



Renovate Bulmer Marvin Quadrangle  
Hudson Valley Community College  
80 Vandenburg Avenue, Troy, NY  
2 March 2007  
(Bid 2973)

# ADDENDUM # 1

<i>Item #</i>	<i>Specification Section</i>	<i>Changes to the Specifications</i>
1.	SECTION 000110	<b>ADD:</b> SECTION 004550 Storm Water Pollution Prevention Plan Certification Form  SECTION 003124 Storm Water Pollution Prevention Plan
2.	SECTION 003124	<b>ADD:</b> Attached SECTION 003124 Storm Water Pollution Prevention Plan prepared by the Saratoga Associates, dated 23 February 2007.
3.	SECTION 004550	<b>ADD:</b> Attached SECTION 004550 Storm Water Pollution Prevention Plan Certification Form
4.	SECTION 260095	<b>DELETE:</b> Paragraphs 2.02 and 2.03. The contractor shall please note that Drawing E101 contains additional detailed specifications.

<i>Item #</i>	<i>Drawing #</i>	<i>Changes to the Drawings</i>
5.	All Drawings	<b>CHANGE:</b> All Contract Limit Lines to conform with the Contract Limit Lines shown on Drawing ASKL1
6.	L100, L101, L200, L201, L300, 301, L400, L401	<b>ADD:</b> Note to plan: "One hundred percent (100%) of the underground utilities on campus are campus owned. Contractors shall NOT contact local utilities or municipalities relative to these systems, but shall direct all contacts to HVCC at (518) 629-7356."
7.	L200, L201	<b>ADD:</b> The following after the word "where" to concrete pavement demolition note in Demolition Schedule: "landscape areas are proposed, see L300 and L301."

<i>Item #</i>	<i>Drawing #</i>	<i>Changes to the Drawings</i>
8.	L200, L201	<b>ADD:</b> Note to plan: "In locations where proposed plant material is to be placed where existing pavement occurs, existing soil and subbase shall be excavated to a depth of 30" and replaced with specified topsoil, see L500 and L501."
9.	L200, L201	<b>DELETE:</b> Demolition Note 6.
10.	L200, L201	<b>DELETE:</b> Demolition Note 11 in it's entirety and substitute:  "11. Approximately 2013 LF of existing granite curb has been identified for removal and reuse. Approximately 2187 LF of granite curb has been identified for new work. The contractor shall be responsible for providing all necessary new granite curb required for the complete installation indicated on the Drawings L300 and L301 inclusive of any new curb required in place of salvaged existing curb that cannot be reused."
11.	L201	<b>CHANGE:</b> The existing staircase adjacent to the northern Brahan Plaza is proposed to remain and shall not be removed.
12.	L201	<b>CHANGE:</b> Plan as shown on Drawing AKSL2 and ASLK3
13.	L300, L301	<b>ADD:</b> Detail 4A reference to all building entrance/doorway locations indicated to receive new walks
14.	L300, L301	<b>CHANGE:</b> Plans require clarification to note that all terminations of granite curb into lawn areas are 6' transition curbs.
15.	L300, L301	<b>CHANGE:</b> All granite curb in front of proposed benches is flush with a 6' transition curb each side of designated area.
16.	L300, L301	<b>CHANGE:</b> All mountable granite curb at proposed turn around begins at SE corner of pavement and continues north for 24 lf and shall transition back to standard granite curb.
17.	L300	<b>DELETE:</b> The following note:  "Clock tower foundation and footings by others. See structural drawings."  And substitute:  "See Sheet S100 for clock tower foundation and footings"

<i>Item #</i>	<i>Drawing #</i>	<i>Changes to the Drawings</i>
18.	L300	<b>CHANGE:</b> Proposed asphalt walk from existing parking area west of Marvin leading to Bulmer should be changed to concrete
19.	L301	<b>ADD:</b> Handrail adjacent to existing staircase to remain on west side of Amstuz should be sanded, primed and repainted, color selected by Architect. Provide exterior grade 100% acrylic primer and gloss 100% acrylic exterior grade paint.
20.	L301	<b>CHANGE:</b> Plan as shown on Drawings ASKL9 and ASKL10
21.	L400, L401	<b>CHANGE:</b> All existing catch basin rims noted to be raised shall be changed to a solid cover (noted) or a pedestrian acceptable grate.
22.	L400, L401	<b>DELETE:</b> Grading Legend: New Sanitary Manhole. There is no sanitary work proposed.
23.	L400, L4014	<b>CHANGE:</b> Storm Sewer Schedule as shown on Drawing AKSL4
24.	L401	<b>CHANGE:</b> Plan as shown on Drawing ASKL5
25.	L600	<b>DELETE:</b> Detail 2
26.	L600	<b>CHANGE:</b> Detail 14 as shown Drawing ASKL6
27.	L600	<b>ADD:</b> Detail 4A as shown on Drawing ASKL7.
28.	L601	<b>CHANGE:</b> Detail 6 from Catch Basin Type 1 to Catch Basin Type 2 and Detail 7 from Catch Basin Type 2 to Catch Basin Type 1.
29.	L602	<b>ADD:</b> Detail 6 as shown on Drawing ASKL8
30.	S100	<b>CHANGE:</b> Detail 1 footing dimension from 9'-0" square to 8'-0" square.  Detail 3 pier dimension from 2'-8"x2'-8" to 2'-4"x2'-4"

<i>Item #</i>	<i>Drawing #</i>	<i>Changes to the Drawings</i>
31.	S100	<b>ADD:</b> Drawing #04 TWR/ C 2058 A for reference. This clock tower will be furnished by the Owner on or about 15 August 2007. The Contractor shall be responsible for coordinating the interface of the foundation and footings shown with the final shop drawing for this clock tower, providing a crane and all labor necessary to erect this clock tower and to complete the necessary electrical connections required to complete the installation of the clock tower.
32.	E100	<b>ADD:</b> One Type L2-c light fixture, pole base, underground conduit and wiring at the location located adjacent to the SE corner of the eastern edge of Marvin Library at the location indicated by an "asterisk" symbol. Circuit to the adjacent light pole to the east.

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# STORMWATER POLLUTION PREVENTION PLAN

Renovate Bulmer Marvin Quadrangle  
Hudson Valley Community College

City of Troy  
Rensselaer County  
New York 12180

February 23, 2007

Prepared for:

Hudson Valley Community College  
80 Vandenburg Avenue  
City of Troy, New York 12180

Prepared by:

Saratoga Associates  
443 Broadway  
Saratoga Springs, NY 12866

**Renovate Bulmer and Marvin Quadrangle  
Hudson Valley Community College**

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## Section 1 - Introduction

The following is a Stormwater Pollution Prevention Plan (SWPPP) developed for renovation of the Bulmer and Marvin Quadrangle project located in Troy, New York. It is prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) General Permit for Stormwater Discharges from Construction Activity, General Permit No. GP-02-01.

The stormwater management facilities are designed to mitigate the quality and quantity of stormwater runoff from the developed project site in accordance with Chapter 9: Redevelopment Projects of the New York State Stormwater Management Design Manual. Additionally, erosion and sediment control measures (during and after construction) have been designed in accordance with NYSDEC regulations.

### 1.1 NOTICE OF INTENT

To obtain coverage under the General Permit and thus be authorized to discharge stormwater from construction activities, the Owner must submit a completed Notice of Intent (NOI) form that references this SWPPP and conformance with the General Permit. Coverage begins five (5) business days after the NOI form is received by the NYSDEC. A copy of the NOI form follows the General Permit in Appendix D.

A copy of the completed NOI and a brief description of the project must be posted at the project site in a prominent place for public viewing. In addition, a signed copy of the NOI, the SWPPP and any other reports required by the General Permit shall be submitted concurrently to the local governing body and any other authorized agency (except the NYSDEC) having jurisdiction or regulatory control over the project site.

### 1.2 SIGNATURES, CERTIFICATIONS AND REVIEW

The SWPPP must be signed by the Owner, or by the Owner's duly authorized representative, on the page preceding the Table of Contents at the beginning of the SWPPP.

All contractors and subcontractors involved with the project must sign a certification statement before undertaking any construction activity on said project site. This certification must include: The signer's name and title, the name, address and telephone number of the contracting firm, the address of the project site and the date the certification is made. The certification statement page follows the Owner's signature page at the beginning of the SWPPP.

