal fuel handling system to a biomass fuel system. This work will include the:

- Demolition of the existing coal handling and storage system
- Demolition of the FPM Building at 115 Mills Street for a new biomass fuel receiving and handling system

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- Construction of new biomass fuel receiving, unloading, storage, handling and conveying systems and equipment including a rotary car unloader.

The Project also includes adjacent off-site rail and bike path construction and related Project work. It is anticipated that mainline rail expansion and industrial track storage spurs work will be on rail road right-away and will be under the direction of the local railroad.

### Biomass Fuel Utilization

The Project includes the effective and efficient utilization of biomass fuels. This includes finalizing the determination of biomass fuel specifications and fuel quality analyses ranges and maximums. These parameters will be defined and refined as the project proceeds.

### Coordination and Interface with Existing Operations

This Project needs to be completed and coordinated with the existing plant operations and capacity for steam and cooling supplies being maintained and in service. The new plant Project tie-ins and conversions will be required to tie into the existing plant systems and U W Systems are part of this Project.

### Electric Distribution System Enhancements

The Project also includes plant electric distribution systems enhancements and modifications, including a new substation to be installed in a location to be determined in the future. An evaluation is underway which considers a location across the street from the existing boiler building on the north side of Dayton St.; and other locations including in the areas of the existing boiler building, and the new Package Boilers / Steam Turbine Generator building.

### Water Treatment System Enhancements

The Project will include the installation of a New Water Treatment System, to replace the existing one.

### Cooling Tower System Enhancements

The Project will include the installation of a New Cooling Tower Unit #6, to replace existing Cooling Towers Units 1, 2 & 3. The New Cooling Tower #6 will have increased cooling capacity.

### Standby Electricity System Enhancements

The Project will include the installation of a new diesel engine driven electrical generator with a projected capacity of 1 MW of electricity. There is an existing diesel engine driven electrical generator with a 1 MW electrical capacity.

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#### Plant Operations Overview

The Charter Street Heating Plant (CSHP) operates continuously year round, providing steam, chilled water and electricity for the University of Wisconsin Madison campus buildings. Staff is on site 24 hours, 7 days a week.

#### Secure Regulated site

The CSHP is operated by University of Wisconsin personnel on a secure site, with full site enclosure, and no public access. The plant operates under an Air Permit regulated by the State of Wisconsin Department of Natural Resources Bureau of Energy.

#### On-site Buildings and Equipment Enclosures

The rebuilt CSHP will include the construction of several new buildings, equipment enclosures, and structures to store and convey bio-fuel, and to secure the site. With the exception of the wood chip fuel delivery operations described below, all operations of the plant occur on site within the site enclosure, including staff parking. No un-supervised public access will be allowed.

#### Operating Personnel

Generally, the staff that operates the existing plant will be retained and trained to operate the new plant. In the current plant, there are typically a maximum of about 14 personnel on site during the day and about 4 over the night shifts. Personnel monitor the plant equipment from a central location within the plant. The rebuilt plant will operate in much the same way, with a similar staff size.

#### Safety Protocols

The rebuilt CSHP will be built in accordance with all current building codes and standards, and operate under an air permit regulated by the DNR, and in compliance with all other regulations in effect. Design for this plant occurred with the input of all Authorities Having Jurisdiction.

New buildings and conveyor galleries will be designed to be equipped throughout with fire protection systems and other safety features requested by the Madison Fire Department and the Wisconsin Department of Commerce.

A new private underground fire hydrant system with diesel engine driven and electric jockey fire water pumps will be installed.

The design of the entire facility is "above code minimum" for systems and features related to safety.

Maintenance and inspection of equipment and systems occur on a periodic basis. Emergency operations plans will be updated. The City of Madison Fire Department conducts routine inspections of the facility on a regular basis.

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#### Fuel Delivery Operations – Overview

The rebuilt plant will burn blended wood chips, agricultural and paper pellets, and Tire Derived Fuel chips (in the future).

The rebuilt plant will include a fuel handling yard on the east side of Mills Street, which has direct access to the WDOT land on which the WSOR railroad operates.

The conversion to bio-fuel will result in change that will be the most obvious to the public. The current coal fired plant burns on average the equivalent of 3 rail cars of coal a day to meet the demand for power. There is a large stockpile of coal on the existing site which provides several days worth of inventory fuel on site, so rail delivery of the coal fuel occurs roughly weekly. The rail line runs through the site, and the coal is off-loaded on site.

The quantity of bio-fuel required to produce the equivalent energy from coal fuel is significantly greater by volume. It is anticipated that at peak operation, the plant will require 28-34 rail cars of fuel each day.

A remote fuel depot will receive process, store and load the biomass fuel for delivery to the CHSP in Madison.

#### Delivery Operations – Rail

The majority of wood chips will be supplied by open top railcar and emptied utilizing a side rail car dumper. The fuel will be received into the Railcar Dumper Hopper. The hopper can hold a complete railcar contents and will discharge onto an Unload Conveyor. From the Unload Conveyor, the biomass fuel will travel to the Incline Conveyor. The Incline Conveyor discharges to the Upper Distribution Gate which directs it to the Wood Fuel Silo Feed Conveyor. The Wood Fuel Silo Feed Conveyor then directs the biomass to Wood Fuel Silo No.1 or No.2 based on silo inventories. An alternate process flow is to flop the Upper Distribution Gate, biomass travels to the Lower Distribution Gate where it goes into the Pellet Silo.

The anticipated delivery operation at peak design capacity is to receive and unload two to three trains per day, with up to 16 railcars of fuel in each train. Two rail sidings within the existing WDOT rail corridor will be used for the delivery and unloading operations, one for full cars, the other for empty cars. When a train arrives to deliver 16 full cars, it will pull 16 empty cars away and return them back to the fuel yard outside of Madison. Full rail cars will be pulled from the rail siding to the unloader building located on the fuel handling site via track-mobile in strings of 4 cars at a time

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#### Delivery Operations – Truck

Normally, wood pellets, paper pellets, agriculture waste pellets and TDF chips (future) will be shipped from the manufacturer's source by truck, although railcar deliveries of pellets and TDF chips (future) are feasible. Fuel pellets and TDF chips (future) will be weighed then discharged directly into a truck dumper reclaim hopper. Fuel from the hopper will be metered onto the Truck Dump Conveyor. A chute will transfer the pellets to the Unload Conveyor. From the Unload Conveyor, the pellets will travel to the Incline Conveyor. The Incline Conveyor discharges to the Upper Distribution Gate which directs it to the Lower Distribution Gate and to the Pellet Silo.

Trucks will be processed by entering the CSHP site where they will be weighed on a scale located near the south side of the site. They will then enter the Fuel Handling yard by crossing North Mills Street. They will maneuver within the yard so as to back into the fuel handling building where they will off-load the fuel via live bottom off-loader into the fuel hopper, where it is then conveyed to the appropriate storage silo. Once emptied, the truck will re-weigh on a scale located in the Fuel Handling yard, and then leave the yard and facility. It is anticipated that under normal planned operations, the number of trucks that will unload fuel as described above will be in the range of 4 to 15 per day. It is possible to receive and unload wood chip fuel via truck in the event of an emergency, such as an event were rail delivery is not possible, but this would occur only in this circumstance.

#### Delivery Operations – Other Fuels

The new Boiler #8 is designed with the capability to burn a mix of fuels, which include fuel categories of ADF/PDF (agriculturally derived fuels/pelletized derived fuels), wood pellets, natural gas and ultra low sulfur distillate (ULSD) oil, in addition to the wood chips. New Package Boilers 6 and 7 will burn natural gas and have the capability to burn ULSD as a back-up/emergency fuel.

ULSD oil will be stored on the CSHP site as a back-up emergency fuel. This fuel will be delivered via tanker truck in a manner similar to other fuels, where truck arrives, weighs in, unloads, re-weighs, then leaves the site. Since this fuel is designed for use as an emergency fuel, daily delivery of this fuel is not required or anticipated. ULSD oil has a shelf life and it will be necessary to burn the fuel at intervals so as to maintain a usable supply of this fuel at all times.

Natural gas is available at the site and does not require special means for delivery.

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#### Delivery Operations - Plant related

The new Boiler 8 will have Fly ash and bottom ash as bi-products of combustion. Limestone or sodium bicarbonate will be used to treat the gaseous mixture exiting the boiler to reduce pollutants. Aqueous ammonia is used on site as well as water treatment chemicals.

Silos located in an open area between the existing Charter St. Heating Plant building and the new Boiler 8 will hold the limestone or sodium bicarbonate, aqueous ammonia, fly ash, and bottom ash. These materials will arrive or leave the site via truck of the appropriate type for the product being moved. The daily trucking activities for all of these materials will be in the range of 4 to 5 trucks per day at peak plant operation.

Chemicals used for water treatment will arrive by smaller size delivery truck on interval as needed. Chemicals are brought into the building by hand truck and stored in appropriate containers.

There are no other regular trucking activities required in the operation of the Plant beyond that described above.

#### Emissions Controls

The #8 Boiler will implement the following emissions control equipment:

- Fabric Filter Baghouse for particulate control
- Selective Catalytic Reactor for NOx control
- Oxidation Catalyst for CO Control
- Sorbent Injection for Acid Gas Control (if required)

The systems above are proven technology and represent the equipment prescribed in the air permit application submitted to the Wisconsin Department of Natural Resources.

The new 225,000 lbs/hr each Package Boilers will primarily burn natural gas. Air pollution limits for NOx will be met by using the flue gas recirculation type of air pollution control equipment. Limits for SOx, CO, VOC and Particulates will be met without using any air pollution control equipment.

#### Noise Control

The City of Madison Noise Control Regulation (Chapter 24, Section 24.08 in the Code of Ordinances) provides the regulatory framework governing noise emissions within the city. The maximum allowable daytime and nighttime sound levels of a continuous sound located across the street from the site within residential developments are listed in the Table below



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**Maximum Allowable Sound Level – City of Madison  
 (Within Residential Developments)**

Receiving Zone Classified	Source Level Zoned	Maximum Permitted Sound Level (dBA)
Residential, Conservancy, Wetlands, PCD, PUD, Planned Community Mobile Home Park District	All Zoning Districts	65 (Day or Night)

In addition, a reduction of 5 dB(A) will apply to the above for impulse noises. An impulse noise is defined as a sound of short duration, usually less than one second, with an abrupt onset and rapid decay. Examples include explosions, drop forge impacts and the discharge of firearms.

The ordinance contains an exemption from the 65 or 60 dB(A) noise limit for construction purposes between the hours of 7:00 am and 7:00 pm of any day of the year.

Sound levels at the existing CSHP are similar to those at other industrial plants. Sound level measurements in the community surrounding the plant were taken continuously for twenty-four hours between 6:00 pm on January 26, 2010 and 6:00 pm on January 27, 2010. The sound level measured included both noise from the CSHP, as well as street traffic noise from trucks, cars, busses and Vespa motorized scooters. Due to the cold January weather, the CSHP chillers and cooling towers were not operating during the ambient noise survey.

Noise levels were measured in 7 different locations around the perimeter of the proposed site. The highest existing noise level measured was 58 dB(A), measured at two locations. One was at the intersection of Dayton St and Mills St, on the northwest corner in the general area of a University of Wisconsin Noland Zoology campus building. The other was on the west side of Charter St. and east side of the Weeks Hall for Geological Sciences campus building.

Other measured values ranged from 50 to 54 dB(A). For comparison, 55 dB(A) is the approximate level of a quiet subdivision during daylight hours.

To comply with the City of Madison Noise Ordinance, various techniques for attenuating noise will be performed as part of the project. Some equipment will be installed in the buildings' concrete wall basements. Other sound sources will have noise attenuating mufflers and silencers. Special noise attenuating gas ducts and building wall louvers will be installed where required.

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In summary, after the project has been completed, the continuous noise that residences located across the street from the project will not exceed 65 dB(A) during the day or night; and will not exceed 60 dB(A) day or night for impulse noises.

#### Dust Control and Deflagration System

Many of the fuels characterized as biomass derived fuels are considered dust generating fuels. For this reason consideration in the air permit, fire protection design, and safety of personnel and equipment dust control and deflagration equipment has been included with the scope of the project.

To contain and remove dust generated during the unloading, and transfer of the biomass fuels used on the site a vacuum collection system will be installed. The primary components for this system are induced draft fans and filter baghouses. The site will have three separate systems due to the proximity requirements of the systems. The systems will be located as follows:

- Baghouse 1 – Near the fuel unloading area east of Mill Street
- Baghouse 2 – Near the fuel silos east of Mill Street
- Baghouse 3 – Near the #8 Boiler on the roof of the proposed Dayton Street Building

Baghouse 1 will primarily be used to remove dust created during the unloading of trucks and rail cars in the Unload Building. Vacuum generated by the ID Fan will carry the dust to the baghouse filter via round ductwork and separate it from the air prior to the air being discharged. In addition to the vacuum system used on the rail unload area, a fogging system is being proposed to augment the dust control system. This is still under investigation.

Baghouse 2 will primarily be used to remove dust from the conveyor transfer points located above and below the fuel silos. The dust will be drawn to the baghouse from pickup points above and below each conveyor transfer point by the ID fan. Once the dust is filtered from the air it can be discharged back to the atmosphere.

Baghouse 3 will primarily be used to remove dust from the conveyor transfer points located above and below on the west side of Mills Street. The dust will be drawn to the baghouse from pickup points above and below each conveyor transfer point by the ID fan. Once the dust is filtered from the air it can be discharged back to the atmosphere.

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Dust from combustible materials creates a safety risk due to its ability to rapidly combust and expand the air volume in confined areas (explode). The conveying, storage, and dust collection systems being provided for the Charter Street Heating Plant will contain measures to minimize the risk to the employees, the public, and the equipment for this to occur. These items will include explosion relief panels, explosion suppression canisters, as well as the dust collection system which will limit the fuel for such events. The design will be within the recommended guidelines stated by NFPA, and the industry standards for this type of installation.

### Required Lighting and Light Pollution

By safe practice, interior lighting of buildings and structures that require daily routine inspection at all work shifts will remain on constantly at a safe ambient light level. It is anticipated that Fuel Handling operations will occur during the day, so the Fuel Handling Yard not be in operation at night, and will only be illuminated to a safe ambient light level within the yard. Light from interior light sources will be visible through glazed areas of building enclosures. No exterior architectural lighting is included in the design. The rebuilt CSHP will comply with City of Madison Lighting Ordinances.

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### Other Information

#### Project Approvals General Requirement

The nature of this Project necessitates that it receive many approvals from many authorities and governing bodies in addition to the City of Madison Department of Planning and Development, to insure the Project is constructed and operates in a manner that meets all of the requirements of these various agencies and approvals.

The details of this GDP/SIP land use application and subsequent approval is considered in context with these other Project approvals. Any condition of another required approval will be considered a condition of the GDP/SIP approval.

#### Other Approvals

##### Air Permit

The Project will be designed, built, and operated in accordance with all of the provisions, conditions, and restrictions mandated by the approved Air Permit.

##### Environmental Impact Statement

The Project will be designed, built, and operated in accordance with all of the provisions, conditions, and restrictions mandated by the approved Environmental Impact Statement, and pursuant to all national, state, and UW System WEPA/NEPA guidelines.

##### Risk Management Plan

The Project will be designed, built, and operated in accordance with all of the provisions, conditions, and restrictions mandated by the recorded Risk Management Plan. This document was prepared by P3M with the input of the Owner, Plant Operators, University's Insurance Carrier, and most importantly, the Madison Fire Department, who is the Authority Having Jurisdiction for issues related to Fire Prevention and protection of the public from hazards related to the operation of this facility.

##### Developer's Agreement

The Project will be designed, built, and operated in accordance with all of the provisions, conditions, and restrictions mandated by the approved Developer's Agreement between the City of Madison and the State of Wisconsin.

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#### Other Required Permits and Reviews

The Project will be designed, permitted, built, and operated in accordance with all of the provisions, conditions, and restrictions of these City Departments and other governing authorities:

- City of Madison Water Utility Review for well head protection zone
- City of Madison Board of Public works for pedestrian path and bike path committee reviews
- City of Madison Engineering Departments under Planning and Development
- State of Wisconsin DNR Bureau of Energy

#### Site Layout

The general site plan arrangement of the new for the CSHP is depicted on the plan following this section. The plan includes labels to identify all of the buildings, equipment enclosures, and structures which are planned to occupy the site. Exact sizes of some of the elements are subject to change based upon final equipment selections and completion of detailed design and engineering work

#### Building Sizes

The anticipated sizes of buildings and equipment enclosures are listed in the matrix following the site plan arrangement drawing. Again, exact sizes of some of the buildings and elements are subject to change based upon final equipment selections and completion of detailed design and engineering work. This facility is located within the Capitol View Preservation zone, and is in compliance with this zoning regulation.

#### Architectural Description

The Charter Street Heating Plant (CSHP) Project includes construction of several new buildings and structures. The goals of the architectural design effort are to make the facility a good neighbor to its surrounding urban context, including UW Madison Campus and near by private property. Special attention was paid to including structures in the design program to secure the site and contain noise, dust, and light pollution; with a visual appeal that included pedestrian scale considerations.

The architectural concept for the facility is to celebrate the removal of all coal from the site per the Governor's mandate, and show off the bio-fuel material delivery, storage, and handling as it is moved across Mills Street to the new Boiler where it is burned to produce clean energy.

Building enclosure materials are selected and utilized in a visually composed manner for their aesthetic qualities so as to tell the story of this facility, and to fit within the overall budget. Some aesthetic upgrades to the existing buildings to remain is anticipated.

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#### Energy Efficiency

The Charter Street Heating Plant (CSHP) Project will comply with the Governor's initiative on energy efficient buildings (Executive Order 145) which stipulates that new buildings will be designed to be 30% better than the code in effect at the time of the Order.

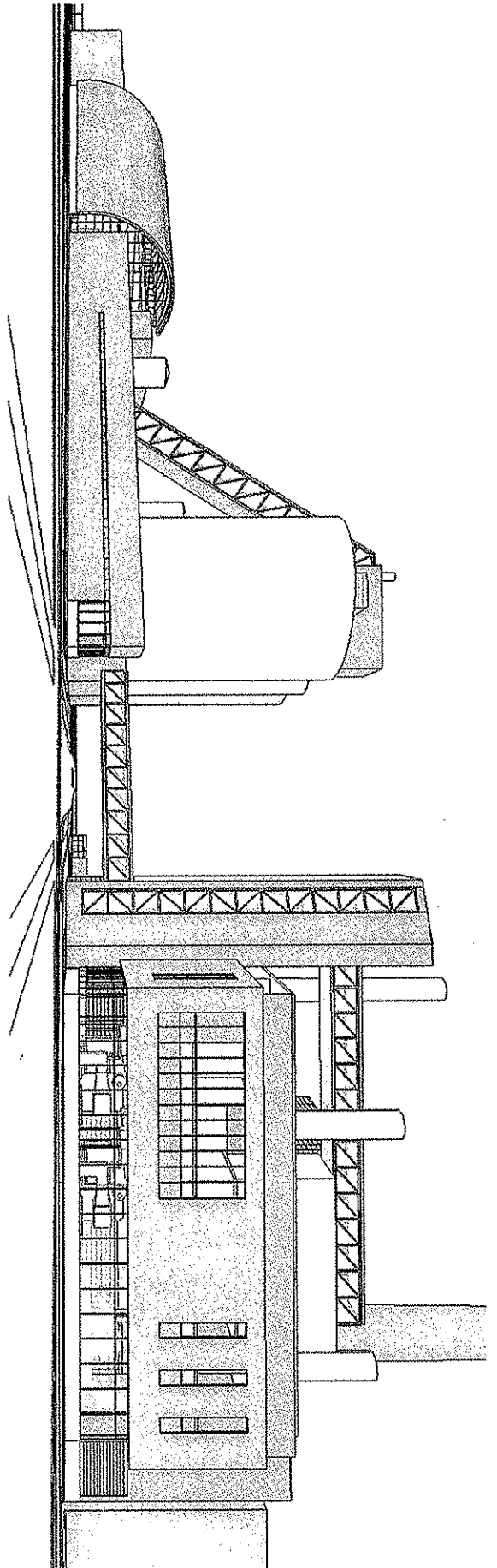
The design effort to achieve this goal will be pursued through the detail design of Electrical and HVAC.

#### Project Construction Schedule

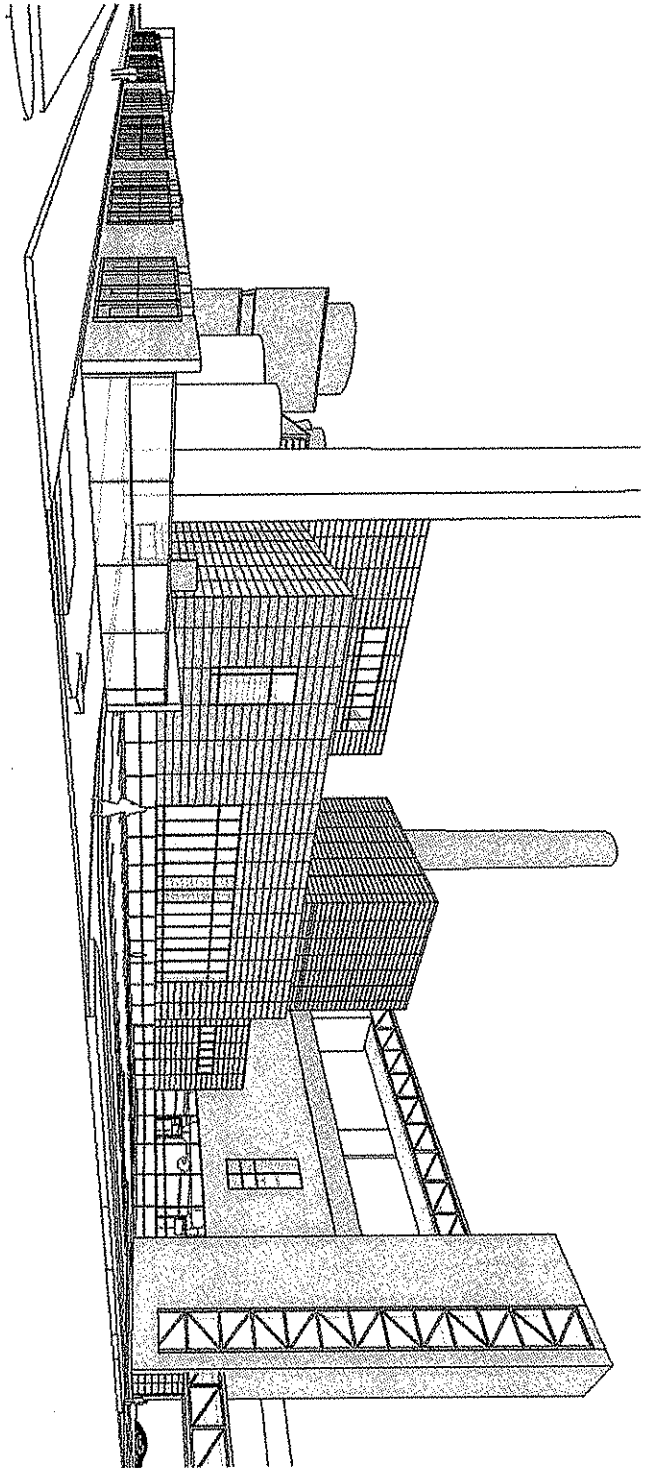
The Charter Street Heating Plant (CSHP) Project is planned for construction to start in the late summer of 2010 and be complete by Fall or 2013. The detail of the construction schedule shall be developed by the EPC Contractor. There is a general concept for the phasing of the construction to allow the Plant to remain operational during the construction phase:

- Build the E half of the Dayton Street Building to bring Package Boilers #6 and #7 on line.
- Burn off all inventory of coal fuel on site and retire coal fired boilers.
- Remove on-site rail spurs and demolish existing buildings on site planned for removal.
- Build remainder of the Dayton Street Building, new Boiler #8, and other structures on the CSHP site.

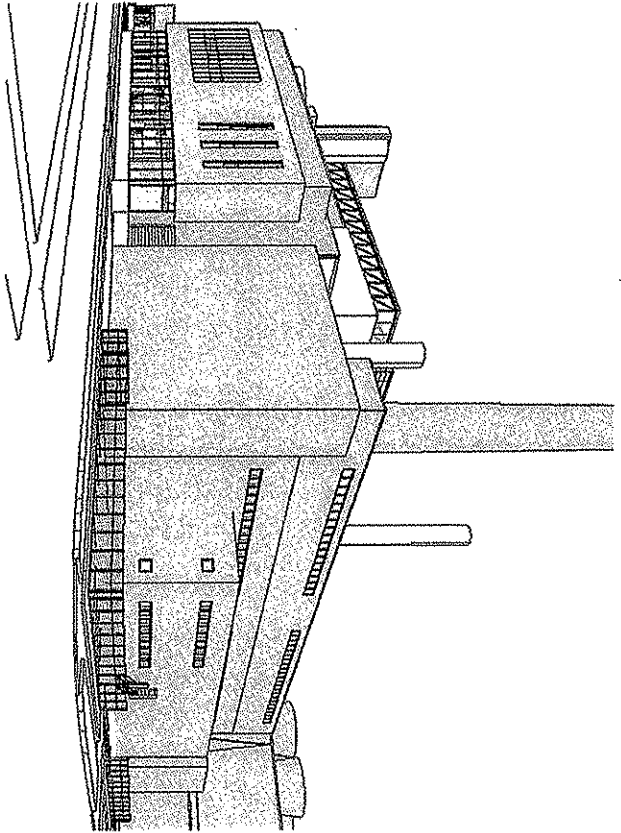
Construction of structures on the Fuel Handling Site and construction on the WDOT rail corridor may be able to precede the sequence described for the CSHP site. Construction may occur in several areas concurrently. It is anticipated that Mills Street will require temporary street closure for some duration during the project construction phase. The Southwest Bike Path will remain open, but may be detoured during periods of time during the construction phase.



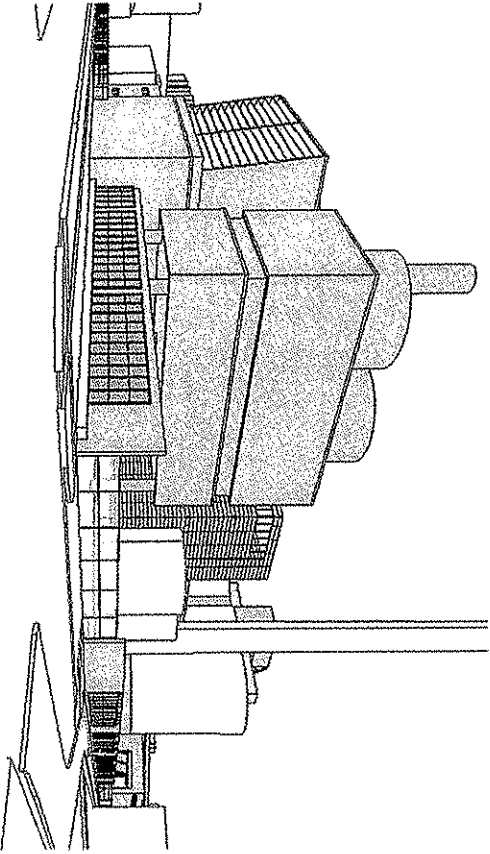
1 DAYTON STREET ELEVATION



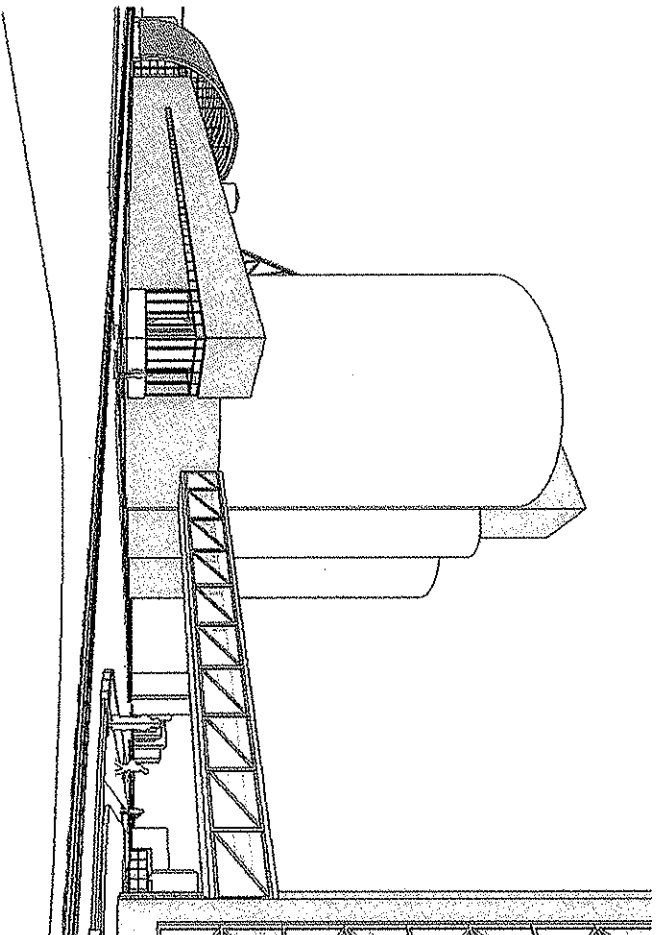
2 BOILER & SOH BUILDINGS EAST ELEVATION



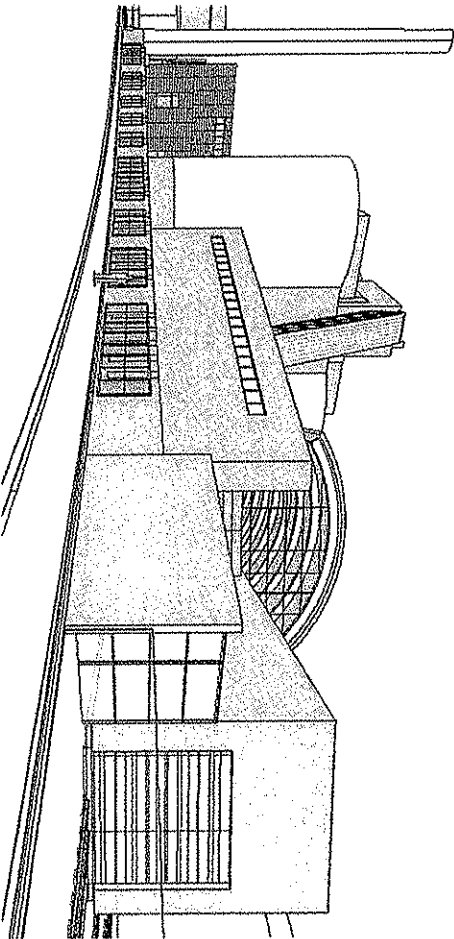
4 CHARTER & DAYTON STREET INTERSECTION



3 BIKE PATH @ CHARTER STREET LOOKING EAST



1 RAIL SHED, HOPPER & FUEL STORAGE SILOS



2 RAIL SHED, HOPPER & FUEL STORAGE EAST ELEVATION



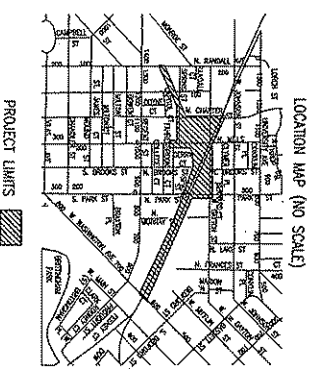
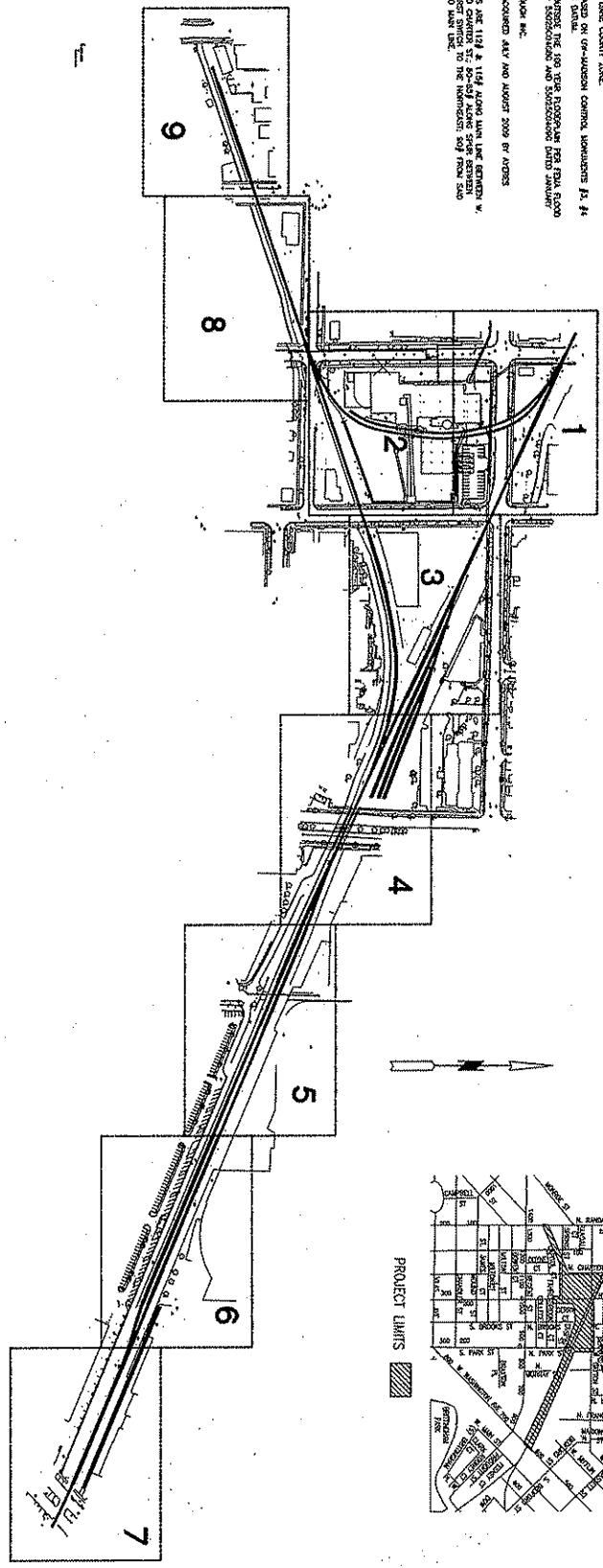
Charter Street Heating Plant Rebuild  
Building Classification Data

DESCRIPTION	USE & OCCUPANCY CLASSIFICATION (see note 1)	IBC REF.	TYPE OF CONSTRUCTION	IBC REF.	Sprinklers? (see note 2)	ALLOW. BLDG. AREA, SQ. FT.	IBC REF.	WIDTH	LENGTH	APPROXIMATE		ALLOWABLE HEIGHT	IBC REF.	ALLOWABLE STORIES	IBC REF.	ACTUAL STORIES	COMMENTS	
										ROOM OR STORAGE	HEIGHT							
Existing Plant Buildings	Industrial Group F-1	306.2	existing	IBC 602.2, Table 601	Y	existing	existing	existing	existing	existing	existing	existing	602.2	503.1.1				
Dayton St. Building	Industrial Group F-1	306.2	I-B	602.2, Table 601	Y	Unlimited	503.1.1	66'-0"	66'-0"	10'-0"	115'-0"	Unlimited	503.1.1					
No. 6 Boiler Enclosure	Industrial Group F-1	306.2	I-B	602.2, Table 601	Y	Unlimited	503.1.1	112'-0"	148'-0"	10'-0"	115'-0"	Unlimited	503.1.1					
No. 6 Boiler A.C.C.S.	Industrial Group F-1	306.2	I-B	602.2, Table 601	Y	Unlimited	503.1.1	46'-0"	148'-0"	10'-0"	115'-0"	Unlimited	503.1.1					
High Bay	Industrial Group F-1	306.2	I-B	602.2, Table 601	Y	Unlimited	503.1.1	66'-0"	148'-0"	10'-0"	115'-0"	Unlimited	503.1.1					
Low Bay	Industrial Group F-1	306.2	I-B	602.2, Table 601	Y	Unlimited	503.1.1	66'-0"	148'-0"	10'-0"	115'-0"	Unlimited	503.1.1					
Biomass Material Handling	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	105'-0"	124'-0"	12'-0"	124'-0"	Unlimited	503.1.1					
West Train Shed Enclosure	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	24'-0"	238'-0"	12'-0"	24'-0"	Unlimited	503.1.1					
East Train Shed Enclosure	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	24'-0"	74'-0"	12'-0"	24'-0"	Unlimited	503.1.1					
Control & Elec. Bldg.	Industrial Group F-1	306.2	I-B	602.2, Table 601	Y	Unlimited	503.1.1	30'-0"	66'-0"	12'-0"	32'-0"	Unlimited	503.1.1					
Boiler MCC Room	Industrial Group F-1	306.2	I-B	602.2, Table 601	Y	Unlimited	503.1.1	30'-0"	36'-0"	12'-0"	32'-0"	Unlimited	503.1.1					
DCS Rack Room	Industrial Group F-1	306.2	I-B	602.2, Table 601	Y	Unlimited	503.1.1	30'-0"	66'-0"	12'-0"	32'-0"	Unlimited	503.1.1					
Fuel Storage Silos	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	30'-0"	30'-0"	12'-0"	12'-0"	Unlimited	503.1.1					
Wood Chip Storage Silo #1	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	72'-0"	Diameter	82'-0"	116'-0"	Unlimited	503.1.1					
Wood Chip Storage Silo #2	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	72'-0"	Diameter	82'-0"	116'-0"	Unlimited	503.1.1					
ADP/PDF Storage Silo	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	30'-0"	Diameter	79'-0"	111'-0"	Unlimited	503.1.1					
Fuel Storage Silo	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	30'-0"	24'-0"	30'-0"	62'-0"	Unlimited	503.1.1					
Inclined Conveyor Gallery	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	20'-0"	200'-0"	14'-0"	166'-0"	Unlimited	503.1.1					
Mills Street Conveyor Gallery	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	18'-0"	97'-0"	10'-0"	26'-0"	Unlimited	503.1.1					
Boiler Feed Conveyor Gallery	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	24'-0"	150'-0"	10'-0"	114'-0"	Unlimited	503.1.1					
East Transfer Tower	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	20'-0"	31'-0"	50'-0"	116'-0"	Unlimited	503.1.1					
West Transfer Tower	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	40'-0"	60'-0"	50'-0"	166'-0"	Unlimited	503.1.1					
Boiler Stack	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	34'-0"	41'-0"	50'-0"	140'-0"	Unlimited	503.1.1					
Package Boiler Stack	High Hazard Group H-2	307.1, 307.4	I-B	602.2, Table 601	Y	Unlimited	503.1.1	17'-8 1/2"	169 Dia	50'-0"	275'-0"	Unlimited	503.1.1					

- Notes:
- OCCUPANCY CLASSIFICATION WITHIN THE IBC MOST CLOSELY FITTING THE INTENDED USE OF THIS ENCLOSURE OR STRUCTURE.
  - "N" INDICATES NO SPRINKLER SYSTEM PROVIDED
  - "Y" INDICATES THAT AN APPROVED AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT THE BUILDING IN ACCORDANCE WITH SECTION 903.3.1.1 (2006 IBC)
  - "180" INDICATES ITEM TO BE DETERMINED OR CONFIRMED

GENERAL NOTES:  
 DRAWINGS AS SHOWN ARE APPROXIMATE AND ARE BASED ON RECORDS  
 PROVIDED BY THE PROJECT MANAGER, ADVISORY BOARD, ASSISTANT ENGINEER AND  
 RECORD DRAWINGS PROVIDED BY THE CLIENT CONTRACTOR.  
 CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS, SURVEY DATA, AND  
 RECORD DRAWINGS AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE  
 CONTRACTOR'S FIELD SURVEY DATA AND ANY CORRECTIONS THEREON.  
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### GENERAL DEVELOPMENT PLAN SHEET LAYOUT



