ADDENDUM NO. 01 TO

REQUEST FOR PROPOSAL (RFP) FOR CONSTRUCTION MANAGER AS CONSTRUCTOR AT RISK (CMAR), FOR A GUARANTEED MAXIMUM PRICE (GMP)

Tuesday, July 29, 2025

ARCHITECT PROJ. NO.: 23008.003

PROJECT:
Nova Classical Academy
Building Improvements and Expansion Project

ARCHITECT:
Bloom Hay Dobbs
2324 University Ave W, Suite 200
Saint Paul, MN 55114

OWNER:
The Friends of Nova Classical Academy

This Addendum is issued to modify, interpret or supplement the Bidding Documents and is hereby made a part of the Request for Proposal (RFP) Documents. Please acknowledge the number of this Addendum in your Proposal. Incorporate the Addendum into the RFP and its exhibits, attachments, and documents even where not directly referenced.

I. GENERAL

Make the following changes to the RFP, Attachments, Exhibits, and Additional Documents:

A. RFP SCHEDULE CHANGES:

The RFP schedule is modified as follows:

- Another opportunity for CMAR and any other interested parties to review the existing facility has been added on Thursday, July 31th, at 10am. Contact Jesse Prins at jprins@novaclassical.org with questions minimally one day prior. No prior registration is needed. Arrive promptly to the main entrance at 1455 Victoria Way, St. Paul, MN 55102, no later than 10am.
- The date for Proposers to submit questions has been extended to Friday, August 1st by 3pm CST, to Jesse Prins at the email noted address above.
- Addenda will be issued no later than Monday, August 4th at 3pm. Register as a plan holder with Jesse Prins at the email address above to receive the addenda via email.
- The date that Proposals are due is unchanged.

B. EXHIBIT E.1 – GMP SCHEDULE OF VALUES:

Attach the enclosed Exhibit E.1 - GMP Schedule of Values (SOV) to supplement Exhibit E at the time of Proposal Submission, by the time and date Due. The enclosed SOV represents the minimum GMP SOV breakdown detail to be submitted with the GMP Proposal. Do not eliminate any categories and indicate a price in each line. Additional lines may be added by the Proposer. The Proposer may comment and offer clarifications on their SOV.

C. PROJECT DELIVERY AND SUBSTANTIAL COMPLETION:

The dates for Project Delivery and Substantial completion have been modified as follows: All work from Phase 1 and Phase 2 Construction will be combined into one phase. Project Delivery and Substantial Completion are required no later than July 31, 2027.

D. ICC-500 3RD-PARTY PEER REVIEW AND SPECIAL INSPECTIONS:

Owner to provide Independent ICC-500 3rd-party Peer Review and Special Inspections (this particular 3rd party is removed from the CMAR's scope). All other 3rd Party Reviews, Testing, and Special Inspections, unless noted otherwise, remain in the CMAR's scope.

E. UTILITIES:

Add to the requirements included in Section 2 of the RFP: All costs for utility applications, permits, fees, charges, reviews, connections, inspections, and all utility related work are the responsibility of CMAR and to be included in the GMP. Coordinate with utilities, City, Subcontractors, A/E, and Owner. Expand utilities required for the new building to include phone (analog) service. Confirm utilities required during the Preconstruction Phase.

F. CONSTRUCTION LIMITS:

The CMAR shall secure work areas from mobilization to Substantial Completion.

G. CONSTRUCTION WORK SCHEDULE LIMITATION AND NOTIFICATION REQUIREMENTS:

All Construction activities are to be coordinated with the Owner (minimally) one calendar week in advance. At that time, CMAR is to notify the Owner of potential impacts to students, operations, school activities, and neighbors.

Where construction activities are anticipated to have significant impacts to those activities and/or entities, increase required notification to two calendar weeks in advance. Include activities having significant impacts in the CPM Construction Schedule as soon as they are identified, minimally two weeks prior to the impact.

Pie-shaped Parcel:
Construction is subject only to the City of St. Paul noise ordinance and any additional limitations imposed by regulatory authorities.

Existing School Site and Building:
At the existing school, outdoor work can be completed while school is in session as long as there are appropriate boundaries set up. Exception: no construction related work may be conducted outside the building footprint during the Drop off and Pick Up times of students which will be 8:00am - 9:00am and 3:00pm - 4:30pm.

Furthermore, construction within the existing school building is restricted to designated summer breaks, specifically from June 8, 2026, through August 14, 2026, or from June 14, 2027, through July 31, 2027. The CMAR is required to schedule all work on the existing building within one of these specified windows and ensure the building is fully operational by the conclusion of the chosen construction period.

H. ADDITIONAL RFP DOCUMENTS:

The following Additional Attachments are not posted to the school's website at the URL included in the RFP, as indicated in the RFP. They are included in this Addendum. (Attached).

- A.2. PHASE II ESA REPORT AND RESPONSE ACTION PLAN, DATED FEBRUARY 27, 2025
- A.3. LETTER OF NO ASSOCIATION DETERMINATION, DATED OCTOBER 28, 2016

ARCHITECT: BLOOM COMPANIES, LLC / BLOOM HAY DOBBS

BY: JULIA ROESSLER, PROJECT MANAGER

II. ARCHITECTURAL:

A. DRAWINGS:

1. The following Drawings are added or have been modified. (Attached.) Changes are generally clouded and marked with Delta 1. Review each drawing sheet to identify the extent of the changes, whether or not clouded.
    a. CLP-01 EXTERIOR CLADDING PRODUCT INFORMATION ILLUSTRATION.
    b. A200 SELECTIVE DEMOLITION PLANS
    c. A210A FIRST FLOOR PLAN - SHELTER
    d. A211A SECOND FLOOR PLAN - SHELTER
    e. A211B SECOND FLOOR PLAN - SKYWAY AND EXSITING BUILDING
    f. A220 - LEVEL 1 REFLECTED CEILING PLAN - SHELTER
    g. A221 - LEVEL 2 REFLECTED CEILING PLAN - SHELTER
    h. A230 - ENLARGED FLOOR PLAN -LEVEL 1
    i. A300 ROOM FINISH SCHEDULE & PARTITION TYPES
    j. A400 ROOF PLAN - SHELTER & SKYWAY
    k. A501 BUILDING ELEVATIONS- NORTHEAST
    l. A502 BUILDING ELEVATIONS - SOUTHWEST
    m. A503 BUILDING ELEVATIONS - NORTHWEST & SOUTHEAST
    n. A702 WALL SECTIONS - NORTHEAST WALL
    o. A706 WALL SECTIONS - ELEVATOR
    p. A801 ENLARGED PLAN & DETAILS - RAMP AT SKYWAY
    q. A802 ENLARGED PLAN & DETAILS - LOCKERS & TOILETS
    r. A803 - INTERIOR ELEVATIONS
    s. A804 - INTERIOR ELEVATIONS -TOILET, LOCKERS & SHOWER
    t. A805 INTERIOR ELEVATIONS - SHELTER
    u. A806 INTERIOR ELEVATIONS - SHELTER

III. MECHANICAL, ELECTRICAL, AND PLUMBING (MEP):

MEP Specification Divisions 21-28 were not included in the Project Manual in the RFP. During the CD phase, the MEP specifications will be developed further. The omission of those Divisions does not constitute omission of the Work related to those Divisions. For the purposes of the GMP, CMAR to consider the existing building in relation to those Divisions as minimal standard for the new/existing facility, updated to meet the design intent, and to meet all applicable codes and reference standards, unless noted otherwise. Reference specifications, where included on the MEP drawings.

END OF ADDENDUM 1. ATTACHMENTS ARE ENCLOSED ON SUBSEQUENT PAGES.

ARCHITECT: BLOOM COMPANIES, LLC / BLOOM HAY DOBBS

BY: JULIA ROESSLER, PROJECT MANAGER

EXHIBIT E.1
GMP SCHEDULE OF VALUES (SOV)
PRIME CMAR Proposer Firm name: _____
Project Name: Nova Classical Academy Building Improvements and Expansion Project

PART A

Item No.	CSI Division	Section	Description	Pre-Construction Labor ($) in US Dollar	Pre-Construction Materials ($) in US Dollar	Construction Labor ($) in US Dollar	Construction Materials ($) in US Dollar	Total Scheduled Value ($) in US Dollar	Remarks
x	x	x	Example Row	$4,000.50	$500.00	$6,210.00	$10,005.00	$20,715.50	Delete this example row. This is included for reference only.
1	01	General Conditions	Project Management / Coordination / Planning / Bidding / Contracting						
2	01	General Conditions	Warranties (1 year full and subs)						
3	01	General Conditions	Plan Review/AHJ Review/Coordination/Regulatory Coordination/Reporting						
4	01	General Conditions	Permits/Inspections						
5	01	General Conditions	Submittals and Shop Drawings						
6	01	General Conditions	Printing/Courier/Mail/Deliveries						
7	01	General Conditions	Temp. Office/Phones/Technology/Temp. Toilet						
8	01	General Conditions	Temp. Utilities (electric, generator, water, gas, temp./environmental control, etc.						
9	01	General Conditions	Traffic Control						
10	01	General Conditions	Cranes, Rigging, Lifts, Scaffolding, Bucket Trucks, Bracing, Shoring, Trench Boxes, etc.						
11	01	General Conditions	Excavation and Grading Equipment						
12	01	General Conditions	Barricades/Temp. Fencing						
13	01	General Conditions	Erosion Control						
14	01	General Conditions	Misc. Supplies						
15	01	General Conditions	Misc. Equipment						
16	01	General Conditions	Misc. Materials						
17	01	General Conditions	Safety Director/Safety Program / Oversight/Misc. Safety						
18	01	General Conditions	Construction Staking						
19	01	General Conditions	Construction Testing						
20	01	General Conditions	Waste Mgmt., Dumpsters, Hauling, Disposal						
21	01	General Conditions	Cleaning						
22	01	General Conditions	Snow Removal						
23	01	General Conditions	Construction Signs						
24	01	General Conditions	Other Equipment Rental: (Indicate types; one type per line)						
25	01	General Conditions	On-Site Storage (Connex, etc…)						
26	01	General Conditions	Project Management/Coordination						
27	01	General Conditions	Site Superintendent						
28	01	General Conditions	Professional Services (Itemize by Discipline)						
29	01	General Conditions	General Labor						
30	01	General Conditions	Site Superintendent						
31	01	General Conditions	Temporary Utilities (Power, Water, Gas)						
32	01	General Conditions	Construction Fencing & Barricades						
33	01	General Conditions	Construction Signage						
34	01	General Conditions	Payment and Performance Bonds (Full GMP)						

35	01	General Conditions	Insurance: CGL/Comprehensive/Umbrella, Builder's Risk, Auto, WC, Pollution/XCU, etc.						
36	N/A	N/A	Allowance ($100,000)						
37	02	Selective Demolition	Demo Pavement & Site Structures						
38	02	Selective Demolition	Interior Building Demolition						
39	03	Concrete	Excavation and Backfill for Foundations						
40	03	Concrete	Concrete Footings						
41	03	Concrete	Slab on Grade						
42	03	Concrete	Concrete Columns for Skyway						
43	03	Concrete	Sub-slab Vapor Mitigation System						
44	04	Masonry	Unit Masonry						
45	05	Metals	Structural Steel Framing						
46	05	Metals	Metal Decking						
47	05	Metals	Cold-Formed Steel Framing						
48	06	Rough Carpentry	Blocking and Backing						
49	06	Architectural Casework	Plastic Laminate Casework						
50	07	Waterproofing	Fluid Applied Waterproofing						
51	07	Thermal Insulation	Exterior Wall Insulation						
52	07	Air Barriers	Fluid-Applied Air Barrier						
53	07	Wall Panels	Metal Wall Panel System						
54	07	Fiber Cement	Cement Board Rainscreen System						
55	07	Roofing	EPDM Roofing Membrane System						
56	07	Roof Accessories	Roof Hatches, Vents						
57	07	Joint Sealants	Sealants and Caulking						
58	08	Doors and Frames	Hollow Metal Doors and Frames						
59	08	Wood Doors	Interior Wood Doors						
60	08	Openings	Interior Overhead Rated Coiling Doors (ICC-500)						
61	08	Openings	Tubular Daylighting Devices (ICC-500)						
62	08	Openings	Metal Blade Louvers (ICC-500)						
63	08	Hardware	Door Hardware						
64	08	Storefront	Aluminum Storefront						
65	08	Curtainwall	Curtainwall Assembly						
66	08	Glazing	Glass and Glazing						
67	09	Gypsum Assemblies	Metal Stud Framing and Drywall						
68	09	Tiling	Ceramic Tile at Restrooms						
69	09	Ceilings	Acoustical Ceiling Tile						
70	09	Ceilings	Wood Ceiling Panels						
71	09	Flooring	Polished Concrete						
72	09	Flooring	Resilient Tile Flooring						
73	09	Flooring	Interior Multi-Layer Resilient Athletic Flooring (Active +)						
74	09	Flooring	Interior Resilient Athletic Flooring (Drop Zone)						
75	09	Flooring	Carpet Tile						
76	09	Painting	Wall and Ceiling Paint						
77	10	Specialties	Plastic Toilet Partitions (HDPED)						
78	10	Specialties	Grab Bars, Mirrors, Dispensers						
79	10	Signage	Interior and Exterior Signage						
80	11	Equipment	Gymnasium Equipment (Curtain, Basketball, Volleyball, and Scoreboard)						
81	14	Elevators	Passenger Elevator						
82	14	Elevators	Passenger Elevator - 1 Year Maintenance						
83	21	Fire Suppression	Fire Sprinkler System (Suppression)						
84	22	Plumbing	Plumbing Rough-In						
85	22	Plumbing	Plumbing Fixtures						
86	23	HVAC	Ductwork and Distribution						

87	23	HVAC	HVAC Equipment						
88	23	HVAC	HVAC Controls and Balancing						
89	26	Electrical	Main Electrical Service						
90	26	Electrical	Branch Circuitry and Devices						
91	26	Electrical	Lighting Fixtures						
92	27	Communications	Structured Cabling						
93	28	Electronic Safety and Security	Fire Alarm System						
94	28	Electronic Safety and Security	Access Control						
95	28	Electronic Safety and Security	Video Surveillance						
96	31	Earthwork	Site Clearing and Grubbing						
97	31	Earthwork	Mass Excavation and Grading						
98	32	Paving	Asphalt Parking Lot						
99	32	Sidewalks	Concrete Sidewalks						
100	32	Plantings	Landscaping and Mulch						
101	32	Screening	Fencing and Vegetative Screening						
102	33	Utilities	Sanitary Sewer Connection/SAC						
103	33	Utilities	Water Service Connection/WAC						
104	33	Utilities	Stormwater Utilities and Pond						
105	33	Utilities	Natural Gas Service/Connection						
106	33	Utilities	Electrical Service/Connection						
107	33	Utilities	Internet Service/Connection						
108	33	Utilities	Phone Service/Connection						
			SUBTOTALS	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	

PART B

Item No.	Item	Section	Description	Pre-Construction Price US Dollar		Construction Price ($) in US Dollar		Total Scheduled Value ($) in US Dollar	Remarks
109	Other	Other	Reimbursible Expenses (Itemize by Category)						
110	Other	Other	Contingency (5% of Total GMP)						
111	Other	Other	Proposers Fee (Overhead/Profit/Markup)						
			SUBTOTALS	**$0.00**		**$0.00**		**$0.00**	
			Part A plus Part B	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	
							Proposed Base GMP	**$0.00**	

PART C

Item No.	CSI Division	Section	Description	Pre-Construction Labor ($) in US Dollar	Pre-Construction Materials ($) in US Dollar	Construction Labor ($) in US Dollar	Construction Materials ($) in US Dollar	Total Scheduled Value ($) in US Dollar	Remarks
112	Alternate	Not provided.	ALTERNATE NO. 1 (Deduct Alternate) – Extension to the Date of Substantial Completion.						
113	Alternate	Not provided.	ALTERNATE NO. 2 (Add Alternate) – Shelter Wood Floor						
114	Alternate	Not provided.	ALTERNATE NO. 3 (Add Alternate) – Great Room Flooring						
115	Alternate	Not provided.	ALTERNATE NO. 4 (Add Alternate) – Add Heat in Existing School Building South Stairs:						
116	Alternate	Not provided.	ALTERNATE NO. 5 (Add Alternate) – Scoreboards at Existing Building:						
117	Alternate	Not provided.	Proposer's Alternate #6 - Per Proposer						

Phase II ESA Report and Response Action Plan

Nova Classical Academy Building Addition
1455 Victoria Way
St. Paul, Minnesota
VP8804

Prepared for:

Friends of Nova Classical Academy

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Project B1608280.02
February 27, 2025

Braun Intertec Corporation

BRAUN INTERTEC
The Science You Build On.

Braun Intertec Corporation
11001 Hampshire Avenue S
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

February 27, 2025 Project B1608280.02

Mr. Jesse Prins
Friends of Nova Classical Academy
1455 Victoria Way
St. Paul, MN 55102

Re: Phase II ESA Report and Response Action Plan
Nova Classical Academy Building Addition
1455 Victoria Way
St. Paul, Minnesota

Dear Mr. Prins:

Braun Intertec Corporation has prepared the attached Phase II ESA report and Response Action Plan (PII/RAP) for the above referenced site (Site). This PII/RAP was prepared in association with the proposed development of the Site and provides a description of the methods that will be used to identify, evaluate, and manage potentially contaminated materials that may be encountered during redevelopment.

The Phase II ESA investigation sections present the means, methods, and results of supplemental site investigation activities recently conducted at the Site. The RAP describes the procedures for vapor mitigation actions at the Site concurrently with redevelopment. The construction contingency (CCP) portion of the document outlines procedures for addressing any unexpected environmental conditions encountered during construction. The PII/RAP document is being submitted to the Minnesota Pollution Control Agency (MPCA) Voluntary Investigation and Cleanup (VIC) and Petroleum Brownfields Programs (PBP) for review and approval. If redevelopment plans should change, the PII/RAP document should be amended as appropriate.

If you have any questions, please contact Brian Hoese at 612.940.3270.

Sincerely,

BRAUN INTERTEC CORPORATION

Brian J. Hoese, PE
Director, Principal Engineer

Kenneth Larsen, PE, PG
Principal Engineer

Attachment: Response Action Plan/Construction Contingency Plan

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B Lead Soil Solidification Area Figure
C: Well Sealing Form
D: Boring Logs
E: Laboratory Reports
F: References

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A. Introduction

Braun Intertec Corporation has prepared this Phase II ESA Report and Response Action Plan (PII/RAP) for the Nova Academy Building addition located in St. Paul, Minnesota (Site). A Site Location Map is included as Figure 1. This PII/RAP includes the project background, Phase II ESA, description and summary of the known soil, groundwater, and soil vapor conditions at the Site and a description of the planned development. Further, the plan will provide a description of the means and methods that will be used to manage any impacted soil, groundwater, and soil vapor at the Site that may be found during development activities. It is anticipated that the proposed response actions will be implemented concurrently with development/construction related activities.

This PII/RAP is being submitted to the Minnesota Pollution Control Agency (MPCA) Voluntary Investigation and Cleanup (VIC) and Petroleum Brownfields Programs (PBP) for review and approval prior to the start of construction.

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B. Project Management Organization

Site Owner/Developer

Name: Friends of Nova Classical Academy
Address: 1455 Victoria Way, St. Paul, MN 55102
Phone No.: 651.209.6320
Contact: Mr. Jesse Prins

Environmental Engineer/Consultant

Name: Braun Intertec Corporation
Address: 11001 Hampshire Avenue South
Minneapolis, MN 55438
Phone No.: 952.995.2000
Contact: Brian Hoese, PE
Field Representative: TBD

Analytical Laboratory

Name: Pace Analytical Services
Address: 1700 Elm Street, Suite 200
Minneapolis, MN 55414

Phone No.:	612.607.6335
Contact:	Sydni Harrison
Or	
Name:	Pace Analytical Services (National Air Lab)
Address:	12065 Lebanon Rd
	Mt. Juliet, TN 37122
Phone No.:	615.758.5858
Contact:	Jennifer Mccurdy

C. Background

C.1. Site Location and Description

The Site is located adjacent to the Nova Classical Academy building at 1455 Victoria Way in St. Paul, Minnesota. The Site consists of one parcel totaling approximately 1.14 acres in size, with a parcel ID of 142823210064. The parcel is currently owned by Friends of Nova Classical Academy. The Site boundary is included on the Investigation Locations Figure 2.

C.2. Proposed Development

The client is planning to expand the existing Nova Classical Academy School building. The proposed building addition l includes the construction of a 13,000 square foot two-story slab-on-grade building to increase the number of classrooms and office space and will also include a storm shelter/gymnasium with associated locker rooms.

Preliminary diagrams and schematics for the Site development are included as Appendix A.

C.3. Previous Site Investigations/Environmental Conditions

The Site is located on a portion of the former Koch Tank Farm Area site that has been the subject of extensive environmental investigations and remediation over a number of years. Peer Engineering, Inc. (Peer) performed environmental consulting services at the former Koch Tank Farm Area site for the City of St. Paul starting in 1997 (it is noted that environmental consulting services were completed by Peer, which was acquired by Braun Intertec on March 7, 2015). Initially, Peer completed a review of available

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environmental reports pertaining to the Koch and Mobil properties in 1997. Peer produced a Phase I Assessment of Site Conditions report dated August 15, 1997.

Peer performed follow-up work and produced a "Phase II Results and Focused Feasibility Study" report dated June 16, 1998. The report includes documentation of additional supplemental investigation completed at the Koch and Mobil properties (including investigation on the Koch Tank Farm Area site) and presented a focused feasibility study of alternative response action approaches to facilitate site development. Flint Hills Resources (formerly Koch Fuels) and ExxonMobil implemented various response actions at their respective properties, including enhancement of previously installed soil and ground water remediation systems.
The City of St. Paul purchased the Koch Tank Farm site in 2004 and contracted with Peer to prepare a Development Response Action Plan (DRAP) for the Koch Tank Farm Area site dated April 28, 2004. The MPCA approved this DRAP in a letter dated May 27, 2004, implementation of the DRAP is documented in Peer's "Imported Fill Sampling Results" letter dated May 3, 2005, and in Peer's "DRAP Implementation – Infrastructure Phase" report dated April 17, 2006. Peer prepared Phase I ESA reports for portions of the Site on April 25, 2011 and September 21, 2011 and a Response Action Implementation Report dated July 18, 2012.

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Historical Land Use

- The Koch Tank Farm Area site was vacant prior to the mid-1930's.
- Shell Oil Company constructed the first five ASTs on the Koch Tank Farm Area site in 1937. Eight additional ASTs were installed between 1938 and approximately 1966.
- Koch Fuels purchased the Koch Tank Farm Area site from Shell Oil Company in 1982 and continued to operate a tank farm until 1995.
- All of the tanks were dismantled and removed in 1996.
- Koch Fuels was renamed Flint Hills Resources in 2002 and implemented response actions related to near surface soil contamination in 2003 and 2004.
- The City of St. Paul purchased the Koch Tank Farm Area site and placed clean structural fill materials in 2004. Infrastructure improvements, including the existing roads and utilities, were completed in 2005.

- The existing Nova Classical Academy was constructed on the property south of the Site in 2012.

A No Association Determination (NAD) was issued to Nova Classical Academy on October 28, 2016. The NAD was issued to Nova Classical Academy for the identified release of lead and chromium.

Details on the site history, impacts, and environmental activities are provided in the individual reports listed in the references in Appendix J.

D. 2025 Phase II ESA

In support of the planned redevelopment at the Site addressed by this PII/RAP, a supplemental Phase II ESA was performed concurrently with additional geotechnical evaluation at the Site in 2025 (2025 Phase II ESA) The scope, methods, and findings of the 2025 Phase II ESA are described below.

D.1. Methods

D.1.a. Soil Borings

Braun Intertec advanced two hand auger soil borings, designated as HA-1 and HA-2 at the Site to depths ranging from 4 feet bgs and 2 feet bgs, respectively, using a hand-driven bucket auger. Braun Intertec subcontracted Range Environmental Drilling, Hibbing, Minnesota, to advance one soil boring, designated as TW-1 at the Site to a depth of 15 feet bgs.

Soil boring TW-1 was completed with a hydraulically-driven push-probe sampling rig. To collect the soil samples from the borings, a disposable thin-walled PVC liner was placed inside of a 5 foot long sampling tool. The borehole was then advanced using a dual-tube system, which allows for the inner sampling tool to be pushed through a larger outer-diameter rod a total penetration depth of up to 5 feet. After advancing the tooling, the sampler was removed from the borehole, but the outer rod remained, keeping the borehole open, and the soil sample was retrieved from the PVC liner for field screening and classification. The process was then repeated to the termination depths of the boring.

Between the soil boring and the soil vapor probes, non-dedicated sampling equipment was cleaned with a soap and water scrub followed by a clean water rinse.

This investigation includes soil borings advanced to depths of 15 feet or deeper. Following temporary well use, the well materials were removed, and the boreholes were sealed in accordance with MDH regulations. MDH Well and Boring Sealing Records are included in Appendix C.

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D.1.b. Soil Classification and Monitoring

Soils samples from the soil boring and hand auger borings were visually and manually classified in the field by an environmental technician using ASTM D 2487 "Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)" and ASTM D 2488 "Standard Practice for Description and Identification of Soils (Visual-Manual Procedures)".

Soil samples retrieved were examined by an environmental technician, for unusual staining, odors, and other apparent signs of contamination. In addition, the soil samples were screened for the presence of organic vapors using a PID. The PID was equipped with a 10.6-electron-volt lamp and calibrated to an isobutylene standard. The PID was used to perform a headspace method of field analyses in accordance with Braun Intertec SOPs.

D.1.c. Soil Analysis

Selected soil samples were collected from the hand auger borings for laboratory analysis. Soil samples were generally collected from depths most likely to be encountered during proposed redevelopment activities.

Samples were submitted to Pace Analytical Services of Minneapolis, Minnesota and analyzed for a combination of the following parameters:

- VOCs using United States Environmental Protection Agency (EPA) Method 8260
- PAHs using EPA Method 8270
- DRO with silica gel cleanup using the Wisconsin Department of Natural Resources Method (WDNR)
- GRO using the WDNR Method
- Eight RCRA metals using EPA Methods 6010 and 7471

D.1.d. Groundwater Evaluation

A temporary monitoring well (designated as TW-1) was installed in the push-probe soil boring to evaluate groundwater conditions at the Site. The well was permitted with the MDH. The temporary monitoring well location is shown in Figure 2.

After the soil boring was advanced at least 5 feet into the water table, a temporary monitoring well was constructed using 1-inch-diameter PVC riser and a 5-foot long, 10-slot screen. Prior to sampling, the static groundwater level was measured in the monitoring well to the nearest 0.01 foot and recorded. The temporary monitoring well was sampled using a length of new polyethylene tubing equipped with a

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peristaltic pump. The water sample retrieved was examined by the field technician for unusual odors, petroleum-like sheen, and other apparent signs of contamination. The groundwater sample was placed directly into laboratory supplied containers, preserved appropriately, and submitted to the laboratory for chemical analysis.

D.1.e. Groundwater Analysis

The groundwater sample collected from the temporary well was submitted to Pace Analytical Services of Minneapolis, Minnesota and analyzed for a combination of the following parameters:

- VOCs using EPA Method 8260
- Dissolved lead and chromium by 6010
- DRO using the WDNR Method
- pH by SM 4500-H+B

D.1.f. Soil Vapor Probes

Six temporary soil vapor probes (VP-1 through VP-6) were completed by Range Environmental Drilling during the MPCA-defined non-heating season in general accordance with the MPCA document entitled *Vapor Investigation and Mitigation Decision Best Management Practices* dated April 2020, c-rem3-06e (MPCA 2020 Vapor Investigation Guidance). Each soil vapor probe was advanced, using a hydraulically-driven push-probe rig, to a depth of 5 feet bgs and then retracted to a depth of 3 feet bgs. New, inert tubing was attached to a screened sample point (implant) at the bottom of the rod assembly. Once the tubing was attached, the push-probe rods were removed, leaving the implant and sampling tubing in the hole at a depth of 4 feet bgs. A sand pack was placed around the implant that extended from the bottom of the hole at 5 feet bgs to 12-inches above the implant. Bentonite grout was used to fill in the hole around the tubing above the sand pack. The sampling point and tubing were purged with a hand pump to remove two volumes of air prior to sample collection. Following purging, organic vapor concentrations were screened with a PID and the value was recorded. The soil vapor samples were then collected using laboratory-supplied negative pressure air-sample collection canisters (6-liter canisters) equipped with 200 milliliter per minute (mL/min) flow restrictors. Following sample collection, the temporary sampling point was covered with a foam weatherproof cover to temporarily secure the point.

Braun Intertec returned to the Site during the MPCA heating season to collect soil vapor samples from the sample point/implants in the same manner as described above. The sampling points will be removed in the future.

The soil vapor samples were submitted to Pace National of Mt. Juliet, Tennessee and analyzed for VOCs using EPA Method TO-15.

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D.2. Investigation Results

D.2.a. Geologic Conditions

Soil boring logs with descriptions of the various soil strata encountered during the soil boring operations and water level information are contained in Appendix D. The depths shown as changes between the soil types are approximate. The actual changes may be transitional, and the transition depths are likely to be horizontally variable.

Topsoil consisting of silty sand with trace gravel and organic matter was encountered from the ground surface to a depth of approximately 6 inches bgs. Fill soils, consisting primarily of poorly-graded sand with rock cobbles and silty sand, were encountered from 6 inches bgs to a depth of 13 feet bgs. Underlying the fill soils, apparent native sandy silt with gravel was found from 14 feet bgs to the terminus of the boring at 15 feet bgs.

Groundwater was encountered at a depth of 8.85 feet bgs. Based on the site geology, the encountered groundwater may have been perched.

D.2.b. Field Screening

Soil recovered from the soil borings was screened by the field technician for evidence of contamination, including odors, staining, and the presence of debris. No odors, staining, or debris were observed in the soils recovered from any of the three borings.

Organic vapor/PID readings were recorded for soil samples collected from each borings. Observed organic vapor concentrations ranged from 0.1 to 0.8 parts per million (ppm), which are considered to be general background readings. Soil screening PID results are included on the boring logs in Appendix D.

The groundwater sample was examined by the field technician for evidence of contamination, including unusual odors, petroleum-like sheen, and other apparent signs of contamination. No odors, sheens, or other signs of contamination were observed in the groundwater recovered from the temporary monitoring well.

D.2.c. Soil Analytical Results

This section provides a discussion of soil analytical results. A summary of the soil analytical results is provided in Table 1. The complete laboratory reports with chain-of-custody forms are included in Appendix E.