### 1.3 NOTICE OF TERMINATION

When the construction site has been finally stabilized, the Owner must submit a signed Notice of Termination (NOT) form. This form is used to confirm that the permanent stormwater structures are

in place and have been constructed in accordance with the SWPPP. The Owner must also certify that the appropriate operation and maintenance practices will be instituted for the structure(s) to function as designed after the site has been stabilized.

**Section 2 – Stormwater Management Facilities**

2.1 OVERVIEW

This Stormwater Pollution Prevention Plan is prepared for the proposed site renovations to the Bulmer and Marvin Quadrangle of Hudson Valley Community College located in Troy, New York. The site is accessible by Vandenburg Avenue to the west. Refer to *Figure 1 – Site Location Map* for additional geographic reference to the project site.

The project will be developed on the 3.25± acres site and consist of redevelopment of an existing quadrangle including paved walks, revised roadways, new utility work and revised landscaping. The proposed redevelopment will result in a net decrease in impervious cover. For more information on the proposed redevelopment, refer to *Figure 2 – Project Concept*.

The Stormwater Management Plan has been designed to meet the requirements of Chapter 9: Redevelopment Projects from the NYSDEC Design Manual. The plan proposes the use of alternative practices to treat 75% of the water quality volume from the disturbed area as well as any additional runoff from tributary areas that are not within the disturbed area. Since the redevelopment results in no increase of impervious cover or changes to the hydrology that increases the discharge rate, the channel protection, ten-year and hundred-year design criteria do not apply.

The Water Quality (WQ) management measures and designs described herein are in accordance with the pertinent portions of Chapters 4 through 9 of the NYSDEC Design Manual, as required in Part III.D.1 of GP-02-01. The objective of a WQ management system is to meet the pollutant removal goals by capturing and treating 90% of the average annual stormwater runoff volume, otherwise known as the Water Quality Volume (WQ<sub>v</sub>). Chapter 4 of the NYSDEC Design Manual provides the following equation to determine the WQ<sub>v</sub> (in acre-feet of storage):

$$WQ_v = \frac{(P)(Rv)(A)}{12}$$

Where:

- WQ<sub>v</sub> = water quality volume (acre-feet)
- P = 90% Rainfall Event Number (see Figure 4.1, DEC Design Manual)
- Rv = 0.05 + 0.009 (I), where I is the percent of impervious cover
- A = site area (acres)

Based on the Chapter 9 requirements, it is assumed that by treating 75% of the WQv through employment of acceptable alternative practices listed in Section 9.3.3 of the NYSDEC Design Manual, the project will meet the required water quality objectives. Acceptable alternative practices for water quality treatment meet the following criteria:

- > Treat 75% of the full water quality volume (WQ<sub>v</sub>).
- > 80% total suspended solids (TSS) removal and 40% total phosphorous (TP) removal.
- > Acceptable longevity in the field.

2.2 WATERSHED DATA – EXISTING CONDITIONS

According to the USDA Natural Resources Conservation Service, the existing 3.25± acres site consists of “Hudson silt loam” soils. The SCS hydrologic soil group for these soils is Type “C.” Refer to *Figure 3 - Soil Boundary Map* for more soil information. The existing site consists of paved roads, walkways and landscaped areas.

Table 2-1 below, provides a summary of the land coverage, before redevelopment of the project site.

<b>Table 2-1 Land Coverage, Pre-Redevelopment</b>	
<b>Characteristics</b>	<b>Pre- (acres)</b>
Walks	0.53
Roads	0.79
Landscaped Areas	1.93
<b>Total</b>	<b>3.25±</b>

The pre-redeveloped project site consists of an existing quadrangle including walks, roads, utilities and landscaped areas. Surface runoff from the site flows west into an underground stormwater collection system and discharges at a single point, referred to as DP-1 on the *Existing Conditions Drainage Area Map* contained in Appendix A. This runoff ultimately discharges to a tributary of the Wyants Kill. Existing runoff calculations were performed for the project area utilizing Soil Conservation Service TR-55 methodology and the HydroCAD 8.0 computer program. Discharge rates for the pre-redevelopment conditions are shown below in Table 2-2.

<b>Table 2-2 Pre-Redevelopment Peak Discharge Rates</b>		
<b>Design Point</b>	<b>Pre- 10-yr Storm (cfs)</b>	<b>Pre- 100-yr Storm (cfs)</b>
DP-1	14.53	22.15

Detailed calculations for the pre-redevelopment drainage conditions are contained in Appendix A.

2.3 WATERSHED DATA – PROPOSED CONDITIONS

Redevelopment of the 3.25± acres project site will result in no change to the existing hydrology, therefore the watershed and discharge point (DP-1) remain the same - as is shown on the attached *Proposed Conditions Drainage Area Map* found in Appendix B. The proposed land coverage for the project site will remain similar to existing conditions.

Table 2-3 below, provides a summary of the land coverage, after redevelopment of the project site.

<b>Table 2-3 Land Coverage, Post-Redevelopment</b>	
<b>Characteristics</b>	<b>Post-(acres)</b>
Walks	0.91
Roads	0.30
Landscaped Areas	2.04
<b>Total</b>	<b>3.25±</b>

As is shown in Table 2-4 below, a net decrease in impervious cover of 0.11 acres will result from redevelopment of the project site.

<b>Table 2-4 Pre- and Post-Redevelopment Land Coverage Areas</b>			
	<b>Pre-(acres)</b>	<b>Post-(acres)</b>	<b>Difference (acres)</b>
Walks	0.53	0.91	<b>+0.38</b>
Roads	0.79	0.30	<b>-0.49</b>
Landscaped Areas	1.93	2.04	<b>+0.11</b>
<b>Total</b>	<b>3.25</b>	<b>3.25</b>	

The redeveloped project site surface runoff will continue to flow west into an underground stormwater collection system and discharge at the same DP-1. Proposed runoff calculations were performed for the project area utilizing Soil Conservation Service TR-55 methodology and the HydroCAD 8.0 computer program. As is expected, the ten-year and hundred-year storms result in a decrease in peak discharge rates and therefore, according to Chapter 9 of the NYSDEC Design Manual, no extended detention is required. Discharge rates for the pre-redevelopment and post-redevelopment conditions are shown in Table 2-5 below.

<b>Table 2-5 Pre-redevelopment vs. Post-redevelopment Peak Discharge Rates</b>				
<b>Design Point</b>	<b>Pre-10-yr Storm (cfs)</b>	<b>Post-10-yr Storm (cfs)</b>	<b>Pre-100-yr Storm (cfs)</b>	<b>Post-100-yr Storm (cfs)</b>
DP-1	14.53	14.09	22.15	21.69

Detailed calculations for the post-redevelopment drainage conditions are contained in Appendix B.

## 2.4 FACILITIES DESIGN

Since the redevelopment results in no increase in impervious area or changes to the hydrology that increases the discharge rate, the channel protection, the ten-year and the hundred-year design criteria do not apply. The plan proposes the use of alternative practices to treat 75% of the water quality volume from the disturbed area as well as any additional runoff from tributary areas that are not within the disturbed area. The alternative practice will consist of a CDS high efficiency hydrodynamic separator unit (model PSMU30\_20) installed in the existing stormwater system to treat 75% of the water quality flow volume of 0.64 cfs and to safely bypass the hundred-year design storm peak discharge rate of 21.69 cfs.

## Section 3 - Erosion and Sediment Controls

### 3.1 TEMPORARY MEASURES DURING CONSTRUCTION

Stormwater runoff from developing areas can result in off-site problems including erosion and water quality degradation due to sedimentation and other non-point source pollutants. These impacts are greatest during construction periods when soils are without any vegetative cover. The General Permit GP-02-01 references the NYSDEC's New York State Guidelines for Urban Erosion and Sediment Control (NYSGUESC) as the required guidelines for design. The NYSGUESC was replaced in August 2005 by the New York State Standards and Specifications for Erosion and Sediment Control (NYSSSESC). Temporary erosion and sediment control measures to be employed during construction shall comply with the NYSSSESC and may include, but not be limited to, temporary swales, check dams, sediment control fencing, erosion control fabric and catch basin inlet protection. These measures shall be implemented per the criteria presented in the NYSSSESC. By reference, these guidelines will be made an integral part of the SWPPP prepared for the project.