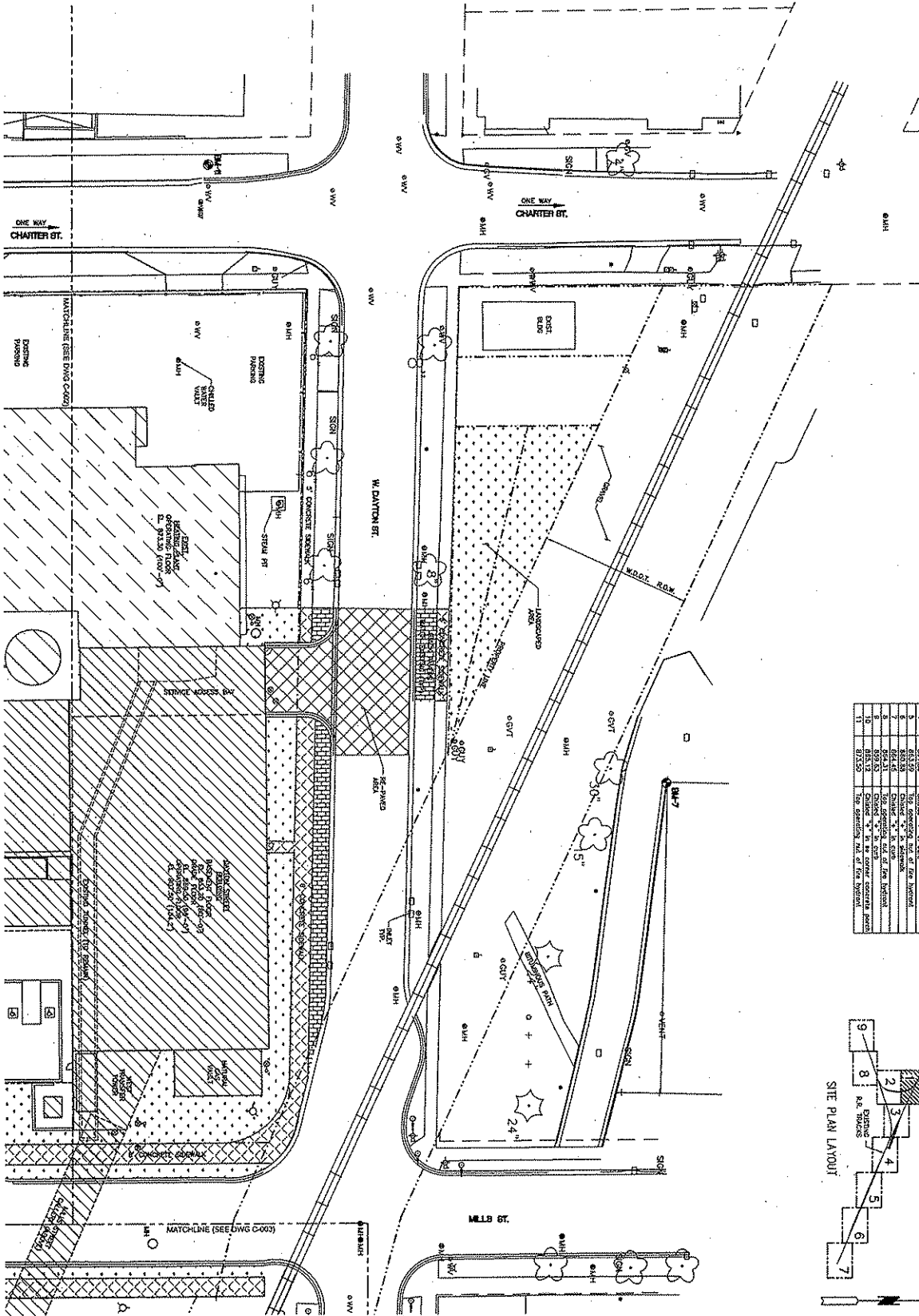
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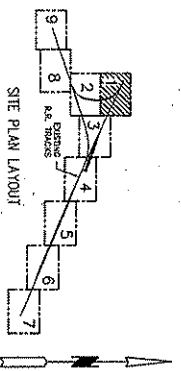
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C-003	DEVELOPMENT PLAN
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C-006	DEVELOPMENT PLAN
C-007	DEVELOPMENT PLAN
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C-040	DEVELOPMENT PLAN
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C-042	DEVELOPMENT PLAN
C-043	DEVELOPMENT PLAN

	State of Wisconsin Department of Administration Division of State Facilities	
	Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON	
Project Location: <b>MADISON, WI</b>		<b>PEC</b> POWER ENGINEERS CONSULTANTS AND ARCHITECTS 220 SOUTH MOUNTAIN BLVD. SUITE 200 MADISON, WI 53704
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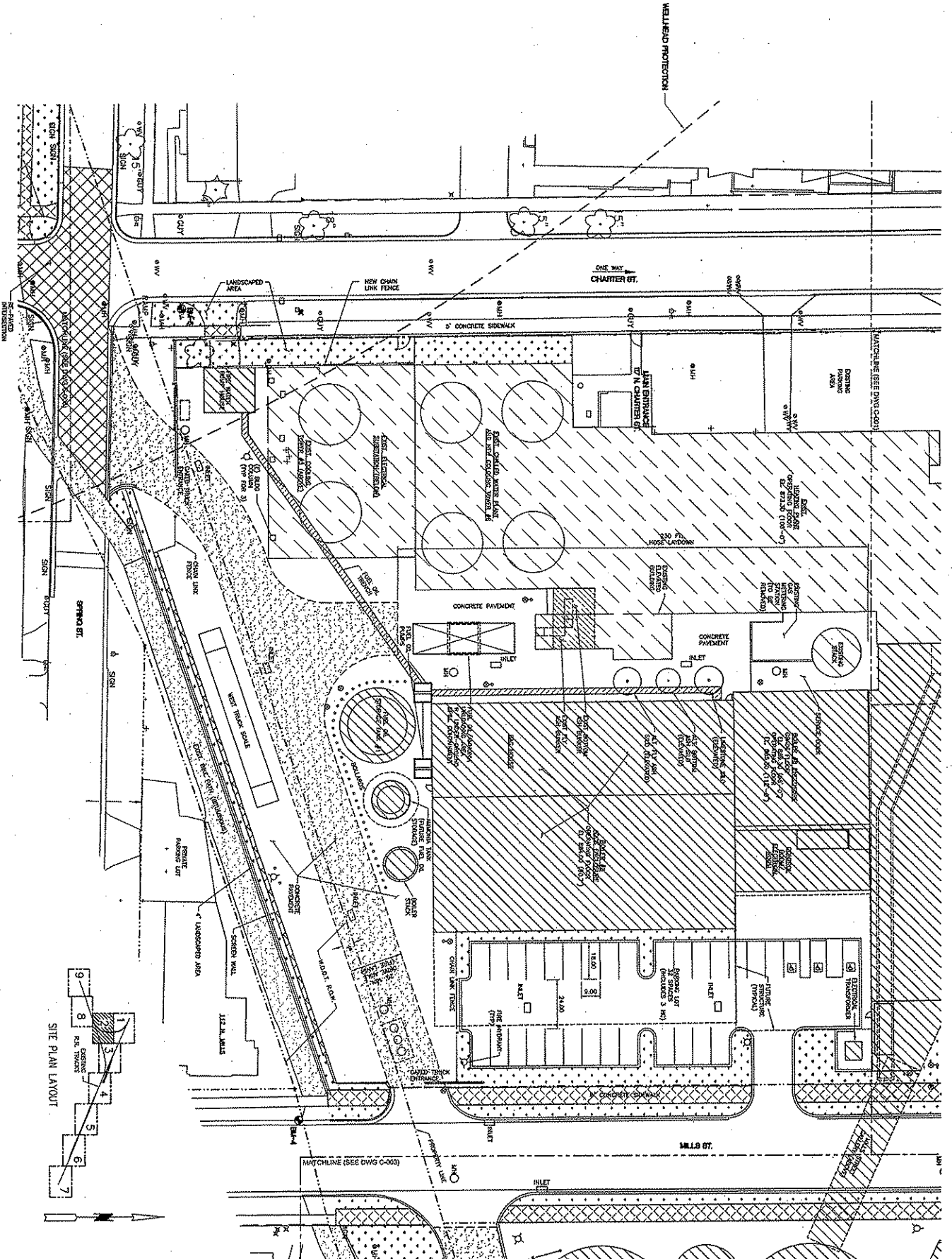


**REVISIONS**

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8	REVISED	REVISED
9	REVISED	REVISED
10	REVISED	REVISED
11	REVISED	REVISED



<p>Project Title: <b>CHARTER STREET REBUILD</b></p> <p>Project Location: <b>MADISON, WI.</b></p> <p>Draw Title: <b>GDP SITE PLAN</b></p>	<p>State of Wisconsin Department of Administration Division of State Facilities</p> <p>Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON</p>	<p><b>PEC</b></p> <p>CONTRACT ENGINEERS CONSULTANTS 1300 University Avenue Madison, WI 53706 608.263.1100 www.pec.com</p>	<p><b>Pöyry</b></p> <p>1000 University Avenue Madison, WI 53706 608.263.1100 www.poyry.com</p>	<p><b>Robert Lawson</b></p>																		
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Contract No.	03-10-10
Project No.	03-10-10
Sheet No.	03-10-10
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Date	03-10-10
Drawn By	03-10-10
Checked By	03-10-10
Project Title	CHARTER STREET REBUILD
Project Location	MADISON, WI
Sheet Title	GDP SITE PLAN
Scale	C-002

Project Title:  
**CHARTER STREET REBUILD**  
 Project Location:  
**MADISON, WI**  
 Sheet Title:  
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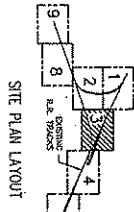
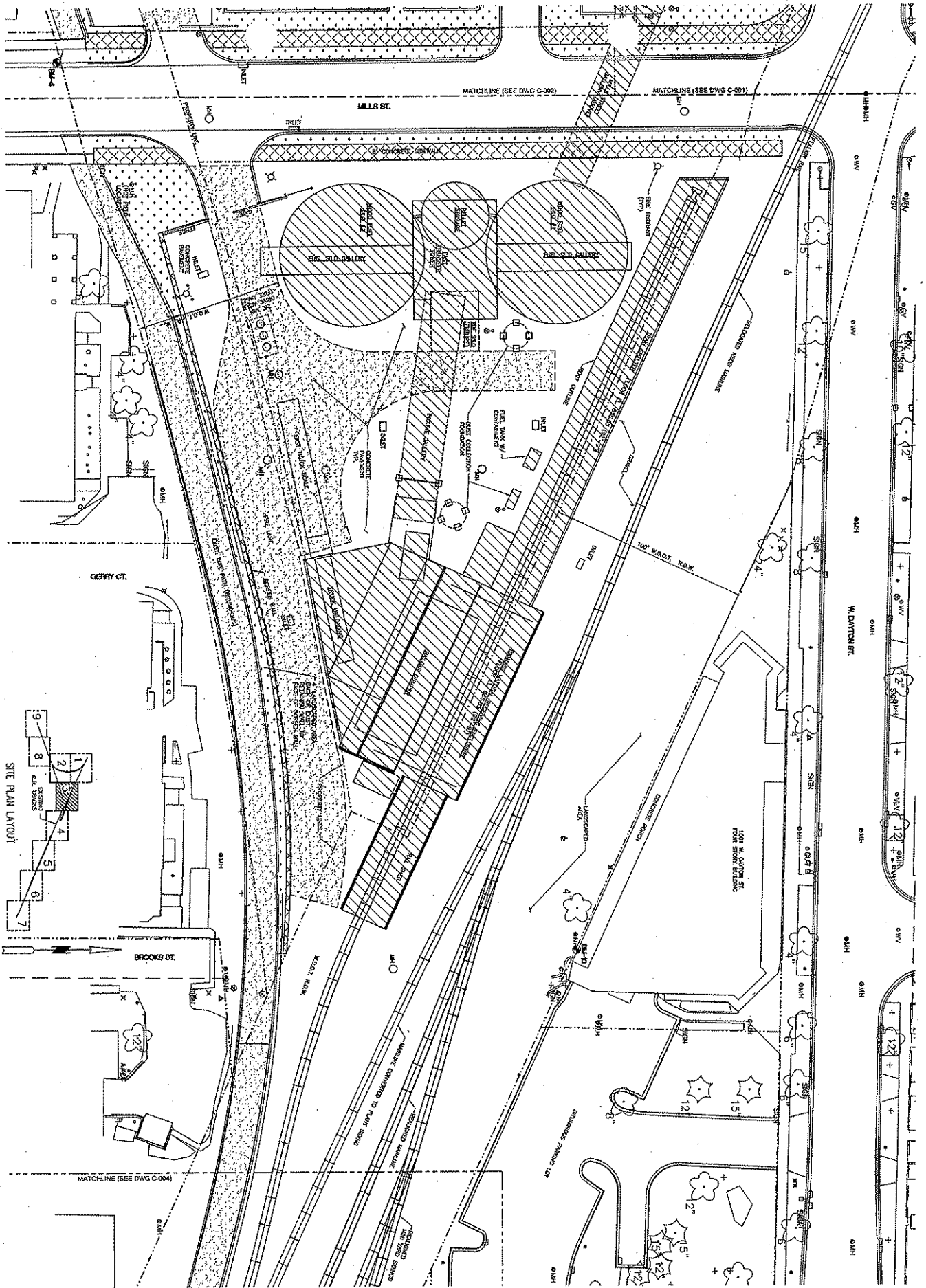
State of Wisconsin  
 Department of Administration  
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 UNIVERSITY OF WISCONSIN, MADISON

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 WWW.POYRY.COM

**Midway**  
 1500 STATE STREET  
 SUITE 1100  
 MADISON, WI 53706  
 WWW.MIDWAY.COM

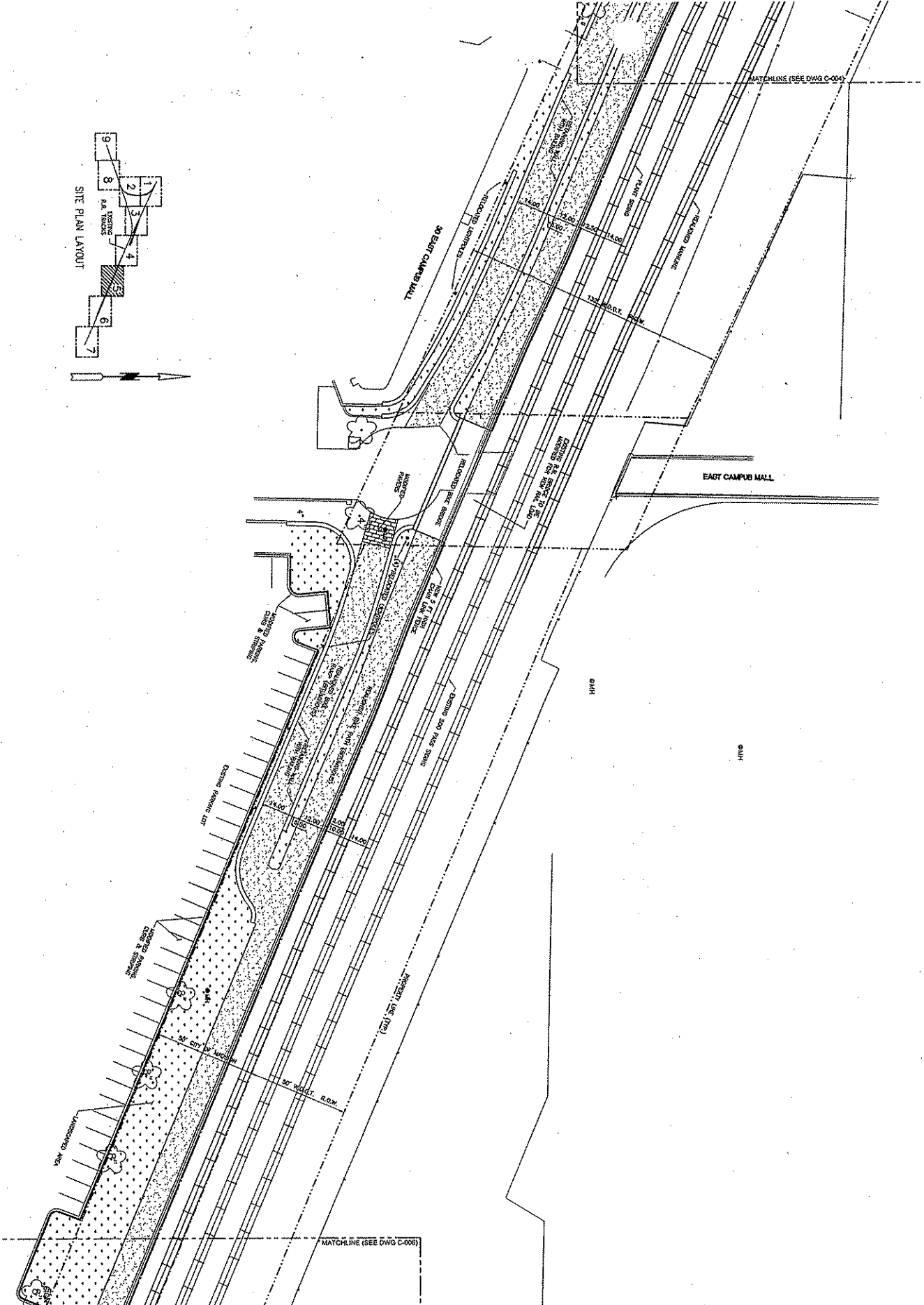
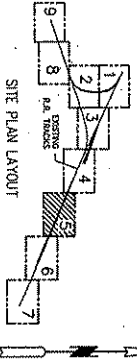
**Peter Lawson**



<b>PEC</b> POWER ENGINEERS 4700 SOUTH PARK STREET BROOKFIELD, WISCONSIN 53005 WWW.POWERENGINEERS.COM		<b>PÖYRY</b> 1000 UNIVERSITY AVENUE MADISON, WISCONSIN 53706 WWW.POYRY.COM		<b>Midway</b> <b>Peter Lawson</b>	
Project Title: <b>CHARTER STREET REBUILD</b>		State of Wisconsin Department of Administration Division of State Facilities		Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON	
Project Location: <b>MADISON, WI.</b>		Sheet Title: <b>GDP SITE PLAN</b>			
Drawing Scale: AS SHOWN	Date: 03-10-10	Revision: 03-10-10	Author: PR	Checker: PR	Sheet Number: C-003

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Sheet Number	C-005
Date	03-10-10
Scale	AS SHOWN
Drawn By	PR
Checked By	
Project Name	GOPAL
Client	UNIVERSITY OF WISCONSIN

**Project Title:**  
CHARTER STREET REBUILD

**Project Location:**  
MADISON, WI.

**Sheet Title:**  
GOP SITE PLAN

State of Wisconsin  
Department of Administration  
Division of State Facilities

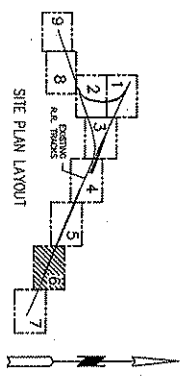
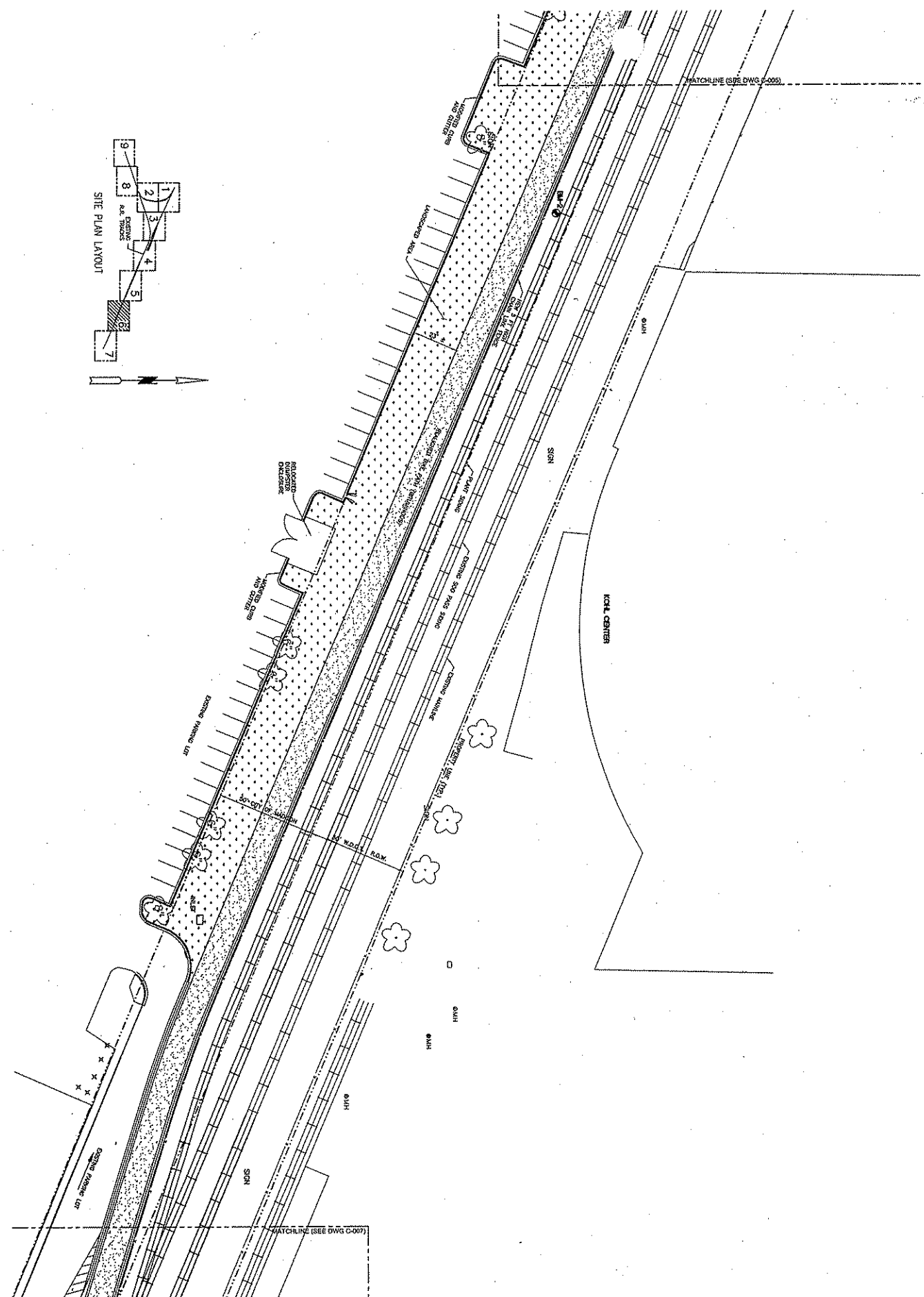
**Peter Lawson**


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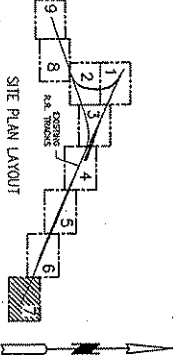
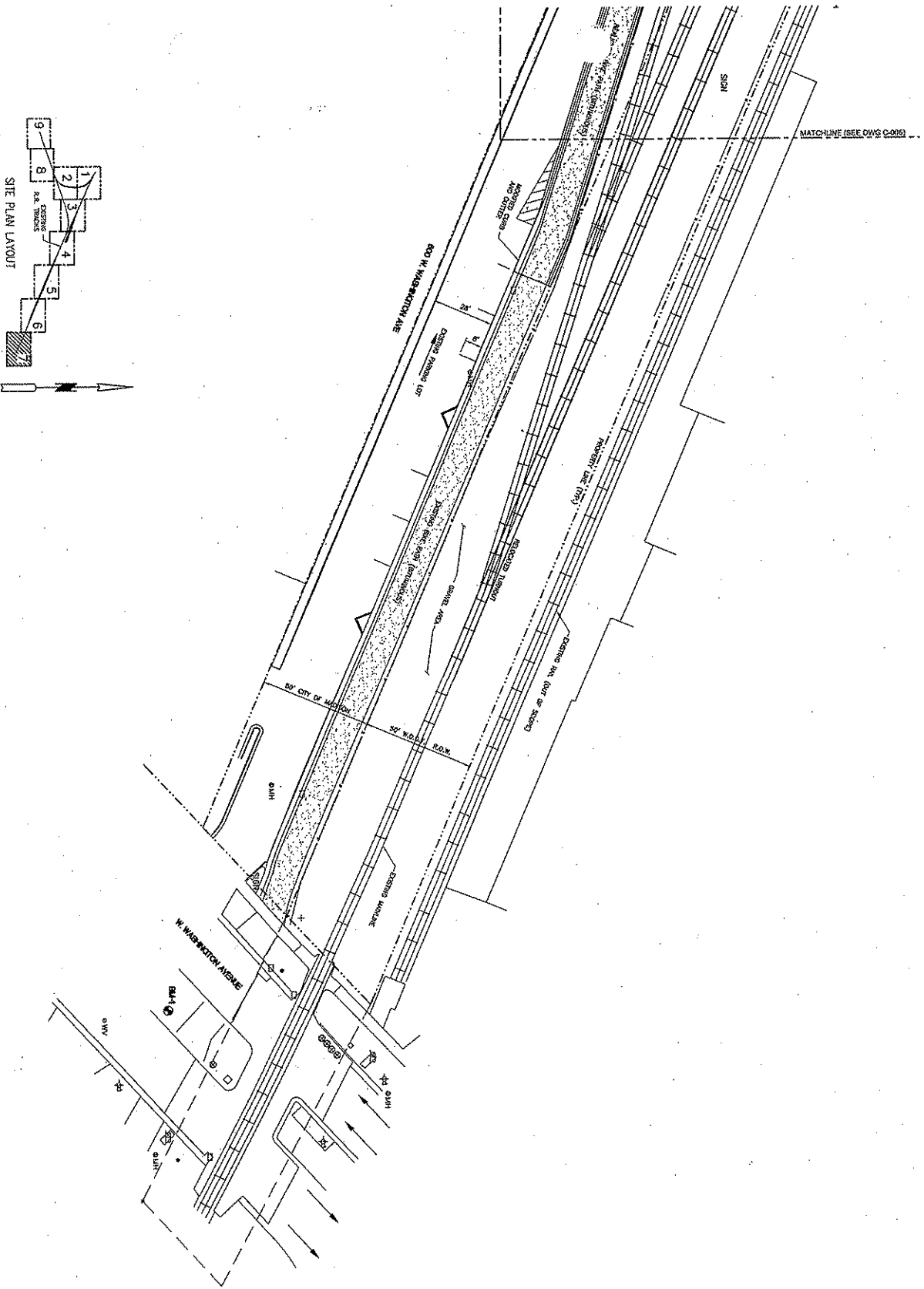
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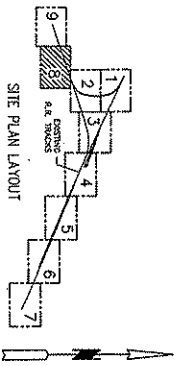
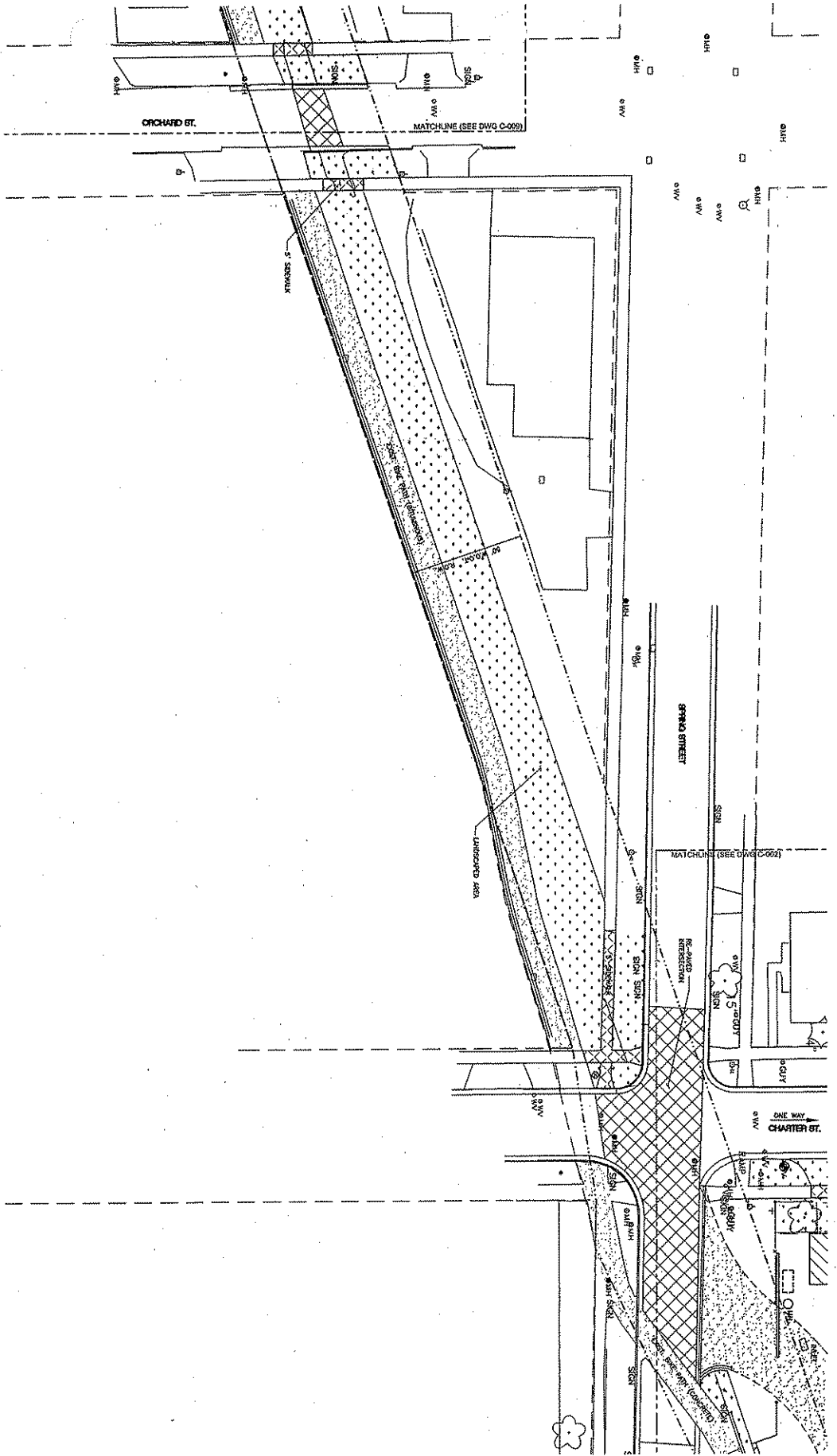
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Revision</th> <th>Description</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Revision	Description	Date										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Contract Number</td> <td>09A2L</td> </tr> <tr> <td style="width: 20%;">Contract Name</td> <td>PR</td> </tr> <tr> <td style="width: 20%;">Date Issued</td> <td>03-10-10</td> </tr> <tr> <td style="width: 20%;">Sheet Number</td> <td>C-006</td> </tr> </table>	Contract Number	09A2L	Contract Name	PR	Date Issued	03-10-10	Sheet Number	C-006	<p style="font-size: small;">MATCHLINE (SEE DWG C-005)</p> <p style="font-size: small;">MATCHLINE (SEE DWG C-007)</p>
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Date Issued	03-10-10																					
Sheet Number	C-006																					





 POWER ENGINEERS COLLABORATIVE LLC 1302 SUNNY SPRING ROAD BROOKFIELD, WISCONSIN 53005 (608) 441-8800 WWW.POWERENGINEERS.COM	 Peter Lawson		State of Wisconsin Department of Administration Division of State Facilities	<b>CHARTER STREET REBUILD</b> Project Location: <b>MADISON, WI.</b>									
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Sheet Number	C-008
Scale	AS SHOWN
Date	03-10-10
Drawn By	PR
Checked By	09/21
Project Number	09/21
Project Name	CHARTER STREET REBUILD
Project Location	MADISON, WI
Sheet Title	GDP SITE PLAN

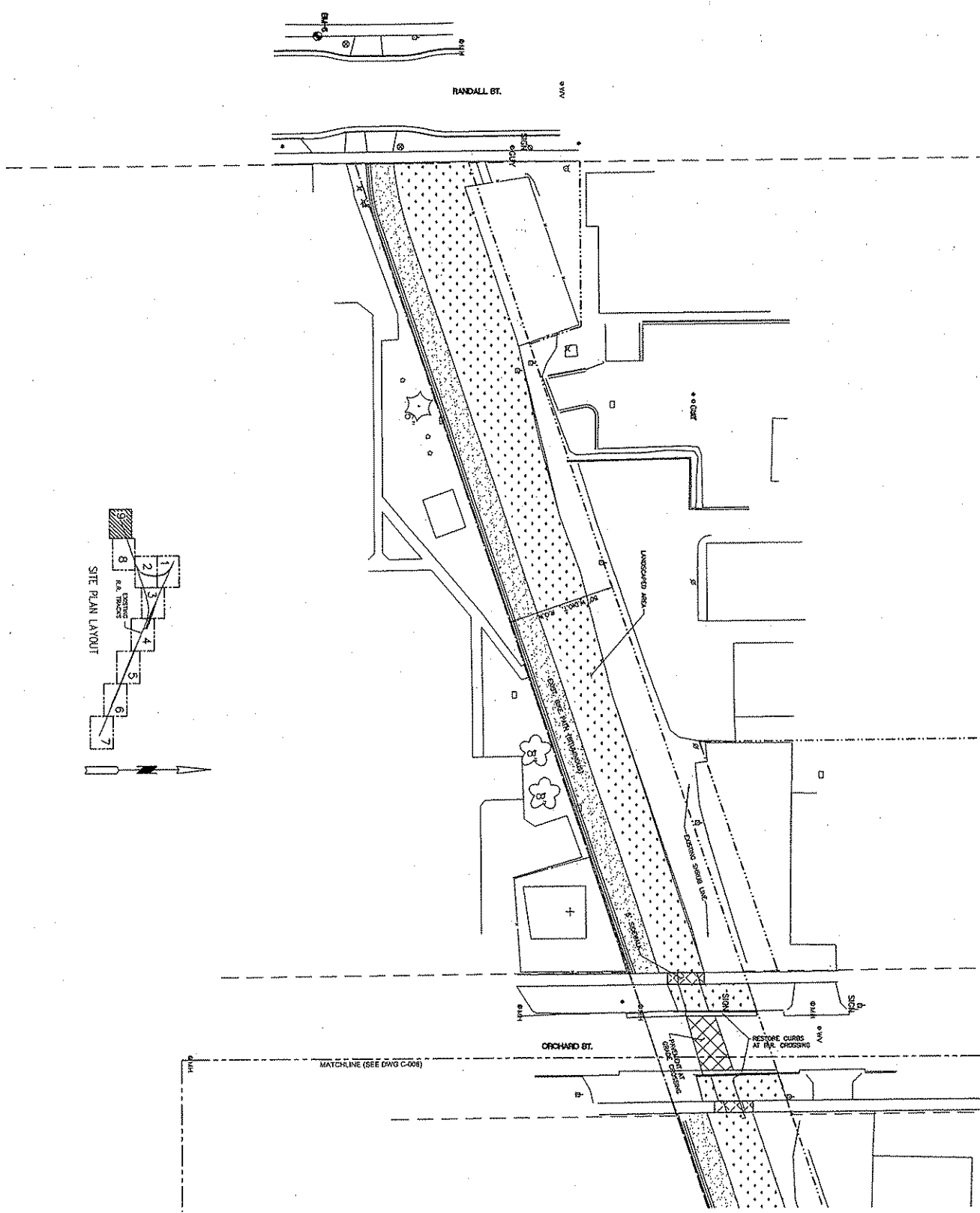
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 Project Location: **MADISON, WI**  
 Sheet Title: **GDP SITE PLAN**


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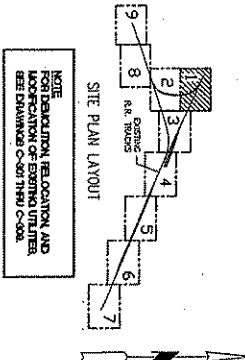
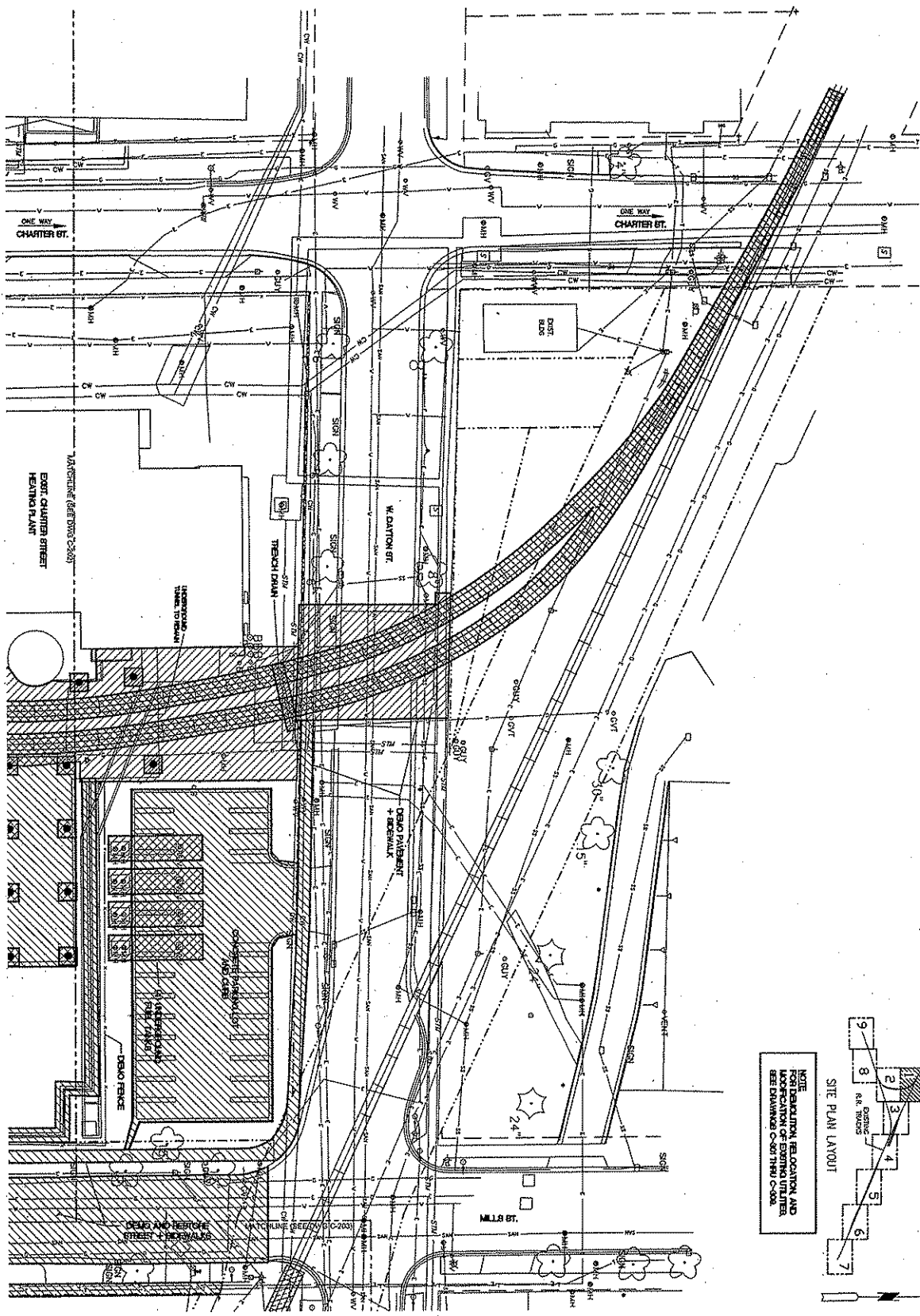
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**Midbough**  
**Peter Lawson**



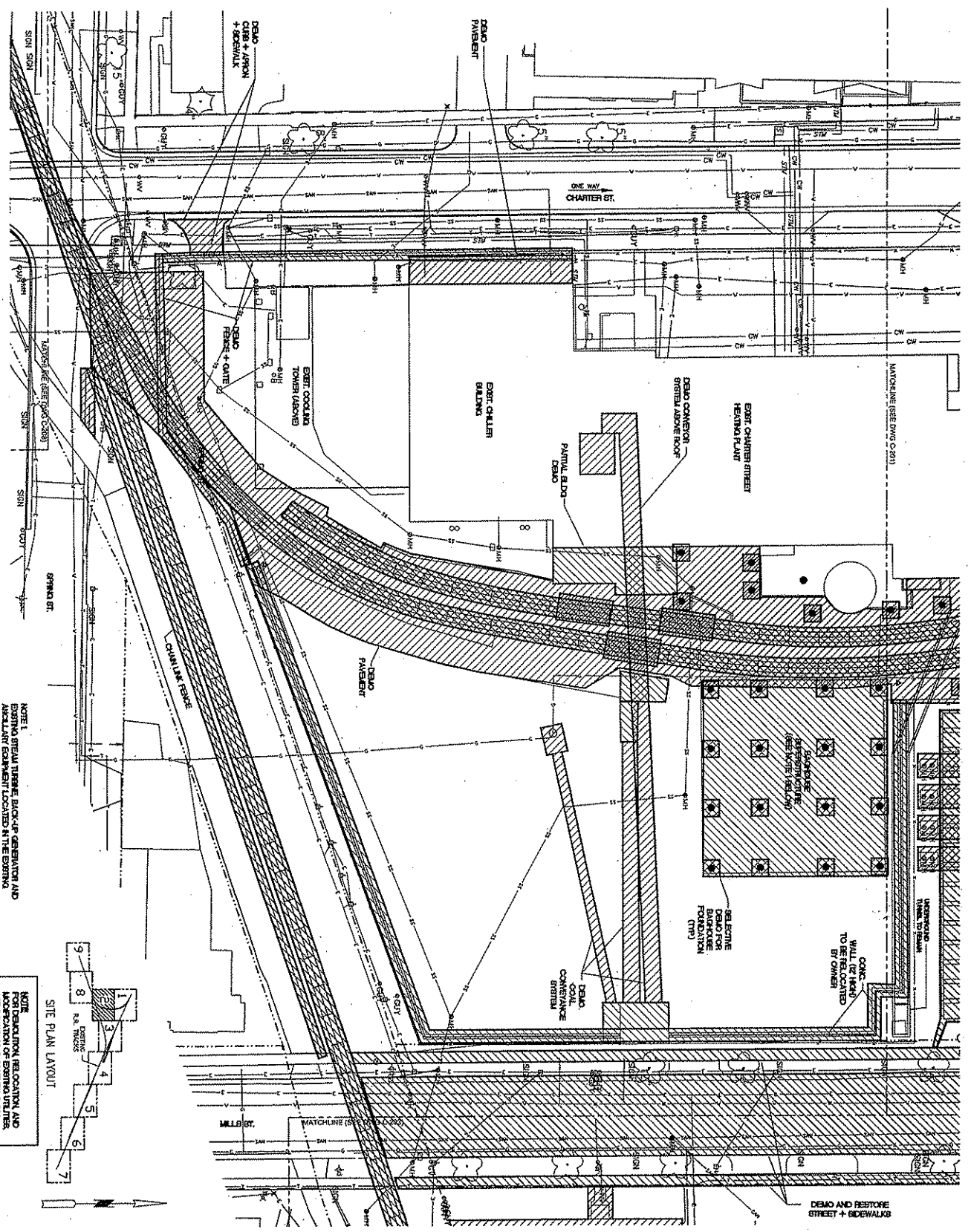
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Scale	AS SHOWN													
Date	03-10-10													
Sheet Number	C-009													

5



Sheet Number <b>C-201</b>	Date 03-10-10	Scale PER	Designer GSA/EL	Checker PER	Project Name <b>CHARTER STREET REBUILD</b>	Project Location <b>MADISON, WI</b>	Agency / Institution <b>UNIVERSITY OF WISCONSIN, MADISON</b>						

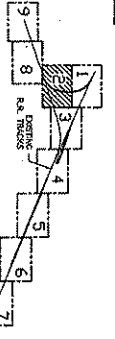
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NOTE 1  
 EXISTING SPECIAL TRAFFIC PICK-UP/DELIVERY AND  
 DELIVERY AREAS SHALL BE MAINTAINED AND  
 SIGNAGE TO BE RELOCATED AND RELOCATED.

