

ADDENDUM NO.: 1  
 DATE OF CMR ADDENDUM: 2/10/14

**Notice of Construction Manager-at-Risk (CMR)  
 Addendum  
 on behalf of the  
 CT Department of Construction Services (CT DCS)**

<b>Project Name:</b>	New Academic Laboratory Building, SCSU
<b>Project Location:</b>	485 Fitch St. New Haven, CT
<b>Project Description:</b>	Bidding of work deferred (Rain Harvesting and Fire Caulking)
<b>Project Construction Budget:</b>	\$51,000,000
<b>CT DCS Project Number:</b>	BI-RS-283

The Construction Manager-at-Risk (CMR) is issuing a **Notice of CMR Addendum** for this State of CT Department of Construction Services (CT DCS) Project. Specific Addendum Information is available as noted below. If you have any questions, please contact the CMR as noted below.

**CMR Information:**

<b>CMR Firm:</b>	FIP Construction
<b>Address:</b>	308 Farmington Ave. Farmington, CT
<b>Contact Name:</b>	Jon Connors
<b>Contact Phone Number:</b>	203-271-0356
<b>Contact Email Address:</b>	ConnorsJ@fipconstruction.com

**Addendum Information is available as follows:**

<b>CMR Website and/or FTP Site:</b>	ftp.fipconstruction.com Username: SCSUBids Password: bids9415
<b>Printing Company:</b>	

Copies:  DCS Project Manager  DCS Process Management ([randy.daigle@ct.gov](mailto:randy.daigle@ct.gov))  
 DCS Process Management ([peter.babey@ct.gov](mailto:peter.babey@ct.gov))

ADDENDUM NO.: 1

DATE OF ADDENDUM: February 10, 2014

**SCSU New Academic Laboratory Building  
Southern Connecticut State University, New Haven, CT  
BI – RS – 283**

Original Bid Due Date / Time:

February 14, 2014

2:30 pm EST

Revised Bid Due Date / Time:

No Change

No Change

**TO: Prospective Bid Proposers:**

This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Bid Documents" for this Project as listed in **Bid Exhibit A, List of Documents dated January 20, 2014**. Prospective Bid Proposers shall acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Bid Proposal Forms. Failure to do so may subject Bid Proposers to disqualification.

**This Addendum consists of:**

- 1 (one) 8.5"x11" Irrigation SK-1 Drawing
- 1 (one) 11"x17" Irrigation SK-2 Drawing
- 1 (one) 8.5"x11" PM web RFI 215 response pages
- 1 (one) 8.5"x11" Rainwater Harvesting System Flow Diagram & Description

**A. INSTRUCTIONS TO BIDDERS CLARIFICATIONS/REVISIONS:**

Delete Item 16 from the bid package description for BP 32.03 and replace with the following:

**16. Site storm drainage filtration structure is part of this bid package. Storm supply piping from filtration structure to harvesting tank and overflow piping from harvesting tank to site storm system are by others, with flexible connections to tank by this subcontractor. Provide all required information to coordinate these connections and provide inlets/outlets on storage tank coordinated with storm drainage piping by others.**

**B. PROJECT MANUAL, SPECIFICATION CLARIFICATIONS/REVISIONS:**

None.

**C. REQUEST FOR INFORMATION QUESTIONS AND RESPONSES:**

**Refer to the attached PM web RFI responses for the following questions:**

RFI # 215 Clarification – Rain Harvesting System

**Equal or Substitute full attachment including but not limited to Drawings, Product Data, Reports and / or Tests are available at the following ftp site:**

ftp.fipconstruction.com  
Username: SCSUBids  
Password: bids9415



ADDENDUM NO.: 1

DATE OF ADDENDUM: February 10, 2014

**D. DRAWING CLARIFICATIONS/REVISIONS**

The following list represents revisions to Volume 1 of 2 Drawings.

DWG#	DETAIL#	DESCRIPTION OF REVISION
IR 100	Irrigation Plan	Add 1" pipe connection to pre-filter flush nozzle as indicated on attached SK-1.
IR 100	Enlarged Irrigation Plan	Pipe, power, and fittings connections' clarifications as indicated on attached SK-2

The following list represents revisions to Volume 2 of 2 Drawings.

None.

All questions must be in writing (not phone) and must be forwarded to the Construction Manager: FIP Construction, Inc., 308 Farmington Avenue, Farmington, CT 06032, Attn: Mark Culligan, Senior Project Manager, [culliganm@fipconstruction.com](mailto:culliganm@fipconstruction.com), Fax 203-272-5073.