Erosion control measures will be implemented to minimize the amount of sediment leaving the site in stormwater discharges. The specific timing for installation of the temporary erosion and sediment control measures will be dependent on the actual Project phasing and may need to be adjusted during construction. However, the general requirements are as follows:

1. Stake out all new work in the field.
2. Install tree protection fencing and identify limits of clearing in the field with fencing or marking tape.
3. Install sediment control fencing where indicated on the plan drawings.
4. Stabilize the disturbed soil with seed, mulch and fabric as necessary.
5. Storm drain inlet protection must be constructed around each existing inlet and new inlet as they are constructed.

6. Disturbed areas shall be stabilized as soon as possible after construction has been completed in the area, but in no case more than 14-days after the construction activity in that portion of the site has temporarily or permanently ceased. Stabilize areas with seed and mulch, erosion control fabric or riprap.
7. Dust control measures shall be employed throughout the construction as required.
8. Concentrated flow must be directed to the storm drain system. Any sheet flow that leaves the site must first pass through sediment control fence.
9. After all disturbed areas have been stabilized the newly installed storm sewer piping must be flushed and inspected.

It is anticipated that the prevention of litter and/or general construction debris from becoming a pollutant source in stormwater discharges will not be a problem. The Owner will make a specific point to the contractors involved that the site is to be kept as clean and orderly as possible during construction. Trash and debris receptacles will be used and cleaned out as necessary.

Precautions shall be taken for on-site storage of construction and waste materials to reduce pollutants from entering stormwater discharges. If necessary, the locations can be fenced off with sediment control fence. Diversionary measures such as temporary swales will be constructed to divert runoff around storage locations. It is anticipated that no unusual materials will be stored at the site. Should any fuel be stored at the site, the contractor shall comply with all applicable regulations.

### 3.2 PERMANENT MEASURES

Permanent erosion and sediment control measures to be implemented include, but not be limited to, establishment of a ground cover in areas not scheduled to be paved, storm sewers, and catch basins. Construction details and locations of these measures are shown on the project site plans.

## **Section 4 – Site Assessment and Inspections**

Site assessment and inspections shall comply with the requirements of Parts III.D.3, III.D.4 and III.D.5 of the General Permit (Appendix D).

### 4.1 BEFORE CONSTRUCTION

A qualified professional, defined in the General Permits as a person knowledgeable in the principles and practice of erosion and sediment controls, such as a licensed professional engineer, Certified Professional in Erosion and Sediment Control (CPESC), or soil scientist shall conduct an assessment of the site prior to the commencement of construction and certify in an inspection report that the appropriate erosion and sediment controls described herein have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

Also prior to construction, the Owner shall certify in the site logbook that the SWPPP meets all federal, state and local erosion and sediment control requirements.

#### 4.2 DURING CONSTRUCTION

Following the commencement of construction, site inspections shall be conducted by a qualified professional at least every seven (7) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater. During each inspection, the qualified professional shall record the following information:

1. On a site map, the extent of all disturbed site areas and drainage pathways along with the areas expected to undergo initial disturbance or significant site work with the next 14-day period.
2. On a site map, the areas of the site that have undergone temporary or permanent stabilization.
3. The site areas that have not undergone active site work during the previous 14-day period.
4. The approximate degree of sediment accumulation in all sediment control practices as a percentage of the sediment storage volume, as well as the depth of sediment within containment structures.
5. The maintenance requirements of all erosion and sediment control practices.
6. Any evidence of rill or gully erosion on slopes or near outlet or overflow structures or excessive deposition of sediment or ponding along barrier or diversion systems.
7. All deficiencies that are identified with the implementation of the SWPPP.

A site logbook of the inspection reports shall be kept at the site. A sample report form is included in Appendix E. The Owner shall post at the site, in a publicly accessible location, a summary of the site inspection activities on a monthly basis.

Soil stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Note that this requirement does not apply when either: 1) The initiation of stabilization measures by the 14<sup>th</sup> day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions; or 2) The construction activity on a portion of the site is temporarily ceased, and earth-disturbing activities will be resumed within twenty-one (21) days.

Upon installation of the proposed stormwater system and CDS unit, the catch basins sumps and CDS unit sump should be checked on a weekly basis to monitor the amount of sediment/debris collected. Cleanout of the sumps should occur when greater than 75% of the available sump capacity is filled.

#### 4.3 END OF CONSTRUCTION

A qualified professional shall perform a final site inspection and certify that the site has undergone final stabilization and that all temporary erosion and sediment controls not needed for long-term erosion control have been removed. Reference SWPPP Section 1.3 for the requirements for filing the Notice of Termination.

#### 4.4 AFTER CONSTRUCTION

Once construction has been completed and all disturbed areas have been stabilized, it will be the sole responsibility of the Owner to perform routine inspections to ensure that the permanent erosion and sediment control measures remain in satisfactory condition. The site should be inspected on a routine basis (monthly) and after major storm events (greater than 1 inch of rainfall) to identify areas where maintenance may be required.

Storm sewer systems should be inspected on a routine basis to monitor sediment levels in catch basin structures. Sediments should be removed when they reach within 6 inches of the bottom of the outlet pipe.

General site slopes, swales and/or channels should be inspected on a routine basis to ensure that erosion is not occurring. Repairs and/or improvements should be made as soon as possible to correct any deficiencies.

The catch basins sumps and CDS unit sump should be checked on a monthly basis to monitor the amount of sediment/debris collected. Cleanout of the sumps should occur when greater than 75% of the available sump capacity is filled. A CDS Stormwater Treatment Unit Operation and Maintenance Manual will be provided by the unit's manufacturer.

A sample Operation, Maintenance and Management Inspection Checklist is contained in Appendix F.

### **Section 5 – Monitoring, Reporting and Retention of Records**

Monitoring, reporting and retention of records shall comply with the requirements of Part IV of the General Permit.

#### 5.1 MONITORING AND REPORTING

The NYSDEC may, at its sole discretion, require monitoring of discharge(s) from the permitted construction activity after notifying the permittee in writing of the basis for such monitoring, the parameters and frequency at which monitoring shall occur and the associated reporting requirements, if any.

5.2 RETENTION OF RECORDS

The Owner shall retain copies of the SWPPP and any reports submitted in conjunction with the General Permit, and records of all data used to complete the NOI to be covered by the permit, for a period of at least three (3) years from the date that the site is finally stabilized. A copy of the SWPPP shall be kept at the construction site from the date of initiation of construction activities to the date of final stabilization.

A written summary of the status of the SWPPP with respect to the General Permit shall be prepared at a minimum frequency of every three (3) months during which coverage under this permit exists. This summary should address the status of achieving each component of the SWPPP and shall be signed and made available for review in the same manner as the original SWPPP.

**Section 6 – Standard Permit Conditions**

An overview of the standard permit conditions that are most likely to be encountered is provided below and the complete, detailed conditions can be referenced in Part V of the General Permit.

6.1 DUTY TO COMPLY

The Owner must comply with all conditions of the General Permit. The Contractor and all subcontractors must comply with the terms of the SWPPP.

6.2 DUTY TO MITIGATE

The Owner and all contractors shall take all reasonable steps to minimize or prevent any discharge in violation of the General Permit that has a reasonable likelihood of adversely affecting human health or the environment.

6.3 DUTY TO PROVIDE INFORMATION

The Owner shall furnish any information requested by any agency with regulatory or review authority over the project for the purpose of determining compliance with the General Permit or compliance with any other regulatory requirements placed on the project in conjunction with the permit. Failure to provide requested information shall be a violation of the General Permit.

The SWPPP and the inspection reports are public documents that the Owner must make available for inspection, review and copying by any person within five (5) business days of the Owner receiving a written request by any such person. Copying of such documents will be done at the requester's expense.

If the Owner becomes aware of any relevant facts that have not been submitted, or that information submitted is incorrect, he/she shall promptly submit such facts or correct information.

6.4 SIGNATORY REQUIREMENTS

Signatory requirements for the SWPPP, NOI, NOT, reports, certifications or information required by the General Permit, or submitted pursuant to the General Permit are described in detail in Section V.H of the General Permit.