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The soil analytical results can be compared with the Soil Reference Values (SRVs), Background Threshold Values (BTVs), and Screening Soil Leaching Values (SLVs), which are also listed on Table 1. The SRVs and SLVs are allowable risk-based contaminant concentrations derived by the Minnesota Pollution Control Agency (MPCA) using risk assessment methodology, modeling, and risk management policy to guide investigation and cleanup actions. SRVs relate to direct-contact exposure scenarios and SLVs relate to potential leaching of contaminants to groundwater. BTVs were established by the MPCA based on an estimate of state-wide natural background concentrations for inorganics and ambient background concentrations for organics. BTVs are used in instances where the MPCA calculated a health-based SRV that is below estimated background values (MPCA guidance document c-r1-05, April 2021).

Concentrations of contaminants in soil, SRVs, BTVs (where applicable), and SLVs are expressed in units of milligrams per kilogram (mg/kg).

The following provides a summary of the soil analytical results.

- No VOCs were detected at concentrations greater than or equal to the laboratory reporting limits.
- Varying concentrations of SVOCs were detected in both soil samples analyzed. The concentrations of the detected SVOCs were below the applicable regulatory standards.
- DRO and GRO were not detected at concentrations greater than or equal to the laboratory reporting limits.
- Varying concentrations of the eight RCRA metals were detected in each of the soil samples analyzed. However, none of the metal concentrations exceeded the respective Residential/Recreational SRVs and SLVs.

D.2.d. Groundwater Analytical Results

This section provides a discussion of the groundwater analytical results. A summary of the groundwater analytical results is provided in Table 2. For comparison purposes, Table 2 includes current Drinking Water Criteria (DWC) from the Minnesota Department of Health (MDH) Human Health-Based Water guidance applicable to groundwater. Drinking Water Criteria include a combination of MDH Health Risk Limits (HRLs), MDH Health Based Values (HBVs), MDH Risk Assessment Advice (RAA), and Maximum Contaminant Levels (MCLs) established by the Environmental Protection Agency (EPA). There are no established criteria for DRO and GRO for water that is not collected directly from wells used as drinking

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water sources. Concentrations of contaminants in water and Drinking Water Criteria are expressed in units of micrograms per liter (µg/L).

The complete laboratory reports with chain-of-custody forms are included in Appendix E.

The following provides a summary of the groundwater analytical results.

- No VOCs, lead, chromium, or DRO were detected at concentrations greater than or equal to the laboratory reporting limits.
- pH was measured at 7.4, which is considered neutral and not within the hazardous range.

D.2.e. Soil Vapor Analytical Results

This section provides a discussion of the soil vapor analytical results. A summary of the soil vapor analytical results is provided in Table 3. The complete laboratory reports with chain-of-custody forms are included in Appendix E.

For comparison purposes, Table 3 includes Intrusion Screening Values (ISVs). ISVs were developed by the Minnesota Pollution Control Agency (MPCA) in coordination with the Minnesota Department of Health (MDH) as screening values for evaluating vapor intrusion risks from VOCs identified in indoor air. The potential for indoor air to be impacted by soil vapor intrusion can also be assessed using ISVs. Concentrations of VOCs in air or soil vapor and ISVs are expressed in units of micrograms per cubic meter (µg/m^3).

Per MPCA Vapor Investigation Guidance, soil vapor results are compared to 33X ISVs to assess vapor intrusion risk if building conditions are appropriate. According to the guidance, soil vapor concentrations greater than 33X ISVs indicate a vapor source with potential vapor intrusion risk is present. A Site with contaminant concentrations greater than 33X ISVs would typically require either mitigation or additional assessment of potential pathways and receptors to better quantify risks, which might include collection of sub-slab or indoor air samples.

Various petroleum and non-petroleum related VOCs were identified in the soil vapor samples at concentrations less than 33X Residential ISVs.

D.2.f. Quality Assurance/Quality Control

A data quality assessment of field procedures and laboratory reports was performed to determine the effect of any deviations on data quality and used to support project objectives. All applicable

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Braun Intertec SOPs were followed as prescribed unless otherwise noted in this report. Notable findings are provided in more detail below and incorporated, where necessary, into this report.

Soil and groundwater samples were placed in clean, laboratory-supplied containers, preserved, labeled, and transported to Pace laboratory in Minneapolis, Minnesota under refrigerated conditions using chain-of-custody procedures. Soil vapor samples were collected in clean, laboratory-supplied canisters and transported to Pace laboratory in Mt. Juliet, Tennessee using chain-of-custody procedures. Chain-of-custody forms were reviewed at sample check-in and determined to be in general agreement with the contents of the sample coolers. Analyses were performed using EPA or other recognized standard procedures, and samples were analyzed within the EPA recommended holding times, except as noted below.

Laboratory reporting limits were compared against Minnesota Pollution Control Agency (MPCA) Soil Leaching Values (SLV) and MPCA Residential/Recreational Soil Reference Values (SRV) for soil samples, and against Drinking Water Criteria (DWC) for groundwater samples. DRO and GRO in soil were compared against MPCA unregulated fill criteria. Vapor analytical results were compared against the MPCA 33x Residential Intrusion Screening Values (ISV) limits. Reporting limits for the compounds analyzed during the investigation met their respective regulatory standards.

One soil trip blank and one water trip blank accompanied the investigative samples. The soil trip blank was analyzed for VOCs and GRO, and the water trip blank was analyzed for VOCs. VOCs and GRO were not detected above the method reporting limits in the trip blanks.

Soil

The laboratory reported numerous continuing calibration verification (CCV) and secondary source verification (ICV) issues with 8260D VOC analyses of soil samples. The affected analytes were non-detect, and the quantitation limits are considered estimated. However, all VOC results are below their applicable regulatory limits.

Groundwater

pH analysis of sample TW-1 (8.5-13.5) was conducted beyond the technical holding time of 15 minutes. This result is considered estimated.

The relative percent difference (RPD) of DRO between the laboratory control sample/duplicate (LCS/D) samples was above method acceptance criteria. DRO was non-detect in the associated sample, and the result is accepted without qualification.

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Soil Vapor
In samples VP-4 (10/29/24), VP-5 (10/29/24), and VP-6 (10-29/24), acetone recovered above the upper calibration limit in the soil vapor analyses. These results are considered estimated, but they are below 33x the Residential ISV.

In summary, data quality control items identified during the quality review were evaluated and all data collected are acceptable for use in this investigation for the intended purpose of identifying soil, groundwater, and vapor impacts within the area of concern.

D.3. Conclusions

The 2025 Phase II ESA identified sandy fill soils from the ground surface to a depth of 13 feet bgs. Underlying the fill soils, apparent native sandy silt with gravel was found to the terminus of boring TW-1 at a depth of 15 feet bgs. No environmental impacts were identified in the observed soil, groundwater, or soil vapor.

Groundwater was found in temporary well TW-1 at a depth of 8.85 feet bgs.

The analytical results from the 2025 Phase II ESA are included as Tables 1 through 3. A figure depicting sample locations is included as Figure 2.

D.4. Recommendations

Due to the results of the 2025 Phase II ESA, no soil, groundwater, or soil vapor response actions are required at the Site.

However, due to the history of the Site (see section C.3) as part of the former Koch Tank Farm Area, and the enrollment of the Nova Academy property to the south in the MPCA Voluntary Investigation and Cleanup and Minnesota Brownfields programs, a passive vapor mitigation system should be installed similar to the system that was installed in the existing Nova Classical Academy building.

Upon approval from the Friends of Nova Academy, Braun Intertec will enroll the Site in the MPCA's Voluntary Brownfields programs.

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E. Potential Receptors and Exposure Pathways

Based on current development plans, construction activities are not expected to come into contact with the consolidated lead and chromium soils previously placed under the western portion of the Site. Based on the results of the soil analytical sampling during the 2025 Phase II ESA, the shallow fill soil that will be encountered during the development shows no signs of environmental impacts.

Groundwater may be encountered during utility construction. Based on results of the 2025 Phase II ESA, the groundwater at the Site does not show any signs of impacts and could be routed to the storm sewer.

Soil Vapor laboratory analysis does not show elevated concentrations of VOCs above MPCA action levels. However, a passive vapor mitigation system is planned to maintain consistency with the intentions and plans for the existing Nova Classical Academy building.

F. Proposed Response Actions

F.1. Response Action Objectives

The installation of a passive vapor mitigation system is recommended for the Site due to the Site's history and for consistency with the installation of a similar system in the Nova Academy building to the south of the Site. Based on the results of the 2025 Phase II ESA, no soil, groundwater, or soil vapor response actions are required.

F.2. Passive Soil Vapor Mitigation Actions

A passive soil vapor mitigation system is planned to be installed in the building to provide consistency with past response actions and is being proposed based on conversations with MPCA staff.

F.2.a. Passive Vapor Mitigation System Design

The soil vapor system design will be prepared by Braun Intertec based upon the proposed building plans. The design will result in a component installation in the building consisting of a gas-permeable aggregate and/or sand layer beneath the slab with sub-grade vapor collection piping beneath the concrete slab, and multiple exhaust risers to the exterior of the building. The proposed layout of the passive VMS is shown in Figure 3. Once the final foundation, footing, plumbing and mechanical designs have been

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developed, a detailed design and specification for the VMS will be prepared and provided to the project team for review and approval.

F.2.b. Passive Vapor Mitigation System Installation Observations

Braun Intertec will review construction submittals related to the construction plan set. Braun Intertec may also attend a virtual pre-construction meeting with the Client, general contractor (GC), vapor barrier installer, and other construction trades required to discuss the installation of the vapor mitigation components.

Braun Intertec will observe the installation of the vapor mitigation components including the gas-permeable layer, vapor barrier, associated piping, and exhausts for the proposed building. The number of visits necessary to observe the vapor mitigation components will be determined by the sequencing of construction, as determined by the GC.

No post-mitigation testing or sampling is planned to be conducted following installation of the passive vapor mitigation system.

G. Documentation

The results of the work performed will be included in a RAP Implementation Report (Report) that will be prepared upon completion of the project.

The Report will include field documentation and will include scaled site drawings illustrating any deviations from the original vapor mitigation system plans. In the event of any unexpected environmental contingencies are encountered during the development as described in the following section, those contingency actions will be documented and included in the Report.

Should we specifically state that No DEED Notice/Covenant related to the passive vapor mitigation system will need to be filed based on the available data and previous discussions with MPCA staff?

H. Construction Contingency Plan

The objective of this Construction Contingency Plan is to provide a protocol that will be followed if any unanticipated environmental conditions are encountered during RAP Implementation and construction activities. These environmental conditions may include, but are not limited to:

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- Buried drums or other containers
- Underground storage tanks
- Wells
- Buried Debris
- Asbestos-containing material
- Buried foundations from historical structures
- All other unknown contaminated media

Specifically, based upon the Site history and the conditions observed during previous investigations, Braun Intertec assumes that the following unanticipated conditions could be encountered during construction and development activities at the Site:

- Petroleum impacted soils and groundwater
- Buried demolition debris
- Buried underground storage tanks

This CCP will present a framework for managing contaminated media removed/encountered during redevelopment, and describe proposed remediation activities and required environmental monitoring/testing.

In the event indications of contamination or regulated waste are unexpectedly encountered during construction, this CCP will be implemented.

For the purposes of this CCP, indicators of potentially contaminated soil or groundwater include, but are not limited to the following:

- Odor, including gasoline, diesel, creosote (odor of railroad ties), mothballs, or other chemical-like odor.

- Soil stained green or black (not due to organic content), or with dark, oily appearance, or any unusual soil color or texture.

- A rainbow color (sheen) on contact water or soil.

Indicators of regulated wastes include, but are not limited to the following:

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- Cans, bottles, glass, scrap metal, or wood (indicators of solid waste and a possible dump).
- Concrete or asphalt rubble (indicators of demolition waste).
- Roofing materials, shingles, siding, vermiculite, floor tiles, or any fibrous material (indicators of demolition waste that could contain asbestos, lead or other chemicals).
- Culverts or other pipes with tar-like coating, insulation or transite (indicators of asbestos).
- Ash (ash from burning or regulated materials may contain lead or other chemicals).
- Sandblast residue (could contain lead or other metals).
- Treated wood, including, but limited to, products referred to as green-treated, brown-treated or creosote (treated wood disposal is regulated).
- Chemical containers such as storage tanks, drums, filters or other containers (possible sources of chemical contaminants).
- Old basements with intact floor tiles or insulation (could contain asbestos), sumps (could contain chemical waste), waste traps (could contain oily waste) or cesspools (could contain chemical or oily wastes)

H.1. Notification Requirements

In the event that unexpected contaminants or debris are encountered during construction when the environmental consultant is not on Site, work in the area shall cease immediately, and the work area shall be secured. Work outside of the vicinity of the discovery area can continue if conditions remain safe to do so for project personnel and the surrounding community. The contractor shall immediately notify the owner and/or the owner's representative. At the owner's and/or owner's representative's request, the environmental consultant will mobilize to the Site in the event that contamination is encountered. At this time, the soils will be assessed in-situ as part of a preliminary reconnaissance for the presence of contamination using both visual and olfactory indications of contamination, as well as laboratory analysis.

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H.2. Communications

Communications include notifying the Braun Intertec Project Manager, who will notify the MPCA project manager of the unanticipated condition, the preliminary assessment of the hazard, and the expected response. The response may include collecting samples of wastes, soil, or water for chemical analysis or performing containerization or isolation activities prior to arranging for disposal.

H.3. First Response

The Field Representative will perform field sampling and air monitoring. Field equipment to be kept available on short notice will include a PID or equivalent, a portable dust meter, a combustible gas indicator, and containers and equipment for various air, water, and soil sampling which may be required. In addition, equipment and supplies as required for implementing the site-specific HASP will be available for use as needed.

H.4. Preliminary Reconnaissance

If contamination or regulated waste is unexpectedly encountered, the environmental consultant will mobilize to the Site to conduct a preliminary reconnaissance. During the preliminary reconnaissance, the environmental consultant will begin assessing the situation and obtaining air monitoring data with a PID, oxygen detector, or combustible gas indicator in accordance with procedures in the site-specific HASP. If conditions are safe, samples will be collected for field screening by visual observation and for jar headspace screening with a PID. This field screening data will be used to assess the hazard and develop a plan for response.

Samples of the potentially impacted soil will be collected from any stockpiles or from the excavation base and sidewalls for headspace screening using a PID using MPCA recommended methodologies. A minimum of 1 sample for headspace analysis will be collected for every 10 cubic yards of material removed. Visual and indirect olfactory indications of contamination will be noted. Screening results will be documented, and Site photographs will be taken, as appropriate.

As part of the preliminary reconnaissance, any potentially contaminated soil that is stockpiled will be placed on polyethylene sheeting or other impervious surfaces and covered with polyethylene sheeting that is secured in place. Staging areas for potentially impacted soil or material will be clearly marked. The results of the preliminary reconnaissance will be provided to the owner and/or the owner's representative. The contractor will not be allowed to continue to work in the area until the type(s)

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of contamination is identified, and an appropriate response action is defined by the owner and/or the owner's environmental representative.

H.5. Isolation

Isolation includes placing small containers or small quantities of soils into 55-gallon drums for containment or backfilling the excavation if larger containers or large quantities of impacted materials are present. The anticipated response for large quantities of hazardous materials is the notification of an emergency response contractor to develop a plan to isolate and contain the hazardous materials until treatment or disposal options can be determined. At least five new 55-gallon drums will be available on Site to containerize hazardous materials if necessary. If buried debris such as concrete or wood is encountered; the material will be excavated and stockpiled. It is anticipated that buried debris that cannot be re-used onsite can be disposed of in a landfill for demolition debris or municipal solid waste.

H.6. Emergency Response Contractors

Arrangements with appropriate emergency response contractors will be made if contingency actions are invoked.

The Field Representative will perform field sampling and air monitoring. Field equipment to be kept available on short notice will include a PID or equivalent, and containers and equipment for various air, water, and soil sampling which may be required. In addition, equipment and supplies as required for implementing the site-specific HASP will be available for use as needed.

H.7. Construction Contingency Response Actions

If contingency response actions are required, the MPCA project manager will be contacted to get approval for implementation of contingency response actions.

In general, after conducting the preliminary reconnaissance and assessing the type of contamination, environmental monitoring will be conducted during excavation of potentially contaminated materials. The results of the environmental monitoring will be used to segregate and stockpile the potentially contaminated material.

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If potential ACM is encountered, no excavation work will be conducted until the results of polarized light microscopy (PLM) testing are available. If ACM is detected, procedures established in Section I.3.b. will be followed.

Response actions, listed by contaminant/waste type, to manage unidentified contamination that is encountered during construction are detailed below.

H.7.a. Petroleum-Contaminated Soils

If petroleum-contaminated soils are identified during construction, soils will be segregated and handled in accordance with MPCA Petroleum Remediation Guidance Document 3.01 "Excavation of Petroleum Contaminated soil and Tank Removal Sampling."

H.7.b. Debris and Asbestos-Containing Materials

In the event that debris suspected of containing asbestos is encountered during earthwork activities, it will be evaluated in-situ for the presence of asbestos by bulk sampling and analysis by polarized light microscopy (PLM). If ACM is encountered, protocol outlined in the July 1999 MPCA *Asbestos Guidance on Excavation Projects* will be followed including implementation of an emissions control plan (ECP).

An ECP will be prepared if needed, upon request. In addition, as the debris is excavated and removed, if encountered, it will be properly recycled or soil containing greater than 3% debris will be disposed. ACM will be properly disposed of off-Site; no soil containing ACM will be reused on Site.

H.7.c. Non-Petroleum-Impacted Soil

Soils that exhibit non-petroleum impacts will be segregated, stockpiled, and sampled. Field methods and procedures, analytical testing and decisions regarding soil disposition will be consistent with Braun Intertec Standard Operation Procedures (SOPs).

H.7.d. Clean Soil Buffer Soils – Buildings and Pavements

Per MPCA requirements a clean soil buffer will be placed between any discovered contaminated soil (soils with SRV concentration greater than individual MPCA commercial/industrial standards) and the building floors and pavements. The soils will be derived from on-Site soils that will be excavated to allow placement of the contaminated soil/debris. The clean soils will be stockpiled and used to cover the contaminated soil, forming the required buffer.

The requirements for the buffer soils are as follows:

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- If impacted soils are encountered, the industrial SRV will be met within the top two feet of the sub grade in the planned building pad, parking and drive areas.

- The clean soil buffer cover thicknesses will be measured from the base of pavement and the 24 inches will take into account the clean base gravel required for the pavements and the building floors.

H.7.e. Pavement

The pavement drive and parking areas, that are not designated to perform as stormwater BMPs or down gradient of stormwater BMPs, will be used as a component of the engineered cover over the top of potentially impacted soil/gravel if discovered.

H.7.f. Storage Tanks or Drums

In the event that drums, or other storage containers are encountered during earthwork activities, they will be removed, and their condition evaluated by appropriately trained personnel. If the containers are determined to be in poor condition, the materials will be transferred to a new drum that is in good condition. The drums will be placed in a secure location. Containerized materials will be evaluated, tested, and properly disposed.

Soil from the area around the container will be screened for indications of contamination. Potentially impacted soil will be segregated and stockpiled. Soil samples will be collected from stockpiled materials for chemical analyses and confirmation soil samples will be collected from remaining in-place soil.

If a possible underground storage tanks (USTs), indicated by a metal or concrete surface, is encountered during excavation activities, the area around the possible underground structure will be carefully excavated. The underground structure will be tested to evaluate the depth to bottom or the presence of liquid. If liquid is present, further testing will be conducted to evaluate its contents. Liquid will be removed by pumping prior to removal and disposal of the structure. All UST contents will be handled in accordance with MPCA and Occupational Safety & Health Administration (OSHA) requirements. The UST will be removed by a licensed UST removal contractor and will be completed in accordance with MPCA requirements. Soil surrounding the tank or structure will be monitored for possible impacts and sampled for chemical analyses in accordance with MPCA, Petroleum Remediation Program, Guidance Document #3-01.

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H.7.g. On-Site Wells and Septic Systems

All wells must be sealed by a licensed well contractor in accordance with Minnesota Department of Health (MDH) regulations. Septic systems also should be properly abandoned in accordance with local and state code.

I. Site Health and Safety Plan

Braun Intertec will prepare a Health and Safety Plan for its personnel that will be on Site. Site contractors will be provided with information regarding the locations of potential soil contamination as they become available.

The Field Representative is the site safety officer and has a primary responsibility for ensuring site safety and adherence to the Site-specific HASP. The HASP addresses, but is not limited to, the level/type of personal protective equipment (PPE) required during the phases of soil correction activities, and procedures for and frequency of personal airborne dust monitoring. Both the HASP and contractors' HASPs will be available on-site at all times. All visitors to the Site must familiarize themselves with these HASPs and sign in and out when entering or leaving the Site.

In general, access to the fenced work areas will be limited to construction workers and project staff. The Field Representative, as site safety officer will allow no entry to the work areas at the Site without their permission. The Field Representative will be responsible for maintaining the Daily Sign In/Out Log that will be kept in the Site field trailer. All visitors to the site must sign in and out. Access to construction areas will be limited to personnel following required health and safety protocols during periods of excavation, backfill, and compaction when exposures to potentially impacted soil could occur. The Field Representative shall enter no excavation that is greater than 4 feet in depth.

The Field Representative will direct the contractor to fence off excavations of greater than 3 feet with snow fencing (or a suitable alternative) at the end of each work shift to eliminate access to potentially impacted soils.

Construction workers who may be exposed to potentially impacted soils will be required to use protective equipment to include, but not be limited to the following:

- Hard hat;
- Steel-toed boots;

- Orange vest when working around heavy equipment;
- Safety glasses;
- sleeved clothing; and
- Disposable gloves, boot covers, or coveralls may be used if circumstances dictate. (i.e., rainy and muddy weather)

The following work practices will be implemented by workers when they may be exposed to potentially impacted soils:

- No eating, drinking, or smoking in work areas.
- Wash hands prior to eating, drinking or smoking in designated areas outside the work zone.
- Decontaminate personnel (boot wash, hand wash) and equipment (pressure wash or steam clean) if exposed to impacted soils.

J. Standard of Care

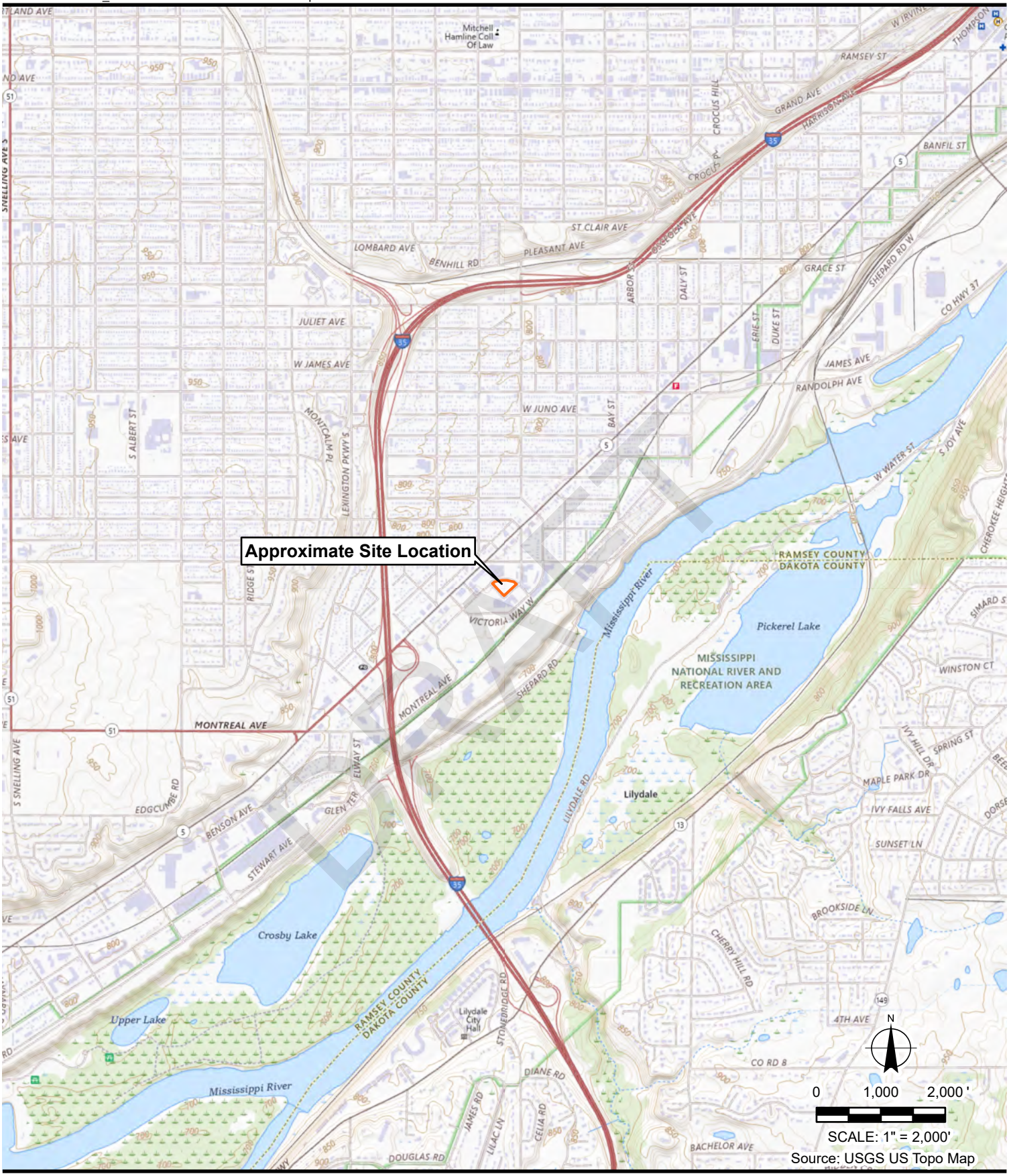
In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

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Figures

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11001 Hampshire Avenue S
Minneapolis, MN 55438
952.995.2000
braunintertec.com

Project No:	B1608280.02
Drawing No:	Fig1_SiteLocation
Drawn By:	MMH
Date Drawn:	2/26/2025
Checked By:	BF
Last Modified:	2/26/2025

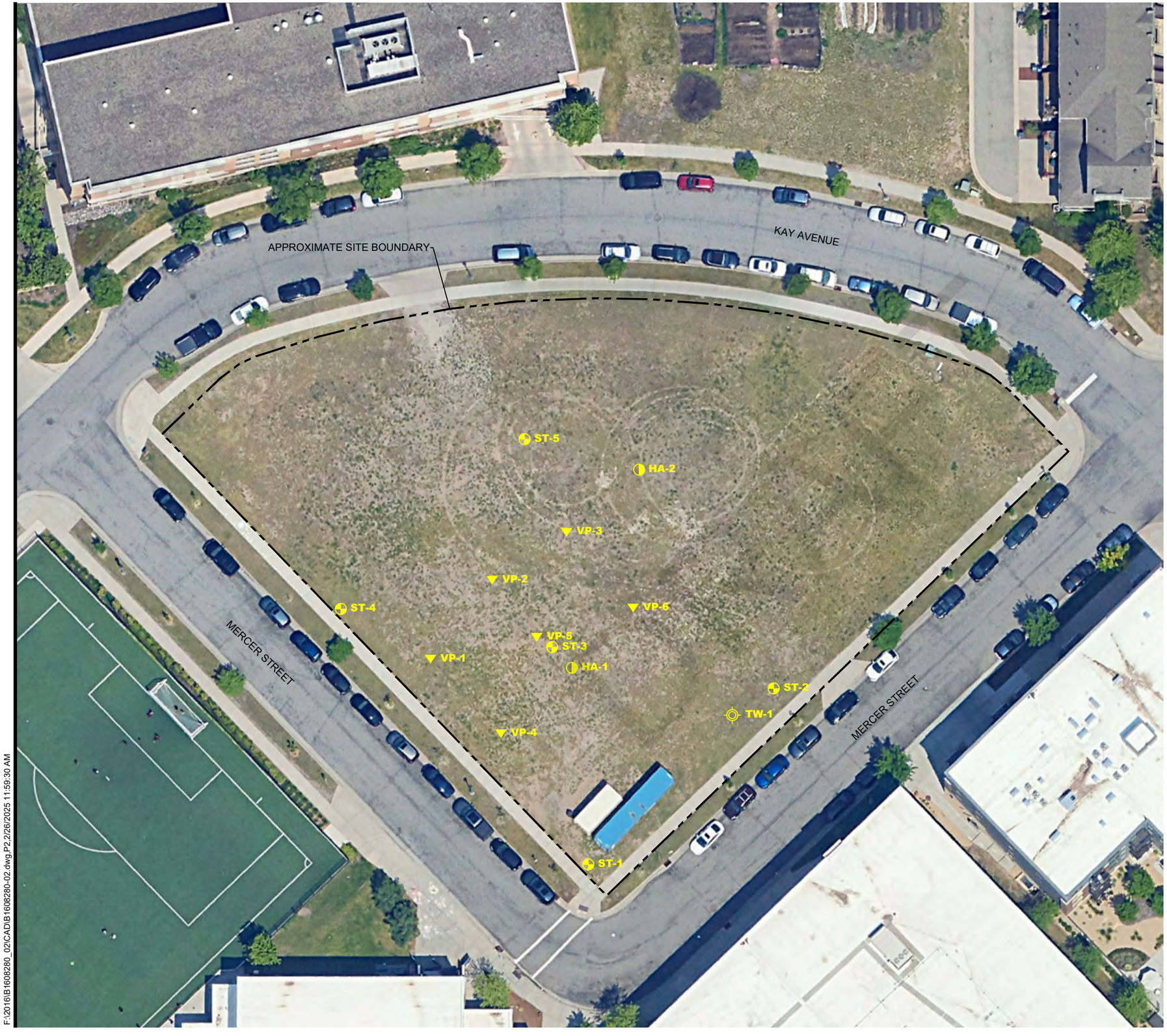
Nova Classical Academy Building Addition

1455 Victoria Way

St. Paul, Minnesota

Site Location Map

Figure 1



HAND AUGER BORING

TEMPORARY MONITORING WELL

SOIL VAPOR SAMPLE LOCATION

GEOTECHNICAL SOIL BORING

N

20' 0 40'

SCALE: 1"=40'

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BRAUN INTERTEC
The Science You Build On.
11001 Hampshire Avenue S
Minneapolis, MN 55438
952.995.2000
braunintertec.com

Drawing Information

Project No:	B1608280.02
Drawing No:	B1608280-02
Drawn By:	MMH
Date Drawn:	2/26/25
Checked By:	BF
Last Modified:	2/26/25