NOTE  
 DEMO FROM RELOCATION AND  
 RELOCATION OF EXISTING UTILITIES  
 SEE DRAWINGS C-201 THRU C-204.

SITE PLAN LAYOUT



Project Title:	CHARTER STREET REBUILD
Project Location:	MADISON, WI.
Sheet Title:	GDP DEMOLITION PLAN
Scale:	AS SHOWN
Author:	GH/KAL
Check:	PR
Date:	03-10-10
Sheet Number:	C-202

State of Wisconsin  
 Department of Administration  
 Division of State Facilities

Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON

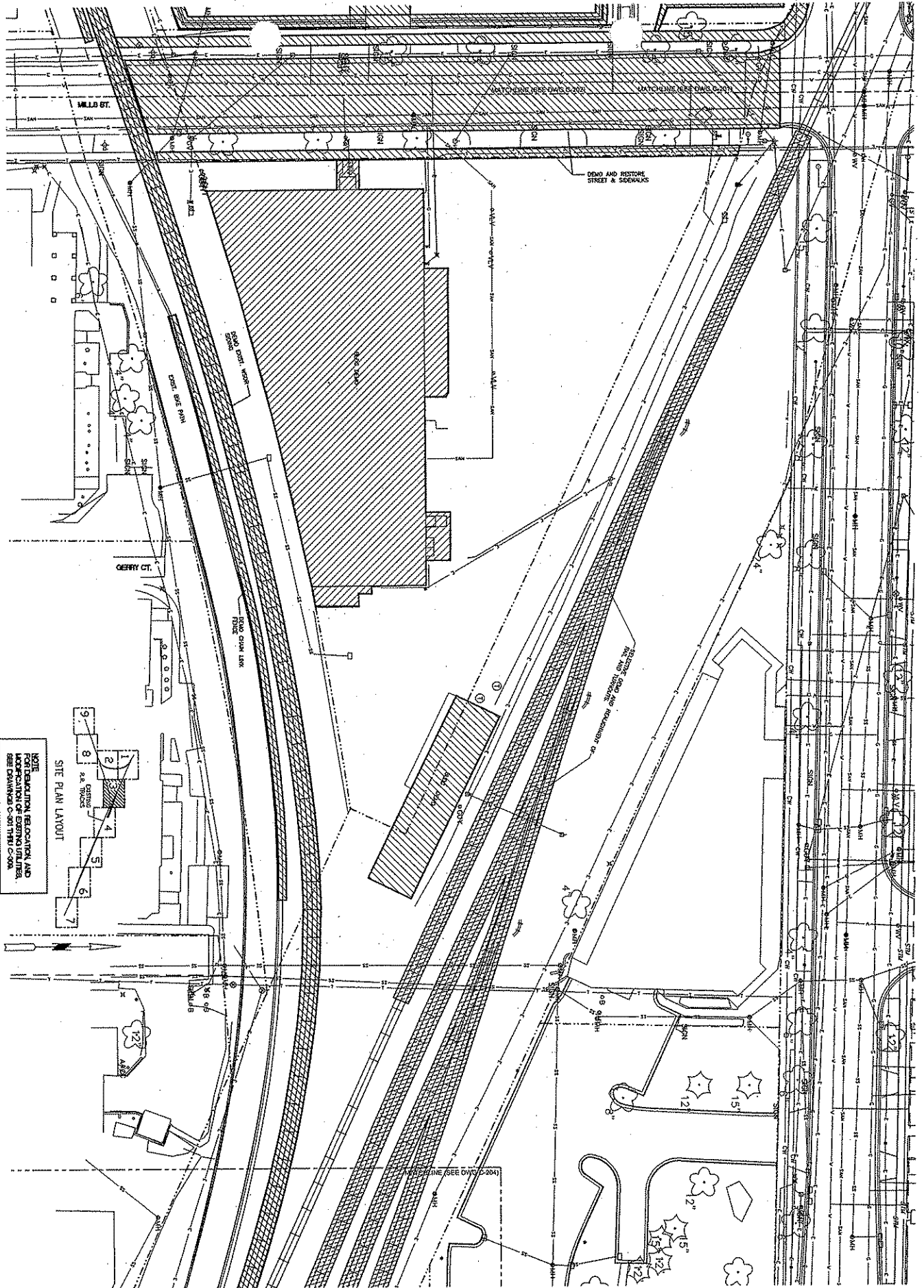
**PEC**  
 POWER ENGINEERS  
 CONSULTANTS LLC  
 100 SOUTH TULLY STREET  
 MADISON, WI 53703  
 (608) 261-1100  
 WWW.POWERENGINEERS.COM

**POYRY**  
 CONSULTANTS  
 100 SOUTH TULLY STREET  
 MADISON, WI 53703  
 (608) 261-1100  
 WWW.POYRY.COM

**midbaugh**  
 CONSULTANTS  
 100 SOUTH TULLY STREET  
 MADISON, WI 53703  
 (608) 261-1100  
 WWW.MIDBAUGH.COM

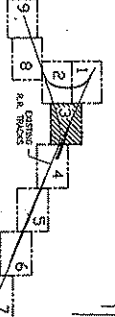
**PETER LAWSON**





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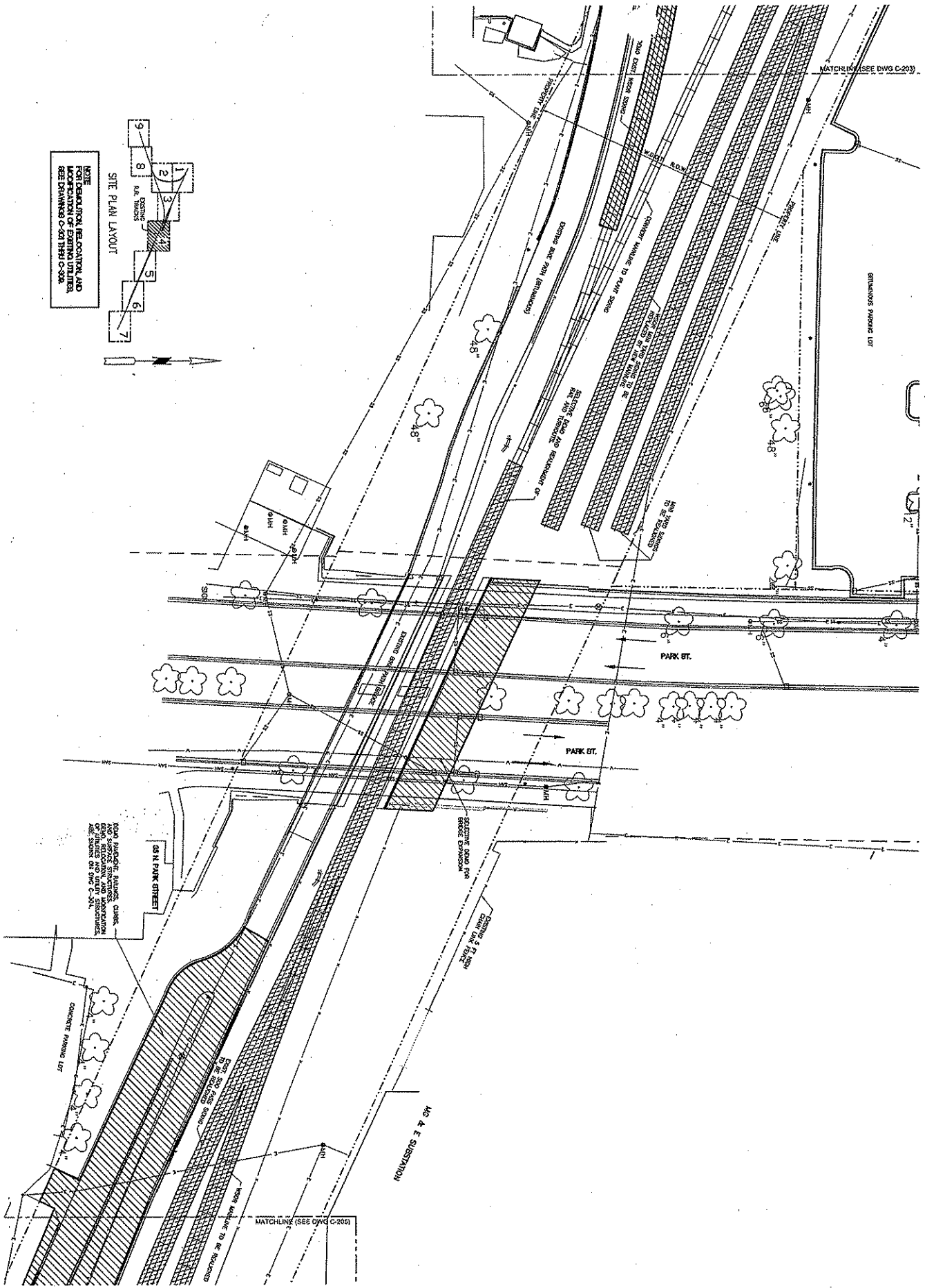
NOTE  
 LOCATION OF EXISTING UTILITIES  
 SEE DRAWING C-201 THROUGH C-208

SITE PLAN LAYOUT



<b>CHARTER STREET REBUILD</b> Project Location: <b>MADISON, WI</b>		 State of Wisconsin Department of Administration Division of State Facilities	 POWER ENGINEERS COLLABORATIVE LLC 130 SOUTH STATE STREET MADISON, WISCONSIN 53703	 PÖYRY 1000 WEST WASHINGTON MADISON, WISCONSIN 53703	 Rutler Lawton
Sheet Title: <b>DDP DEMOLITION PLAN</b>					
Date: 03-10-10	Scale: C-208	Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON			

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NO.	DATE	BY	DESCRIPTION

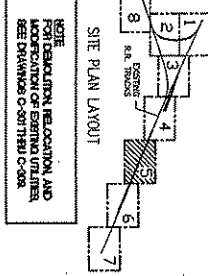
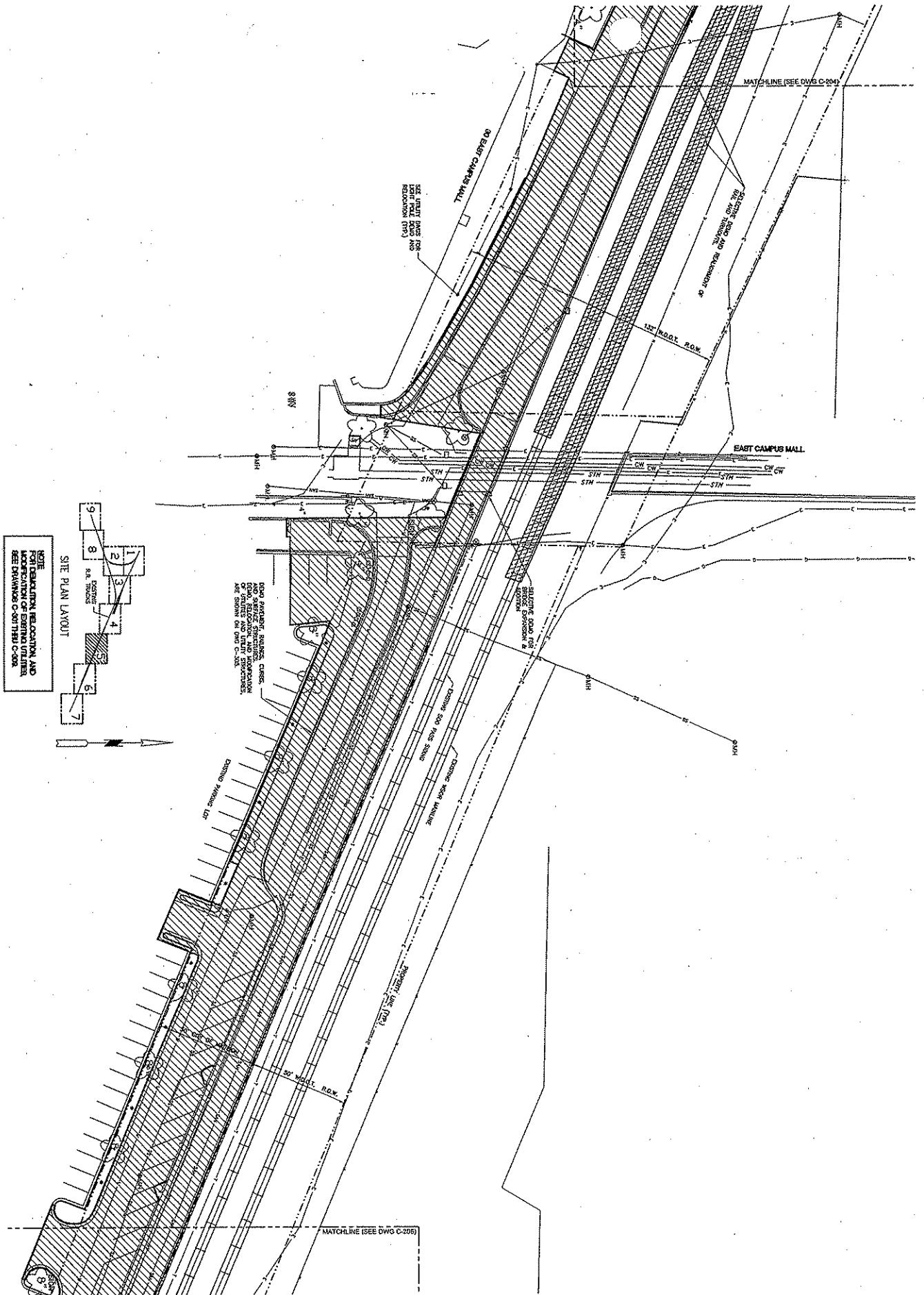
Project Title:  
**CHARTER STREET REBUILD**  
 Project Location:  
**MADISON, WI.**  
 Sheet Title:  
**GDP DEMOLITION PLAN**

State of Wisconsin  
 Department of Administration  
 Division of State Facilities  
 Agency / Institution:  
**UNIVERSITY OF WISCONSIN, MADISON**

**PEC**  
 POWER ENGINEERS  
 COLLABORATIVE LLC  
 139 S. MOUNTAIN VIEW  
 MADISON, WI 53704  
 WWW.POWERENGINEERS.COM

**Pöyry**  
 Middleton  
 Peter Lawson

5



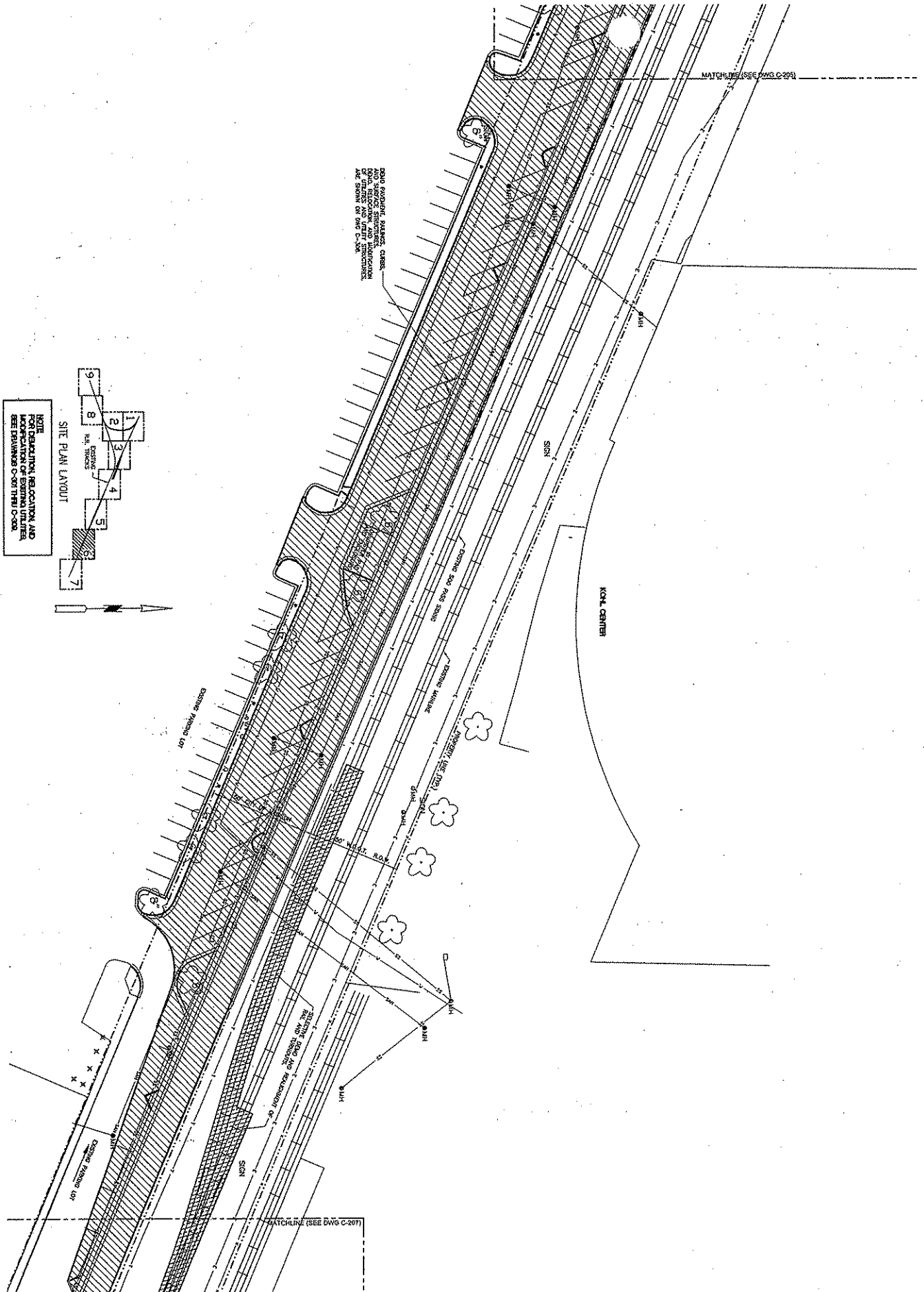
NOTE: FOR DEMOLITION, RECONSTRUCTION AND REPAIR WORK, SEE DRAWING C-205 THROUGH C-208.

ROADWAY, SIDEWALK, CURB, GUTTER, RETENTION AND DRAINAGE ARE SHOWN ON DWG C-205.

<b>PEC</b> POWER ENGINEERING CONSULTANTS 750 NORTH WEST STREET SUITE 100 MADISON, WISCONSIN 53706		<b>POYRY</b> 1000 UNIVERSITY AVENUE MADISON, WISCONSIN 53706		<b>Robert Lawson</b> 1000 UNIVERSITY AVENUE MADISON, WISCONSIN 53706	
<b>CHARTER STREET REBUILD</b> State of Wisconsin Department of Administration Division of State Facilities					
Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON					
Project Location: MADISON, WI.					
Sheet Title: GDP DEMOLITION PLAN					
Date: 03-10-10	Scale: AS SHOWN	Author: PR	Check: 09/01	Title: GDP DEMOLITION PLAN	Drawing No.: C-205

5





Sheet Number	Sheet Title
C-206	CHARTER STREET REBUILD

Project Title:  
**CHARTER STREET REBUILD**  
 Project Location:  
**MADISON, WI.**  
 Sheet Title:  
**GDP DEMOLITION PLAN**

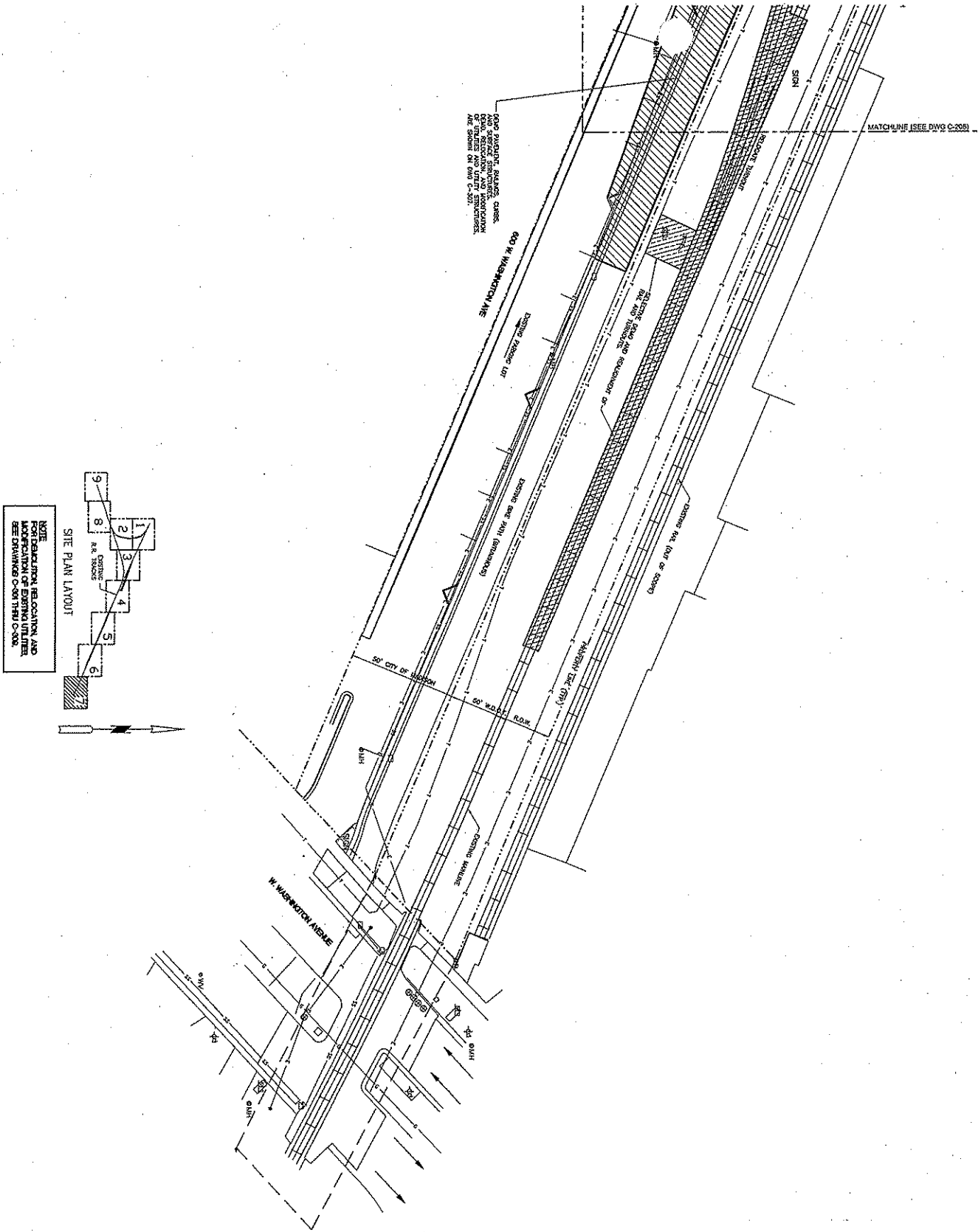
State of Wisconsin  
 Department of Administration  
 Division of State Facilities  
 Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON

**PEC**  
 POWER ENGINEERS  
 COLLABORATIVE LLC  
 1000 UNIVERSITY AVENUE  
 SUITE 300  
 MADISON, WISCONSIN 53706

**Pöyry**  
 CONSULTING ENGINEERS  
 1000 UNIVERSITY AVENUE  
 SUITE 300  
 MADISON, WISCONSIN 53706

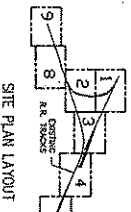
**Robert Lawson**  
**midough**

5



GOOD PRACTICE, REPAIRS, CRACKS, REPAIRS, REPAIRS, AND REPAIRS OF SPACES ON THE SITE.

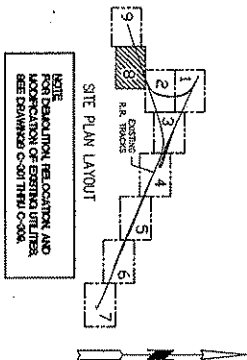
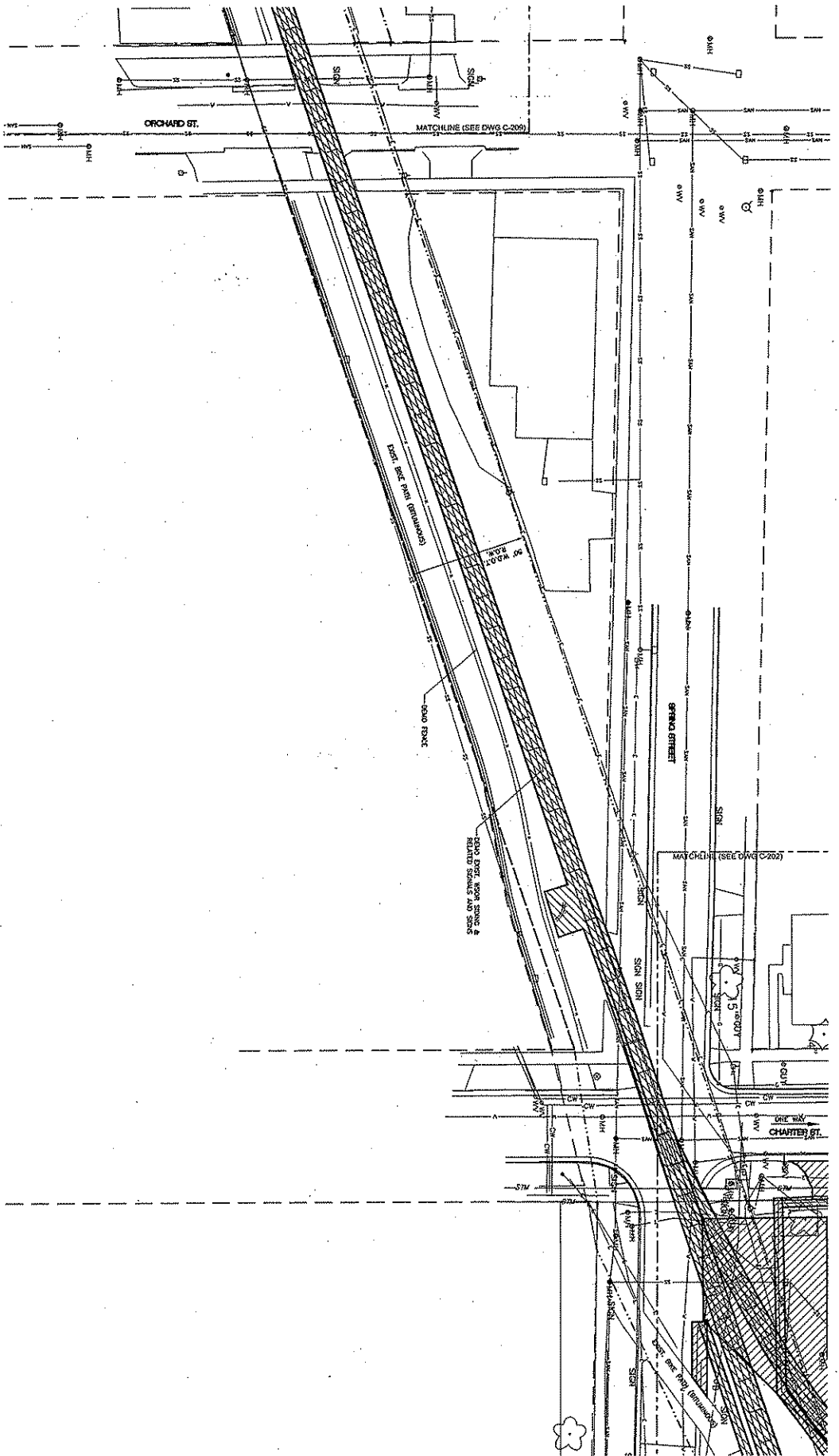
MATCHLINE (SEE DWG C-208)







NOTE: FOR DETAILED INFORMATION AND LOCATION OF EXISTING UTILITIES SEE DRAWINGS C-08THRU C-09.

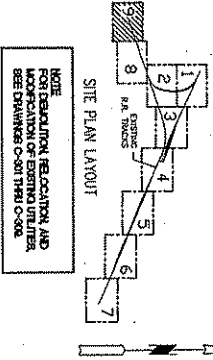
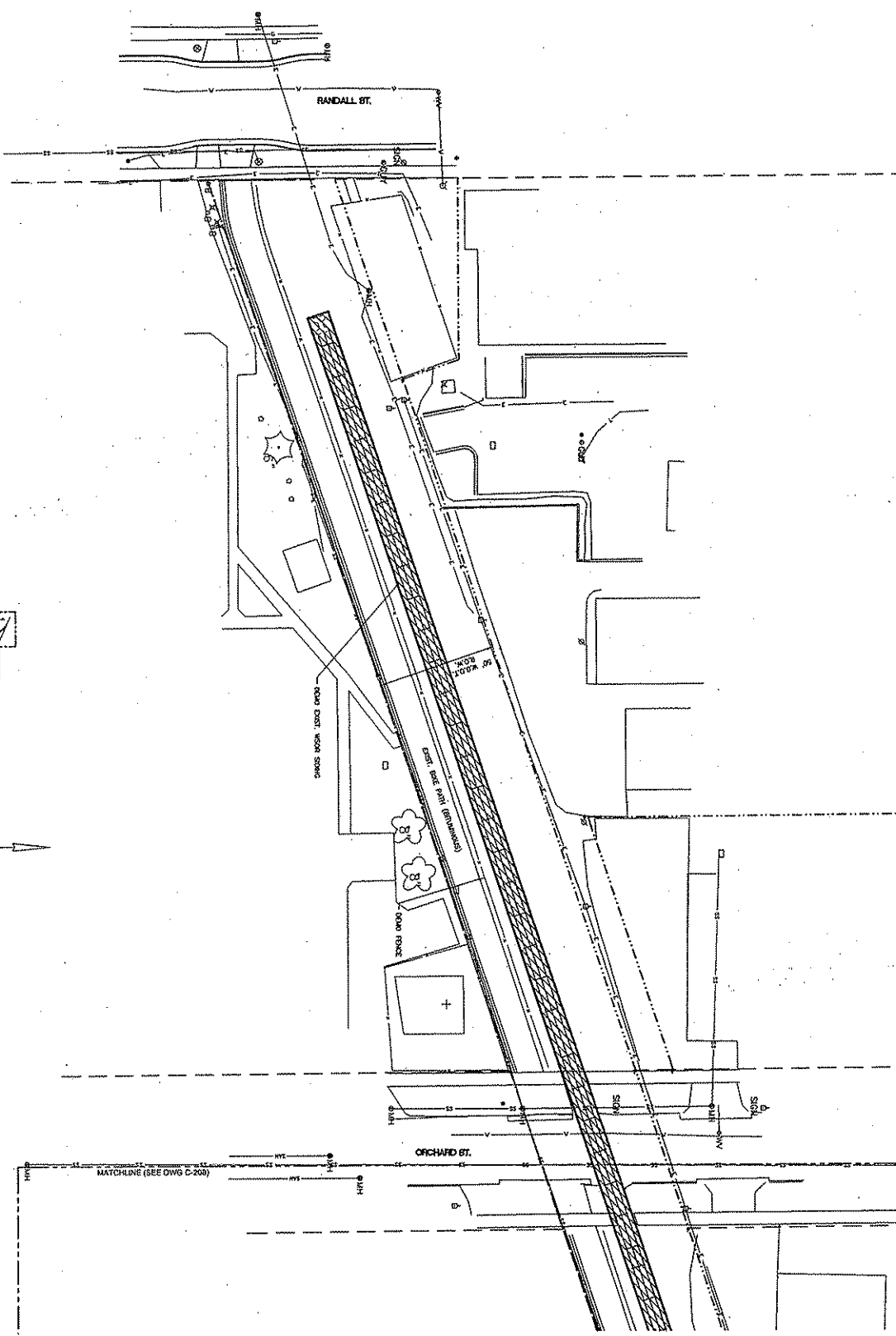
<b>POWER ENGINEERS COLLABORATIVE</b> 1730 S. PARKWAY SUITE 100 MADISON, WISCONSIN 53706		State of Wisconsin Department of Administration Division of State Facilities	
<b>PÖYRY</b> Potter Lawson		Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON	
<b>CHARTER STREET REBUILD</b> Project Location: MADISON, WI			
Sheet Title: GDP DEMOLITION PLAN			
Drawing No. 09202L	Date 03-10-16	Scale AS SHOWN	Sheet No. C-207

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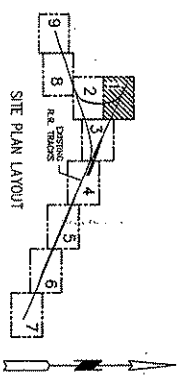
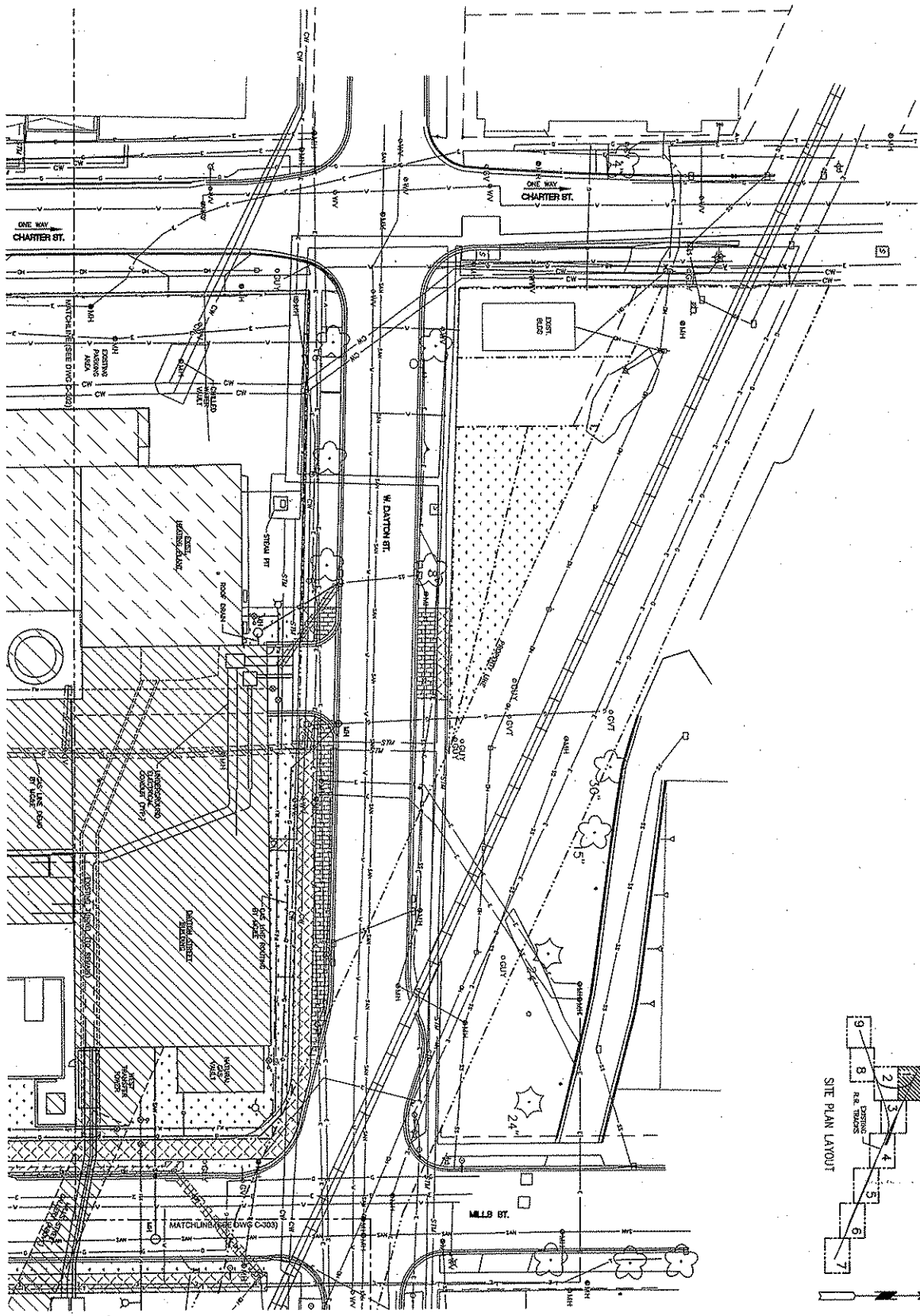


 POWER ENGINEERS CONSULTANTS 1500 E. WISCONSIN MADISON, WI 53706		 Pöyry		 Middleburgh		 Peter Larson	
State of Wisconsin Department of Administration Division of State Facilities							
Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON							
Project Title: <b>CHARTER STREET REBUILD</b>							
Project Location: MADISON, WI							
Sheet Title: GOP DEMOLITION PLAN							
Revision: No.   Date   By   Description							
Computer Code   Title   Number   Date							
Date Issued							
Sheet Number							

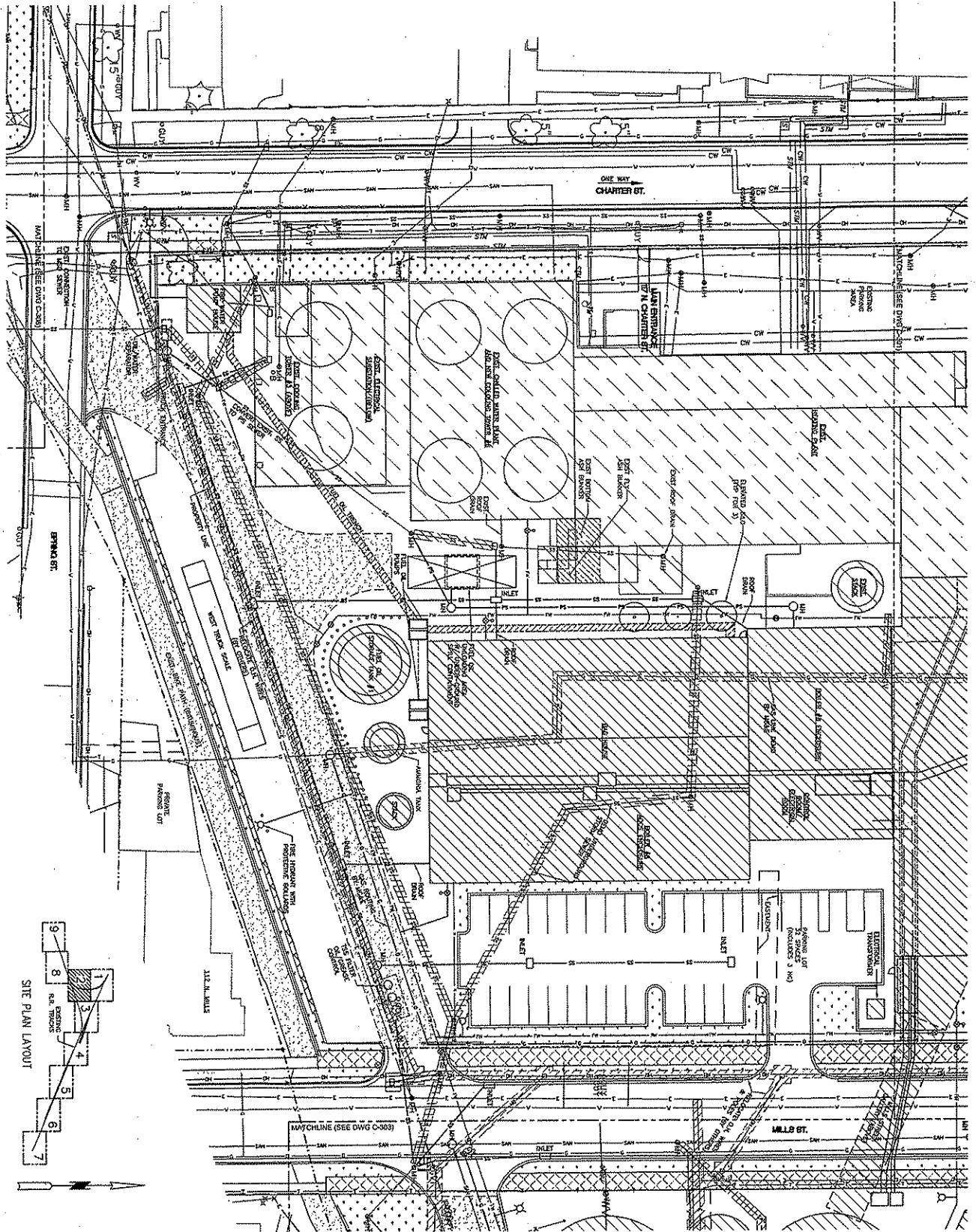
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State of Wisconsin Department of Administration Division of State Facilities	UNIVERSITY OF WISCONSIN, MADISON	<b>CHARTER STREET REBUILD</b> Project Location: <b>MADISON, WI.</b>	
		Sheet Title: <b>GDP DEMOLITION PLAN</b>	
<b>PEC</b> POWER ENGINEERS CONSULTANTS 130 SOUTH STATE STREET MADISON, WI 53703 608.261.1100 WWW.PECENGINEERS.COM	<b>BOYER</b> ENGINEERS 130 SOUTH STATE STREET MADISON, WI 53703 608.261.1100 WWW.BOYERENGINEERS.COM	<b>Middough</b> ENGINEERS 130 SOUTH STATE STREET MADISON, WI 53703 608.261.1100 WWW.MIDDOUGHENGINEERS.COM	<b>Peter Lawson</b> ENGINEERS 130 SOUTH STATE STREET MADISON, WI 53703 608.261.1100 WWW.PETERLAWSONENGINEERS.COM