END OF ADDENDUM

Centerbrook Architects and Planners, LLP  
On Behalf of the Department of Construction Services

# Rainwater Harvesting System: Flow Diagram & System Description

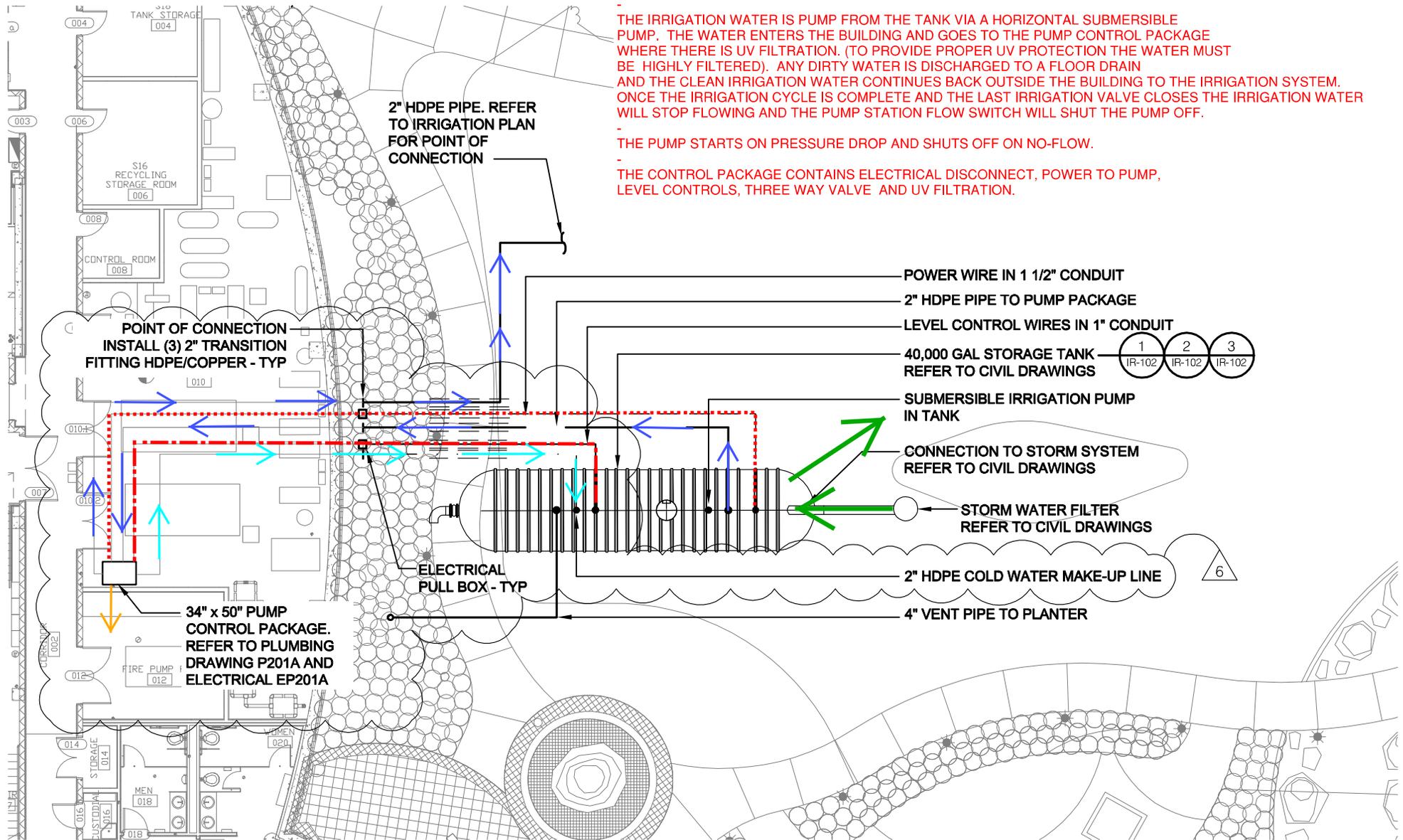
COLLECTED WATER GOES THROUGH THE PRE-FILTER. DIRTY WATER WILL BE DIRECTED TO THE CONTROL STRUCTURE (5% LOSS OF COLLECTED WATER). CLEAN WATER TO THE TANK. ONCE THE TANK IS FULL ANY ADDITIONAL WATER WILL GO OUT THE TANK OVERFLOW TO THE DRYWELL.