Project Information

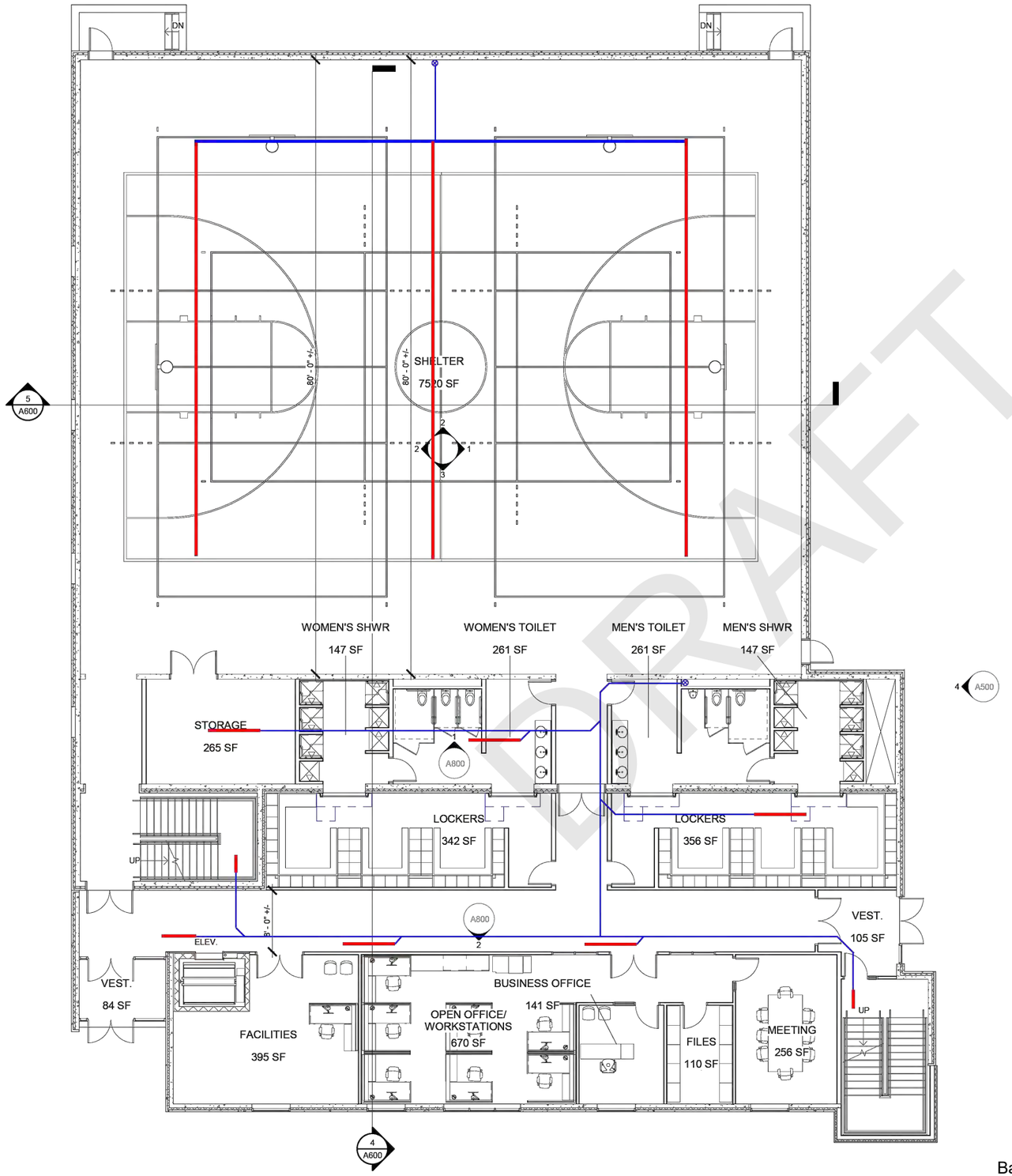
Nova Classical Academy Building Addition

1455 Victoria Way

St. Paul, Minnesota

Investigation Locations

Figure 2



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Conceptual Vapor Mitigation Design

- 4-Inch Schedule 40 Solid Wall PVC Below Slab
- 4-Inch Perforated Dual-Wall HDPE Below Slab
- 6-Inch Schedule 40 Solid Wall PVC Riser to Roof

Basemap Source: Hay Dobbs Architecture, Sheet A201A, October 10, 2024

BRAUN INTERTEC
The Science You Build On.
11001 Hampshire Avenue S
Minneapolis, MN 55438
952.995.2000
braunintertec.com

Drawing Information

Project No:	B1608280.02
Drawing No:	B1608280-02
Drawn By:	MMH
Date Drawn:	2/26/25
Checked By:	BF
Last Modified:	2/26/25

Project Information

Nova Classical Academy
Building Addition

1455 Victoria Way

St. Paul, Minnesota

Concept Vapor Sketch

Figure 3

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Tables

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Table 1
Soil Analytical Results
Nova Classical Academy
St Paul, Minnesota
Project B1608280.02

Compound/Parameter	CAS No.	Sample Identifier and Date Collected			Residential/ Recreational SRV (mg/kg)	Commercial/ Industrial SRV (mg/kg)	SLV (mg/kg)
		HA-1 (3-4)	**HA-2 (1-2)**	**Trip Blank**			
		10/29/2024	10/29/2024	10/29/2024			
Volatile Organic Compounds (VOCs) (mg/kg)							
All other reported VOCs	---	<RL	<RL	<RL	---	---	---
Polycyclic Aromatic Hydrocarbons (PAHs) (mg/kg)							
Benz(a)anthracene	56-55-3	**0.018**	**0.021**	---	cPAH	cPAH	cPAH
Benzo(b)fluoranthene	205-99-2	**0.025**	**0.031**	---	cPAH	cPAH	cPAH
Benzo(a)pyrene (BaP)	50-32-8	**0.017**	**0.022**	---	2[BTV]; cPAH	23; cPAH	1.4; cPAH
Benzo(g,h,i)perylene	191-24-2	**0.013**	**0.017**	---	NE	NE	NE
Chrysene	218-01-9	**0.017**	**0.019**	---	cPAH	cPAH	cPAH
Fluoranthene	206-44-0	**0.029**	**0.029**	---	210	2,700	670
Indeno(1,2,3-cd)pyrene	193-39-5	**0.013**	**0.017**	---	cPAH	cPAH	cPAH
Phenanthrene	85-01-8	**0.014**	**0.014**	---	NE	NE	NE
Pyrene	129-00-0	**0.029**	**0.029**	---	220	3,200	440
All other reported PAHs	---	<RL	<RL	---	---	---	---
BaP Equivalent Concentration[c]	---	**0.02277**	**0.02909**	---	2[BTV]	23	1.4
Metals (mg/kg)							
Arsenic, Total	7440-38-2	**1.7**	**1.2**	---	9[BTV]	9[BTV]	5.8
Barium, Total	7440-39-3	**33.9**	**22.6**	---	3,100	41,000	1,700
Chromium, Total[e]	7440-47-3	**7.1**	**6.8**	---	23,000/2.3[e]	100,000/62[e]	1,000,000,000/36[e]
Lead, Total	7439-92-1	**5.5**	**3.4**	---	200	460	2,700
Petroleum Parameters (mg/kg)					**MPCA Unreg. Fill Criterion**		
DRO with Silica Gel Clean-up	---	<8.3	<7.9	---	100[f]		
Gasoline Range Organics (GRO)	---	<11.7	<10.5	---	100[f]		

Notes

Minnesota Pollution Control Agency (MPCA) Soil Reference Values (SRVs) updated in March 2024 and Soil Leaching Values (SLVs) updated in June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

Bold indicates the compound was detected at or above the laboratory reporting limit.

BTV = Background Threshold Value. BTVs are not calculated health based SRVs. The MPCA calculated SRVs were determined to be below background values (MPCA guidance document c-r1-05, April 2021).

cPAH = Individual regulatory limit not established for this carcinogenic PAH; included in BaP equivalent calculation.

NE = Regulatory limit not established for this parameter.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

[c] = Benzo(a)pyrene (BaP) equivalent concentration is calculated based on the concentration and weighted toxicity of cPAHs (MPCA, 2009). If no cPAHs were detected above reasonable laboratory reporting limits the BaP equivalent concentration is reported as 0 mg/kg per MPCA Remediation Division Policy (June 2011).

[e] = Reported result is total chromium, regulatory limit for chromium III and chromium VI are provided.

[f] = DRO/GRO concentrations greater than 100 mg/kg are not suitable for reuse as unregulated fill per MPCA Guidance Document c-rem1-01 "Best Management Practices for the Off-Site Reuse of Unregulated Fill" (February 2012).

Exceeds Residential/Recreational SRV
Exceeds SLV
Exceeds 100 mg/kg for DRO/GRO

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Table 2
Groundwater Analytical Results
Nova Classical Academy
St Paul, Minnesota
Project B1608280.02

Compound/Parameter	CAS No.	Sample Identifier, Depth to Groundwater, and Date Collected		Drinking Water Criteria (µg/L)	Source-Date
		TW-1 (8.5 - 13.5)	**Trip Blank**		
		10/29/2024	10/29/2024		
Volatile Organic Compounds (VOCs) (µg/L)					
All other reported VOCs	---	<RL	<RL	---	---
Metals (µg/L)					
Chromium, Dissolved[d]	7440-47-3	<10.0	---	20,000/100[d]	HRL-94
Lead, Dissolved	7439-92-1	<10.0	---	15	MCL
Petroleum Parameters (µg/L)					
DRO with Silica Gel Clean-up	---	<100	---	NE[e]	---
Other Parameters					
pH (standard units)	---	**7.4** [1]	---	NE	---

Notes

The hierarchy of Drinking Water Criteria (DWC) presented is: Minnesota Department of Health (MDH) Health Risk Limit (HRL), United States Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL), MDH Health-Based Value (HBV), MDH Risk Assessment Advice (RAA), or MDH Rapid Assessment of Pesticides (RAP), as available. The most conservative values for chronic or cancer exposures are presented. The dates of promulgation are provided, if available.

µg/L = Micrograms per liter.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

Bold indicates the compound was detected at or above the laboratory reporting limit.

Indicated depths are feet below ground surface.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

NE = Regulatory limit not established for this parameter.

[d] = Reported result is total chromium, criteria for chromium III and chromium VI are provided.

[e] = No applicable standard exists. When sampling water directly from drinking water wells, refer to the Minnesota Department of Health's (MDH's) document entitled *Guidance for Evaluating Health Risks for Gasoline and Diesel Contaminated Drinking Water,* dated November 2018.

[1] = Analysis initiated outside of the 15 minute EPA required holding time

Exceeds Drinking Water Criteria

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Table 3
Soil Vapor Analytical Results
Nova Classical Academy
St Paul, Minnesota
Project B1608280.02

Compound/Parameter	CAS No.	Sample Identifier, Sample Depth, PID Reading, and Date Collected												33X Residential ISV (µg/m³)
		VP-1		VP-2		VP-3		VP-4		VP-5		VP-6		
		10/29/2024	12/11/2024	10/29/2024	12/11/2024	10/29/2024	12/11/2024	10/29/2024	12/11/2024	10/29/2024	12/11/2024	10/29/2024	12/11/2024	
Volatile Organic Compounds (VOCs) (µg/m³)														
Acetone	67-64-1	**38.5**	**6.42**	**17.4**	**5.87**	**117**	**7.27**	**2520** [1]	**11.4**	**269** [1]	**7.60**	**855** [1]	**13.2**	1,100,000
Benzene	71-43-2	**3.06**	< 0.639	**2.84**	< 0.639	**9.97**	< 0.639	**6.20**	< 0.639	**19.9**	< 0.639	**9.46**	< 0.639	43
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	**6.75**	< 3.69	< 3.69	< 3.69	**12.0**	< 3.69	**34.5**	< 3.69	**16.0**	**12.1**	**36.0**	< 3.69	100,000
Carbon disulfide	75-15-0	**1.48**	< 1.24	**1.56**	< 1.24	**2.74**	< 1.24	< 1.24	< 1.24	**11.8**	< 1.24	**3.30**	< 1.24	28,000
Chloromethane	74-87-3	< 0.413	< 0.413	< 0.413	< 0.413	< 0.413	**0.533**	< 0.413	< 0.413	< 0.413	< 0.413	< 0.413	< 0.413	3,100
Cyclohexane	110-82-7	**1.70**	**3.44**	**1.39**	**2.89**	**4.37**	**2.47**	**3.55**	**1.87**	**9.33**	**1.99**	**5.54**	**1.81**	210,000
Dichlorodifluoromethane (Freon 12)	75-71-8	**2.08**	**2.10**	**2.05**	**2.21**	< 0.989	**2.28**	**2.58**	**2.34**	< 0.989	**2.06**	**1.94**	**2.36**	NE
Ethanol	64-17-5	**7.99**	< 4.71	**7.18**	**8.26**	**13.2**	< 4.71	**85.2**	**7.49**	< 4.71	**7.75**	**111**	**7.96**	NE
Ethyl acetate	141-78-6	**2.29**	< 2.27	< 2.27	< 2.27	< 2.27	< 2.27	< 2.27	< 2.27	< 2.27	**3.92**	< 2.27	< 2.27	2,400
Ethylbenzene	100-41-4	**2.45**	< 0.867	**4.29**	< 0.867	**5.81**	< 0.867	**22.1**	< 0.867	**7.28**	< 0.867	**25.7**	< 0.867	140
4-Ethyltoluene	622-96-8	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	**11.9**	< 0.982	**1.02**	< 0.982	**11.1**	< 0.982	NE
n-Heptane	142-82-5	< 0.818	< 0.818	**2.91**	< 0.818	**7.40**	< 0.818	**9.24**	< 0.818	**14.1**	< 0.818	**14.5**	< 0.818	14,000
n-Hexane	110-54-3	**3.34**	< 2.22	**4.79**	< 2.22	**11.9**	< 2.22	**11.1**	< 2.22	**25.3**	< 2.22	**22.5**	< 2.22	24,000
Methylene chloride (Dichloromethane)	75-09-2	**2.57**	< 0.694	**4.86**	< 0.694	**2.74**	< 0.694	**18.2**	< 0.694	< 0.694	< 0.694	**5.59**	< 0.694	21,000
2-Propanol (Isopropyl alcohol)	67-63-0	< 3.07	< 3.07	< 3.07	< 3.07	< 3.07	< 3.07	**41.0**	< 3.07	< 3.07	**3.34**	**40.8**	< 3.07	7,000
Propylene	115-07-1	< 2.15	< 2.15	< 2.15	< 2.15	**46.8**	< 2.15	< 2.15	< 2.15	**165**	< 2.15	**84.9**	< 2.15	100,000
Styrene	100-42-5	< 1.70	< 1.70	< 1.70	< 1.70	**2.43**	< 1.70	**57.0**	< 1.70	**4.76**	< 1.70	**59.1**	< 1.70	31,000
Tetrachloroethene (Perchloroethene, PCE)	127-18-4	< 1.36	< 1.36	**1.98**	< 1.36	**2.00**	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	**4.02**	< 1.36	110
Tetrahydrofuran	109-99-9	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	**0.820**	< 0.590	< 0.590	70,000
Toluene	108-88-3	**17.4**	< 1.88	**6.37**	**3.74**	**162**	< 1.88	**2050**	< 1.88	**170**	**26.0**	**1680**	< 1.88	140,000
Trichlorofluoromethane (Freon 11)	75-69-4	**1.13**	< 1.12	< 1.12	< 1.12	**1.18**	**1.16**	**1.45**	< 1.12	**1.40**	**1.27**	< 1.12	**1.12**	33,000
1,2,4-Trimethylbenzene	95-63-6	**1.30**	< 0.982	**1.23**	< 0.982	**1.75**	< 0.982	**22.5**	< 0.982	**3.16**	< 0.982	**21.7**	< 0.982	2,100
1,3,5-Trimethylbenzene	108-67-8	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	**18.1**	< 0.982	**1.87**	< 0.982	**17.7**	< 0.982	2,100
Xylenes, m- & p-	179601-23-1	**1.90**	< 1.73	**2.31**	< 1.73	**6.07**	< 1.73	**68.1**	< 1.73	**9.36**	< 1.73	**75.0**	< 1.73	NE
Xylene, o-	95-47-6	**0.897**	< 0.867	**1.08**	< 0.867	**2.67**	< 0.867	**28.6**	< 0.867	**4.17**	< 0.867	**33.9**	< 0.867	NE
Xylenes, Total	1330-20-7	**2.80**	<RL	**3.39**	<RL	**8.74**	<RL	**96.7**	<RL	**13.53**	<RL	**108.9**	<RL	3,300[d]
All other reported VOCs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---

Notes
Minnesota Pollution Control Agency (MPCA) Intrusion Screening Values (ISVs) were updated in January 2021.
µg/m³ = Micrograms per cubic meter.
ppm = Parts per million.
< = Not detected at or above the laboratory reporting limit indicated.
--- = Not analyzed or calculated for this parameter or not applicable.
Bold indicates the compound was detected at or above the laboratory reporting limit.
RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.
NE = Regulatory limit not established for this parameter.
[d] = The laboratory reports values for m- & p- xylenes and o-xylene, however the regulatory limit is for the combination of m-, p-, and o-xylenes.
[1] = The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Exceeds 33X Residential ISV

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Table 3
Soil Vapor Analytical Results
Nova Classical Academy
St Paul, Minnesota
Project B1608280.02

Compound/Parameter	CAS No.	Sample Identifier, Sample Depth, PID Reading, and Date Collected												33X Residential ISV ($\mu g/m^3$)
		VP-1		VP-2		VP-3		VP-4		VP-5		VP-6		
		10/29/2024	12/11/2024	10/29/2024	12/11/2024	10/29/2024	12/11/2024	10/29/2024	12/11/2024	10/29/2024	12/11/2024	10/29/2024	12/11/2024	

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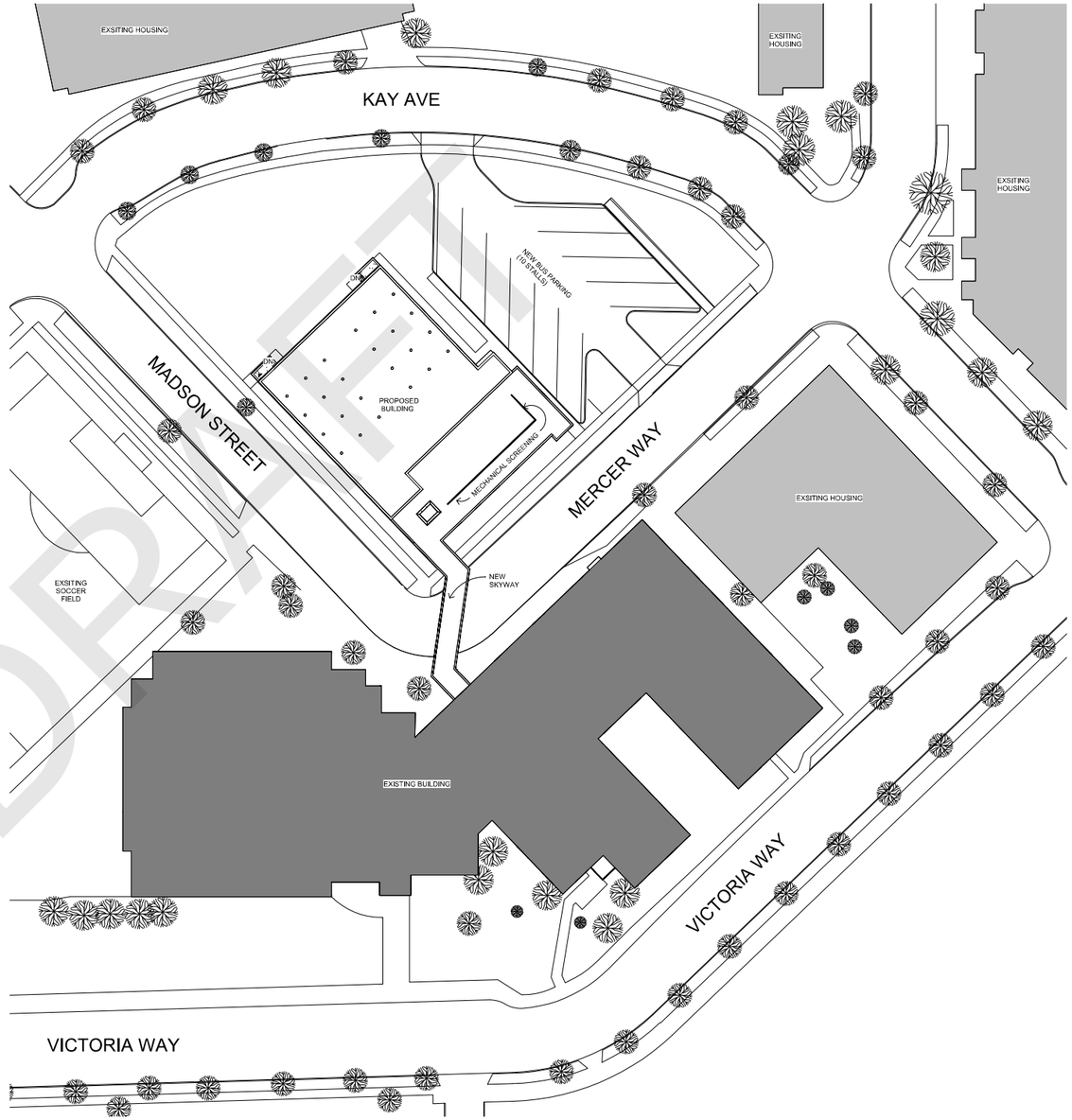
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Appendix A

Site Development Plans

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1 SITE PLAN
1" = 30'-0"

PROJECT TRUE

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HAY DOBBS
ARCHITECTURE
URBAN DESIGN
PLANNING
INTERIORS
WWW.HAYDOBBS.COM

Midtown Commons
2324 University Ave. W.
Suite 200
St. Paul, MN 55114
Tel. 651.330.4040

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY
Project Number: 23008.003
Date: 10/01/2024

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME

SIGNATURE

LICENSE NO.

10/01/2024
DATE

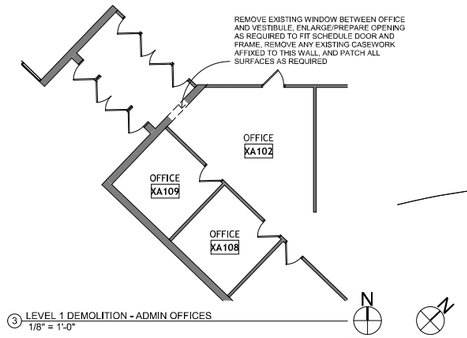
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ARCHITECTURAL SITE PLAN

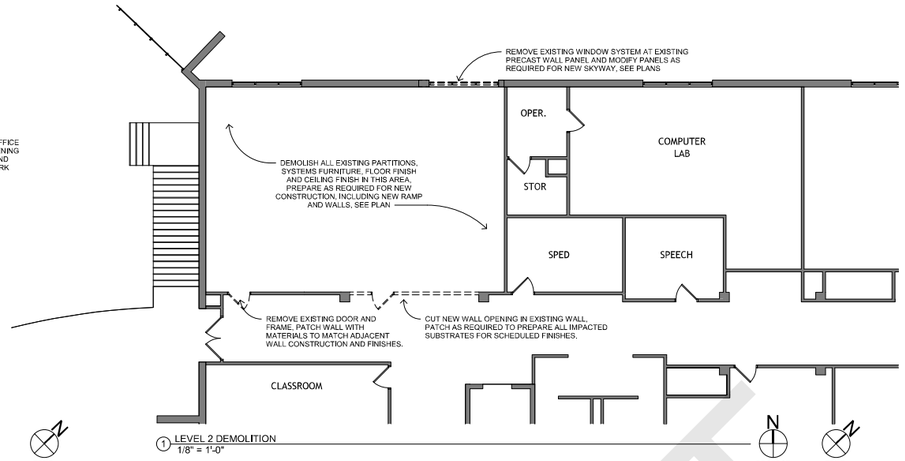
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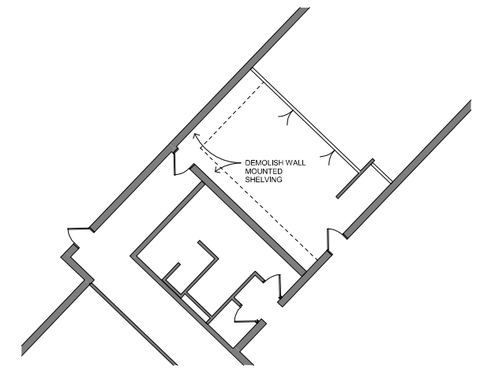
2008 HAY DOBBS, P.A. - CONFIDENTIAL



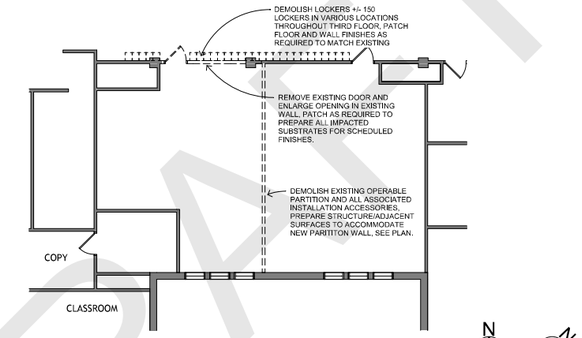
3 LEVEL 1 DEMOLITION - ADMIN OFFICES
1/8" = 1'-0"



1 LEVEL 2 DEMOLITION
1/8" = 1'-0"



4 LEVEL 1 DEMOLITION - FACILITIES ROOM (NEAR EXISTING STAGE)
1/8" = 1'-0"



2 LEVEL 3 DEMOLITION
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

A. PROVIDE ALL DEMOLITION WORK AS REQUIRED TO COMPLETE THE WORK IN THIS CONTRACT, INCLUDING THAT REQUIRED TO COMPLETE THE WORK SHOWN ELSEWHERE IN THESE DOCUMENTS, BUT NOT SPECIFICALLY IDENTIFIED ON THESE DEMOLITION PLANS.

B. SHADED AREAS ON THE PLAN GENERALLY INDICATE AREA TO CONTAIN NO DEMOLITION WORK. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL RELATED DEMOLITION THAT IS NECESSARY TO COMPLETE ALL WORK THAT IS DIRECTED BY THESE DOCUMENTS, WHETHER OR NOT THAT DEMOLITION WORK IS SPECIFICALLY IDENTIFIED ON THESE DEMOLITION PLANS OR IS LOCATED OUTSIDE THE AREAS OF CONSTRUCTION OR DEMOLITION THAT ARE IDENTIFIED ON THIS PLAN.

C. CONSTRUCTION SHOWN DASHED INDICATES CONSTRUCTION TO BE REMOVED. ALL PARTITIONS SHOWN TO BE DEMOLISHED ARE TO BE REMOVED FROM TOP OF FLOOR SLAB UP TO BOTTOM OF STRUCTURE ABOVE, UNLESS NOTED OTHERWISE. ALL CONSTRUCTION MOUNTED IN OR ON PARTITIONS TO BE REMOVED, SUCH AS DOORS, GLAZING AND OTHER WALL MOUNTED CONSTRUCTION AND FINISHES SHALL BE REMOVED AS A PART OF THE PARTITION DEMOLITION.

D. ALL PRIME CONTRACTORS AND SUBCONTRACTORS SUBMITTING BIDS SHALL CAREFULLY EXAMINE THE ENTIRE SET OF BIDDING DOCUMENTS, VISIT THE SITE OF THE WORK, RECORD THEIR OWN INVESTIGATIONS, AND SHALL BECOME FULLY INFORMED OF THE EXISTING CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK SHALL BE PERFORMED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

• EXISTING BUILDINGS: INCLUDING THE CONDITION OF EXISTING STRUCTURE, LOCATIONS AND CAPACITIES OF EXISTING UTILITIES, AND ANY OBSTACLE OR CONFLICT WHICH MAY BE ENCOUNTERED WHILE COMPLETING THE WORK DESCRIBED IN THE BIDDING DOCUMENTS

• SUBMITTAL OF A BID SHALL BE CONCLUSIVE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION, UNDERSTANDS THE CONTRACT DOCUMENTS IN THEIR ENTIRETY, AND IS FAMILIAR WITH THE SITE CONDITIONS IN WHICH THE WORK SHALL OCCUR. FAILURE TO MAKE SUCH AN EXAMINATION SHALL NOT BE ACCEPTED AS A BASIS FOR CLAIMS FOR ADDITIONAL COMPENSATION OR AN EXTENSION OF TIME.

• IF FIELD CONDITIONS ARE OBSERVED THAT CONFLICT WITH THE INTENTIONS AND FEASIBILITY OF THE WORK DESCRIBED IN THESE DOCUMENTS DURING BIDDING, THE CONTRACTOR/SUBCONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SO THAT THEY MAY MAKE ACCOMMODATIONS THROUGH AN ADDENDUM.

• SUBMISSION OF BID ALSO PRESUMES THAT ALL REQUIRED DEMOLITION WORK, WHETHER OR NOT IT HAS BEEN SPECIFICALLY IDENTIFIED BY THESE DOCUMENTS OR BY ADDENDUM, HAS BEEN INCORPORATED INTO THE BIDDER'S BID PROPOSAL.

E. WHERE FINISHES ARE TO BE REMOVED FROM EXISTING SUBSTRATES AND SUBSTRATES ARE SCHEDULED TO RECEIVE NEW FINISHES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING ADHESIVES, ATTACHMENTS, FASTENERS AND OTHER COATINGS THAT WILL INTERFERE WITH THE INSTALLATION OR ADHESION OF NEW FINISHES. THE CONTRACTOR SHALL PREPARE ALL EXISTING SURFACES TO PROVIDE SUBSTRATES THAT ARE ACCEPTABLE FOR THE NEW FINISH INSTALLER. AT EXISTING CONCRETE FLOOR SLABS WHERE SLAB IS DAMAGED DUE TO THE REMOVAL OF EXISTING FINISHES, THE CONTRACTOR SHALL PATCH ALL DAMAGE OF THE EXISTING SLAB WITH CONCRETE TOPPING TO PROVIDE A SMOOTH AND EVEN SUBSTRATE FOR NEW FINISHES.

F. SEE MECHANICAL/ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR WORK THAT REQUIRES ADDITIONAL DEMOLITION AND PATCHING. PROVIDE ALL DEMOLITION AS REQUIRED TO PERFORM THE SCHEDULED WORK AND REINSTALL ALL EXISTING CONSTRUCTION AND FINISHES TO MATCH PREVIOUS CONDITIONS WHERE POSSIBLE. IF NOT POSSIBLE, PATCH IN NEW CONSTRUCTION TO MATCH EXISTING CONDITIONS.

G. PATCH ALL EXISTING AND NEW PENETRATIONS THROUGH EXISTING FIRE OR SMOKE RATED FLOOR SLABS AND PARTITIONS, USING U.L. LISTED MATERIALS THAT ARE REQUIRED TO MAINTAIN ALL EXISTING FIRE RATINGS.

H. SEE ALSO REFLECTED CEILING PLANS FOR ADDITIONAL REMOVAL AND REINSTALLATION OF EXISTING SUSPENDED ACOUSTICAL CEILINGS AS REQUIRED FOR NEW CONSTRUCTION.

