

**CITY OF ANN ARBOR  
ANN ARBOR, MICHIGAN**

**ANN ARBOR WASTEWATER TREATMENT PLANT  
FACILITIES RENOVATIONS**

**ITB No. 4191**

**ADDENDUM NO. 2  
DECEMBER 12, 2011**

**TO:** Prospective Bidders

**FROM:** Malcolm Pirnie of Michigan Inc.  
1001 Woodward Ave. Suite 1000  
Detroit, Michigan 48226

**OWNER:** City of Ann Arbor  
Ann Arbor Wastewater Treatment Plant  
49 Old Dixboro Road  
Ann Arbor, Michigan 48107

**SUBJECT:** Ann Arbor Wastewater Treatment Plant  
Facilities Renovations Project – ITB No. 4191  
SRF Nos. 5441-01, 02, 03, 04, & 99

This Addendum No. 2 is part of the Bidding Documents and the Contract Documents and modifies the original Bidding Documents dated November 2011, as indicated below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of consists of 29 pages including 12 pages of addendum, 5 pages of contract compliance forms and 12 drawings.

**Project Manual**

**Item 1:**

**Project Manual, Volume I, Advertisement, Page 00110-1:** The Bid due date of “on or before 10:00 a.m., Monday, January 9, 2012....” Has been changed to “on or before 1:00 p.m., Monday January 9, 2012....”

**Item 2:**

**Project Manual, Volume I, Supplementary Conditions, Section 00810:** Insert the paragraph below SC-6.02 D

SC-6.02 D - Required Standard Contract Compliance Forms:

- Living Wage Ordinance – City of Ann Arbor- LW-1
- City of Ann Arbor – Living Wage Ordinance Declaration of Compliance – LW-2.
- Instruction for Contractors for Completing CONTRACT COMPLIANCE FORM - AAF3.
- Contract Compliance Form #1.  
Entire Organization (Totals for All Locations Where applicable)
- Contract Compliance Form #2  
Local Office (Only those employees that will do local or on-site work, if applicable)

**Item 3:**

**Project Manual, Volume I, Supplementary Conditions, Section 00810:**  
Replace SC-6.08 B in its entirety with the following:

“SC-608 B: In accordance with the General Conditions 6.08, and the Contract Documents, CONTRACTOR shall apply, obtain and pay for the permits listed below and all other permits required to complete the Work:

- Ann Arbor Township permits including construction permit (for stormwater system and utility work), Soil Erosion and Sediment Control (SESC), Building, Mechanical, Plumbing, and Electrical. The applications for these permits are available at [www.aatwp.org/permits.htm](http://www.aatwp.org/permits.htm) as well as the associated fees for each permit.
- MDEQ/USACE Joint Permit for the outfall construction within the Huron River.
- Permit to construct in a floodplain for the construction of the earthen embankment improvements
- Permit to pump perched and artesian groundwater  
CONTRACTOR shall be responsible to obtain all permits required to complete the Work. The above list of permits is not a complete list of all permits that may be required to complete the Work.”

**Contract Drawings – Volume 1 of 2**

**Item 4:**

**Contract Drawing No. A00-09:** Replace with attached revised Contract Drawing No. A00-09 (Rev 1, 12/7/11).

**Item 5:**

**Contract Drawing No. A00-10:** Replace with attached revised Contract Drawing No. A00-10 (Rev 1, 12/7/11).

**Item 6:**

**Contract Drawing No. M03-01:** Replace with attached revised Contract Drawing No. M03—01 (Rev 1, 12/7/11).

**Item 7:**

**Contract Drawing No. M04-07:** Replace with attached revised Contract Drawing No. M04-07 (Rev 1, 12/7/11).

**Item 8:**

**Contract Drawing No. M05-19:** Replace with attached revised Contract Drawing No. M05-19 (Rev 1, 12/7/11).

**Item 9:**

**Contract Drawing No. M05-20:** Replace with attached revised Contract Drawing No. M05-20 (Rev 1, 12/7/11).

**Item 10:**

**Contract Drawing No. M05-28:** Replace with attached revised Contract Drawing No. M05-28 (Rev 1, 12/7/11).

**Item 11:**

**Contract Drawing No. M06-01:** Replace with attached revised Contract Drawing No. M06-01 (Rev 1, 12/7/11).

**Item 12:**

**Contract Drawing No. M06-04:** Replace with attached revised Contract Drawing No. M06—04 (Rev 1, 12/7/11).

**Item 13:**

**Contract Drawing No. M07-20:** Replace with attached revised Contract Drawing No. M07—20 (Rev 1, 12/7/11).

**Item 14:**

**Contract Drawing No. C01-27:** Replace with attached revised Contract Drawings No. C01-27 (Rev 1, 12/7/11)

**Item 15:**

**Contract Drawing No. C01-31:** Replace with attached revised Contract Drawings No. C01-31 (Rev 1, 12/7/11)

## Bidder's Questions

(Please note that all responses to bidder(s) questions are in *italics* text)

### Item 16:

**Bidder's Question:** Construction Material Testing (CMT) and Geotechnical Instrumentation are provided by Owner/ Malcolm Pirnie or by the General Contractor as part of their scope.

*Response: Construction Material Testing (CMT) shall be provided by the Contractor in accordance with the Contract Documents. Geotechnical Instrumentation shall be provided by the Contractor in accordance with the Contract Documents.*

### Item 17:

**Bidder's Question:** The qualifications that are listed as part of the bid document state two conflicting statements.

Within the bid form under Article 6 – Attachment to this bid – The following documents are attached to and made a condition of this Bid:

6.01. B Required Bidder Qualifications Statement with supporting data.

But the top of 00451-1: Bidder Qualifications Statement references “(Completion of this statement is required in advance of consideration for award of Contract.)

Please provide clarification as to when the qualifications are required to be turned in.

*Response: Bidder Qualifications Statement shall be submitted as an attachment to the bid in accordance with Section 00410, BID FORM, Article 6 of the Project Manual, Volume I of IV.*

### Item 18:

**Bidder's Question:** Please provide clarification if the following documents are required to be turned in with the bid as they were not included within the bid form section 00410; The Michigan Department of Environmental Quality 00810-26 and Certification Regarding Debarment, Suspension and Other Responsibility Matters 00810-29.

*Response: Refer to SC-6.02C Required Standard Contract Language: Clean Water State Revolving Fund and Drinking Water Revolving Fund, Page 00810-13 which states the following “Bidders should note these sections contain instructions regarding forms/information that must be completed/included with any submitted bid.”*

### Item 19:

**Bidder's Question:** Please provide clarification as to how the bid form shall be turned in at bid time. One area states that it must be included into the all project

manual – is this just Volume I or all the Volumes must accompany it. But section 17.02 states the bid must be turned in, in an opaque envelope.

**Response:** *Bid shall be submitted in accordance with Section 00210, INSTRUCTION TO BIDDERS, Article 15 and documents required to be submitted with the bid contained within the General Conditions and Supplementary Conditions*

**Item 20:**

**Bidder's Question:** Request to add Motor City Electric Technologies to the list of approved Controls System Integrators for this project.

**Response:** *Additional Controls System Integrators will not added but can be submitted in accordance with the Contract Documents as an "Engineer approved or equal."*

**Item 21:**

**Bidder's Question:** Request to add HydroGate to the list of Suppliers in Specification Sections 11287 (Slide Gates) and 11289 (Sluice Gate).

**Response:** *Additional gate suppliers will not added but can be submitted in accordance with the Contract Documents as an "Engineer approved or equal."*

**Item 22:**

**Bidder's Question:** Request to add Blending Tank Technologies to the listed manufacturers in Specification Section 13201 (Fiberglass Reinforced Plastic Tanks for Storing Liquid Chemicals).

**Response:** *Additional Storage tank suppliers will not added but can be submitted in accordance with the Contract Documents as an "Engineer approved or equal."*

**Item 23:**

**Bidder's Question:** Bid Form Section 00410

Bid items 7 and 8 calls for 5,300,00 gal of Liquids to be removed and 750 CY solids to be removed cleaned and disinfection of structures before demolition for the west side of the treatment plant. Section 01143-4 item 1.4, B-2 estimates the quantity of liquids to be 6,700,000 gal and 10,000 CY of solids, there is a big difference between the bid schedule quantities vs. the estimated quantity in section 01143.

a. What shall the contractor include in the bid and under which line item?

**Response:** *The volumes noted in the bid form for Unit Price Items 7 and 8 are correct. Specification Section 01143 will be revised accordingly.*

- b. Shall all removal of liquids and solids of the tanks, structures piping with disinfection of the west plant be paid under those unit price line items?

*Response: No, refer to Specification Section 01271 Measurement and Payment for clarification of the scope for these unit price items.*

- c. Shall all removal of liquids and solids of existing west operational side be paid under those unit price line items or to be included in other bid item?

*Response: The facilities of the west plant proper are not operational. Refer to Specification Section 01271 Measurement and Payment for clarification of the scope for these unit price items.*

- d. Can the liquids and solid of the west plant be disposed into the new fully renovated east plant or into the working part of the east side as it is sequenced to be shutdown?

*Response: No.*

**Item 24:**

**Bidder's Question: Bid Form Section 00410**

Bid item 9-g calls for the contractor to include a pad replacement unit price for 270 SF per the engineer's direction.

- a. What shall the contractor assume as a thickness & reinforcing for those pads, as this would affect the unit price? Please specify some parameters for the estimate?

*Response: Pad thicknesses shall be 6" and one mat of #4@18" o.c.*

- b. Please confirm that those pads are above and beyond what is shown on the drawings and they will be on as needed bases?

*Response: These pads are above and beyond pads that are specified in the Contract Documents.*

**Item 25:**

**Bidder's Question: Bid Form Section 00410**

Bid item 9-h calls for 530 LF of joint repairs submerged in water; please confirm that this work can be conducted in the dry during the shutdown of the structures.

*Response: Yes this work can be done in the dry. However, the adjacent tanks may not be dry.*

**Item 26:**

**Bidder's Question: Bid Form Section 00410**

Bid item 9-s calls for 40,000 SF of slurry mortar of submerged surfaces and up to 12" above waterlines.

- a. It is unclear to us where this amount of quantity is called for? The drawings appear to show much less of a quantity.

*Response: The area is intended to encompass the East Primary Clarifiers and East Aeration tanks.*

- b. Please specify if there is any particular thickness or parameters to be used for estimating of this line item?

*Response: Two 40 MIL layers for a total of 80 MILs.*

**Item 27:**

**Bidder's Question: Bid Form Section 00410**

Bid item 9-v removal and replacement (of what?) as directed by the engineer of 20 CF. What shall the contractor assume to be removed and replaced?

*Response: Elevated slab. Assume a thickness of 8" and two mats of #5@12" reinforcement.*

**Item 28:**

**Bidder's Question: Bid Form Section 00410**

Pre-bid line items 12 and 13, it is assumed all work regarding the temporary administration building will be paid under those allowances and therefore no additional money is to be included in the remainder of the bid? Please confirm that all required items are included (mobilization, setup, rental rates, furniture, IT, movement, parking, fencing, dumpster area, utility hook-ups & consumption, etc.) in this allowance.

*Response: Item No. 12 applies to the furniture and office requirements for the new Administration building and has nothing to do with the temporary administration building. The bid form will be revised to clarify this question.*

*Item No. 13 applies only to the furniture and office requirements in the temporary Administration Building. Specification Section 01521 identifies the requirements of the temporary administration facilities that are to be included in Lump Sum Item No. 1 of the Bid Form.*

**Item 29:**

**Bidder's Question:** At the pre bid meeting, it was stated that the cutoff date for questions is December 30, 2011. The Bid date is currently schedule for 1/9/12 at 10:00 AM. This leaves only 10 days from cut-off date to the bid date, 6 of which

are Holidays and weekends. This leaves only 4 days for Contractors to react to any response that may be issued by the A/E (this assumes that a response will be published in the morning on Tuesday January 3, 2012). This is not a reasonable amount of time for such a large complex project. Further complicating the bid process is the fact that the bid date and the time is currently set for Monday at 10:00 AM. In light of the above, we request an extension to the bid date of at least 2 weeks. We also request for the bid due date be scheduled for any day of the week other than Monday and finally, we request that the bid time be changed to the more traditional time of 2:00 PM. These changes will allow the contractors adequate time to react to response generated by the A/E and will also result in more complete and competitive bids.

