

**From:** [O'Neill, Christopher \(DEC\)](#)  
**To:** [Miller, Samantha](#); [Ormsbee, Daniel](#)  
**Cc:** [Leighton, Ed](#); [Keegan, Aaron \(HEALTH\)](#); [Deming, Justin H \(HEALTH\)](#); [Murphy, Michael C \(DEC\)](#)  
**Subject:** Revised Knockout Pot COU and EWP -- Approved as Revised, Sterling Drug Site 1, HW#442009  
**Date:** Tuesday, September 16, 2025 10:21:00 AM  
**Attachments:** [2025-09-09 Response to Comments COU Nitrogen Pad.pdf](#)

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The NYSDEC and NYSDOH have reviewed the September 9, 2025 attached revised Knockout Pot Change of Use/Excavation Work Plan (Knockout Pot Project COU/EWP) documentation for work at Sterling Drug Site 1 (Curia) in Rensselaer. The revised 9/9/2025 Knockout Pot Project COU/EWP is hereby approved. Please proceed with implementing this approved project plan, including the notifications to NYSDEC so that onsite inspection of the project can be scheduled.

I can be reached at 518-357-2394 if there are any questions.

Christopher O'Neill, P.E.  
NYSDEC – Schenectady  
518-357-2394

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**From:** Miller, Samantha <SMiller@chasolutions.com>  
**Sent:** Tuesday, September 9, 2025 2:38 PM  
**To:** O'Neill, Christopher (DEC) <christopher.oneill@dec.ny.gov>; Ormsbee, Daniel <daniel.ormsbee@curiaglobal.com>  
**Cc:** Keegan, Aaron (HEALTH) <Aaron.Keegan@health.ny.gov>; Deming, Justin H (HEALTH) <justin.deming@health.ny.gov>; Murphy, Michael C (DEC) <michael.murphy1@dec.ny.gov>; Leighton, Ed <ed.leighton@curiaglobal.com>; Smolen, Thomas <thomas.smolen@arcadis.com>  
**Subject:** RE: [--EXTERNAL--]: Comment Letter on Knockout Pot COU and EWP, Sterling Drug Site 1, HW#442009

*ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.*

Chris and Aaron –

Please see the attached, revised Knockout Pot Project Change of Use and Excavation Work Plan which has been modified based on the Comment Letter dated August 22, 2025.

Please let me know if you have any questions.

Thanks,  
Sam

**Samantha Miller, PE\***  
Section Manager I - Site Investigation & Remediation

**CHA**  
Office: (315) 257-7154  
[smiller@chasolutions.com](mailto:smiller@chasolutions.com)  
[www.chasolutions.com](http://www.chasolutions.com)

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\*FL, NY

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*Please note my email address has changed*

**Finding a better way.**

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**From:** O'neill, Christopher (DEC) <christopher.oneill@dec.ny.gov>  
**Sent:** Friday, August 22, 2025 1:36 PM  
**To:** Ormsbee, Daniel <daniel.ormsbee@curiaglobal.com>  
**Cc:** Keegan, Aaron (HEALTH) <Aaron.Keegan@health.ny.gov>; Deming, Justin H (HEALTH) <justin.deming@health.ny.gov>; Murphy, Michael C (DEC) <michael.murphy1@dec.ny.gov>; Leighton, Ed <ed.leighton@curiaglobal.com>; Miller, Samantha <SMiller@chasolutions.com>  
**Subject:** [--EXTERNAL--]: Comment Letter on Knockout Pot COU and EWP, Sterling Drug Site 1, HW#442009

Please see attached comment letter for the Knockout Pot Project Change of Use and Excavation Work Plan at Sterling Drug Site 1 (site #442009) in Rensselaer. I can be reached at 518-357-2394 if there are any questions.

Christopher O'Neill, P.E.  
NYSDEC -- Schenectady  
518-357-2394



September 9, 2025

New York State Department of Environmental Conservation  
Division of Environmental Remediation – Region 4  
1130 North Westcott Road  
Schenectady, New York 12306  
Attn: Mr. Christopher O’Neill, P.E.

**RE: Comment Response – Change of Use and Excavation Work Plan  
2025 Knockout Pot Project  
Curia New York, 33 Riverside Avenue, Rensselaer, New York  
Sterling Drug Site #1 NYSDEC Inactive Hazardous Waste Site Number 442009  
CHA Project Number: 075104.001**

Dear Mr. O’Neill:

On behalf of Curia New York (Curia), please find an enclosed copy of the Revised Change of Use and Excavation Work Plan for the 2025 Knockout Pot Project at the Sterling Drug Site 1 site. The document has been revised in accordance with the comments provided in the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) comment letter dated August 22, 2025. The NYSDEC/NYSDOH comments and CHA responses are summarized below:

**Comment A:** Cover letter, 1<sup>st</sup> Paragraph – Please change the reference to the 2022 approved excavation work plan to the NYSDEC-approved 2022 Building 9 Plus Expansion Project Excavation Work Plan.

**Response A:** *This edit has been made to the cover letter.*

**Comment B:** Cover letter, 1<sup>st</sup> Paragraph, 4<sup>th</sup> bullet item – Please change the covering of roll-offs to covering when active loading has stopped, or at the end of each workday, or prior to a rain event, whichever is soonest.

**Response B:** *This edit has been made to the cover letter.*

**Comment C:** Cover letter, 1<sup>st</sup> Paragraph, 6<sup>th</sup> bullet item – Please add the following regarding the CAMP data and reporting: NYSDEC and NYSDOH project managers must be notified of monitoring results which exceed the action levels set by the CAMP, including the duration and actions taken in response to any such exceedance. These notifications must be provided to the NYSDEC and NYSDOH as soon as possible, within one business day of the exceedance.

**Response C:** *The following note has been added to the cover letter, “NYSDEC and NYSDOH project managers will be notified of monitoring results which exceed the action levels set by the CAMP, including the duration and actions taken in response to any such exceedance. These notifications will be provided to the NYSDEC and NYSDOH as soon as possible, within one business day of the exceedance”.*

**Comment D:** Cover letter, 1<sup>st</sup> Paragraph, 7<sup>th</sup> bullet item – Based on the NSYDEC/NYSDOH/Curia/CHA conference call on 8/13/2025, the backfill is undetermined as to whether it will be imported stone or flowable fill. Please indicate that the 2 options (and others if still undefined) for backfill are being finalized, and that if the imported stone option is not used then no imported stone will be brought to the site. If there is a combination of backfill materials and less of the imported stone will be needed, then the amount brought to the site will be reduced commensurate with the project needs even though the full 30 cubic yards would get NYSDEC approval based on the 'Request to Import' form.

**Response D:** *After the meeting on 8/13/2025, CHA received clarification from the contractor that they no longer plan to utilize flowable fill as backfill for the project. Only NYSDOT No. 1&2 Stone will be utilized and therefore a request for 30 cubic yards of imported material was submitted. The attached 'Request to Import' form is accurate, and 30 cubic yards is being requested.*

**Comment E:** Cover Letter, 1<sup>st</sup> Paragraph, 7<sup>th</sup> bullet item – Please clarify that the imported stone backfill material or the alternative flowable fill represent the backfill material identified as "Drainage Fill for Frost Heave Mitigation" on the construction drawing #6483.

**Response E:** *CHA has confirmed that the requested imported stone meets the requirement of the "Drainage Fill for Frost Heave Mitigation" noted on construction drawing #6483.*

**Comment F:** Construction Drawings #6481 – "General Notes" item F refers to sheet 6482 for "Excavation, Foundation, and Slab on Grade Notes" for NYSDEC-related requirements for soil management and backfill, but the proper reference is sheet #6479.

**Response F:** *The reference on Construction Drawings #6481 has been corrected.*

**Comment G:** Construction Drawings #6483 – "General Notes" item E refers to sheet 6482 for "Excavation, Foundation, and Slab on Grade Notes" for NYSDEC-related requirements for soil management and backfill, but the proper reference is sheet #6479.

**Response G:** *The reference on Construction Drawings #6483 has been corrected.*

**Comment H:** Change of Use Form – The Change of Use notification requirements under 6 NYCRR Part 375 call for 60 days prior notice. The Knockout Pot COU and EWP notification document was submitted to NYSDEC on 8/13/2025 for a "Proposed Date of Change" of 9/1/2025, which is merely 19 days prior notice. Please take particular note of the regulatory requirements for 60 days prior notice for such projects and provide for the required notification period in project scheduling. Also, please recognize that the 60-day notice may result in NYSDEC comments and document revisions/re-submittals which may extend the project beyond the 60-day time frame.

**Response H:** *We have received this comment and appreciate your quick review and response for this project. We will relay this message to project teams as they prepare timelines.*



If you have any questions or concerns, please feel free to contact me at (315) 257-7154.

Sincerely,

  
Samantha J. Miller, P.E.  
Senior Engineer V





September 3, 2025

New York State Department of Environmental Conservation  
Chief, Site Control Section  
Division of Environmental Remediation  
625 Broadway  
Albany, New York 12233-7020

**RE: Change of Use Notification – 2025 Knockout Pot Project  
Curia New York, 33 Riverside Avenue, Rensselaer, New York  
Sterling Drug Site #1 NYSDEC Inactive Hazardous Waste Site Number 442009  
CHA Project Number: 075104.001**

Dear Chief, Site Control Section:

On behalf of Curia New York (Curia), please find an enclosed copy of the 60-Day Advance Notification of Site Change of Use (Attachment 1) as required by 6 NYCRR Part 375 for the excavation of the foundation for a Knockout Pot near the southeast corner of Building 9. The work is anticipated to be completed under the NYSDEC-approved 2022 [Building 9 Plus Expansion Project](#) Excavation Work Plan. A summary of the intended scope of work is as follows:

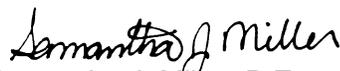
- Excavation of approximately 30 cubic yards (CY) of soil in the location shown on the figure in Attachment 2 and on the drawings included in Attachment 3.
- Anticipated project dimensions are 14.5-feet by 7-feet with an additional 2-feet of over excavation on sides where feasible. The overall depth is approximately 4-feet below ground surface (bgs).
- Documentation samples will be collected at the following frequency, as specified in the 2022 Excavation Work Plan:
  - Excavations less than 20 feet in perimeter, one bottom sample and one sidewall sample biased in the direction of surface runoff.
  - Excavations 20 to 300 feet in perimeter, one sample from the bottom of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
    - Soil samples will be analyzed for the following parameters:
      - TCL VOCs via USEPA Method 8260
      - TCL SVOCs via USEPA Method 8270
      - TAL Arsenic via USEPA Method 6010
    - In addition to the parameters above, one soil sample will also be analyzed for per-and polyfluoroalkyl substances (PFAS) and 1,4-dioxane in accordance with the NYSDEC Sampling, Analysis, and Assessment of Per-and Polyfluoroalkyl Substances April 2023 guidance document.
  - It is anticipated that a total of 3 samples (2 sidewall and 1 bottom) will be collected.
- Soil excavated as part of this project will be placed into lined roll-offs that are covered [when active loading has stopped](#), at the end of each workday, or prior to a rain event.