I. WHERE EXISTING CEILINGS ARE SHOWN TO BE REMOVED AND REINSTALLED, SALVAGE ALL FIRE ALARM AND NOTIFICATION DEVICES, INCLUDING SMOKE DETECTORS, STROBES, ALARMS, ETC. CONTRACTOR MAY REINSTALL THOSE DEVICES THAT ARE FULLY FUNCTIONAL. IF IT IS NOT POSSIBLE TO REINSTALL EXISTING SYSTEM COMPONENTS, THE CONTRACTOR SHALL PROVIDE NEW MATCHING DEVICES THAT ARE COMPATIBLE AND WARRANTABLE WITH THE EXISTING SYSTEM WHICH SHALL PROVIDE A FULLY FUNCTIONAL, CODE-COMPLIANT FIRE DETECTION/ NOTIFICATION SYSTEM.

J. PATCHING: WHERE DEMOLITION OR CUTTING WORK HAS OCCURRED OR WHERE EXISTING CONSTRUCTION HAS BEEN REMOVED, DAMAGED OR DISTURBED AS A PART OF THIS WORK, THE SAID SURFACES SHALL BE CLOSED UP, PATCHED, FINISHED AND RESTORED AS REQUIRED TO MATCH CONTIGUOUS SURFACES AND FINISHES.

K. PROTECTION OF EXISTING CONSTRUCTION: ALL CONSTRUCTION INDICATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL RETURN ALL EXISTING CONSTRUCTION TO THE CONDITION FOUND PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION, WHETHER OR NOT IT IS SPECIFICALLY INDENTIFIED ON THE DRAWINGS TO REMAIN. UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL SUCH DAMAGED ITEMS AT THE OWNER'S DISCRETION

L. SALVAGE: BEFORE COMMENCING ANY DEMOLITION WORK, THE CONTRACTOR SHALL CONTACT THE OWNER TO CONFIRM THEIR INTENT REGARDING THE SALVAGE, REUSE AND FINAL DISPOSITION OF ANY EXISTING ITEMS OF EQUIPMENT OR MATERIAL NOT USED IN THIS PROJECT, INCLUDING ALL WALL & CEILING MOUNTED EQUIPMENT (WHITEBOARDS, HEADWALL UNITS, CAMERAS, ETC.)

M. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND IDENTIFYING EXISTING UTILITY LINES PRIOR TO BEGINNING DEMOLITION. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DOCUMENTS FOR PROTECTION AND PATCHING OF EXISTING UTILITIES

N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING PIPING, CONDUIT AND OTHER UTILITY LINES, AND THEIR HANGERS OR SUPPORTS WHICH ARE ABANDONED BY THE WORK DESCRIBED IN THESE DOCUMENTS OR THOSE THAT HAVE BEEN PREVIOUSLY ABANDONED AND LEFT IN PLACE, LOCATED IN ALL CONSTRUCTION AREAS, UNLESS NOTED OTHERWISE. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR EXTENT OF REMOVAL AND THE CAPPING OFF OR TERMINATION OF EXISTING LINES

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HAY|DOBBS
ARCHITECTURE
URBAN DESIGN
PLANNING
INTERIORS
WWW.HAYDOBBS.COM
Midtown Commons
2324 University Ave. W.
Suite 200
St. Paul, MN 55114
Tel. 651.330.4040

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY
Project Number: 23008.003
Date: 10/01/2024

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LICENSE NO.

10/01/2024
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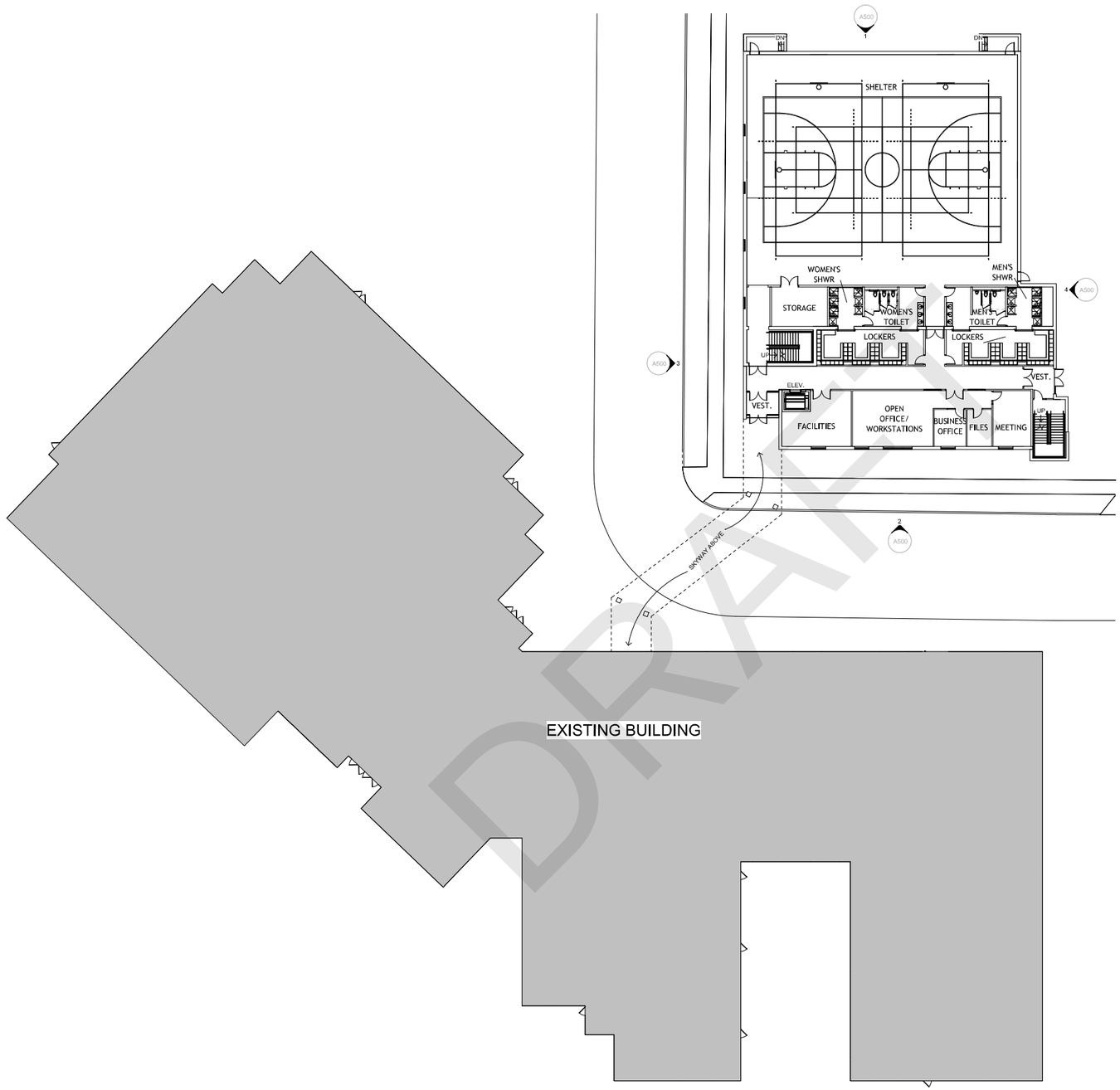
PRELIMINARY Not For Construction

SHEET TITLE:
SELECTIVE DEMOLITION PLANS

SHEET NUMBER:

A200

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1 LEVEL 1 OVERALL
1/16" = 1'-0"

N
PROJECT
TRUE

GENERAL PLAN NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS.
B. ALL WORK DESCRIBED HEREIN SHALL BE EXECUTED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES AND PUBLIC AUTHORITIES HAVING JURISDICTION
C. AREAS SHOWN HATCHED ARE EXISTING BUILDING AREAS OUTSIDE THE CONSTRUCTION LIMITS. NO WORK IN THESE AREAS UNLESS NOTED OTHERWISE. SEE MECHANICAL/ELECTRICAL DRAWINGS FOR ADDITIONAL WORK THAT MAY OCCUR OUTSIDE THE CONSTRUCTION LIMITS SHOWN, EITHER AS SHOWN ON DRAWINGS OR THROUGH EXTRAPOLATION OF EXISTING UTILITY LINES SERVING AREAS WITHIN THE CONSTRUCTION LIMITS.
D. ALL FRAMING DIMENSIONS ARE TAKEN TO FINISH FACE OF EXISTING CONSTRUCTION OR THE FACE OF FRAMING FOR NEW CONSTRUCTION UNLESS NOTED OTHERWISE.
E. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER GRAPHIC SCALE. DO NOT SCALE THE DRAWINGS.
F. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL FIELD CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
G. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO COMMENCING WORK.
H. THE CONTRACTOR SHALL LOCATE EXISTING BUILDING UTILITIES AND SERVICES PRIOR TO THE START OF CONSTRUCTION
I. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS IN THE DRAWINGS THAT ARE BASED ON FIELD MEASURING/OBSERVATION OF THE EXISTING CONSTRUCTION.
J. ALL WALLS SHADED ARE EXISTING CONSTRUCTION SCHEDULED TO REMAIN, PROTECT FROM DAMAGE FROM CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE.
K. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF NEW PENETRATIONS THROUGH EXISTING BEARING WALLS FOR DUCTWORK AND OTHER MECHANICAL/ ELECTRICAL RUNS. DO NOT CUT EXISTING BEAMS OR PURLINS. ADJUST LOCATIONS AS REQUIRED TO MISS EXISTING STRUCTURAL MEMBERS. IF IT IS NOT POSSIBLE TO MISS EXISTING STRUCTURAL MEMBERS, CONTACT THE ARCHITECT WHO WILL CONSULT WITH THE STRUCTURAL ENGINEER TO DETERMINE ACCEPTABLE LOCATIONS TO PENETRATE STRUCTURAL MEMBERS AND ADDITIONAL STRUCTURAL REINFORCEMENT OF EXISTING MEMBERS THAT MAY BE REQUIRED BY THE PENETRATION.
L. NEW PARTITIONS SHALL BE TYPE: 1A PARTITIONS UNLESS OTHERWISE NOTED.
M. WHERE NEW PARTITIONS ARE CONTINUOUS WITH EXISTING PARTITIONS, FINISH FACE OF NEW PARTITIONS SHALL ALIGN WITH EXISTING FINISH FACE UNLESS OTHERWISE NOTED
N. THIS PLAN AS DESIGNED COMPLIES WITH ADA REQUIREMENTS. MINOR FIELD ADJUSTMENTS TO DIMENSIONS MAY AFFECT REQUIRED CLEARANCES. DIMENSIONAL ADJUSTMENTS WITHIN INDUSTRY TOLERANCES MAY NOT BE ACCEPTABLE. ADJUSTMENTS AFFECTING DOOR CLEARANCES, WITHIN TOILET ROOMS AND UNDER COUNTER CASEWORK AREAS ARE OF PARTICULAR IMPORTANCE AND SHALL BE DISCUSSED WITH THE ARCHITECT PRIOR TO PROCEEDING.
O. SEE CODE PLANS FOR LOCATION OF WALLS OF FIRE-RESISTIVE AND SMOKE BARRIER CONSTRUCTION. ALL PARTITIONS CONSISTING OF SUCH ASSEMBLIES SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ASSEMBLIES. COORDINATE WITH MECHANICAL AND PLUMBING. ALL NEW AND EXISTING PIPED PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH FIRE-RATED SEALANTS OR FIRE-SAFING AS REQUIRED TO MAINTAIN EXISTING RATINGS AND SMOKE STOPPAGE. CONTRACTOR CREATING PENETRATION WILL BE RESPONSIBLE FOR PROVIDING FIRE SEAL OF OPENING. SEE MECHANICAL PLANS FOR LOCATIONS OF REQUIRED FIRE DAMPERS.
P. AT RATED PARTITIONS THAT EXTEND ABOVE ACCESSIBLE FINISHED CEILINGS, PROVIDE SIGNAGE OR PAINTED STENCILING IDENTIFYING PARTITION WITH THE WORDING "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS". LETTERING SHALL BE A MINIMUM HEIGHT OF 3" WITH A MINIMUM 3/8" STROKE IN A CONTRASTING COLOR. SIGNAGE SHALL BE LOCATED AT INTERVALS NOT EXCEEDING 30 FEET AND WITH 15 FEET OF THE END OF EACH WALL.
Q. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL ALL GAPS BETWEEN TOP OF WALL AND DECK ABOVE WITH FIRE SAFING INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
R. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS OR NOTED IN SPECIFICATIONS.
S. SCRIBE GYPSUM BOARD OF WALL AND PARTITIONS TO PROFILES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS WITH ACOUSTIC CAULK OR FIRE-RATED CAULK AT RATED PATITIONS
T. PROVIDE SOUND ATTENUATION BLANKETS IN ALL WALLS OF OFFICES, CLASSROOMS, ETC, AND AS INDICATED BY PARTITION TYPE
U. CONTRACTOR TO COORDINATE AND PROVIDE WOOD BLOCKING IN WALLS FOR ALL WALL MOUNTED EQUIPMENT, CASEWORK, SHELVING, AND CABINETRY. CONTRACTOR SHALL ALSO PROVIDE BLOCKING TO ACCOMMODATE ANY OWNER PROVIDED EQUIPMENT, AND SHALL COORDINATE INSTALLATION LOCATION DIRECTLY WITH OWNER.

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NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY
Project Number: 23008.003
Date: 10/01/2024

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PRINT NAME

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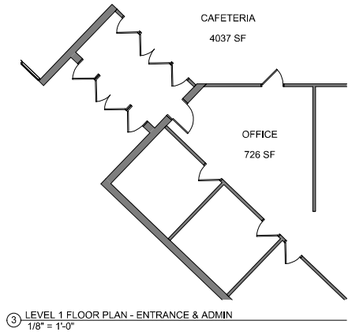
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SHEET TITLE:
FIRST FLOOR PLAN - OVERALL

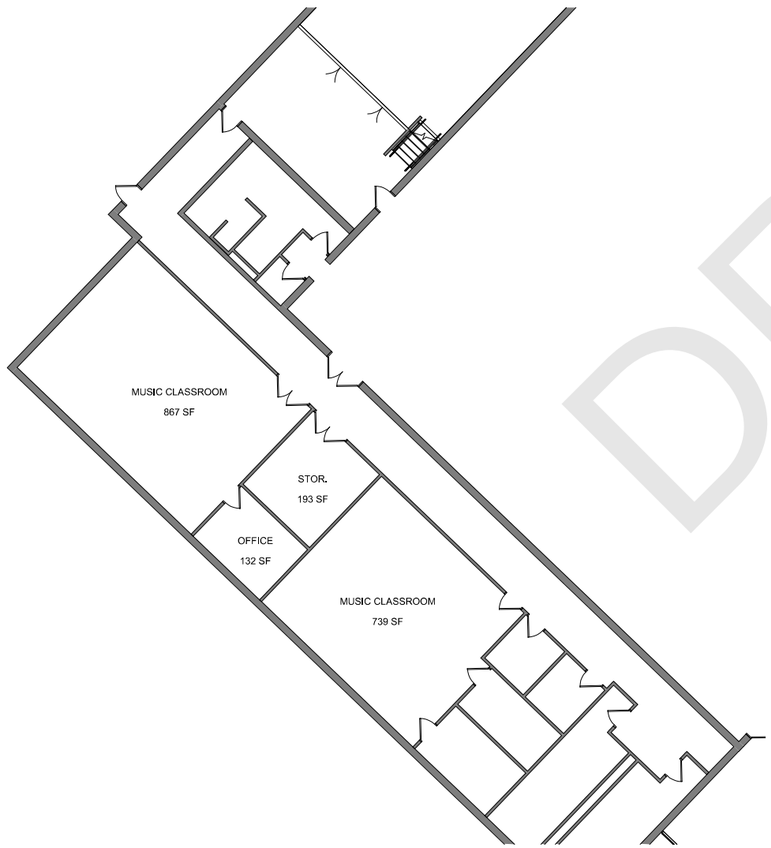
SHEET NUMBER:
A210

DRAFT

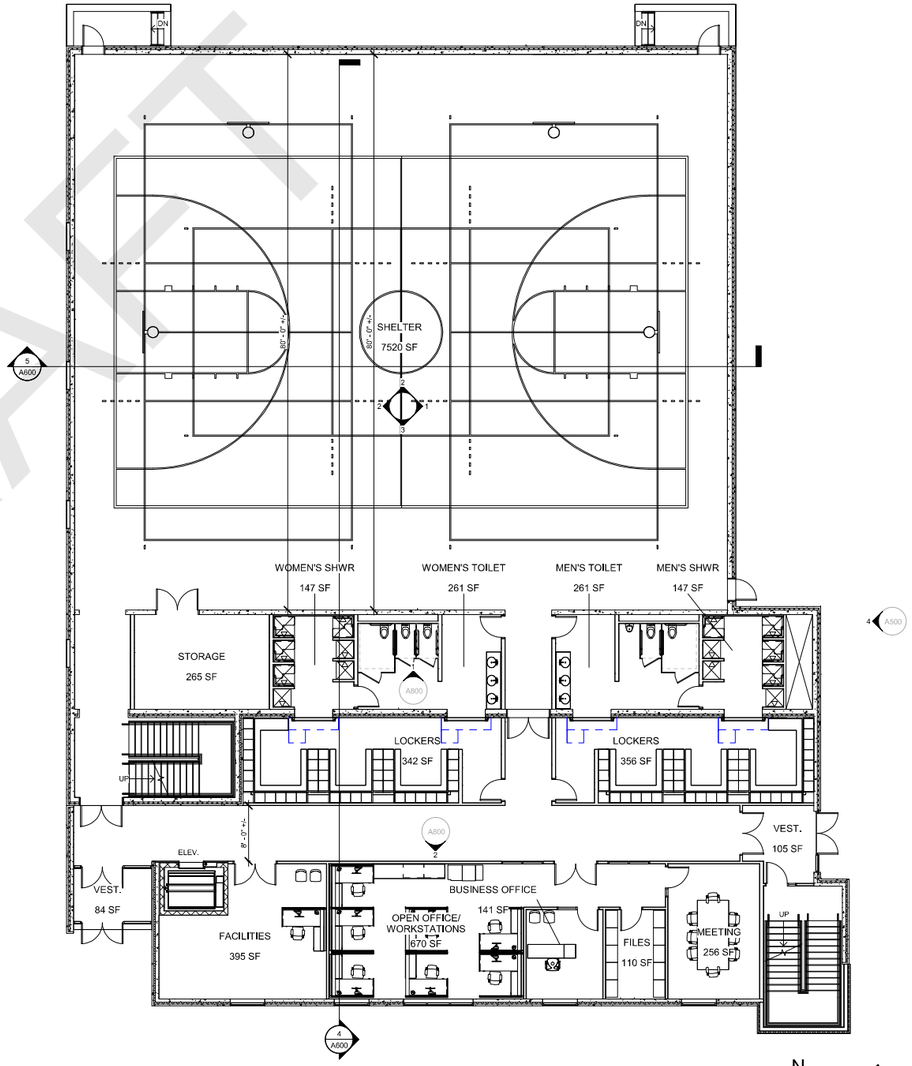
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3 LEVEL 1 FLOOR PLAN - ENTRANCE & ADMIN
1/8" = 1'-0"



2 LEVEL 1 FLOOR PLAN - MUSIC ROOMS
1/8" = 1'-0"



1 LEVEL 1 FLOOR PLAN - SHELTER
1/8" = 1'-0"

PROJECT TRUE

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1455 VICTORIA WAY

CONSULTANT

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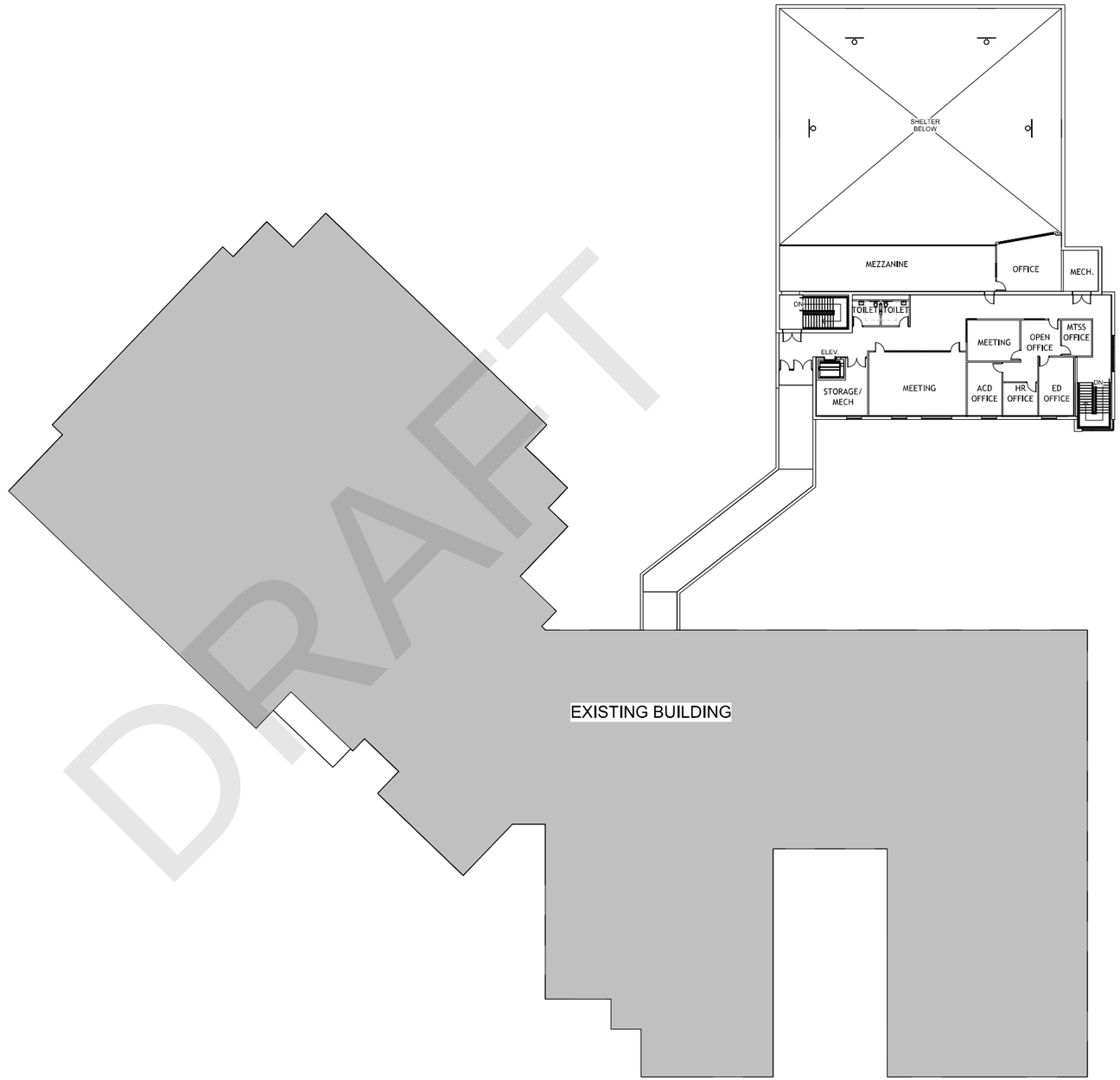
10/01/2024
DATE

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SHEET TITLE:
FIRST FLOOR PLAN - SHELTER

SHEET NUMBER:
A210A

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1 LEVEL 2 OVERALL
1/16" = 1'-0"

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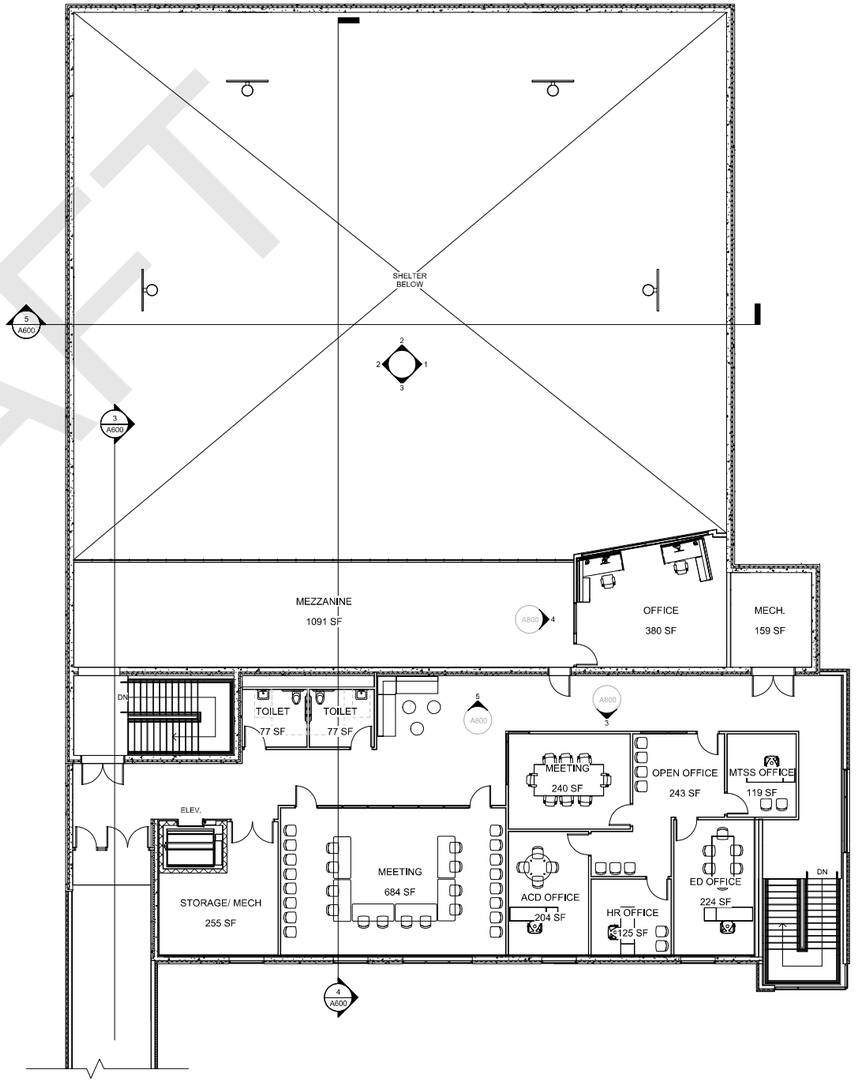
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SHEET TITLE:
SECOND FLOOR PLAN - OVERALL

SHEET NUMBER:

A211

2 LEVEL 2 - MEZZANINE
1/8" = 1'-0"



1 LEVEL 2 - SHELTER
1/8" = 1'-0"

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1455 VICTORIA WAY

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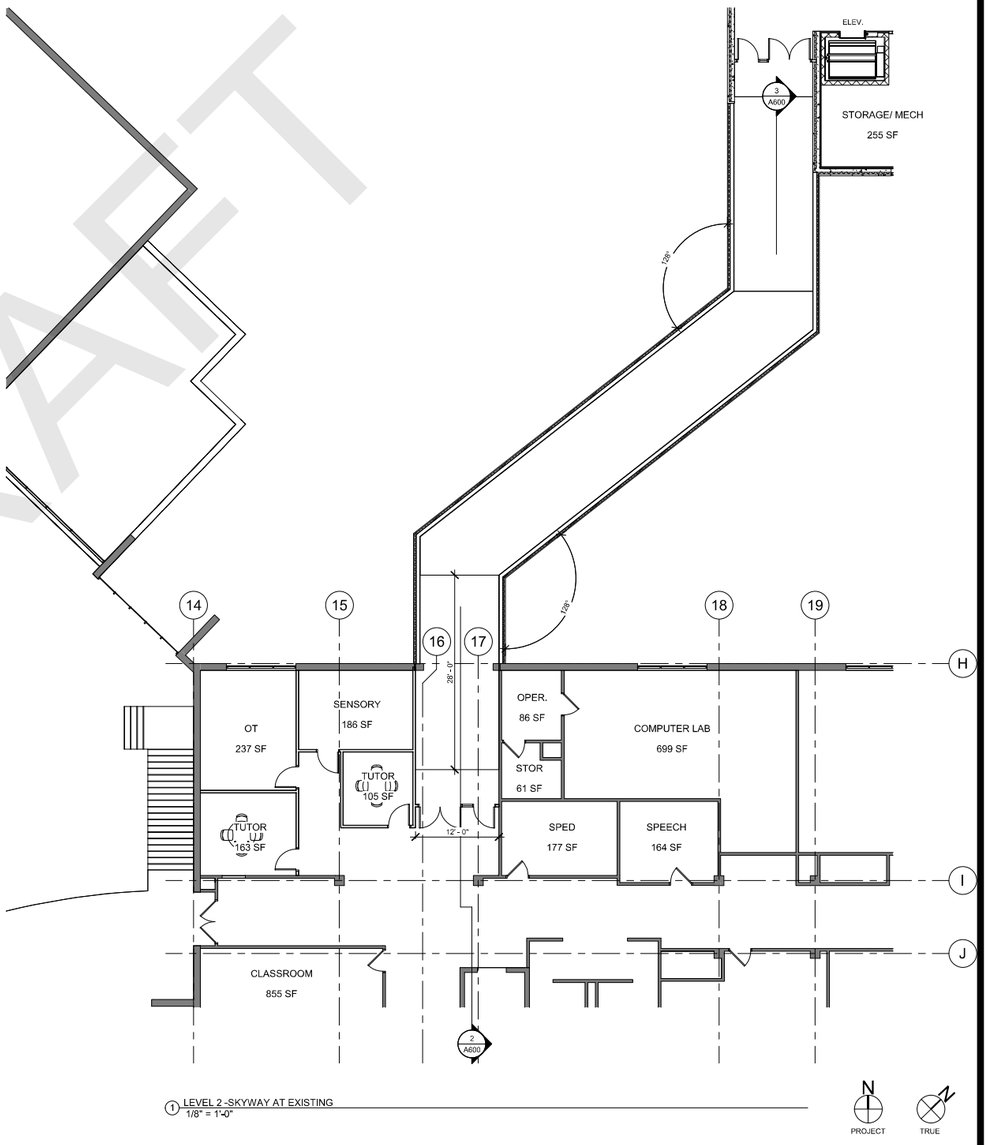
PRELIMINARY
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SHEET TITLE:
SECOND FLOOR PLAN - SHELTER

SHEET NUMBER:

A211A

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1 LEVEL 2 -SKYWAY AT EXISTING
1/8" = 1'-0"

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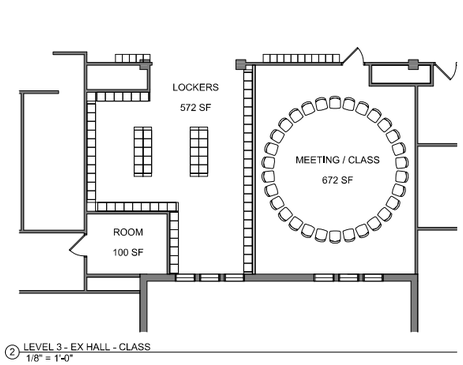
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SHEET TITLE:
SECOND FLOOR PLAN - SKYWAY AND SKYWAY AT EXSITING