ONCE THE IRRIGATION SYSTEM STARTS THE PRESSURE IN THE MAIN LINE WILL DROP CAUSING THE PRESSURE SWITCH ON THE PUMP CONTROL PACKAGE TO START THE PUMP. ONCE THE LEVEL IN THE TANK DROPS TO A PRESET LEVEL A THREE WAY VALVE WILL OPEN AND CITY WATER WILL FLOW TO THE TANK. WHEN THE LEVEL IN THE TANK REACHING A HIGHER LEVEL IN THE TANK THE VALVE WILL CLOSE.

THE IRRIGATION WATER IS PUMP FROM THE TANK VIA A HORIZONTAL SUBMERSIBLE PUMP. THE WATER ENTERS THE BUILDING AND GOES TO THE PUMP CONTROL PACKAGE WHERE THERE IS UV FILTRATION. (TO PROVIDE PROPER UV PROTECTION THE WATER MUST BE HIGHLY FILTERED). ANY DIRTY WATER IS DISCHARGED TO A FLOOR DRAIN AND THE CLEAN IRRIGATION WATER CONTINUES BACK OUTSIDE THE BUILDING TO THE IRRIGATION SYSTEM. ONCE THE IRRIGATION CYCLE IS COMPLETE AND THE LAST IRRIGATION VALVE CLOSES THE IRRIGATION WATER WILL STOP FLOWING AND THE PUMP STATION FLOW SWITCH WILL SHUT THE PUMP OFF.

THE PUMP STARTS ON PRESSURE DROP AND SHUTS OFF ON NO-FLOW.

THE CONTROL PACKAGE CONTAINS ELECTRICAL DISCONNECT, POWER TO PUMP, LEVEL CONTROLS, THREE WAY VALVE AND UV FILTRATION.



**1** TANK ENLARGEMENT PLAN  
1"=10'-0"

# RFI Details



<b>Project Name</b>	<b>SCSU - Academic Laboratory Building</b>	<b>Project Number</b>	<b>BI-RS-283 CMR</b>
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<b>RFI #</b> 00000215	Rainwater Harvesting System Clarifications	<b>1/30/2014</b>
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<b>Discipline:</b>	<b>Category:</b> Civil / Sitework	<b>Priority:</b> High
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<b>To Company</b>	<b>Attention</b>	<b>Author Company</b>	<b>Authored By</b>
The Liro Group	Chris Lynch	FIP Construction, Inc.	Jon Connors

<b>Question</b>	<b>Due: 2/4/2014</b>	<b>Answer</b>
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In regards to the rain water harvesting system please provide clarification for the following:

- Detail 1 on drawing IR-100 calls for 2" HDPE pipe to pump package which is assumed to be the pump discharge. However, details 2 & 3 on drawing IR-102 do not specify discharge size coming from pump, while the pump control package detail shows 3" connection from rainwater pump discharge. Please confirm size of pump discharge line.
- Pump control package detail on IR-102 shows 1" NPT to rainwater filter nozzle. There is no other reference to a rainwater filter nozzle in the drawings. Please provide a detail for location and piping requirements.