*Response: See Item No. 1 of this addendum. There will be no further revisions to the bid due date or time.*

**Item 30:**

**Bidder's Question:** This project has very complex and extensive dewatering requirements. The dewatering system will have considerable power consumption requirement. Who is responsible for the paying the power consumption costs associated with the dewatering system? On other public projects with complex dewatering or bypass pumping requirements these costs have typically been borne by the owner. Please consider making this an owner responsibility on this project or please establish an allowance for these costs. The cost for consumption can be established through a separate meter for the power consumption of the just dewatering activities alone.

*Response: The contractor shall install a meter to record the power used during the dewatering and it shall be paid in accordance with the specific cash allowance requirements within the Contract Documents.*

**Item 31:**

**Bidder's Question:** Sheets C01-27 & 31

What are the quantities of plugs for various planting zones (C, D, E, F) and rain gardens (A, B, D, D). There only appear to be total quantities, but not individual species shown on the Plant Schedules.

*Response: See revised Sheets C01-27 and C01-31 attached to this Addendum..*

**Item 32:**

**Bidder's Question:** Bid Form Section 00410

Bid item 16 and 17 includes all fees as required to pay for all permits, including but not limited to the MDEQ/ USACE and the City of ANN Arbor Township. What will be the role of the contractor in obtaining permits?

*Response: Refer to Item No. 3 on this addendum.*

**Item 33:**

**Bidder's Question: Bid Form Section 00410**

Bid Item 9-c calls for concrete curb and railings replacement as directed by the engineer. It is unclear what kind of curbs or railings are required to be replaced. Please provide details.

*Response: Refer detail 8 on ROO-02.*

**Item 34:**

**Bidder's Question: Bid Form Section 00410 -10**

Please confirm that all items marked (A) are acceptable by the owner, and that any of the equipment marked (B) will be considered as an alternate but needs to be submitted with additional submittals per item 4.06 with the bid form. And regardless if these (B) items meet the design criteria, the Owner can still choose to use equipment (A) with no additional charge.

*Response: Yes, all equipment and materials identified as (A) are acceptable to the Owner. Section 00410 4.06 A and B identifies what submittal information is required for write-in equipment/Supplier Alternates. Section 00410 paragraph 4.05 states in part, "The bidder shall base the Bid upon the specified and named "(A)" equipment supplier as listed in the following Materials and Equipment Schedule."*

**Item 35:**

**Bidder's Question:** On sheet M06-01 the 30" PE pipe into the Primary Effluent Chamber, is the intent a wall sleeve with seals or a plain end x collar x plain end wall pipe?

*Response: The 30" PE pipe through the Primary Effluent Chamber shall be Wall pipe, Plain end x collar x mechanical joint. See Contract Drawing No. M06-01 revisions in Addendum No. 2.*

Do the lines beneath the West Primary Clarifiers (8" PS & 30" PI) and the lines beneath the West Secondary Clarifiers (42" ML & 12" RAS) need to be restrained?

*Response: Yes, the lines beneath the West Primary Clarifiers and the lines beneath the West Secondary Clarifiers shall be restrained.*

If so would a Fast-Grip Restraining Gasket be acceptable on the 8" – 12" since mechanical joint pipe is not manufactured in PC 350 pipe, and would Flex-Ring joint pipe be acceptable for the 30" & 42" since mechanical joint pipe is not manufactured in these sizes?

*Response: Fast- Grip restraining gaskets are NOT acceptable for 8"-12" mechanical joint pipe. Restrained joints shall be per Specification*

*Section 15061. Flex-Ring is acceptable per Specification Section 15061.*

Please clarify the flange gasket specification on 15061-5 as to the material of construction.

**Response:** *Flange gasket material of construction shall be per Specification Section 15061, Part 2 – Product, section 2.1, B, 3, a, 1.*

**Item 36:**

**Bidder's Question:** On sheet M07-20 the scum piping is called out as 6", while on sheet M07-17 it is called out as 8"?

**Response:** *The Scum pipe shall be 8". See Contract Drawing No. M07-20 revisions in Addendum No. 2.*

**Item 37:**

**Bidder's Question:** On sheets M06-04 & -06 is the 6" scum suction pipe from scum well to primary scum pumps 6" or 8"?

**Response:** *The scum suction pipe shall be 6". See Contract Drawing No. M06-04 revisions in Addendum No. 2.*

**Item 38:**

**Bidder's Question: 1-** Sheets M03-01 & M03-02

- a. On the 30"/24" primary influent, is there a grooved coupling on the 24" line just "upstream" on the flange coupling adapter. Shown on M03-01, not on -02

**Response:** *See Contract Drawing M03-01 revisions in Addendum No. 2.*

- b. On the 60"/48" influent pipe, is the piping to be steel or ductile iron. Drawn with some flange and some welded joints. Is the 48" wall pipe to be ductile iron Flange x Collar x Plain End, with the site contractor adapting from the PCCP pipe to the ductile iron plain end?

**Response:** *The 48" pipe shall be Ductile Iron (DI). The 60" pipe shall be pre-stressed Concrete Cylinder Pipe (PCCP) per Specification Section 15051 and 15052.*

- c. None of the flange adapters on this page appear to be restrained. Is this correct?

**Response:** *Yes, for sheet M03-01.*

**Bidder's Question: 2** - On sheets M04-07 and M05-28 is the existing interior scum piping 6" or 8"?

**Response:** *The existing interior scum piping is 6". See Contract Drawing M05-28 revisions in Addendum No. 2.*

**Bidder's Question: 3** - Does the PDBA piping spec on page 15052-24 replace the spec on page 15052-23?

**Response:** *No. See Project Manual, Volume IV of IV, Page 15052-23 revisions in Addendum No. 2.*

**Bidder's Question: 4** - The 16" RAS suction line is laid out differently on sheets M05-17 and M05-20. Which is correct?

**Response:** *The 16" RAS suction line is correctly shown on contract Drawing M05-17. See Contract Drawing No. M05-20 revisions in Addendum No. 2.*

**Bidder's Question: 5** - On sheet M05-19 there is a 6" line at the top of the page drawn darker than the rest. I am assuming that this is the 6" SAM discharge line. Although it is drawn with flange joints. According to Table 15052-A the 6" SAM line is to be PVC. Am I correct that the 6" SAM line is to be PVC?

**Response:** *The 6" SAM line shall be Ductile Iron. See Project Manual Volume VI of VI, Page 15052-23 revisions in Addendum No. 2.*

**Bidder's Question: 6** - I could not find a domestic requirement in the project documents, so am I correct that import flange and grooved fittings will be acceptable?

**Response:** *There is not a buy American requirement in the Contract.*

**Attachments to Addendum No. 2**

**Item No. 2 Attachments:**

- Living Wage Ordinance – City of Ann Arbor- LW-1
- City of Ann Arbor – Living Wage Ordinance Declaration of Compliance – LW-2.
- Instruction for Contractors for Completing CONTRACT COMPLIANCE FORM - AAF3.
- Contract Compliance Form #1. (Entire Organization (Totals for All Locations Where applicable)
- Contract Compliance Form #2 Local Office (Only those employees that will do local or on-site work, if applicable)

<b>Item No. 4 Attachment:</b>	Revised Contract Drawing No. A00-09
<b>Item No. 5 Attachment:</b>	Revised Contract Drawing No. A00-10
<b>Item No. 6 Attachment:</b>	Revised Contract Drawing No. M03-01
<b>Item No. 7 Attachment:</b>	Revised Contract Drawing No. M04-07
<b>Item No. 8 Attachment:</b>	Revised Contract Drawing No. M05-19
<b>Item No. 9 Attachment:</b>	Revised Contract Drawing No. M05-20
<b>Item No. 10 Attachment:</b>	Revised Contract Drawing No. M05-28
<b>Item No. 11 Attachment:</b>	Revised Contract Drawing No. M06-01
<b>Item No. 12 Attachment:</b>	Revised Contract Drawing No. M06-04
<b>Item No. 13 Attachment:</b>	Revised Contract Drawing No. M07-20
<b>Item No. 14 Attachment:</b>	Revised Contract Drawing No. C01-27
<b>Item No. 15 Attachment:</b>	Revised Contract Drawing No. C01-31

→ **RATE EFFECTIVE MAY 1, 2011-ENDING APRIL 29, 2012**←

## **LIVING WAGE ORDINANCE – CITY OF ANN ARBOR**

**\$11.83** per hour

if the employer provides health care benefits\*

**\$13.19** per hour

if the employer does **NOT** provide health care benefits\*

Employers providing services to or for the City of Ann Arbor or recipients of grants or financial assistance from the City of Ann Arbor for a value of more than \$10,000 in a twelve-month period of time ***must pay those employees performing work on a City of Ann Arbor contract or grant, the above living wage.***

## **ENFORCEMENT**

The City of Ann Arbor may recover back wages either administratively or through court action for the employees that have been underpaid in violation of the law. Persons denied payment of the living wage have the right to bring a civil action for damages in addition to any action taken by the City.

Violation of this Ordinance is punishable by fines of not more than \$500/violation plus costs, with each day being considered a separate violation. Additionally, the City of Ann Arbor has the right to modify, terminate, cancel or suspend a contract in the event of a violation of the Ordinance.

*\* Health Care benefits include those paid for by the employer or making an employer contribution toward the purchase of health care. The employee contribution must not exceed \$.50 an hour for an average work week; and the employer cost or contribution must equal no less than \$1/hr for the average work week.*

**The Law Requires Employers to Display This Poster Where Employees Can Readily See It.**

***For Additional Information or to File a Complaint Contact:***

Linda Newton, Procurement Officer  
734/794-6576 or [lnewton@a2gov.org](mailto:lnewton@a2gov.org) LW-1

City of Ann Arbor

**LIVING WAGE ORDINANCE  
DECLARATION OF COMPLIANCE**

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that employers providing services to the City or recipients of grants for financial assistance (in amounts greater than \$10,000 in a twelve-month period of time) pay their employees who are working on the City project or grant, a minimum level of compensation known as the **Living Wage**. This wage must be paid to the employees for the length of the contract/project.

*Companies employing fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from the Ordinance. If this exemption applies to your firm, please check below:*

- This company is exempt due to the fact that we employ or contract with fewer than 5 individuals.
- This **non-profit agency** is exempt due to the fact that we employ or contract with fewer than 10 employees.

The Ordinance requires that all contractors/vendors and/or grantees agree to the following terms:

a) To pay each of its employees performing work on any covered contract or grant with the City, no less than the living wage, which is defined as \$11.83/hour when health care is provided, or no less than \$13.19/hour for those employers that do *not* provide health care. It is understood that the Living Wage will be adjusted each year on April 30, and covered employers will be required to pay the adjusted amount thereafter. The rates stated above include any adjustment for 2011.

b) Please check the boxes below which apply to your workforce:

Employees who are assigned to *any covered* City project or grant will be paid at or above the applicable living wage without health benefits Yes  No

**OR**

Employees who are assigned to *any covered* City project or grant will be paid at or above the applicable living wage with health benefits Yes  No

- c) To post a notice approved by the City regarding the Living Wage Ordinance in every work place or other location in which employees or other persons contracting for employment are working.
- d) To provide the City payroll records or other documentation as requested; and,
- e) To permit access to work sites to City representatives for the purposes of monitoring compliance, investigating complaints or non-compliance.

The undersigned authorized representative hereby obligates the contractor/vendor or grantee to the above stated conditions under penalty of perjury and violation of the Ordinance.

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Address City State Zip

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Phone (area code)

\_\_\_\_\_  
Type or Print Name and Title

\_\_\_\_\_  
Email address

\_\_\_\_\_  
Date signed

**Questions about this form? Please contact:**  
Procurement Office City of Ann Arbor  
Phone: 734/794-6576 Fax:734/994-2777

**City of Ann Arbor Procurement Office**

**INSTRUCTIONS FOR CONTRACTORS**

**For Completing CONTRACT COMPLIANCE FORM**

City Policy

The “non discrimination in contracts” provision of the City Code, (Chapter 112, Section 9:161) requires contractors/vendors/grantees doing business with the City not to discriminate on the basis of actual or perceived race, color, religion, national origin, sex, age, condition of pregnancy, marital status, physical or mental limitations, source of income, family responsibilities, educational association, sexual orientation, gender identity or HIV status against any of their employees, any City employee working with them, or any applicant for employment. It also requires that the contractors/vendors/grantees include a similar provision in all subcontracts that they execute for City work or programs.