whichever is soonest. Once excavation is complete, one composite soil sample will be collected from the roll off, and analyzed for the following parameters for waste characterization purposes:

- Toxicity Characteristic Leaching Procedure (TCLP) Volatile organic compounds (VOCs) via USEPA Method 8260
  - TCLP Semi-volatile organic compounds (SVOCs) via USEPA Method 8270
  - TCLP Resource Conservation and Recovery Act (RCRA) 8 metals via USEPA Methods 6010/7471
  - Total polychlorinated biphenyls (PCBs) via USEPA Method 8082
  - Reactivity
  - Corrosivity
  - Ignitability
- Data will be utilized to prepare a Contained In Request for approval by the Division of Materials Management and a waste profile for disposal at the Colonie Landfill.
  - Community air monitoring will be performed during all intrusive activities from one (1) upwind location and one (1) downwind location. Air monitoring data will submitted to NYSDEC and NYSDOH on a weekly basis and will include a project location map which identifies the location of each CAMP unit for each day of intrusive activities.
    - NYSDEC and NYSDOH project managers will be notified of monitoring results which exceed the action levels set by the CAMP, including the duration and actions taken in response to any such exceedance. These notifications will be provided to the NYSDEC and NYSDOH as soon as possible, within one business day of the exceedance.
  - It is anticipated that the excavation will be backfilled with NYSDOT #1 & #2 mixed stone. The stone will be imported from R.J. Valente quarry in trucks which are covered with tightly fitting tarps. A request to import up to 30 CY of stone is included in this notification (Attachment 4).
  - In addition to this notification, the NYSDEC and NYSDOH will be provided a minimum of five (5) days notice prior to starting any intrusive activities. It is anticipated that this project will begin in early September. The anticipated duration is 1 day to sawcut the pavement, 1 day for excavation, and 1 day for backfill. Should unforeseen conditions arise which extend the project duration, it will be communicated at that time.
  - Excavation work completed as part of this project will be summarized in a report for NYSDEC and NYSDOH for review and approval within 90 days after the intrusive activities detailed herein are complete.

If you have any questions or concerns, please feel free to contact me at (315) 257-7154.

Sincerely,



Samantha J. Miller, P.E.  
Senior Engineer V



cc: Daniel Ormsbee, Curia [Daniel.ormsbee@curiaglobal.com](mailto:Daniel.ormsbee@curiaglobal.com)  
Christopher O'Neill, PE, NYSDEC [Christopher.oneill@dec.ny.gov](mailto:Christopher.oneill@dec.ny.gov)  
Aaron Keegan, NYSDOH [Aaron.Keegan@health.ny.gov](mailto:Aaron.Keegan@health.ny.gov)

*V:\Projects\ANY\K7\075104.001\06\_Project\_Data\Other\Change of Use Notifications\Knockout Pot\2025-09-03\_Knockout Pot Change of Use.docx*



**Attachment 1**  
*60 Day COU Form*



**Department of  
Environmental  
Conservation**

## 60-Day Advance Notification of Site Change of Use

**Physical Alteration, Transfer of Certificate of Completion, and/or Ownership Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)**

### **SUBMITTAL INSTRUCTIONS:**

Please submit via Site Control Dropbox as described below, OR, if file size permits, by email to [DERSiteControl@dec.ny.gov](mailto:DERSiteControl@dec.ny.gov). Print to pdf before submitting.

You may submit your document(s) via ground mail at the address below however please – DO NOT submit both electronic and ground mail.

#### a.) VIA SITE CONTROL DROPBOX:

Request an Invitation

In the "Title" field, please include the following: "Change of Use – Site Name, Site # \_\_\_\_\_.

After uploading files, an automated email will be sent to the submitter's email address with a link to verify the status of the submission. Please do not send a separate email to confirm receipt.

Packages submitted through third-party file transfer services will not be accepted.

#### b.) VIA GROUND MAIL:

Save the COU form w/attached file(s) and cover letter (optional) to an external storage device (e.g., thumb drive, flash drive). Do NOT include any paper.

Mail the external storage device to the following address:

Chief, Site Control Section  
Division of Environmental Remediation  
625 Broadway, 12th Floor  
Albany, NY 12233-7020

### **Section I: Property Information**

Site Name: Sterling Drug Site 1 (Curia New York)

DEC Site # HW442009

Site Address: 33 Riverside Avenue, Rensselaer, New York 12144

### **Section II: Contact Information Person Submitting Notification**

Name: Samantha Miller, PE

Address 1: 300 South State Street, Suite 600, Syracuse, New York 13202

Address 2:

Phone: 315-257-7154

E-mail: [smiller@chasolutions.com](mailto:smiller@chasolutions.com)

### **Section III: Type of Change and Date**

Change of Ownership

Change of Remedial Parties

Transfer of Certificate of Completion

Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy) late September - on or around (09/22/2025)

**Section IV: Description of Proposed Change (Required)**

Please provide a brief narrative of the proposed changes(s) indicated above. Attach maps, drawings, and/or parcel information as needed. If "other" the description must explain and advise the DEC how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

Installation of the foundation for a knockout pot near the southeast corner of Building 9 at the facility (see attached location map). Construction drawings for the anticipated excavation are also attached.

The excavation depth is anticipated to be a maximum of 4-feet below grade and has the potential to encounter contaminated soil and/or groundwater, thereby creating a potential for exposure to site contaminants may be present. The existing on site groundwater treatment system will not be impacted by these activities. No groundwater monitoring wells or piezometers are located within the work zone. Soil and groundwater (if encountered) will be managed in accordance with the attached work plan.

**Section V: Certification Statement**

Where the change results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative: see § 375-1.11(d)(4)(i):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: \_\_\_\_\_ (Signature) \_\_\_\_\_ (Date)

\_\_\_\_\_  
(Print Name)

Address1: \_\_\_\_\_

Address2: \_\_\_\_\_

Phone: \_\_\_\_\_ Email : \_\_\_\_\_

## Attachment 2

*Figure – Knockout Pot Project*



KNOCKOUT POT PROJECT  
NYSDEC SITE NO. 442009  
CURIA NEW YORK  
33 RIVERSIDE AVENUE  
RENSSELAER, NEW YORK

PROJECT NO.  
075104.001  
DATE: 08/2025  
FIGURE 1

**Attachment 3**  
*Project Drawing Details*

## GENERAL NOTES

- THE PURPOSE OF THESE GENERAL NOTES IS TO INFORM THE CONTRACTOR OF THE STRUCTURAL DESIGN CRITERIA INCLUDING DESIGN LOAD VALUES AND MATERIAL STRENGTHS, MINIMUM INFORMATION REQUIRED ON SHOP DRAWINGS, AND MISCELLANEOUS ITEMS NOT SHOWN OR SPECIFIED ELSEWHERE.
- BEFORE BEGINNING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY EXISTING CONDITIONS, COMPARE RESULTS WITH INFORMATION GIVEN ON THE CONTRACT DRAWINGS, AND IMMEDIATELY REPORT ANY INCONSISTENCIES TO THE ENGINEER.
- DIMENSIONS SHOWN LOCATING EXISTING ELEMENTS SUCH AS WALLS, COLUMNS, BEAMS, ETC. WERE OBTAINED FROM EXISTING DRAWINGS OR BY FIELD MEASUREMENTS TAKEN WITHOUT THE USE OF SURVEYING INSTRUMENTS. EXACT DIMENSIONS AND ELEVATIONS ARE TO BE DETERMINED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, OR RELOCATING ALL SERVICE AND UTILITY LINES IN THE VICINITY OF THE WORK. ALL EXCAVATIONS NEAR THESE LINES SHALL BE CARRIED OUT WITH EXTREME CAUTION.
- THE CONTRACTOR SHALL COORDINATE STRUCTURAL WORK WITH ALL OTHER DISCIPLINES INVOLVED IN THIS PROJECT. COORDINATION INCLUDES LOCATING THICKENED SLABS, DRAINS, SLOPES, ANCHOR BOLT SETTINGS, EMBEDDED STEEL PLATES, SLEEVES FOR PIPING, CONDUIT, ETC. BEFORE CONSTRUCTION BEGINS. THE LOCATION AND SIZES OF OPENINGS AND SLEEVES IN STRUCTURAL MEMBERS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS BEFORE COMMENCEMENT OF THE WORK.
- STRUCTURAL MEMBERS HAVE BEEN DESIGNED TO ACCOMMODATE THE MECHANICAL AND ELECTRICAL EQUIPMENT AND OPENINGS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL ANY SUBSTITUTIONS TO THE ELECTRICAL AND MECHANICAL SYSTEMS WHICH RESULT IN REVISIONS TO THE STRUCTURE.
- WHERE NEW AND EXISTING STRUCTURAL FEATURES INTERFACE, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURES THAT ARE RELEVANT TO THIS PROJECT. THESE DIMENSIONS SHALL BE SHOWN ON THE SHOP DRAWINGS AT THE TIME OF SUBMISSION TO THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF FIELD CONDITIONS WHICH ARE IN CONFLICT WITH THE STRUCTURAL CONTRACT DOCUMENTS.
- THESE CONTRACT DRAWINGS SHALL NOT BE SCALED FOR THE PURPOSE OF ESTABLISHING DIMENSIONS. THE CONTRACTOR SHALL OBTAIN UNCLAR DIMENSIONS FROM THE ENGINEER THROUGH RFIS OR REQUESTS ON THE SHOP DRAWINGS.
- STRUCTURAL DESIGN INFORMATION

THIS PROJECT IS DESIGNED IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE WHICH REFERENCES THE FOLLOWING BUILDING CODES:

INTERNATIONAL BUILDING CODE - 2018 EDITION  
ASCE 7-16 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"

RISK CATEGORY OF BUILDING/STRUCTURE

II

THE DESIGN DEAD LOADS FOR THIS PROJECT ARE AS FOLLOWS:

UTILITY RACK DEAD LOAD 30 PSF (EQUIVALENT TO ONE ROW OF 8"Ø PIPES FILLED W/WATER, W/2" INSULATION, SPACED WITH 1" GAP BTWN) EQUIPMENT & UTILITY LOADS ACTUAL WEIGHT OF EQUIPMENT

THE DESIGN GRAVITY UNREDUCED LIVE LOADS FOR THIS PROJECT ARE AS FOLLOWS:

UTILITY RACK LIVE LOAD 20 PSF (EQUIVALENT TO ONE ROW OF 8"Ø PIPES FILLED W/WATER, W/2" INSULATION, SPACED WITH 1" GAP BTWN)

THE SNOW LOAD CRITERIA FOR THIS PROJECT ARE AS FOLLOWS:

GROUND SNOW LOAD (p<sub>g</sub>) 40 PSF  
SNOW EXPOSURE FACTOR (C<sub>e</sub>) 0.9  
THERMAL FACTOR (C<sub>t</sub>) 1.20  
SNOW IMPORTANCE FACTOR (I<sub>s</sub>) 1.00  
FLAT ROOF SNOW LOAD (p<sub>f</sub>) 30 PSF

THE WIND LOAD DESIGN CRITERIA FOR THIS PROJECT ARE AS FOLLOWS:

BASIC WIND SPEED (3 SECOND GUST) (V) 105 MPH  
ENCLOSURE CLASSIFICATION OPEN  
WIND EXPOSURE CATEGORY C

THE SEISMIC DESIGN CRITERIA FOR THIS PROJECT ARE AS FOLLOWS:

SEISMIC IMPORTANCE FACTOR (I<sub>s</sub>) 1.00  
MAPPED SPECTRAL RESPONSE ACCELERATION (S<sub>s</sub>) 0.06  
MAPPED SPECTRAL RESPONSE ACCELERATION (S<sub>1</sub>) 0.12  
SITE CLASS D (PRESUMED)  
SPECTRAL RESPONSE COEFFICIENT (S<sub>w</sub>) 0.13  
SPECTRAL RESPONSE COEFFICIENT (S<sub>u</sub>) 0.10  
SEISMIC DESIGN CATEGORY B  
ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE  
BASIC STRUCTURAL SYSTEM CANTILEVERED COLUMN AT UTILITY RACKS, STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE AT OTHERS (ASCE-7 TABLE 12.2-1, H)  
RESPONSE MODIFICATION COEFFICIENT (R) 1.25/3.0  
SEISMIC RESPONSE COEFFICIENT (C<sub>s</sub>) 0.04/0.10

CONTROLLING LATERAL DESIGN LOAD CASE

WIND

SPECIAL INSPECTIONS REQUIRED

[YES/NO]

- THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADS ONLY. THE STRUCTURE IS NOT SELF-SUPPORTING FOR LATERAL EARTH, WIND, OR SEISMIC FORCES UNTIL ALL ROOF DIAPHRAGMS, FLOOR DIAPHRAGMS, LATERAL BRACING, AND SHEAR WALLS ARE INSTALLED AND THEIR CONNECTIONS COMPLETED AS INDICATED ON THE CONTRACT DRAWINGS. THE METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWING SUBMITTALS TO THE ENGINEER FOR APPROVAL. DO NOT PERMIT SUBMITTALS MARKED "REJECTED" OR "REVISE AND RESUBMIT" TO BE USED IN THE WORK. SUBMITTALS SHALL BE PROVIDED FOR THE FOLLOWING:
  - CONCRETE MIX DESIGNS
  - CONCRETE REINFORCING STEEL STRUCTURAL STEEL
- ALL SUBMITTALS SHALL BEAR THE CONTRACTOR'S STAMP WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING/DOCUMENT FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- THE OWNER WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY TO PERFORM FIELD QUALITY INSPECTIONS AND TESTS RELATED TO THE FOLLOWING:
  - SUBGRADE FOR CONCRETE POURS
  - CONCRETE SAMPLING AND TESTING
  - STRUCTURAL BOLTED AND WELDED CONNECTIONS

THE OWNER WILL PAY THE COSTS OF INITIAL TESTING. COST RELATING TO RETESTING DUE TO FAILURES OF INITIAL TESTS SHALL BE PAID FOR BY THE CONTRACTOR. SUBMIT PERIODIC INSPECTION REPORTS TO THE ENGINEER AND OWNER FOR RECORD AND SUBMIT A FINAL INSPECTION REPORT TO THE ENGINEER AND OWNER FOR RECORD, DOCUMENTING INSPECTIONS PERFORMED, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS. THE FINAL REPORT SHALL INDICATE THAT THE WORK INSPECTED IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

## CAST IN PLACE CONCRETE NOTES

- DESIGN, TRANSPORTATION, AND PLACEMENT OF ALL CAST-IN-PLACE CONCRETE AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF:
  - ACI 301 (SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS)
  - ACI 315 (DETAILS AND DETAILING OF CONCRETE REINFORCING)
  - ACI 315R (GUIDE TO PRESENTING REINFORCING STEEL DESIGN DRAWINGS)
  - ACI 318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE)
  - THE CRSI "MANUAL OF STANDARD PRACTICE (FOR DETAILING REINFORCED CONCRETE STRUCTURES)
- CONCRETE FOR SLABS ON GRADE SHALL BE NORMAL WEIGHT (DENSITY=145 PCF) CONCRETE CONSISTING OF TYPE II PORTLAND CEMENT CONFORMING TO ASTM C150. ALL OTHER CONCRETE SHALL BE NORMAL WEIGHT (DENSITY=145 PCF) CONCRETE CONSISTING OF TYPE II PORTLAND CEMENT CONFORMING TO ASTM C150. AGGREGATES SHALL CONFORM TO ASTM C33.
- CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:
 

FOUNDATIONS	
SPECIFIED COMPRESSIVE STRENGTH	4,500 PSI
MAXIMUM WATER/CEMENT RATIO BY WEIGHT	0.45
MAXIMUM SIZE OF AGGREGATE	1 1/2"
MAXIMUM SLUMP AT POINT OF DISCHARGE	5" ± 1"
- ALL EXPOSED EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED WITH AN AIR CONTENT OF 4 TO 6 PERCENT. ALL INTERIOR CONCRETE SHALL NOT BE AIR-ENTRAINED AND TO HAVE AN AIR CONTENT OF 1.0%±1.0% (NATURAL AIR)
- WATER SHALL NOT BE ADDED TO THE CONCRETE AT THE PROJECT SITE. ADDITIONAL WATER SERIOUSLY REDUCES CONCRETE STRENGTH AND INCREASES SHRINKAGE. REQUEST A "HIGH RANGE WATER REDUCER" (SUPERPLASTICIZER), THAT MAY BE ADDED AT THE PROJECT SITE, FOR MORE WORKABLE CONCRETE.
- USE OF CALCIUM CHLORIDE, CALCIUM IONS, OTHER SALTS AND ADMIXTURES CONTAINING THESE ITEMS IN CONCRETE IS NOT PERMITTED.
- ALL CONCRETE MIX DESIGNS FOR THE PROJECT SHALL BE SUBMITTED FOR REVIEW.
- ALL DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- WELDED WIRE REINFORCING SHALL CONFORM TO ASTM A185. FURNISH IN SHEETS OR MATS.
- SHOP DRAWINGS FOR THE REINFORCING STEEL DETAILING THE LOCATION, SIZE, BENT SHAPE AND TYPE OF REINFORCING SHALL BE SUBMITTED FOR REVIEW. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE CRSI "MANUAL OF STANDARD PRACTICE (FOR DETAILING REINFORCED CONCRETE STRUCTURES)", ACI 315 AND ACI 135R.
- UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" - ACI 315 AND CRSI.
- SPLICES FOR REINFORCING BARS SHALL BE CLASS "B" LAP SPLICES CALCULATED USING THE APPROPRIATE ACI CATEGORY, UNLESS NOTED OTHERWISE.
- EMBED ENDS OF BARS FOR FULL TENSION DEVELOPMENT LENGTH, UNLESS OTHERWISE DETAILED.
- HOOKS AT ENDS OF BARS SHALL BE ACI STANDARD 90 DEGREE HOOKS UNLESS NOTED OTHERWISE.
- ALL REINFORCING BAR SPLICE LENGTHS AND LOCATIONS, EMBEDMENT LENGTHS, HOOKS, ETC., SHALL BE MADE AS SHOWN ON THE DRAWINGS. DEVIATIONS SHALL ONLY BE MADE UPON APPROVAL OF THE ENGINEER.

## CAST IN PLACE CONCRETE NOTES (CONT)

- REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE:
  - CONCRETE CAST AGAINST EARTH (NOT FORMED) 3"
  - FORMED CONCRETE EXPOSED TO EARTH, LIQUID OR WEATHER:
 

SLAB AND JOIST WITH #5 BARS AND SMALLER	1 1/2"
SLAB AND JOIST WITH #6 BARS AND LARGER	2"
BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, AND BASE SLAB	2"
  - FORMED CONCRETE NOT EXPOSED TO EARTH, LIQUID, OR WEATHER:
 