6.5 INSPECTION AND ENTRY

The Owner shall allow the NYSDEC or an authorized representative of the EPA, the State, or, in the case of a construction site which discharges through a Municipal Separate Storm Sewer System (MS4), an authorized representative of the MS4 receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter the Owner's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of the General Permit.
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of the General Permit.
3. Inspect at reasonable times and facilities or equipment (including monitoring and control equipment).

6.6 PERMIT ACTIONS

At the Department's sole discretion, the General Permit may, at any time, be modified, revoked or renewed. The filing of a request by the Owner for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not stay compliance with any terms of the General Permit.

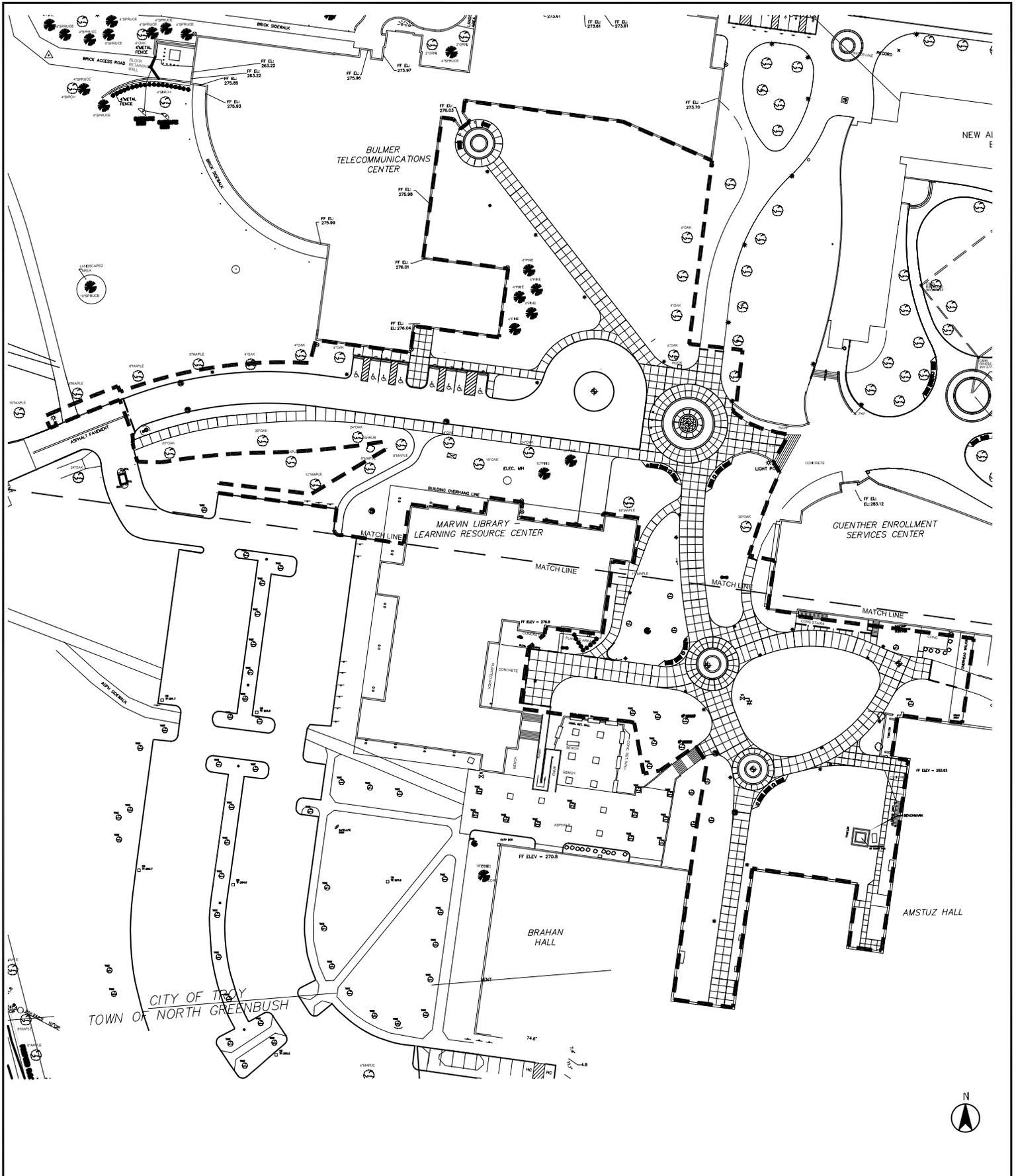
**Section 7 - References**

1. HydroCAD Computer Program.
2. New York State Department of Environmental Conservation General Permit No. GP-02-01, SPDES General Permit for Stormwater Discharges from Construction Activity.
3. New York State Standards and Specifications for Erosion and Sediment Control, prepared by the New York State Department of Environmental Conservation, August 2005.
4. New York State Stormwater Management Design Manual, prepared by the New York State Department of Environmental Conservation, August 2003.
5. Urban Hydrology for Small Watersheds. June 1986, Published by the U.S. Soil Conservation Service, Washington, D.C.

**CONTRACTOR CERTIFICATION STATEMENT**

I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP for the construction site identified in such SWPPP as a condition of authorization to discharge stormwater. I also understand that the operator must comply with the terms and conditions of the New York State Pollution Discharge Elimination System (SPDES) general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards.

<hr/> Name and Title	<hr/> Name and Title
<hr/> Company Name, Address and Phone Number	<hr/> Company Name, Address and Phone Number
<hr/> Continue from Above (If Needed)	<hr/> Continue from Above (If Needed)
<hr/> Address of the Project Site	<hr/> Address of the Project Site
<hr/> Signature and Date	<hr/> Signature and Date
<hr/> Name and Title	<hr/> Name and Title
<hr/> Company Name, Address and Phone Number	<hr/> Company Name, Address and Phone Number
<hr/> Continue from Above (If Needed)	<hr/> Continue from Above (If Needed)
<hr/> Address of the Project Site	<hr/> Address of the Project Site
<hr/> Signature and Date	<hr/> Signature and Date



**SARATOGA ASSOCIATES**

Landscape Architects, Architects,  
Engineers, and Planners, P.C.  
NEW YORK CITY > SARATOGA SPRINGS