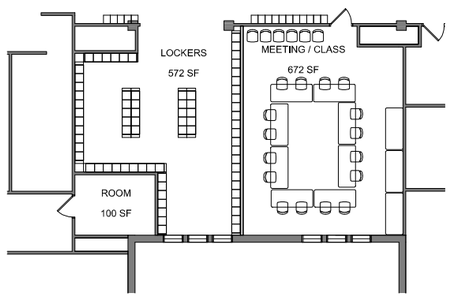
SHEET NUMBER:

A211B

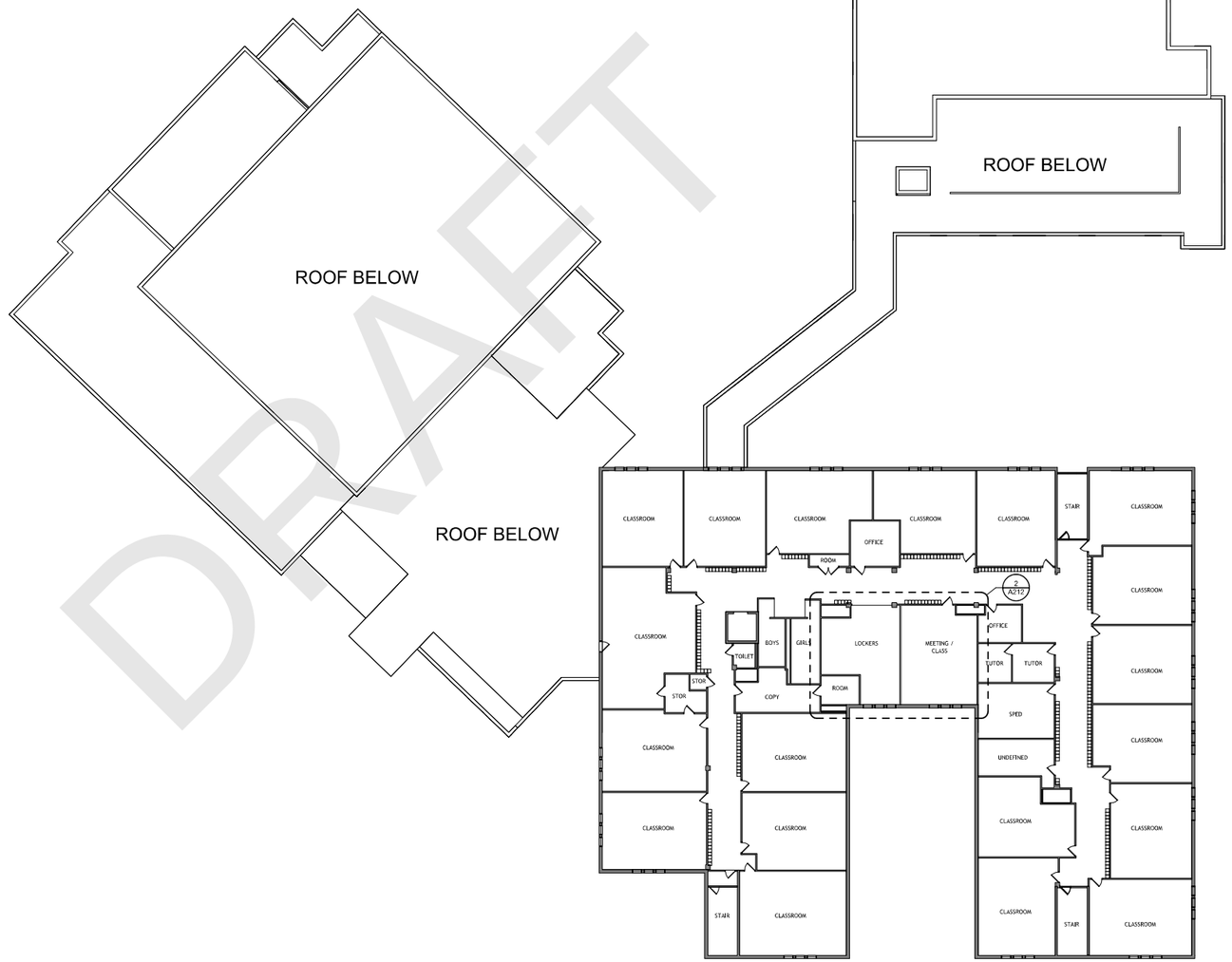
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2 LEVEL 3 - EX HALL - CLASS
1/8" = 1'-0"



3 LEVEL 3 - EX HALL - MEETING
1/8" = 1'-0"



1 LEVEL 3 OVERALL
1/16" = 1'-0"

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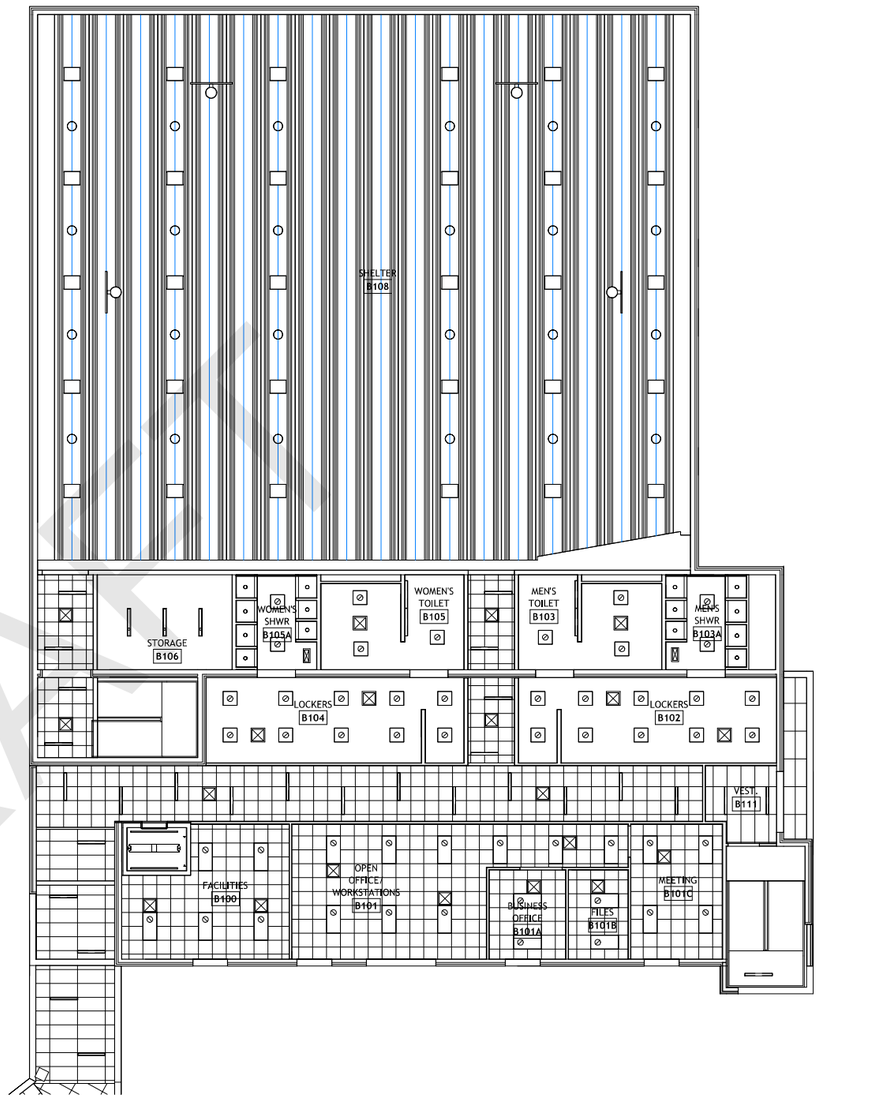
10/01/2024
DATE

PRELIMINARY Not For Construction

SHEET TITLE:
THIRD FLOOR OVERALL & EX HALL ENLARGEMENTS

SHEET NUMBER:

A212



1 LEVEL 1
1/8" = 1'-0"

N
PROJECT

N
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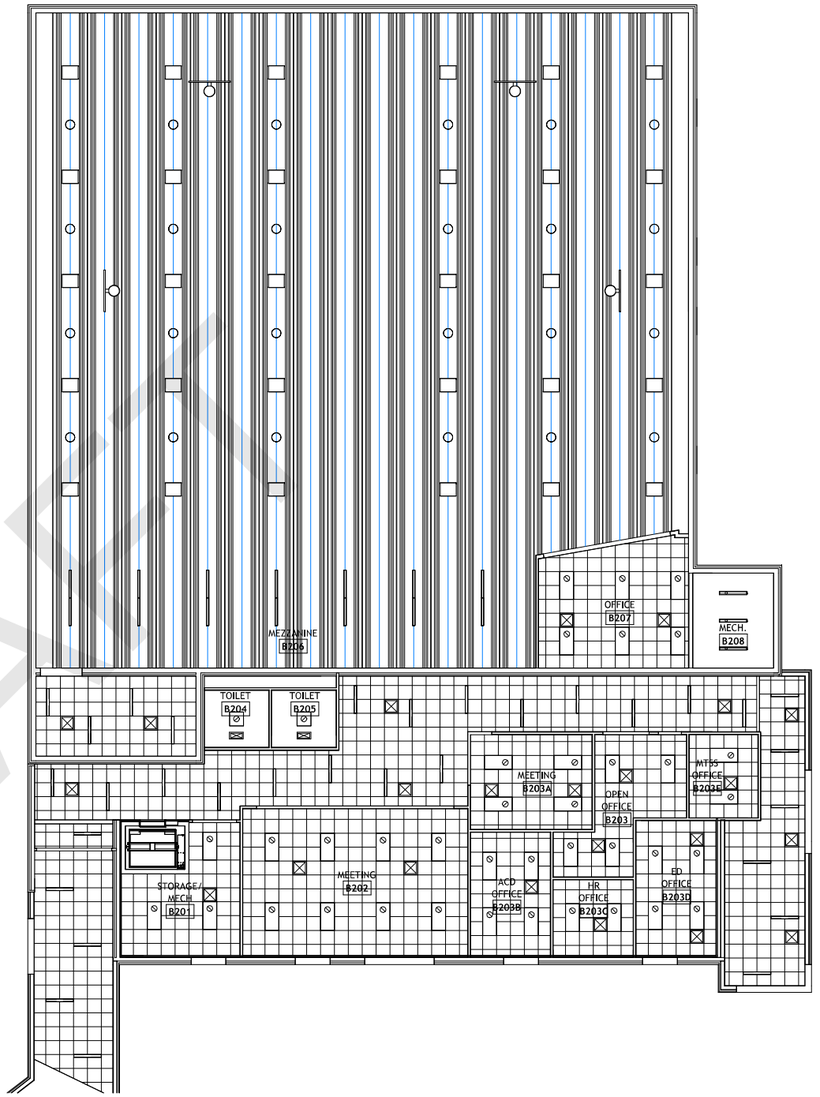
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SHEET TITLE:
FIRST FLOOR REFLECTED CEILING PLAN - SHELTER

SHEET NUMBER:

A220A

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1 LEVEL 2
1/8" = 1'-0"

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1455 VICTORIA WAY

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DATE

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Not For Construction

SHEET TITLE:
SECOND FLOOR REFLECTED CEILING PLAN - SHELTER
Copy 1

SHEET NUMBER:

A221A

OPENING SCHEDULE

OPENING NUMBER	OPENING SIZE		DOOR				FRAME			RATING	HARDWARE GROUPS	DETAILS			NOTES
	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH			HEAD	JAMB	SILL/THRESHOLD	
B1	3' - 0"	7' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B2	3' - 0"	7' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B3	3' - 0"	7' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B4	3' - 0"	7' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B100	3' - 0"	7' - 0"	1 3/4"	A	HM	PT	1	HM	PT	X					
B101	3' - 0"	7' - 0"	1 3/4"	A	HM	PT	1	HM	PT	X					
B101A	3' - 0"	8' - 0"	1 3/4"	A	WD	POLY	9	HM	PT	X					
B101B	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B101C	3' - 0"	8' - 0"	1 3/4"	A	WD	POLY	9	HM	PT	X					
B102A	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B103	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B103A	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B104A	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B105	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B105A	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B106	3' - 0"	7' - 0"	1 3/4"	A	HM	PT	1	HM	PT	X					
B107	3' - 0"	7' - 0"	1 3/4"	B	HM	PT	1	HM	PT	X					
B108A	3' - 0"	7' - 0"	1 3/4"	A	HM	POLY	1	HM	PT	X					
B108B	3' - 0"	7' - 0"	1 3/4"	A	HM	POLY	1	HM	PT	X					
B109A	6' - 0"	8' - 0"	1 3/4"	D	WD		SEE ELEV	HM			TBD				
B109B	6' - 0"	8' - 0"	1 3/4"	D	WD		SEE ELEV	HM			TBD				
B110	3' - 0"	7' - 0"	1 3/4"	B	HM	PT	1	HM	PT	X					
B111A	6' - 0"	8' - 0"	1 3/4"	D	WD		SEE ELEV	HM			TBD				
B111B	3' - 0"	7' - 0"	1 3/4"	D	WD	POLY	1	PT	HM	X					
B111C	3' - 0"	8' - 0"	1 3/4"	A	WD	POLY	9	HM	PT	X					
B201	3' - 0"	8' - 0"	1 3/4"	B	HM	PT	1	HM	PT	X					
B202A	3' - 0"	8' - 0"	1 3/4"	A	WD		SEE ELEV	HM			TBD				
B202B	3' - 0"	8' - 0"	1 3/4"	A	WD		SEE ELEV	HM			TBD				
B203	3' - 0"	8' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B203A	3' - 0"	7' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B203B	3' - 0"	7' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B203C	3' - 0"	7' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B203D	3' - 0"	7' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B203E	3' - 0"	7' - 0"	1 3/4"	B	WD	POLY	1	HM	PT	X					
B204	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B205	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B206	3' - 0"	7' - 0"	1 3/4"	B	HM	PT	1	HM	PT	X					
B207	3' - 0"	7' - 0"	1 3/4"	A	WD	POLY	1	HM	PT	X					
B208	3' - 0"	7' - 0"	1 3/4"	A	HM	PT	1	HM	PT	X					
B209A	3' - 0"	8' - 0"	1 3/4"	C	WD	POLY	1	HM	PT	X					
B209B	3' - 0"	8' - 0"	1 3/4"	C	WD		4	HM		X	12				
B209C	3' - 0"	7' - 0"	1 3/4"	B	HM	PT	1	HM	PT	X					

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL FINISH	NORTH WALL SUBSTRATE	EAST WALL FINISH	EAST WALL SUBSTRATE	SOUTH WALL FINISH	SOUTH WALL SUBSTRATE	WEST WALL FINISH	WEST WALL SUBSTRATE	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT
B1	OT													
B2	TUTOR													
B3	SENSORY													
B4	TUTOR													
B5	Room													
B100	FACILITIES													
B101	OPEN OFFICE/ WORKSTATIONS													
B101A	BUSINESS OFFICE													
B101B	FILES													
B101C	MEETING													
B102	LOCKERS													
B103	MEN'S TOILET													
B103A	MEN'S SHWR													
B104	LOCKERS													
B105	WOMEN'S TOILET													
B105A	WOMEN'S SHWR													
B106	STORAGE													
B107	Room													
B108	SHELTER													
B109	VEST.													
B110	Room													
B111	VEST.													
B201	STORAGE/ MECH													
B202	MEETING													
B203	OPEN OFFICE													
B203A	MEETING													
B203B	ACD OFFICE													
B203C	HR OFFICE													
B203D	ED OFFICE													
B203E	MTSS OFFICE													
B204	TOILET													
B205	TOILET													
B206	MEZZANINE													
B207	OFFICE													
B208	MECH.													
B209	Room													

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Tel. 651.330.4040

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY
Project Number: 23008.003
Date: 10/01/2024

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PRINT NAME

SIGNATURE

LICENSE NO.

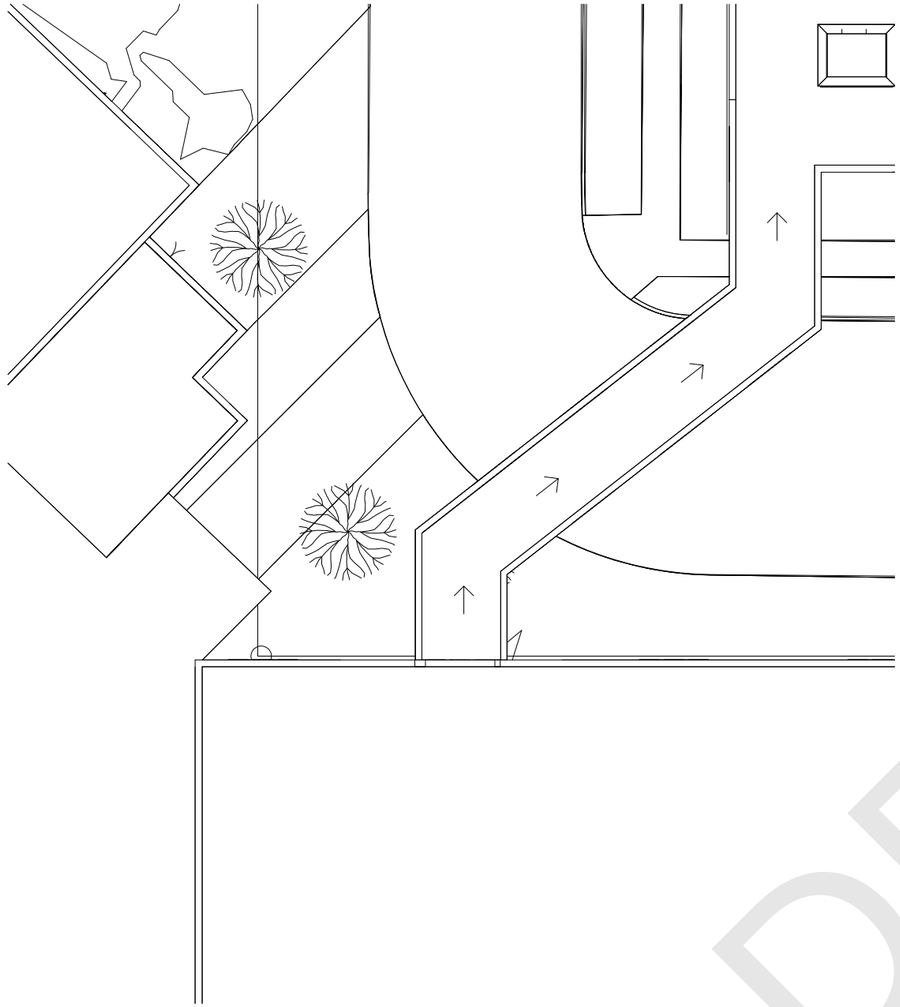
10/01/2024
DATE

PRELIMINARY Not For Construction

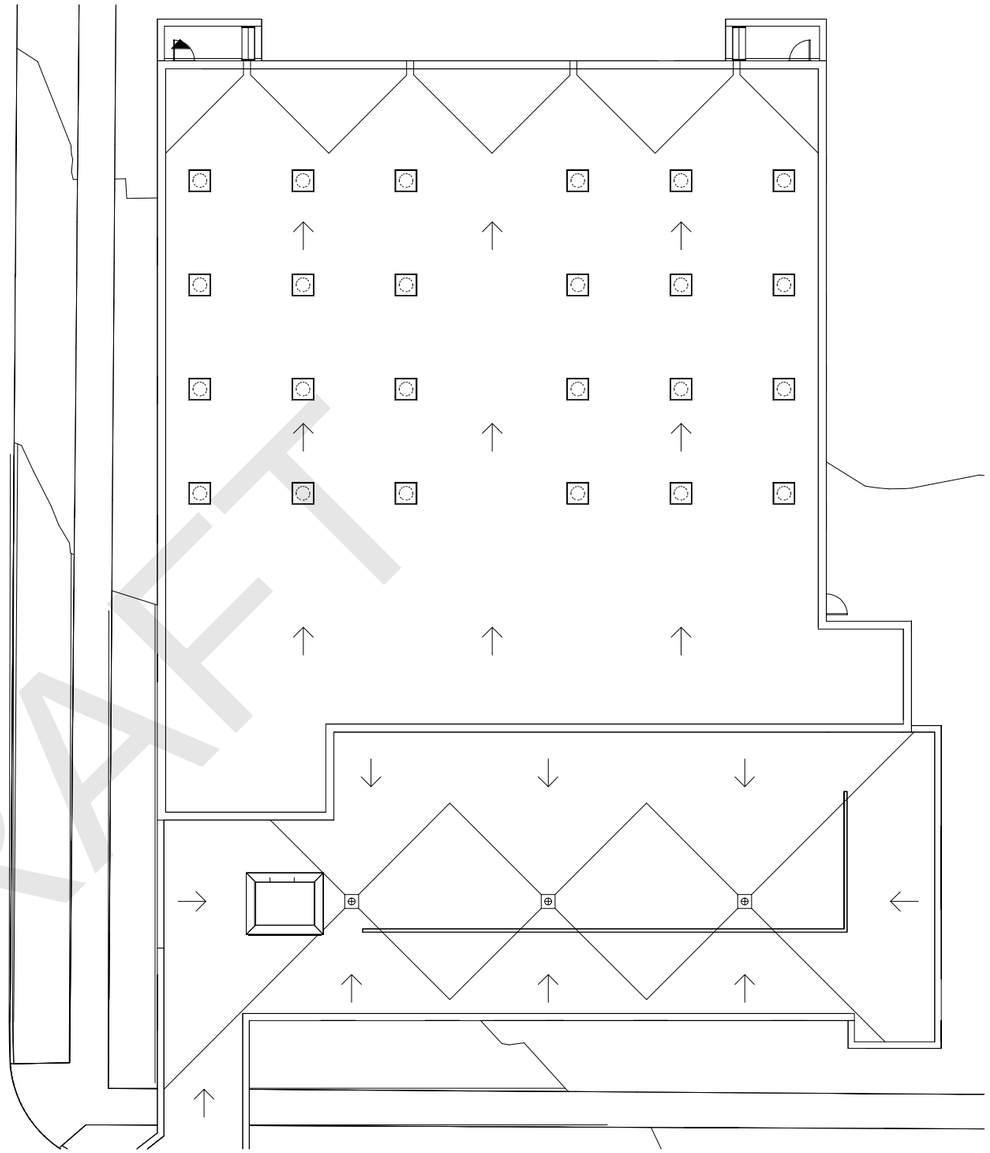
SHEET TITLE:
OPENING & FINISH SCHEDULE

SHEET NUMBER:

A300



2 ROOF PLAN SKYWAY
1/8" = 1'-0"



1 ROOF PLAN SHELTER
1/8" = 1'-0"

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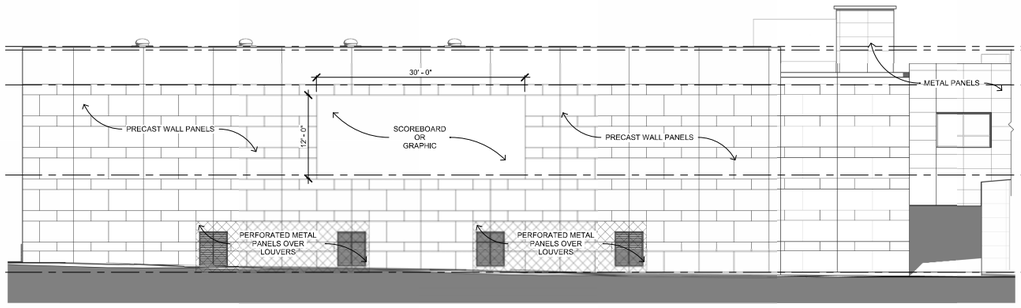
10/01/2024
DATE

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Not For Construction

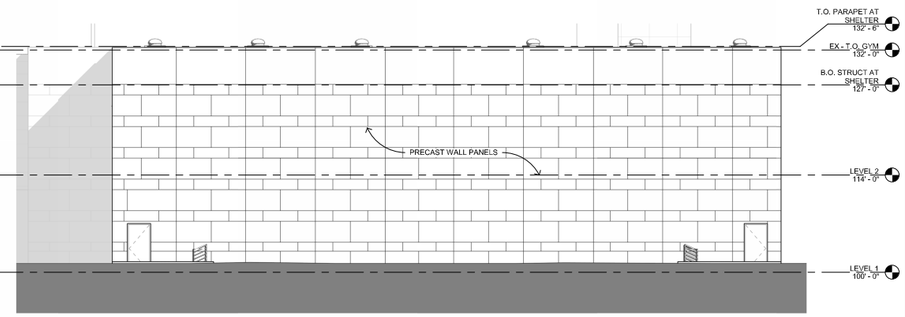
SHEET TITLE:
ROOF PLAN - SHELTER

SHEET NUMBER:

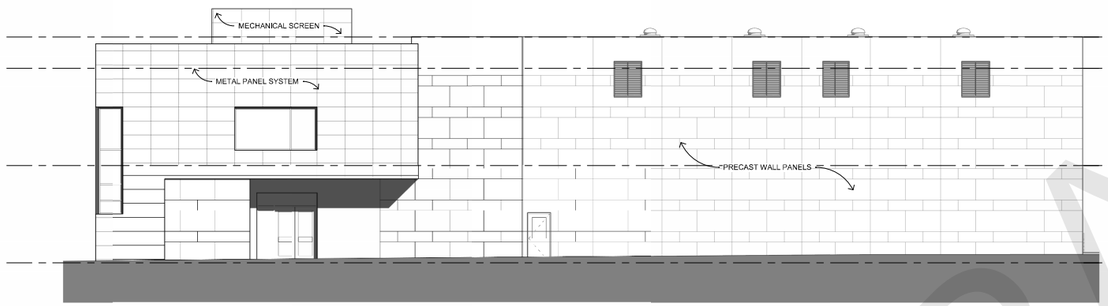
A400



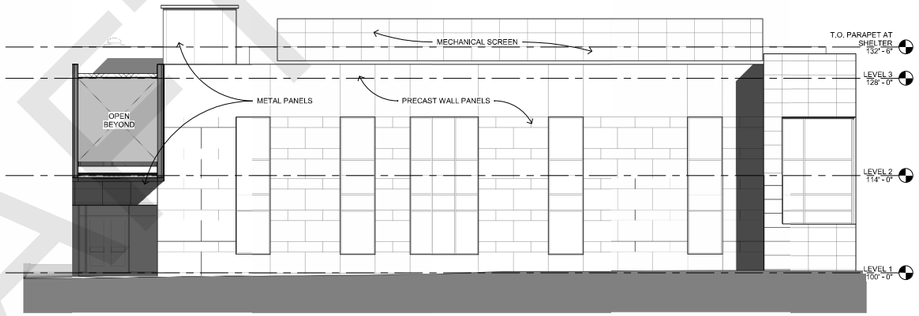
3 SHELTER ELEVATION - SOUTH WEST
1/8" = 1'-0"



1 SHELTER ELEVATION - NORTH WEST
1/8" = 1'-0"



4 SHELTER ELEVATION - NORTH EAST
1/8" = 1'-0"



2 SHELTER ELEVATION - SOUTH EAST
1/8" = 1'-0"

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NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY
Project Number: 23008.003
Date: 10/01/2024

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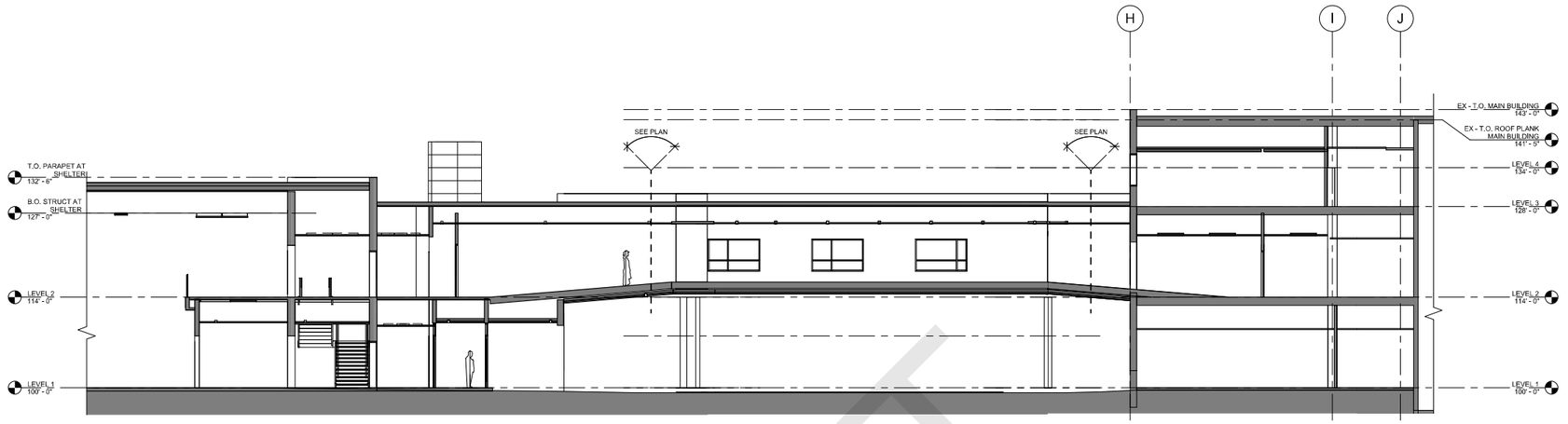
10/01/2024
DATE

PRELIMINARY Not For Construction

SHEET TITLE:
SHELTER BUILDING ELEVATIONS

SHEET NUMBER:

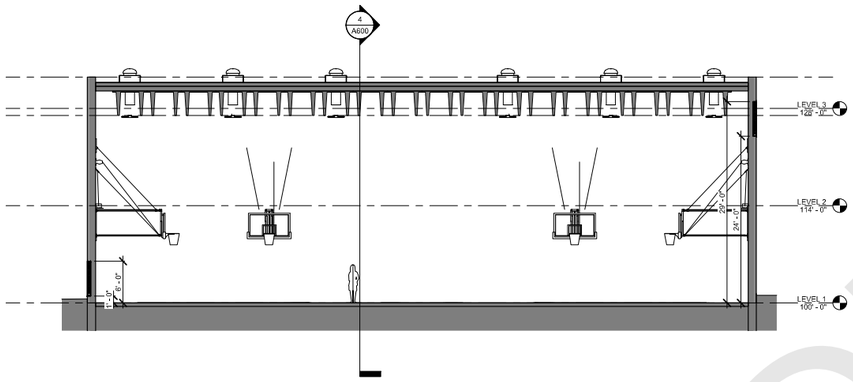
A500



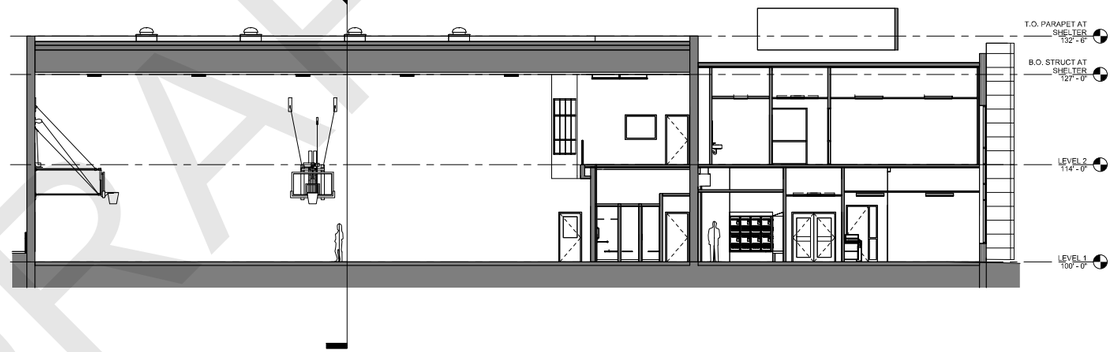
3 SKYWAY SECTION - AT NEW
1/8" = 1'-0"

1 SKYWAY SECTION - CENTER1
1/8" = 1'-0"

2 SKYWAY SECTION - AT EXISTING
1/8" = 1'-0"



5 EAST-WEST SECTION AT SHELTER
1/8" = 1'-0"



4 NORTH-SOUTH SECTION AT SHELTER
1/8" = 1'-0"

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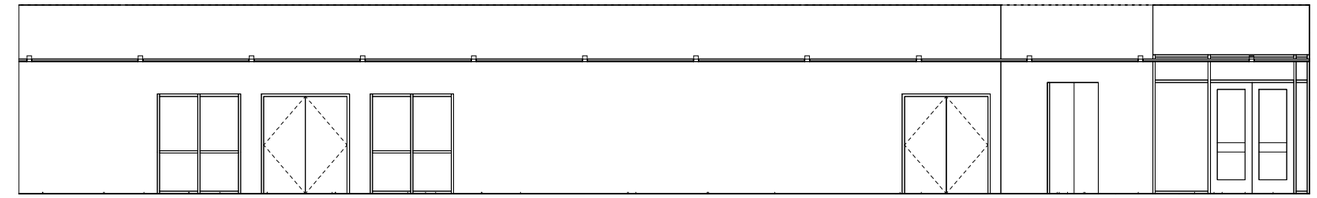
10/01/2024
DATE

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Not For Construction

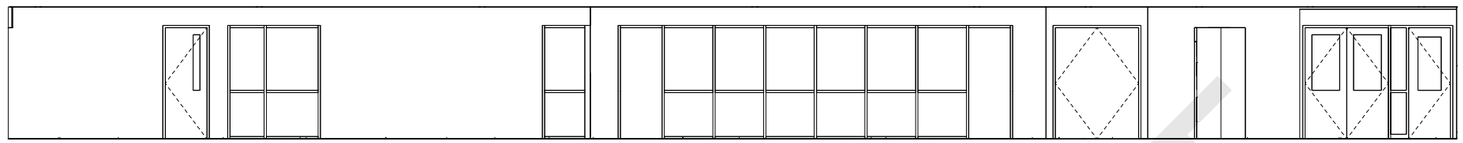
SHEET TITLE:
BUILDING SECTIONS

SHEET NUMBER:

A600



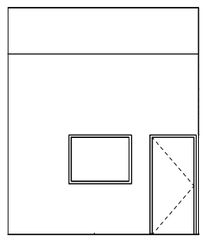
② LEVEL 1 HALLWAY SOUTH
1/4" = 1'-0"



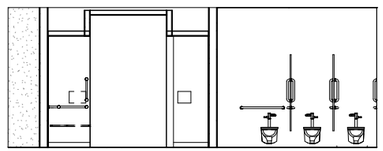
③ LEVEL 2 HALLWAY SOUTH
1/4" = 1'-0"



⑤ LEVEL 2 HALLWAY NORTH
1/4" = 1'-0"



④ LEVEL 2 MEZZANINE EAST
1/4" = 1'-0"



① LEVEL 1 BATHROOM
1/4" = 1'-0"

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NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY
Project Number: 23008.003
Date: 10/01/2024

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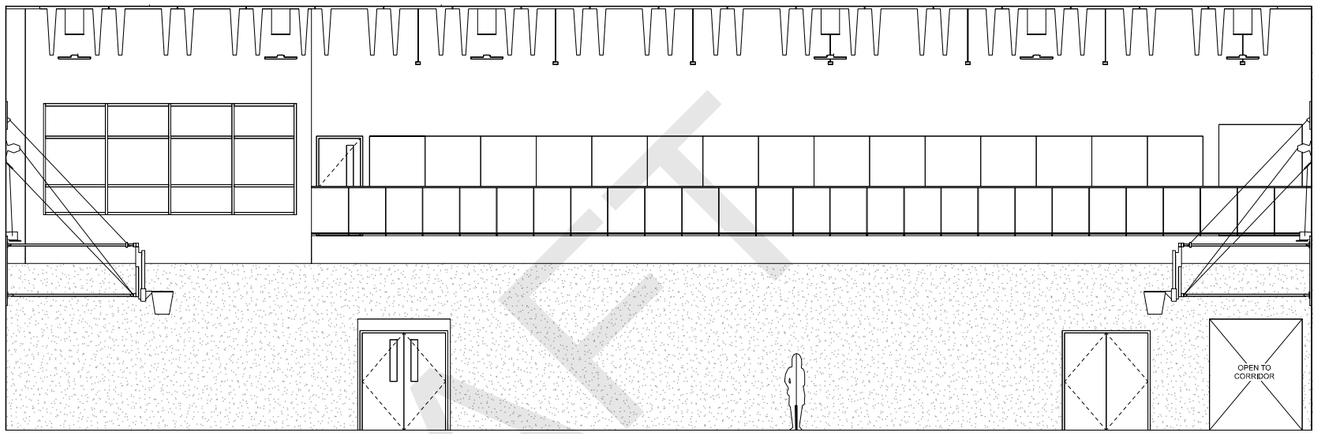
10/01/2024
DATE

PRELIMINARY
Not For Construction

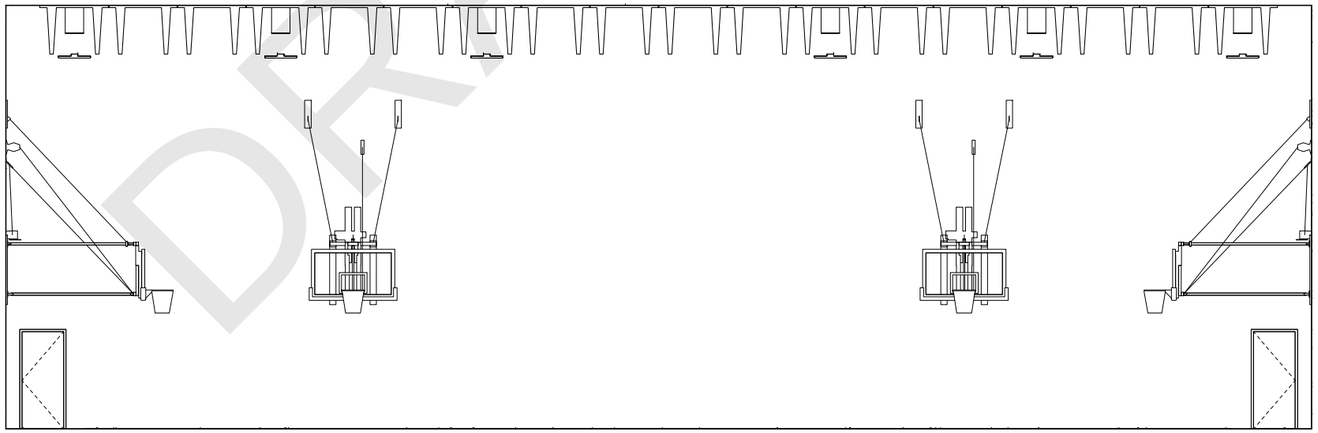
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:

A800



③ INTERIOR ELEVATION - SHELTER LOOKING SOUTH
1/4" = 1'-0"



② INTERIOR ELEVATION - SHELTER LOOKING NORTH
1/4" = 1'-0"

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10/01/2024
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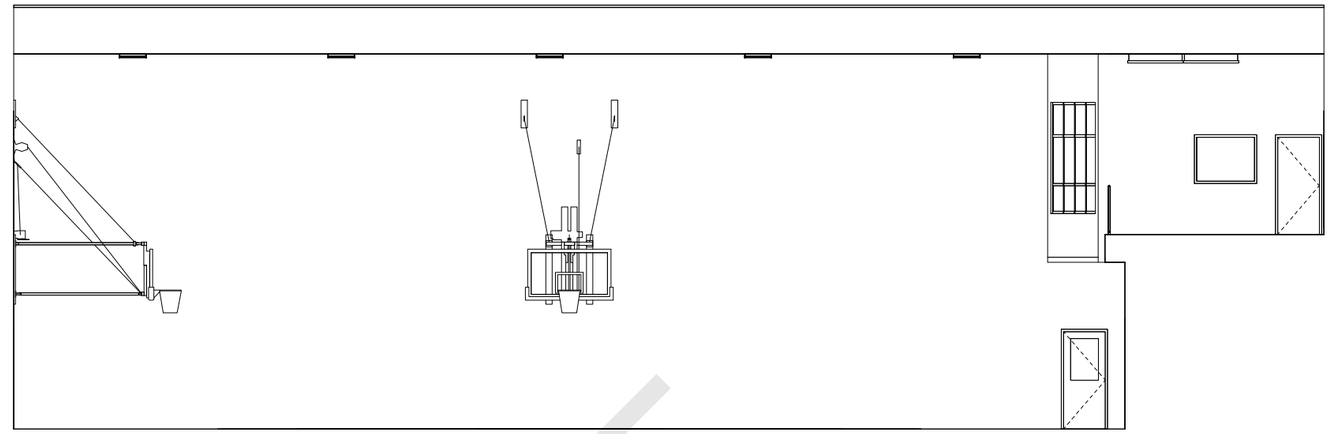
PRELIMINARY
Not For Construction

SHEET TITLE:
INTERIOR ELEVATIONS

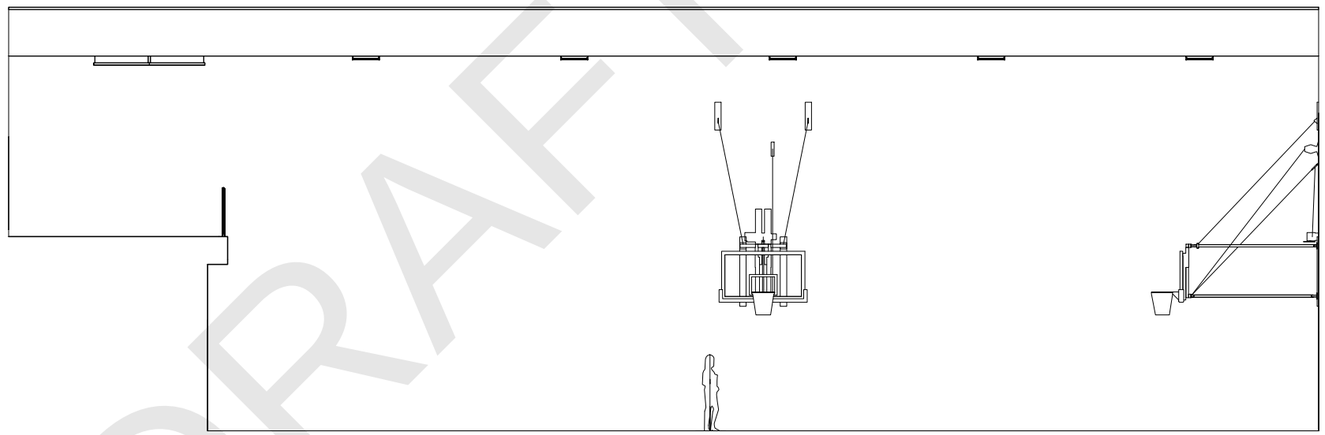
SHEET NUMBER:

A801

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1 INTERIOR ELEVATION - SHELTER LOOKING EAST
1/4" = 1'-0"



2 INTERIOR ELEVATION - SHELTER LOOKING WEST
1/4" = 1'-0"

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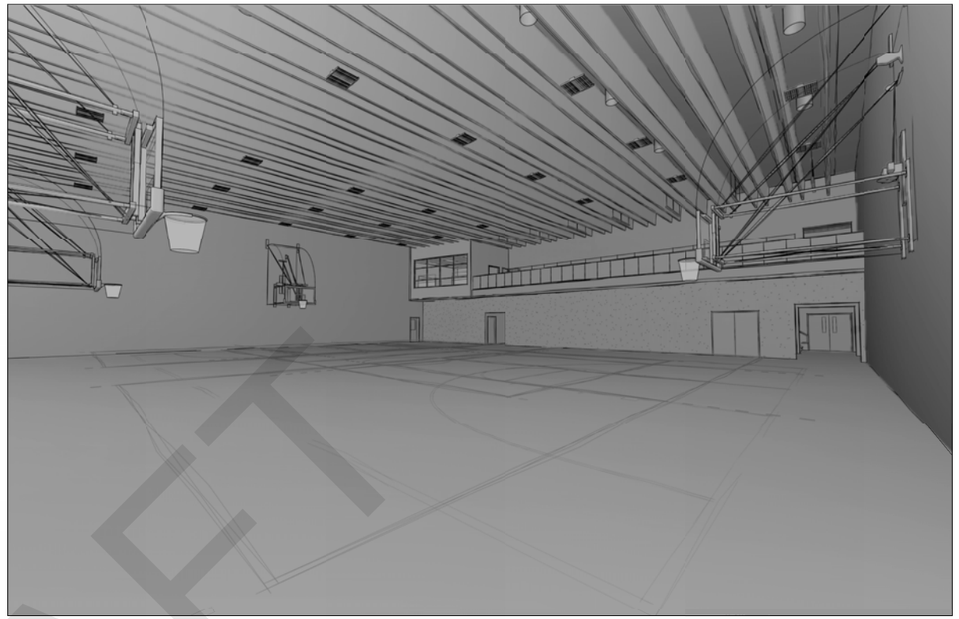
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INTERIOR ELEVATIONS

SHEET NUMBER:

A802



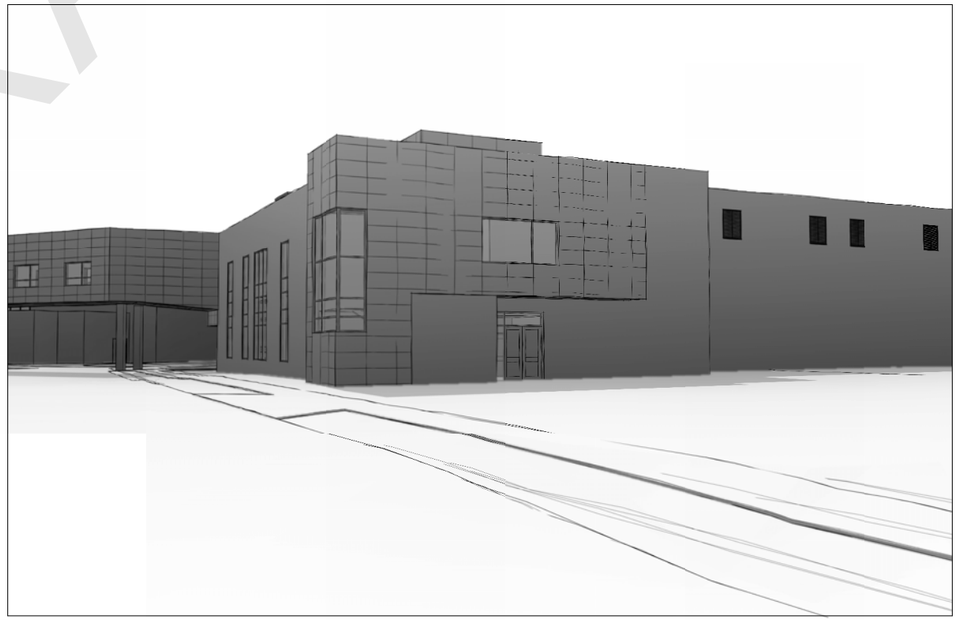
1 ILLUSTRATIVE VIEW OF SKYWAY



2 ILLUSTRATIVE VIEW OF GYM



3 ILLUSTRATIVE VIEW OF WEIGHT ROOM



4 ILLUSTRATIVE VIEW OF BUS PARKING ENTRANCE

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DATE

PRELIMINARY Not For Construction

SHEET TITLE:
ILLUSTRATIVE VIEWS

SHEET NUMBER:

SK01

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Appendix B

Solidified Lead and Chromium Soil Extent Map

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SOLIDIFIED SOIL ELEVATION

SOLIDIFIED SOIL ELEVATION (PERIMETER)

APPROXIMATE SOLIDIFIED SOIL AREA

APPROXIMATE PARCEL BOUNDARY

60' 0 120'

SCALE: 1"= 120'

F:\2016\B1608280.dwg,Lead Soil,9/14/2016 11:32:17 AM

BRAUN INTERTEC
The Science You Build On.
11001 Hampshire Avenue S
Minneapolis, MN 55438
PH. (952) 995-2000
FAX (952) 995-2020

Base Dwg Provided By:

LEAD SOIL SOLIDIFICATION AREA
PHASE I ENVIRONMENTAL SITE ASSESSMENT
FRIENDS OF NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY
ST. PAUL, MINNESOTA

Project No:	B1608280
Drawing No:	B1608280
Scale:	1"= 120'
Drawn By:	JAG
Date Drawn:	9/13/16
Checked By:	KWB
Last Modified:	9/14/16
Sheet: of	Fig:

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Appendix C

Well Sealing Record

BRAUN INTERTEC

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING SEALING RECORD

Minnesota Statutes, chapter 103 I

Minnesota Well and Boring Sealing No. H 415259
Minnesota Unique Well No. or W-series No. (Leave blank if not known)

WELL OR BORING LOCATION

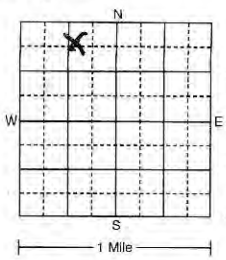
County Name: Ramsey

Township Name	Township No.	Range No.	Section No.	Fraction (sm. → lg.)
St. Paul	28	23	14	NW NE NW

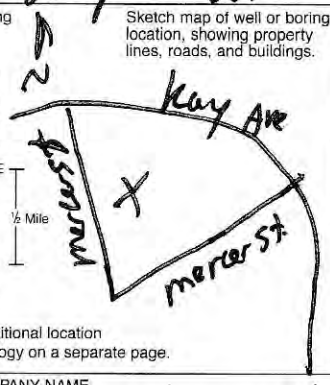
GPS LOCATION – decimal degrees (to four decimal places)
Latitude _____ Longitude _____

Numerical Street Address or Fire Number and City of Well or Boring Location: 0 Otto Ave, St. Paul 55102

Show exact location of well or boring in section grid with "X."



Sketch map of well or boring location, showing property lines, roads, and buildings.



For temporary borings, provide additional location information, a site sketch, and geology on a separate page.

PROPERTY OWNER'S NAME/COMPANY NAME: Friends of Nova Classical Academy

Property owner's mailing address if different than well location address indicated above: 1455 Victoria Way, St. Paul, MN 55102

WELL OWNER'S NAME/COMPANY NAME: Same

Well owner's mailing address if different than property owner's address indicated above: Same

GEOLOGICAL MATERIAL	COLOR	HARDNESS OR FORMATION	FROM	TO
If not known, indicate estimated formation log from nearby well or boring.				
Silty Sand	Brn	med	0	15

REMARKS, SOURCE OF DATA, DIFFICULTIES IN SEALING

MINN DEPT OF HEALTH COPY H 415259

Date Sealed: 10/29/24
Date Well or Boring Constructed: 10/29/24
Depth at Time of Sealing: 15 ft.
Original Depth: N/A ft.

AQUIFER(S): ☐ Single Aquifer ☐ Multiaquifer

WELL/BORING: ☐ Water-Supply Well ☑ Env. Well ☐ Temp. Boring ☐ Other

STATIC WATER LEVEL: ☑ Measured Date Measured _____ ☐ Estimated
10 ft. ☑ below ☐ above land surface

CASING TYPE(S): ☐ Steel ☐ Plastic ☐ Tile ☑ Other Temp Geoprobe

WELLHEAD COMPLETION

Outside: ☐ Pitless Adapter/Unit ☐ At Grade ☐ Well Pit ☐ Buried ☑ Other Temp Well Abard.

Inside: ☐ Basement Offset ☐ Well House ☐ Well Pit ☐ Buried ☐ Other

CASING(S)

Diameter	Depth	Set in oversize hole?	Annular space initially grouted?
2 in. from 0	to 10 ft.	☑ Yes ☐ No	☑ Yes ☐ No ☐ Unknown
in. from	to ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown
in. from	to ft.	☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown

SCREEN/OPEN HOLE: Screen from 10 to 15 ft. Open Hole from N/A to ft.

OBSTRUCTIONS: ☐ Rods/Drop Pipe ☐ Check Valve(s) ☐ Debris ☐ Fill ☑ No Obstruction
Type of Obstructions (Describe) _____
Obstructions removed? ☐ Yes ☐ No Describe _____

PUMP: ☑ Not Present ☐ Present, Removed Prior to Sealing ☐ Other
Type _____

METHOD USED TO SEAL ANNULAR SPACE BETWEEN 2 CASINGS, OR CASING AND BORE HOLE
☐ No Annular Space Exists ☑ Annular Space Grouted with Tremie Pipe ☐ Casing Perforation/Removal
Casing Diameter
in. from to ft. ☐ Perforated ☐ Removed
in. from to ft. ☐ Perforated ☐ Removed
Type of Perforator

VARIANCE: Was a variance granted from the MDH for this well? ☐ Yes ☑ No TN# _____

GROUTING MATERIAL(S)
Grouting Material Bentonite from 0 to 15 ft. yards 1/4 bags
from to ft. yards bags
from to ft. yards bags

OTHER WELLS AND BORINGS: Other unsealed and unused well or boring on property? ☐ Yes ☑ No How many? _____

LICENSED OR REGISTERED CONTRACTOR CERTIFICATION
This well or boring was sealed in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

Range Env. Drilling — Licensee Business Name
2622 — License or Registration No.
Todd Knudsen — Certified Representative Signature
1150 — Certified Rep. No.
2/25/25 — Date
Todd Knudsen — Name of Person Sealing Well or Boring

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Appendix D

Soil Boring Logs

BRAUN INTERTEC

BRAUN INTERTEC
The Science You Build On.

LOG OF HAND AUGER

Project Number B1608280.02
Environmental Investigation
Nova Classical Academy Building Addition
1455 Victoria Way
St Paul, Minnesota

HAND AUGER:	**HA-1**		
LOCATION:			
DATUM: WGS 84			
LATITUDE: 44.91844		LONGITUDE: -93.13755	
OPERATOR: B. Fedje	LOGGED BY: B. Fedje	START DATE: 10/29/24	END DATE: 10/29/24
SURFACE ELEVATION:	METHOD: Hand Auger	SURFACING: Grass/topsoil	WEATHER: Low 70s, sunny

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487)	Sample	PID ppm	Tests or Remarks
0.5		POORLY GRADED SAND with SILT (SP-SM), with Cobbles, organics (roots, plants, grass), brown, moist, no odor			
2.0		POORLY GRADED SAND (SP), medium to coarse-grained, with Cobbles, light brown, moist, no odor		0.4	
4.0		POORLY GRADED SAND with SILT (SP-SM), trace Cobbles, brown, moist, no odor *Refusal on Cobbles at 4 feet*		0.1	Soil sample HA-1 (3-4') @ 16:00 collected for DRO w/ Silica gel cleanup, VOCs, GRO, PAHs, 8 RCRA Metals, and Moisture
		END OF HAND AUGER Boring then backfilled with auger cuttings	5		

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LOG OF HAND AUGER

Project Number B1608280.02
Environmental Investigation
Nova Classical Academy Building Addition
1455 Victoria Way
St Paul, Minnesota

HAND AUGER:	**HA-2**		
LOCATION:			
DATUM: WGS 84			
LATITUDE: 44.91866		LONGITUDE: -93.13744	
OPERATOR: B. Fedje	LOGGED BY: B. Fedje	START DATE: 10/29/24	END DATE: 10/29/24
SURFACE ELEVATION:	METHOD: Hand Auger	SURFACING: Grass/topsoil	WEATHER: Low 70s, sunny

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487)	Sample	PID ppm	Tests or Remarks
0.5		POORLY GRADED SAND with SILT (SP-SM), with organics (plants, roots, grass), brown, moist, no odor			
		POORLY GRADED SAND (SP), medium to coarse-grained, with Cobbles, light brown, moist, no odor		0.3	Soil sample HA-2 (1-2') @ 16:30 collected for DRO w/ Silica gel cleanup, VOCs, GRO, PAHs, 8 RCRA Metals, and Moisture
2.0		*Refusal on Cobbles at 2 feet*			
		END OF HAND AUGER Boring then backfilled with auger cuttings			
5					

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LOG OF BORING

Environmental Boring Log - Not For Geotechnical Design

Project Number B1608280.02
Environmental Investigation
Nova Classical Academy Building Addition
1455 Victoria Way
St Paul, Minnesota

BORING: **TW-1**
LOCATION:
DATUM: WGS 84
LATITUDE: 44.91839 LONGITUDE: -93.13730
WEATHER: Low 70s, sunny

DRILLER: Range Environmental | LOGGED BY: B. Fedje
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push
START DATE: 10/29/24 | END DATE: 10/29/24 | SURFACING: Grass/topsoil

During Drilling 9.0 ft
After Drilling 8.8 ft

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.5		POORLY GRADED SAND with SILT (SP-SM), trace Gravel, with organic, and roots, brown, moist, no odor			0.6		
		POORLY GRADED SAND (SP), medium-grained, trace Cobbles, light brown, no odor					
2.5		POORLY GRADED SAND with SILT (SP-SM), trace Gravel, brown, moist, no odor		75	0.4		
5.0		POORLY GRADED SAND (SP), medium-grained, trace Gravel, brown, moist, no odor	5		0.8		
	▽	*Wet at 9 feet*		100	0.4		Temporary well installed with screen set from 8.5 to 13.5 feet
			10		0.7		Water sample TW-1 (8.5-13.5') @ 14:00 collected for DRO, VOCs, pH, Lead and Chromium
				100			
14.0					0.7		
15.0		SANDY SILT (ML), some Gravel, dark brown, moist, no odor	15				
		END OF BORING					
		Boring then grouted					

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LOG OF BORING

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2408132
Geotechnical Evaluation
Nova Classical Academy Addition
1455 Victoria Way
Saint Paul, Minnesota

BORING: **ST-1**
LOCATION: Captured with RTK GPS.
DATUM: NAD 1983 HARN Adj MN Ramsey (US Feet)
NORTHING: 146440.5 EASTING: 563672.3
DRILLER: G. Scallon LOGGED BY: C. Lukkarila START DATE: 09/30/24 END DATE: 09/30/24
SURFACE ELEVATION: 787.0 ft RIG: GP-4 METHOD: 3 1/4" HSA SURFACING: Grass WEATHER: Clear

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
786.7							
0.3		SILTY SAND (SM), fine-grained, trace roots, dark brown, moist (TOPSOIL FILL)					
		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, brown, moist		5-5-5-3 (10) 14"			
				2-2-3 (5) 13"			
			5	9-7-8 (15) 14"		8	P200=14%
780.5							
6.5		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, trace Clay inclusions, brown, moist to wet		9-6-10 (16) 12"		12	
	▽		10	12-9-17-23 (26) 18"			
775.5				12-15-19-15 (34) 24"			
11.5		FILL: POORLY GRADED SAND (SP), fine to medium-grained, trace Gravel, brown, wet					
774.0							
13.0		END OF BORING					Water observed at 10.0 feet while drilling.
		Boring then backfilled with auger cuttings	15				

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LOG OF BORING

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2408132
Geotechnical Evaluation
Nova Classical Academy Addition
1455 Victoria Way
Saint Paul, Minnesota

BORING: **ST-2**
LOCATION: Captured with RTK GPS.
DATUM: NAD 1983 HARN Adj MN Ramsey (US Feet)
NORTHING: 146511.9 EASTING: 563757.5
DRILLER: G. Scallon LOGGED BY: C. Lukkarila START DATE: 09/30/24 END DATE: 09/30/24
SURFACE ELEVATION: 788.3 ft RIG: GP-4 METHOD: 3 1/4" HSA SURFACING: Grass WEATHER: Clear

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
787.8		(SM), fine to medium-grained, trace Gravel, brown, moist (TOPSOIL FILL)		13-13-13-18 (26) 14"			
0.5		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, brown, moist		21-18-17 (35) 12"			
784.3							
4.0		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, brown, moist	5	16-12-14 (26) 13"		5	P200=11%
				16-11-12 (23) 10"			
779.3							
9.0		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, trace Clay inclusions, brown, moist to wet	10	17-13-16 (29) 10"		10	P200=18%
	▽			17-13-16 (29) 12"			
774.3							
14.0		END OF BORING					Water observed at 13.0 feet while drilling.
		Boring then backfilled with auger cuttings	15				

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LOG OF BORING

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2408132
Geotechnical Evaluation
Nova Classical Academy Addition
1455 Victoria Way
Saint Paul, Minnesota

BORING: **ST-3**
LOCATION: Captured with RTK GPS.
DATUM: NAD 1983 HARN Adj MN Ramsey (US Feet)
NORTHING: 146528.6 EASTING: 563667.6
DRILLER: G. Scallon LOGGED BY: C. Lukkarila START DATE: 09/30/24 END DATE: 09/30/24
SURFACE ELEVATION: 788.3 ft RIG: GP-4 METHOD: 3 1/4" HSA SURFACING: Grass WEATHER: Clear

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
787.8		SILTY SAND (SM), fine to medium-grained, trace roots, brown, moist (TOPSOIL FILL)		9-12-16-21 (28) 14"			
0.5		FILL: SILTY SAND (SM), fine to medium-grained, trace Gravel, brown, moist		18-15-14 (29) 14"		6	
784.3							
4.0		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, trace Clay inclusions, brown, moist	5	14-11-9 (20) 15"		4	P200=8%
				13-11-11 (22) 14"			
			10	6-3-12 (15) 13"			
776.8							
11.5	▽	FILL: POORLY GRADED SAND (SP), fine to medium-grained, trace Gravel, brown, wet		15-13-11 (24) 12"			
774.3							
14.0		END OF BORING Boring then backfilled with auger cuttings	15				Water observed at 12.0 feet while drilling.