This Ordinance further requires that each prospective contractor/vendor submit employment data to the City showing current total employee breakdown by occupation, race and gender. This allows the Human Rights Office to determine whether or not the contractor/vendor has a workforce that is reflective of the availability of women and under-represented minorities within the contractor’s labor recruitment area (the area where they can reasonably be expected to recruit employees). ***This data is provided to the City on the Human Rights Contract Compliance Forms (attached).***

**To complete the form:**

**1) If a company has more than one location, then that company must complete 2 versions of the form.**

- **Form #1** should contain the employment data for the **entire corporation.**
- **Form #2** should contain the employment data for those employees:
  - who will be working on-site;
  - in the office responsible for completing the contract; or,
  - in the case of non-profit grantees, those employees working on the project funded by the City grant(s).

2) If the company has only one location, fill out Form #1 only.

3) Complete all data in the upper section of the form including the name of the person who completes the form and the name of the company/organization’s president.

4) Complete the Employment Data in the remainder of the form. Please be sure to complete all columns including the Total Columns on the far right side of the form, and the Total row and Previous Year Total row at the bottom of the form.

5) Return the completed form(s) to your contact in the City Department for whom you will be conducting the work.

**For assistance in completing the form, contact:**

Procurement Office of the City of Ann Arbor  
734/994-2719

If a contractor is determined to be out of compliance, the Procurement Office will work with them to assist them in coming into compliance.

**CITY OF ANN ARBOR HUMAN RIGHTS OFFICE  
CONTRACT COMPLIANCE FORM**

**Form #1**

*Entire Organization (Totals for All Locations where applicable)*

Name of Company/Organization \_\_\_\_\_ Date Form Completed \_\_\_\_\_

Name and Title of Person Completing this Form \_\_\_\_\_ Name of President \_\_\_\_\_

Address \_\_\_\_\_ (Street address) \_\_\_\_\_ (City) \_\_\_\_\_ (State) \_\_\_\_\_ (Zip) \_\_\_\_\_ County \_\_\_\_\_ Phone # \_\_\_\_\_ (Area Code)

Fax# \_\_\_\_\_ (Area Code) \_\_\_\_\_ Email Address \_\_\_\_\_

Job Categories	EMPLOYMENT DATA											TOTAL COLUMNS A-M		
	Number of Employees (Report employees in only one category)													
	Male					Female								
White	Black or African American	Asian	Hispanic or Latino	American Indian or Alaska Native	Native Hawaiian or Other Pacific Islander	F	G	H	I	J	K	L	M	
A	B	C	D	E	F	G	H	I	J	K	L	M		
Exec/Sr. Level Officials														
Supervisors														
Professionals														
Technicians														
Sales														
Admin. Support														
Craftspeople														
Operatives														
Service Workers														
Laborers/Helper														
Apprentices														
Other														
<b>TOTAL</b>														
<b>PREVIOUS YEAR TOTAL</b>														

**CITY OF ANN ARBOR HUMAN RIGHTS OFFICE  
CONTRACT COMPLIANCE FORM**

Form #2

*Local Office (Only those employees that will do local or on-site work, if applicable)*

Name of Company/Organization \_\_\_\_\_ Date Form Completed \_\_\_\_\_

Name and Title of Person Completing this Form \_\_\_\_\_

Fax# \_\_\_\_\_ (Area Code) \_\_\_\_\_ Email Address \_\_\_\_\_

Job Categories	EMPLOYMENT DATA											TOTAL COLUMNS A-M
	Number of Employees (Report employees in only one category)											
	Male					Female						
White	Black or African American	Asian	Hispanic or Latino	Native Hawaiian or Other Pacific Islander	American Indian or Alaska Native	White	Black or African American	Asian	Hispanic Latino	Native Hawaiian or Other Pacific Islander	American Indian or Alaska Native	
A	B	C	D	F	G	H	I	J	K	L	M	
Exec/Sr. Level Officials												
Supervisors												
Professionals												
Technicians												
Sales												
Admin. Support												
Craftspeople												
Operatives												
Service Workers												
Laborers/Helper												
Apprentices												
Other												
<b>TOTAL</b>												
<b>PREVIOUS YEAR TOTAL</b>												

Questions about this form? Call 734/994-2719

**ROOM FINISH SCHEDULE**

ROOM NUMBER AND ROOM NAME	WALL				FLOOR	BASE	CEILING TYPE	REMARKS
	NORTH	EAST	SOUTH	WEST				
<b>RAW SEWAGE LIFT STATION A03</b>								
03-101 SCREW PUMP ELECTRICAL ROOM	PT-CMU	PT-CMU	-	-	EX CONC	-	EX CONC	PAINT NEW CMU WALL ONLY
03-102 SCREW PUMP ROOM	-	-	PT-CMU	PT-CMU	EX CONC	-	EX CONC	PAINT NEW CMU WALL ONLY
03-103 VESTIBULE	PT-CMU	PT-CMU	PT-CMU	PT-CMU	EX CONC	-	EX CONC	
<b>RAW SEWAGE LIFT STATION ELECTRICAL BUILDING A03</b>								
03-101 ELECTRICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
03-102 MECHANICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
<b>EAST PRIMARY BUILDING A04</b>								
04-101 MECHANICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CONC	-	PC	
04-102 ELECTRICAL ROOM	PT-CB	PT-CB	PT-CMU	PT-CMU	CONC	-	PC	
<b>EAST BLOWER / ELECTRICAL BUILDING A05</b>								
05-101 BLOWER ROOM	EX-CMU	EX-CMU	EX-CMU	EX-CMU	EX CONC	-	PC	
05-102 MECHANICAL ROOM	PT-CB	PT-CB	EX-CMU	EX-CMU	EX CONC	VB	PC	
05-103 SAMPLER ROOM	PT-CMU	PT-CMU	PT-CB	PT-CB	RTF	VB	APC-1	
05-104 SUBSTATION ROOM	-	-	-	-	EX CONC	-	PC	
05-105 ELECTRICAL ROOM	PT-CMU	PT-CB	PT-CB	PT-CMU	CH	VB	PC	
<b>EAST FERRIC BUILDING A05</b>								
05-101 MECHANICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
<b>WEST PRIMARY BUILDING A06</b>								
06-010 PUMP ROOM	CONC	CONC	CONC	CONC	CH	-	CONC	
06-101 VESTIBULE	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
06-102 ELECTRICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
06-103 MECHANICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
06-104 STAIR	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
<b>WEST BLOWER BUILDING A07</b>								
07-010 PUMP ROOM	CONC	CONC	CONC	CONC	CH	-	CONC	
07-101 BLOWER ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
07-102 ELECTRICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
07-103 STAIR	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
07-104 INTAKE PLENUM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
07-105 MECHANICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
07-106 SWITCHGEAR ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
<b>WEST FERRIC BUILDING A07</b>								
08-101 MECHANICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
<b>FLOW EQUALIZATION AND RETENTION BUILDING A08</b>								
08-101 ELECTRICAL ROOM	PT-CB	PT-CB	-	-	CONC	VB	PC	
08-102 PUMP ROOM	-	-	PT-CMU	PT-CMU	CONC	VB	PC	
<b>ADMINISTRATION BUILDING - FIRST FLOOR A09</b>								
09-101 CONFERENCE ROOM	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-102 ELEVATOR MACHINE ROOM	PT-CMU	PT-CMU	PT-CMU	PT-GYP	CH	-	PT-STLD	
09-103 STAIR NO. 1	PT-GYP	-	-	PT-GYP	CFT-1	-	-	
09-104 CORRIDOR	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CFT-1	CTB	APC-1	
09-105 RECORDS STORAGE	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-106 CLOSET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-107 RECEPTIONIST	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-108 MAIL AND COPY	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-109 CORRIDOR	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CFT-1	CTB	APC-1	
09-110 STAIR NO. 2	PT-CONC	PT-CONC	PT-CONC	PT-CONC	RSF	-	-	
09-111 LUNCH ROOM	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-112 CORRIDOR	-	PT-GYP	PT-GYP	PT-GYP	CFT-1	CTB	APC-1	
09-113 JANITOR'S CLOSET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-114 MEN'S TOILET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CFT-2	CTB	APC-1	
09-115 WOMEN'S TOILET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CFT-2	CTB	APC-1	
09-116 WAITING	PT-GYP	PT-GYP	PT-GYP	-	CFT-1	CTB	APC-1	
09-117 VESTIBULE	-	-	-	-	CFT-1	CTB	APC-1	
09-118 SHIFT SUP. OFFICE	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-119 WATER UTILITY TECH OFFICE	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-120 CONTROL ROOM	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-121 CORRIDOR	PT-GYP	PT-GYP	PT-GYP	-	CFT-1	CTB	APC-1	
09-122 WOMEN'S UNIFORM AREA	PT-GYP	PT-CMU	PT-CMU	PT-CMU	FSS	CTB	APC-1	
09-123 WOMEN'S TOILET	PT-GYP	PT-CMU	PT-CMU	PT-GYP	FSS	CTB	APC-1	
09-124 WOMEN'S SHOWERS	PT-CMU	PT-CMU	PT-CMU	PT-CMU	FSS	CTB	CT	
09-125 WOMEN'S LOCKERS	PT-CMU	CWT	CWT	CWT	FSS	CTB	APC-1	
09-126 WOMEN'S MUD ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	FSS	CTB	APC-1	
09-127 MEN'S MUD ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	FSS	CTB	APC-1	
09-128 MEN'S UNIFORM AREA	PT-CMU	PT-CMU	PT-CMU	PT-CMU	FSS	CTB	APC-1	
09-129 MEN'S TOILET	PT-GYP	PT-CMU	PT-CMU	PT-GYP	FSS	CTB	APC-1	
09-130 MEN'S SHOWERS	CWT	CWT	CWT	CWT	CFT-2	CTB	CT	
09-131 MEN'S LOCKERS	PT-CMU	PT-CMU	PT-CMU	PT-CMU	FSS	CTB	APC-1	

**ROOM FINISH SCHEDULE**

ROOM NUMBER AND ROOM NAME	WALL				FLOOR	BASE	CEILING TYPE	REMARKS
	NORTH	EAST	SOUTH	WEST				
09-132 STAIR NO. 3	PT-CONC	PT-CONC	PT-CONC	PT-CONC	FSS	-	-	
09-133 CORRIDOR	PT-CMU	PT-CMU	PT-CMU	PT-CMU	FSS	CTB	APC-1	
09-134 CORRIDOR	PT-CMU	PT-CMU	PT-CMU	PT-CMU	FSS	CTB	APC-1	
09-135 ELECTRICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PT-GYP	
09-136 LAUNDRY	PT-CMU	PT-CMU	PT-CMU	PT-CMU	RTF	VB	PT-GYP	
09-137 MECHANICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PT-GYP	
<b>ADMINISTRATION BUILDING - SECOND FLOOR A09</b>								
09-201 MEN'S TOILET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CFT-2	CTB	APC-1	
09-202 WOMEN'S TOILET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CFT-2	CTB	APC-1	
09-203 JANITOR'S CLOSET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	GYP	
09-204 STAIR NO. 2	PT-CMU	PT-CMU	PT-CMU	PT-CMU	FSS	-	APC-1	
09-205 CLOSET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-206 CONFERENCE ROOM	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-207 CORRIDOR	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-208 STAIR NO. 1	PT-GYP	-	-	PT-GYP	-	-	APC-1	
09-209 CORRIDOR	PT-GYP	PT-GYP	-	-	CP	VB	APC-1	
09-210 CLOSET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-211 DOCUMENT STORAGE	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-212 PROCESS CONTROL SYSTEM	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-213 NETWORK/TELEPHONE ROOM	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-214 CORRIDOR	PT-GYP	-	PT-GYP	-	CP	VB	APC-1	
09-215 OPEN WORK AREA	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-216 CADD PLOTTER ROOM	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-217 CORRIDOR	-	PT-GYP	-	PT-GYP	CP	VB	APC-1	
09-218 COPY SUPPLY ROOM	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-219 SECURE DOCUMENT STORAGE ROOM	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-220 CORRIDOR	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-221 COFFEE	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
09-222 ADMIN SUPPORT OFFICE	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-223 MANAGER'S OFFICE	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-224 ASSISTANT MANAGER'S OFFICE	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-225 CONTRACT PROJ. SERVICES	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-226 SENIOR UTILITIES ENGINEER'S OFFICE	PT-GYP	PT-GYP	PT-GYP	PT-GYP	CP	VB	APC-1	
09-227 STAIR NO. 3	PT-CMU	PT-CMU	PT-CMU	PT-CMU	FSS	-	APC-1	
09-228 ELECTRICAL CLOSET	PT-GYP	PT-GYP	PT-GYP	PT-GYP	RTF	VB	APC-1	
<b>CENTRAL ELECTRICAL BUILDING A11</b>								
11-101 PRIMARY SWITCHGEAR ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
11-102 GENERATOR ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	
11-103 ELECTRICAL ROOM	PT-CMU	PT-CMU	PT-CMU	PT-CMU	CH	-	PC	