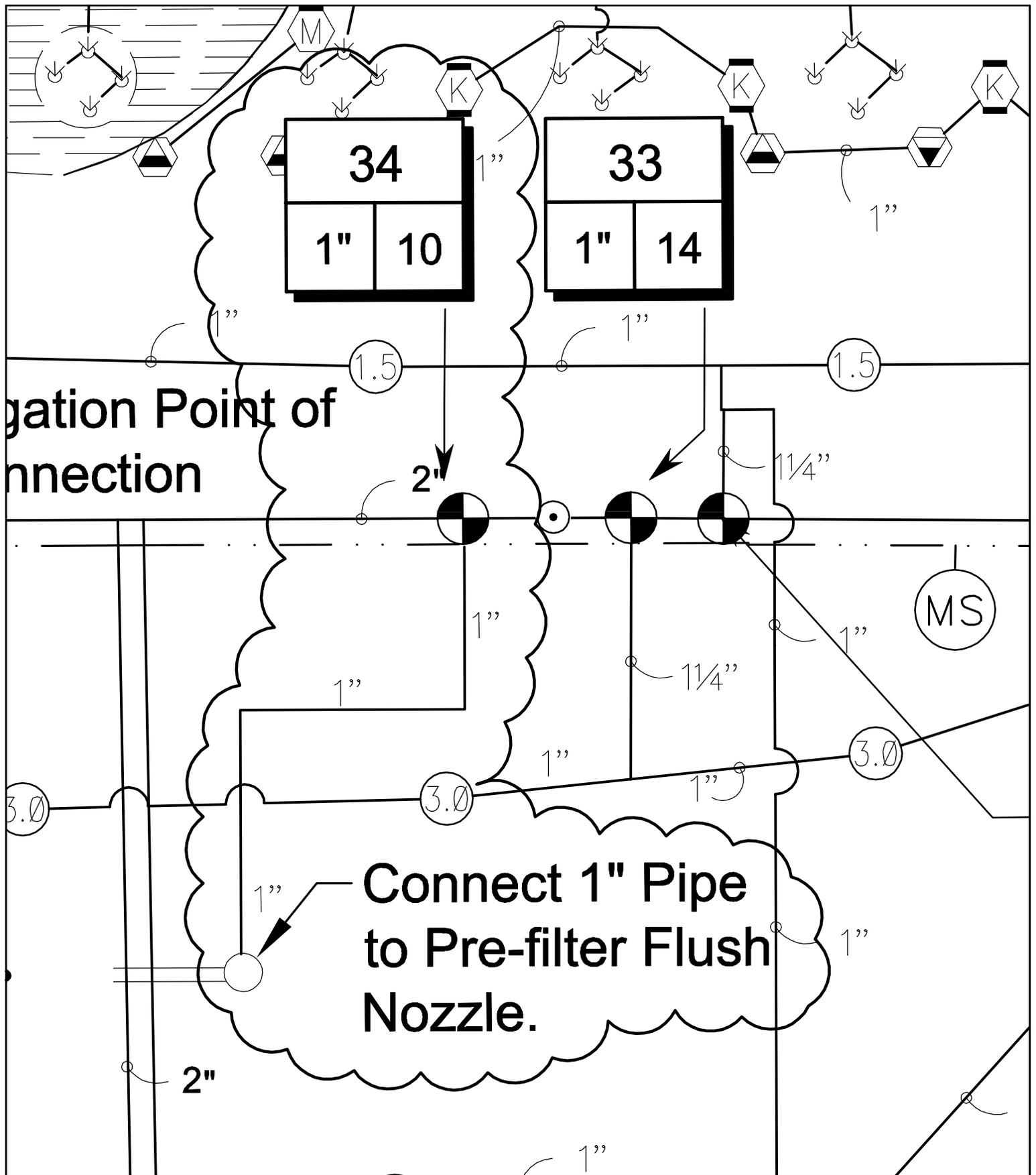
Northern Design Response:

- Increase pump discharge pipe to 3". Pipe is to be 3" from pump to pump control package and 3" to irrigation system point of connection. (See SK2 attached)
- The 1" NPT to the pre-filter nozzle will be eliminated from the pump control package. In lieu of that the irrigation contractor will install another 1" automatic valve assemble (Zone #34) which will be connected to the pre-filter nozzle. The irrigation controller will operate this valve. (See SK1 attached)

MA@ND

### Proposed Solution

**Impact:**    **Scope of Work**        **Schedule**        **Cost**



igation Point of  
nnection

Connect 1" Pipe  
to Pre-filter Flush  
Nozzle.