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LOG OF BORING

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2408132
Geotechnical Evaluation
Nova Classical Academy Addition
1455 Victoria Way
Saint Paul, Minnesota

BORING: **ST-4**
LOCATION: Captured with RTK GPS.
DATUM: NAD 1983 HARN Adj MN Ramsey (US Feet)
NORTHING: 146544.1 EASTING: 563581.8
DRILLER: G. Scallon LOGGED BY: C. Lukkarila START DATE: 09/30/24 END DATE: 09/30/24
SURFACE ELEVATION: 789.2 ft RIG: GP-4 METHOD: 3 1/4" HSA SURFACING: Grass WEATHER: Clear

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
788.9							
0.3		SILTY SAND (SM), fine-grained, trace Gravel, brown, moist (TOPSOIL FILL)		3-4-5-6 (9) 14"			
		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, brown, moist		6-4-4 (8) 15"		4	
			5	3-2-4 (6) 15"		5	P200=7%
				4-3-5 (8) 14"			
780.2							
9.0		FILL: POORLY GRADED SAND (SP), fine to medium-grained, trace Gravel, brown, moist to wet	10	7-4-8 (12) 13"			
	▽			12-13-17 (30) 14"			
775.2							
14.0		END OF BORING					Water observed at 11.0 feet while drilling.
		Boring then backfilled with auger cuttings	15				

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LOG OF BORING

See Descriptive Terminology sheet for explanation of abbreviations

Project Number B2408132
Geotechnical Evaluation
Nova Classical Academy Addition
1455 Victoria Way
Saint Paul, Minnesota

BORING: **ST-5**
LOCATION: Captured with RTK GPS.
DATUM: NAD 1983 HARN Adj MN Ramsey (US Feet)
NORTHING: 146613.0 EASTING: 563656.4
DRILLER: G. Scallon LOGGED BY: C. Lukkarila START DATE: 09/30/24 END DATE: 09/30/24
SURFACE ELEVATION: 789.2 ft RIG: GP-4 METHOD: 3 1/4" HSA SURFACING: Grass WEATHER: Clear

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Blows (N-Value) Recovery	q_p tsf	MC %	Tests or Remarks
788.6		POORLY GRADED SAND with SILT (SP-SM), fine-grained, trace Gravel, brown, moist (TOPSOIL FILL)		9-9-13-13 (22) 16"			
0.6		FILL: SILTY SAND (SM), fine-grained, trace Gravel, brown, moist		32-23-26 (49) 14"		3	
785.2							
4.0		FILL: POORLY GRADED SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, brown, moist	5	29-16-16 (32) 12"		4	P200=10%
				17-13-15 (28) 13"			
780.2							
9.0	▽	FILL: POORLY GRADED SAND (SP), fine to medium-grained, trace Gravel, brown, moist to wet	10	12-11-15 (26) 13"			
				30-20-21 (41) 12"			
775.2							
14.0		END OF BORING					Water observed at 12.0 feet while drilling.
		Boring then backfilled with auger cuttings	15				

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Appendix E

Laboratory Reports

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BRAUN INTERTEC

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

February 25, 2025

Ken Larsen
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

Dear Ken Larsen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 30, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

This report was revised on February 25, 2025, to update the sample ID for Pace sample 10713890001.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sydni Harrison
sydni.harrison@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Eric Crouser, Braun Intertec
Ben Fedje, Braun Intertec

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10713890001	**TW-1 (8.5-13.5)**	Water	10/29/24 14:00	10/30/24 10:50
10713890002	**Trip Blank**	Water		10/30/24 10:50

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10713890001	**TW-1 (8.5-13.5)**	WI MOD DRO	HJN	2
		EPA 6010D	IP	2
		EPA 8260D	NMB	72
		SM 4500-H+B	KEO	1
10713890002	**Trip Blank**	EPA 8260D	NMB	72

PASI-M = Pace Analytical Services - Minneapolis

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

Sample: TW-1 (8.5-13.5) **Lab ID: 10713890001** Collected: 10/29/24 14:00 Received: 10/30/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO LV GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/L	0.10	1	11/01/24 15:43	11/04/24 12:52		
Surrogates								
n-Triacontane (S)	72	%.	50-150	1	11/01/24 15:43	11/04/24 12:52		
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Chromium, Dissolved	ND	ug/L	10.0	1	11/04/24 06:25	11/06/24 14:49	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	11/04/24 06:25	11/06/24 14:49	7439-92-1	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	5.0	1		11/08/24 22:01	67-64-1	
Allyl chloride	ND	ug/L	1.0	1		11/08/24 22:01	107-05-1	
Benzene	ND	ug/L	0.50	1		11/08/24 22:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/08/24 22:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/08/24 22:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/08/24 22:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/08/24 22:01	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/08/24 22:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/08/24 22:01	78-93-3	
n-Butylbenzene	ND	ug/L	0.50	1		11/08/24 22:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/08/24 22:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/08/24 22:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/08/24 22:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/08/24 22:01	108-90-7	
Chloroethane	ND	ug/L	0.50	1		11/08/24 22:01	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/08/24 22:01	67-66-3	
Chloromethane	ND	ug/L	0.50	1		11/08/24 22:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/08/24 22:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/08/24 22:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/08/24 22:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/08/24 22:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/08/24 22:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/08/24 22:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/08/24 22:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/08/24 22:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/08/24 22:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/08/24 22:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/08/24 22:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/08/24 22:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/08/24 22:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/08/24 22:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/08/24 22:01	156-60-5	
Dichlorofluoromethane	ND	ug/L	0.50	1		11/08/24 22:01	75-43-4	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/08/24 22:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/08/24 22:01	142-28-9	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

Sample: TW-1 (8.5-13.5) **Lab ID: 10713890001** Collected: 10/29/24 14:00 Received: 10/30/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
2,2-Dichloropropane	ND	ug/L	0.50	1		11/08/24 22:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		11/08/24 22:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/08/24 22:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/08/24 22:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	1.0	1		11/08/24 22:01	60-29-7	
Ethylbenzene	ND	ug/L	0.50	1		11/08/24 22:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		11/08/24 22:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/08/24 22:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		11/08/24 22:01	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		11/08/24 22:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/08/24 22:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/08/24 22:01	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		11/08/24 22:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/08/24 22:01	103-65-1	
Styrene	ND	ug/L	0.50	1		11/08/24 22:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/08/24 22:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/08/24 22:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/08/24 22:01	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		11/08/24 22:01	109-99-9	
Toluene	ND	ug/L	0.50	1		11/08/24 22:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		11/08/24 22:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		11/08/24 22:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/08/24 22:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/08/24 22:01	79-00-5	
Trichloroethene	ND	ug/L	0.20	1		11/08/24 22:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1		11/08/24 22:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/08/24 22:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.50	1		11/08/24 22:01	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/08/24 22:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/08/24 22:01	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		11/08/24 22:01	75-01-4	
Xylene (Total)	ND	ug/L	1.5	1		11/08/24 22:01	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		11/08/24 22:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/08/24 22:01	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		11/08/24 22:01	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125	1		11/08/24 22:01	460-00-4	
Toluene-d8 (S)	104	%.	75-125	1		11/08/24 22:01	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		11/07/24 14:28		H6

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(612)607-1700

ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

Sample: Trip Blank **Lab ID: 10713890002** Collected: Received: 10/30/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	5.0	1		11/08/24 19:37	67-64-1	
Allyl chloride	ND	ug/L	1.0	1		11/08/24 19:37	107-05-1	
Benzene	ND	ug/L	0.50	1		11/08/24 19:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/08/24 19:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/08/24 19:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/08/24 19:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/08/24 19:37	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/08/24 19:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/08/24 19:37	78-93-3	
n-Butylbenzene	ND	ug/L	0.50	1		11/08/24 19:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/08/24 19:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/08/24 19:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/08/24 19:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/08/24 19:37	108-90-7	
Chloroethane	ND	ug/L	0.50	1		11/08/24 19:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/08/24 19:37	67-66-3	
Chloromethane	ND	ug/L	0.50	1		11/08/24 19:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/08/24 19:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/08/24 19:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/08/24 19:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/08/24 19:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/08/24 19:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/08/24 19:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/08/24 19:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/08/24 19:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/08/24 19:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/08/24 19:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/08/24 19:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/08/24 19:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/08/24 19:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/08/24 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/08/24 19:37	156-60-5	
Dichlorofluoromethane	ND	ug/L	0.50	1		11/08/24 19:37	75-43-4	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/08/24 19:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/08/24 19:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/08/24 19:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		11/08/24 19:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/08/24 19:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/08/24 19:37	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	1.0	1		11/08/24 19:37	60-29-7	
Ethylbenzene	ND	ug/L	0.50	1		11/08/24 19:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		11/08/24 19:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/08/24 19:37	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		11/08/24 19:37	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		11/08/24 19:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/08/24 19:37	108-10-1	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

Sample: Trip Blank **Lab ID: 10713890002** Collected: Received: 10/30/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/08/24 19:37	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		11/08/24 19:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/08/24 19:37	103-65-1	
Styrene	ND	ug/L	0.50	1		11/08/24 19:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/08/24 19:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/08/24 19:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/08/24 19:37	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		11/08/24 19:37	109-99-9	
Toluene	ND	ug/L	0.50	1		11/08/24 19:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		11/08/24 19:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		11/08/24 19:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/08/24 19:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/08/24 19:37	79-00-5	
Trichloroethene	ND	ug/L	0.20	1		11/08/24 19:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1		11/08/24 19:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/08/24 19:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.50	1		11/08/24 19:37	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/08/24 19:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/08/24 19:37	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		11/08/24 19:37	75-01-4	
Xylene (Total)	ND	ug/L	1.5	1		11/08/24 19:37	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		11/08/24 19:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/08/24 19:37	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		11/08/24 19:37	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125	1		11/08/24 19:37	460-00-4	
Toluene-d8 (S)	104	%.	75-125	1		11/08/24 19:37	2037-26-5	

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

QC Batch: 977520
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D Water Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713890001

METHOD BLANK: 5109246 Matrix: Water
Associated Lab Samples: 10713890001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	ND	10.0	11/06/24 14:46	
Lead, Dissolved	ug/L	ND	10.0	11/06/24 14:46	

LABORATORY CONTROL SAMPLE: 5109247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	1000	973	97	80-120	
Lead, Dissolved	ug/L	1000	983	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5109248 5109249

Parameter	Units	10713890001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Dissolved	ug/L	ND	1000	1000	971	960	97	96	75-125	1	20	
Lead, Dissolved	ug/L	ND	1000	1000	969	962	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

QC Batch: 978757
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV LL Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713890001, 10713890002

METHOD BLANK: 5114561 Matrix: Water
Associated Lab Samples: 10713890001, 10713890002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/08/24 19:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/08/24 19:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/08/24 19:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/08/24 19:21	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	0.50	11/08/24 19:21	
1,1-Dichloroethane	ug/L	ND	0.50	11/08/24 19:21	
1,1-Dichloroethene	ug/L	ND	0.50	11/08/24 19:21	
1,1-Dichloropropene	ug/L	ND	0.50	11/08/24 19:21	
1,2,3-Trichlorobenzene	ug/L	ND	0.50	11/08/24 19:21	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/08/24 19:21	
1,2,4-Trichlorobenzene	ug/L	ND	0.50	11/08/24 19:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/08/24 19:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/08/24 19:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/08/24 19:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/08/24 19:21	
1,2-Dichloroethane	ug/L	ND	0.50	11/08/24 19:21	
1,2-Dichloropropane	ug/L	ND	0.50	11/08/24 19:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/08/24 19:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/08/24 19:21	
1,3-Dichloropropane	ug/L	ND	0.50	11/08/24 19:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/08/24 19:21	
2,2-Dichloropropane	ug/L	ND	0.50	11/08/24 19:21	
2-Butanone (MEK)	ug/L	ND	5.0	11/08/24 19:21	
2-Chlorotoluene	ug/L	ND	0.50	11/08/24 19:21	
4-Chlorotoluene	ug/L	ND	0.50	11/08/24 19:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/08/24 19:21	
Acetone	ug/L	ND	5.0	11/08/24 19:21	
Allyl chloride	ug/L	ND	1.0	11/08/24 19:21	
Benzene	ug/L	ND	0.50	11/08/24 19:21	
Bromobenzene	ug/L	ND	0.50	11/08/24 19:21	
Bromochloromethane	ug/L	ND	0.50	11/08/24 19:21	
Bromodichloromethane	ug/L	ND	0.50	11/08/24 19:21	
Bromoform	ug/L	ND	0.50	11/08/24 19:21	
Bromomethane	ug/L	ND	1.0	11/08/24 19:21	
Carbon tetrachloride	ug/L	ND	0.50	11/08/24 19:21	
Chlorobenzene	ug/L	ND	0.50	11/08/24 19:21	
Chloroethane	ug/L	ND	0.50	11/08/24 19:21	
Chloroform	ug/L	ND	0.50	11/08/24 19:21	
Chloromethane	ug/L	ND	0.50	11/08/24 19:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/08/24 19:21	

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

METHOD BLANK: 5114561 Matrix: Water
Associated Lab Samples: 10713890001, 10713890002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/08/24 19:21	
Dibromochloromethane	ug/L	ND	0.50	11/08/24 19:21	
Dibromomethane	ug/L	ND	0.50	11/08/24 19:21	
Dichlorodifluoromethane	ug/L	ND	0.50	11/08/24 19:21	
Dichlorofluoromethane	ug/L	ND	0.50	11/08/24 19:21	
Diethyl ether (Ethyl ether)	ug/L	ND	1.0	11/08/24 19:21	
Ethylbenzene	ug/L	ND	0.50	11/08/24 19:21	
Hexachloro-1,3-butadiene	ug/L	ND	0.50	11/08/24 19:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/08/24 19:21	
m&p-Xylene	ug/L	ND	1.0	11/08/24 19:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/08/24 19:21	
Methylene Chloride	ug/L	ND	1.0	11/08/24 19:21	
n-Butylbenzene	ug/L	ND	0.50	11/08/24 19:21	
n-Propylbenzene	ug/L	ND	0.50	11/08/24 19:21	
Naphthalene	ug/L	ND	0.50	11/08/24 19:21	
o-Xylene	ug/L	ND	0.50	11/08/24 19:21	
p-Isopropyltoluene	ug/L	ND	0.50	11/08/24 19:21	
sec-Butylbenzene	ug/L	ND	0.50	11/08/24 19:21	
Styrene	ug/L	ND	0.50	11/08/24 19:21	
tert-Butylbenzene	ug/L	ND	0.50	11/08/24 19:21	
Tetrachloroethene	ug/L	ND	0.50	11/08/24 19:21	
Tetrahydrofuran	ug/L	ND	5.0	11/08/24 19:21	
Toluene	ug/L	ND	0.50	11/08/24 19:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/08/24 19:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/08/24 19:21	
Trichloroethene	ug/L	ND	0.20	11/08/24 19:21	
Trichlorofluoromethane	ug/L	ND	0.50	11/08/24 19:21	
Vinyl chloride	ug/L	ND	0.20	11/08/24 19:21	
Xylene (Total)	ug/L	ND	1.5	11/08/24 19:21	
1,2-Dichlorobenzene-d4 (S)	%.	100	75-125	11/08/24 19:21	
4-Bromofluorobenzene (S)	%.	101	75-125	11/08/24 19:21	
Toluene-d8 (S)	%.	102	75-125	11/08/24 19:21	

LABORATORY CONTROL SAMPLE & LCSD: 5114562 5114563

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.1	19.4	100	97	75-125	3	20	
1,1,1-Trichloroethane	ug/L	20	19.4	19.1	97	95	75-125	2	20	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	20.7	99	104	75-131	4	20	
1,1,2-Trichloroethane	ug/L	20	21.5	20.8	107	104	75-125	3	20	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.8	20.4	104	102	75-125	2	20	
1,1-Dichloroethane	ug/L	20	19.1	19.2	96	96	75-125	0	20	
1,1-Dichloroethene	ug/L	20	20.4	20.0	102	100	75-125	2	20	
1,1-Dichloropropene	ug/L	20	19.7	20.1	99	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

LABORATORY CONTROL SAMPLE & LCSD: 5114562 5114563

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	21.3	20.6	106	103	68-125	3	20	
1,2,3-Trichloropropane	ug/L	20	19.5	20.3	98	102	75-125	4	20	
1,2,4-Trichlorobenzene	ug/L	20	20.5	19.7	103	99	68-125	4	20	
1,2,4-Trimethylbenzene	ug/L	20	19.6	19.6	98	98	75-125	0	20	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	18.9	93	94	70-125	1	20	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	20.5	100	103	75-125	2	20	
1,2-Dichlorobenzene	ug/L	20	18.6	18.4	93	92	73-125	1	20	
1,2-Dichloroethane	ug/L	20	18.6	18.8	93	94	75-125	1	20	
1,2-Dichloropropane	ug/L	20	20.2	20.1	101	100	75-125	0	20	
1,3,5-Trimethylbenzene	ug/L	20	19.6	19.3	98	96	75-125	2	20	
1,3-Dichlorobenzene	ug/L	20	19.3	19.4	97	97	75-125	1	20	
1,3-Dichloropropane	ug/L	20	20.8	20.4	104	102	75-125	2	20	
1,4-Dichlorobenzene	ug/L	20	18.5	18.2	93	91	75-125	2	20	
2,2-Dichloropropane	ug/L	20	18.9	18.1	95	91	67-125	4	20	
2-Butanone (MEK)	ug/L	100	121	121	121	121	72-125	1	20	
2-Chlorotoluene	ug/L	20	19.1	18.6	95	93	74-125	2	20	
4-Chlorotoluene	ug/L	20	19.2	19.2	96	96	75-125	0	20	
4-Methyl-2-pentanone (MIBK)	ug/L	100	116	114	116	114	75-125	2	20	
Acetone	ug/L	100	106	105	106	105	71-125	1	20	
Allyl chloride	ug/L	20	18.4	19.7	92	99	75-125	7	20	
Benzene	ug/L	20	19.4	19.6	97	98	75-125	1	20	
Bromobenzene	ug/L	20	19.3	18.8	97	94	75-125	2	20	
Bromochloromethane	ug/L	20	20.3	20.5	101	102	75-125	1	20	
Bromodichloromethane	ug/L	20	20.3	20.3	102	102	75-125	0	20	
Bromoform	ug/L	20	20.0	19.5	100	98	72-125	2	20	
Bromomethane	ug/L	20	14.6	15.3	73	76	30-150	5	20	
Carbon tetrachloride	ug/L	20	18.6	18.3	93	91	75-125	2	20	
Chlorobenzene	ug/L	20	19.9	19.3	100	96	75-125	3	20	
Chloroethane	ug/L	20	18.7	18.9	94	94	65-140	1	20	
Chloroform	ug/L	20	19.2	19.4	96	97	75-125	1	20	
Chloromethane	ug/L	20	18.8	18.7	94	93	72-127	1	20	
cis-1,2-Dichloroethene	ug/L	20	20.2	19.6	101	98	75-125	3	20	
cis-1,3-Dichloropropene	ug/L	20	20.1	20.1	101	100	75-125	0	20	
Dibromochloromethane	ug/L	20	19.9	20.3	100	102	75-125	2	20	
Dibromomethane	ug/L	20	21.0	21.1	105	105	75-125	0	20	
Dichlorodifluoromethane	ug/L	20	18.3	18.2	92	91	56-146	1	20	
Dichlorofluoromethane	ug/L	20	19.3	19.1	97	95	75-125	1	20	
Diethyl ether (Ethyl ether)	ug/L	20	20.6	20.3	103	101	75-126	2	20	
Ethylbenzene	ug/L	20	20.2	19.7	101	99	75-125	3	20	
Hexachloro-1,3-butadiene	ug/L	20	20.9	20.9	104	104	59-125	0	20	
Isopropylbenzene (Cumene)	ug/L	20	20.6	19.9	103	100	75-125	3	20	
m&p-Xylene	ug/L	40	40.7	38.9	102	97	75-125	5	20	
Methyl-tert-butyl ether	ug/L	20	21.0	21.2	105	106	75-125	1	20	
Methylene Chloride	ug/L	20	18.4	18.4	92	92	73-125	0	20	
n-Butylbenzene	ug/L	20	18.7	18.4	93	92	75-125	2	20	
n-Propylbenzene	ug/L	20	19.5	19.1	97	96	75-125	2	20	
Naphthalene	ug/L	20	20.6	20.9	103	105	65-130	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

DRAFT

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

LABORATORY CONTROL SAMPLE & LCSD: 5114562 5114563

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	20	20.7	19.9	104	100	75-125	4	20	
p-Isopropyltoluene	ug/L	20	20.0	19.9	100	100	74-125	0	20	
sec-Butylbenzene	ug/L	20	19.8	19.5	99	97	75-125	2	20	
Styrene	ug/L	20	20.4	19.7	102	99	75-125	3	20	
tert-Butylbenzene	ug/L	20	19.6	19.2	98	96	75-125	2	20	
Tetrachloroethene	ug/L	20	20.2	20.4	101	102	75-125	1	20	
Tetrahydrofuran	ug/L	100	119	118	119	118	75-125	1	20	
Toluene	ug/L	20	18.8	18.8	94	94	75-125	0	20	
trans-1,2-Dichloroethene	ug/L	20	19.2	19.3	96	96	75-125	0	20	
trans-1,3-Dichloropropene	ug/L	20	19.3	18.7	97	94	75-125	3	20	
Trichloroethene	ug/L	20	20.5	20.1	102	100	75-125	2	20	
Trichlorofluoromethane	ug/L	20	19.6	19.8	98	99	75-128	1	20	
Vinyl chloride	ug/L	20	18.7	18.4	93	92	69-130	1	20	
Xylene (Total)	ug/L	60	61.5	58.8	102	98	75-125	4	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	99	75-125			
4-Bromofluorobenzene (S)	%.				100	99	75-125			
Toluene-d8 (S)	%.				97	99	75-125			

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

QC Batch: 977358
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO Low Volume GCS
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713890001

METHOD BLANK: 5107754 Matrix: Water
Associated Lab Samples: 10713890001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/L	ND	0.10	11/04/24 12:21	
n-Triacontane (S)	%.	89	50-150	11/04/24 12:21	

LABORATORY CONTROL SAMPLE & LCSD: 5107755 5107756

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/L	0.8	0.62	0.84	78	104	75-115	29	20	R1
n-Triacontane (S)	%.				89	100	50-150			

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

QC Batch: 978445
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713890001

LABORATORY CONTROL SAMPLE: 5113096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	101	98-102	H6

SAMPLE DUPLICATE: 5113097

Parameter	Units	10713810002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	0	3	H6

SAMPLE DUPLICATE: 5113098

Parameter	Units	10713810003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	3	H6

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 978757

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
[1]	The continuing calibration verification was above the method acceptance limit for 2-butanone (MEK), tetrahydrofuran, 4-methyl-2-pentanone (MIBK), and 2-hexanone. Any detection for the analyte in the associated samples may have a high bias.
[2]	The continuing calibration verification was below the method acceptance limit for bromomethane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA required holding time.
R1	RPD value was outside control limits.

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1608280.02 Nova Classical-Revised Report
Pace Project No.: 10713890

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10713890001	**TW-1 (8.5-13.5)**	WI MOD DRO	977358	WI MOD DRO	977702
10713890001	**TW-1 (8.5-13.5)**	EPA 3010A	977520	EPA 6010D	977678
10713890001	**TW-1 (8.5-13.5)**	EPA 8260D	978757		
10713890002	**Trip Blank**	EPA 8260D	978757		
10713890001	**TW-1 (8.5-13.5)**	SM 4500-H+B	978445		

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BRAUN INTERTEC

Braun Intertec EDGE Chain-of-Custody Form

Chain-of-custody form is a legal document. Please complete all applicable fields.

Lab Work Order Sticker

PROJECT INFORMATION			
Project No.:	B1608280.02	MPCA Site ID:	VP8804
Project Name:	Nova Classical Academy	MPCA Task Code:	
Project Manager:	Ken Larsen	MDH Program Code:	
PM Email:	KLarsen@braunintertec.com	MPCA WO No.:	
PM Phone No.:	612-599-1704	Template/Profile:	T# 35100
CC Name & Email:	Ben Fedje / BFedje@braunintertec.com	Prelogin/Bottle Order:	P#

LABORATORY			
Lab Name:	Pace National	Turn-Around Time:	☒ Standard ☐ **RUSH**
Lab Address:	12065 Lebanon Road	Date Requested:	
	Mt Juliet, TN 37122	Deliverable(s):	☐ Level II ☐ Level III ☐ Level IV
EPA Lab ID:		Send lab data file to:	☒ Braun Intertec ☐ MPCA
Potential Hazard?	☒ No ☐ Yes	Billing Rate:	☒ Standard ☐ MPCA
If yes, specify in Comments field.			☐ Petrofund ☐ Other:

SAMPLE & ANALYSIS INFORMATION

SAMPLE TYPES
Sample = Sample
QC-FR = Duplicate
QC-FB = Field blank
QC-EB = Equipment blank
QC-TB = Trip blank
S-IDW = Inv. derived waste
QC-BLANK for LUI for QC-FB, QC-EB, QC-TB, S-IDW.

SAMPLING METHODS
SOILBORI = Subsurface soil from boring
SHALLSOIL = Surface soil
WELL-SUBMERS = Submersible pump
WELL-NONSUBMERS = Nonsubmersible pump
WELL-BAIL = Bailer
SW-GAS = Any soil vapor, indoor, or outdoor air
OTHER = Any other sampling method(s)
QC-BLANK = QC-FB, QC-EB, QC-TB, S-IDW

LAB MATRICES
SD = Soil, sediment, solid
NW = Nonpotable water
DW = Drinking water
AR = Air, gas, vapor
BL = Biological material
TS = Tissue
OT = Other
FB, EB, TB must have Lab Matrix

FIELD MATRICES
Soil-Sub = Subsurface soil
Soil-Surf = Surface soil
Wtr-Ground = Groundwater
Wtr-Drink = Drinking water
Gas-Soil = Soil gas/vapor
Air-Indoor = Indoor air
Air-Ambnt = Outdoor air
QC-BLANK for FB, EB, TB, IDW

List preservative used for each analysis; if n/a write "None". If soil and water samples have different preservatives for the same analysis, use two columns.