**FINISH LEGEND**

<b>FLOORING</b>	
CFT-1	CERAMIC FLOOR TILE TYPE 1
CFT-2	CERAMIC FLOOR TILE TYPE 2
CH	CONCRETE WITH HARDENER
CONC	EXPOSED CONCRETE
CP	CARPET
CRCT	CHEMICAL RESISTANT CONCRETE TOPPING
RSF	RESINOUS FLOORING
HDCT	HEAVY DUTY CONCRETE TOPPING
FSS	FLOOR SURFACING SYSTEM
<b>WALLS</b>	
CMU	UNPAINTED CONCRETE MASONRY UNITS
CONC	EXPOSED CONCRETE
CWT	CERAMIC WALL TILE ON TILE BACKING GYPSUM BOARD
GF-CMU	GROUND FACE CONCRETE MASONRY UNIT
PT-CMU	PAINTED CONCRETE MASONRY
PT-CONC	PAINTED CONCRETE
PT-GYP	PAINTED GYPSUM WALLBOARD
PT-CB	PAINTED CEMENT BOARD
SA-CMU	SLOTTED ACOUSTICAL CONCRETE MASONRY UNITS
<b>BASE</b>	
CP	CARPET
CTB	CERAMIC TILE
EPX	EPOXY FLUID APPLIED
VB	VINYL BASE
<b>CEILING</b>	
APC-1	ACOUSTICAL PANEL TYPE 1
APC-2	ACOUSTICAL PANEL TYPE 2
CONC	EXPOSED CONCRETE
CTC	CERAMIC TILE ON MOISTURE RESISTANT GYPSUM WB
GYP	GYPSUM WALLBOARD
PT-GYP	PAINTED GYPSUM WALLBOARD FINISHED AND PAINTED
PT-STLD	PAINTED STEEL DECK
PC	EXPOSED PRECAST CONCRETE

**NOTES:**

- THE FINISH LEGEND LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECT. THEREFORE NOT ALL THE FINISH LEGENDS CONTAINED IN THE LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT.
- INSTALL ACOUSTICAL TREATMENT PANELS ON WALLS AND ON CEILINGS. REFER TO SPECIFICATION SECTION 09520.

User: Avanzini, Spec: PIRNIE, STANDARD File: I:\CAD\3185004\_235-A1.DWG Scale: 1:1 Date: 12/07/2011 Time: 10:20 Layout: A00-09



BID SET  
NOVEMBER 2011

REVISIONS				
NO.	BY	DATE	DESCRIPTION	REMARKS
1	MA	12/7/11	ADDENDUM 2	

DES SRZ  
DWN CSR  
CHK FJB

CITY OF ANN ARBOR, MICHIGAN  
**ANN ARBOR WASTEWATER TREATMENT  
PLANT FACILITIES RENOVATIONS**

ARCHITECTURAL  
**FINISH SCHEDULE**

SCALE: NO SCALE

ISSUED STATUS:	BID SET
DATE	NOVEMBER 2011
SHEET	A00-09
CAD REF. NO.	3185004_235

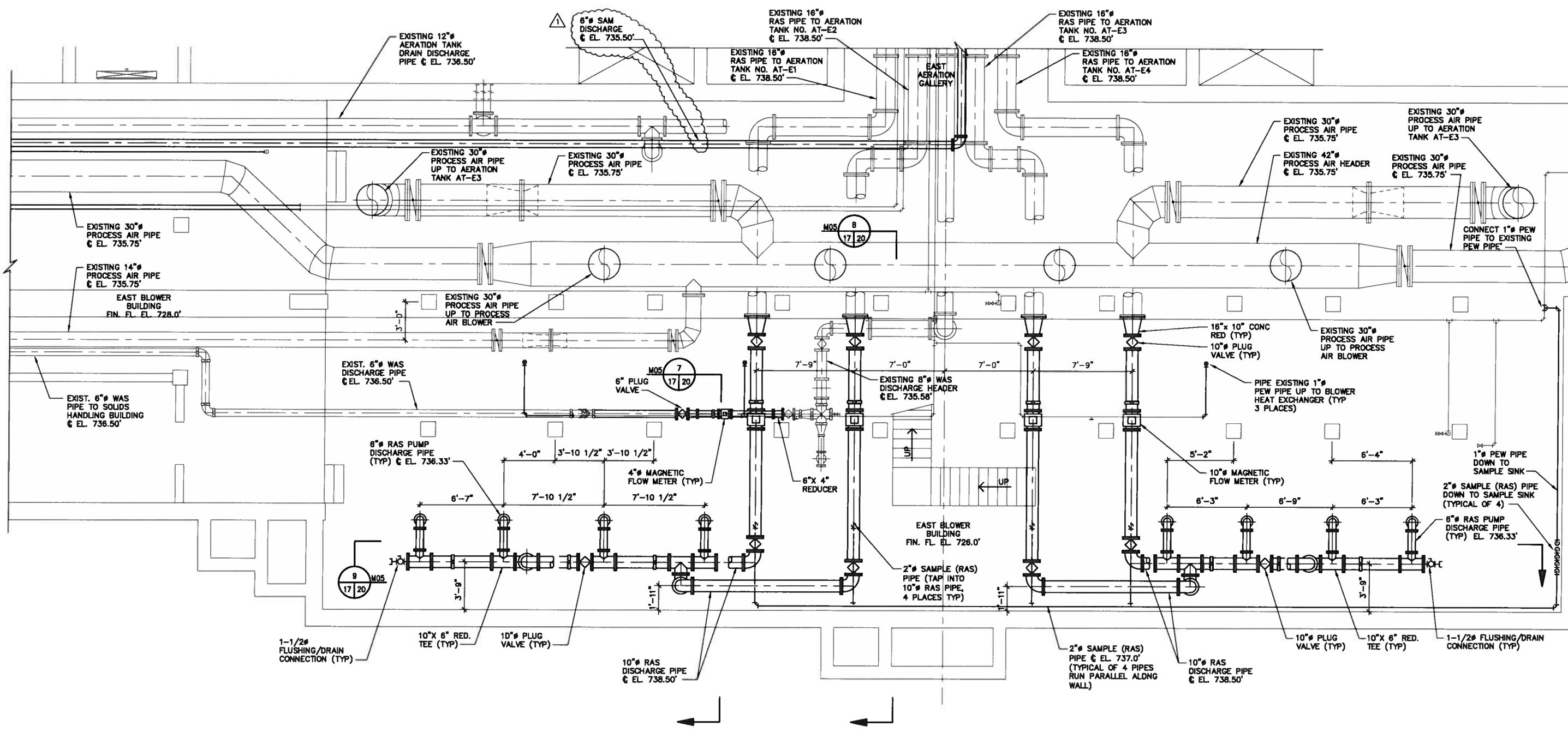
User: Ann Arbor Spec: PIRNIE STANDARD File: L:\ACAD\185004 - Ann Arbor Facilities Renovations\Arch\185004\_236 - A1.DWG Scale: 1:1 Date: 12/07/2011 Time: 10:24 Layout: A00-10

DOOR SCHEDULE													
DOOR NO.	ROUGH OPNG		DOOR NOMINAL SIZE		TYPE	MATERIAL	DETAILS		FRAME		HARDWARE SET	U.L. LABEL	REMARKS
	WIDTH	HEIGHT	WIDTH	HEIGHT			HEAD	JAMB	TYPE	MATL			
<b>RAW SEWAGE LIFT STATION A03</b>													
101-1	3'-4"	9'-4"	3'-0"	7'-2"	A	FRP	K	E	F	FRP	1	90	
101-2	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	M	J	A	FRP	1	-	
103-1	3'-4"	9'-4"	3'-0"	7'-2"	A	FRP	K	E	F	FRP	1	-	
<b>RAW SEWAGE LIFT STATION ELECTRICAL BUILDING A03</b>													
101-1	6'-4"	9'-4"	(2) 3'-0"	(2) 7'-2"	A	FRP	P	B	C	FRP	2	-	
101-2	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	B	B	A	FRP	1	-	
102-1	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	B	B	A	FRP	3	-	
<b>EAST PRIMARY BUILDING A04</b>													
101-1	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	M	M	A	FRP	3	-	
101-2	6'-4"	9'-4"	(2) 3'-0"	(2) 7'-2"	A	FRP	L	L	B	FRP	7	-	FIELD VERIFY
102-1	6'-4"	9'-4"	(2) 3'-0"	(2) 7'-2"	A	FRP	O	K	C	FRP	7	90	
<b>EAST BLOWER / ELECTRICAL BUILDING A05</b>													
101-1	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	L	L	A	FRP	3	-	FIELD VERIFY
103-1	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	N	N	B	FRP	4	-	
104-1	8'-0"	10'-0"	(2) 4'-0"	(2) 9'-10"	A	FRP	L	L	B	FRP	2	-	FIELD VERIFY
104-2	6'-4"	7'-4"	(2) 3'-0"	(2) 7'-2"	A	FRP	L	L	B	FRP	7	90	FIELD VERIFY
105-1	3'-4"	9'-4"	3'-0"	7'-2"	A	FRP	N	N	B	FRP	5	90	
<b>EAST FERRIC BUILDING A05</b>													
101-1	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	3	-	
<b>WEST PRIMARY BUILDING A06</b>													
101-1	6'-4"	7'-4"	(2) 3'-0"	(2) 7'-2"	A	FRP	Q	C	B	FRP	9	-	
101-2	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	3	-	
102-1	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	E	E	A	FRP	5	90	
102-2	6'-4"	7'-4"	(2) 3'-0"	(2) 7'-2"	B	FRP	C	C	B	FRP	2	-	
103-1	6'-4"	7'-4"	(2) 3'-0"	(2) 7'-2"	A	FRP	E	E	B	FRP	10	-	
104-1	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	E	E	A	FRP	8	60	
104-2	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	3	-	
104-3	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	F	F	A	FRP	8	60	
<b>WEST BLOWER BUILDING A07</b>													
101-1	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	3	-	
101-2	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	3	-	
101-3	8'-0"	14'-0"	(2) 3'-10"	13'-10"	E	FRP	Q	C	G	FRP	11	-	Monorail Door
102-1	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	1	-	
102-2	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	E	E	A	FRP	5	90	
103-1	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	3	-	
103-2	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	E	E	A	FRP	8	60	
103-3	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	F	F	A	FRP	8	60	
104-1	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	E	E	A	FRP	8	-	
104-2	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	E	E	A	FRP	8	-	
105-1	6'-4"	7'-4"	(2) 3'-0"	(2) 7'-2"	B	FRP	C	C	B	FRP	12	-	
106-1	6'-4"	7'-4"	(2) 3'-0"	(2) 7'-2"	B	FRP	C	C	B	FRP	2	-	
106-2	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	2	-	
<b>WEST FERRIC BUILDING A07</b>													
101-1	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	C	C	A	FRP	3	-	
<b>FLOW EQUALIZATION AND RETENTION BUILDING A08</b>													
101-1	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	N	K	A	FRP	5	90	
101-2	6'-4"	9'-4"	(2) 3'-0"	(2) 7'-2"	A	FRP	O	K	C	FRP	7	90	
101-3	3'-4"	7'-4"	3'-0"	7'-2"	A	FRP	N	K	A	FRP	5	90	
<b>ADMINISTRATION BUILDING - FIRST FLOOR A09</b>													
101-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
102-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	13	60	
105-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	13	-	
106-1	8'-0"	7'-4"	(2) 2'-6"	(2) 7'-2"	D	WD	H	H	B	-	-	-	SLIDING DOOR
107-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
108-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
110-1	3'-4"	8'-8"	3'-0"	8'-6"	A	ALUM	A	A	A	ALUM	1	-	
110-2	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	F	F	A	HM	8	60	
111-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
112-1	3'-4"	8'-8"	3'-0"	8'-6"	B	ALUM	A	A	A	ALUM	1	-	
113-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	13	-	
114-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	14	-	
115-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	14	-	
116-1	6'-4"	8'-8"	(2) 3'-0"	(2) 8'-6"	C	ALUM	I	I	-	ALUM	17	-	STOREFRONT
117-1	6'-4"	8'-8"	(2) 3'-0"	(2) 8'-6"	C	ALUM	I	I	-	ALUM	17	-	STOREFRONT
118-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
119-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
120-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
120-2	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
121-1	3'-4"	7'-4"	3'-0"	7'-2"	A	HM	R	M	A	HM	16	-	
123-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	14	-	
129-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	14	-	
132-1	3'-4"	7'-4"	3'-0"	7'-2"	A	HM	R	N	A	HM	-	60	