HUDSON VALLEY COMMUNITY COLLEGE  
RENOVATE BULMER AND MARVIN QUADRANGLE

TROY, NEW YORK

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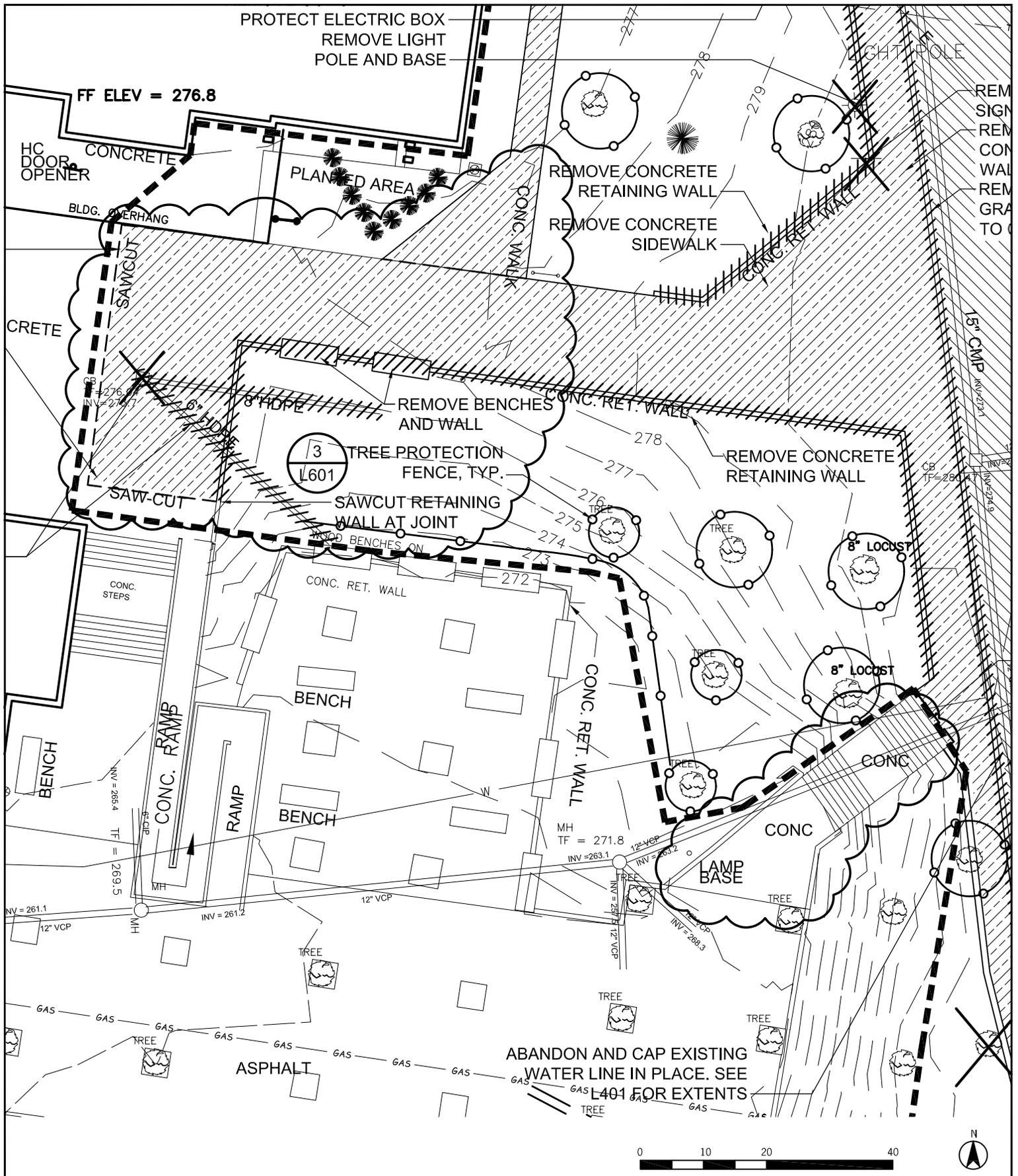
REVISED  
CONTRACT LIMIT  
LINE

REVISIONS

NO.	DATE	DESCRIPTION	DRAWN	CHK

SARATOGA ASSOCIATES PROJECT # 02013.61  
DATE: 28 FEBRUARY 2007  
DRAWN BY: JWK  
CHECKED BY: JWK

ASKL1



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**HUDSON VALLEY COMMUNITY COLLEGE  
RENOVATE BULMER AND MARVIN QUADRANGLE**

**ADDITIONAL REMOVALS**

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**ASKL2**



**STORM SEWER SCHEDULE:**

<u>STRUCTURE</u>	<u>RIM</u>	<u>TYPE</u>	<u>INV. IN</u>	<u>INV. OUT</u>	<u>DIA.</u>	<u>LENGTH</u>	<u>SLOPE</u>
CB-1	267.80	CI	-	264.30	12"	21'	0.48%
CB-2	267.80	CI	264.20	264.20	12"	8'	0.50%
CB-3	274.04	CI	263.31	263.31	12"	17'	0.47%
CB-4	267.25	RGI	-	263.75	12"	88'	0.50%
CB-5	275.00	RGI	-	271.50	12"	92'	0.50%
CB-6	278.15	CI	-	271.60	12"	20'	5.00%
CB-7	276.20	RGI	272.70	272.70	12"	68'	3.09%
CB-8	276.04	RGI	-	273.70	8"	50'	0.50%
CB-9	277.00	CI	273.45	273.45	12"	69'	1.09%
CB-10	279.81	CI	-	276.31	12"	18'	2.00%
CB-11	280.96	CI	-	277.46	12"	29'	0.52%
CB-12	281.11	CI	277.31	277.31	12"	38'	2.92%
CB-13	281.50	CI	275.43	275.39	12"	EXST	EXST
CB-14	281.55	CI	275.89	275.79	12"	EXST	EXST
CB-15	281.88	CI	278.04	278.04	12"	14'	1.00%
CB-16	281.88	CI	277.90	277.90	12"	66'	2.27%
CB-17	282.30	CI	-	278.80	12"	76'	1.00%
CDS UNIT	267.80	-	256.53	256.52	18"	EXST	EXST

NOTE: CI = CURB INLET  
RGI = ROUND GRATE INLET

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RENOVATE BULMER AND MARVIN QUADRANGLE

STORM SEWER SCHEDULE

REVISIONS

NO.	DATE	DESCRIPTION	DRAWN	CHK
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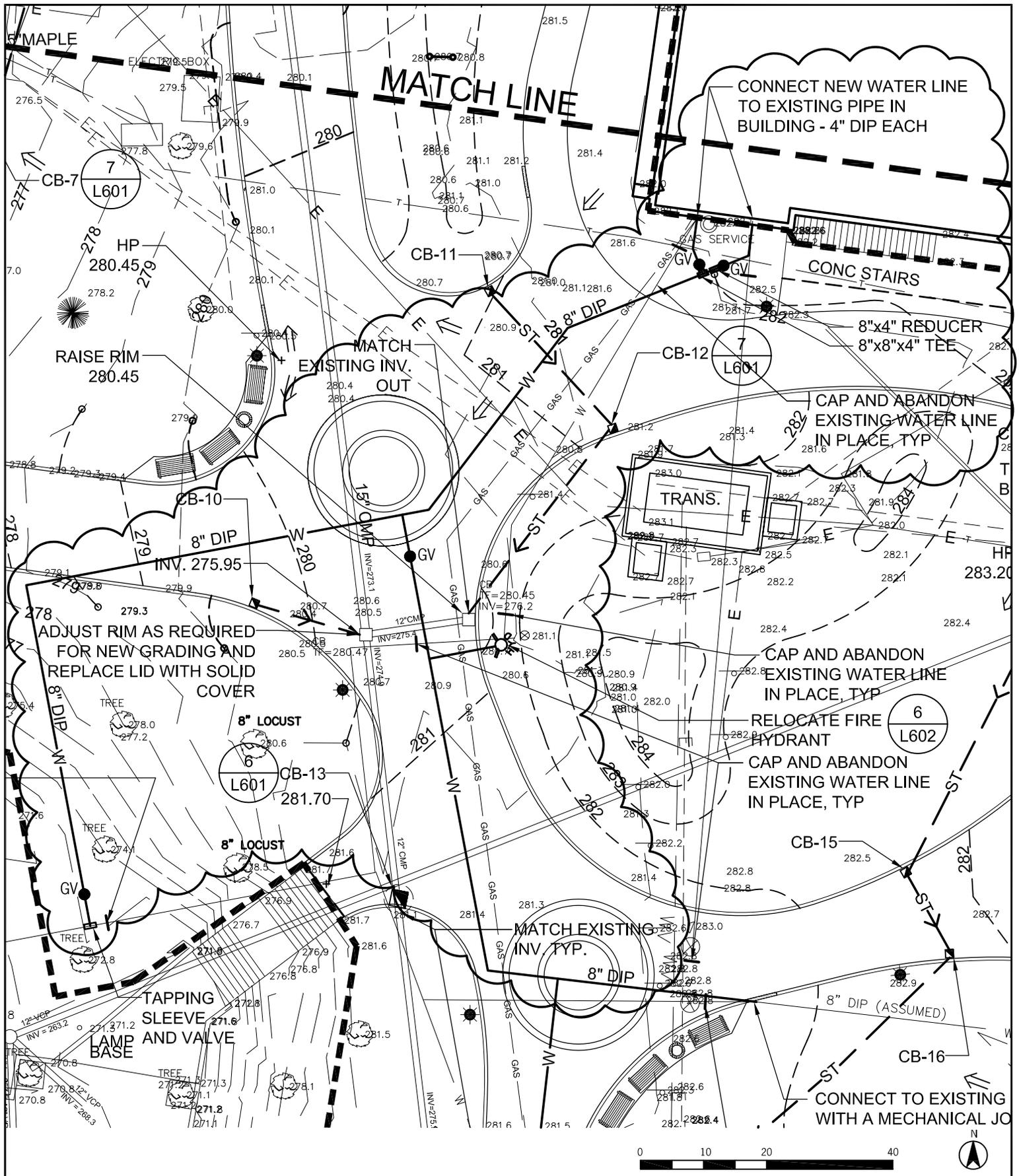
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**ASKL4**