Sheet Number <b>C-301</b>	Scale AS SHOWN	Date 03-10-10	Drawn PR	Check PR	Project Number 09A01	Code 09A01	Revision 1	Description 1.	Project Title <b>CHARTER STREET REBUILD</b>	Project Location <b>MADISON, WI.</b>	Agency / Institution <b>UNIVERSITY OF WISCONSIN, MADISON</b>						POWER ENGINEERS COLLABORATIVE LLC 1000 UNIVERSITY AVENUE MADISON, WI 53706-1300 WWW.POWERENGINEERS.COM
																	State of Wisconsin Department of Administration Division of State Facilities



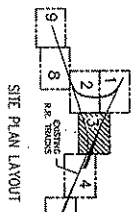
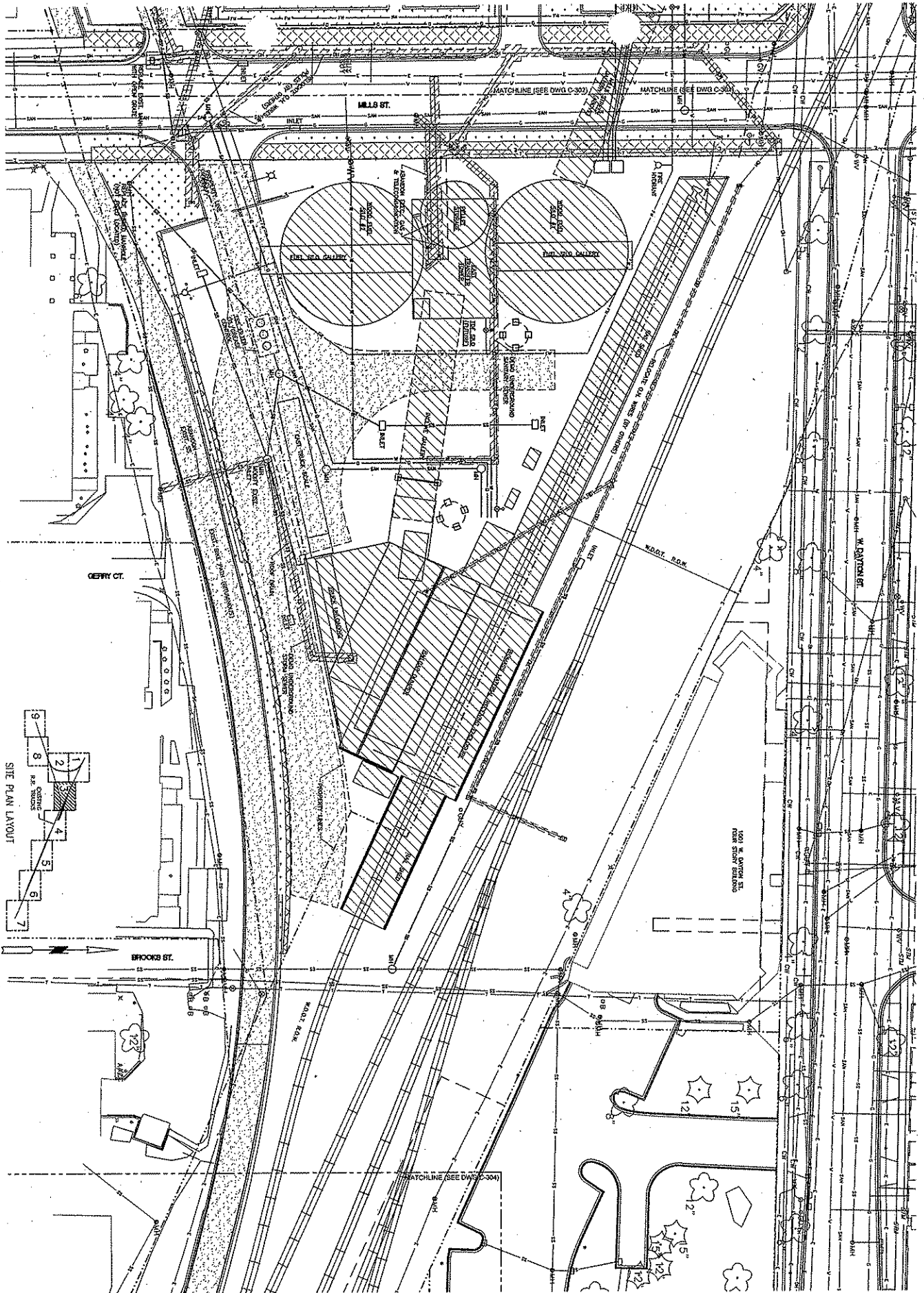
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C-302	03-10-10	PR	09/20/10

**CHARTER STREET REBUILD**  
 Project Location:  
**MADISON, WI.**  
 School Title:  
**ODP UTILITIES PLAN**

State of Wisconsin  
 Department of Administration  
 Division of State Facilities  
 Agency / Institution:  
**UNIVERSITY OF WISCONSIN, MADISON**

**PEC**  
 POWER ENGINEERS  
 CONSULTANTS  
 1007 SOUTH MOORE ROAD  
 MADISON, WI 53704  
 (608) 263-1110  
**PÖYRY**  
 CONSULTANTS  
**Robert Lawton**

5



Sheet No.	C-303
Date	03-10-10
Type	PR
Scale	AS SHOWN
Drawn By	GA/DEL
Checked By	PR
Project No.	03-10-10
Revision	
Author	
Checker	
Approver	

**CHARTER STREET REBUILD**

Project Location:  
**MADISON, WI.**

Sheet Title:  
**GDP UTILITIES PLAN**

State of Wisconsin  
Department of Administration  
Division of State Facilities

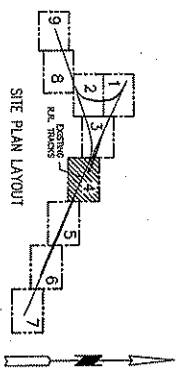
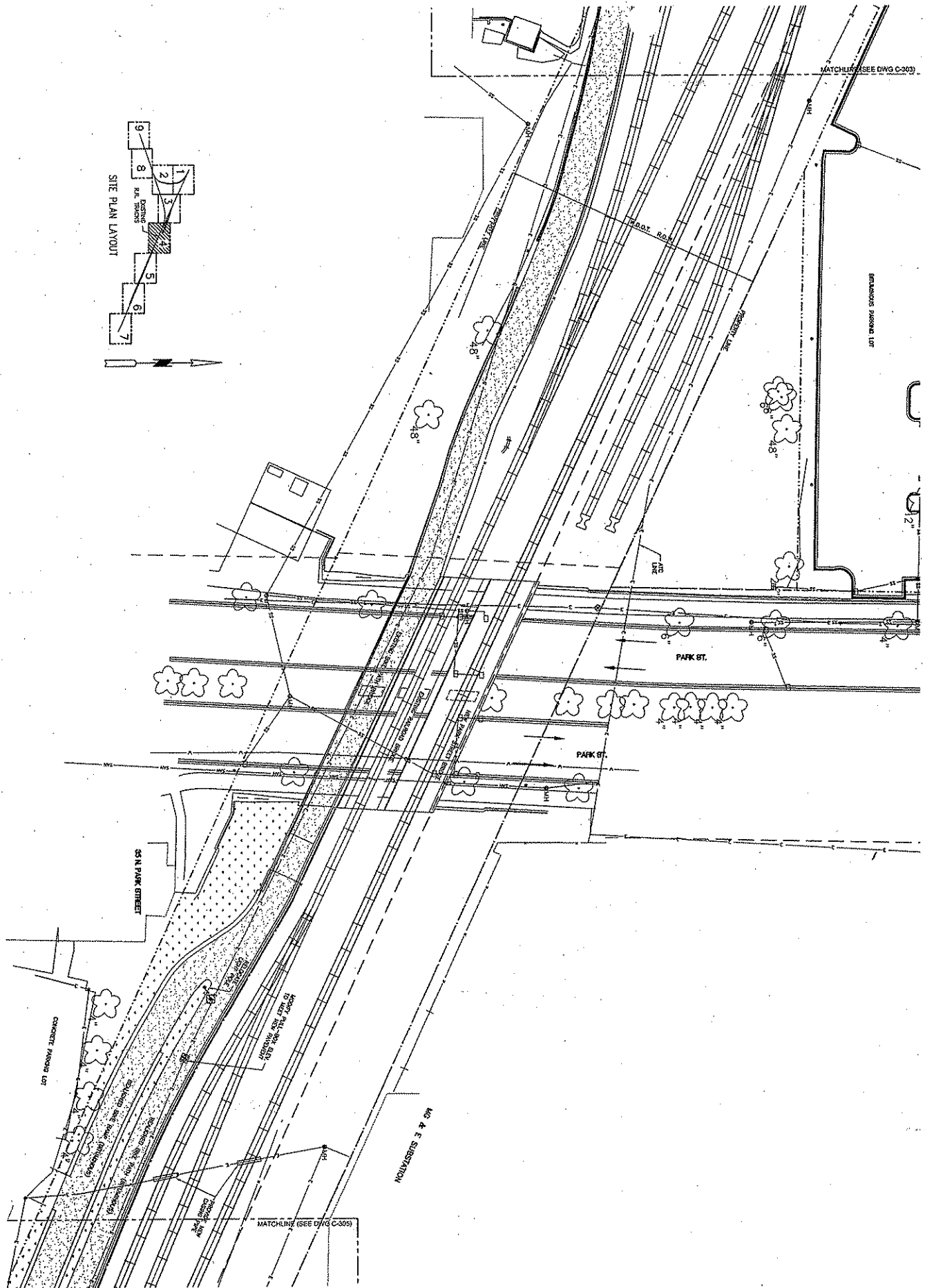
Agency / Institution:  
UNIVERSITY OF WISCONSIN, MADISON

**Pöyry**  
POWER ENGINEERS  
CONSULTANTS  
100 W. WASHINGTON ST.  
MADISON, WI 53703  
WWW.POYRY.COM

**midknight**  
POWER ENGINEERS  
CONSULTANTS  
100 W. WASHINGTON ST.  
MADISON, WI 53703  
WWW.MIDKIGHT.COM

**REC**

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Sheet No.	C-304
Scale	AS SHOWN
Date	03-10-10
Drawn By	PR
Checked By	09/10/10
Project No.	09/10/10
Project Name	CHARTER STREET REBUILD

**Project Title:**  
**CHARTER STREET REBUILD**  
**Project Location:**  
**MADISON, WI.**  
**Sheet Title:**  
**UDP UTILITIES PLAN**

State of Wisconsin  
 Department of Administration  
 Division of State Facilities  
 Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON

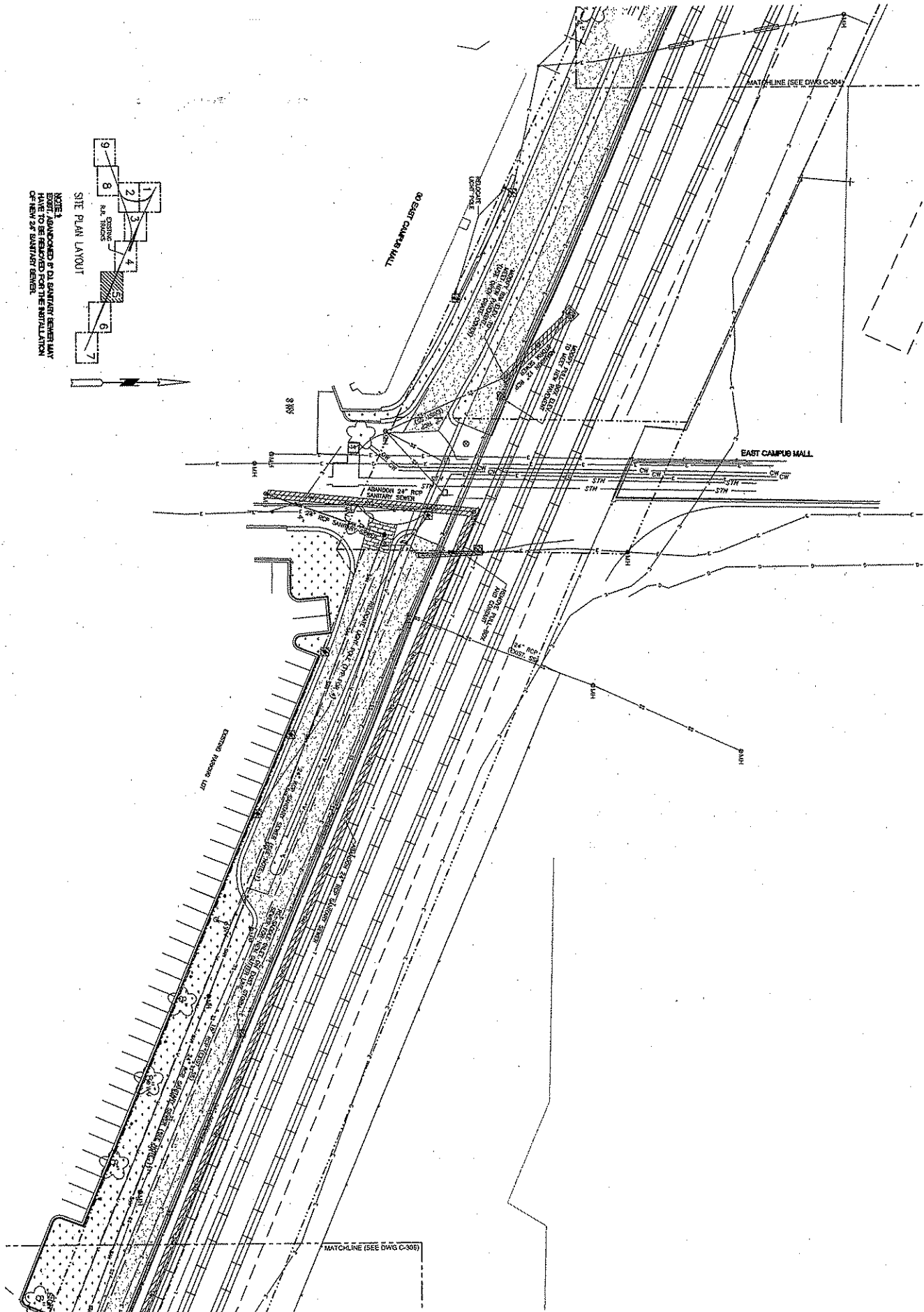
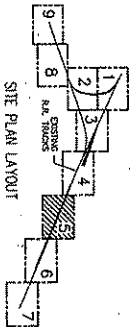
**PEC**  
 POWER ENGINEERS  
 CONSULTANTS  
 100 SOUTH PARK STREET  
 MADISON, WI 53706  
 WWW.POWERENGINEERS.COM

**Pöyry**  
 CONSULTANTS  
 100 SOUTH PARK STREET  
 MADISON, WI 53706  
 WWW.POYRY.COM

**Peter Lawson**  
**midkiff**



NOTES:  
 1. ABANDONED 6" DI. SANITARY SEWER MAIN  
 2. HAVE TO BE REMOVED FOR THE REINSTALLATION  
 3. OF NEW 24" DI. SANITARY SEWER



Sheet Number	C-305
Scale	AS SHOWN
Drawn	RR
Check	RR
Date	03-10-10
Project No.	09A2L
Contract No.	
Order No.	

Project Title: **CHARTER STREET REBUILD**

Project Location: **MADISON, WI.**

Sheet Title: **GDP UTILITIES PLAN**

State of Wisconsin  
 Department of Administration  
 Division of State Facilities

Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON

**PEC**

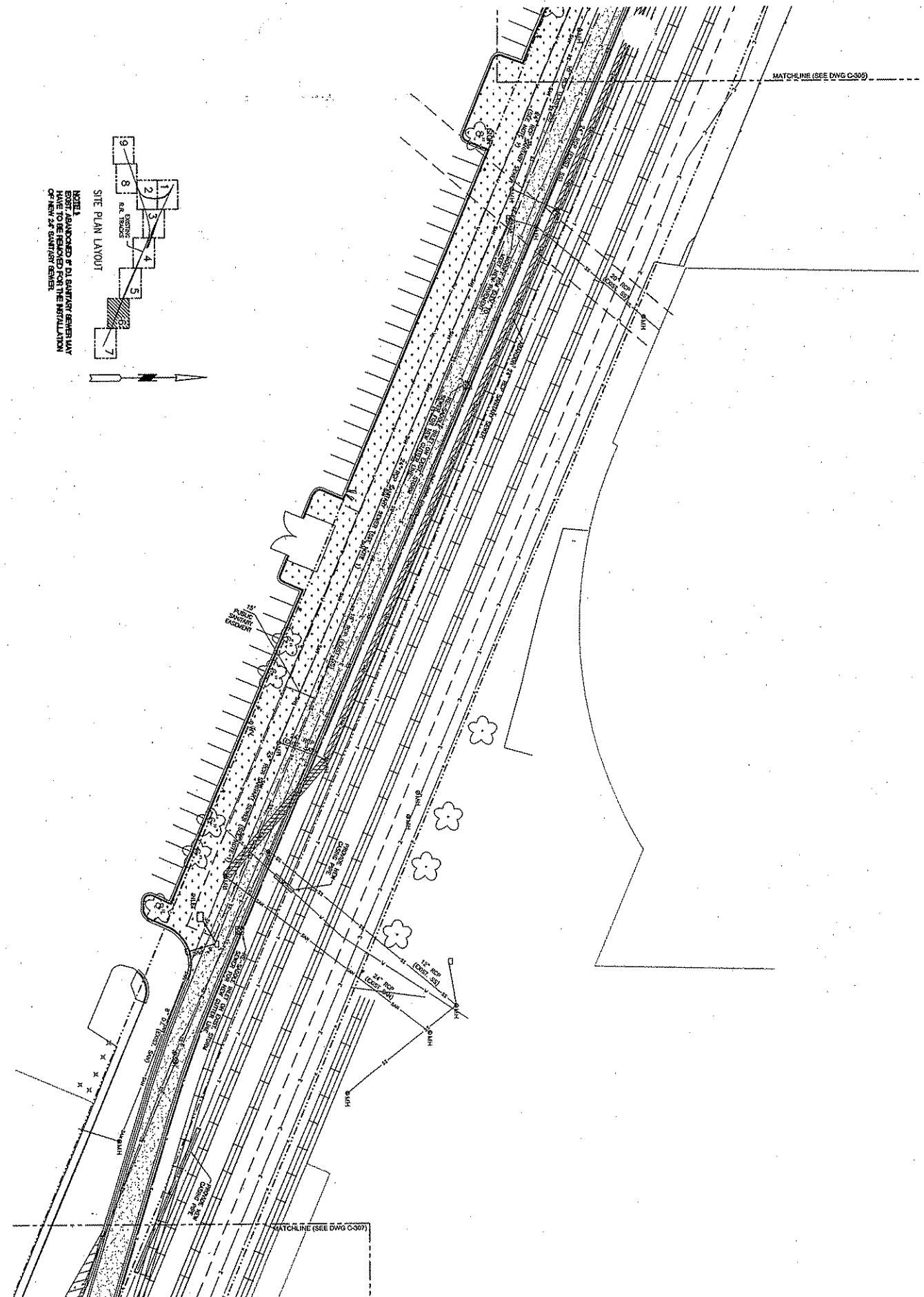
POWER ENGINEERS  
 COLLABORATIVE LLC  
 125 SOUTH STATE STREET  
 MADISON, WISCONSIN 53703  
 (608) 263-8800  
 WWW.POWERENGINEERS.COM

**POYRY**

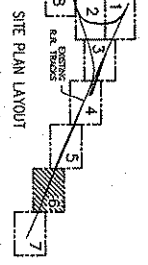
**Midtgaard**


**Robert Lawson**

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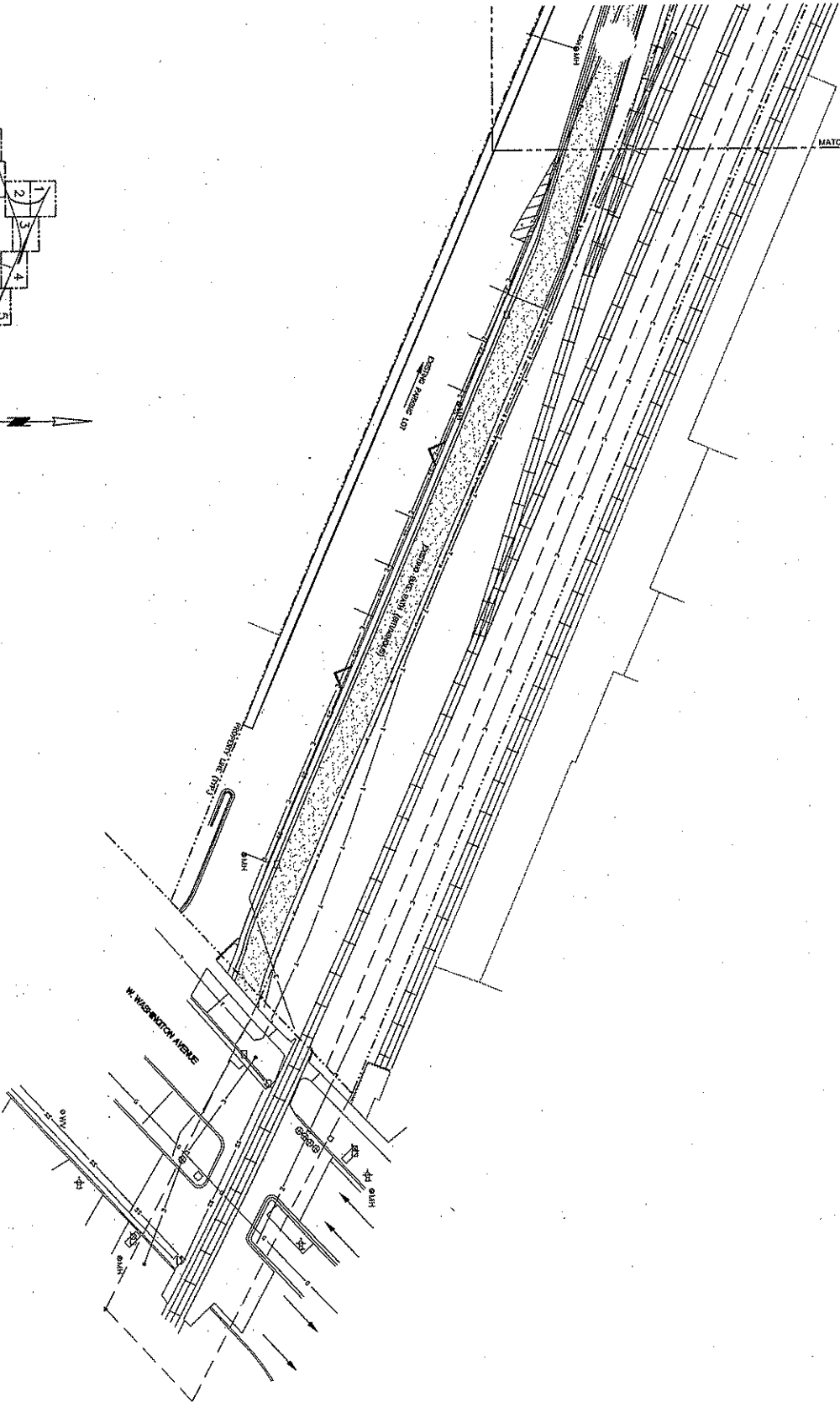
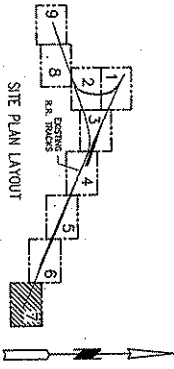


NOTE:  
EXIST. ABANDONED 8\"/>



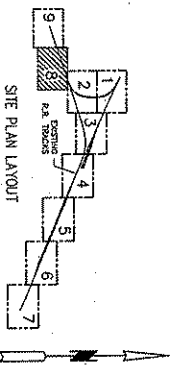
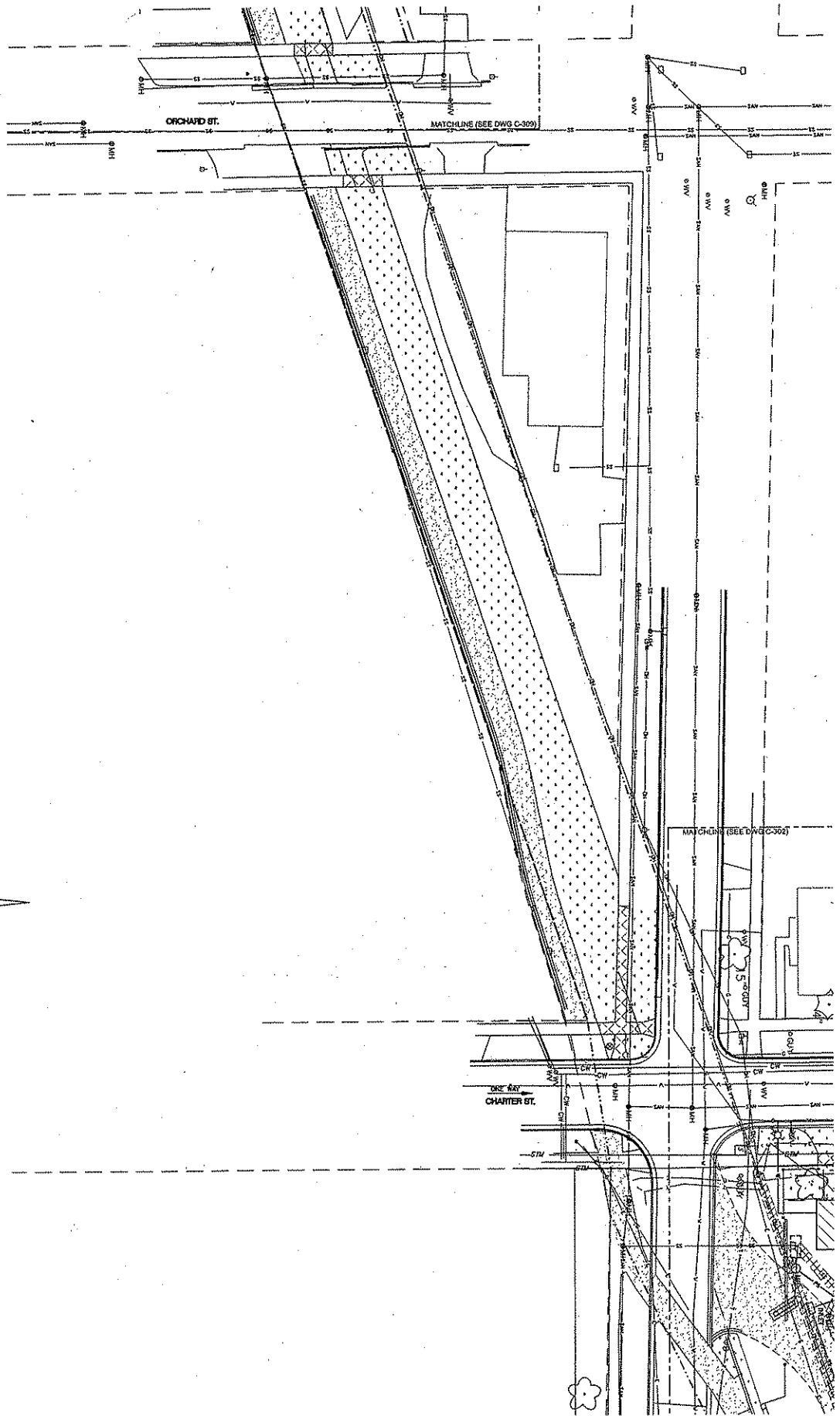
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Sheet Number	C-306												
Date	03-10-10												
Scale	PR												
Drawn By	09/201												
Checked By													

5







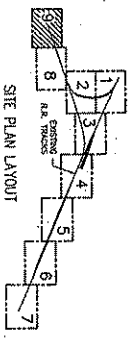
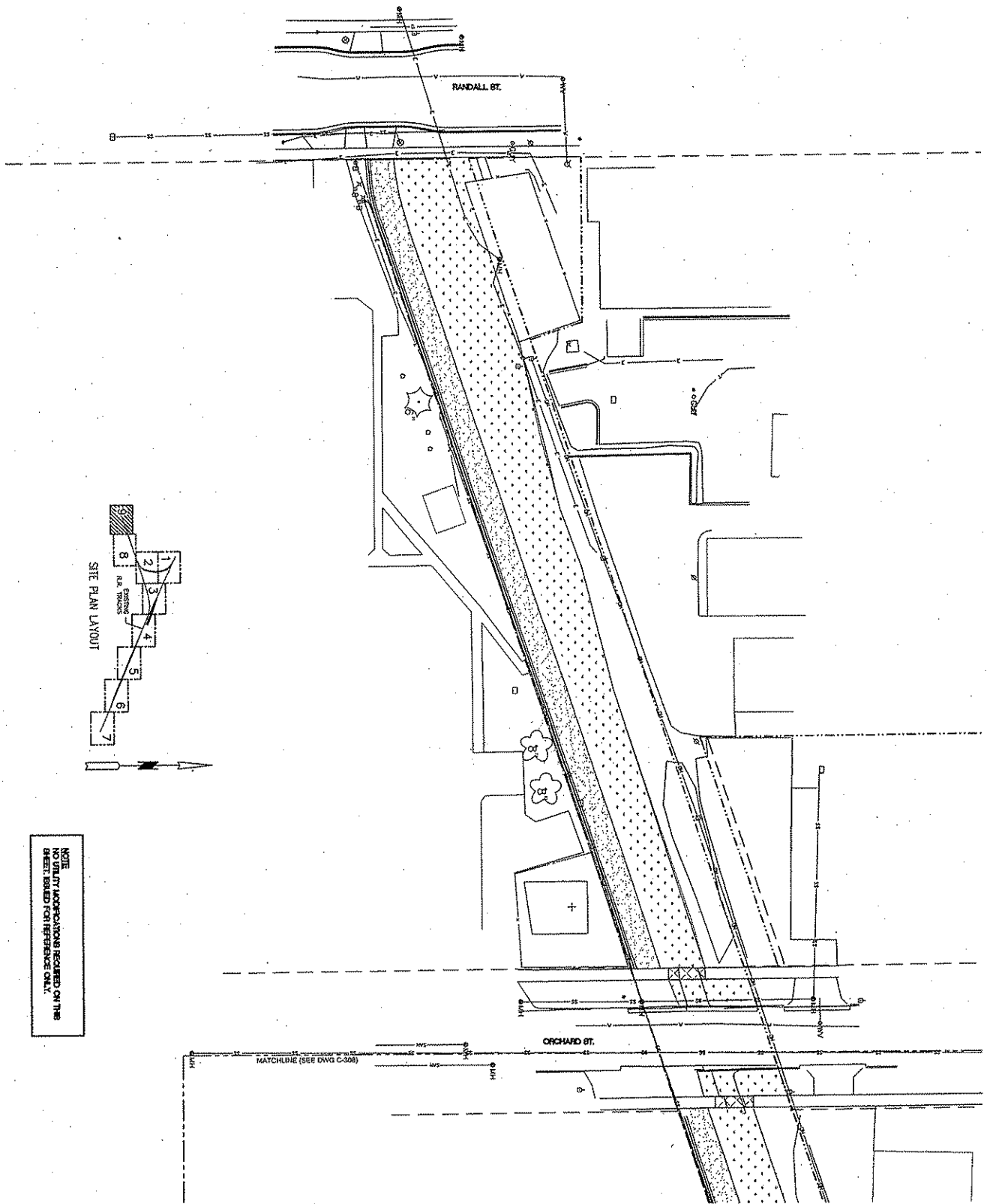
NOTE: NO UTILITY LOCATIONS REQUIRED ON THIS SHEET, EXCEPT FOR REFERENCE ONLY.

	<b>POWER ENGINEERS</b> COLLABORATIVE LLC 189 STATE ST., 1ST FLOOR MADISON, WI 53703 (608) 263-1000 WWW.POWERCOLL.COM	<b>PÖYRY</b> CONSULTANTS 1000 UNIVERSITY AVENUE MADISON, WI 53706 (608) 263-1000 WWW.POYRY.COM	<b>midknight</b> ENGINEERS 1000 UNIVERSITY AVENUE MADISON, WI 53706 (608) 263-1000 WWW.MIDKIGHT.COM	<b>Peter Lawson</b> ENGINEERS 1000 UNIVERSITY AVENUE MADISON, WI 53706 (608) 263-1000 WWW.PETERLAWSON.COM	Project Title: <b>CHARTER STREET REBUILD</b>	State of Wisconsin Department of Administration Division of State Facilities
					Project Location: <b>MADISON, WI.</b>	Agency / Institution: <b>UNIVERSITY OF WISCONSIN, MADISON</b>
Sheet Number: <b>C-307</b>	Date Issued: <b>03-10-10</b>	Drawn By: <b>PR</b>	Checked By: <b>PR</b>	Scale: <b>AS SHOWN</b>	Project Number: <b>09A2L</b>	Drawing Number: <b>09A2L</b>



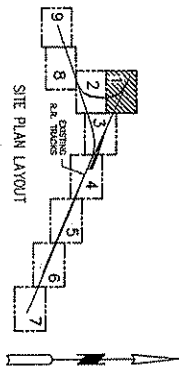
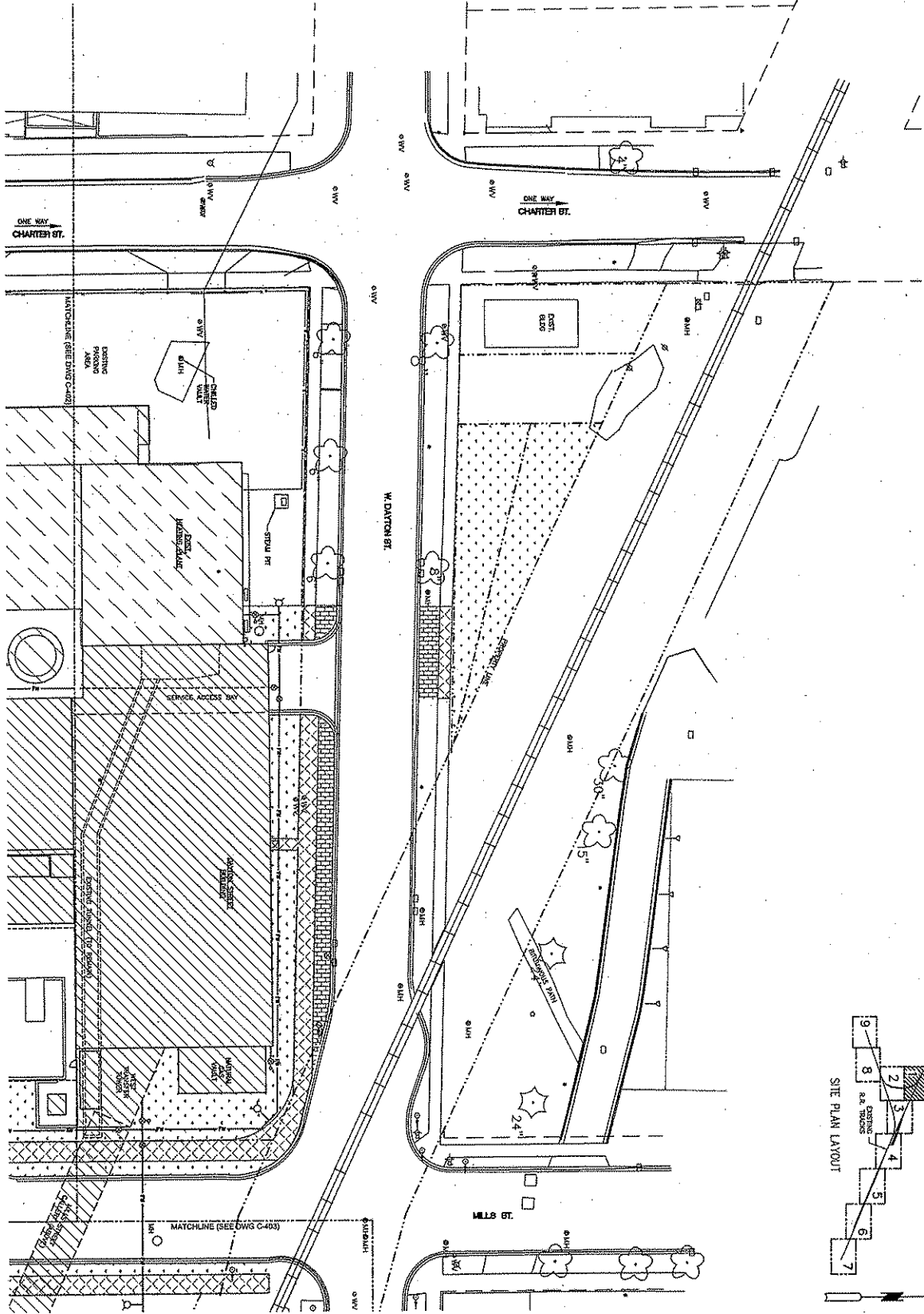
NOTE: ALL MODIFICATIONS REQUIRED ON THIS SHEET SHALL BE FOR REFERENCE ONLY.

							
POWER ENGINEERS CONSULTANTS LTD. 1000 WISCONSIN ST. S.W. WASHINGTON, D.C. 20007		CONSULTANTS LTD. 1000 WISCONSIN ST. S.W. WASHINGTON, D.C. 20007		CONSULTANTS LTD. 1000 WISCONSIN ST. S.W. WASHINGTON, D.C. 20007		CONSULTANTS LTD. 1000 WISCONSIN ST. S.W. WASHINGTON, D.C. 20007	
State of Wisconsin Department of Administration Division of State Facilities				Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON			
Project Title: <b>CHARTER STREET REBUILD</b>							
Project Location: MADISON, WI.							
Sheet Title: GDP UTILITIES PLAN							
Sheet Number <b>C-308</b>	Date 03-10-10	Drawn By FR	Checked By 09/10/10	Scale AS SHOWN	Project Number 09/10/10	Revision 01	Description GDP UTILITIES PLAN



NOTE:  
NO UTILITY MODIFICATIONS REQUIRED ON THIS SHEET BEYOND FOR REFERENCE ONLY.