DOOR NO.	ROUGH OPNG		DOOR NOMINAL SIZE		TYPE	MATERIAL	DETAILS		FRAME		HARDWARE SET	U.L. LABEL	REMARKS
	WIDTH	HEIGHT	WIDTH	HEIGHT			HEAD	JAMB	TYPE	MATL			
133-1	3'-4"	7'-4"	3'-0"	7'-2"	A	HM	D	D	A	HM	8	60	
133-2	3'-4"	8'-8"	3'-0"	8'-6"	A	ALUM	A	A	A	ALUM	1	-	
134-1	5'-0"	8'-8"	3'-0"	8'-6"	C	ALUM	A	A&I	E	ALUM	1	-	
135-1	3'-4"	7'-4"	3'-0"	7'-2"	A	HM	D	D	A	HM	13	90	
135-2	3'-4"	8'-8"	3'-0"	8'-6"	A	ALUM	A	A	A	ALUM	1	-	
136-1	3'-4"	7'-4"	3'-0"	7'-2"	A	HM	D	D	A	HM	8	-	
137-1	3'-4"	7'-4"	3'-0"	7'-2"	A	HM	D	D	A	HM	13	-	
<b>ADMINISTRATION BUILDING - SECOND FLOOR A09</b>													
201-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	14	-	
202-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	14	-	
203-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	13	-	
204-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	D	D	A	HM	8	60	
205-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	13	-	
206-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
206-2	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
206-2	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
210-1	5'-10"	7'-4"	(2) 3'-0"	(2) 7'-2"	D	WD	H	H	B	-	-	-	SLIDING DOOR
211-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	13	-	
212-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
212-2	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
213-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
216-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
218-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
219-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	13	-	
221-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
221-2	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	8	-	
222-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
223-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
224-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
225-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
226-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	G	G	A	HM	15	-	
227-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	D	D	A	HM	8	60	
227-1	3'-4"	7'-4"	3'-0"	7'-2"	A	WD	D	D	A	HM	8	90	
<b>CENTRAL ELECTRICAL BUILDING A11</b>													
101-1	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	1	-	
101-2	3'-4"	7'-4"	3'-0"	7'-2"	B	FRP	C	C	A	FRP	1	-	
101-3	6'-4"	9'-4"	(2) 3'-0"	(2) 7'-2"	A	FRP	K	K	C	FRP	7	90	
101-4	8'-0"	12'-0"	(2) 3'-10"	(2) 11'-10"	A	FRP	C	C	B	FRP	11	-	
102-1	6'-4"	7'-4"	(2) 3'-0"	(2) 7'-2"	B	FRP	C	C	B	FRP	12	-	
103-1	3'-4"	7'-4"	3'-0"										







RAS/WAS PIPING - PLAN AT ELEV. 740.0'

XREFS: \\VREF\SCHEMATIC\1185004\_118-A1.DWG Scale: 1:1 Date: 12/07/2011 Time: 09:57 Layout: M05-19  
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BID SET  
NOVEMBER 2011

NO.		BY	DATE	REVISIONS	REMARKS
1	MA	12/7/11	ADDENDUM 2		

DES: ABG  
DWN: MA  
CRD: TFL

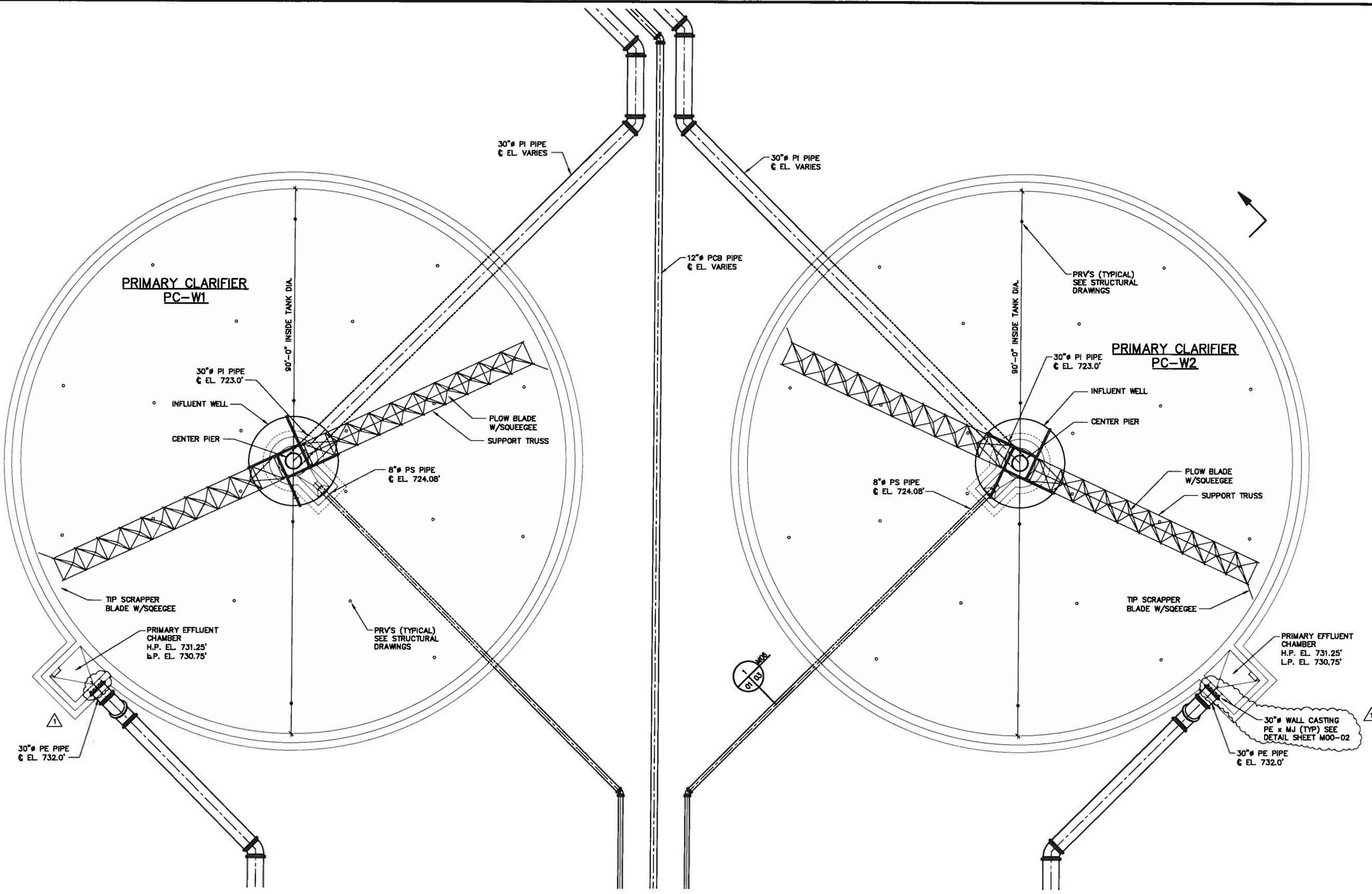
CITY OF ANN ARBOR, MICHIGAN  
**ANN ARBOR WASTEWATER TREATMENT  
PLANT FACILITIES RENOVATIONS**

EAST BLOWER BUILDING  
**BASEMENT  
UPPER PIPING PLAN**  
SCALE: 1/4" = 1'-0"

ISSUED STATUS: BID SET  
DATE: NOVEMBER 2011  
SHEET: M05-19  
CAD REF. NO. 3185004\_118







WEST PRIMARY CLARIFIER LOWER PLAN



BID SET  
NOVEMBER 2011

NO.		BY	DATE	REVISIONS	REMARKS

DES ABG  
DWN MA  
CRD TFL

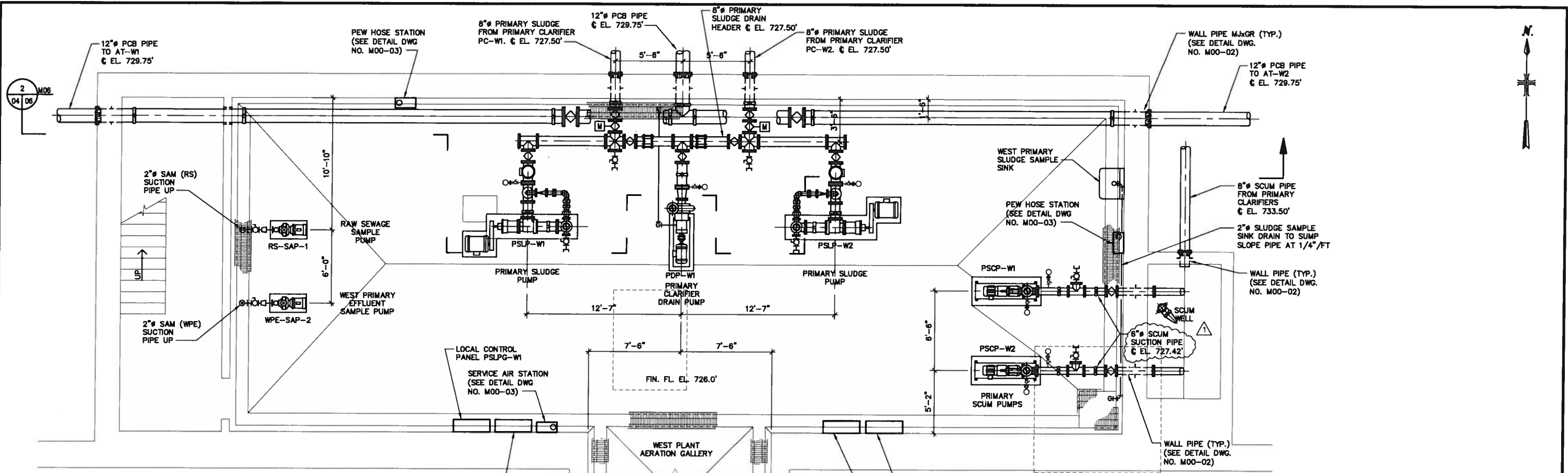
CITY OF ANN ARBOR, MICHIGAN  
**ANN ARBOR WASTEWATER TREATMENT  
PLANT FACILITIES RENOVATIONS**