SLAB AND JOIST	3/4"
BEAMS, PIERS, AND COLUMNS	1 1/2"
WALLS	3/4"
FOOTINGS AND BASE SLAB	2"
- WELDING OF REINFORCEMENT IS PROHIBITED UNLESS OTHERWISE INDICATED AND DETAILED ON THE STRUCTURAL DRAWINGS. WHEN REINFORCING STEEL IS WELDED ALL WORK SHALL BE IN ACCORDANCE WITH AND CONFORM TO AWS D1.4 STRUCTURAL WELDING CODE - STEEL REINFORCING BARS.
- UNLESS OTHERWISE DETAILED, PROVIDE CORNER BARS AT ALL WALL AND CURB CORNERS. BARS SHALL BE 48 BAR DIAMETERS X 48 BAR DIAMETERS LONG, AND SHALL BE THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS THAT THEY ARE LAPPING.
- ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. PROVIDE BAR SUPPORTS, CHAIRS, SPACERS, AND TIES AS NEEDED. CONTRACTOR IS CAUTIONED THAT CARE MUST BE EXERCISED TO PREVENT EXPOSURE OF TIE WIRE OR OTHER MATERIAL WHICH MAY CAUSE STAINING OF EXPOSED CONCRETE. PROPER COVER SHALL BE MAINTAINED ON ALL REINFORCEMENT.
- PROVIDE ONE #5 (MINIMUM) BAR AT EACH FACE ON ALL FOUR SIDES OF CONCRETE WALL OPENINGS EXCEEDING 12 INCHES IN THE LARGEST DIMENSION. EXTEND ENDS OF BARS 48 BAR DIAMETERS BEYOND OPENINGS.
- PROVIDE TWO #4 DIAGONAL BARS X 3'-0" LONG IN THE TOP FACE OF ALL SLABS AT ALL REINFRANT CORNERS. AT THE FLANGES OF PROJECTING POSTS AND COLUMNS, AND AROUND FLOOR DRAINS. CENTER THE BARS ON THE CORNERS OR PROJECTIONS ABOVE THE SLABS.
- INTERSECTING WALLS, IF POURED SEPARATELY, SHALL BE KEYED AND DOWELED TOGETHER WITH BARS OF THE SAME SIZE AND SPACING AS HORIZONTAL WALL REINFORCING.
- NO REINFORCING FOR SLABS ON GRADE, FOUNDATIONS, ETC. SHALL BE PLACED UNTIL ALL UNDERGROUND WORK HAS BEEN INSTALLED, TESTED, AND INSPECTED BY THE LOCAL AUTHORITY.
- NO CONCRETE SHALL BE PLACED UNTIL ALL EMBEDDED AND ALL UNDERGROUND WORK HAS BEEN INSTALLED AND INSPECTED.
- REFER TO DRAWINGS OF OTHER TRADES FOR PENETRATIONS IN CONCRETE WALLS, FLOORS, AND ROOFS REQUIRING SLEEVES OR OTHER EMBEDDED ITEMS NOT SHOWN.
- REFER TO ELECTRICAL DRAWINGS FOR GROUNDING DETAILS.
- FOR ALL MAJOR FOUNDATIONS, MAJOR EQUIPMENT FOUNDATIONS, WALLS, AND ELEVATED FLOORS, REINFORCING SHALL BE APPROVED BY THE ENGINEER OR A THIRD-PARTY INSPECTOR PRIOR TO CLOSING OF FORMS AND CONCRETE PLACEMENT. THIS APPROVAL SHALL NOT BE CONSTRUED TO RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PLACE ALL REINFORCEMENT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL GIVE THE ENGINEER OR A THIRD-PARTY INSPECTOR A MINIMUM OF 48 HOURS ADVANCE NOTICE OF STARTING TIME OF EACH CONCRETE PLACEMENT.
- PREPARE, PLACE, AND FINISH CONCRETE IN ACCORDANCE WITH ACI 301 "STRUCTURAL CONCRETE FOR BUILDINGS" AND IN ACCORDANCE WITH ACI 305R "HOT WEATHER CONCRETING" AND ACI 306R "COLD WEATHER CONCRETING" AS APPLICABLE.
- LOCALLY DEPRESS BOTTOM OF FOOTINGS AS REQUIRED AT ANCHOR BOLTS TO PROVIDE 3 INCH MINIMUM COVER TO BOTTOM OF ANCHOR BOLTS.
- ANCHOR ROD SETTING PLANS AND ANCHOR RODS SHALL BE FURNISHED BY THE STEEL FABRICATOR. THE ANCHOR RODS SHALL BE SET BY THE CONTRACTOR FOR THE FOUNDATIONS IN ACCORDANCE WITH AISC 303, CODE OF STANDARD PRACTICE. ANCHOR ROD TEMPLATES SHALL BE FURNISHED BY THE CONTRACTOR FOR THE FOUNDATIONS AND USED IN SETTING THE ANCHOR RODS.
- FINISH FLOOR SLABS IN ACCORDANCE WITH ACI 302.1R AND ACI 117, WITH MINIMUM FLATNESS F=25 AND MINIMUM LEVELNESS F=20 (MODERATELY FLAT).
- UNLESS OTHERWISE NOTED, CHAMFER ALL EXPOSED CONCRETE CORNERS WITH A 3/4 INCH X 45 DEGREE CHAMFER.
- AN INDEPENDENT TESTING AGENCY SHALL PERFORM TESTING OF FIELD-PLACED CONCRETE. THE AGENCY SHALL PREPARE, STORE, AND TEST ALL CONCRETE TEST CYLINDERS IN ACCORDANCE WITH ACI 301 AND ASTM C172, C31, AND C39. AT LEAST ONE COMPLETE SET OF TEST CYLINDERS SHALL BE PREPARED EACH 100 CUBIC YARDS OF CONCRETE PLACED, A MINIMUM OF ONE SET OF TEST CYLINDERS SHALL BE PREPARED FOR EACH DAY CONCRETE IS PLACED. A SET CONSISTS OF FIVE TEST CYLINDERS: ONE CYLINDER TO BE TESTED AT 7 DAYS AND 3 CYLINDERS TO BE TESTED AT 28 DAYS AND ONE TO BE USED FOR ADDITIONAL TESTING AS NECESSARY. NOTIFY ENGINEER IMMEDIATELY IF ANY OF THE 7 DAY TESTS ARE LESS THAN 65 PERCENT OF THE SPECIFIED STRENGTH AND IF ANY OF THE 28 DAY STRENGTH TESTS FALLS BELOW THE SPECIFIED STRENGTH. IN ADDITION, SLUMP, AIR CONTENT, AND CONCRETE TEMPERATURE MEASUREMENTS SHALL BE TAKEN.

## EXCAVATION, FOUNDATION, AND SLAB ON GRADE NOTES

- A MINIMUM OF 60 DAYS PRIOR TO ANY GROUND INTRUSIVE ACTIVITIES, THE CONTRACTOR SHALL COORDINATE WITH THE SITE OWNER TO NOTIFY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC). NO INTRUSIVE WORK SHALL BE COMPLETED WITHOUT APPROPRIATE NYSDEC APPROVALS.
- ALL PERSONNEL PERFORMING GROUND INTRUSIVE WORK, THAT MAY COME IN CONTACT WITH EXISTING SITE MEDIA (GROUNDWATER, SOIL, SOIL VAPOR), THAT MAY BE WITHIN THE EXCLUSION ZONE, OR MAY BE WITHIN THE CONTAMINATION REDUCTION ZONE, SHALL HAVE HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE (HAZWOPER) TRAINING IN COMPLIANCE WITH 29 CFR 1910.120. PERSONNEL WITHIN THE SUPPORT ZONE DO NOT REQUIRE HAZWOPER TRAINING.
- ALL EXCAVATED MATERIAL AND GROUNDWATER MUST BE HANDLED IN ACCORDANCE WITH THE NYSDEC APPROVED EXCAVATION WORK PLAN FOR THE SITE. MATERIAL SHALL BE CHARACTERIZED FOR OFF-SITE DISPOSAL AT AN APPROPRIATELY PERMITTED FACILITY.
- ALL IMPORTED FILL MATERIAL (SOIL, STONE, ETC.) MUST MEET THE REQUIREMENTS SET FORTH IN 6 NYCRR PART 375.
- FOUNDATION DESIGN HAS BEEN BASED ON A PRESUMPTIVE ALLOWABLE NET BEARING PRESSURE OF 1,500 POUNDS PER SQUARE FOOT, BEARING ON NATIVE SOILS.
- PRIOR TO PLACEMENT OF REINFORCING AND CONCRETE, SUBGRADES UNDER FOUNDATIONS, FOOTINGS, AND SOIL SUPPORTED SLABS SHALL BE INSPECTED, TESTED, AND APPROVED BY A REGISTERED GEOTECHNICAL ENGINEER.
- BACKFILL OR LOAD-BEARING FILL MATERIALS BENEATH FOUNDATIONS, FOOTINGS, SLABS, AND TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR (ASTM D1557) WITH THE MOISTURE CONTENT DEVIATING NO MORE THAN TWO PERCENT FROM THE OPTIMUM MOISTURE CONTENT. (WHEN THE FILL MATERIAL DOES NOT MEET THE REQUIREMENTS OF ASTM D1557, ASTM D4718 SHALL BE USED.)
- LOAD-BEARING FILL MATERIALS SHALL BE PLACED IN LAYERS NOT MORE THAN EIGHT INCHES IN LOOSE THICKNESS FOR MATERIAL COMPACTED BY HEAVY COMPACTOR EQUIPMENT AND IN LAYERS NOT MORE THAN FOUR INCHES IN LOOSE THICKNESS FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS. FILL MATERIALS SHALL BE MOISTENED OR AERATED AS NECESSARY. ALL GRANULAR FILL (SAND, GRAVEL, ETC.) SHALL BE COMPACTED WITH VIBRATING STEEL DRUM ROLLER OR VIBRATING PLATE COMPACTORS. (OR THE CONTRACTOR SHALL USE THE APPROPRIATE EQUIPMENT FOR COMPACTING GRANULAR FILL.)
- IF APPLICABLE, THE CONTRACTOR SHALL REMOVE ALL TOPSOIL, SOFT SUBSOIL, VEGETATIVE MATTER AND OTHER MATERIALS NOT CAPABLE OF SAFELY SUPPORTING THE DESIGN LOAD. SUCH MATERIAL SHALL BE REPLACED WITH COMPACTED LOAD-BEARING FILL MATERIALS.
- WHENEVER FOUNDATIONS BEAR ON LOAD-BEARING FILL, THE FILL SHALL EXTEND Laterally BEYOND THE EDGES OF THE FOUNDATIONS FOR A MINIMUM DISTANCE EQUAL TO THE DEPTH OF THE FILL BENEATH THE FOUNDATION.
- NO BURIED SEWERS, DRAINS, SUPPLY LINES, CONDUITS, OR OTHER PIPING SHALL BE PERMITTED TO PASS WITHIN THE ZONE OF INFLUENCE EXTENDING DOWN AND AWAY AT 45 DEGREES FROM THE BOTTOM EDGES OF COLUMN FOOTINGS, NOR TO RUN PARALLEL WITHIN THE ZONE OF INFLUENCE EXTENDING DOWN AND AWAY AT 45 DEGREES FROM THE BOTTOM EDGES OF WALL FOOTINGS.

## STRUCTURAL STEEL NOTES

- ALL DESIGN, DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC MANUAL OF STEEL CONSTRUCTION FIFTEENTH EDITION (ASD). [NOTE, LOCAL CODE MAY BE USING THE FOURTEENTH EDITION VERIFY]
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 303-16, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC DETAILING FOR STEEL CONSTRUCTION LATEST EDITION.
  - RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, LATEST EDITION.
  - AMERICAN WELDING SOCIETY, AWS D1.1, STRUCTURAL WELDING CODE, LATEST EDITION
- UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 

W AND WT SHARES	A992 OR A572, GRADE 50
M, S, C, MC, AND L SHAPES	A36
PLATES AND BARS	A36 OR A572, GRADE 50
PIPES	A53 GRADE B, F <sub>y</sub> = 35 KSI
RECTANGULAR HSS	A500 GRADE C, F <sub>y</sub> = 50 KSI
ROUND HSS	A500 GRADE C, F <sub>y</sub> = 46 KSI
BOLTS	F3125, GRADE A325 OR A490
NUTS	A563
WASHERS	F436
SHEAR STUD CONNECTORS	A108
CHECKERED FLOOR PLATE	A786
- ANCHOR RODS, UNLESS NOTED OTHERWISE, SHALL CONFORM TO ASTM F1554, INCLUDING ALL SUPPLEMENTARY REQUIREMENTS, GRADE 36. THE STEEL FABRICATOR/DETAILER SHALL PROVIDE THE REQUIRED ANCHOR RODS COMPLETE SETS (WITH PLATE WASHERS, WASHERS, AND NUTS) AND AN ANCHOR ROD SETTING PLANS TO THE FOUNDATION CONTRACTOR.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION. ALL WELDING SHALL BE MADE WITH LOW HYDROGEN E70XX SERIES ELECTRODES AND SHALL BE PERFORMED BY CERTIFIED WELDERS. USE PREQUALIFIED JOINTS IN ACCORDANCE WITH AWS D1.1.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO CONFIRM THERE ARE NO INTERFERENCES WITH THE EXISTING INSTALLATION AND NEW WORK PRIOR TO MATERIAL PROCUREMENT AND FABRICATION.
- WHERE NEW MEMBERS ARE CONNECTED TO THE EXISTING STRUCTURE (STEEL, CONCRETE OR MASONRY), ALL NECESSARY FIELD MEASUREMENTS SHALL BE MADE BY THE DETAILER TO CONFIRM OR ADJUST THE DIMENSIONS SHOWN ON THE DRAWINGS PRIOR TO MATERIAL PROCUREMENT AND FABRICATION.