State of Wisconsin Department of Administration Division of State Facilities		PROFESSIONAL ENGINEERS COLLABORATIVE CONSULTANTS 105 South State Street Madison, WI 53703 (608) 257-1000 WWW.PECENGINEERS.COM
<b>CHARTER STREET REBUILD</b> Project Title: Project Location: <b>MADISON, WI</b>		<b>Pöyry</b> Project Location: <b>MADISON, WI</b>
Sheet Title: <b>GDP UTILITIES PLAN</b>		Agency / Institution: <b>UNIVERSITY OF WISCONSIN, MADISON</b>
Date: <b>03-10-10</b>	Scale: <b>1" = 40'</b>	Drawing No.: <b>C-309</b>
Designer: <b>PR</b>	Checker: <b>09/20L</b>	Project No.: <b>09/20L</b>
Title Block: <b>PEC</b>	Project No.: <b>09/20L</b>	Drawing No.: <b>C-309</b>



Sheet Number	C-401
Date	03-10-10
Scale	PR
Drawn By	GNAL
Checked By	
Project Title	CHARTER STREET REBUILD
Project Location	MADISON, WI
Sheet Title	GDP FIRE WATER PLAN

Project Title:  
**CHARTER STREET REBUILD**

Project Location:  
**MADISON, WI**

Sheet Title:  
**GDP FIRE WATER PLAN**

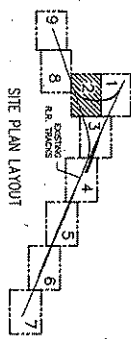
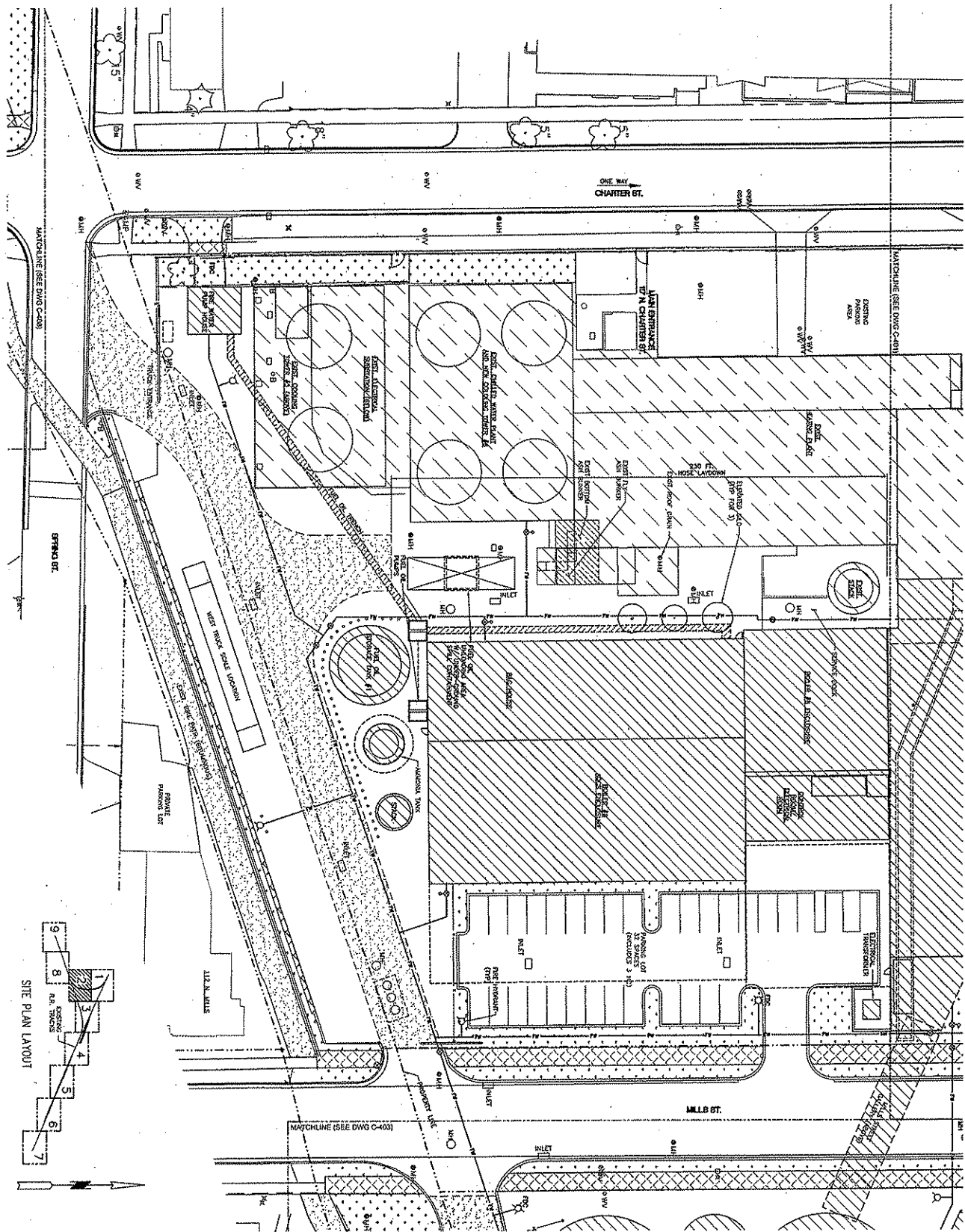
State of Wisconsin  
Department of Administration  
Division of State Facilities

Agency / Institution:  
UNIVERSITY OF WISCONSIN, MADISON

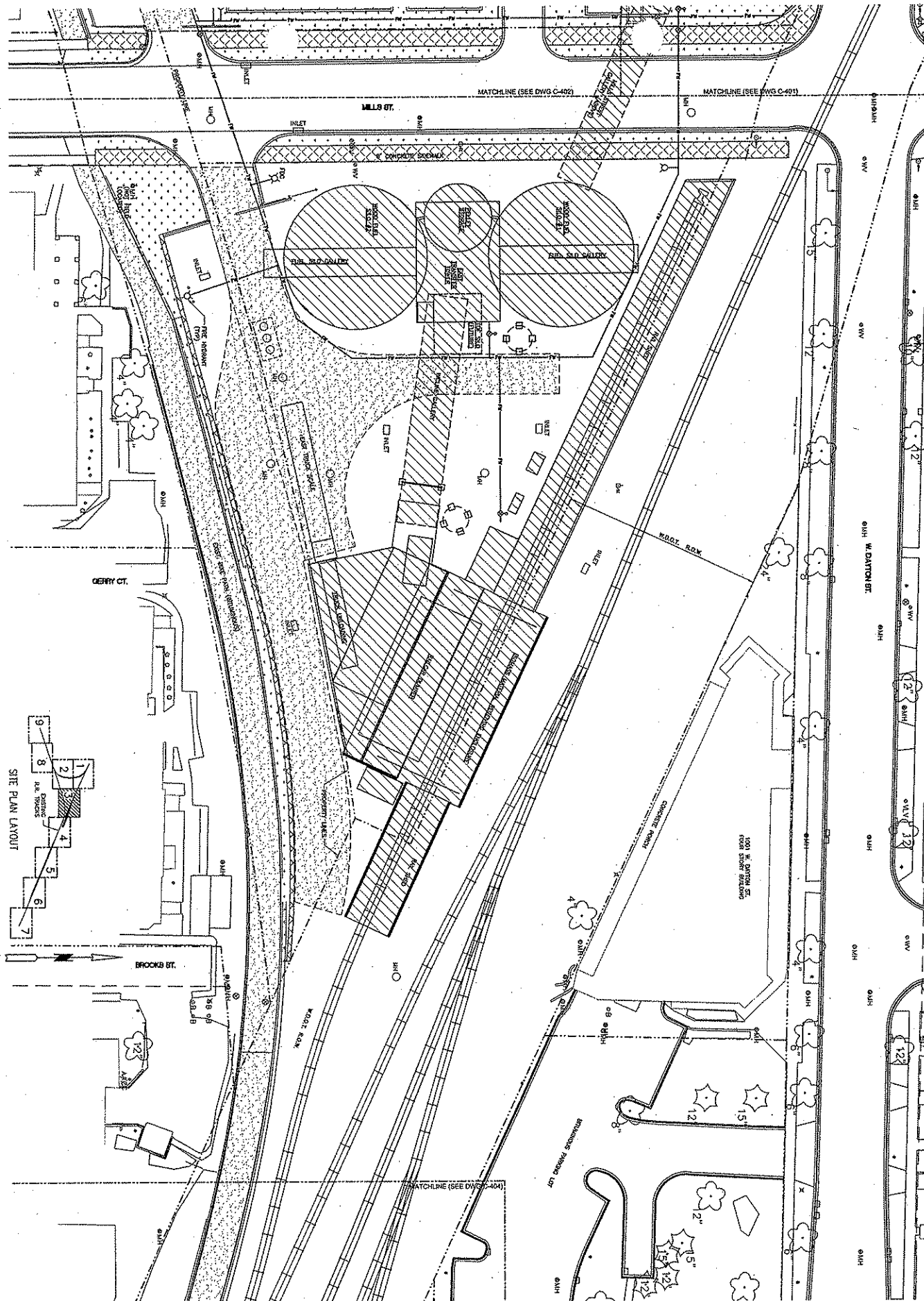
**PEC**  
POWER ENGINEERS & ARCHITECTS  
1207 SOUTH PARK ROAD  
MADISON, WI 53704  
608.261.1100  
WWW.POWERENGINEERS.COM

**PÖYRY**  
Engineering & Architecture

**Peter Lawson**



<table border="1"> <tr><td>Sheet Number</td><td>C-402</td></tr> <tr><td>Date</td><td>03-10-10</td></tr> <tr><td>Scale</td><td>PR</td></tr> <tr><td>Drawn By</td><td>09/102</td></tr> <tr><td>Checked By</td><td></td></tr> <tr><td>Project No.</td><td></td></tr> <tr><td>Revision</td><td></td></tr> <tr><td>Author</td><td></td></tr> <tr><td>Appr.</td><td></td></tr> <tr><td>Scale</td><td></td></tr> <tr><td>Notes</td><td></td></tr> <tr><td>Revised</td><td></td></tr> <tr><td>By</td><td></td></tr> <tr><td>Date</td><td></td></tr> <tr><td>Checked</td><td></td></tr> <tr><td>Date</td><td></td></tr> <tr><td>By</td><td></td></tr> <tr><td>Date</td><td></td></tr> <tr><td>By</td><td></td></tr> <tr><td>Date</td><td></td></tr> </table>	Sheet Number	C-402	Date	03-10-10	Scale	PR	Drawn By	09/102	Checked By		Project No.		Revision		Author		Appr.		Scale		Notes		Revised		By		Date		Checked		Date		By		Date		By		Date		<p><b>CHARTER STREET REBUILD</b></p> <p>Project Location: MADISON, WI.</p> <p>Sheet Title: GDP FIRE WATER PLAN</p>	<p>State of Wisconsin Department of Administration Division of State Facilities</p> <p>Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON</p>	<p><b>PEC</b></p> <p>POWER ENGINEERS OF WISCONSIN 1000 UNIVERSITY BLVD MADISON, WI 53706 608-263-1100 WWW.POWERENGINEERS.COM</p> <p><b>PÖRY</b></p> <p><b>middleburgh</b></p> <p><b>Pater Lawson</b></p>
Sheet Number	C-402																																										
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Project Title	CHARTER STREET REBUILD
Project Location	MADISON, WI.
Sheet Title	GDP FIRE WATER PLAN
Scale	AS SHOWN
Drawn By	PR
Check By	PR
Date	03-10-10
Sheet Number	C-403

Project Title: CHARTER STREET REBUILD  
 Project Location: MADISON, WI.  
 Sheet Title: GDP FIRE WATER PLAN

State of Wisconsin  
 Department of Administration  
 Division of State Facilities

Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON

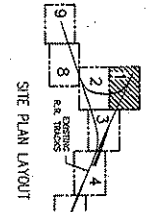
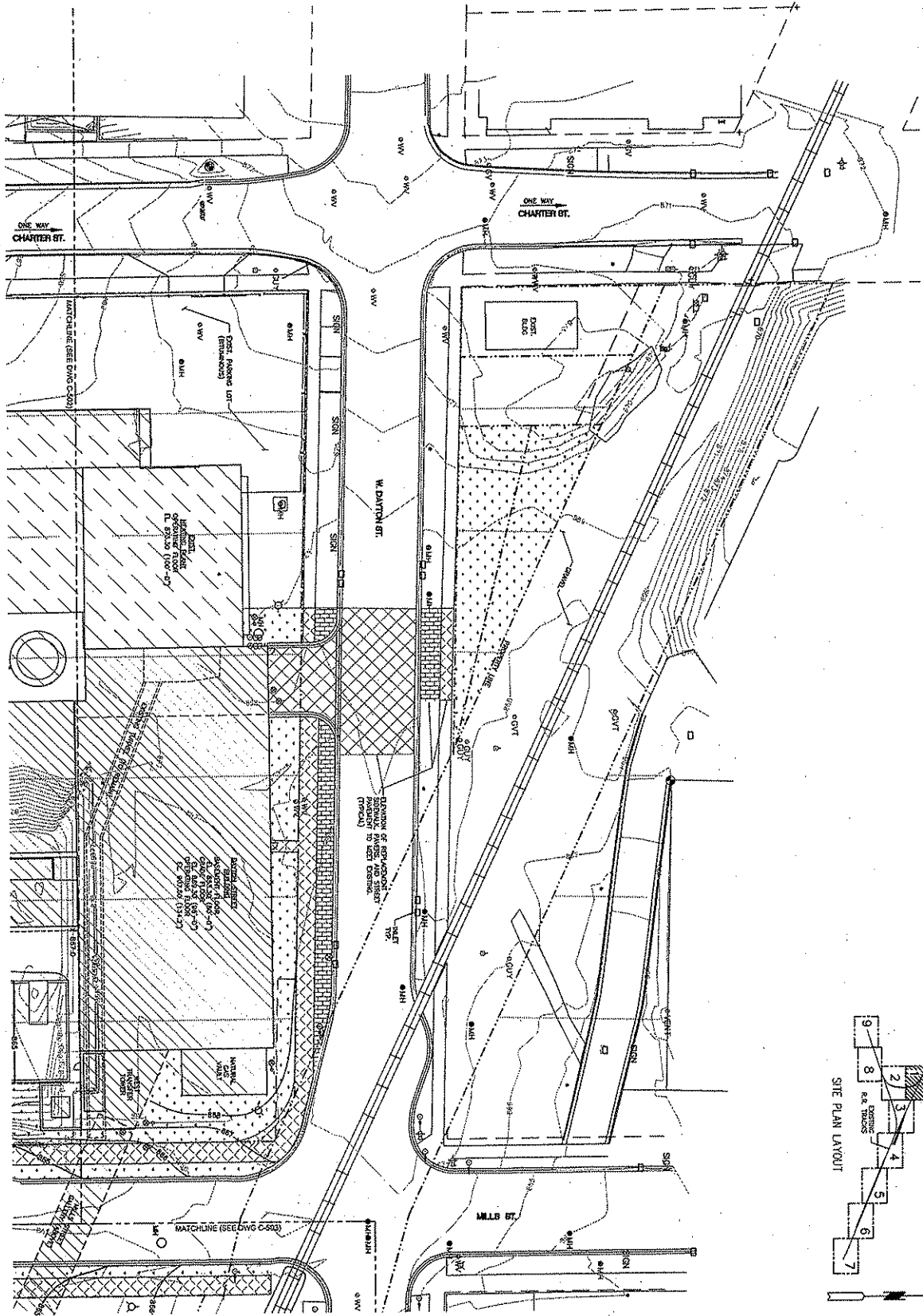
**PEC**  
 POWER ENGINEERS  
 COLLABORATIVE LLC  
 105 South Park Street  
 Madison, WI 53703  
 (608) 261-1100  
 www.pec-engineers.com



**PÖYRY**  
 1001 W. GARDNER ST.  
 MADISON, WI 53704  
 (608) 261-1100  
 www.poyry.com

**Mitthöfner**  
 Robert Lawton

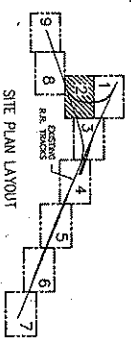
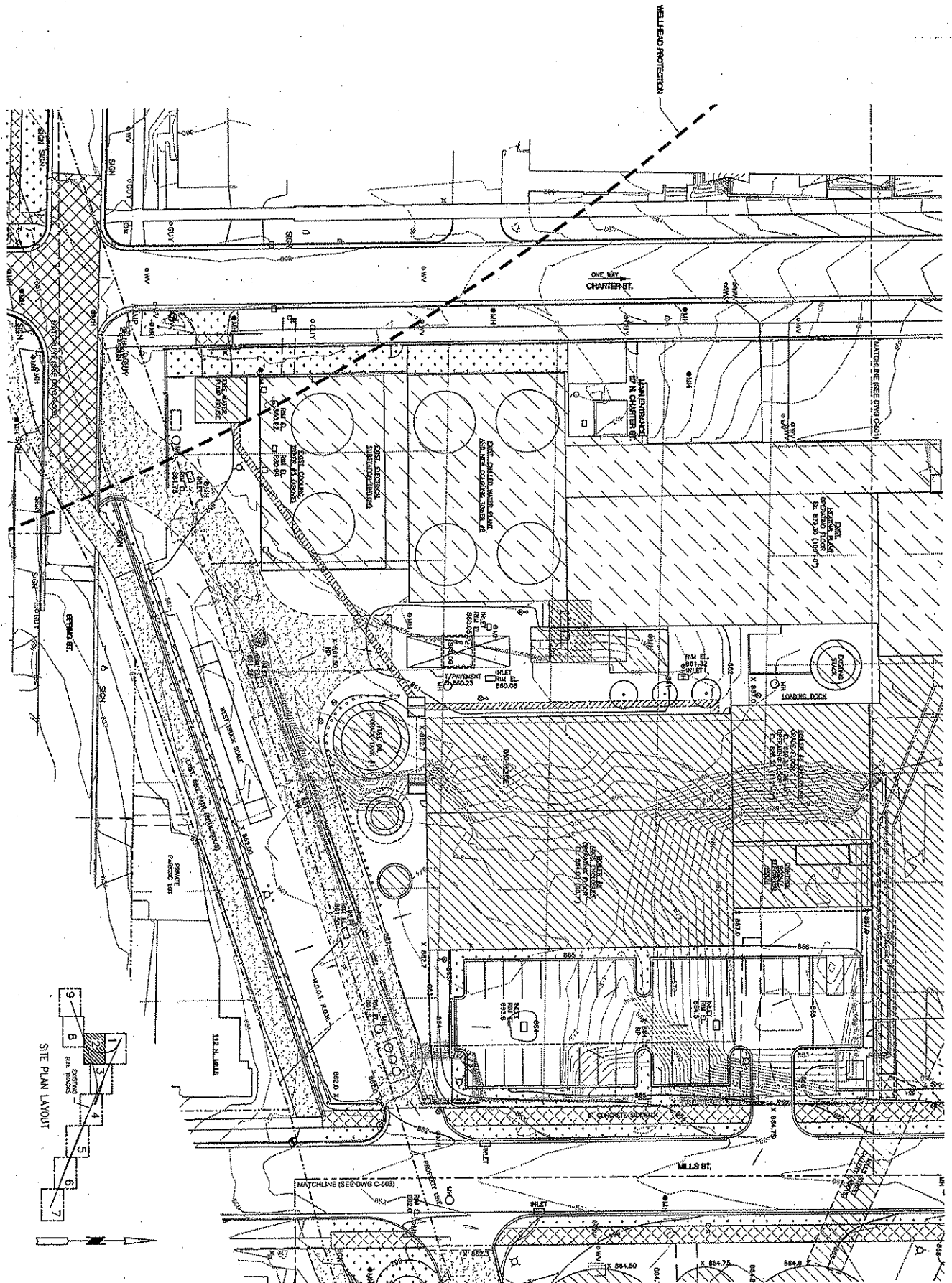
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Sheet <b>C-501</b>	Date 03-10-10	Design 093AL	Project Title <b>CHARTER STREET REBUILD</b>	 State of Wisconsin Department of Administration Division of State Facilities	 <b>PEC</b> <small>POWER ENGINEERS          COLLABORATIVE LLC          150 WEST WISCONSIN AVENUE          MADISON, WISCONSIN 53703          608.261.1100          WWW.POWERENGINEERS.COM</small>	
	Title PR	Scale AS SHOWN	Project Location <b>MADISON, WI.</b>			Agency / Institution UNIVERSITY OF WISCONSIN, MADISON
	Author JBL	Date 03-10-10	Sheet Title <b>GDP GRADING AND DRAINAGE PLAN</b>			
	Check JBL	Date 03-10-10	Project No. 093AL			

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Project Title	CHARTER STREET REBUILD
Project Location	MADISON, WI.
Sheet Title	ODP GRADING AND DRAINAGE PLAN
Scale	AS SHOWN
Author	PR
Date	03-10-10
Sheet Number	C-502

State of Wisconsin  
 Department of Administration  
 Division of State Facilities

Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON

**PEC**

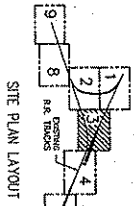
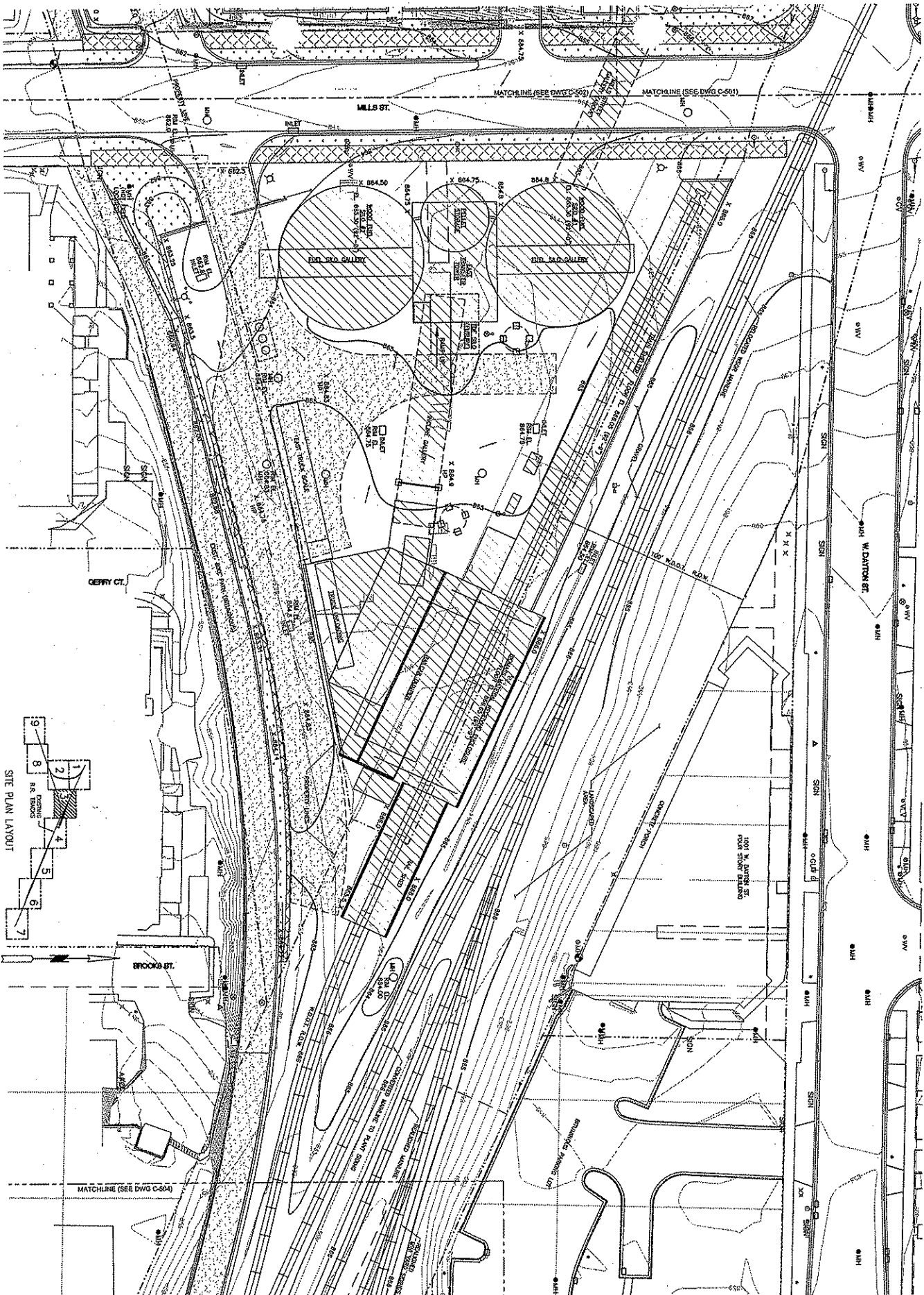
COVER SERVICES  
 1700 S. KANAWHA BLVD  
 SUITE 100  
 WILSONVILLE, OR 97150  
 (503) 399-3000

**PÖYRY**

**mittlough**


**Peter Lawson**


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Project Title	CHARTER STREET REBUILD
Project Location	MADISON, WI
Sheet Title	GDP GRADING AND DRAINAGE PLAN
Scale	AS SHOWN
Author	PS
Date	03-10-10
Sheet Number	C-503

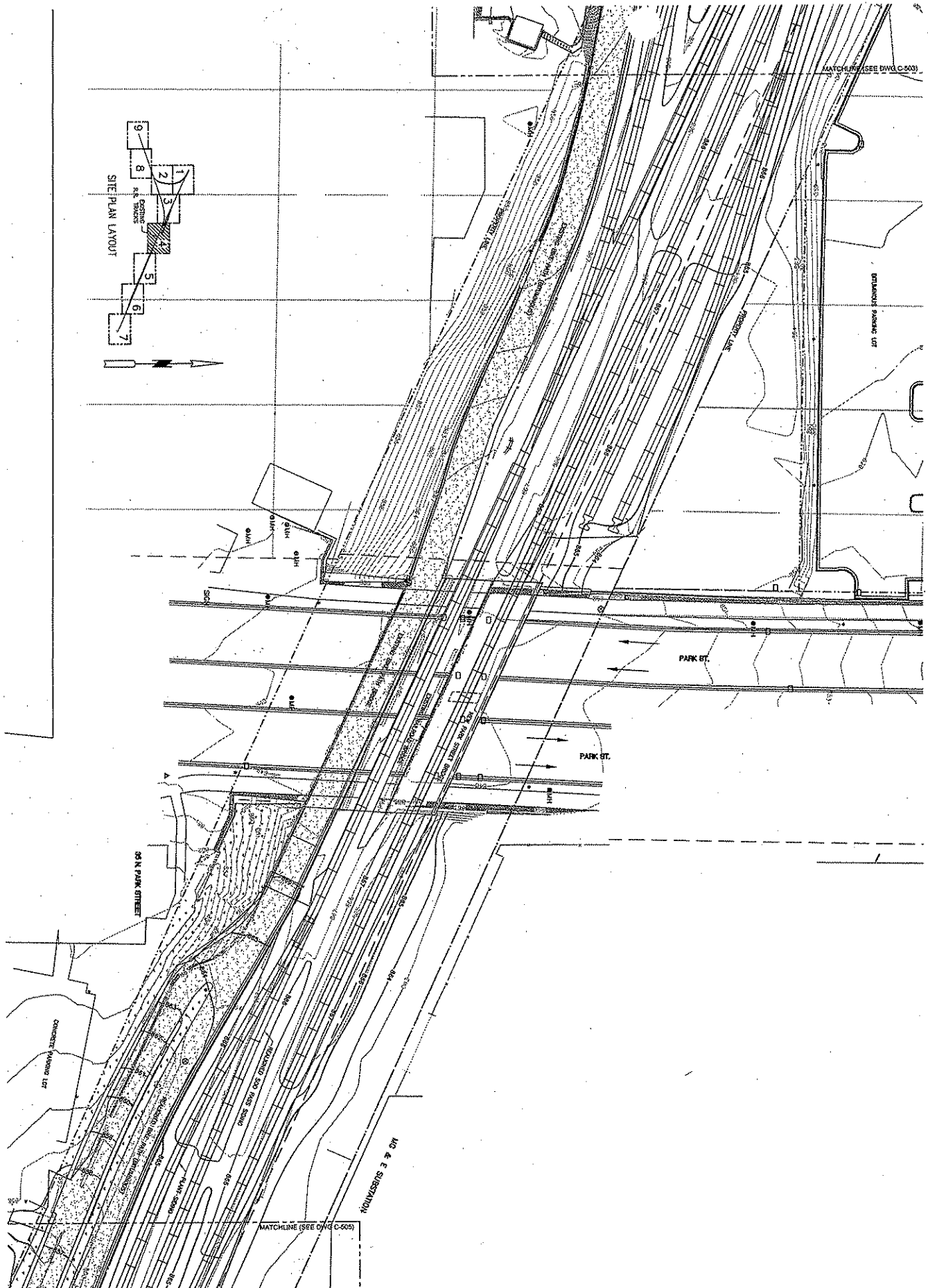

 State of Wisconsin  
 Department of Administration  
 Division of State Facilities  
 Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON


 POWER ENGINEERING  
 CONSULTANTS  
 100 South Park Road  
 Madison, WI 53706  
 WWW.PECORW.COM


 Pöyry



 Potter Lawson


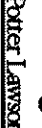


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Revision	
Author	
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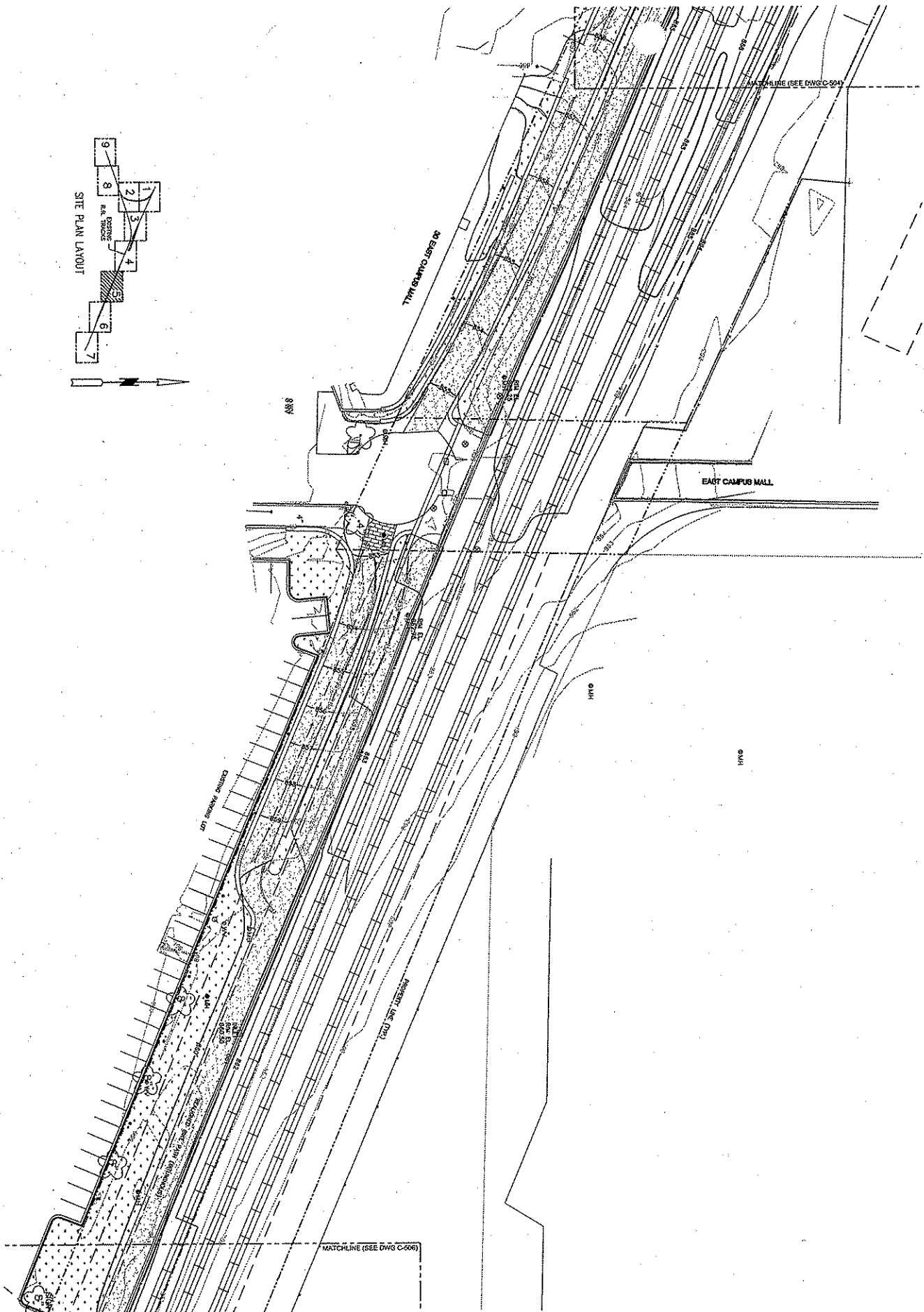
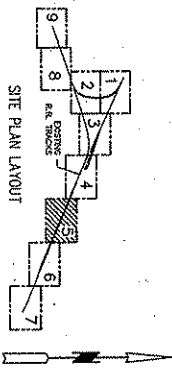
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**CHARTER STREET REBUILD**  
 Project Location:  
**MADISON, WI**  
 Sheet Title:  
**GDP GRADING AND DRAINAGE PLAN**


 State of Wisconsin  
 Department of Administration  
 Division of State Facilities  
 Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON

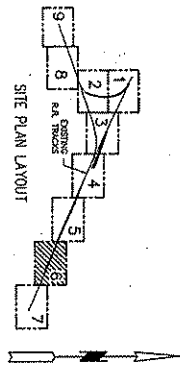
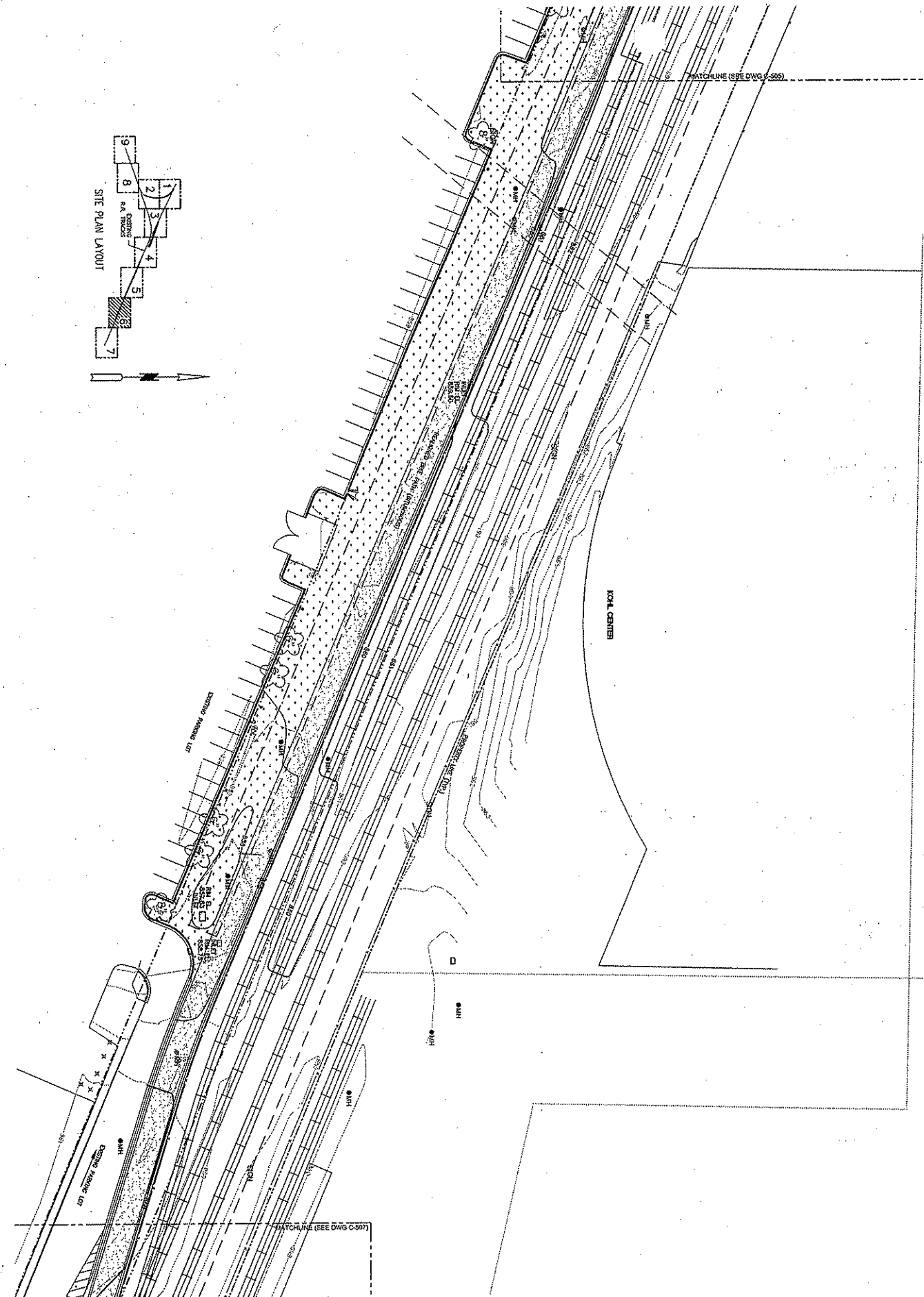
OWNER'S ENGINEERS  
 CONSULTANTS AND ARCHITECTS  
 100 South State Street  
 3rd Floor  
 Madison, WI 53703

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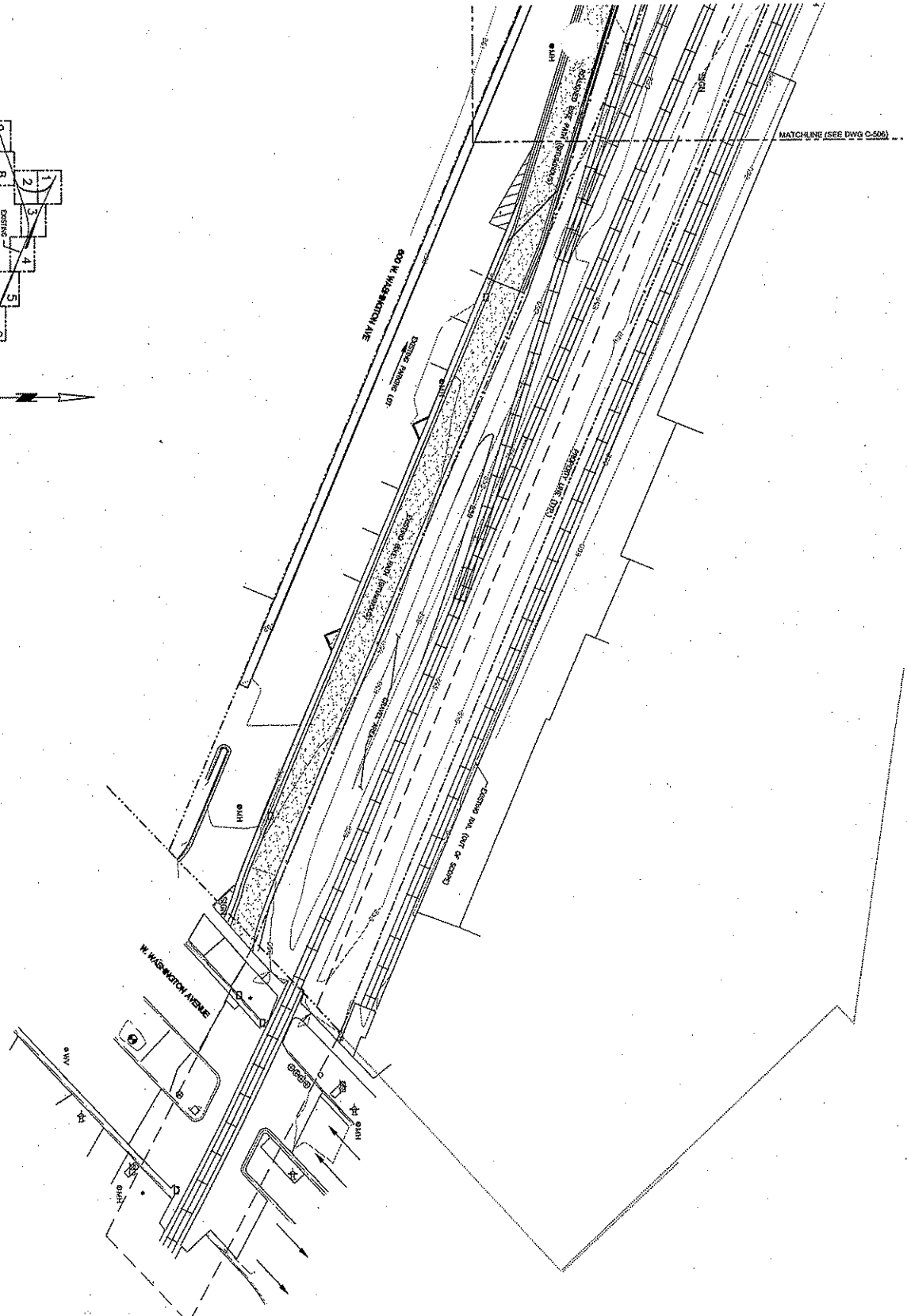
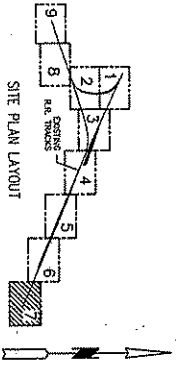
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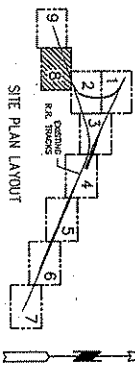
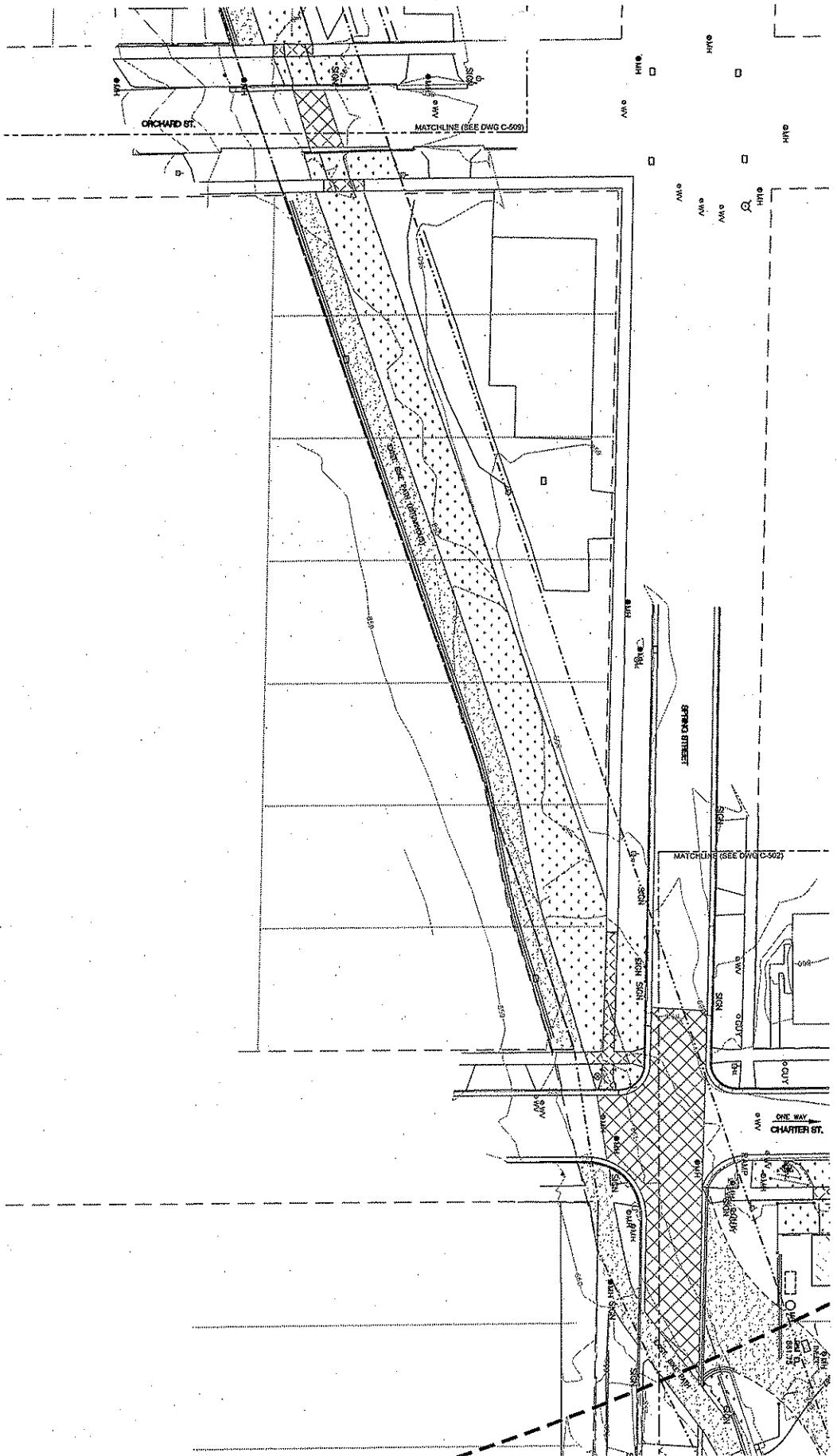
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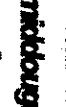
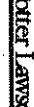