**WEST PRIMARY CLARIFIERS  
LOWER PLAN**

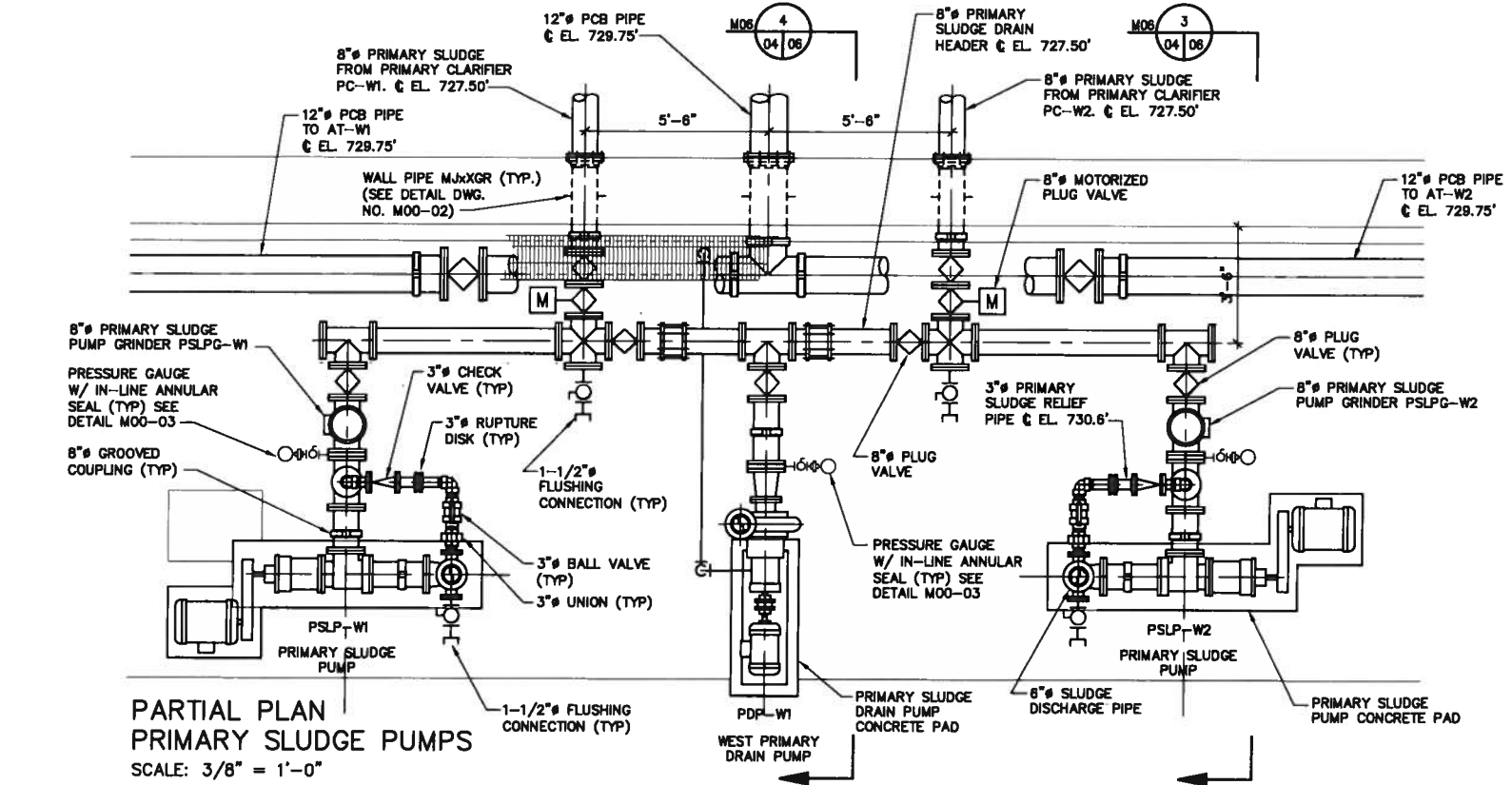
SCALE: 1/8" = 1'-0"

ISSUED STATUS: BID SET  
DATE: NOVEMBER 2011  
SHEET: M06-01  
CAD REF. NO. 3185004\_103

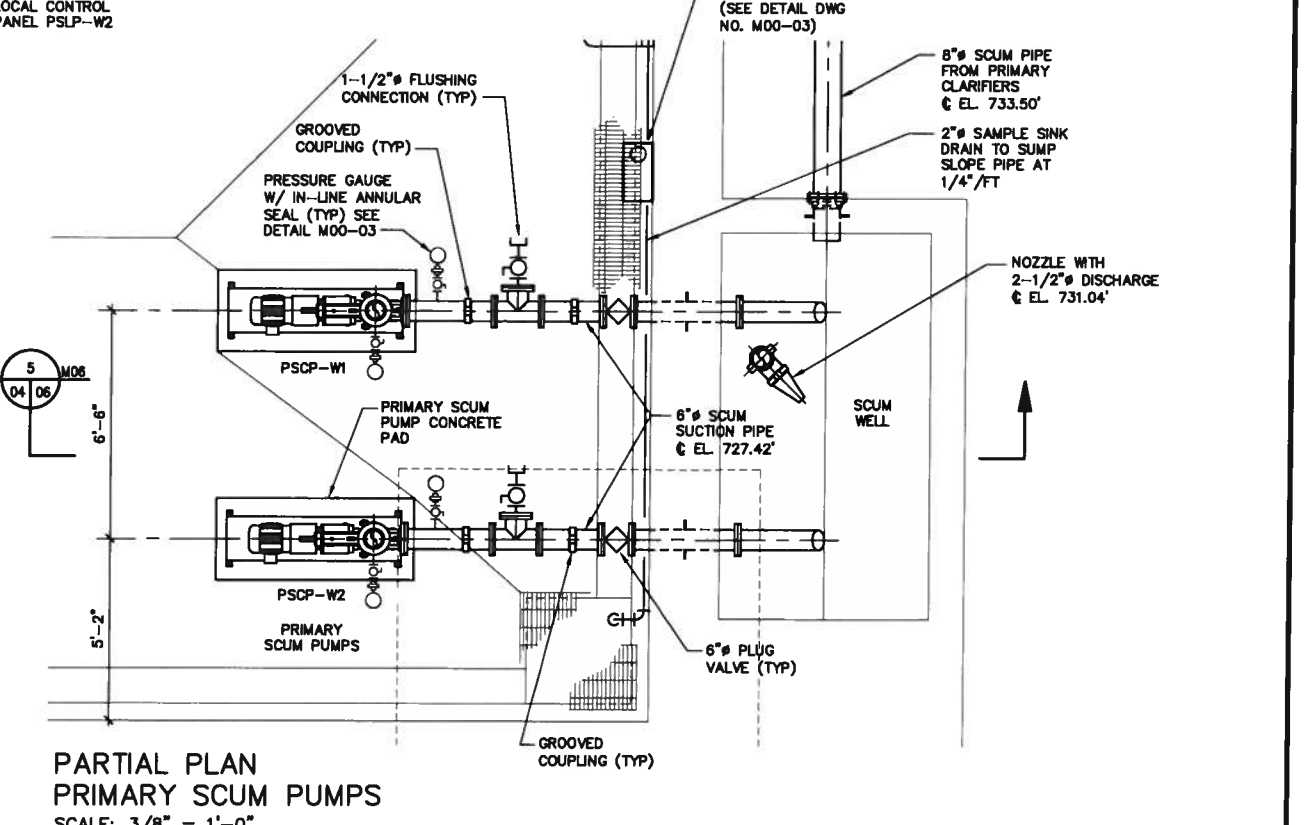
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**BASEMENT LOWER PIPING PLAN**  
SCALE: 1/4" = 1'-0"



**PARTIAL PLAN PRIMARY SLUDGE PUMPS**  
SCALE: 3/8" = 1'-0"



**PARTIAL PLAN PRIMARY SCUM PUMPS**  
SCALE: 3/8" = 1'-0"



BID SET  
NOVEMBER 2011

NO.		BY	DATE	REVISIONS
1	MA	MA	12/7/11	ADDENDUM 2

DES: ABG  
DWN: MA  
CRD: TFL

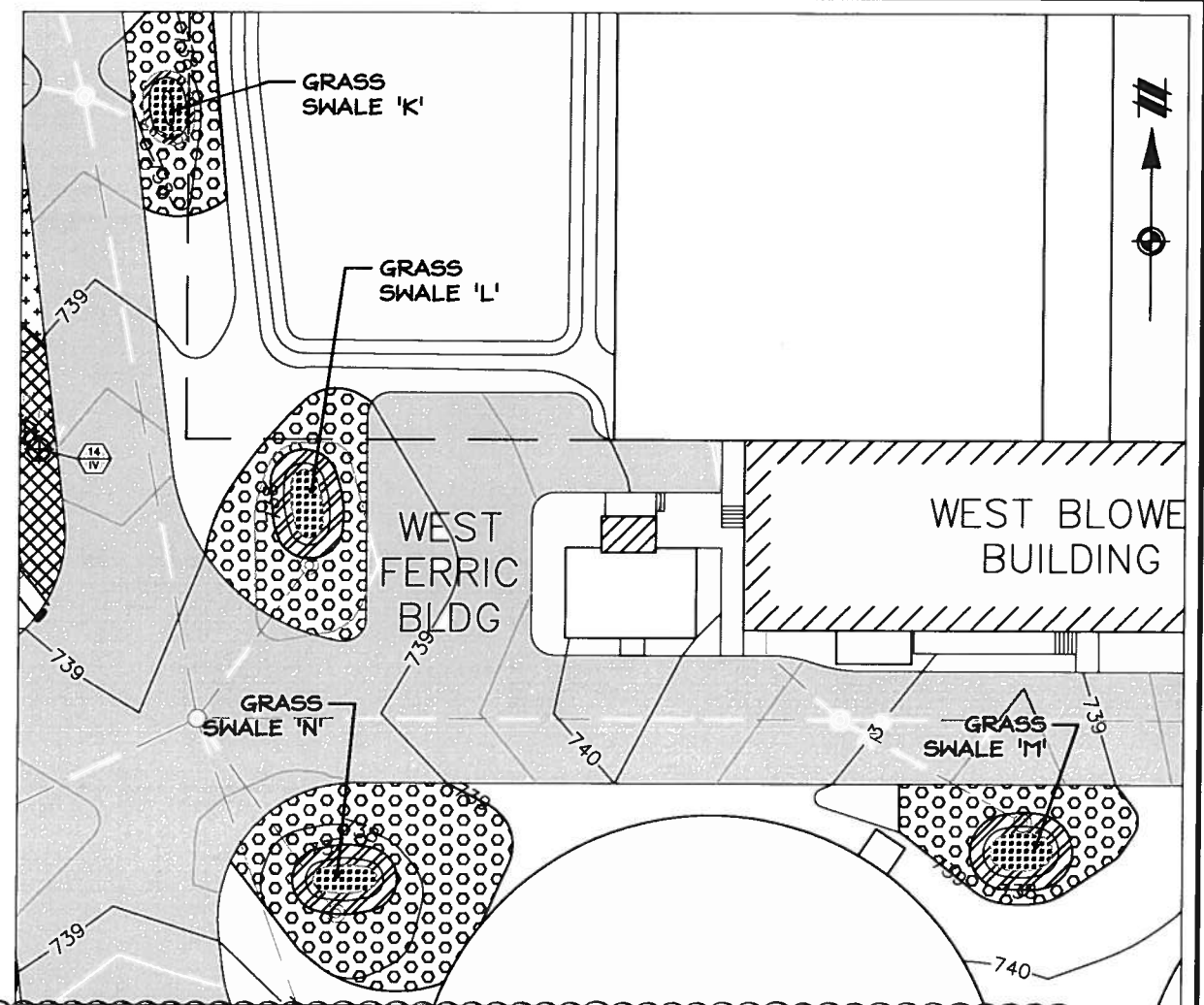
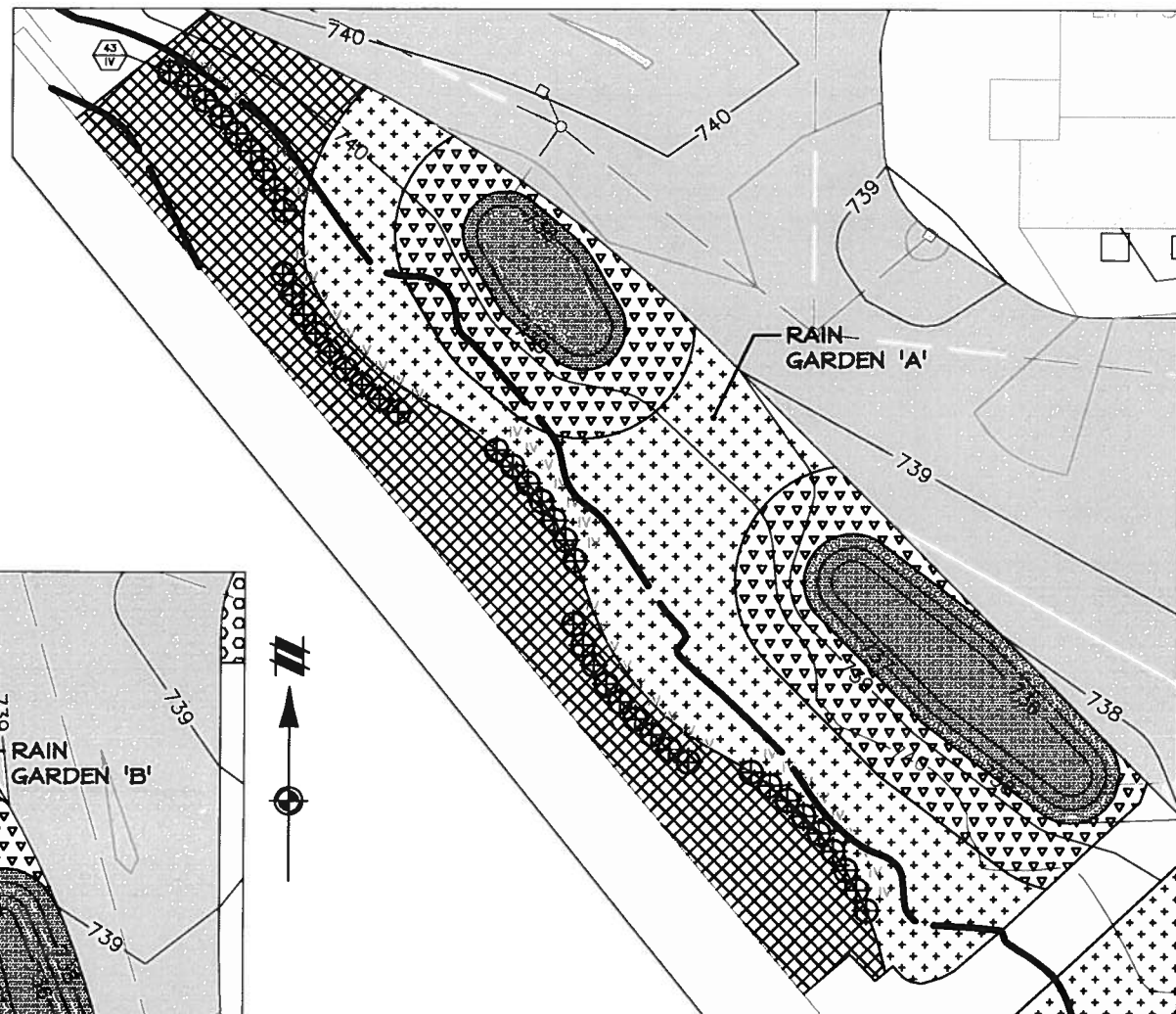
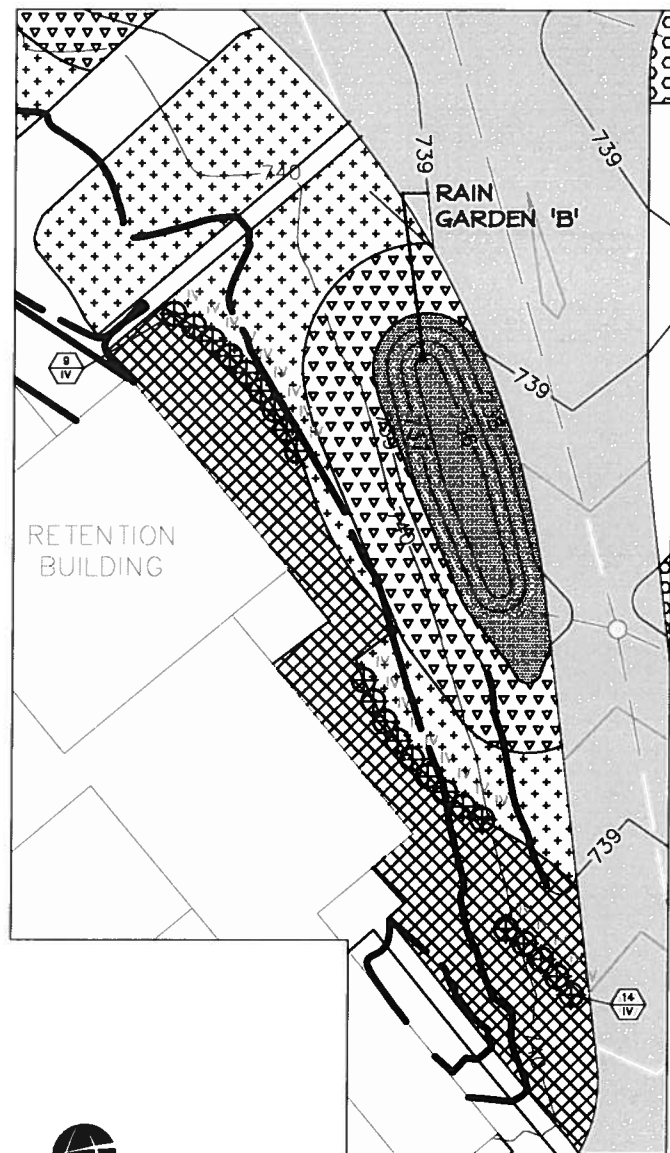
CITY OF ANN ARBOR, MICHIGAN  
**ANN ARBOR WASTEWATER TREATMENT  
PLANT FACILITIES RENOVATIONS**