## STRUCTURAL STEEL NOTES (CONT)

- THE FOLLOWING SHALL BE FURNISHED BY AND SUBMITTED TO THE ENGINEER FOR REVIEW OR AS A RECORD DOCUMENT BY THE STEEL FABRICATOR. ALL DOCUMENTS SUBMITTED TO THE ENGINEER SHALL FIRST BE REVIEWED, APPROVED, STAMPED AND SIGNED THUS BY THE CONTRACTOR. DO NOT SUBMIT DOCUMENTS THAT HAVE NOT BEEN REVIEWED AND APPROVED BY THE CONTRACTOR TO THE ENGINEER.
  - THE STEEL FABRICATOR SHALL FURNISH ERECTION GENERAL ARRANGEMENT DRAWINGS FOR THE STRUCTURE. THE DESIGN/CONTRACT DOCUMENTS SHALL NOT BE USED FOR THESE DRAWINGS.
  - SHOP FABRICATION DRAWINGS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.
  - THE FABRICATOR SHALL SUBMIT STRUCTURAL CALCULATIONS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE HAVING JURISDICTION FOR EACH CONNECTION SHOWN ON THE PLANS AND SECTIONS. THESE CALCULATIONS WILL BE RECEIVED AND REVIEWED FOR RECORD ONLY.
  - WELDING CERTIFICATION: THE STEEL FABRICATOR SHALL PROVIDE FABRICATION COMPANY CERTIFICATION AND WELDER CERTIFICATION IN ACCORDANCE WITH AWS.
  - PROVIDE SUPPLIER CERTIFICATION STATING CONFORMITY OF ANCHOR RODS, HIGH STRENGTH BOLTS, HEAVY HEX NUTS AND HARDENED WASHERS SUPPLIED TO THE SPECIFIED MATERIAL.
- REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE FABRICATOR OF THE RESPONSIBILITY FOR DEVIATIONS, ERRORS, OR OMISSIONS FROM THE DESIGN (CONTRACT) DOCUMENTS.
- THE FABRICATOR IS RESPONSIBLE FOR THE SELECTION, DESIGN, AND DETAILING OF ALL CONNECTIONS ON THE CONTRACT DOCUMENTS. STRUCTURAL CONNECTIONS SHALL BE AS FOLLOWS, UNLESS INDICATED OTHERWISE. A MINIMUM OF TWO BOLTS SHALL BE USED FOR ANY BOLTED CONNECTION.
- UNLESS INDICATED OTHERWISE, ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM 3125, GRADE A325 BOLTS, TYPE N BEARING CONNECTIONS. THE BOLTS IN THESE CONNECTIONS SHALL BE PRETENSIONED. AT COLUMN SPLICES, MOMENT CONNECTIONS, BRACING, AND AXIALLY LOADED MEMBERS, THE CONNECTIONS SHALL BE DESIGNED AS SLIP CRITICAL CONNECTION USING 3/4" DIAMETER ASTM 3125, GRADE A325 BOLTS SHALL BE USED. TWIST-OFF TYPE TENSION CONTROL BOLTS CONFORMING TO ASTM 3125, GRADE F1852 MAY BE USED AT THE ERECTOR'S/CONTRACTOR'S OPTION.
- IN SIMPLE SHEAR CONNECTIONS OF BEAMS AND GIRDETS, THE MINIMUM NUMBER OF BOLTS SHALL BE AS REQUIRED TO DEVELOP THE BEAM END REACTIONS NOTED ON THE DRAWINGS. IF THE BEAM END REACTION IS NOT NOTED, THE CONNECTIONS SHALL BE DESIGNED AND DETAILED TO DEVELOP ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM BASED ON THE BEAM SPAN WITH A Laterally SUPPORTED FLANGE. REFER TO THE "MINIMUM UNIFORM LOAD" TABLE IN AISC'S STEEL CONSTRUCTION MANUAL, 14TH EDITION. CONNECTIONS SHALL ALSO BE DESIGNED AND DETAILED TO SUPPORT BEAM AXIAL COMPRESSION OR TENSION IN ADDITION TO SHEAR WHERE NOTED ON THE DRAWINGS.
- ALL MOMENT CONNECTIONS SHALL DEVELOP THE FULL MOMENT CAPACITY OF THE BEAM OR GIRDER, UNLESS NOTED OTHERWISE.
- ALL CONNECTIONS ON THE DRAWINGS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER, REGISTERED IN THE PROJECT'S JURISDICTION, Hired BY THE FABRICATOR. SHOP DRAWINGS AND CALCULATIONS OF THESE CONNECTIONS SHALL BE SUBMITTED AND SHALL BEAR THE STAMP AND SIGNATURE OF THE STRUCTURAL ENGINEER. REGARDLESS TO PROVISIONS TO THE CONTRARY IN AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", ALL CONNECTIONS DESIGNED BY THE FABRICATOR'S ENGINEER SHALL BE THE FABRICATOR'S RESPONSIBILITY AND REVIEW OF SHOP DRAWINGS BY DPS GROUP, INC. REPRESENTATIVES WILL NOT RELIEVE THE FABRICATOR OF THIS RESPONSIBILITY.
- UNLESS INDICATED OTHERWISE, BRACING CONNECTIONS SHALL BE DESIGNED AND DETAILED SO THAT ALL FORCE COMPONENTS ARE TRANSFERRED DIRECTLY TO THE CENTERLINES OF THE INTERSECTING MEMBERS. WHERE THIS IS NOT POSSIBLE, CONNECTIONS SHALL BE DESIGNED FOR ALL RESULTING ECCENTRICITIES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ACCIDENTAL FIRE DURING FIELD WELDING IN AND AROUND EXISTING CONSTRUCTION. PRECAUTIONS MAY INCLUDE, BUT NOT BE LIMITED TO, THE USE OF FIRE RESISTANT BLANKETS (WELDER'S BLANKETS), POSTING A WORKMAN WITH FIRE EXTINGUISHER, OR ANY OTHER METHOD OR COMBINATION OF METHODS USED TO PREVENT FIRE.
- USE CAUTION WHEN FIELD WELDING TO EXISTING (LOADED) STEEL MEMBERS. FIELD WELDING TO EXISTING MEMBERS SHALL BE PERFORMED WHEN NO LIVE WIND OR SNOW LOADS ARE PRESENT. DO NOT WELD MORE THAN A 2 INCH LENGTH PERPENDICULAR TO THE MEMBER AT THE DIRECTION OF THE MEMBER AT ANY ONE TIME UNLESS THE EXISTING MEMBER IS TEMPORARILY SUPPORTED ON EACH SIDE OF THE WELD LOCATION PRIOR TO WELDING.
- THE SURFACES OF STRUCTURAL STEEL MEMBERS WHICH ARE TO RECEIVE FIELD WELDED CONNECTIONS SHALL BE STRIPPED TO BARE METAL, FREE OF PAINT, RUST, SCALE, GALVANIZING MATERIAL, FIREPROOFING, ETC. WITHIN 2 INCHES OF THE WELD. AFTER WELDING IS COMPLETE, SURFACES THAT WERE UNPAINTED SHALL BE PRIMED AND FINISH PAINTED TO MATCH EXISTING AND SURFACES THAT WERE GALVANIZED SHALL BE COATED WITH GALVANIZING REPAIR PAINT.
- SPLICING OF STRUCTURAL MEMBERS, WHERE NOT DETAILED ON THE DRAWINGS, IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO THE LOCATION, TYPE AND CONNECTION TO BE MADE.
- NO FIELD CUTS, HOLES OR OTHER OPENINGS SHALL BE MADE IN MEMBERS UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- THE STEEL STRUCTURE IS NOT SELF-SUPPORTING AND IS DEPENDENT UPON FINAL ATTACHMENT OF ROOF AND/OR FLOOR DIAPHRAGMS (INCLUDING CONCRETE FILL), FINAL ATTACHMENT TO CONCRETE AND/OR MASONRY WALLS, COMPLETED BRACING, OR MOMENT CONNECTIONS FOR LATERAL STABILITY. CONTRACTOR/ERECTOR OR SHALL PROVIDE ADEQUATE TEMPORARY SUPPORTS AND/OR BRACING AS REQUIRED TO ENSURE LATERAL STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- GROUT FOR USE UNDER BASE PLATES, BEARING PLATES, ETC. SHALL BE NON-SHRINK, NON-METALLIC, NON-STAINING, PLASTIC OR FLOWABLE, PRE-MIXED GROUT CONFORMING TO ASTM C1107. SPACES BETWEEN BASE PLATES AND SUPPORTING CONCRETE SHALL BE CLEANED OUT PRIOR TO GROUTING. THE COMPRESSIVE STRENGTH OF GROUT SHALL BE 8,000 PSI MINIMUM AT 28 DAYS. ACCEPTABLE PRODUCTS INCLUDE MASTER BUILDERS - MASTERFLOW 928, HIGH-PRECISION MINERAL-AGGREGATE GROUT WITH EXTENDED WORKING TIME OR SIKKA - SIKAGROUT 328, HIGH PERFORMANCE, PRECISION GROUT WITH EXTENDED WORKING TIME.
- ALL INTERIOR STEEL SHALL RECEIVE ONE COAT OF SHOP APPLIED ZINC RICH PRIMER WITH A MINIMUM SOLIDS CONTENT OF 60 PERCENT (MINIMUM 3.0 MILS DRY FILM THICKNESS). SURFACE PREPARATION SHALL BE PER THE REQUIREMENTS OF THE PRIMER WITH A MINIMUM SURFACE PREPARATION SSPC SP3. DO NOT PRIME OR PAINT STEEL DESIGNATED TO RECEIVE FIREPROOFING. BLOCK OUT PAINT AT SLIP-CRITICAL BOLTED CONNECTIONS AND CONNECTIONS TO BE FIELD WELDED. ACCEPTABLE MANUFACTURERS ARE PPG (PROTECTIVE AND MARINE COATINGS) AND AKZO-NOBEL.
- ALL EXTERIOR STEEL SHALL BE CLEANED AND HOT-DIP GALVANIZED, UNO. HOT DIP GALVANIZING COATING SHALL BE DONE IN ACCORDANCE WITH ASTM A123 TO A MINIMUM COATING WEIGHT OF 2.0 OZ PER SQUARE FOOT (3.3 MILS, OR 600 GRAMS PER SQUARE METER). [1.7 OZ. PER SQUARE FOOT (3.0 MILS, OR 530 GRAMS PER SQUARE METER)].
- AFTER ERECTION, CLEAN FIELD WELDS, AND DAMAGED AREAS OF PRIMER AND/OR TOP COATINGS(S) AND ON THE SAME DAY, APPLY PRIMER. A FINISH COATING TO MATCH EXISTING SHALL ALSO BE APPLIED. THE FABRICATOR TO PROVIDE PRIMER AND TOP COATINGS TO COMPLETE THIS WORK.
- REPAIR OF GALVANIZING COATINGS SHALL BE DONE IN ACCORDANCE WITH ASTM A789 USING A ZINC RICH PAINT WITH A DRY FILM THICKNESS 125% OF THE ORIGINAL COATING.
- THE STEEL ERECTOR SHALL BE A QUALIFIED INSTALLER WHO PARTICIPATES IN THE AISC CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC CERTIFIED ERECTOR, CATEGORY CERTIFIED STEEL ERECTOR (CSE).
- WHEN THE STRUCTURAL STEEL IS DELIVERED, IT SHALL BE STACKED OFF THE GROUND. CARE SHALL BE TAKEN IN HANDLING AND STACKING THE MEMBERS TO PREVENT BUCKLING, KINKING, DISTORTION OR DAMAGE.
- ALL MUD, GRASS AND OTHER FOREIGN MATERIAL SHALL BE CLEANED FROM THE STEEL BEFORE ERECTION.