<b>PEG</b> PROFESSIONAL ENGINEERING GROUP 130 SOUTH 10TH STREET MADISON, WISCONSIN 53703 WWW.PEGGROUP.COM		<b>Pöyry</b> 130 SOUTH 10TH STREET MADISON, WISCONSIN 53703 WWW.POYRY.COM		<b>Peter Lawson</b> 130 SOUTH 10TH STREET MADISON, WISCONSIN 53703 WWW.PETERLAWSON.COM	
<b>CHARTER STREET REBUILD</b> State of Wisconsin Department of Administration Division of State Facilities					
Project Location: <b>MADISON, WI.</b>					
Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON					
Sheet Title: GDP GRADING AND DRAINAGE PLAN					
Project Title: <b>CHARTER STREET REBUILD</b>					
Project Location: <b>MADISON, WI.</b>					
Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON					
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Revision:					
No.	Date	By	Checked		
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Date: 03-10-10					
Sheet Number: C-507					

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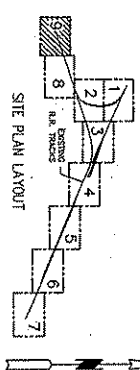
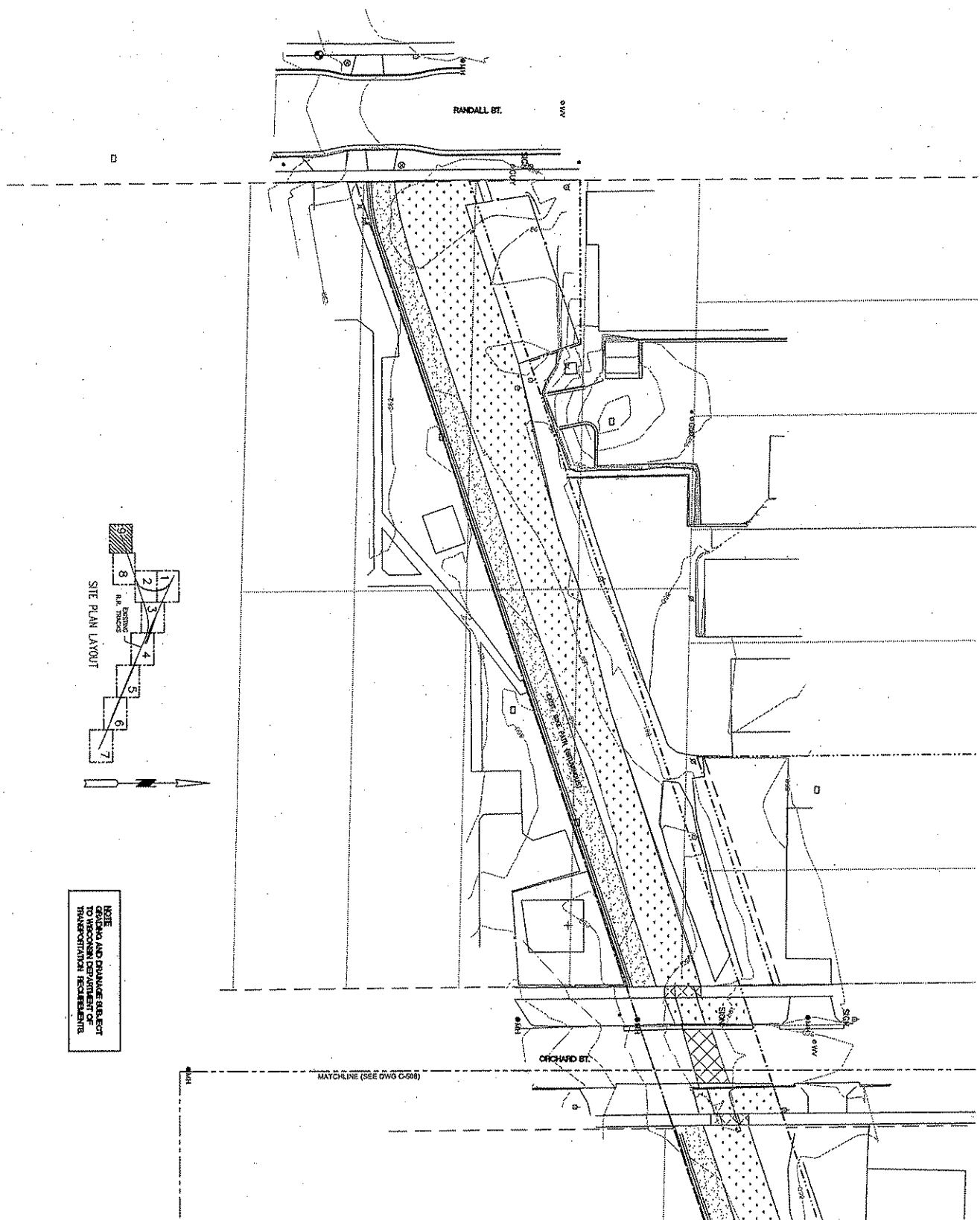


NOTE:  
 GRADING AND DRAINAGE ARE SET  
 TO MAINTAIN EXISTING OR  
 TRANSPORTATION REQUIREMENTS.


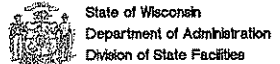

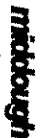
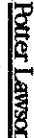
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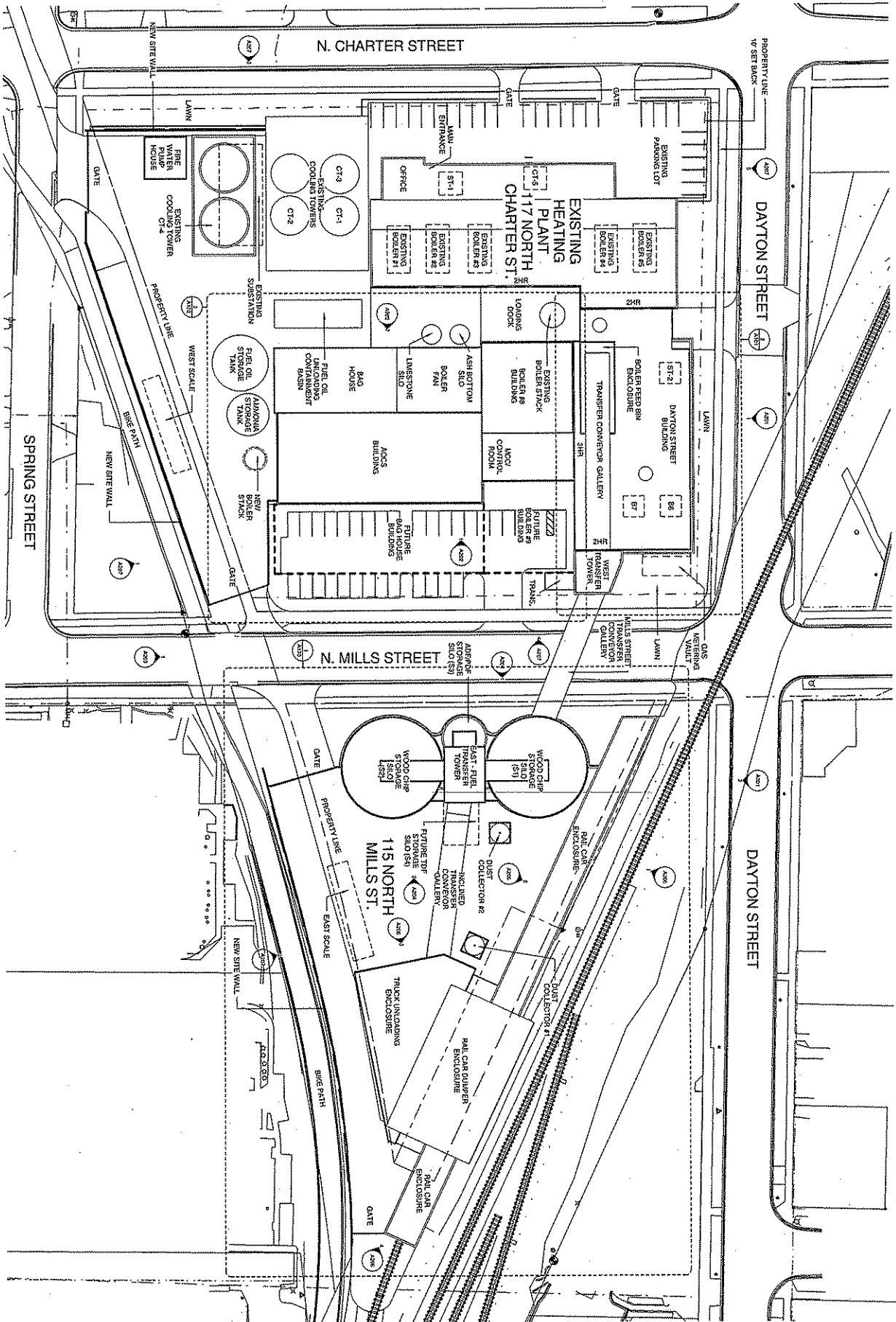




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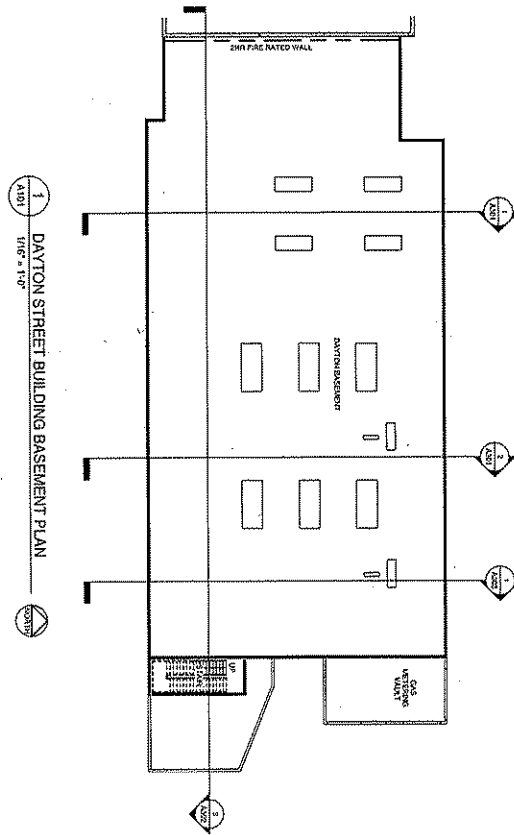
			
			
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Date: 03-10-10	Scale: AS SHOWN	Drawing Number: 0914L	Sheet Number: C-509

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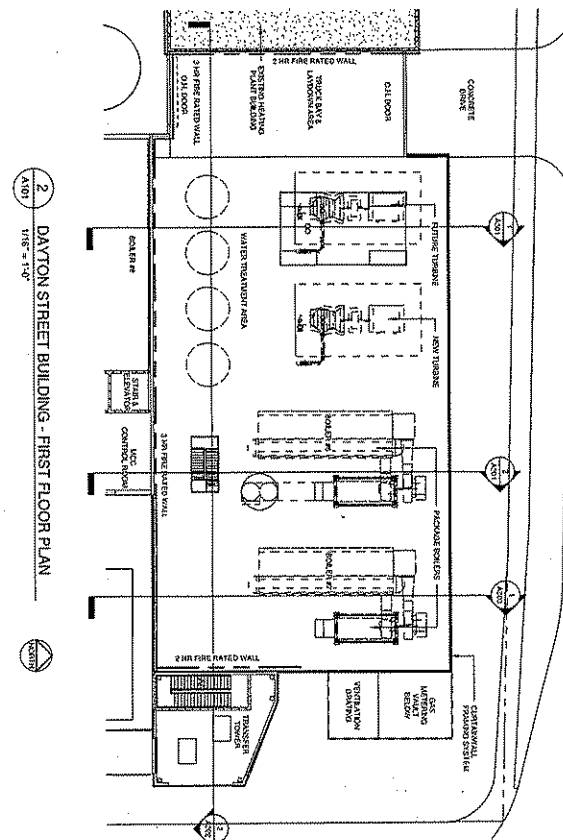


<p>POWER ENGINEERS COLLABORATIVE, LLC 1035 S. KILBUCK ROAD MADISON, WI 53704 WWW.POWERENGINEERS.COM</p>	<p>Pöryr 1035 S. KILBUCK ROAD MADISON, WI 53704 WWW.PORYR.COM</p>	<p>Middleburgh 1035 S. KILBUCK ROAD MADISON, WI 53704 WWW.MIDDLEBURGH.COM</p>	<p>Peter Lawson 1035 S. KILBUCK ROAD MADISON, WI 53704 WWW.PETERLAWSON.COM</p>	<p>State of Wisconsin Department of Administration Division of State Facilities</p>
				<p>Agency: UNIVERSITY OF WISCONSIN SYSTEM</p>
<p>Project Title: <b>CHARTER STREET HEATING PLANT REBUILD</b></p>				
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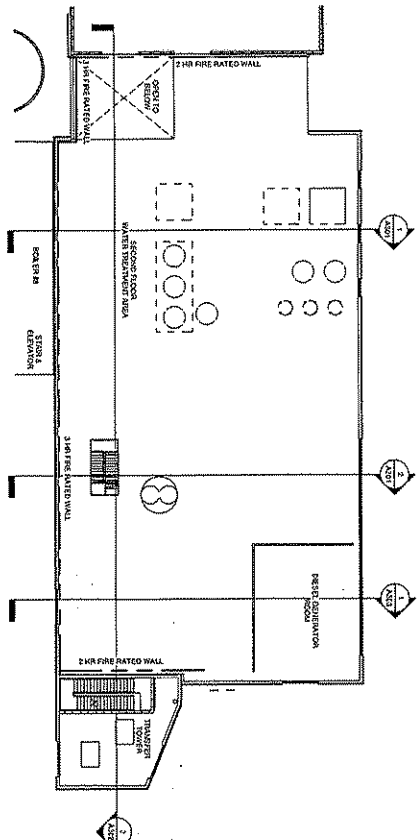
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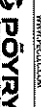


1  
A101  
DAYTON STREET BUILDING BASEMENT PLAN  
1/8" = 1'-0"



2  
A101  
DAYTON STREET BUILDING - FIRST FLOOR PLAN  
1/8" = 1'-0"

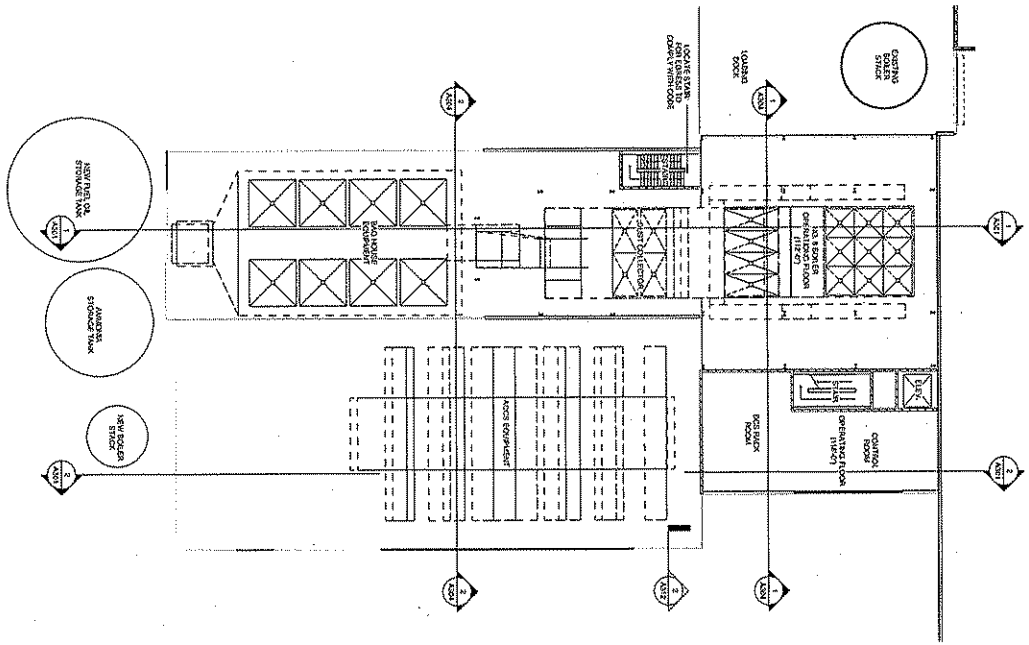


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A101  
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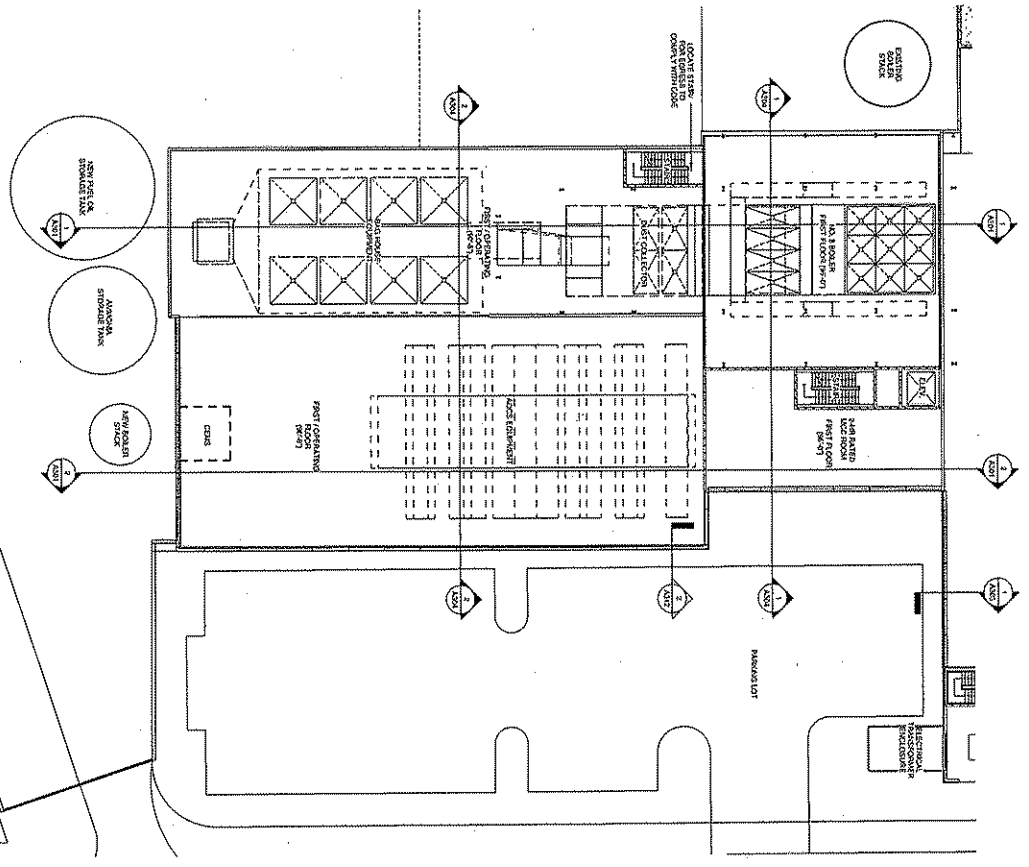
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State of Wisconsin Department of Administration Division of State Facilities				Project Title: <b>CHARTER STREET HEATING PLANT REBUILD</b>		Project Location: MADISON, WI		Sheet Title: GDP FLOOR PLANS - DAYTON STREET BUILDING BASEMENT, FIRST AND OPERATING FLOOR PLANS	
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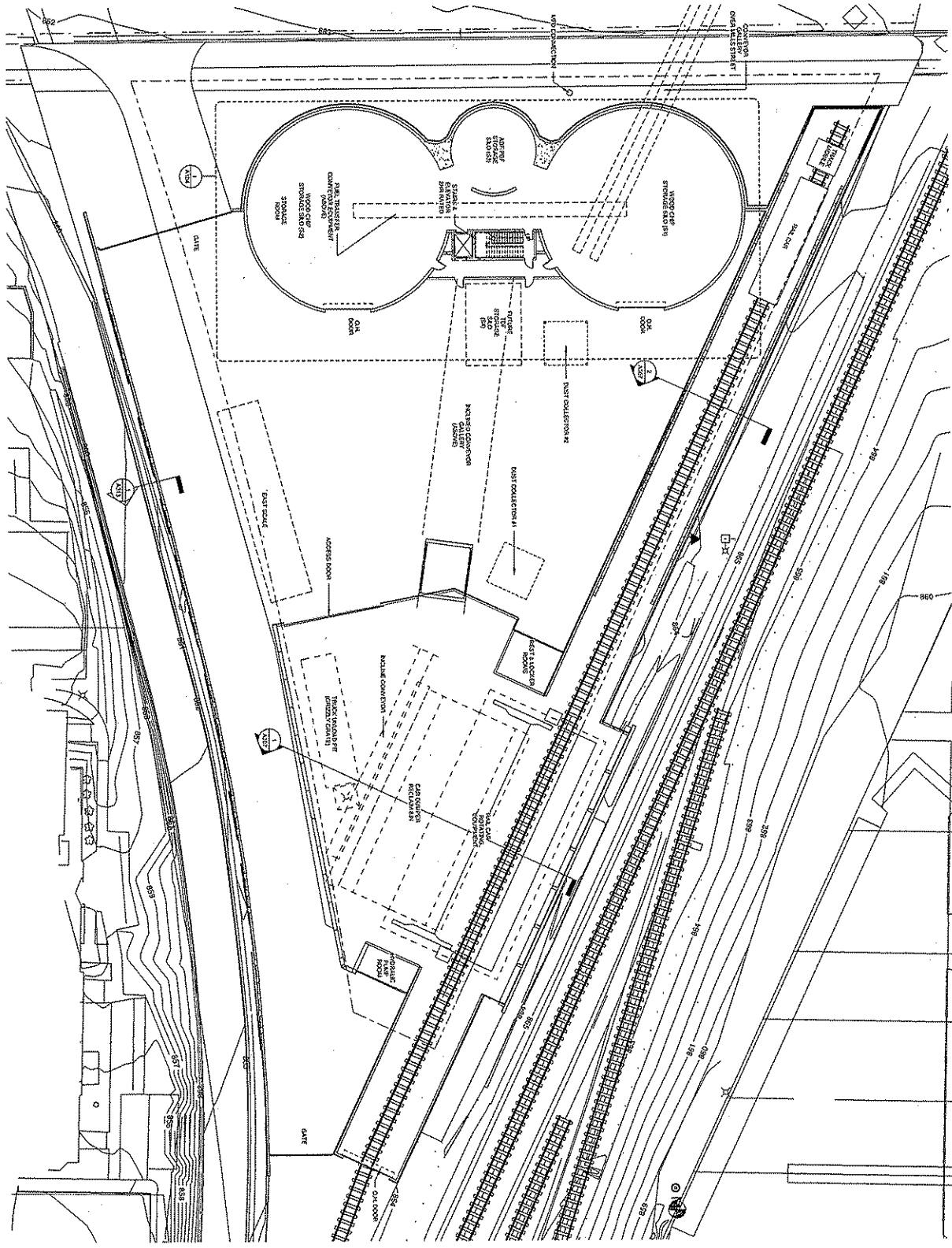
4 BOILER OPERATING FLOOR PLAN  
1/8" = 1'-0"




3 BOILER, BAG HOUSE & SCR BUILDINGS - FIRST FLOOR PLAN  
1/8" = 1'-0"



<p>PEC POWER ENGINEERS COLLABORATIVE LLC 100 EAST WISCONSIN MADISON, WI 53703 WWW.POWERCOLL.COM</p>	<p>PÖYRY midbough Peter Lawson</p>	<p>2008 BY 00</p>	<p>Project Title: <b>CHARTER STREET HEATING PLANT REBUILD</b></p>	<p>State of Wisconsin Department of Administration Division of State Facilities</p>
			<p>Project Location: MADISON, WI</p>	
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1 RAIL SHED HOPPER & FUEL STORAGE - FIRST FLOOR PLAN  
 A103 1/8" = 1'-0"

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NO.	DATE	BY	REVISION																
<table border="1"> <tr> <td>Author</td> <td> </td> </tr> <tr> <td>Checker</td> <td> </td> </tr> <tr> <td>Plotter</td> <td> </td> </tr> <tr> <td>Scale</td> <td> </td> </tr> <tr> <td>Date</td> <td>03-18-10</td> </tr> <tr> <td>Sheet</td> <td>A103</td> </tr> </table>	Author		Checker		Plotter		Scale		Date	03-18-10	Sheet	A103							
Author																			
Checker																			
Plotter																			
Scale																			
Date	03-18-10																		
Sheet	A103																		

**MATERIAL LEGEND:**

**CLASSED STRUCTURAL CONCRETE TYPES**

TYPE 1 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT

TYPE 2 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE

TYPE 3 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS

TYPE 4 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 5 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 6 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 7 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

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TYPE 9 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 10 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 11 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 12 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 13 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 14 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 15 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

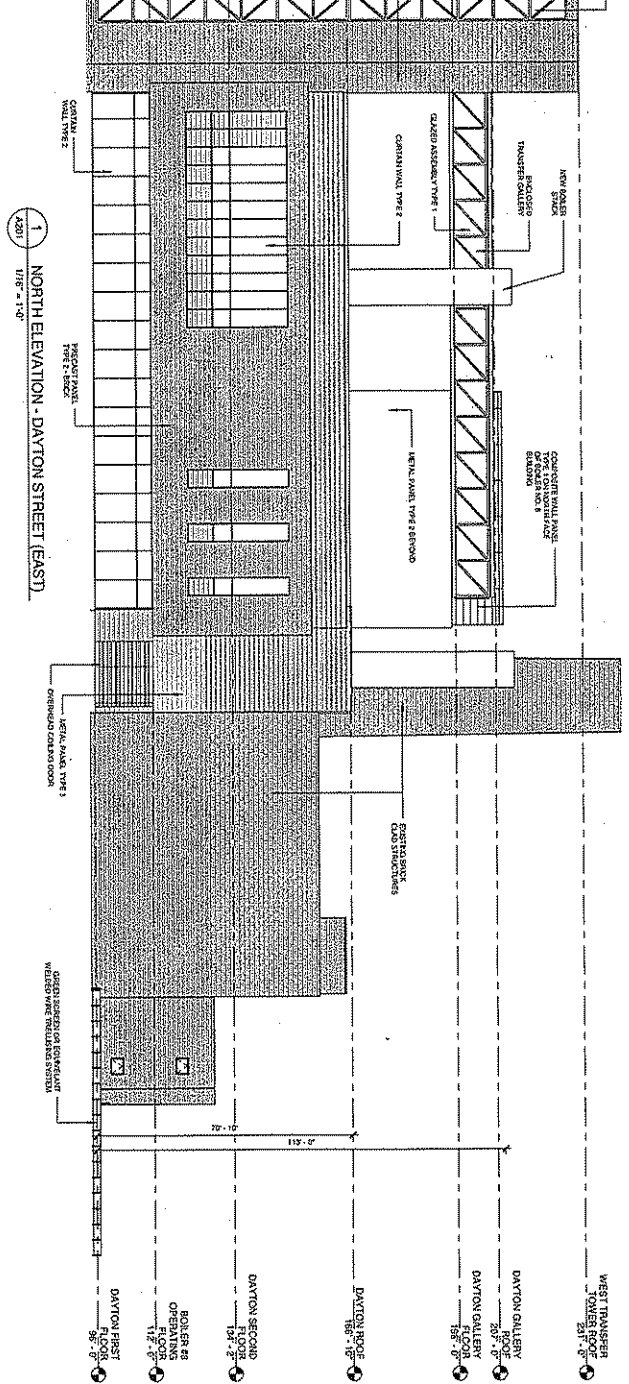
TYPE 16 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 17 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 18 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 19 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS

TYPE 20 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS AND A 3/8" DIA. BARS



**1 NORTH ELEVATION - DAYTON STREET (EAST)**  
 HFS - 11'-0"

WEST TRANSFER WALLS 21'-0"

DAYTON GALLERY ROOF 20'-0"

DAYTON GALLERY 158'-0"

DAYTON ROOF 158'-15"

DAYTON SECOND FLOOR 154'-2"

DAVTON FIRST FLOOR 96'-0"

DAVTON GALLERY 158'-0"

DAYTON GALLERY ROOF 20'-0"

DAYTON GALLERY 20'-0"

DAYTON SECOND FLOOR 154'-2"

DAYTON FIRST FLOOR 96'-0"

**MATERIAL LEGEND:**

**CLASSED STRUCTURAL CONCRETE TYPES**

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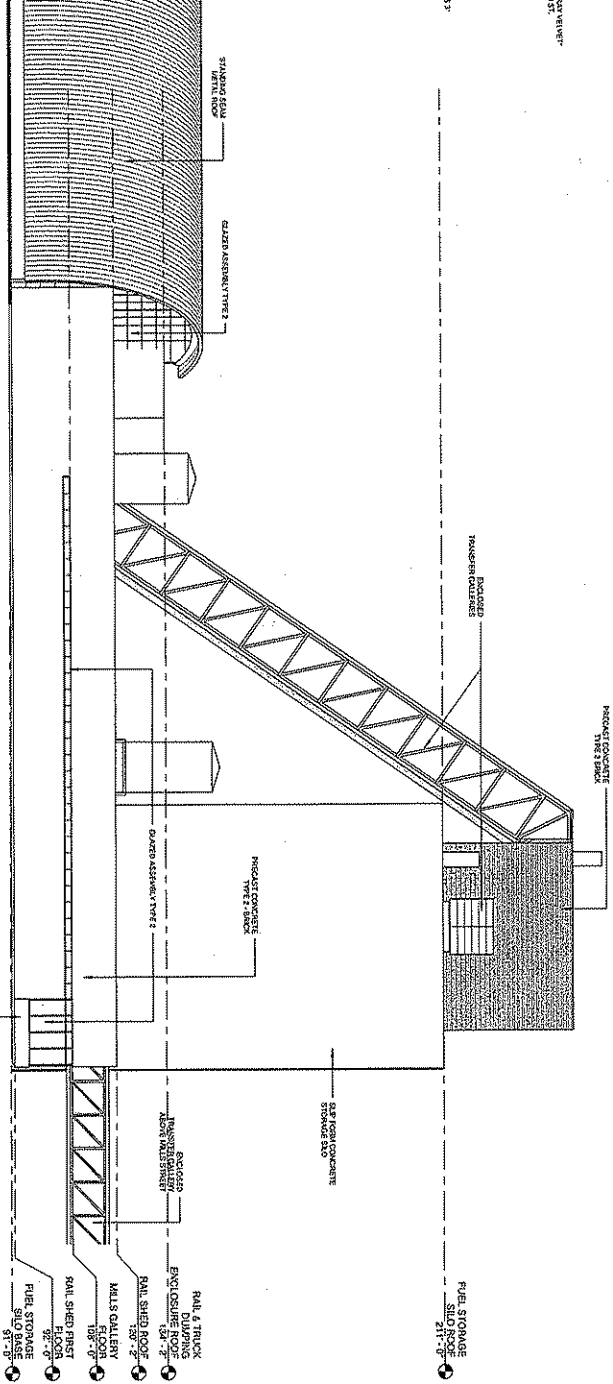
TYPE 16 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS

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TYPE 20 - STRUCTURAL CONCRETE WITH 4% FIBER REINFORCEMENT AND POLYURETHANE WITH A 3/8" DIA. BARS



**2 NORTH ELEVATION - DAYTON STREET (WEST)**  
 HFS - 13'-0"

PROJECT CONCRETE TYPE 2 - BLACK

PROJECT CONCRETE TYPE 3

GLAZED ASSEMBLY TYPE 1

GLAZED ASSEMBLY TYPE 2

GLAZED ASSEMBLY TYPE 3

RAIL & TRUCK ENCLOSURE 154'-7"

RAIL SHED ROOF 154'-7"

RAIL SHED FIRST FLOOR 158'-0"

FUEL STORAGE 151'-5"

RAIL & TRUCK ENCLOSURE 154'-7"

RAIL SHED ROOF 154'-7"

RAIL SHED FIRST FLOOR 158'-0"


FUEL STORAGE 151'-5"

RAIL & TRUCK ENCLOSURE 154'-7"


RAIL SHED ROOF 154'-7"

RAIL SHED FIRST FLOOR 158'-0"

FUEL STORAGE 151'-5"



**PEC**  
 POWER ENGINEERS  
 CONSULTANTS & ARCHITECTS  
 300 N. WISCONSIN  
 MADISON, WI 53703



State of Wisconsin  
 Department of Administration  
 Division of State Facilities

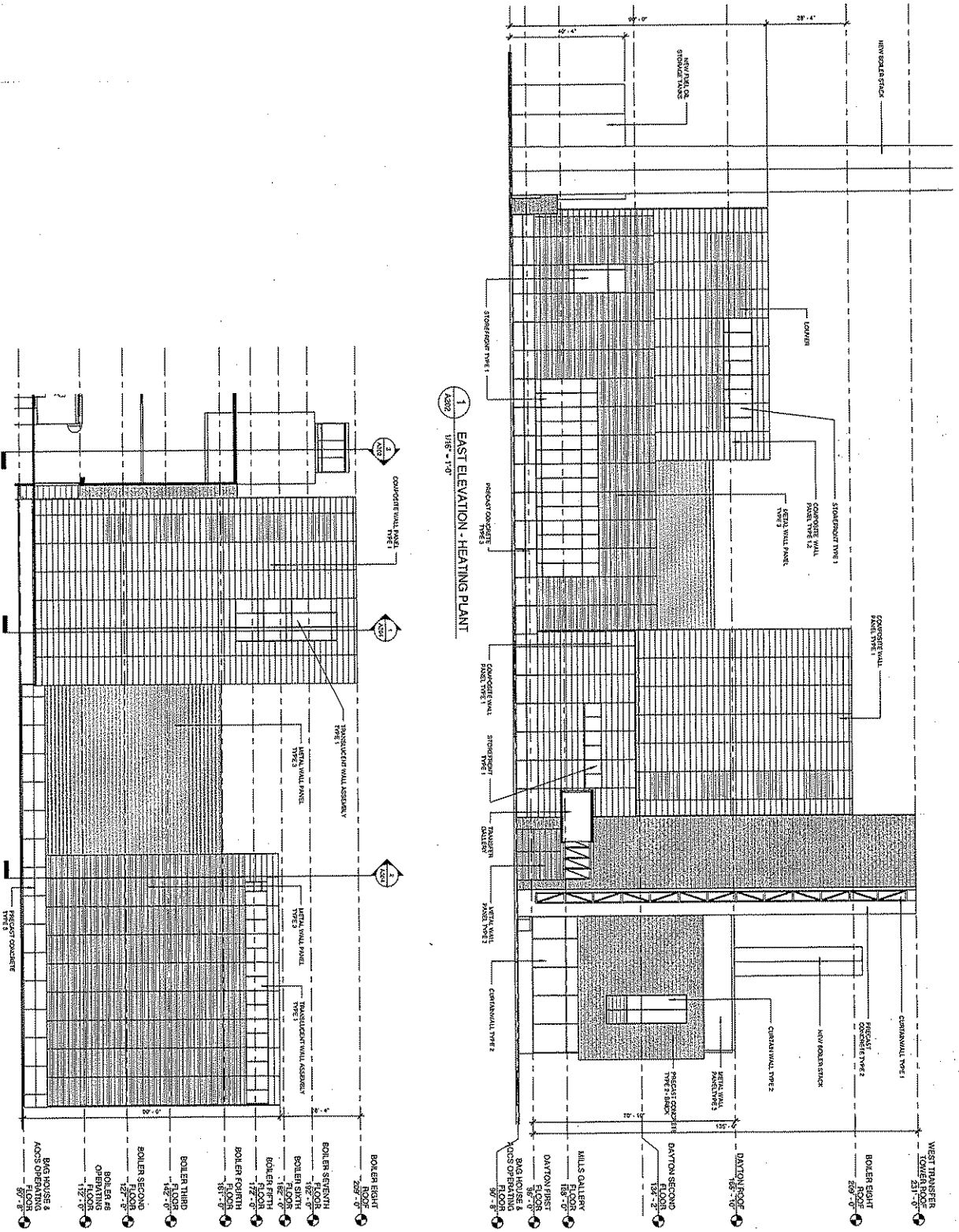
Agency Inclusive:  
 UNIVERSITY OF WISCONSIN SYSTEM

**Charter Street Heating Plant Rebuild**

MADISON, WI




GDP BUILDING ELEVATIONS

Sheet No.	Title	Date	Author	Checker
A201	North Elevation - Dayton Street (West)	03-10-10	PS	DAK

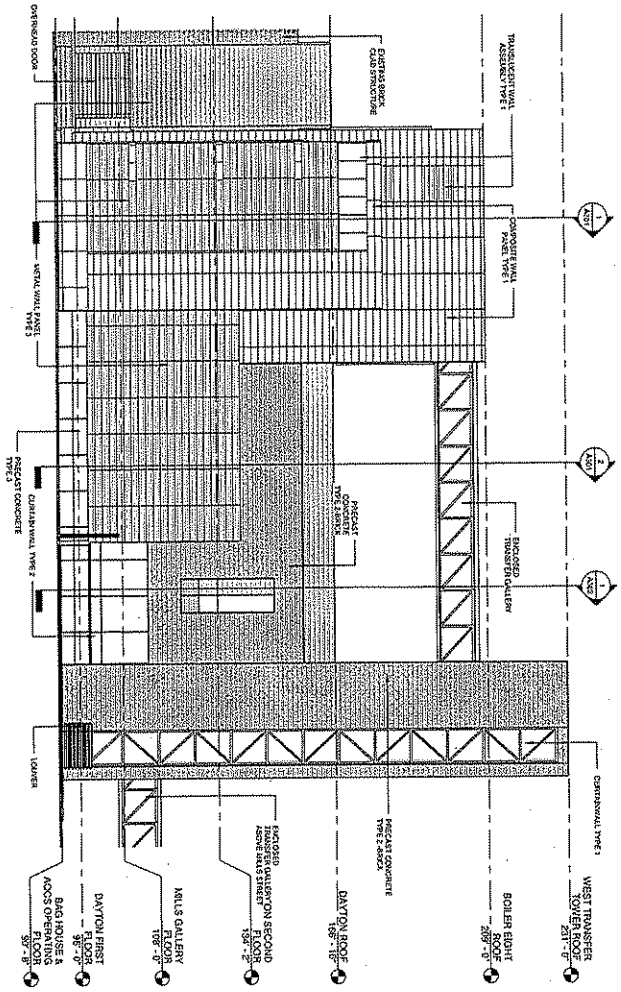




1 EAST ELEVATION - HEATING PLANT  
1/8" = 1'-0"

2 WEST ELEVATION - HEATING PLANT  
1/8" = 1'-0"

 <b>POWER ENGINEERS COLLABORATIVE LLC</b> 1000 W. WISCONSIN AVENUE MILWAUKEE, WI 53233 PHONE: 414.224.1100 FAX: 414.224.1101 WWW.POWERENGINEERS.COM		 <b>Pöryr</b> 1000 W. WISCONSIN AVENUE MILWAUKEE, WI 53233 PHONE: 414.224.1100 FAX: 414.224.1101 WWW.PORYR.COM		 <b>midwagh Potter Lawson</b> 1000 W. WISCONSIN AVENUE MILWAUKEE, WI 53233 PHONE: 414.224.1100 FAX: 414.224.1101 WWW.MIDWAGHPOTTERLAWSON.COM	
<p>State of Wisconsin          Department of Administration          Division of State Facilities</p>					
<p>Project Title: <b>CHARTER STREET HEATING PLANT REBUILD</b></p>					
<p>Project Location: <b>MADISON, WI</b></p>					
<p>Client Title: <b>GDP BUILDING ELEVATIONS</b></p>					
<p>Agency/Institution: <b>UNIVERSITY OF WISCONSIN SYSTEM</b></p>					
<p>Project No: <b>A202</b></p>					
<p>Scale: <b>1/8" = 1'-0"</b></p>					
<p>Date: <b>02-16-10</b></p>					
<p>Drawn By: <b>PR</b></p>					
<p>Checked By: <b>BSJAL</b></p>					
<p>Project No: <b>A202</b></p>					
<p>Sheet No: <b>A202</b></p>					