WEST PRIMARY BUILDING  
**BASEMENT - LOWER PIPING PLAN**  
SCALE: AS SHOWN

ISSUED STATUS: BID SET  
DATE: NOVEMBER 2011  
SHEET: M06-04  
CAD REF. NO. 3185004\_135

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**LEGEND**

- PAVEMENT
- RAIN GARDENS**
- PLANTING ZONE C: 0"-2" ABOVE WATER LEVEL
- PLANTING ZONE D: 2"-4" ABOVE WATER LEVEL
- PLANTING ZONE E: 4"-18" ABOVE WATER LEVEL
- PLANTING ZONE F: 18"+ ABOVE WATER LEVEL
- GRASS SWALES**
- BIG BLUESTEM
- LITTLE BLUESTEM
- TRANSITION AREA: SWITCH GRASS

NOTE: REFER TO SHEET C01-24 FOR EXISTING TREES TO BE REMOVED.

**PLANT SCHEDULE**

KEY	QTY.	SPECIES	MIN. SIZE	SPEC.	KEY	QTY.	SPECIES	MIN. SIZE	SPEC.
IV	66	ILEX VERTICILLATA WINTERBERRY	24"-30" HT.	B&B	PYV	1,070	PTICANTHEMUM VIRGINIANUM MOUNTAIN MINT	2"	PLUGS CONT.
<b>PLANTING ZONE C - RAIN GARDEN 'A': ±3,040 PLANTS; RAIN GARDEN 'B': ±1,790 PLANTS</b>									
EA	966	ELEOCHARIS ACICULARIS REEDS	2"	PLUGS CONT.	RH	1,071	RUBROCOCA HIRTA BLACK-EYED SUSAN	2"	PLUGS CONT.
IRV	966	IRIS VIRGINICA BLUE FLAG IRIS	2"	PLUGS CONT.	SN	1,070	SORGHASTRUM INDIAN GRASS	2"	PLUGS CONT.
LM	966	LILIUM MOHAWKENSE MORGAN LILY	2"	PLUGS CONT.	SS	1,071	SCHIZACHYRIUM SCOPARUM LITTLE BLUESTEM	2"	PLUGS CONT.
LS	966	LOBELIA SIPHILITICA GREAT BLUE LOBELIA	2"	PLUGS CONT.	VD	1,071	VIORUM DENTATUM ARROWWOOD	2"	PLUGS CONT.
PYV	966	PTICANTHEMUM VIRGINIANUM MOUNTAIN MINT	2"	PLUGS CONT.	<b>PLANTING ZONE F - RAIN GARDEN 'A': ±6,828 PLANTS; RAIN GARDEN 'B': ±4,192 PLANTS</b>				
<b>PLANTING ZONE D - RAIN GARDEN 'A': ±4,320 PLANTS; RAIN GARDEN 'B': ±2,222 PLANTS</b>									
CV	467	CAREX LASIOPHYLLA BROWN FOX SEDGE	2"	PLUGS CONT.	AG	1,390	ANDROPOGON GERARDI BIG BLUESTEM	2"	PLUGS CONT.
EG	467	ELYMUS SPANISHWALL GRASS-LEAVED GOLDENROD	2"	PLUGS CONT.	AT	1,390	ASOPHRAS TUBEROSA BUTTERFLY MILKWEED	2"	PLUGS CONT.
EP	468	EUPATORIUM PERFOLIATUM BOCESH	2"	PLUGS CONT.	MF	1,390	MONARDA FISTULOSA WILD BERGAMOT	2"	PLUGS CONT.
EY	467	ELYMUS VIRGINICUS VIRGINIA WILD RYE	2"	PLUGS CONT.	PV	1,390	PANICUM VIRGATUM SWITCH GRASS	2"	PLUGS CONT.
IRV	467	IRIS VIRGINICA BLUE FLAG IRIS	2"	PLUGS CONT.	RH	1,390	RUBROCOCA HIRTA BLACK-EYED SUSAN	2"	PLUGS CONT.
LC	468	LOBELIA CARDINALIS RED LOBELIA	2"	PLUGS CONT.	SN	1,390	SORGHASTRUM INDIAN GRASS	2"	PLUGS CONT.
LM	467	LILIUM MOHAWKENSE MORGAN LILY	2"	PLUGS CONT.	SS	1,390	SCHIZACHYRIUM SCOPARUM LITTLE BLUESTEM	2"	PLUGS CONT.
LP	467	LATRIS PYNOSTACHYA PRAIRIE BLAZING STAR	2"	PLUGS CONT.	VD	1,390	VIORUM DENTATUM ARROWWOOD	2"	PLUGS CONT.
MF	468	MONARDA FISTULOSA WILD BERGAMOT	2"	PLUGS CONT.	<b>GRASS SWALE 'K'</b>				
PV	467	PANICUM VIRGATUM SWITCH GRASS	2"	PLUGS CONT.	AG	105	ANDROPOGON GERARDI BIG BLUESTEM	2"	PLUGS CONT.
PYV	467	PTICANTHEMUM VIRGINIANUM MOUNTAIN MINT	2"	PLUGS CONT.	PV	804	PANICUM VIRGATUM SWITCH GRASS	2"	PLUGS CONT.
RP	468	ROSA PALUSTRIS SWAMP ROSE	2"	PLUGS CONT.	SS	89	SCHIZACHYRIUM SCOPARUM LITTLE BLUESTEM	2"	PLUGS CONT.
VD	467	VIORUM DENTATUM ARROWWOOD	2"	PLUGS CONT.	<b>GRASS SWALE 'L'</b>				
WH	467	WHEATGRASS BLUE WHEATGRASS	2"	PLUGS CONT.	AG	99	ANDROPOGON GERARDI BIG BLUESTEM	2"	PLUGS CONT.
<b>PLANTING ZONE E - RAIN GARDEN 'A': ±8,878 PLANTS; RAIN GARDEN 'B': ±4,898 PLANTS</b>									
AG	1,070	ANDROPOGON GERARDI BIG BLUESTEM	2"	PLUGS CONT.	PV	1,281	PANICUM VIRGATUM SWITCH GRASS	2"	PLUGS CONT.
AT	1,071	ASOPHRAS TUBEROSA BUTTERFLY MILKWEED	2"	PLUGS CONT.	SS	253	SCHIZACHYRIUM SCOPARUM LITTLE BLUESTEM	2"	PLUGS CONT.
EV	1,070	ELYMUS VIRGINICUS VIRGINIA WILD RYE	2"	PLUGS CONT.	<b>GRASS SWALE 'N'</b>				
LP	1,071	LATRIS PYNOSTACHYA PRAIRIE BLAZING STAR	2"	PLUGS CONT.	AG	83	ANDROPOGON GERARDI BIG BLUESTEM	2"	PLUGS CONT.
MF	1,070	MONARDA FISTULOSA WILD BERGAMOT	2"	PLUGS CONT.	PV	2,015	PANICUM VIRGATUM SWITCH GRASS	2"	PLUGS CONT.
PV	1,071	PANICUM VIRGATUM SWITCH GRASS	2"	PLUGS CONT.	SS	244	SCHIZACHYRIUM SCOPARUM LITTLE BLUESTEM	2"	PLUGS CONT.

NOTE: ALL REMAINING DISTURBED AREAS SHALL BE SEEDED.