## POST-INSTALLED ANCHOR SCHEDULE

ANCHOR TYPE	MANUFACTURER		
	SIMPSON	HILTI	DEWALT/POWERS
EXPANSION BOLT INTO CONCRETE	STRONG-BOLT 2	KWIKBOLT TZ	POWER-STUD+ SD1
EXPANSION BOLT INTO GROUT-FILLED CMU	STRONG-BOLT 2	KWIKBOLT 3	POWER-STUD
EPOXY BOLT	A36 THREADED ROD W/SET-3G ADHESIVE	A36 THREADED ROD W/HIT-HY 200-A OR HIT-RE 500	A36 THREADED ROD W/RE1000+ ADHESIVE
SCREW ANCHOR	TITEN HD	KH-EZ	WEDGE-BOLT +
SCREEN ANCHOR	A36 THREADED ROD W/SET-3G ADHESIVE AND SCREEN TUBE	A36 THREADED ROD W/HIT-HY 270 ADHESIVE AND SCREEN TUBE	A36 THREADED ROD W/ AC108+GOLD ADHESIVE AND SCREEN TUBE
POWDER ACTUATED FASTENER (WOOD TO STEEL)	PDWP-200	X-U	X-DN 47 98
POWDER ACTUATED FASTENER (LIGHT GAGE TO STEEL)	PDPT-50K	X-ZF 14 THP	16 HM TH 8MM

NOTE: ALL POST INSTALLED ANCHORS INDICATED IN SCHEDULE ABOVE SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.



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KEY PLAN

STAMP

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DESIGN	CHKD	APPR
1	02/27/2025	ISSUED FOR 90% DESIGN	KNC	AEG	MS
2	10/25/24	30% DESIGN	KNC	AEG	MS

STATUS

DESIGN

CLIENT

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PROJECT

THERMAL OXIDIZER #1 CONNECTIONS

TITLE

STRUCTURAL

GENERAL NOTES

PROJECT NO.

D24AL011

SCALE

AS INDICATED

CLIENT NO.

DRAWING NO.

6479

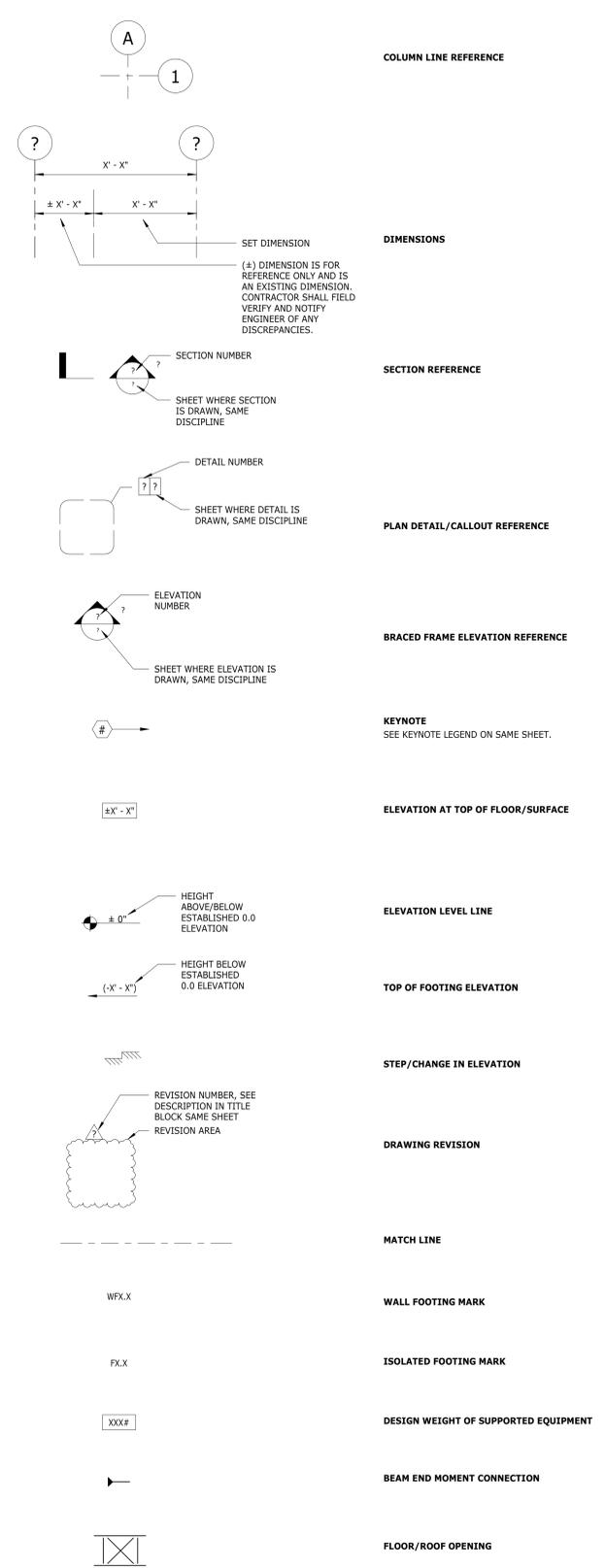
REV

1

**STRUCTURAL ABBREVIATIONS**

&	AND	MATL	MATERIAL
AB	ANCHOR BOLT	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MCJ	MASONRY CONTROL JOINT
AJFR	ABOVE FINISHED ROOF	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MEJ	MASONRY EXPANSION JOINT
ALT	ALTERNATE	MEZZ	MEZZANINE
ALUM	ALUMINUM	MFR	MANUFACTURER
ANCH	ANCHOR	MIN	MINIMUM
APPROX	APPROXIMATE	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL	MK	MARK
BEJ	BUILDING EXPANSION JOINT	MO	MASONRY OPENING
BLDG	BUILDING	MSL	MEAN SEA LEVEL
BH	BEAM	N	NORTH
BOD	BOTTOM OF DECK	NF	NEAR FACE
BOT	BOTTOM	NO OR #	NUMBER
CHKR	CHECKERED	NOM	NOMINAL
CJ	CONSTRUCTION JOINT OR CONTROL JOINT	NS	NEAR SIDE
CL	CENTERLINE	N/S	NORTH/SOUTH
CLG	CEILING	NTS	NOT TO SCALE
CLR	CLEAR	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
COL	COLUMN	OF	OUTSIDE FACE
CONC	CONCRETE	OPNG	OPENING
CONST	CONSTRUCTION	OPP	OPPOSITE
CONT	CONTINUOUS	PC	PRECAST
DBA	DEFORMED BAR ANCHOR	PEJ	PREMOLDED EXPANSION JOINT
DBL	DOUBLE	PL	PLATE
DTL	DETAIL	PLCS	PLACES
DIA OR Ø	DIAMETER	PLF	POUNDS PER LINEAR FOOT
DIAG	DIAGONAL	PLMB	PLUMBING
DIM	DIMENSION	PROJ	PROJECTION
DJ	DOUBLE JOIST	PSF	POUNDS PER SQUARE FOOT
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DWG(S)	DRAWING(S)	PT	POST TENSIONED OR TENSIONED
DWL	DOWEL	PVC	PRESSURE TREATED POLYVINYL CHLORIDE
E	EAST	R	RADIUS OR RISER(S)
EA	EACH	RD	ROOF DRAIN
EF	EACH FACE	REF	REFERENCE
EJ	EXPANSION JOINT	REF	REINFORCED
EL	ELEVATION	REIN	REINFORCING
ELEC	ELECTRICAL	REQD	REQUIRED
ELEV	ELEVATOR	RET	RETAINING
EMBED	EMBEDMENT	REV	REVISION OR REVISED
EOD	EDGE OF DECK	RM	ROOM
EOP	EDGE OF PLATE	RO	ROUGH OPENING
EPOS	EDGE OF SLAB	RTU	ROOFTOP UNIT
EQ OR =	EQUAL	S	SOUTH
EQUIP	EQUIPMENT	SC	SLIP CRITICAL
ES	EACH SIDE	SCHED	SCHEDULE
EW	EACH WAY	SECT	SECTION
E/W	EAST/WEST	SF	SQUARE FOOT
EX	EXISTING	SH	SHIRT
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SLH	SHORT LEG HORIZONTAL
FCO	FLOOR CLEAN OUT	SLV	SHORT LEG VERTICAL
FD	FLOOR DRAIN	SLV	SLEEVE
FDN	FOUNDATION	SPCG	SPACING
FF	FAR FACE	SPCS	SPECIFICATIONS
FIN	FINISHED	SQ	SQUARE
FL	FLOOR	SS	STAINLESS STEEL
FS	FAR SIDE	STD	STANDARD
FT	FOOT, FEET	STIFF	STIFFENER
FTG	FOOTING	STL	STEEL
GA	GAGE	STRUCT	STRUCTURAL
GALV	GALVANIZED	SW	SHORT WAY
GRTG	GRATING	T	TON(S) OR TREAD(S)
HCA	HEADED CONCRETE ANCHOR	T/	TOP OF
HK	HOOK(S)	T&B	TOP AND BOTTOM
HORIZ	HORIZONTAL	TDS	TURNED DOWN SLAB
HP	HIGH POINT	THK	THICK
HT	HEIGHT	THRD	THREADED
HVAC	HEATING VENTILATING AND AIR CONDITIONING	THRU	THROUGH
ID	INSIDE DIAMETER	TOC	TOP OF CONCRETE
IF	INSIDE FACE	TOG	TOP OF GRATING
IJ	ISOLATION JOINT	TOR	TOP OF ROOF
IN	INCH(ES)	TOS	TOP OF STEEL
INFO	INFORMATION	TRANS	TRANSVERSE
INT	INTERIOR	TYP	TYPICAL
INV	INVERT	UNO	UNLESS NOTED OTHERWISE
JST	JOIST	VERT	VERTICAL
JT	JOINT	VIF	VERIFY IN FIELD
K	KIPS	W	WEST OR WIDE
KB	KNEE BRACE	W/	WITH
KSI	KIPS PER SQUARE INCH	WCJ	WALL CONTROL OR CONSTRUCTION JOINT
LBS	POUNDS	W/O	WITHOUT
LG	LONG	WP	WORKING POINT
LLH	LONG LEG HORIZONTAL	WT	WEIGHT
LLV	LONG LEG VERTICAL	WWR	WELDED WIRE REINFORCING
LONG	LONGITUDINAL		
LP	LOW POINT		
LW	LONG WAY		

**STRUCTURAL LEGEND**



DEDICATED PROCESS ARCHITECTURE AND ENGINEERING SERVICES D.P.C.  
 201 FULLER ROAD, SUITE 201, ALBANY, NY 12203  
<https://www.dpsgroupglobal.com>

**KEY PLAN**

**STAMP**

NOT FOR CONSTRUCTION


1	02/27/2025	ISSUED FOR 90% DESIGN	KNC	AEG	MS
0	10/25/24	30% DESIGN	KNC	AEG	MS
REV	DATE	DESCRIPTION	DES	CHKD	APPR

STATUS DESIGN

**CLIENT**

33 RIVERSIDE AVE, RENSSELAER, NEW YORK 12144

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**PROJECT**  
 THERMAL OXIDIZER #1 CONNECTIONS