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**REVISED WATER LINE AND HYDRANT LOCATION**

NO.	DATE	DESCRIPTION	DRAWN	CHK
1				
2				
3				
4				
5				

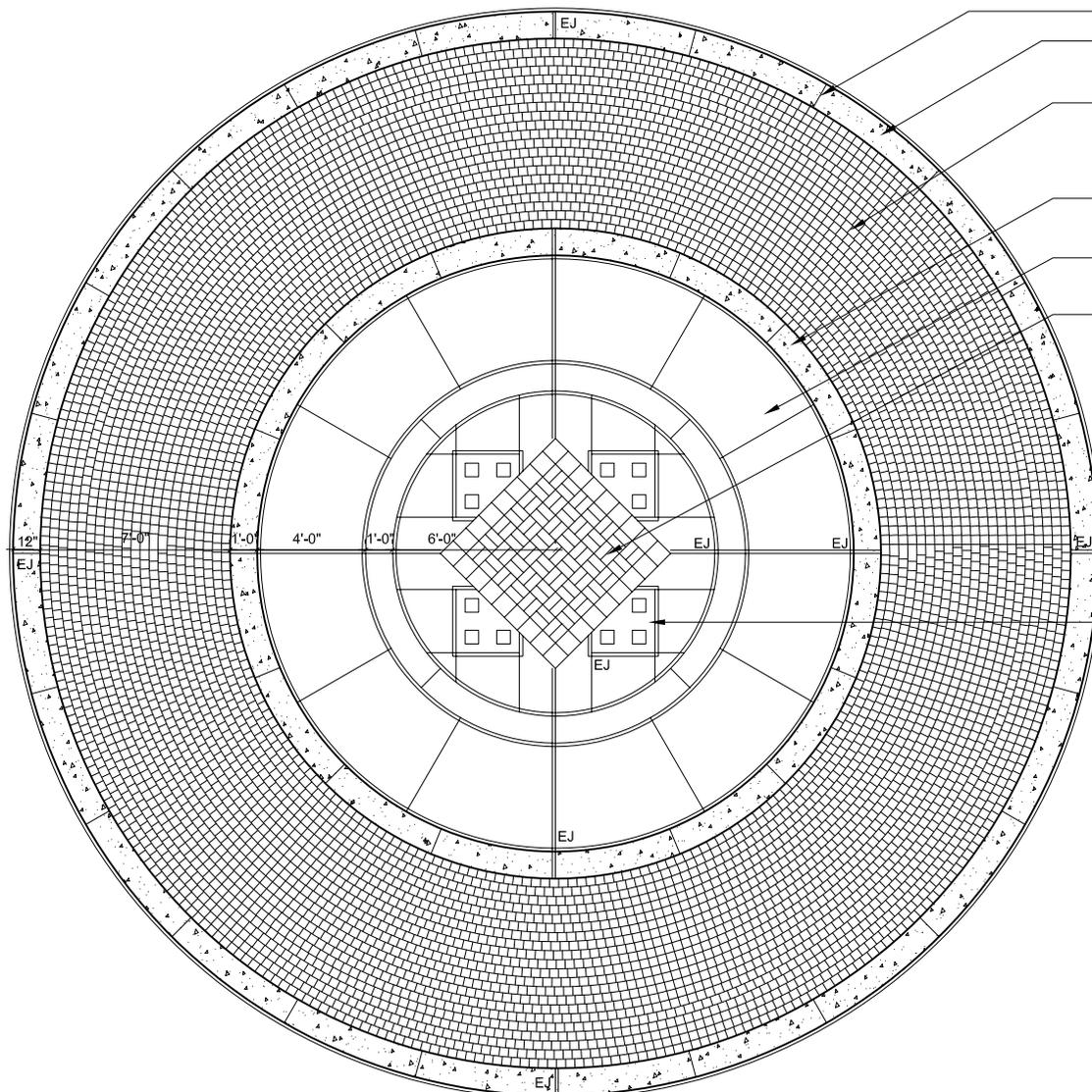
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**ASKL5**



- SCORE JOINTS, TYP.
- CONCRETE PAVEMENT - VEHICLE 12" WIDE
- CONCRETE UNIT PAVERS HANOVER APPIAN CIRCLE COLOR: NATURAL CHARCOAL 6x6 SIZE, ALL PAVERS 2 3/8" THICK
- CONCRETE PAVEMENT - VEHICLE 12" WIDE
- CONCRETE PAVEMENT - VEHICLE 4" WIDE
- GRANITE PAVER FIELD 8x8 PAVERS AROUND OUTSIDE OF SQUARE (32) 4x8 PAVERS INSIDE, IN A BASKETWEAVE PATTERN (98) COLOR: AMERICAN RED PAVERS TO BE ENGRAVED
- CLOCK TOWER CONCRETE BASE, SEE SHEET S100

14 MAJOR CIRCLE  
NOT TO SCALE

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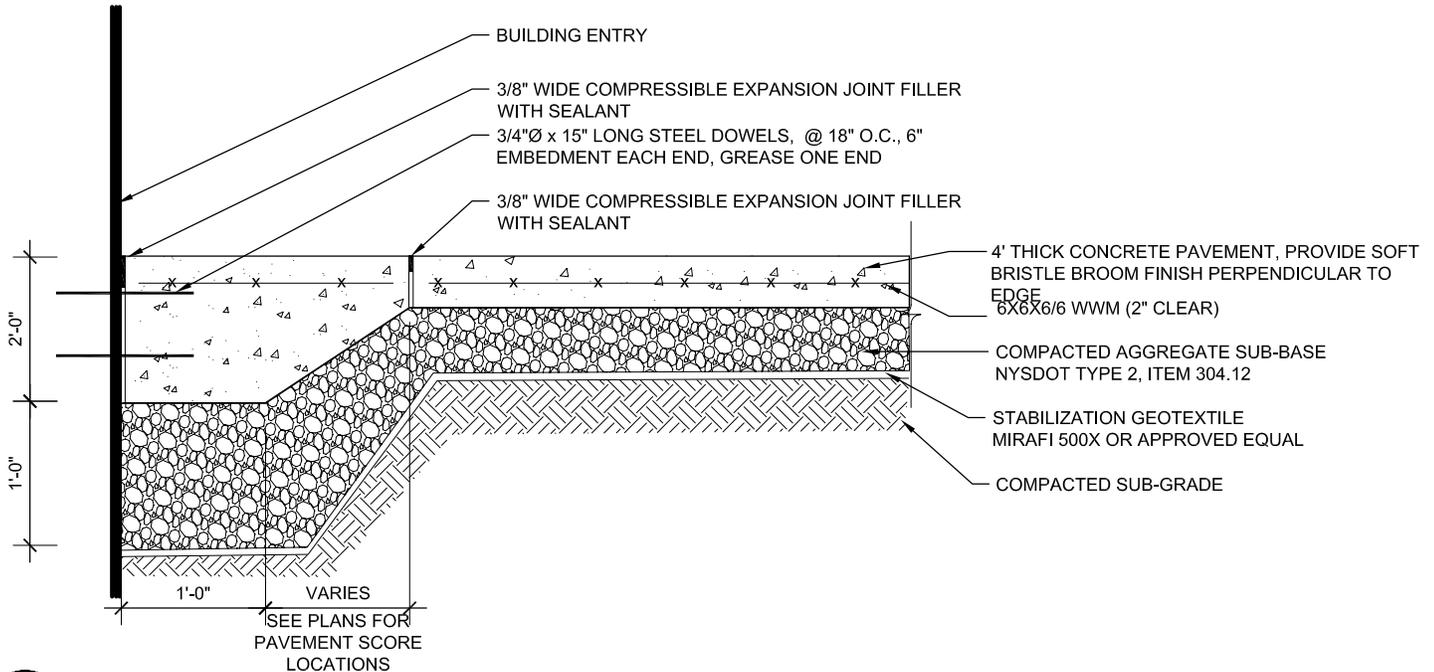
MAJOR CIRCLE AT CLOCK TOWER