BID SET  
NOVEMBER 2011

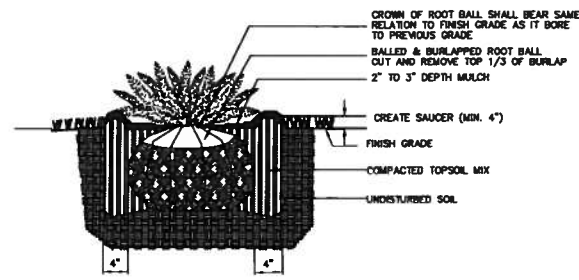
REVISIONS			
NO.	BY	DATE	REVISIONS
1	BA	12/7/11	ADDITION #

CITY OF ANN ARBOR, MICHIGAN  
**ANN ARBOR WASTEWATER TREATMENT  
PLANT FACILITIES RENOVATIONS**

CIVIL  
**DETAILED LANDSCAPE PLAN**

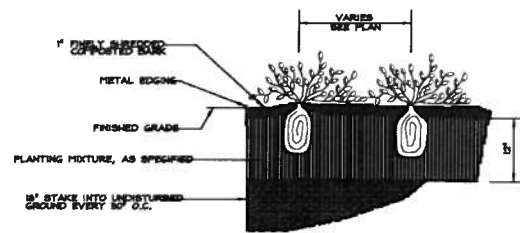
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DATE: NOVEMBER 2011  
SHEET: C01-27  
CAD REF. NO. \_\_\_\_\_

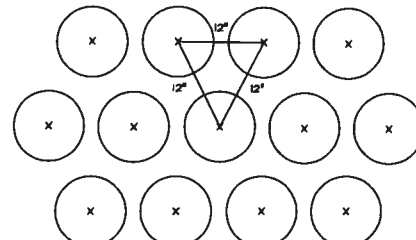


- NOTES:
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
  - WATER SHRUB THOROUGHLY SUBSEQUENT TO INSTALLATION

SHRUB PLANTING DETAIL  
NO SCALE

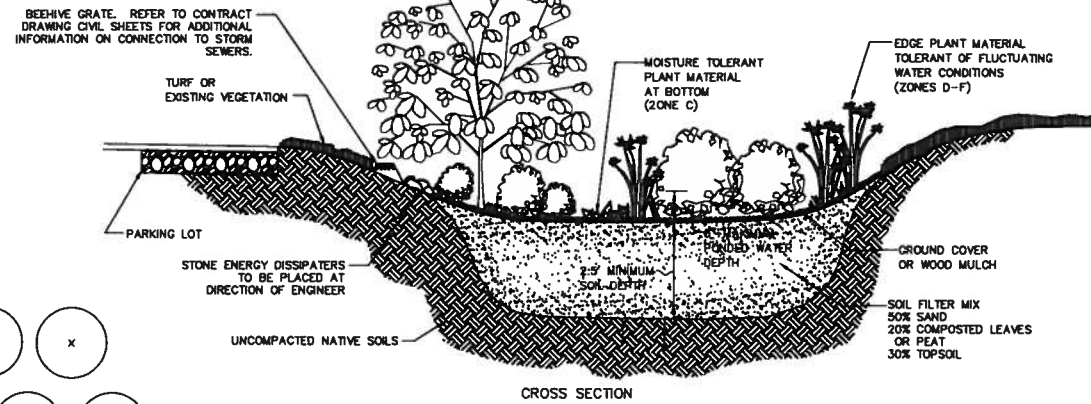


GROUNDCOVER/PERENNIAL PLANTING DETAIL  
NO SCALE

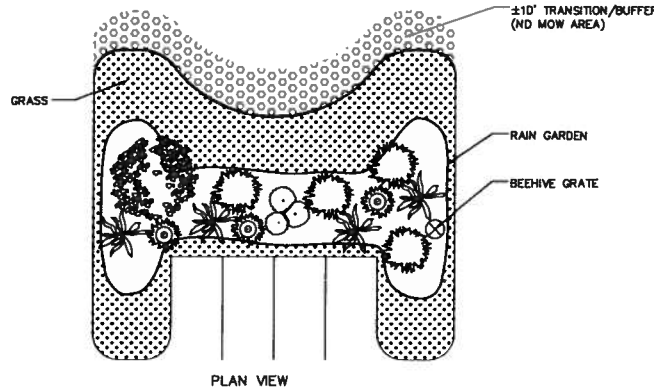


PLANTS SHALL BE SPACED 12\"/>

PLUG PLANT SPACING DETAIL  
NO SCALE



CROSS SECTION



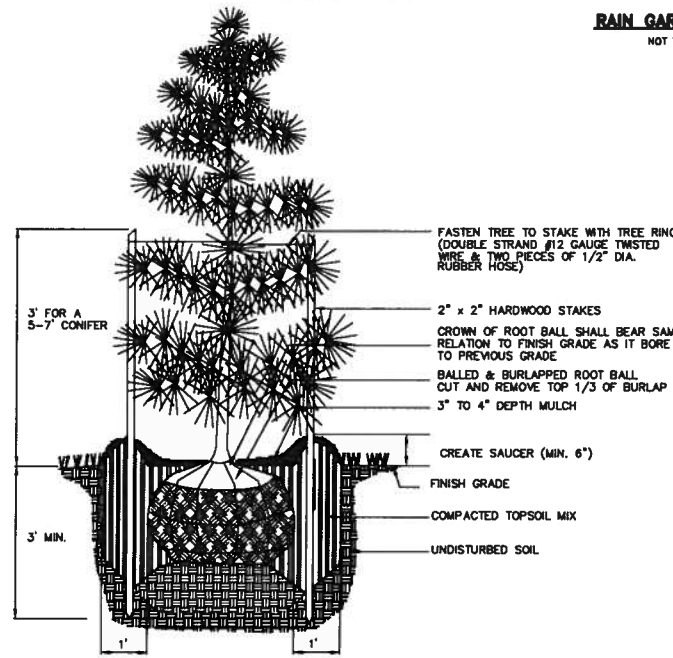
PLAN VIEW

RAIN GARDEN NOTES:

- RAIN GARDENS ARE USED TO REDUCE RUN-OFF AND HOLD STORM WATER FOR FOUR TO SIX HOURS, ALLOWING IT TO INFILTRATE INTO THE SOIL AND ACT AS FILTERS FOR IMPROVING WATER QUALITY. EXCESS STORM WATER FLOWS INTO THE STORM SEWER SYSTEM VIA CATCH BASINS. BENEFITS INCLUDE GROUNDWATER RECHARGE, WILDLIFE HABITAT, AESTHETICS, AND REDUCTION IN THE AMOUNT OF RUN-OFF.
- RAIN GARDENS SHALL BE CONSTRUCTED IN THE PRESENCE OF THE ENGINEER TO ENSURE PROPER INSTALLATION AND DRAINAGE REQUIREMENTS ARE MET.

RAIN GARDEN DETAIL

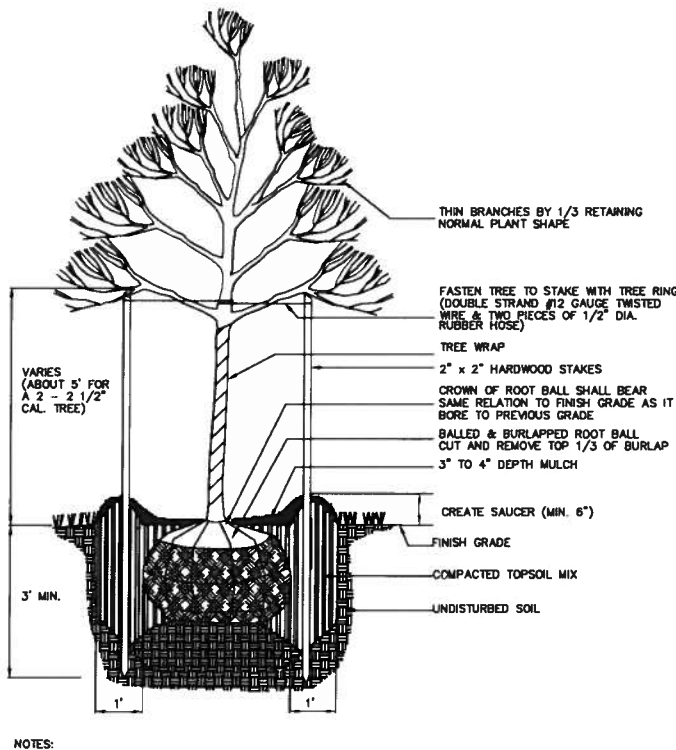
NOT TO SCALE



NOTES:

- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
- DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE
- REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION
- WATER TREE THOROUGHLY SUBSEQUENT TO INSTALLATION

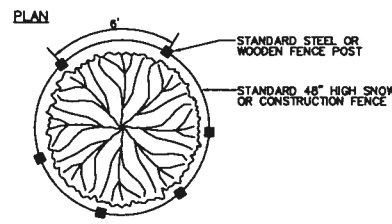
CONIFEROUS TREE PLANTING DETAIL  
NO SCALE



NOTES:

- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
- DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE
- REMOVE TREE RINGS, TREE WRAP AND STAKES TWO YEARS AFTER INSTALLATION
- WATER TREE THOROUGHLY SUBSEQUENT TO INSTALLATION

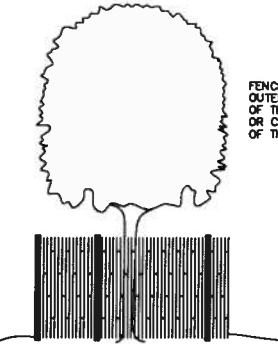
DECIDUOUS TREE PLANTING DETAIL  
BALLED AND BURLAPPED  
NO SCALE



TREE PROTECTION NOTES:

- ALL TREES TO BE REMOVED WILL BE IDENTIFIED BY RED FLAGGING.
- TREE PROTECTION FENCING IS TO BE ERRECTED PRIOR TO ANY EARTHWORK OR CONSTRUCTION AND IS TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
- ALL DEBRIS, FILL, EQUIPMENT OR MATERIAL IS TO BE KEPT CLEAR OF AREA WITH PROTECTIVE FENCE. NO CLEANING OF EQUIPMENT OR MATERIAL OR STORAGE OR DISPOSAL OF ANY MATERIAL WITHIN THE DRP LINE OF ANY TREES TO BE SAVED.

ELEVATION



TREE PROTECTION FENCE DETAIL  
NO SCALE

LANDSCAPE NOTES

- THIS PLAN IS FOR PLANTING LOCATIONS ONLY.
- IN CASE OF A DISCREPANCY BETWEEN THE PLAN AND PLANT LIST, THE NUMBER OF SYMBOLS ON THE PLAN SHALL TAKE PRECEDENCE.
- SIZES SPECIFIED ARE MINIMUM PLANT SIZES THAT ARE TO BE INSTALLED.
- ALL LANDSCAPING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH TOWNSHIP STANDARDS AND IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS IN A NEAT, HEALTHY AND WEED FREE CONDITION. ANY DEAD, DISEASED OR DAMAGED PLANT MATERIAL IS TO BE REPLACED WITHIN ONE YEAR, OR THE NEXT APPROPRIATE PLANTING PERIOD, WHICHEVER COMES FIRST.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES. PLANT MATERIAL IS TO BE LOCATED SUCH THAT IT WILL NOT INTERFERE WITH ANY UNDERGROUND OR OVERHEAD UTILITIES.
- PLANT TREES AND SHRUBS NO CLOSER THAN THE FOLLOWING MINIMUM DISTANCES FROM SIDEWALKS, CURBS AND PARKING STALLS:
  - SHADE AND ORNAMENTAL TREES: 5 FEET
  - EVERGREEN TREES: 10 FEET
  - SHRUBS: 4 FEET
- NO PLANT MATERIAL IS TO BE PLANTED CLOSER THAN 4 FEET FROM ANY PROPERTY LINE.
- PLANT TREES AND SHRUBS AT THE SAME GRADE LEVEL AT WHICH THEY WERE GROWN AT THE NURSERY. IF HEAVY CLAY SOILS ARE EVIDENT, PLANT TREES AND SHRUBS HIGHER, APPROXIMATELY 1/3 OF THE ROOT BALL ABOVE THE GRADE.
- REMOVE ALL TWIG, WIRE, NURSERY TREE GUARDS, TAGS AND INORGANIC MATERIAL FROM ROOT BALLS. PEEL BACK THE TOP 1/3 OF BURLAP FROM EARTH BALLS AND REMOVE ANY BURLAP AROUND TREE TRUNKS.
- ALL LANDSCAPE AREAS SHALL BE EXCAVATED OF ALL BUILDING/CONSTRUCTION MATERIAL AND POOR SOILS TO A DEPTH OF 18-24\"/>

MASTER PLANT SCHEDULE

KEY	QTY.	SPECIES	MIN. SIZE	SPEC.
<b>PARKING LOT TREES (22 TREES ALSO COUNTED AS MITIGATION TREES)</b>				
AR	22	ACER RUBRUM RED MAPLE	2.5\"/>	



BID SET  
NOVEMBER 2011

REVISIONS				
NO.	BY	DATE	DESCRIPTION	REMARKS
1	MA	12/7/11	ADDENDUM 2	

DES \_\_\_\_\_  
DWN \_\_\_\_\_  
CRD \_\_\_\_\_

CITY OF ANN ARBOR, MICHIGAN  
ANN ARBOR WASTEWATER TREATMENT  
PLANT FACILITIES RENOVATIONS

CIVIL  
LANDSCAPE NOTES AND DETAILS  
NO SCALE

ISSUED STATUS: BID SET  
DATE: NOVEMBER 2011  
SHEET: C01-31  
CAD REF. NO. \_\_\_\_\_