**TITLE**  
 STRUCTURAL ABBREVIATIONS & LEGEND

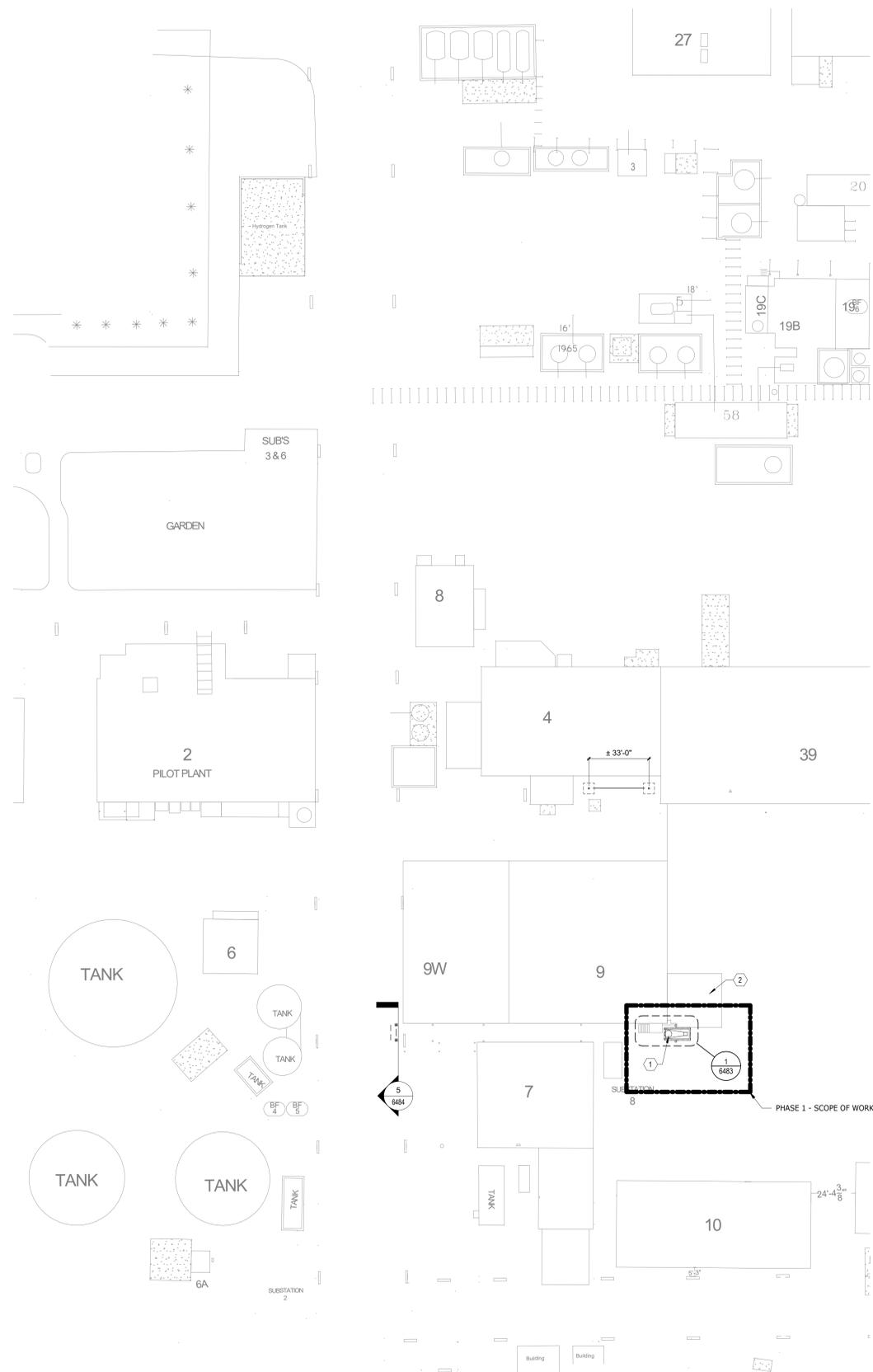
PROJECT NO. D24AL011	SCALE AS INDICATED	CLIENT NO.
DRAWING NO. 6480	REV 1	

**GENERAL NOTES**

- A. REFER TO 6479 AND 6480 FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- B. EXISTING STRUCTURES ARE SHOWN HALFTONED. NEW WORK IS SHOWN IN BLACK.
- C. FIELD VERIFY ALL EXISTING DIMENSIONS AND INFORMATION PROVIDED PRIOR TO START OF CONSTRUCTION.
- D. ALL EXTERIOR STEEL, INCLUDING BEAMS, COLUMNS, AND CONNECTION MATERIAL, SHALL BE HOT DIP GALVANIZED.
- E. ALL INTERIOR STEEL SHALL BE PAINTED PER OWNER REQUIREMENTS.
- F. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS CONCERNING ENVIRONMENTAL CONSERVATION AND CONTAMINATED MATERIALS DURING ANY EXISTING GROUND DISTURBANCE (FOUNDATION CONSTRUCTION, UNDERGROUND UTILITIES INSTALLATION, ETC.). REFER TO "EXCAVATION, FOUNDATION, AND SLAB ON GRADE NOTES" ON SHEET 6482 FOR MORE INFORMATION.
- G. EXISTING UTILITY RACK STRUCTURES IN THE AREA INTENDED FOR USE ARE SHOWING SIGNS OF AGE AND REQUIRE MAINTENANCE. SURFACE RUST IS VISIBLE IN MANY LOCATIONS. AS THE CORROSION PROCEEDS AND THE STEEL BEGINS TO DEGRADE, THE STRUCTURES WILL BEGIN TO LOSE CAPACITY. DPS RECOMMENDS CLEANING AND RECOATING OF THE EXISTING RACKS AT THIS POINT TO EXTEND THEIR SERVICE LIFE.

**KEYED NOTES**

- 1. KNOCKOUT POT EQUIPMENT SUPPORT FOUNDATION AND CONTAINMENT AREA, REFER TO ENLARGED VIEWS.
- 2. EXISTING TOX EQUIPMENT SUPPORT PAD.



**1 PARTIAL SITE FOUNDATION PLAN**

1/32" = 1'-0"

KEY PLAN

STAMP

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DESIGNED	CHECKED	APPROVED
1	02/27/2025	ISSUED FOR 90% DESIGN	KNC	AEG	MS
2	10/25/24	30% DESIGN	KNC	AEG	MS

STATUS DESIGN

CLIENT



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PROJECT THERMAL OXIDIZER #1 CONNECTIONS

TITLE STRUCTURAL PARTIAL SITE FOUNDATION PLANS

PROJECT NO. D24AL011 SCALE AS INDICATED CLIENT NO.

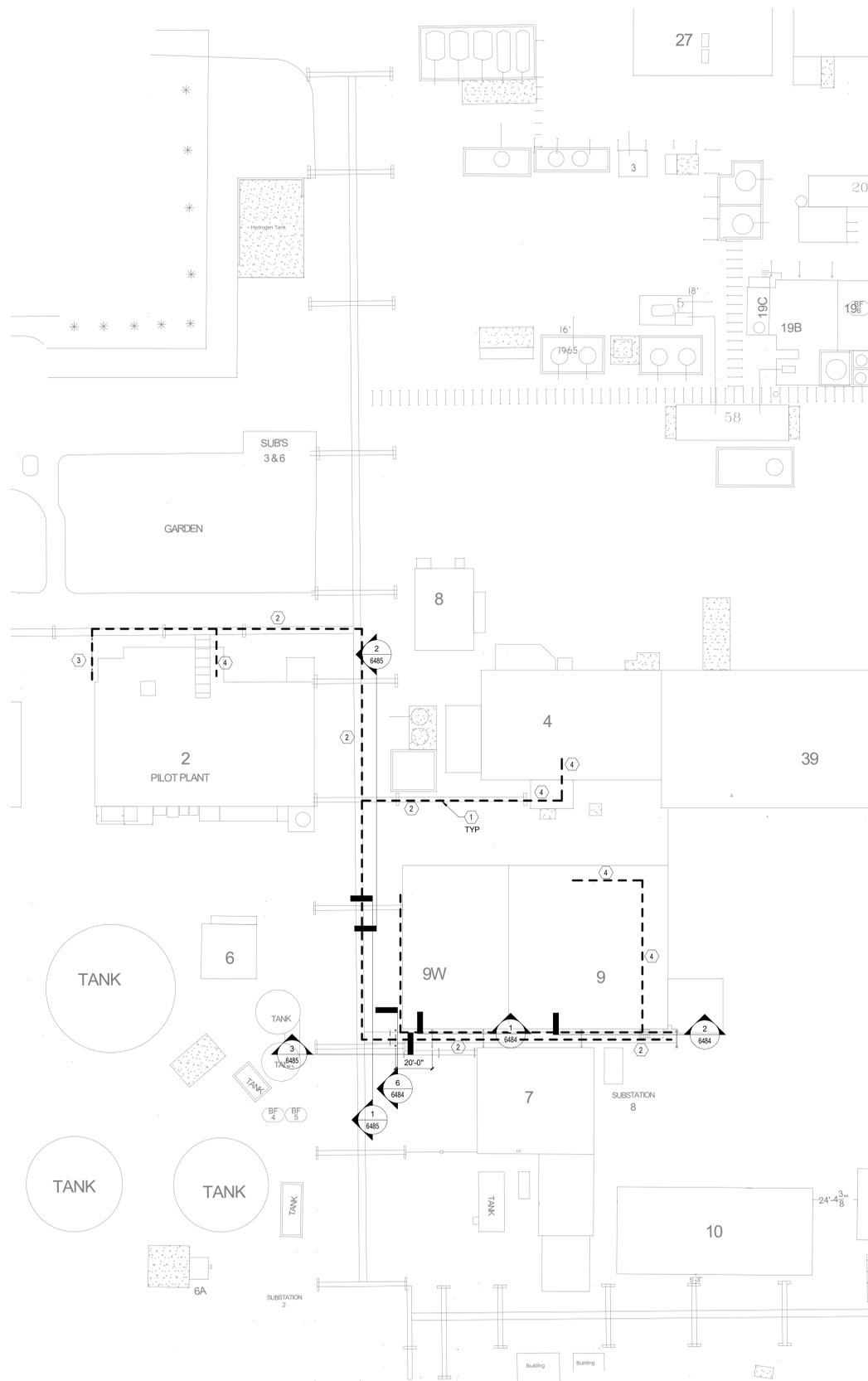
DRAWING NO. 6481 REV 1

**GENERAL NOTES**

- A. REFER TO 6479 AND 6480 FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- B. EXISTING STRUCTURES ARE SHOWN HALFTONED. NEW WORK IS SHOWN IN BLACK.
- C. FIELD VERIFY ALL EXISTING DIMENSIONS AND INFORMATION PROVIDED PRIOR TO START OF CONSTRUCTION.
- D. ALL EXTERIOR STEEL, INCLUDING BEAMS, COLUMNS, AND CONNECTION MATERIAL, SHALL BE HOT DIP GALVANIZED.
- E. ALL INTERIOR STEEL SHALL BE PAINTED PER OWNER REQUIREMENTS.
- F. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS CONCERNING ENVIRONMENTAL CONSERVATION AND CONTAMINATED MATERIALS DURING ANY EXISTING GROUND DISTURBANCE, FOUNDATION CONSTRUCTION, UNDERGROUND UTILITIES INSTALLATION, ETC.). REFER TO "EXCAVATION, FOUNDATION, AND SLAB ON GRADE NOTES" ON SHEET 6479 FOR MORE INFORMATION.