REVISIONS				
NO.	DATE	DESCRIPTION	DRAWN	CHK
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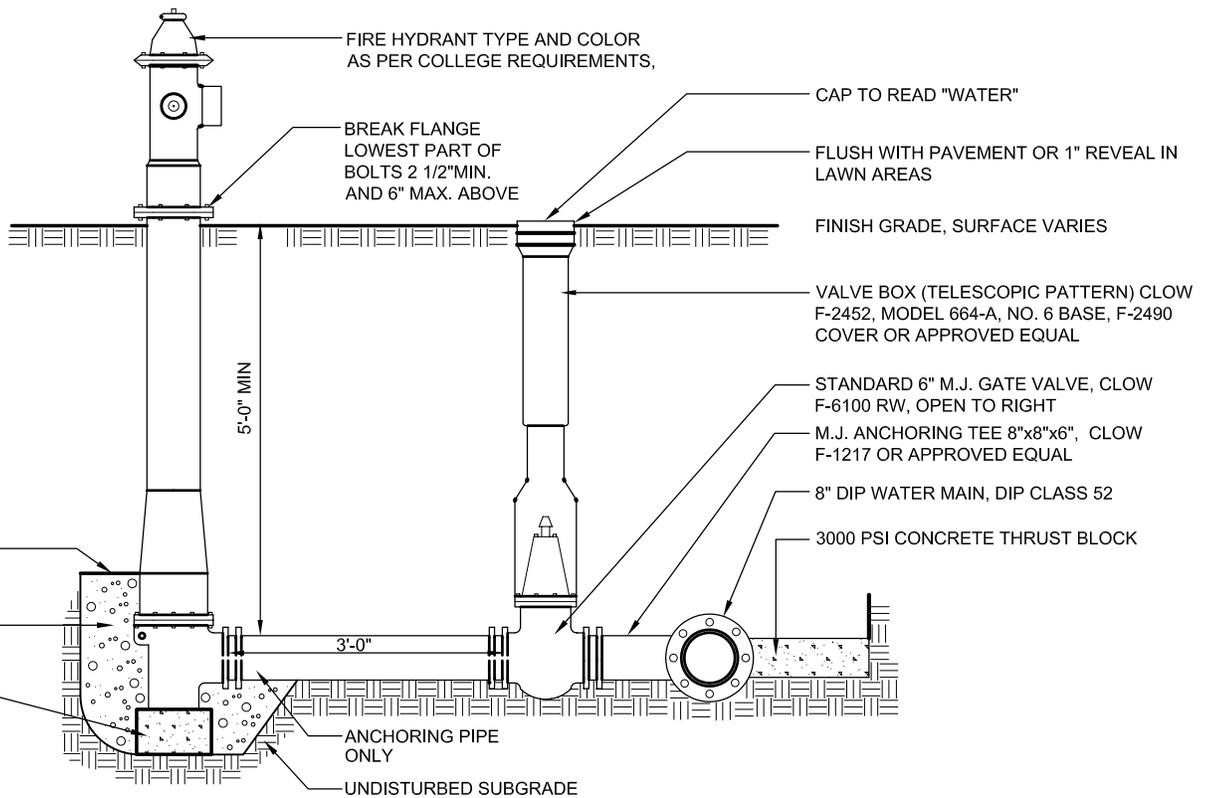
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ASKL6

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**4A** CONCRETE PAVEMENT AT BUILDING ENTRY  
NOT TO SCALE



TYPICAL IN LINE HYDRANT

6 TYPICAL FIRE HYDRANT INSTALLATION  
NOT TO SCALE

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FIRE HYDRANT

REVISIONS

NO.	DATE	DESCRIPTION	DRAWN	CHK
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ASKL8



MARVIN LIBRARY  
 LEARNING RESOURCE CENTER

CEILING  
 L42.64'

4  
 L600  
 CONCRETE PAVEMENT  
 PEDESTRIAN SECTION,  
 TYPICAL

MATCH LINE

CONCRETE  
 PAVEMENT  
 PEDESTRIAN  
 SECTION, TYP.

TRANSITION  
 CURB TYP.

FF ELEV = 276.8

CONCRETE

PLANTED AREA

17  
 L600

BLDG. OVERHANG

REPLACE CONCRETE  
 SIDEWALK,  
 PEDESTRIAN  
 SECTION, MATCH  
 EXISTING SCORING

4  
 L600

REPAIR AND  
 RESURFACE  
 END WALL TO  
 MATCH  
 EXISTING

PLANTED AREA

CONCRETE

SCORE JOINTS TO MATCH  
 EXISTING PATTERN

GRANITE CURB, TYP.

4  
 L600  
 CONCRETE  
 PAVEMENT  
 PEDESTRIAN  
 SECTION, TYPICAL

16'-0"