SCSU Academic Science Laboratory Building  
Hamden, Connecticut



**NORTHERN DESIGNS LLC**

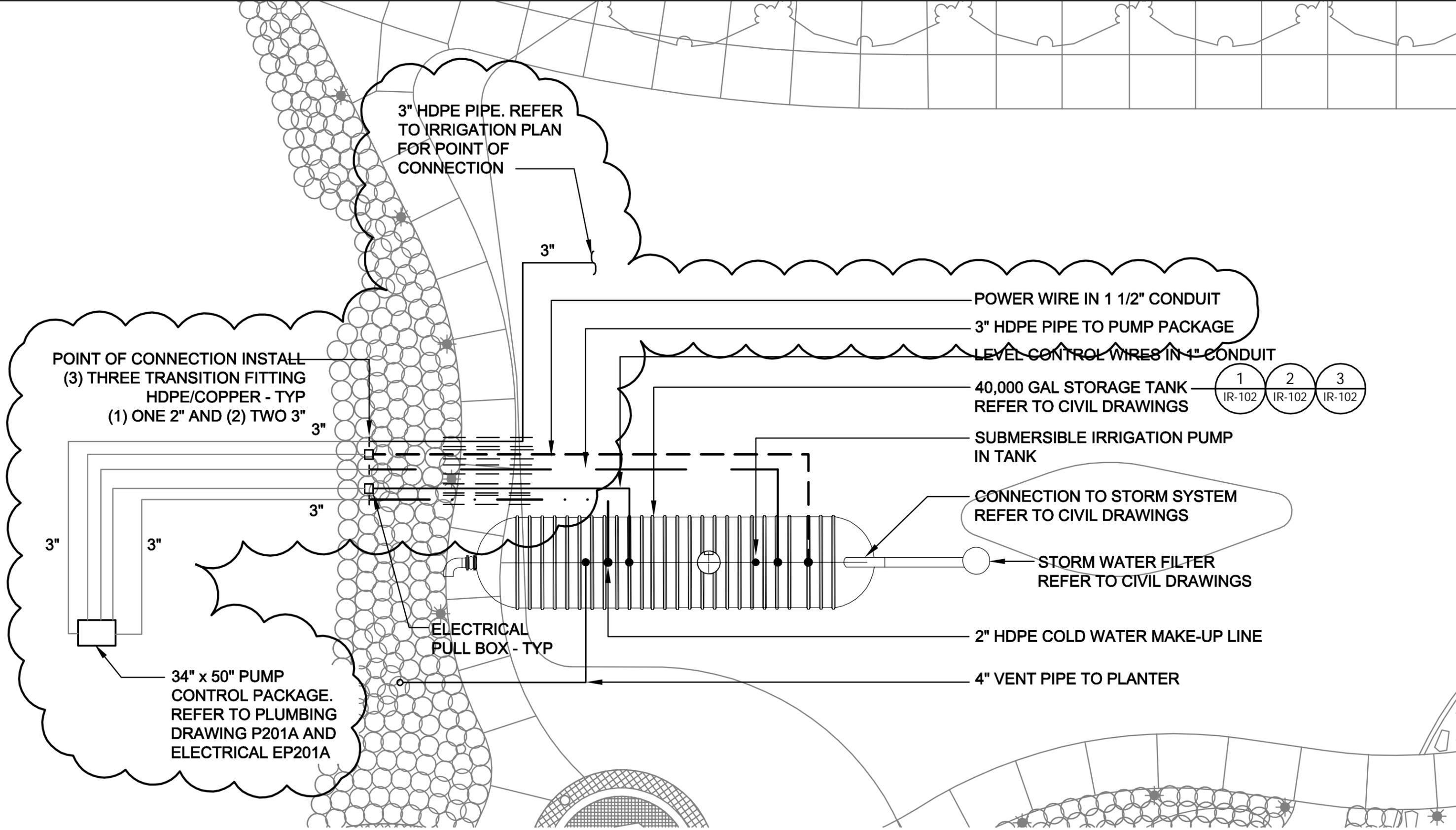
IRRIGATION CONSULTANTS AND DESIGNERS  
2080 HARTFORD TURNPIKE  
NORTH HAVEN, CONNECTICUT 06473  
(803) 838-8710 FAX (803) 838-8716

Member, American Society of Irrigation Consultants  
Irrigation Association - Certified Irrigation Designer

1" Automatic Valve Piped to Pre-Filter

Issue Number	Issue Date	Issue Description	Date
1	02/10/2014	RFI-215	2/10/2014
Scale			NTS
Job No.			BR-IS-283
Drawing No.			

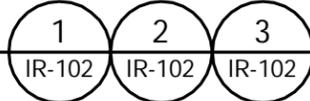
**SK-1**



POINT OF CONNECTION INSTALL  
 (3) THREE TRANSITION FITTING  
 HDPE/COPPER - TYP  
 (1) ONE 2" AND (2) TWO 3"

3" HDPE PIPE. REFER  
 TO IRRIGATION PLAN  
 FOR POINT OF  
 CONNECTION

POWER WIRE IN 1 1/2" CONDUIT  
 3" HDPE PIPE TO PUMP PACKAGE  
 LEVEL CONTROL WIRES IN 1" CONDUIT



40,000 GAL STORAGE TANK  
 REFER TO CIVIL DRAWINGS

SUBMERSIBLE IRRIGATION PUMP  
 IN TANK

CONNECTION TO STORM SYSTEM  
 REFER TO CIVIL DRAWINGS

STORM WATER FILTER  
 REFER TO CIVIL DRAWINGS

2" HDPE COLD WATER MAKE-UP LINE

4" VENT PIPE TO PLANTER

34" x 50" PUMP  
 CONTROL PACKAGE.  
 REFER TO PLUMBING  
 DRAWING P201A AND  
 ELECTRICAL EP201A

ELECTRICAL  
 PULL BOX - TYP

SCSU Academic Science Laboratory Building  
 Hamden, Connecticut

Rainwater Harvesting Enlargement Plan

Issue Number	Issue Date	Issue Description	Date
1	02/10/2014	RFI-215	2/10/2014

Scale: NTS  
 Job No.: BR-IS-283  
 Drawing No.:

**NORTHERN DESIGNS LLC**  
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 Irrigation Association - Certified Irrigation Designer