**KEYED NOTES**

- 1. DASHED HEAVY LINES REPRESENT PROPOSED PATH OF NEW UTILITY PIPING, REFER TO PROCESS DRAWINGS.
- 2. SUPPORT NEW UTILITY LINES FROM EXISTING SITE UTILITY RACK STRUCTURE. REINFORCE EXISTING RACK STEEL FRAMING AS INDICATED IN DETAILS.
- 3. SUPPORT NEW UTILITY LINES FROM NEW STRUCTURAL STEEL PIPE RACK, CONSISTING OF TWO W8X31 COLUMNS WITH ONE 4'-0" W14X30 CONNECTING THEM, APPROXIMATELY 20' ABOVE EXISTING GRADE. COLUMNS SHALL BE SUPPORTED BY 24" SQUARE REINFORCED CONCRETE PIERS OVER 7'-0" SQUARE FOUNDATIONS.
- 4. SUPPORT NEW UTILITY LINES FROM EXISTING BUILDING OVERHEAD STRUCTURE.



**1 PARTIAL SITE FRAMING PLAN**

1/32" = 1'-0"

KEY PLAN

STAMP

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DESR	CHKD	APPR
A	07/28/2025	ISSUED FOR 90% PHASE 2 DD	KNC	ARG	MS

STATUS ISSUED FOR 90% DETAILED DESIGN

**CLIENT**

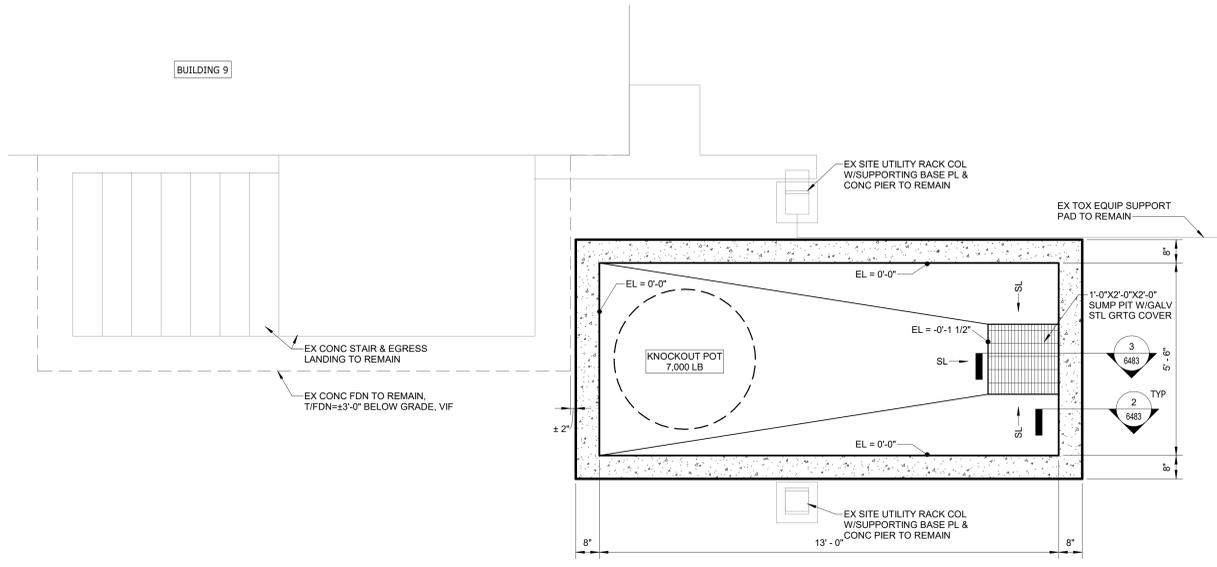
**curia**  
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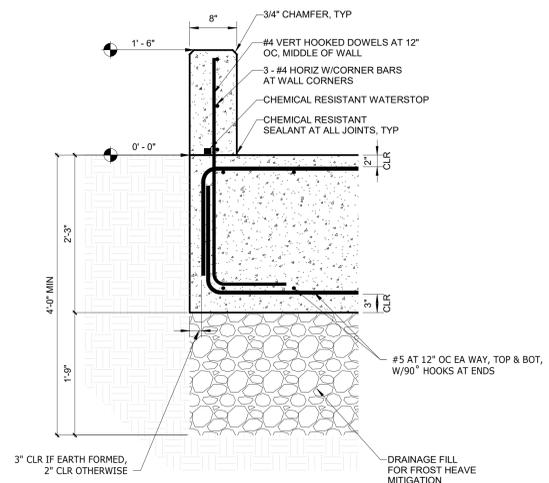
**PROJECT**  
 THERMAL OXIDIZER #1 CONNECTIONS

**TITLE**  
 STRUCTURAL  
 PARTIAL SITE FRAMING PLAN

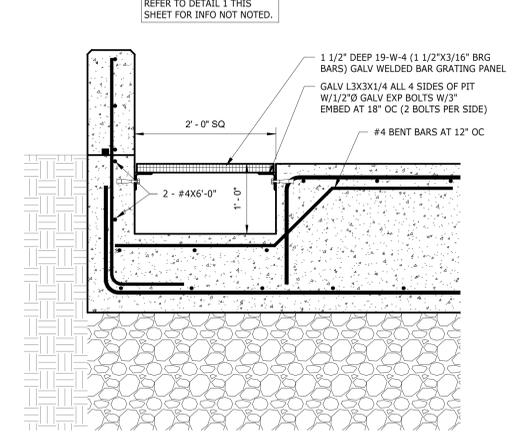
PROJECT NO.	SCALE	CLIENT NO.
C24A011	AS INDICATED	14283
DRAWING NO.	REV	
6482	A	



1 PARTIAL PLAN AT KNOCKOUT POT CONTAINMENT  
1/2" = 1'-0"



2 SECTION AT CONTAINMENT  
1" = 1'-0"



3 SECTION AT SUMP PIT  
1" = 1'-0"

GENERAL NOTES

- A. REFER TO 6479 AND 6480 FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- B. EXISTING STRUCTURES ARE SHOWN HALFTONED. NEW WORK IS SHOWN IN BLACK.
- C. FIELD VERIFY ALL EXISTING DIMENSIONS AND INFORMATION PROVIDED PRIOR TO START OF CONSTRUCTION.
- D. ALL EXTERIOR STEEL, INCLUDING BEAMS, COLUMNS, AND CONNECTION MATERIAL, SHALL BE HOT DIP GALVANIZED.
- E. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS CONCERNING ENVIRONMENTAL CONSERVATION AND CONTAMINATED MATERIALS DURING ANY EXISTING GROUND DISTURBANCE (FOUNDATION CONSTRUCTION, UNDERGROUND UTILITIES INSTALLATION, ETC.). REFER TO "EXCAVATION, FOUNDATION, AND SLAB ON GRADE NOTES" ON SHEET 6482 FOR MORE INFORMATION.
- F. ELEVATION 0'-0" SHALL CORRESPOND TO THE AVERAGE EXISTING GRADE IN THE AREA OF WORK.



KEY PLAN

STAMP

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DESIGN	CHKD	APPR
0	02/27/2025	ISSUED FOR 90% DESIGN	KINC	AEQ	MS

CLIENT

33 RIVERSIDE AVE, RENNSSELAER, NEW YORK 12144

PROJECT  
THERMAL OXIDIZER #1 CONNECTIONS

TITLE  
STRUCTURAL  
FOUNDATION AND SLAB ON GRADE  
DETAILS

PROJECT NO. D24AL011	SCALE As indicated	CLIENT NO.
DRAWING NO. 6483	REV 0	

**Attachment 4**  
*Request to Import Form*





**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

**\*This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.\***

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that passes a size 100 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.*

### SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

sieve analysis attached

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

### SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

RJ Valente

Location where fill was obtained:

RJ Valente Grafton Quarry

Identification of any state or local approvals as a fill source:

Mine ID 40647

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

sieve analysis

The information provided on this form is accurate and complete.

*Samantha J. Miller*

Signature

8/13/2025

Date

Samantha Miller

Print Name

CHA Consulting, Inc.

Firm



Atlantic Testing Laboratories

# Particle Size Analysis Report

Report #: SL08A-000042

**Albany**

22 Corporate Drive  
Clifton Park, NY 12065  
Phone: 518.383.9144

**Client:**

CHA Companies  
111 Winners Circle  
PO Box 5269  
Albany, NY 12205

**Project:**

AT3218  
LSA - CHA  
Clifton Park, NY 12065

## Sampling Information

<b>Sample Number:</b> 143077	<b>Sampled By:</b> Client
<b>Sampling Method:</b> Not Provided	<b>Sample Date:</b> 02/25/2025
<b>Sample From:</b> Not Given	<b>Material Description:</b> Crushed Stone
<b>Supplier:</b> R.J. Valente	<b>Plant or Source:</b> Cropseyville, NY
<b>Color/Material Description:</b> #1 & #2 Stone	
<b>Location Details:</b> 075104.001	

## Test Results

<b>Test Completed By:</b> Bartik, Olivia	<b>Test Completed Date:</b> 02/27/2025
--	--

Sieve Analysis Data			
Sieve Size	Percent Passing	Spec. Range	Spec. Result
50 mm (2 inch)	100	---	---
25 mm (1 inch)	90	---	---
19 mm (3/4 inch)	53	---	---
12.5 mm (1/2 inch)	8	---	---
9.5 mm (3/8 inch)	3	---	---
6.3 mm (1/4 inch)	2	---	---
4.75 mm (No. 4)	2	---	---
2.36 mm (No. 8)	2	---	---
1.18 mm (No. 16)	2	---	---
600 µm (No. 30)	2	---	---
425 µm (No. 40)	2	---	---
300 µm (No. 50)	2	---	---
150 µm (No. 100)	2	---	---
75 µm (No. 200)	1.2	---	---

Sieve Size (mm)	Percent Passing (%)
50	100
25	90
19	53
12.5	8
9.5	3
6.3	2
4.75	2
2.36	2
1.18	2
600 µm	2
425 µm	2
300 µm	2
150 µm	2
75 µm	1.2

**Test Specification:** ASTM C136/C117



Atlantic Testing Laboratories

**Albany**

22 Corporate Drive  
Clifton Park, NY 12065  
Phone: 518.383.9144

# Particle Size Analysis Report

Report #: SL08A-000042

**Client:**

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**Project:**

AT3218  
LSA - CHA  
Clifton Park, NY 12065

---

Olivia Bartik Geologist 02/27/2025