**1** SOUTH ELEVATION - HEATING PLANT  
1/8" = 1'-0"



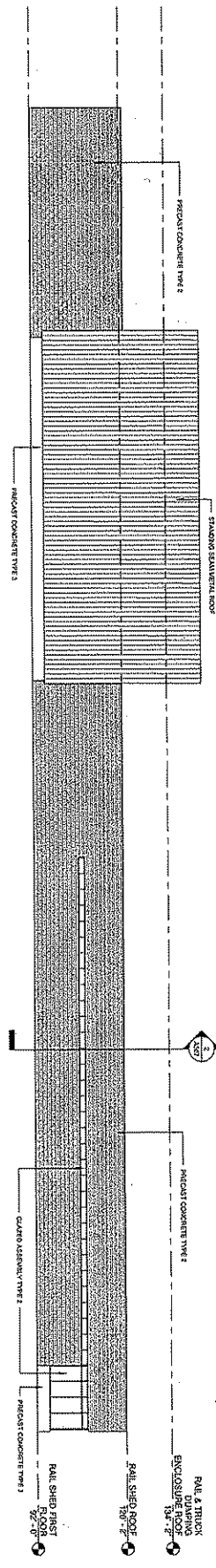
 <p><b>PEC</b> POWER ENGINEERS CONSULTANTS 150 South State Street Madison, WI 53703 WWW.PECWISCONSIN.COM</p>		 <p><b>Pöry Middelburg Pollet Lawson</b></p>		<p>State of Wisconsin Department of Administration Division of State Facilities</p>	
<p>Project Title: <b>CHARTER STREET HEATING PLANT REBUILD</b></p>		<p>Project Location: MADISON, WI</p>		<p>Agency / Institution: UNIVERSITY OF WISCONSIN SYSTEM</p>	
<p>Sheet Title: GDP BUILDING ELEVATIONS</p>		<p>Project No.: 2009.07.00</p>		<p>Scale: 1/8" = 1'-0"</p>	
<p>Author: GHAL</p>		<p>Check: GHAL</p>		<p>Date: 03-18-10</p>	
<p>Drawn: GHAL</p>		<p>Reviewed: GHAL</p>		<p>Project No.: 2009.07.00</p>	
<p>Scale: 1/8" = 1'-0"</p>		<p>Sheet No.: A203</p>		<p>Total Sheets: 1</p>	

5

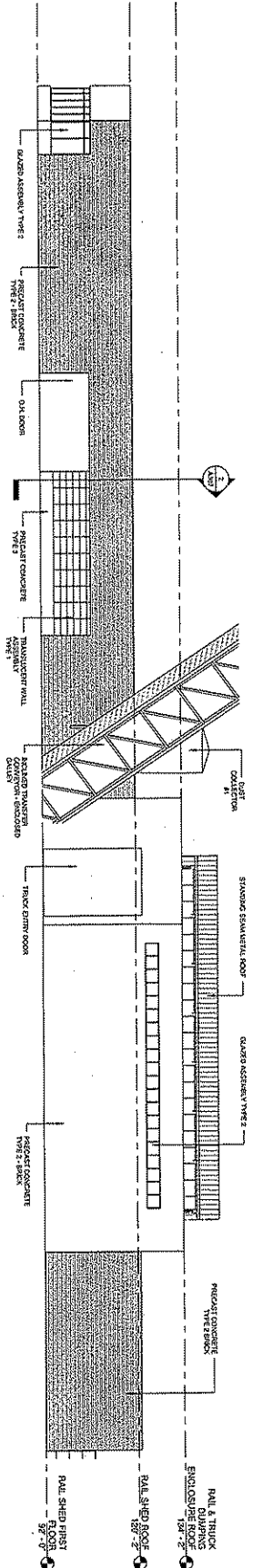




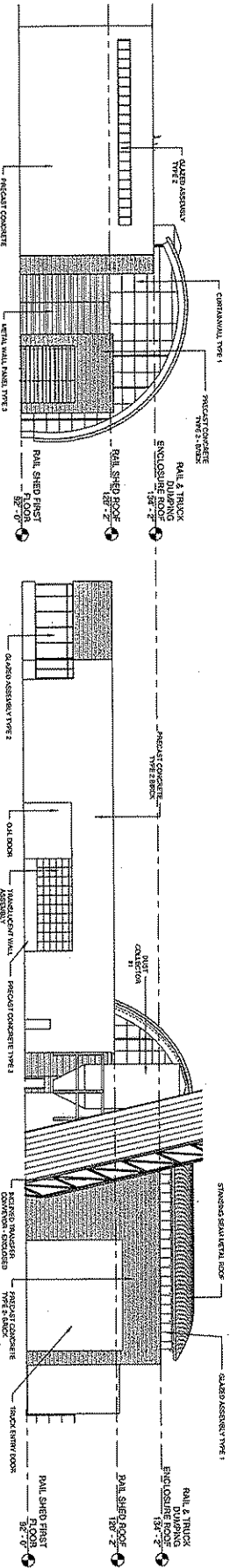




1 RAIL SHED & HOPPER - NORTH ELEVATION  
 1/8" = 1'-0"  
 A206





2 RAIL SHED & HOPPER SOUTH ELEVATION  
 1/8" = 1'-0"  
 A206

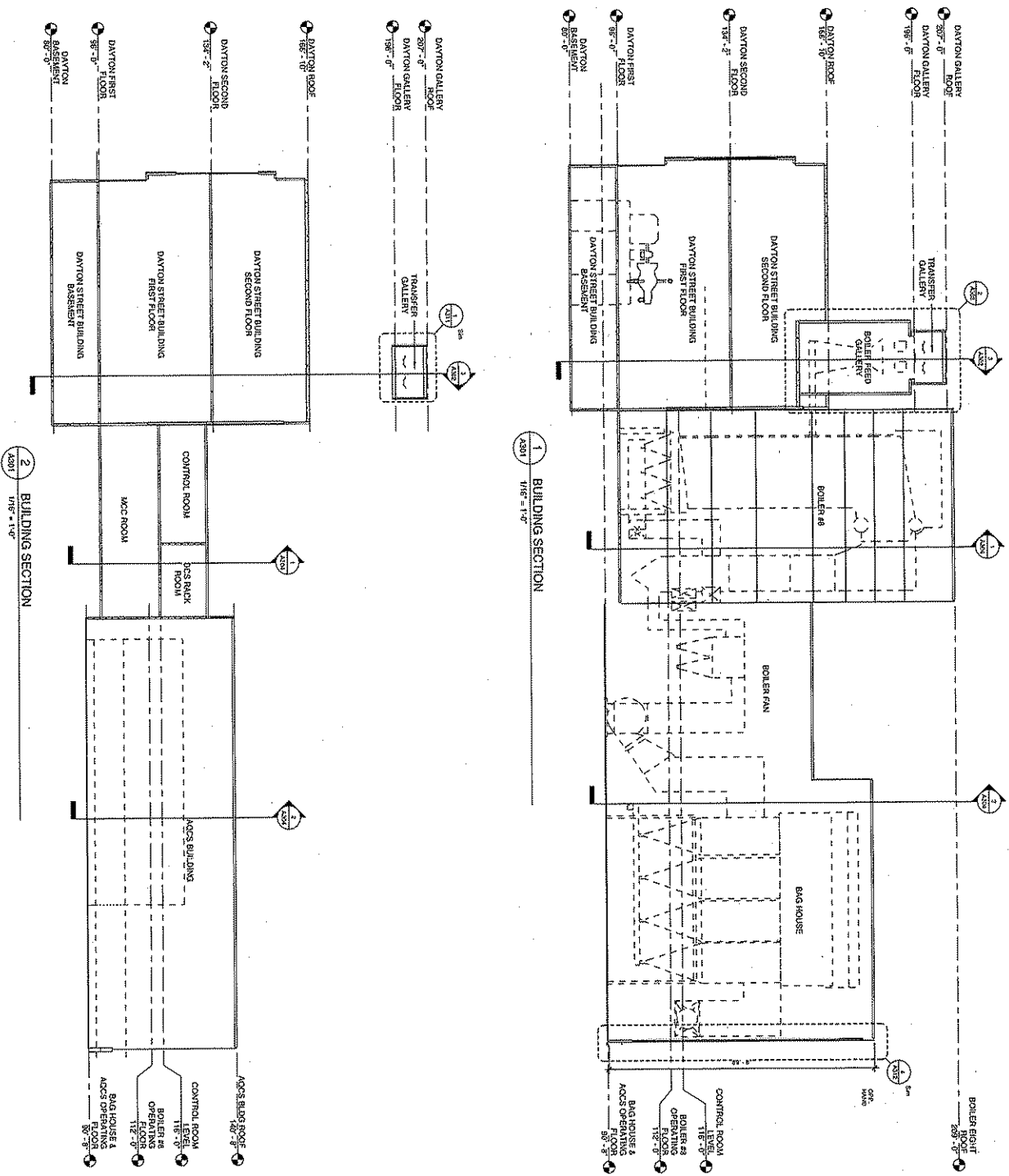






3 RAIL SHED WEST ELEVATION  
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 A206

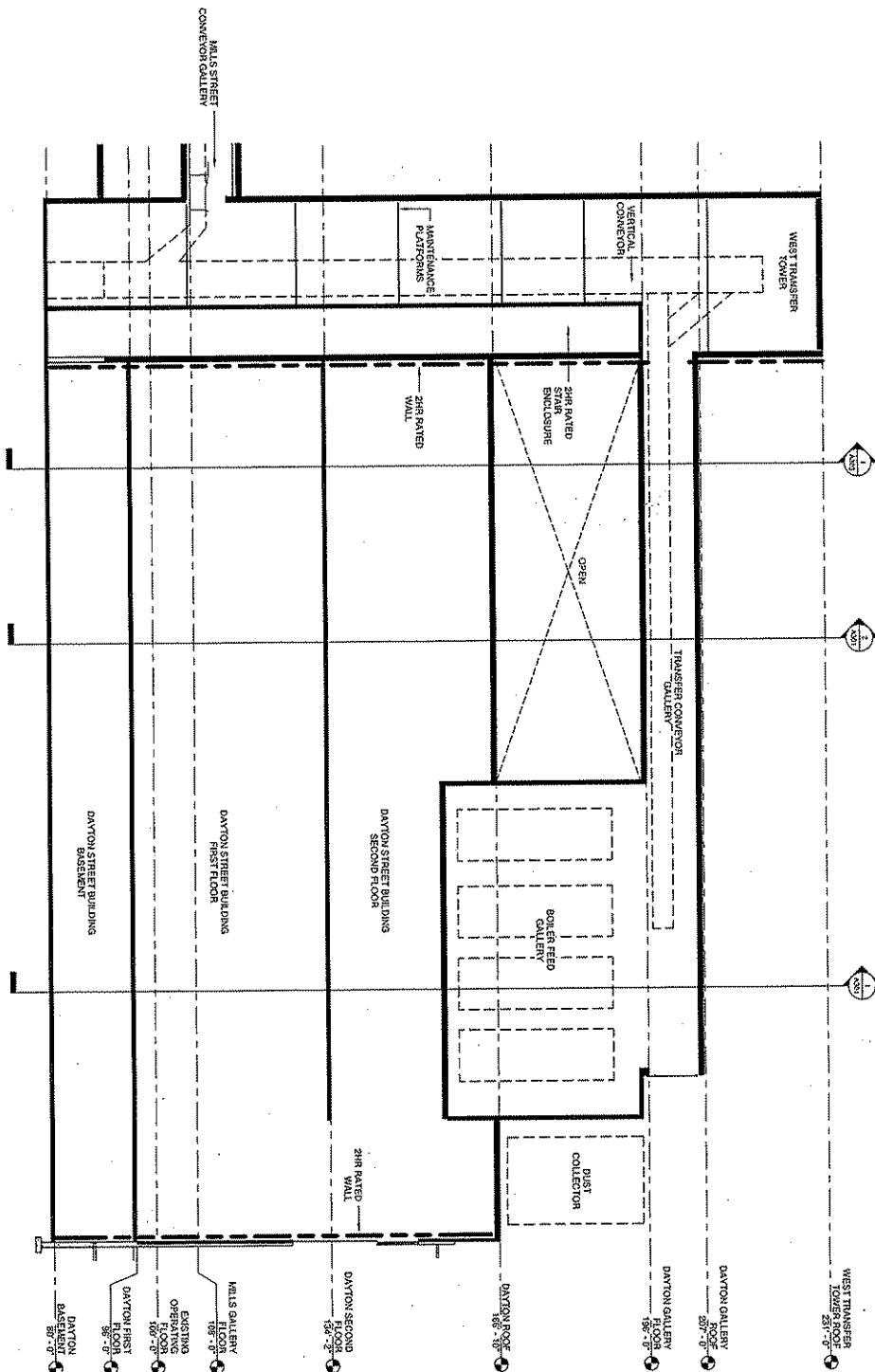
4 RAIL SHED - EAST ELEVATION  
 1/8" = 1'-0"  
 A206

 <b>POWER ENGINEERS &amp; CONTRACTORS</b> 1000 W. WISCONSIN AVENUE MADISON, WI 53703 WWW.POWERENGINEERS.COM		 <b>Pöry Midway</b> 2009.07.03		State of Wisconsin Department of Administration Division of State Facilities  Agency: UNIVERSITY OF WISCONSIN SYSTEM	
<b>CHARTER STREET HEATING PLANT REBUILD</b> Project Location: MADISON, WI Sheet Title: GDP BUILDING ELEVATIONS					
No.   Date   Rev.   Description	Project Name: CHARTER STREET HEATING PLANT REBUILD Project Location: MADISON, WI Sheet Title: GDP BUILDING ELEVATIONS				
Owner: State of Wisconsin Architect: Pöry Midway Designer: Pöry Midway Date: 02-10-10 Scale: P/R Sheet Number: A206					





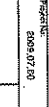
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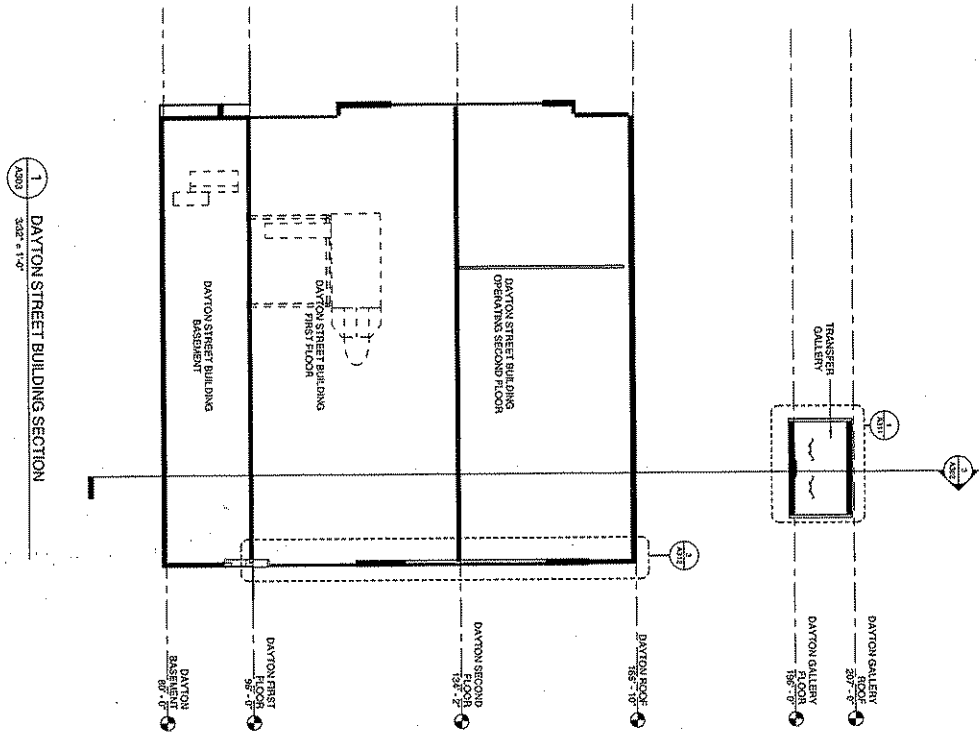
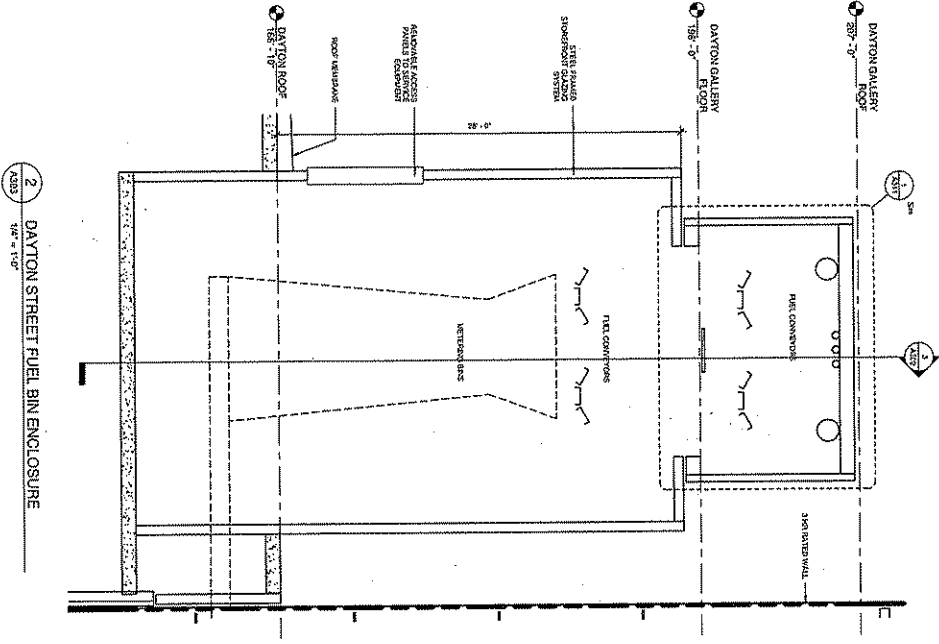





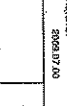
								POWER ENGINEERS CONSULTANTS 150 West State Street Milwaukee, WI 53233 WWW.POWERENGINEERS.COM	
State of Wisconsin Department of Administration Division of State Facilities		UNIVERSITY OF WISCONSIN SYSTEM		Project Title: <b>CHARTER STREET HEATING                  PLANT REBUILD</b>		Project Location: MADISON, WI		Agency Address: UNIVERSITY OF WISCONSIN SYSTEM	
Project No.: 03-10-18		Sheet Title: GCP BUILDING SECTIONS		Revision:		Date:		Scale:	
Drawing No.: <b>A301</b>		Date:		Scale:		Author:		Checker:	



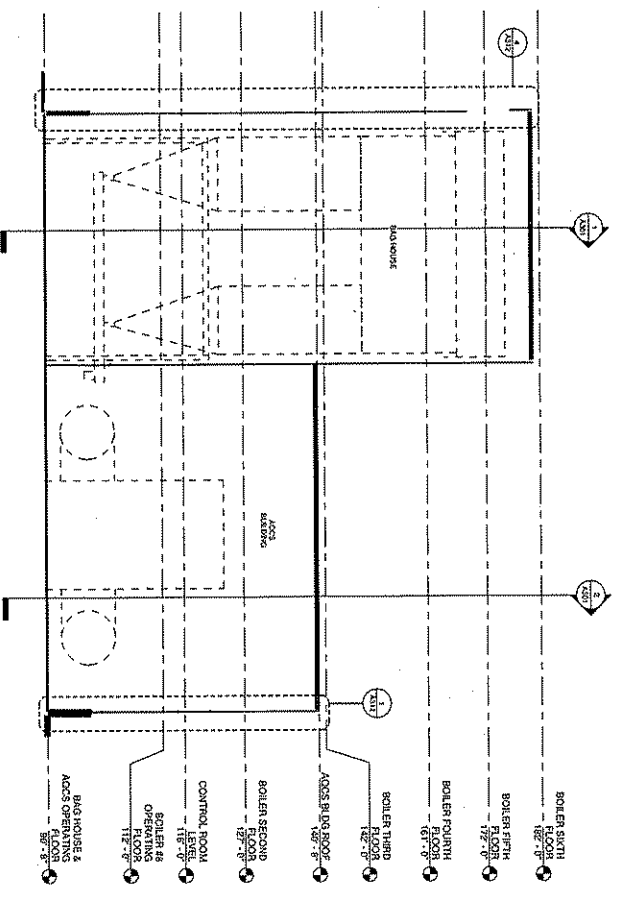
3 DAYTON STREET BUILDING SECTION  
 3/22/10

									
<p>State of Wisconsin                  Department of Administration                  Division of State Facilities</p>									
<p><b>CHARTER STREET HEATING PLANT REBUILD</b></p>					<p>Project Location:                  MADISON, WI</p>				
<p>Project Title:                  GDP BUILDING SECTIONS</p>					<p>Agency/Division:                  UNIVERSITY OF WISCONSIN SYSTEM</p>				
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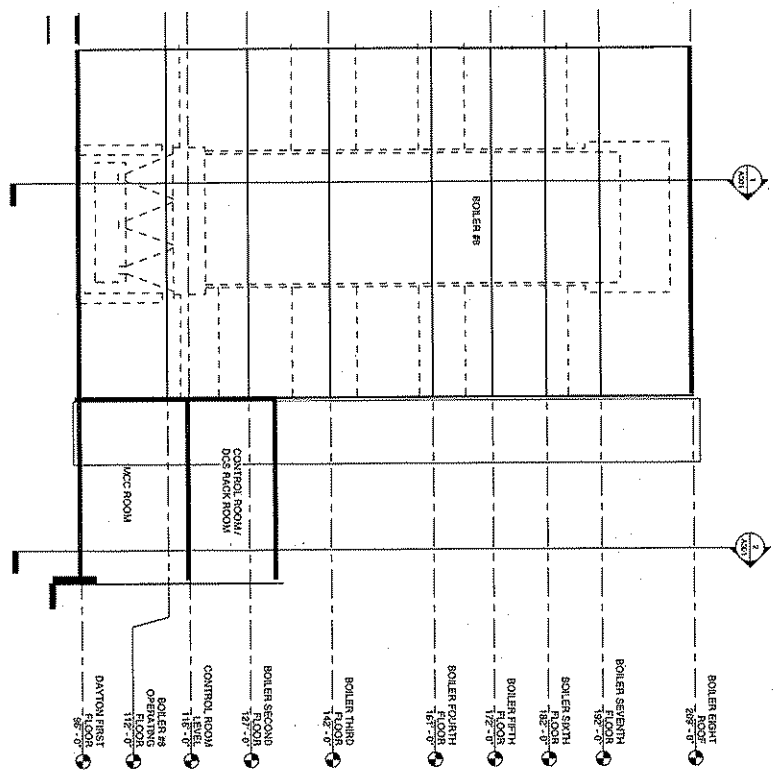






 <p>POWER ENGINEERS CONSULTANTS AND ARCHITECTS 1325 WYOMING STREET MADISON, WI 53706 WWW.POWERENGINEERS.COM</p>		 <p><b>Pöyry</b></p>		 <p><b>Midtough</b></p>		 <p><b>Pollet Lawson</b></p>	
<p>Project Title: <b>CHARTER STREET HEATING PLANT REBUILD</b></p> <p>Project Location: <b>MADISON, WI</b></p> <p>Drawn Text: <b>GDP BUILDING SECTIONS</b></p>		<p>State of Wisconsin Department of Administration Division of State Facilities</p>		<p>Agency/Institution: <b>UNIVERSITY OF WISCONSIN SYSTEM</b></p>		<p>Project No.: <b>2008.07.00</b></p>	
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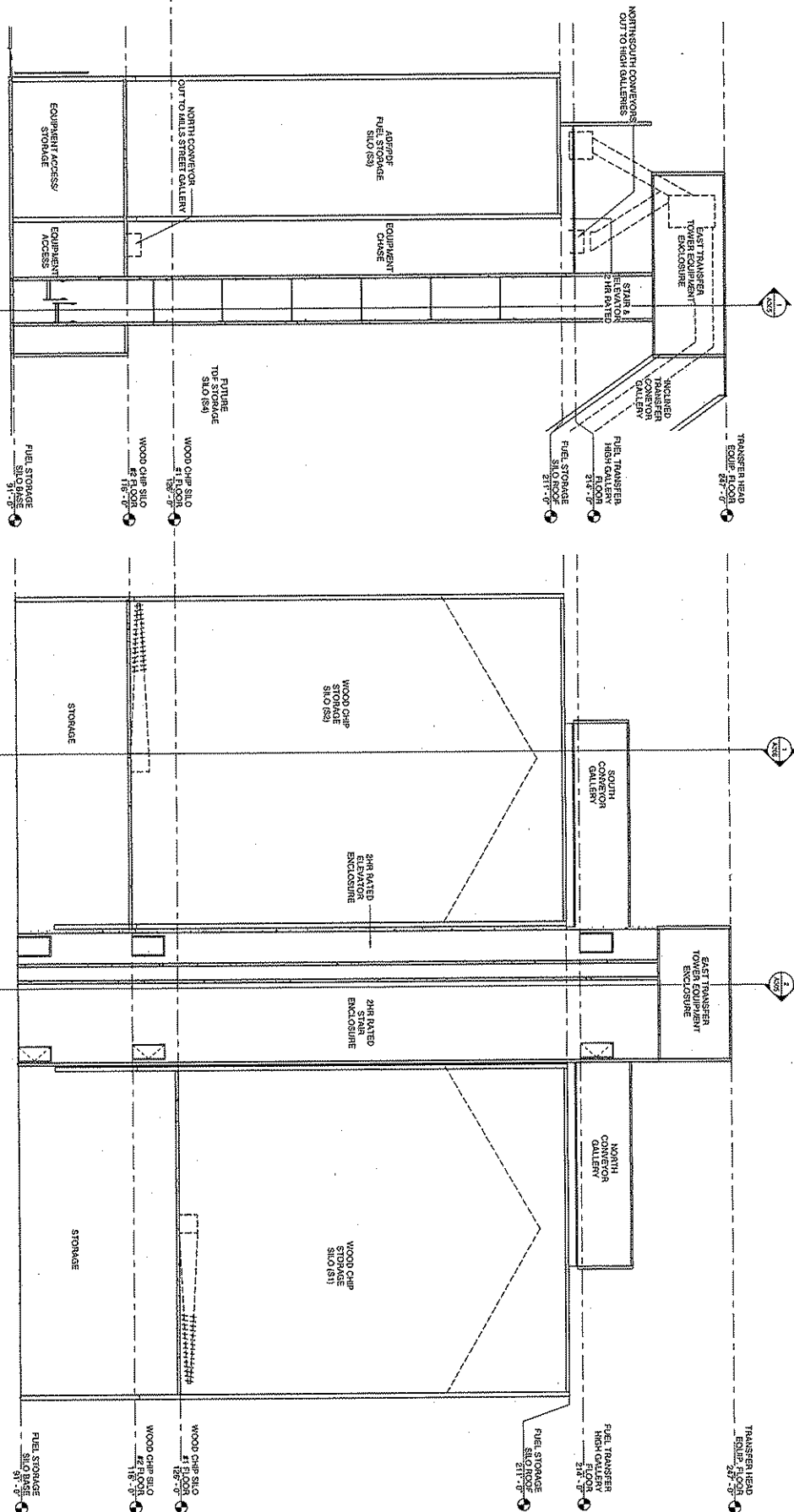
2 BAG HOUSE, AIR POLLUTION CONTROL BUILDING SECTION  
ASB4  
3/27' = 1"=0'



1 BOILER NO. SIX / CONTROL ROOM SECTION  
ASB4  
3/27' = 1"=0'



						POWER ENGINEERS COLLABORATIVE LLC 525 N. 10th Street Wausau, WI 54980 WWW.POWERENGINEERS.COM		PROJECT NO.: 2009.07.05	
State of Wisconsin Department of Administration Division of State Facilities				UNIVERSITY OF WISCONSIN SYSTEM		CHARTER STREET HEATING PLANT REBUILD		Project Title:	
MADISON, WI		Project Location:		GDP BUILDING SECTIONS		Sheet Title:		Project No.:	
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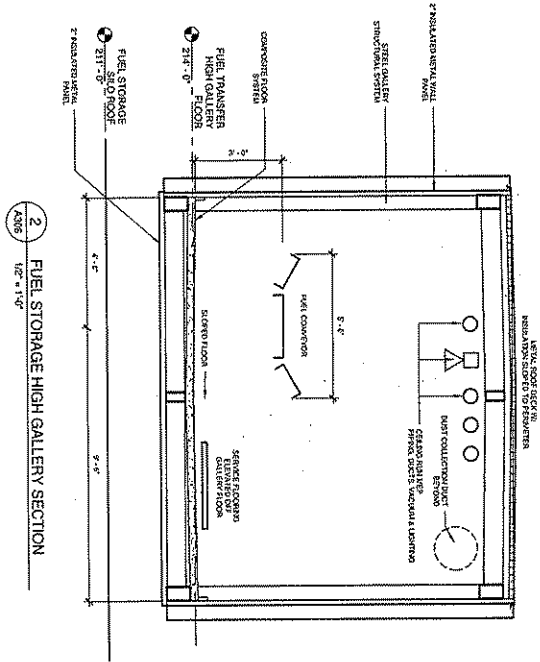


2 FUEL STORAGE SILO SECTION  
3/8" = 1'-0"

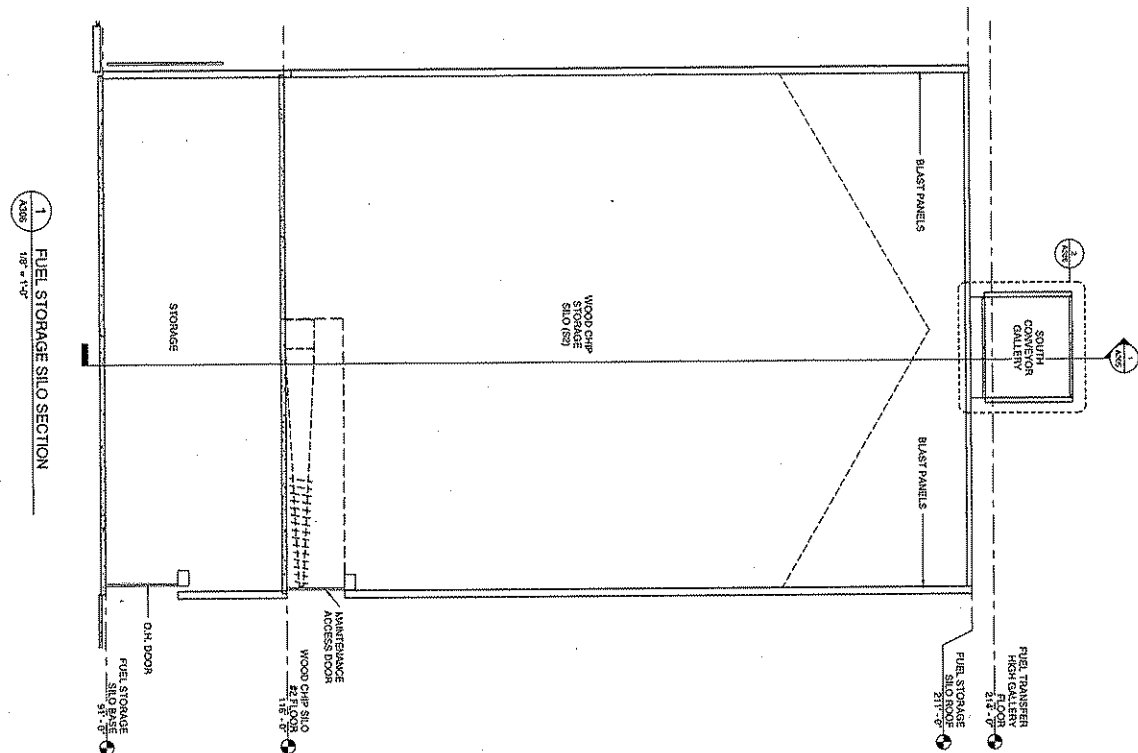
1 FUEL STORAGE SILOS SECTION  
3/8" = 1'-0"

		<b>POWER ENGINEERS</b> CONSULTANTS 152 SOUTH STATE STREET MADISON, WI 53703 (608) 258-2222 WWW.POWERENGINEERS.COM				<b>midday</b> POWER ENGINEERS 152 SOUTH STATE STREET MADISON, WI 53703 (608) 258-2222 WWW.MIDDAYPOWER.COM				PROJECT NO: 2009.07.00	
<b>State of Wisconsin</b> Department of Administration Division of State Facilities				AGENCY: UNIVERSITY OF WISCONSIN SYSTEM				PROJECT: CHARTER STREET HEATING PLANT REBUILD			
PROJECT LOCATION: MADISON, WI				SHEET TITLE: GDP BUILDING SECTIONS				DATE: 03-16-10			
DESIGNER: A305				CHECKER: A305				DATE: 03-16-10			







2 FUEL STORAGE HIGH GALLERY SECTION  
1/8\"/>

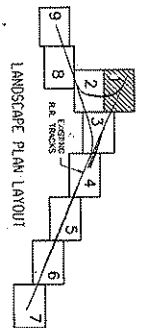
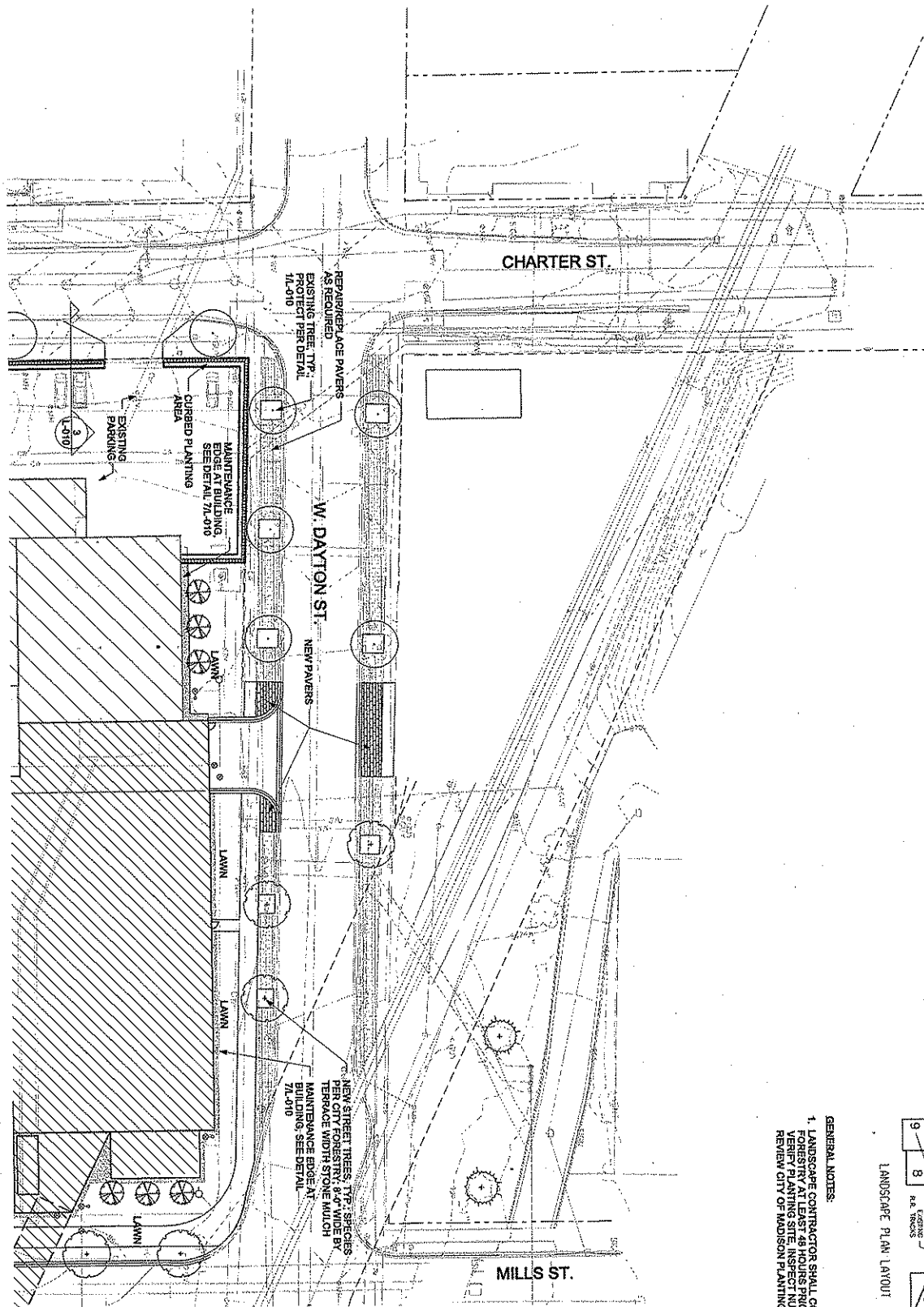


1 FUEL STORAGE SILO SECTION  
1/8\"/>

 <b>POWER ENGINEERS &amp; CONSULTANTS, INC.</b> 1000 UNIVERSITY AVENUE MADISON, WI 53706 WWW.POWERENGINEERS.COM		 <b>BÖRY Midway Power Lawton</b>		PROJECT NUMBER: 2009-07-00	
Project Title: <b>CHARTER STREET HEATING PLANT REBUILD</b>		State of Wisconsin Department of Administration Division of State Facilities		Agency/Institution: UNIVERSITY OF WISCONSIN SYSTEM	
Project Location: MADISON, WI		Sheet Title: GDP BUILDING SECTIONS		Date: 02-16-10	
Designer: A306		Checker: PER		Scale: ASB	



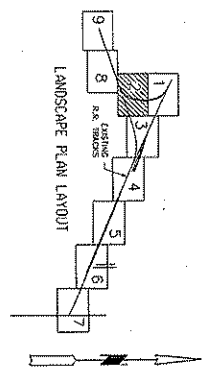




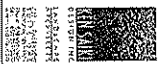
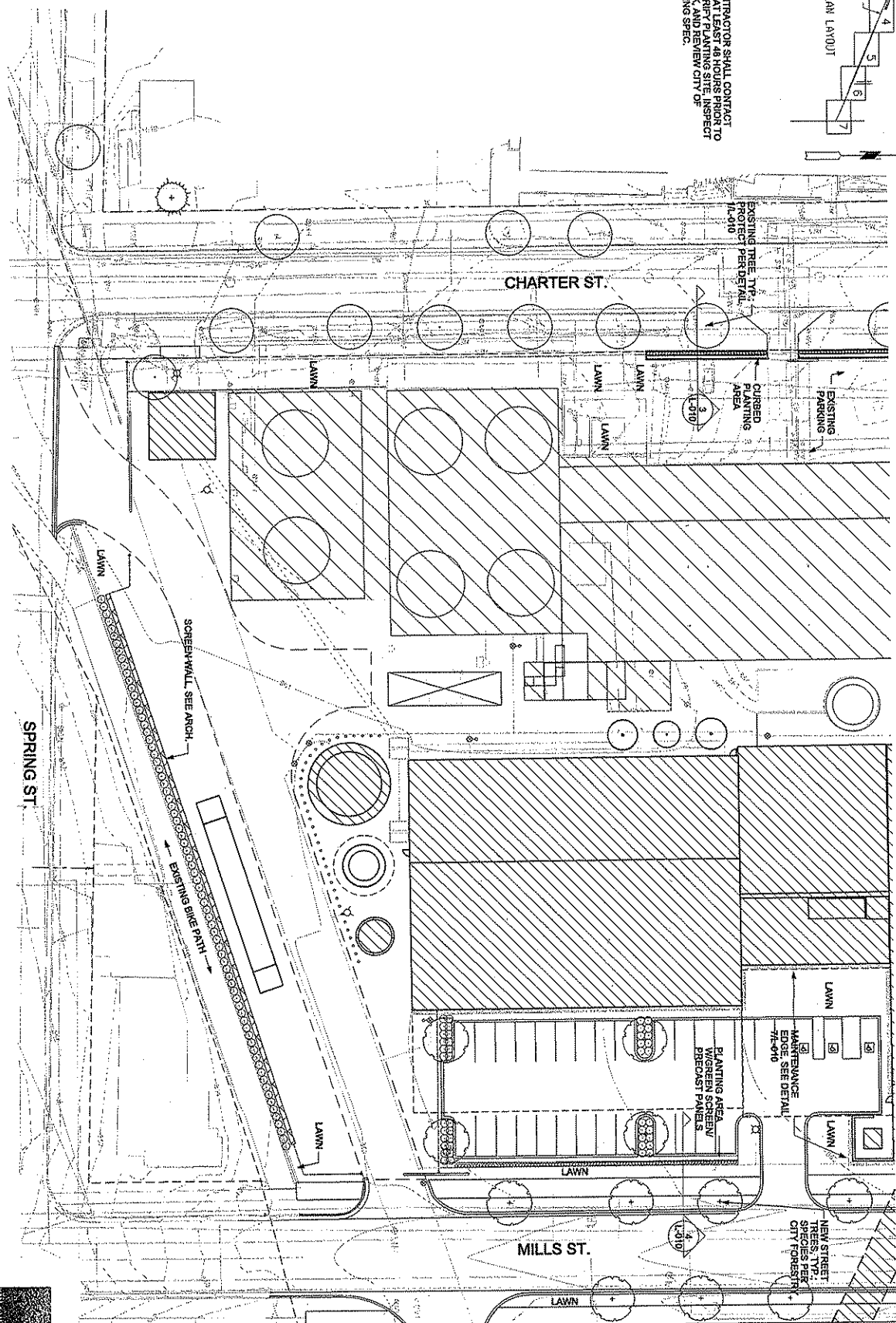
GENERAL NOTES:  
 1. LANDSCAPE CONTRACTOR SHALL CONTACT CITY FORESTRY AT LEAST 48 HOURS PRIOR TO PLANTING TO REVIEW ANY AND ALL LANDSCAPE PLANTING SPEC. RETURN CITY OF MADISON PLANTING SPEC.