WOOD BENCHES ON

CONC. RET. WALL

BENCH

CONC. RET



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 QUADRANGLE

REVISED LAYOUT  
 AT MARVIN ENTRY  
 PLAZA

NO.	DATE	DESCRIPTION	DRAWN	CHK

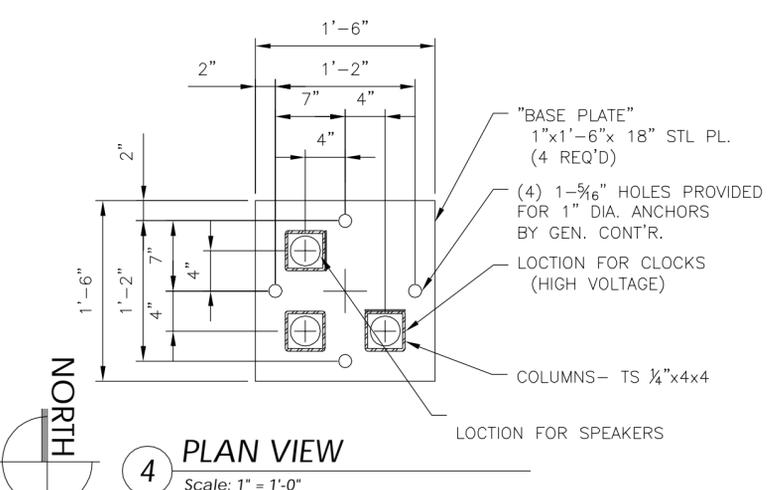
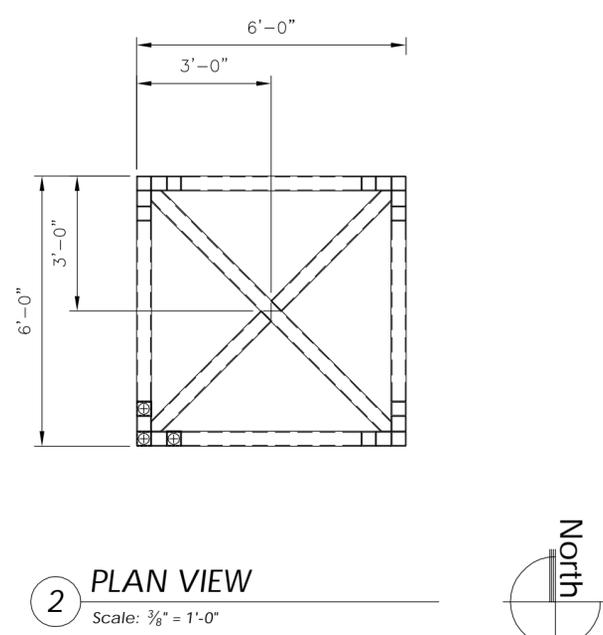
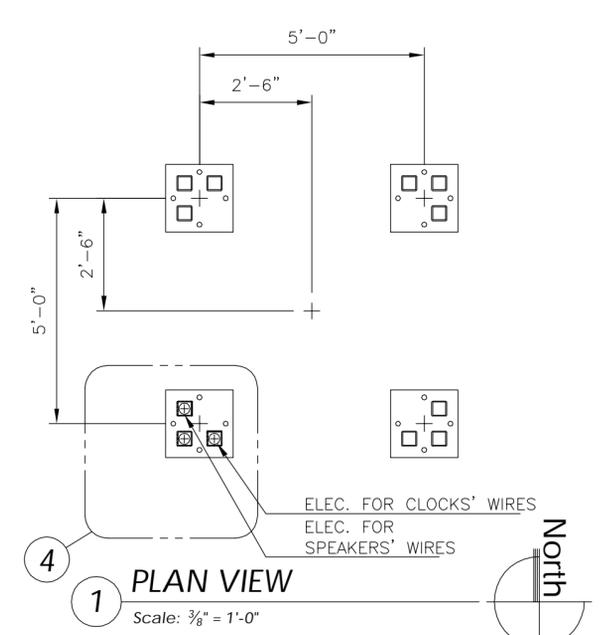
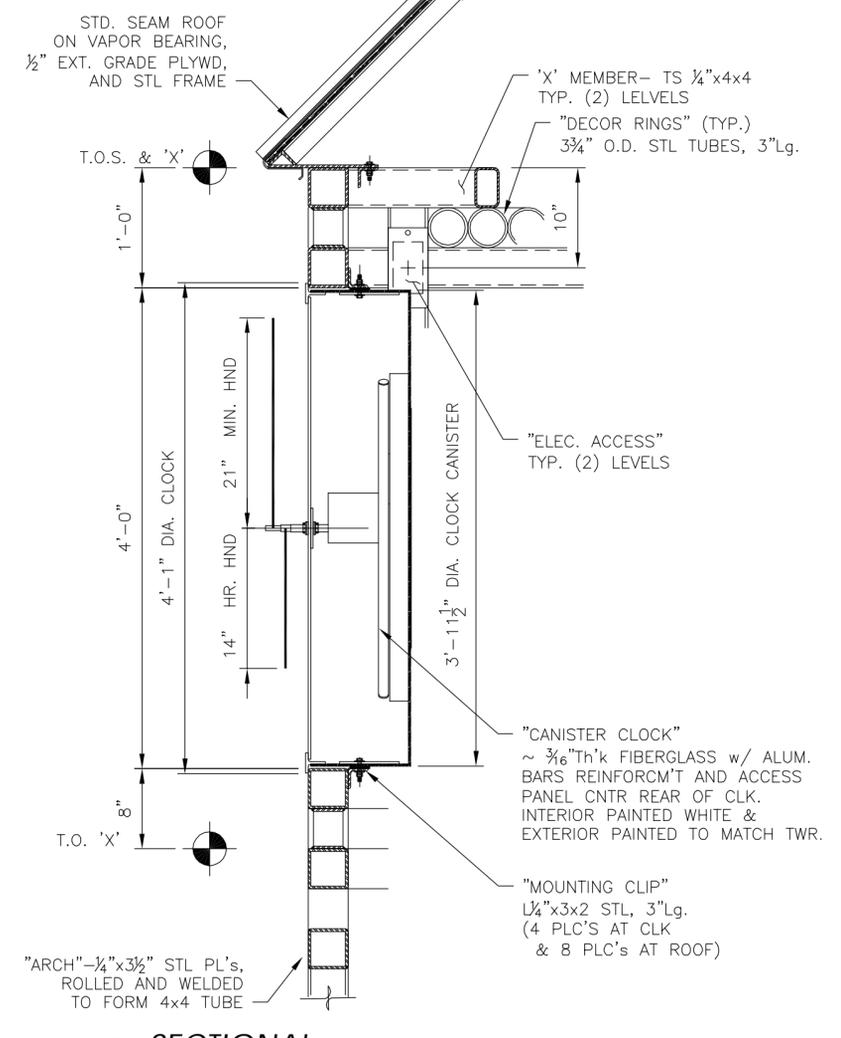
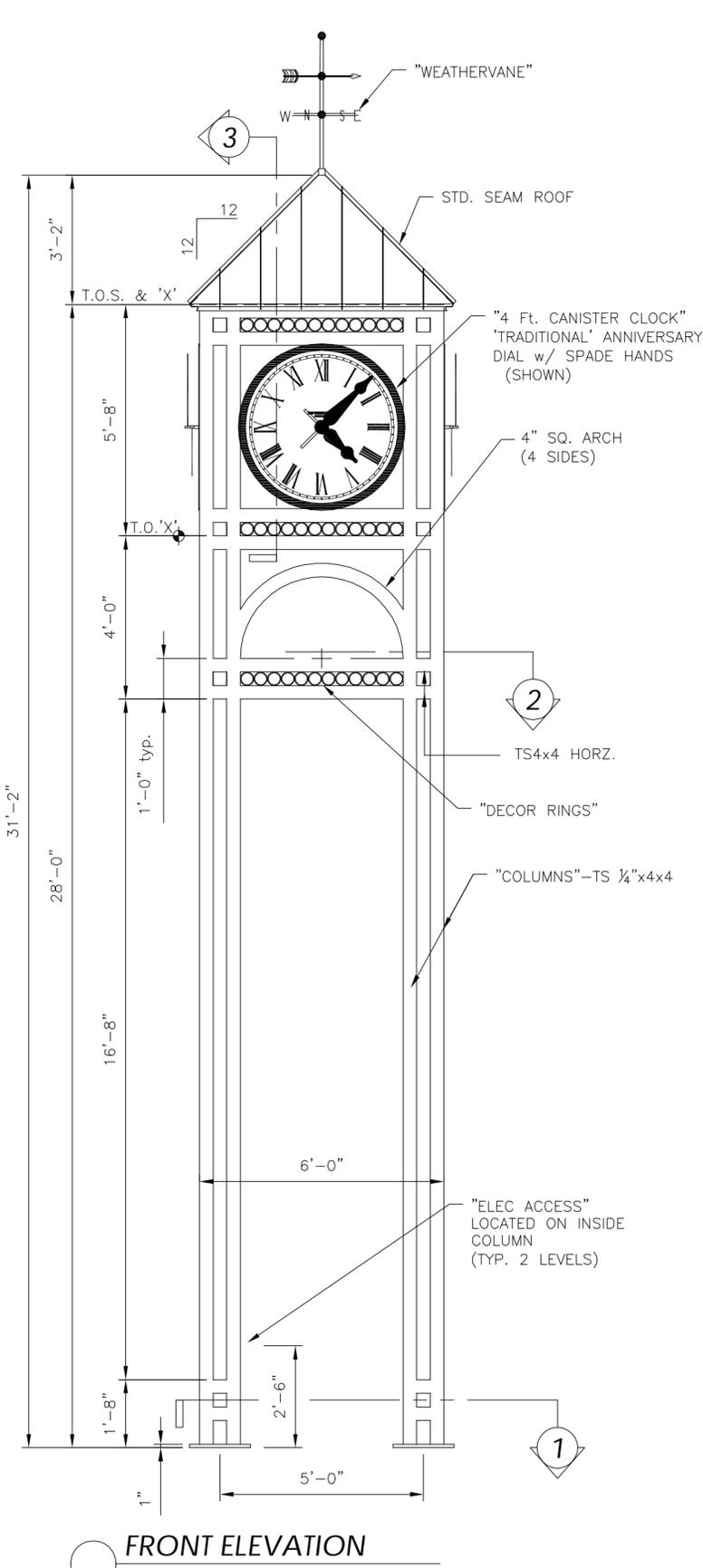
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ASKL10



- NOTES:
1. ALL ELECTRICAL WIRES, CONDUIT, DISCONNECT AND JUNCTION BOXES BY ELECTRICAL CONTRACTOR.
  2. VERIFY THE FOLLOWING BY ARCHITECT/OWNER:
    - (A) SPECIFY TOWER COLOR FINISH: \_\_\_\_\_
    - ROOF COLOR FINISH: \_\_\_\_\_
    - OR WITH COLOR SAMPLE AND/OR SPECS.
  3. THIS DRAWING IS THE PROPERTY OF THE VERDIN COMPANY AND IS ISSUED TO THE RECIPIENT WITH THE UNDERSTANDING THAT IT SHALL NOT BE COPIED, DUPLICATED, PASSED ON TO UNAUTHORIZED PARTIES, OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED EXCEPT WITH THE VERDIN COMPANY WRITTEN PERMISSION.
  4. TOWER WT.: 13,000 lbs.

**VERDIN**  
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fax 518-981-5796

**VERDIN**  
Bell & Cauffman Division  
Clock Division  
Maryland China Division  
Deagan China Division

**SINCE 1842**

30 FT. MILLENNIUM TOWER  
(4) Clocks & (4) Bell Shells

SCALE:	AS NOTED	DRAWN BY:	QLFJ	ISSUING NUMBER:	04 TWR / A
DATE:		REVISED:			C 2058 A