POWERS ENGINEERS COLLABORATIVE LLC 150 SOUTH STATE STREET MADISON, WISCONSIN 53703 TEL: 608.261.1234 WWW.POWERSENGINEERS.COM		POYRY 150 SOUTH STATE STREET MADISON, WISCONSIN 53703 TEL: 608.261.1234 WWW.POYRY.COM		MIDDOUGH 150 SOUTH STATE STREET MADISON, WISCONSIN 53703 TEL: 608.261.1234 WWW.MIDDOUGH.COM		POTER LAWSON 150 SOUTH STATE STREET MADISON, WISCONSIN 53703 TEL: 608.261.1234 WWW.POTERLAWSON.COM	
Project Title: <b>CHARTER STREET REBUILD</b>				State of Wisconsin Department of Administration Division of State Facilities			
Project Location: <b>MADISON, WI.</b>				Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON			
Sheet Title: <b>GDP LANDSCAPE PLAN</b>				Sheet Number: <b>L-001</b>			
Revision:		Date:		By:		Check:	
1.		03-10-10		PR		03-10-10	
09241		03-10-10		PR		03-10-10	



GENERAL NOTES:  
 1. LANDSCAPE CONTRACTOR SHALL CONTACT CITY FORESTRY AT LEAST 48 HOURS PRIOR TO PLANTING TO VERIFY PLANTING SITE, INSPECT NURSERY STOCK, AND REVIEW CITY OF MADISON PLANTING SPEC.



Scale	1" = 10'
Graphic Scale	0' 10' 20' 30'
Code	03-10-10
Sheet	L-002

Project File:  
**CHARTER STREET REBUILD**

Project Location:  
**MADISON, WI.**

Sheet Title:  
**GDP LANDSCAPE PLAN**



State of Wisconsin  
 Department of Administration  
 Division of State Facilities

Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON

**PEC**

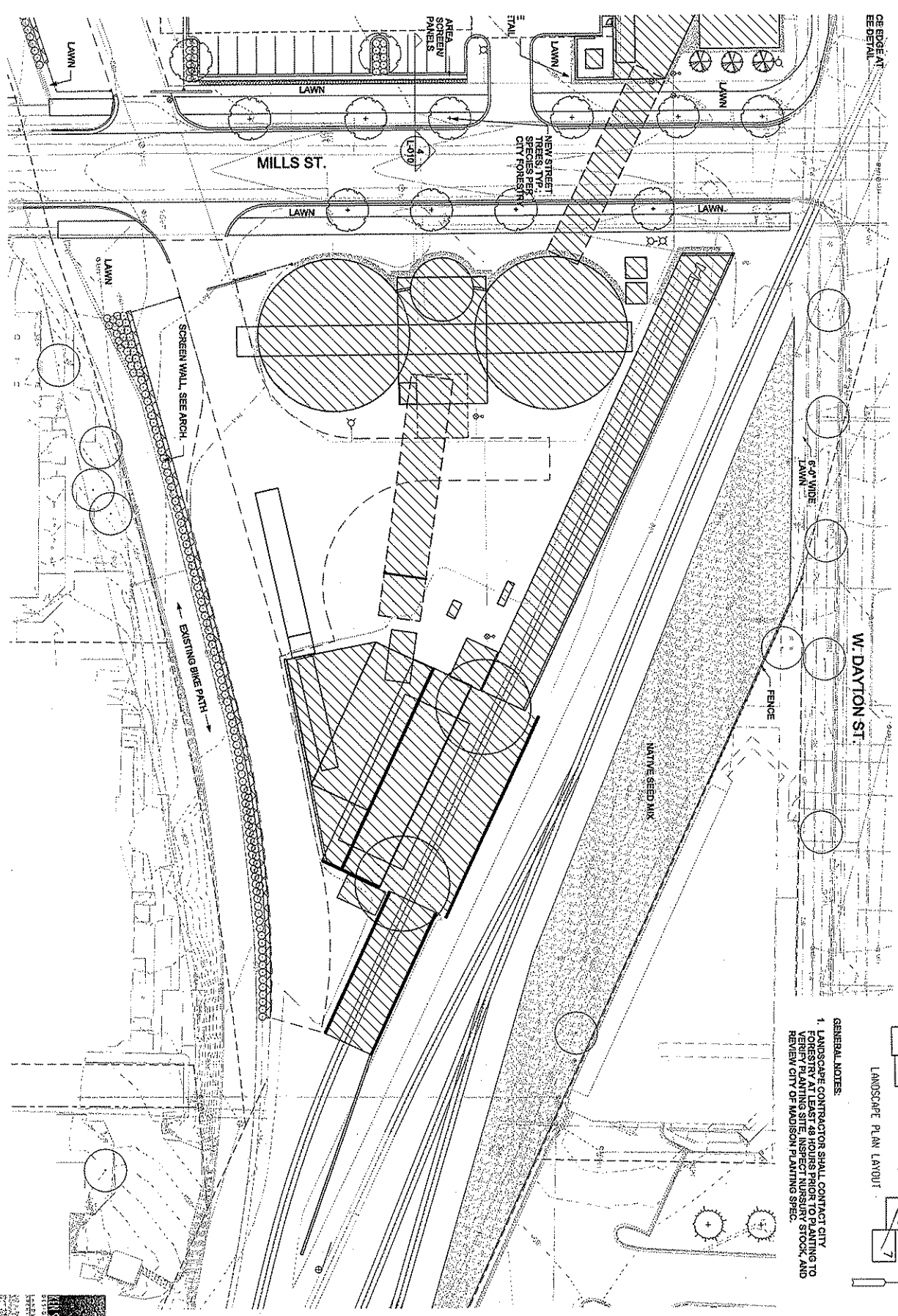
POYRY ENGINEERS  
 CONSULTANTS LLC  
 150 SOUTH STATE STREET  
 SUITE 2000  
 MADISON, WISCONSIN 53703  
 (608) 263-8800  
 WWW.POYRY.COM

**POYRY**

**midwagh**

**Daniel Lawson**

5

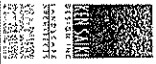
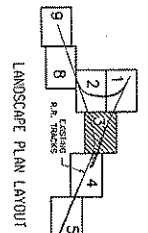


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E E DETAIL

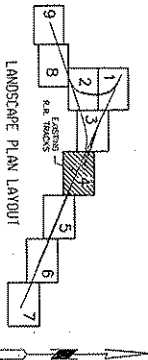
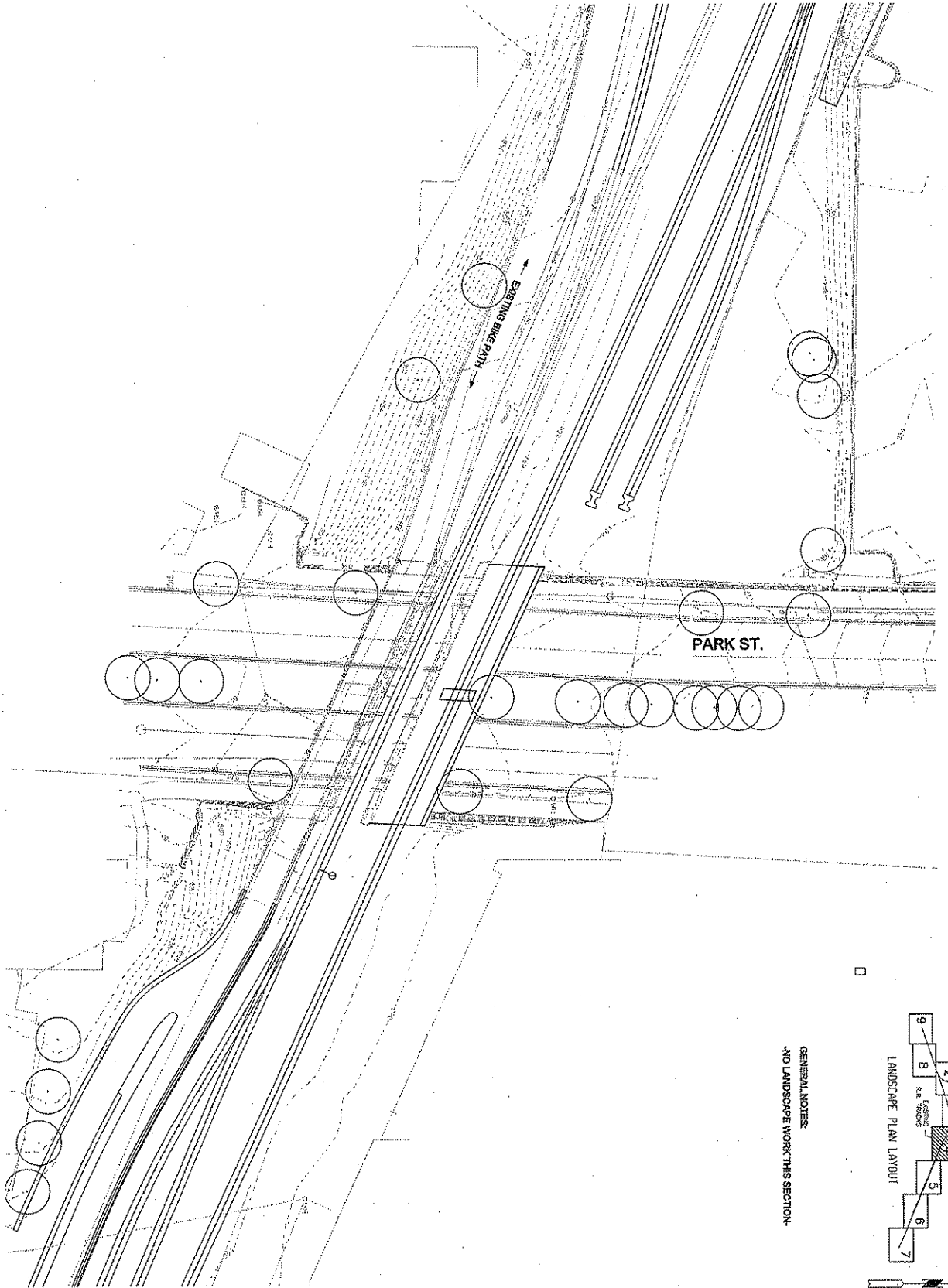
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MILLS ST.

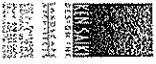
GENERAL NOTES:  
1. LANDSCAPE CONTRACTOR SHALL CONTACT CITY FORESTRY AT LEAST 48 HOURS PRIOR TO PLANTING TO VERIFY PLANTING SITE, INSPECT NURSERY STOCK, AND REVIEW CITY OF MADISON PLANTING SPEC.



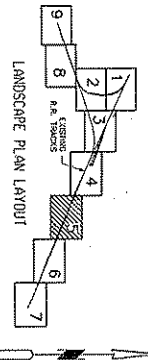
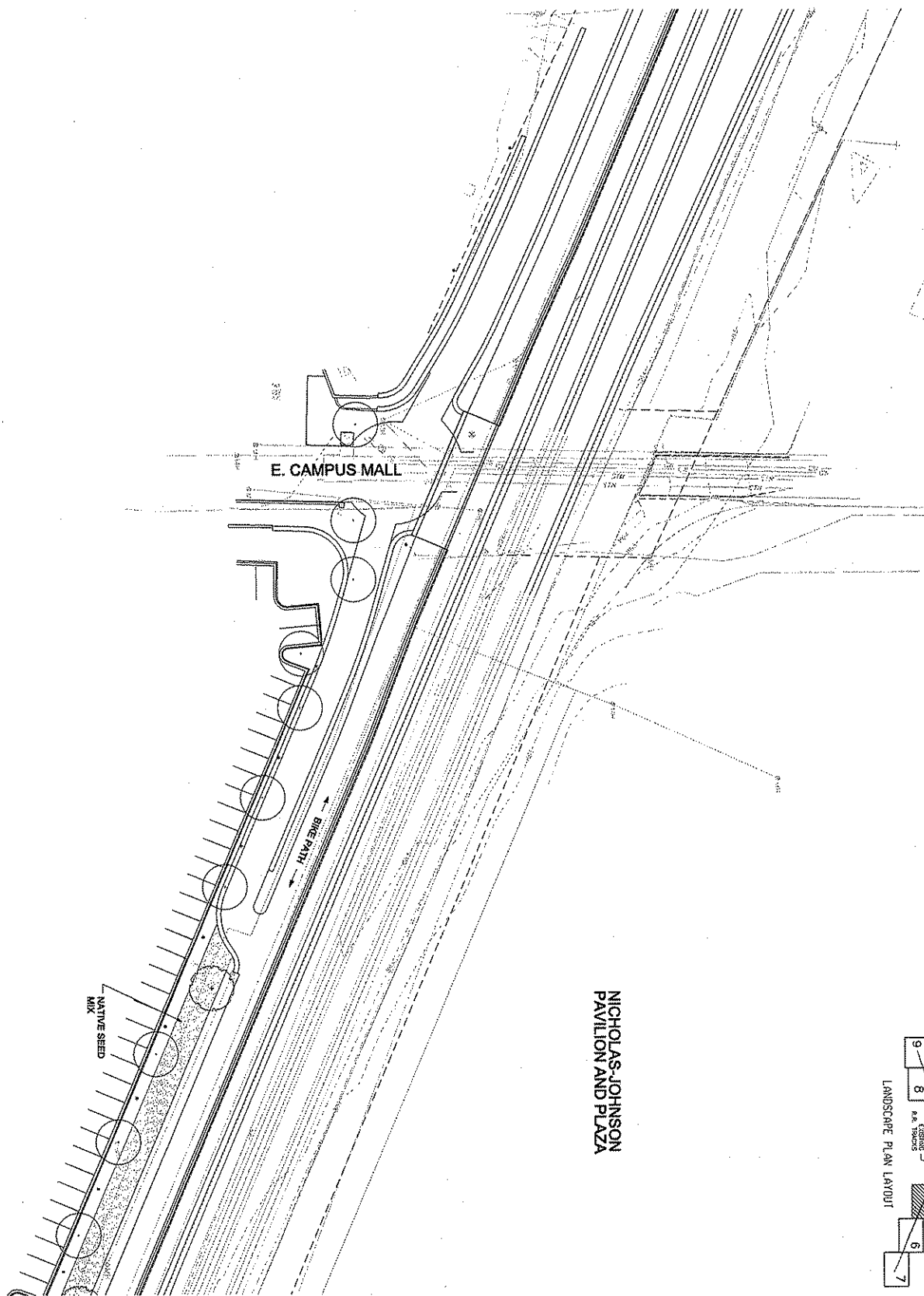
<p>POWER ENGINEERS 150 North State Street Madison, WI 53703 www.pec.com</p>		<p>150 North State Street Madison, WI 53703 www.poyry.com</p>		<p>150 North State Street Madison, WI 53703 www.middaugh.com</p>		<p>150 North State Street Madison, WI 53703 www.parkerlawson.com</p>									
<p>State of Wisconsin Department of Administration Division of State Facilities</p>				<p>Agency / Institution: UNIVERSITY OF WISCONSIN, MADISON</p>											
<p>Project Title: <b>CHARTER STREET REBUILD</b></p>															
<p>Project Location: <b>MADISON, WI.</b></p>															
<p>Sheet Title: GDP LANDSCAPE PLAN</p>															
<p>Revision</p> <table border="1"> <tr> <th>No.</th> <th>Description</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		No.	Description							<p>Drawn by: <b>0802L</b></p>		<p>Scale: <b>PR</b></p>		<p>Date: <b>03-10-10</b></p>	
No.	Description														
<p>Sheet Number: <b>L-003</b></p>		<p> </p>		<p> </p>		<p> </p>									



GENERAL NOTES:  
-NO LANDSCAPE WORK THIS SECTION-



Project Title: <b>CHARTER STREET REBUILD</b>		Project Location: <b>MADISON, WI.</b>		Agency / Institution: <b>UNIVERSITY OF WISCONSIN, MADISON</b>		State of Wisconsin Department of Administration Division of State Facilities			
Sheet Title: <b>GDP LANDSCAPE PLAN</b>		Date: <b>03-10-10</b>		Scale: <b>1" = 10'-0"</b>		Project No.: <b>0902L</b>		Sheet No.: <b>L-004</b>	



NICHOLAS-JOHNSON  
PAVILION AND PLAZA

E. CAMPUS MALL

BIKE PATH

NATIVE SEED  
MIX



Project Title:	CHARTER STREET REBUILD
Project Location:	MADISON, WI.
Sheet Title:	GDP LANDSCAPE PLAN
Scale:	1" = 10'-0"
Date:	03-10-10
Sheet Number:	L-005

State of Wisconsin  
Department of Administration  
Division of State Facilities

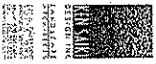
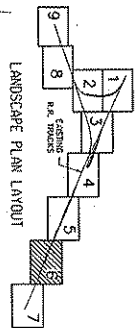
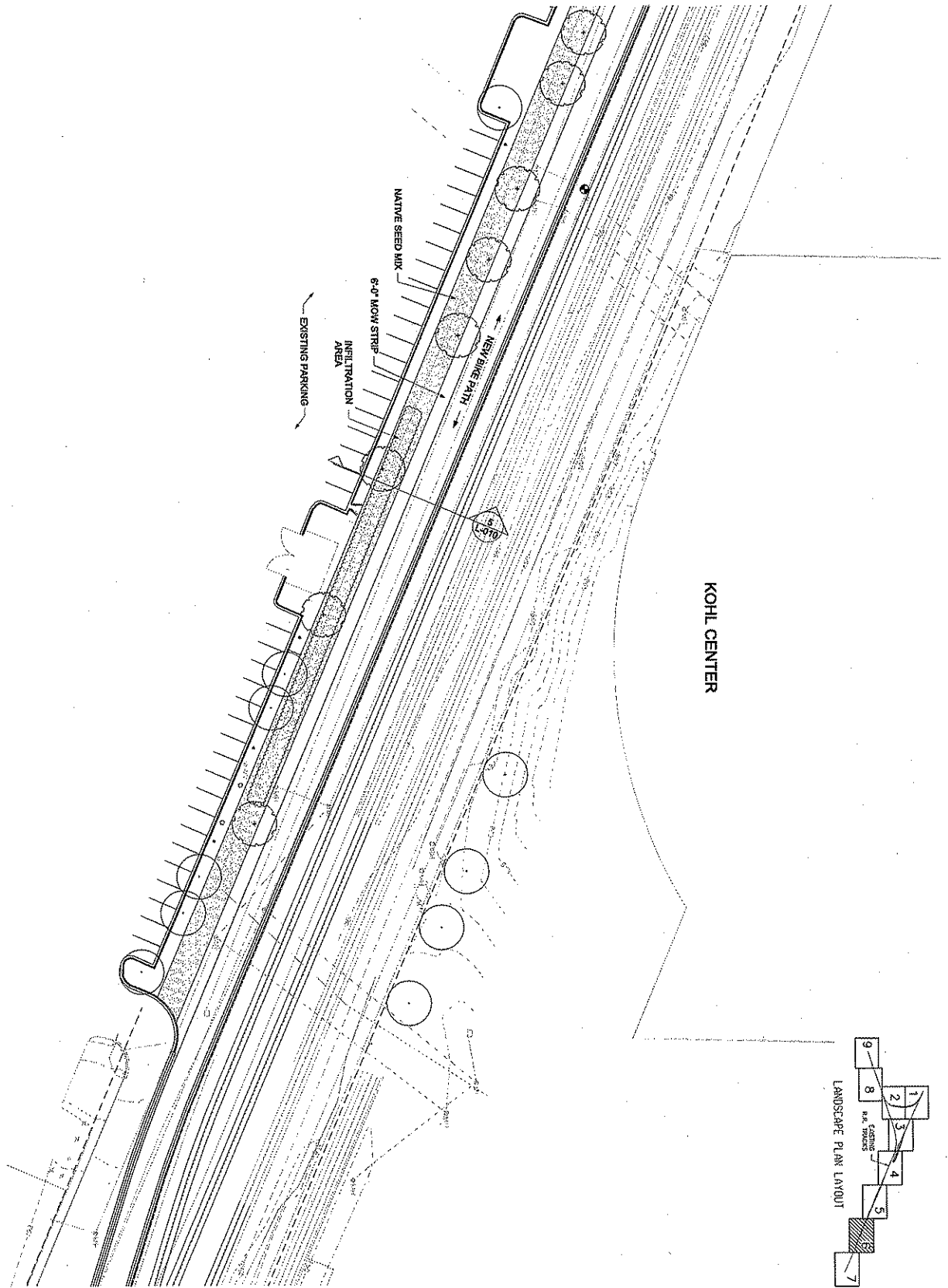
Agency / Institution:  
UNIVERSITY OF WISCONSIN, MADISON

**PEC**  
POWER ENGINEERING  
CONSULTANTS  
150 S. STATE STREET  
MADISON, WI 53703  
WWW.PECILLINOIS.COM

**Pöyry**  
Midtough  
Potter Lawson

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DATE	03-10-10
BY	PR
PROJECT NUMBER	09021
SHEET NUMBER	L-006

PROJECT TITLE	CHARTER STREET REBUILD
PROJECT LOCATION	MADISON, WI
SHEET TITLE	GDP LANDSCAPE PLAN

State of Wisconsin  
 Department of Administration  
 Division of State Facilities

Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON



State of Wisconsin  
 Department of Administration  
 Division of State Facilities

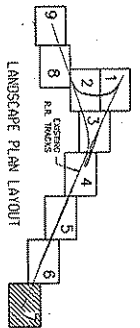
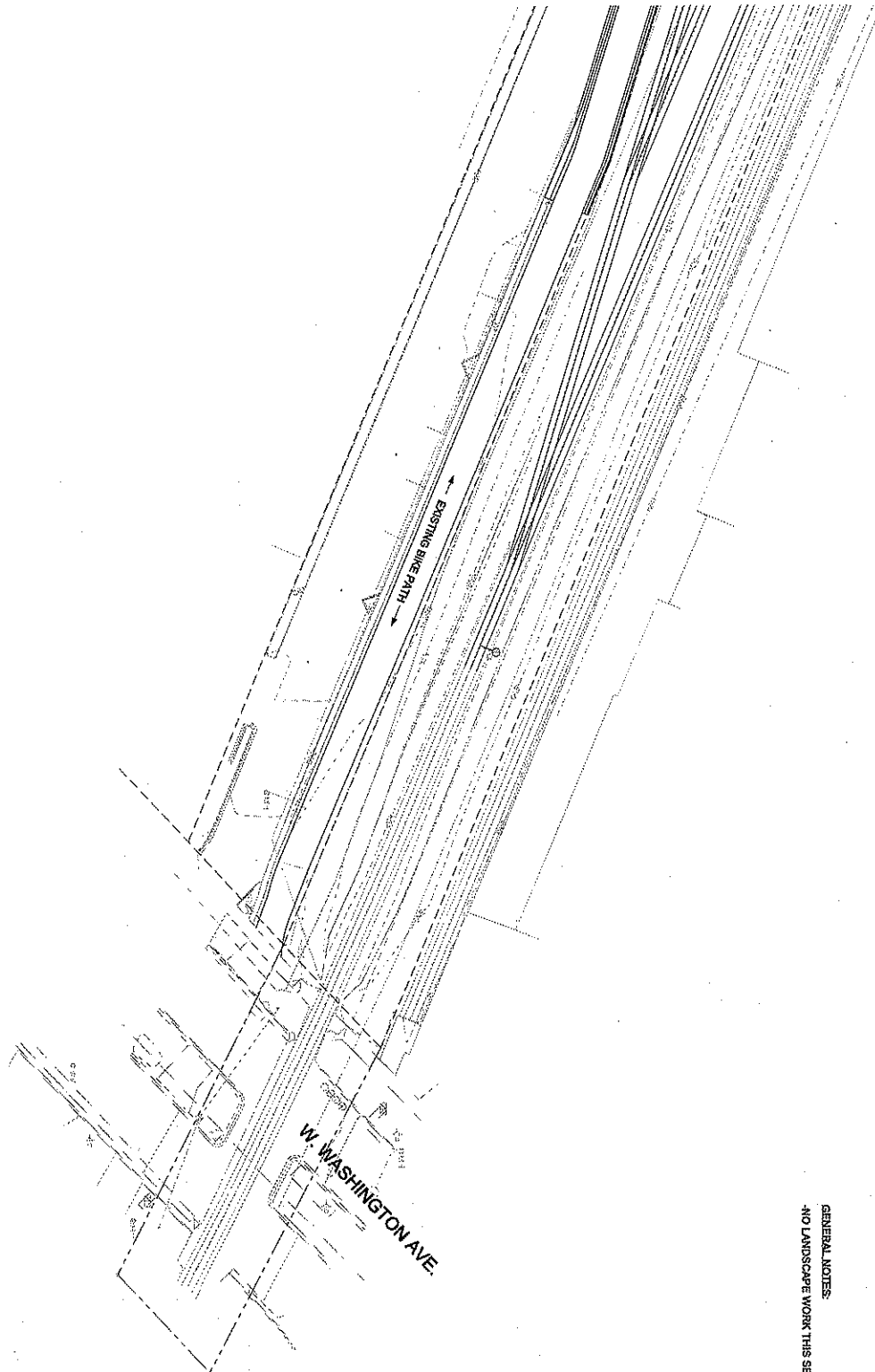
**PEC**

POWER ENGINEERS  
 CONSULTANTS LLC  
 150 South 50th Street  
 Brookfield, Wisconsin 53005  
 262.781.2200

**POYRY**

**Middaugh**

**Potter Lawson**



GENERAL NOTES:  
NO LANDSCAPE WORK THIS SECTION.



NO.	DATE	BY	DESCRIPTION

Project Name:  
**CHARTER STREET REBUILD**

Project Location:  
**MADISON, WI**

Sheet Title:  
**GDP LANDSCAPE PLAN**

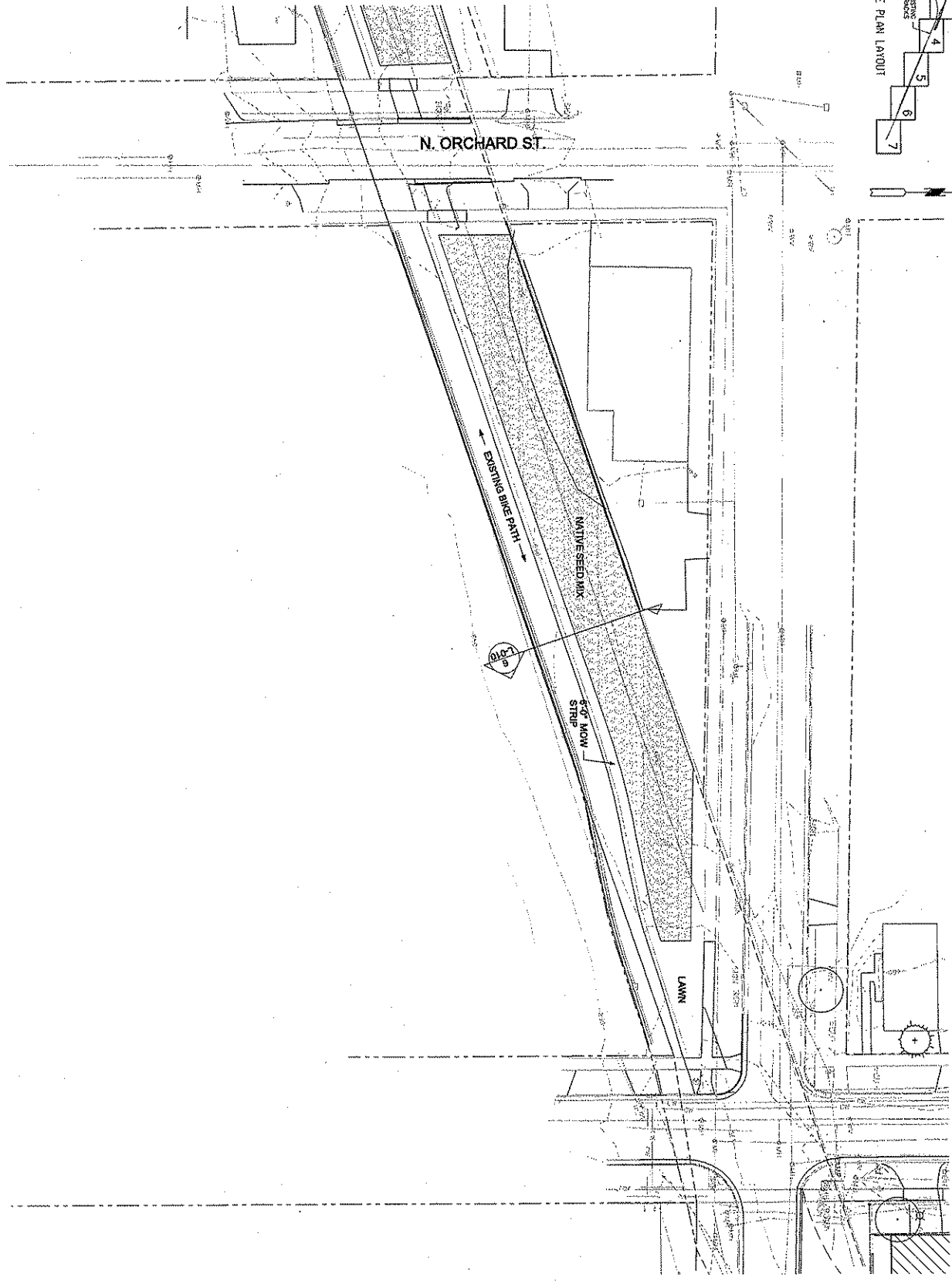
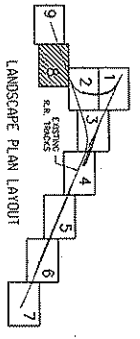
State of Wisconsin  
Department of Administration  
Division of State Facilities

Agency / Institution:  
**UNIVERSITY OF WISCONSIN, MADISON**

**PEC**  
POWER ENGINEERS  
CONSULTANTS  
1800 South Walnut Street  
Madison, WI 53706  
www.pecell.com

**PÖYRY**  
THE FINNISH GROUP

**Middough**  
PETER LAWSON



Scale	Sheet Number
1" = 20'	L-008
DATE	
03-10-10	
BY	
PR	
09A2L	
08A2L	
08A2L	

NO.	DATE	BY	DESCRIPTION

Project Title: **CHARTER STREET REBUILD**

Project Location: **MADISON, WI**

Sheet Title: **GDP LANDSCAPE PLAN**



State of Wisconsin  
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Agency / Institution:  
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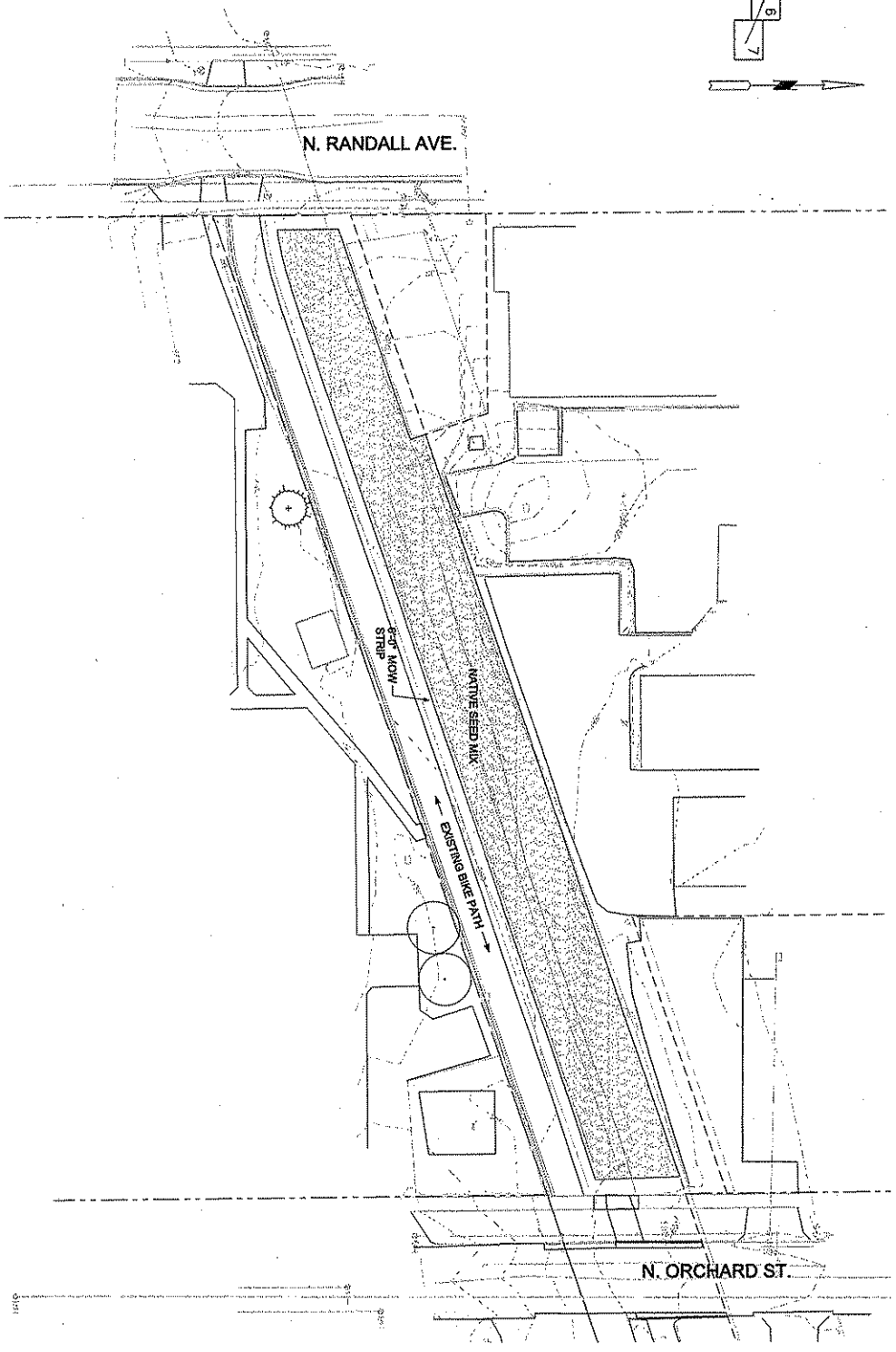
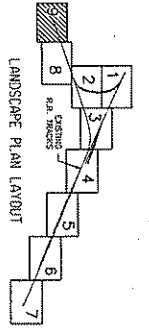
POWER ENGINEERS  
 CONSULTANTS  
 INC. 500 SOUTH MAIN STREET  
 MADISON, WI 53706  
 (608) 255-1100  
 www.pecinc.com

**Pöyry**

**Middaugh**

**Peter Lawson**

5




Sheet Number	Scale	Date	Revised	By	Checked	Approved
L-009		03-10-10				

Project Title:  
**CHARTER STREET REBUILD**

Project Location:  
**MADISON, WI**

Sheet Title:  
**GDP LANDSCAPE PLAN**



State of Wisconsin  
 Department of Administration  
 Division of State Facilities

Agency / Institution:  
 UNIVERSITY OF WISCONSIN, MADISON

**PEC**  
 POWER ENGINEERING CONSULTANTS

**S PÖYRY**  
 CONSULTANTS

**Midough**  
 CONSULTANTS

**Potter Lawson**  
 CONSULTANTS

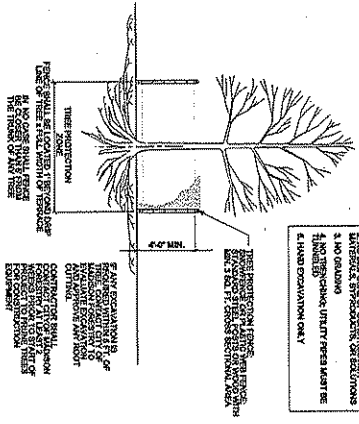
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PROTECTED WITH TREE PROTECTION ZONE

1. NO CONSTRUCTION SHALL OCCUR IN ANY PORTION OF PROTECTION ZONE

2. NO GRADING

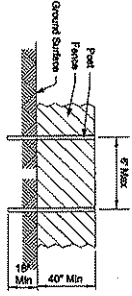
3. ALL MATERIALS TO BE PLACED WITHIN TREE PROTECTION ZONE SHALL BE 4" HAND EXAMINATION ONLY



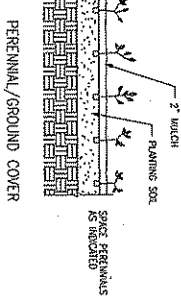
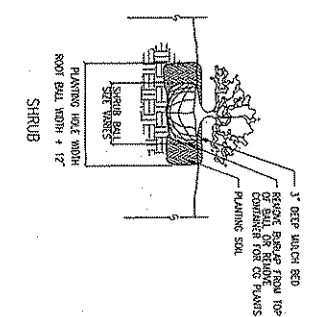
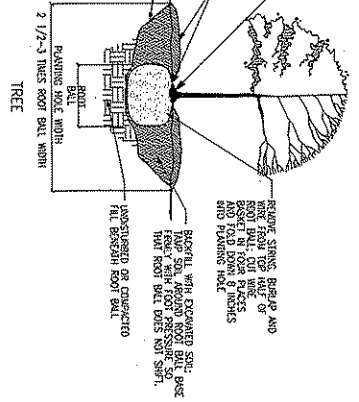
NOTES:

1. PROTECTION SHALL BE EITHER STAINLESS STEEL POSTS ON WOOD POSTS OR 4" DIA. GALVANIZED STEEL POSTS ON WOOD POSTS.

2. FENCE MAY BE EITHER 4" HIGH STAINLESS STEEL OR 4" DIA. GALVANIZED STEEL POSTS ON WOOD POSTS.

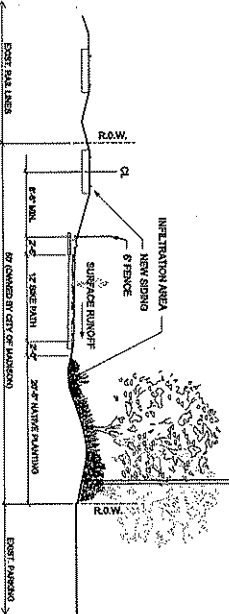
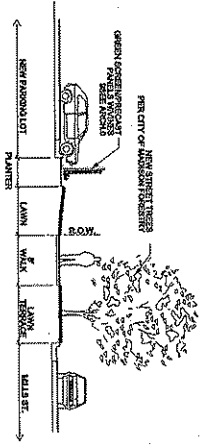
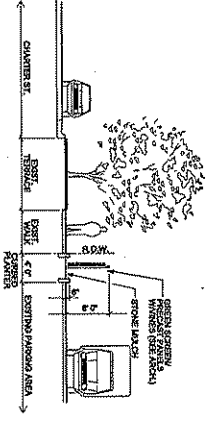


ROOT PART MUST BE PROTECTED AND SLOTTED. SLOTTING SHALL BE 1/2\"/>



1 TREE PROTECTION DETAIL

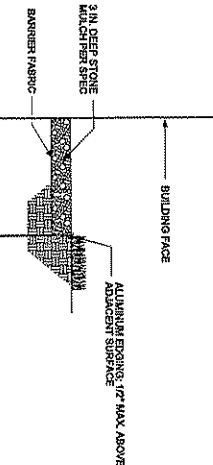
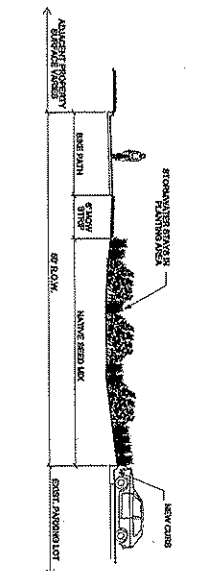
2 TYPICAL PLANTING DETAILS



3 SECTION • CHARTER STREET

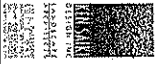
4 SECTION • M.I.S. STREET

5 SECTION • BIKE PATH AND NEW PARALLEL SIDEWALK



6 SECTION • BIKE PATH - RANDALL ST. TO CHARTER ST.

7 STONE MAINTENANCE EDGE



Project Name:	CHARTER STREET REBUILD
Project Location:	MADISON, WI.
Sheet Title:	GDP LANDSCAPE DETAILS
Scale:	1" = 10'-0"
Drawn by:	PR
Checked by:	PR
Date:	03-10-10
Sheet Number:	L-010

State of Wisconsin  
Department of Administration  
Division of State Facilities

UNIVERSITY OF WISCONSIN, MADISON

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POLICE ENGINEERS  
COLLABORATIVE LLC  
1575 South Wood Road  
Madison, WI 53704

POYRY  
POLICE ENGINEERS  
COLLABORATIVE LLC  
1575 South Wood Road  
Madison, WI 53704

midlough  
POLICE ENGINEERS  
COLLABORATIVE LLC  
1575 South Wood Road  
Madison, WI 53704

Police Lawson