LUI	Sample Name	Sample Type	Start Date mm/dd/yyyy	Start Time 24-hr hh:mm	Depth Start	Depth End	Depth Units	End Date mm/dd/yyyy	End Time 24-hr hh:mm	Sampling Method	Lab Matrix	Field Matrix	AIS	Comments	# of Cont.	Analysis	pH	DRO by WDNR	VOCs by 8260	Lead and Chromium by 6010/6020					Lab Sample No.	#
																Preserv	None	HCl	HCl	HNO3						
																FF	N	N	N	Y						
2001020288	GW-1 (8.5-13.5)	Sample	10/29/2024	14:00	8.5	13.5	ft			WELL-NONSUBMERS	NW	Wtr-Ground			7		X	X	X	X					01	1
																										2
																										3
																										4
																										5
																										6
																										7
																										8
																										9
																										10

WO# : 10713890
10713890

Sampler's Name: Ben Fedje	Relinquished by (name):	Company: Braun	Date/Time: 10/29/24 18:30	Received By:	Company: Pace	Date/Time: 0930 10/30/24	Comments:	No. of Coolers/Boxes: 2
Sampler's Phone: 651-367-6840	Relinquished by:	Company: Pace	Date/Time: 10/30/24 0930	Received By:	Company: Pace	Date/Time: 10/30/24 950		
Sampler's Signature:	Relinquished by:	Company:	Date/Time: 10/30/24 1052	Received By: Cary/Pace	Company:	Date/Time: 10/30/24 10:50		Page 1 of 2

Temps: 1.3 & 1.4

Braun Intertec EDGE COC Soil/Water 2023-11-14

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: Braun Intertec **PROJECT #:** WO#: 10713890

PM: SH5 Due Date: 11/13/24
CLIENT: PASI-MINN

COURIER: ☐ Client ☐ Commercial ☐ FedEx ☑ Pace ☐ SpeeDee ☐ UPS ☐ USPS

TRACKING NUMBER: _____ ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☑ NO **Seals Intact:** ☐ YES ☑ NO **Biological Tissue Frozen:** ☐ YES ☐ NO ☑ N/A

Packing Material: ☑ Bubble Bags ☑ Bubble Wrap ☐ None ☐ Other **Temp Blank:** ☑ YES ☐ NO **Type of Ice:** ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☑ T3 (0459) ☐ T4 (0402) ☐ TS (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☐ YES ☑ NO	**Were All Container Temps taken:** ☐ YES ☐ NO ☑ N/A
Correction Factor: -0.3 **Cooler Temp Read w/Temp Blank:** 1.6, 1.7 °C **Cooler Temp Corrected w/Temp Blank:** 1.3, 1.4 °C	**Average Corrected Temp (no Temp Blank Only):** _____ °C
NOTE: *Temp should be above freezing to 6°C.*	☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container
USDA Regulated Soil: ☑ N/A – Water Sample/Other (describe): _____	**Initials & Date of Person Examining Contents:** CRL 10/31/24
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☐ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA

	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out?	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☑	☐	☐	3.
Samples Arrived within Hold Time?	☑	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: _____
Rush Turn Around Time Requested?	☐	☑		6.
Sufficient Sample Volume?	☑	☐		7.
Correct Containers Used?	☑	☐	☐	8.
– Pace Containers Used?	☑	☐		
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☑	☐	☐	10. Is sediment visible in the dissolved container: ☐ YES ☑ NO
Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐		11. **If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☑	☐	☐	12. Sample #: 001
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☑	☐	☐	☑ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	☑	☐	☐	Positive for Residual Chlorine: ☐ YES ☐ NO
NOTE: If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs.				**pH Paper Lot #**
				Residual Chlorine: ☐ 0-6 Roll: 205224 ☐ 0-6 Strip ☐ 0-14 Strip
				☐ See Exceptions form ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container?	☐	☐	☑	13.
Extra labels present on soil VOA or WIDRO containers?	☐	☑	☐	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☑	☐	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☑	☐	☐	15. 2
Trip Blank Custody Seals Present?	☑	☐	☐	Pace Trip Blank Lot # (if purchased): 481196

CLIENT NOTIFICATION / RESOLUTION **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Sydni Harrison **Date:** 10/31/2024

NOTE: *When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

Labeled By: PJL **Line:** 2

DRAFT

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐ MT ☐

Client: Braun Intertec

Destination Lab:

MPLS ☒ Duluth ☐ National ☐ Other ☐

Received w/ Custody Seal? Yes ☐ No ☒

Custody Seal Intact? Yes ☐ No ☒

Temperature °C: Temp Read 0.7 → 1.4 | Corr. Factor SUB 0.7 | Corr. Temp 0.0 → 0.7

IR Gun: G87A9205200775 (T8) ☒ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☒

Containers Intact? Yes ☒ No ☐

Repacked and Re-Iced? Yes ☐ No ☒

Notes:

No Temp Blank Section

Read Temp	Corr. Temp	Avg. Temp

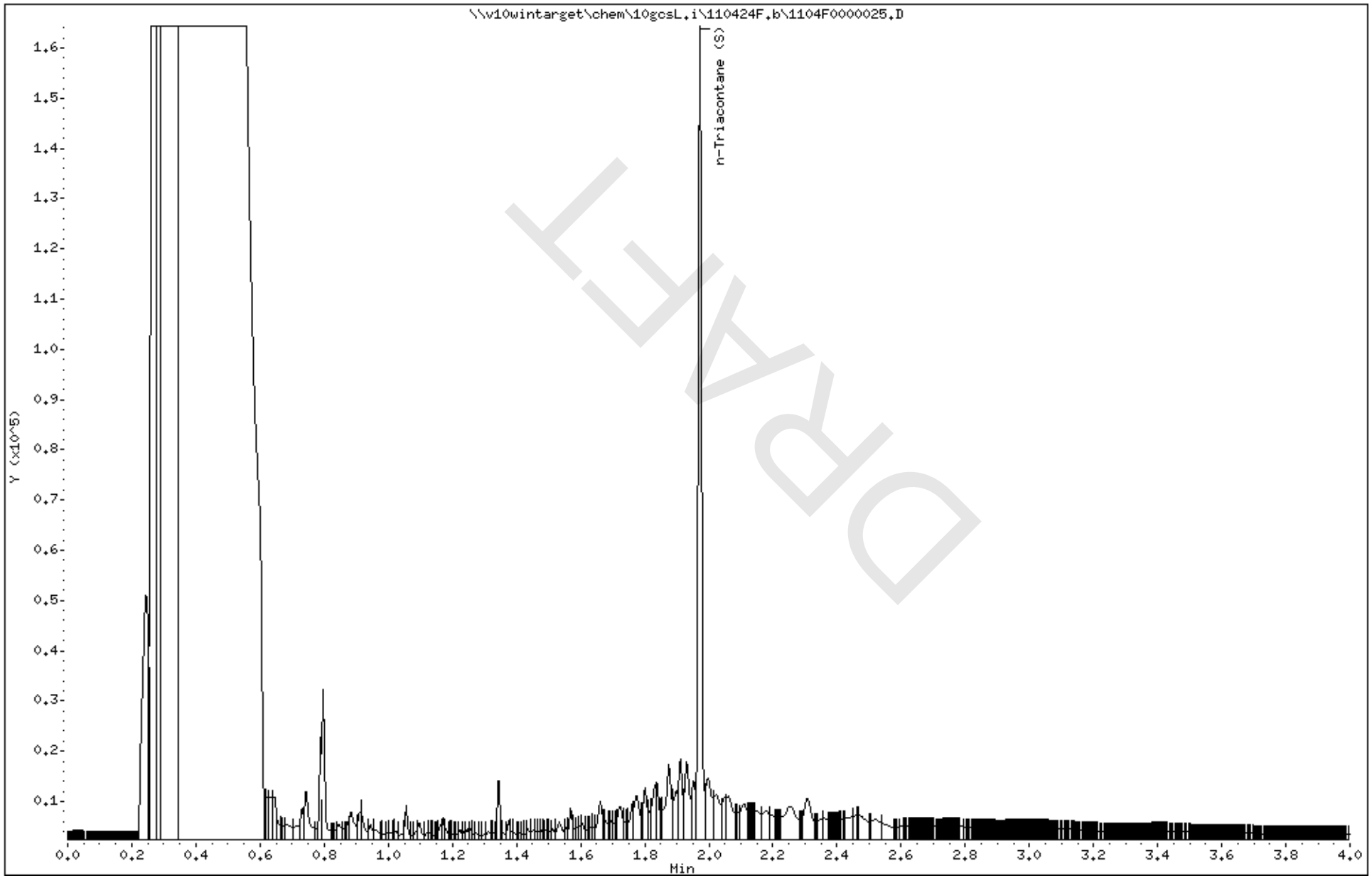
10/30/24

AF1

DRAFT

Data File: \\v10wintarget\chem\10gcsL.i\110424F.b\1104F0000025.D
Date : 04-NOV-2024 12:52
Client ID: GW-1 (8.5-13.5)
Sample Info: 10713890001
Volume Injected (uL): 1.0
Column phase: DB-5-US24260001

Instrument: 10gcsL.i
Operator: HJN
Column diameter: 0.32



Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

November 11, 2024

Ken Larsen
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Dear Ken Larsen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 30, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sydni Harrison
sydni.harrison@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Eric Crouser, Braun Intertec
Ben Fedje, Braun Intertec

DRAFT

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10713906001	**HA-1 (3-4)**	Solid	10/29/24 16:00	10/30/24 10:50
10713906002	**HA-2 (1-2)**	Solid	10/29/24 16:30	10/30/24 10:50
10713906003	**Trip Blank**	Solid		10/30/24 10:50

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SAMPLE ANALYTE COUNT

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10713906001	**HA-1 (3-4)**	WI MOD DRO	TT2	2	PASI-M
		WI MOD GRO	ALE	2	PASI-M
		EPA 6010D	SMB	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	GY1	19	PASI-M
		EPA 8260D	ZB	70	PASI-M
10713906002	**HA-2 (1-2)**	WI MOD DRO	TT2	2	PASI-M
		WI MOD GRO	ALE	2	PASI-M
		EPA 6010D	SMB	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	GY1	19	PASI-M
		EPA 8260D	ZB	70	PASI-M
10713906003	**Trip Blank**	WI MOD GRO	ALE	2	PASI-M
		EPA 8260D	ZB	70	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Method: **WI MOD DRO**
Description: WIDRO GCS Silica Gel
Client: Braun Intertec Corporation
Date: November 11, 2024

General Information:
2 samples were analyzed for WI MOD DRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Braun Intertec Corporation
Date: November 11, 2024

General Information:
3 samples were analyzed for WI MOD GRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5030 Medium Soil with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 977570

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: Braun Intertec Corporation
Date: November 11, 2024

General Information:
2 samples were analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: November 11, 2024

General Information:
2 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: November 11, 2024

General Information:
2 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Method: **EPA 8260D**
Description: 8260D MSV 5030 Med Level
Client: Braun Intertec Corporation
Date: November 11, 2024

General Information:
3 samples were analyzed for EPA 8260D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 978555

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Batch Comments:

Chloromethane, bromomethane, chloroethane, and dichlorofluoromethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
- QC Batch: 978810

The continuing calibration verification was above the method acceptance limit for dichlorodifluoromethane, bromomethane, chloroethane, dichlorofluoromethane, trichlorofluoromethane, cis-1,2-dichloroethene, and 2,2-dichloropropane. Any detection for the analyte in the associated samples may have a high bias.
- QC Batch: 978810

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PROJECT NARRATIVE

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Method: **EPA 8260D**
Description: 8260D MSV 5030 Med Level
Client: Braun Intertec Corporation
Date: November 11, 2024

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Sample: HA-1 (3-4) **Lab ID: 10713906001** Collected: 10/29/24 16:00 Received: 10/30/24 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/kg	8.3	1	11/01/24 13:37	11/04/24 15:18		
Surrogates								
n-Triacontane (S)	82	%.	30-141	1	11/01/24 13:37	11/04/24 15:18		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	11.7	1	11/04/24 08:57	11/04/24 20:23		
Surrogates								
a,a,a-Trifluorotoluene (S)	115	%.	80-200	1	11/04/24 08:57	11/04/24 20:23	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**1.7**	mg/kg	1.0	1	11/04/24 14:20	11/05/24 13:54	7440-38-2	
Barium	**33.9**	mg/kg	0.52	1	11/04/24 14:20	11/05/24 13:54	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	11/04/24 14:20	11/05/24 13:54	7440-43-9	
Chromium	**7.1**	mg/kg	0.52	1	11/04/24 14:20	11/05/24 13:54	7440-47-3	
Lead	**5.5**	mg/kg	1.0	2	11/04/24 14:20	11/05/24 14:32	7439-92-1	
Selenium	ND	mg/kg	1.0	1	11/04/24 14:20	11/05/24 13:54	7782-49-2	
Silver	ND	mg/kg	0.52	1	11/04/24 14:20	11/05/24 13:54	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.019	1	11/04/24 14:42	11/06/24 11:13	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.4**	%	0.10	1		11/01/24 12:05		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	83-32-9	
Acenaphthylene	ND	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	208-96-8	
Anthracene	ND	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	120-12-7	
Benzo(a)anthracene	**0.018**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	56-55-3	
Benzo(a)pyrene	**0.017**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	50-32-8	
Benzo(b)fluoranthene	**0.025**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	205-99-2	
Benzo(g,h,i)perylene	**0.013**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	207-08-9	
Chrysene	**0.017**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	53-70-3	
Fluoranthene	**0.029**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	206-44-0	
Fluorene	ND	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.013**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	91-20-3	

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REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Sample: HA-1 (3-4) **Lab ID: 10713906001** Collected: 10/29/24 16:00 Received: 10/30/24 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Phenanthrene	**0.014**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	85-01-8	
Pyrene	**0.029**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.023**	mg/kg	0.011	1	10/31/24 12:47	11/05/24 03:34		
Surrogates								
2-Fluorobiphenyl (S)	68	%.	48-125	1	10/31/24 12:47	11/05/24 03:34	321-60-8	
p-Terphenyl-d14 (S)	82	%.	51-139	1	10/31/24 12:47	11/05/24 03:34	1718-51-0	
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	mg/kg	1.1	1	11/07/24 15:15	11/08/24 19:53	67-64-1	
Allyl chloride	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	107-05-1	
Benzene	ND	mg/kg	0.022	1	11/07/24 15:15	11/08/24 19:53	71-43-2	
Bromobenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	108-86-1	
Bromochloromethane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	74-97-5	
Bromodichloromethane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	75-27-4	
Bromoform	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	75-25-2	
Bromomethane	ND	mg/kg	0.55	1	11/07/24 15:15	11/08/24 19:53	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.28	1	11/07/24 15:15	11/08/24 19:53	78-93-3	
n-Butylbenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	56-23-5	
Chlorobenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	108-90-7	
Chloroethane	ND	mg/kg	0.55	1	11/07/24 15:15	11/08/24 19:53	75-00-3	
Chloroform	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	67-66-3	
Chloromethane	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.55	1	11/07/24 15:15	11/08/24 19:53	96-12-8	
Dibromochloromethane	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	106-93-4	
Dibromomethane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.55	1	11/07/24 15:15	11/08/24 19:53	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	594-20-7	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Sample: HA-1 (3-4) **Lab ID: 10713906001** Collected: 10/29/24 16:00 Received: 10/30/24 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,1-Dichloropropene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	60-29-7	
Ethylbenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.28	1	11/07/24 15:15	11/08/24 19:53	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	99-87-6	
Methylene Chloride	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.28	1	11/07/24 15:15	11/08/24 19:53	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	1634-04-4	
Naphthalene	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	91-20-3	
n-Propylbenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	103-65-1	
Styrene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	79-34-5	
Tetrachloroethene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.2	1	11/07/24 15:15	11/08/24 19:53	109-99-9	
Toluene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	79-00-5	
Trichloroethene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.22	1	11/07/24 15:15	11/08/24 19:53	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.055	1	11/07/24 15:15	11/08/24 19:53	108-67-8	
Vinyl chloride	ND	mg/kg	0.022	1	11/07/24 15:15	11/08/24 19:53	75-01-4	
Xylene (Total)	ND	mg/kg	0.17	1	11/07/24 15:15	11/08/24 19:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	101	%.	75-125	1	11/07/24 15:15	11/08/24 19:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	11/07/24 15:15	11/08/24 19:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125	1	11/07/24 15:15	11/08/24 19:53	2199-69-1	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Sample: HA-2 (1-2) **Lab ID: 10713906002** Collected: 10/29/24 16:30 Received: 10/30/24 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/kg	7.9	1	11/01/24 13:37	11/04/24 15:24		
Surrogates								
n-Triacontane (S)	70	%.	30-141	1	11/01/24 13:37	11/04/24 15:24		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	10.5	1	11/04/24 08:57	11/04/24 20:42		
Surrogates								
a,a,a-Trifluorotoluene (S)	116	%.	80-200	1	11/04/24 08:57	11/04/24 20:42	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**1.2**	mg/kg	0.99	1	11/04/24 14:20	11/05/24 14:02	7440-38-2	
Barium	**22.6**	mg/kg	0.49	1	11/04/24 14:20	11/05/24 14:02	7440-39-3	
Cadmium	ND	mg/kg	0.15	1	11/04/24 14:20	11/05/24 14:02	7440-43-9	
Chromium	**6.8**	mg/kg	0.49	1	11/04/24 14:20	11/05/24 14:02	7440-47-3	
Lead	**3.4**	mg/kg	0.99	2	11/04/24 14:20	11/05/24 14:43	7439-92-1	
Selenium	ND	mg/kg	0.99	1	11/04/24 14:20	11/05/24 14:02	7782-49-2	
Silver	ND	mg/kg	0.49	1	11/04/24 14:20	11/05/24 14:02	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.019	1	11/04/24 14:42	11/06/24 11:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**2.7**	%	0.10	1		11/01/24 12:05		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	83-32-9	
Acenaphthylene	ND	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	208-96-8	
Anthracene	ND	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	120-12-7	
Benzo(a)anthracene	**0.021**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	56-55-3	
Benzo(a)pyrene	**0.022**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	50-32-8	
Benzo(b)fluoranthene	**0.031**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	205-99-2	
Benzo(g,h,i)perylene	**0.017**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	207-08-9	
Chrysene	**0.019**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	53-70-3	
Fluoranthene	**0.029**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	206-44-0	
Fluorene	ND	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.017**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	193-39-5	
Naphthalene	ND	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	91-20-3	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Sample: HA-2 (1-2) **Lab ID: 10713906002** Collected: 10/29/24 16:30 Received: 10/30/24 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Phenanthrene	**0.014**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	85-01-8	
Pyrene	**0.029**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.029**	mg/kg	0.010	1	10/31/24 12:47	11/05/24 03:56		
Surrogates								
2-Fluorobiphenyl (S)	65	%.	48-125	1	10/31/24 12:47	11/05/24 03:56	321-60-8	
p-Terphenyl-d14 (S)	82	%.	51-139	1	10/31/24 12:47	11/05/24 03:56	1718-51-0	
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	mg/kg	1.0	1	11/07/24 15:15	11/08/24 20:09	67-64-1	
Allyl chloride	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	107-05-1	
Benzene	ND	mg/kg	0.021	1	11/07/24 15:15	11/08/24 20:09	71-43-2	
Bromobenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	108-86-1	
Bromochloromethane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	74-97-5	
Bromodichloromethane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	75-27-4	
Bromoform	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	75-25-2	
Bromomethane	ND	mg/kg	0.52	1	11/07/24 15:15	11/08/24 20:09	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.26	1	11/07/24 15:15	11/08/24 20:09	78-93-3	
n-Butylbenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	56-23-5	
Chlorobenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	108-90-7	
Chloroethane	ND	mg/kg	0.52	1	11/07/24 15:15	11/08/24 20:09	75-00-3	
Chloroform	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	67-66-3	
Chloromethane	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.52	1	11/07/24 15:15	11/08/24 20:09	96-12-8	
Dibromochloromethane	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	106-93-4	
Dibromomethane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.52	1	11/07/24 15:15	11/08/24 20:09	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	594-20-7	

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ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Sample: HA-2 (1-2) **Lab ID: 10713906002** Collected: 10/29/24 16:30 Received: 10/30/24 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,1-Dichloropropene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	60-29-7	
Ethylbenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.26	1	11/07/24 15:15	11/08/24 20:09	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	99-87-6	
Methylene Chloride	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.26	1	11/07/24 15:15	11/08/24 20:09	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	1634-04-4	
Naphthalene	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	91-20-3	
n-Propylbenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	103-65-1	
Styrene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	79-34-5	
Tetrachloroethene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.1	1	11/07/24 15:15	11/08/24 20:09	109-99-9	
Toluene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	79-00-5	
Trichloroethene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.21	1	11/07/24 15:15	11/08/24 20:09	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.052	1	11/07/24 15:15	11/08/24 20:09	108-67-8	
Vinyl chloride	ND	mg/kg	0.021	1	11/07/24 15:15	11/08/24 20:09	75-01-4	
Xylene (Total)	ND	mg/kg	0.16	1	11/07/24 15:15	11/08/24 20:09	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%.	75-125	1	11/07/24 15:15	11/08/24 20:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	11/07/24 15:15	11/08/24 20:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1	11/07/24 15:15	11/08/24 20:09	2199-69-1	

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ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Sample: Trip Blank **Lab ID: 10713906003** Collected: Received: 10/30/24 10:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	10.0	1	11/04/24 08:57	11/04/24 21:01		
Surrogates								
a,a,a-Trifluorotoluene (S)	114	%.	80-200	1	11/04/24 08:57	11/04/24 21:01	98-08-8	
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	mg/kg	1.0	1	11/07/24 15:15	11/08/24 17:50	67-64-1	
Allyl chloride	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	107-05-1	
Benzene	ND	mg/kg	0.020	1	11/07/24 15:15	11/08/24 17:50	71-43-2	
Bromobenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	108-86-1	
Bromochloromethane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	74-97-5	
Bromodichloromethane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	75-27-4	
Bromoform	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	75-25-2	
Bromomethane	ND	mg/kg	0.50	1	11/07/24 15:15	11/08/24 17:50	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.25	1	11/07/24 15:15	11/08/24 17:50	78-93-3	
n-Butylbenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	56-23-5	
Chlorobenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	108-90-7	
Chloroethane	ND	mg/kg	0.50	1	11/07/24 15:15	11/08/24 17:50	75-00-3	
Chloroform	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	67-66-3	
Chloromethane	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.50	1	11/07/24 15:15	11/08/24 17:50	96-12-8	
Dibromochloromethane	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	106-93-4	
Dibromomethane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.50	1	11/07/24 15:15	11/08/24 17:50	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	10061-02-6	

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1700 Elm Street
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(612)607-1700

ANALYTICAL RESULTS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Sample: Trip Blank **Lab ID: 10713906003** Collected: Received: 10/30/24 10:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Diethyl ether (Ethyl ether)	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	60-29-7	
Ethylbenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.25	1	11/07/24 15:15	11/08/24 17:50	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	99-87-6	
Methylene Chloride	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.25	1	11/07/24 15:15	11/08/24 17:50	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	1634-04-4	
Naphthalene	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	91-20-3	
n-Propylbenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	103-65-1	
Styrene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	79-34-5	
Tetrachloroethene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.0	1	11/07/24 15:15	11/08/24 17:50	109-99-9	
Toluene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	79-00-5	
Trichloroethene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.20	1	11/07/24 15:15	11/08/24 17:50	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.050	1	11/07/24 15:15	11/08/24 17:50	108-67-8	
Vinyl chloride	ND	mg/kg	0.020	1	11/07/24 15:15	11/08/24 17:50	75-01-4	
Xylene (Total)	ND	mg/kg	0.15	1	11/07/24 15:15	11/08/24 17:50	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%.	75-125	1	11/07/24 15:15	11/08/24 17:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	11/07/24 15:15	11/08/24 17:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1	11/07/24 15:15	11/08/24 17:50	2199-69-1	

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

QC Batch: 977570
QC Batch Method: EPA 5030 Medium Soil
Analysis Method: WI MOD GRO
Analysis Description: WIGRO Solid GCV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713906001, 10713906002, 10713906003

METHOD BLANK: 5109387 Matrix: Solid
Associated Lab Samples: 10713906001, 10713906002, 10713906003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	11/04/24 18:46	
a,a,a-Trifluorotoluene (S)	%.	114	80-200	11/04/24 18:46	

LABORATORY CONTROL SAMPLE & LCSD: 5109388 5109389

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	42.7	42.4	85	85	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%.				111	113	80-200			

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

QC Batch: 977534
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713906001, 10713906002

METHOD BLANK: 5109306 Matrix: Solid
Associated Lab Samples: 10713906001, 10713906002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.017	11/06/24 11:09	

LABORATORY CONTROL SAMPLE: 5109307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.48	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5109308 5109309

Parameter	Units	10713906001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.54	0.48	0.54	0.48	99	100	80-120	13	20	

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

QC Batch: 977524
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713906001, 10713906002

METHOD BLANK: 5109262 Matrix: Solid
Associated Lab Samples: 10713906001, 10713906002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.99	11/05/24 13:47	
Barium	mg/kg	ND	0.49	11/05/24 13:47	
Cadmium	mg/kg	ND	0.15	11/05/24 13:47	
Chromium	mg/kg	ND	0.49	11/05/24 13:47	
Lead	mg/kg	ND	0.49	11/05/24 13:47	
Selenium	mg/kg	ND	0.99	11/05/24 13:47	
Silver	mg/kg	ND	0.49	11/05/24 13:47	

LABORATORY CONTROL SAMPLE: 5109263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48.5	45.9	95	80-120	
Barium	mg/kg	48.5	49.9	103	80-120	
Cadmium	mg/kg	48.5	49.1	101	80-120	
Chromium	mg/kg	48.5	50.1	103	80-120	
Lead	mg/kg	48.5	49.2	101	80-120	
Selenium	mg/kg	48.5	43.6	90	80-120	
Silver	mg/kg	24.2	22.8	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5109264 5109265

Parameter	Units	10713906001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	1.7	52.8	49.6	49.0	46.0	90	90	75-125	6	20	
Barium	mg/kg	33.9	52.8	49.6	83.5	78.0	94	89	75-125	7	20	
Cadmium	mg/kg	ND	52.8	49.6	46.6	44.5	88	90	75-125	5	20	
Chromium	mg/kg	7.1	52.8	49.6	57.5	58.0	95	103	75-125	1	20	
Lead	mg/kg	5.5	52.8	49.6	52.9	51.0	90	92	75-125	4	20	
Selenium	mg/kg	ND	52.8	49.6	45.9	42.9	87	86	75-125	7	20	
Silver	mg/kg	ND	26.3	24.7	23.9	22.6	90	91	75-125	6	20	

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

QC Batch: 977276
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713906001, 10713906002

SAMPLE DUPLICATE: 5107771

Parameter	Units	10714038016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.5	4.4	2	30	N2

SAMPLE DUPLICATE: 5107817

Parameter	Units	10713798003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.8	11.2	4	30	N2

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

QC Batch: 978555
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 5030 Med Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713906001, 10713906002, 10713906003

METHOD BLANK: 5113427 Matrix: Solid
Associated Lab Samples: 10713906001, 10713906002, 10713906003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.050	11/08/24 17:19	
1,1,1-Trichloroethane	mg/kg	ND	0.050	11/08/24 17:19	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.050	11/08/24 17:19	
1,1,2-Trichloroethane	mg/kg	ND	0.050	11/08/24 17:19	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.20	11/08/24 17:19	
1,1-Dichloroethane	mg/kg	ND	0.050	11/08/24 17:19	
1,1-Dichloroethene	mg/kg	ND	0.050	11/08/24 17:19	
1,1-Dichloropropene	mg/kg	ND	0.050	11/08/24 17:19	
1,2,3-Trichlorobenzene	mg/kg	ND	0.050	11/08/24 17:19	
1,2,3-Trichloropropane	mg/kg	ND	0.20	11/08/24 17:19	
1,2,4-Trichlorobenzene	mg/kg	ND	0.050	11/08/24 17:19	
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	11/08/24 17:19	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.50	11/08/24 17:19	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.050	11/08/24 17:19	
1,2-Dichlorobenzene	mg/kg	ND	0.050	11/08/24 17:19	
1,2-Dichloroethane	mg/kg	ND	0.050	11/08/24 17:19	
1,2-Dichloropropane	mg/kg	ND	0.050	11/08/24 17:19	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	11/08/24 17:19	
1,3-Dichlorobenzene	mg/kg	ND	0.050	11/08/24 17:19	
1,3-Dichloropropane	mg/kg	ND	0.050	11/08/24 17:19	
1,4-Dichlorobenzene	mg/kg	ND	0.050	11/08/24 17:19	
2,2-Dichloropropane	mg/kg	ND	0.20	11/08/24 17:19	
2-Butanone (MEK)	mg/kg	ND	0.25	11/08/24 17:19	
2-Chlorotoluene	mg/kg	ND	0.050	11/08/24 17:19	
4-Chlorotoluene	mg/kg	ND	0.050	11/08/24 17:19	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.25	11/08/24 17:19	
Acetone	mg/kg	ND	1.0	11/08/24 17:19	
Allyl chloride	mg/kg	ND	0.20	11/08/24 17:19	
Benzene	mg/kg	ND	0.020	11/08/24 17:19	
Bromobenzene	mg/kg	ND	0.050	11/08/24 17:19	
Bromochloromethane	mg/kg	ND	0.050	11/08/24 17:19	
Bromodichloromethane	mg/kg	ND	0.050	11/08/24 17:19	
Bromoform	mg/kg	ND	0.20	11/08/24 17:19	
Bromomethane	mg/kg	ND	0.50	11/08/24 17:19	
Carbon tetrachloride	mg/kg	ND	0.050	11/08/24 17:19	
Chlorobenzene	mg/kg	ND	0.050	11/08/24 17:19	
Chloroethane	mg/kg	ND	0.50	11/08/24 17:19	
Chloroform	mg/kg	ND	0.050	11/08/24 17:19	
Chloromethane	mg/kg	ND	0.20	11/08/24 17:19	
cis-1,2-Dichloroethene	mg/kg	ND	0.050	11/08/24 17:19	

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QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

METHOD BLANK: 5113427 Matrix: Solid
Associated Lab Samples: 10713906001, 10713906002, 10713906003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.050	11/08/24 17:19	
Dibromochloromethane	mg/kg	ND	0.20	11/08/24 17:19	
Dibromomethane	mg/kg	ND	0.050	11/08/24 17:19	
Dichlorodifluoromethane	mg/kg	ND	0.20	11/08/24 17:19	
Dichlorofluoromethane	mg/kg	ND	0.50	11/08/24 17:19	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.20	11/08/24 17:19	
Ethylbenzene	mg/kg	ND	0.050	11/08/24 17:19	
Hexachloro-1,3-butadiene	mg/kg	ND	0.25	11/08/24 17:19	
Isopropylbenzene (Cumene)	mg/kg	ND	0.050	11/08/24 17:19	
Methyl-tert-butyl ether	mg/kg	ND	0.050	11/08/24 17:19	
Methylene Chloride	mg/kg	ND	0.20	11/08/24 17:19	
n-Butylbenzene	mg/kg	ND	0.050	11/08/24 17:19	
n-Propylbenzene	mg/kg	ND	0.050	11/08/24 17:19	
Naphthalene	mg/kg	ND	0.20	11/08/24 17:19	
p-Isopropyltoluene	mg/kg	ND	0.050	11/08/24 17:19	
sec-Butylbenzene	mg/kg	ND	0.050	11/08/24 17:19	
Styrene	mg/kg	ND	0.050	11/08/24 17:19	
tert-Butylbenzene	mg/kg	ND	0.050	11/08/24 17:19	
Tetrachloroethene	mg/kg	ND	0.050	11/08/24 17:19	
Tetrahydrofuran	mg/kg	ND	2.0	11/08/24 17:19	
Toluene	mg/kg	ND	0.050	11/08/24 17:19	
trans-1,2-Dichloroethene	mg/kg	ND	0.050	11/08/24 17:19	
trans-1,3-Dichloropropene	mg/kg	ND	0.050	11/08/24 17:19	
Trichloroethene	mg/kg	ND	0.050	11/08/24 17:19	
Trichlorofluoromethane	mg/kg	ND	0.20	11/08/24 17:19	
Vinyl chloride	mg/kg	ND	0.020	11/08/24 17:19	
Xylene (Total)	mg/kg	ND	0.15	11/08/24 17:19	
1,2-Dichlorobenzene-d4 (S)	%.	100	75-125	11/08/24 17:19	
4-Bromofluorobenzene (S)	%.	102	75-125	11/08/24 17:19	
Toluene-d8 (S)	%.	100	75-125	11/08/24 17:19	

LABORATORY CONTROL SAMPLE & LCSD: 5113428 5113429

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	1	1.0	0.99	103	99	70-125	4	20	
1,1,1-Trichloroethane	mg/kg	1	1.0	0.96	104	96	72-125	8	20	
1,1,2,2-Tetrachloroethane	mg/kg	1	0.99	0.94	99	94	56-138	5	20	
1,1,2-Trichloroethane	mg/kg	1	0.96	0.95	96	95	75-125	1	20	
1,1,2-Trichlorotrifluoroethane	mg/kg	1	0.98	0.91	98	91	66-125	8	20	
1,1-Dichloroethane	mg/kg	1	1.0	0.92	100	92	75-125	8	20	
1,1-Dichloroethene	mg/kg	1	1.1	0.98	106	98	72-125	7	20	
1,1-Dichloropropene	mg/kg	1	1.1	0.95	108	95	73-125	12	20	
1,2,3-Trichlorobenzene	mg/kg	1	1.0	1.0	102	103	69-128	1	20	
1,2,3-Trichloropropane	mg/kg	1	0.98	0.92	98	92	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

LABORATORY CONTROL SAMPLE & LCSD: 5113428 5113429

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	1	1.0	1.0	101	100	65-131	1	20	
1,2,4-Trimethylbenzene	mg/kg	1	0.98	0.95	98	95	66-129	3	20	
1,2-Dibromo-3-chloropropane	mg/kg	1	0.90	0.99	90	99	59-125	9	20	
1,2-Dibromoethane (EDB)	mg/kg	1	0.94	0.89	94	89	75-125	5	20	
1,2-Dichlorobenzene	mg/kg	1	1.1	1.0	105	100	75-125	4	20	
1,2-Dichloroethane	mg/kg	1	1.1	1.0	108	102	75-126	6	20	
1,2-Dichloropropane	mg/kg	1	1.0	0.97	100	97	75-125	3	20	
1,3,5-Trimethylbenzene	mg/kg	1	0.98	0.96	98	96	66-129	2	20	
1,3-Dichlorobenzene	mg/kg	1	0.96	1.0	96	103	70-125	7	20	
1,3-Dichloropropane	mg/kg	1	1.0	1.0	104	101	74-125	3	20	
1,4-Dichlorobenzene	mg/kg	1	1.0	0.97	100	97	68-125	3	20	
2,2-Dichloropropane	mg/kg	1	0.96	0.88	96	88	53-125	9	20	
2-Butanone (MEK)	mg/kg	5	5.1	4.8	102	96	75-125	6	20	
2-Chlorotoluene	mg/kg	1	1.0	0.97	101	97	68-127	4	20	
4-Chlorotoluene	mg/kg	1	0.98	0.95	98	95	70-126	3	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	5	5.1	4.8	102	96	73-130	6	20	
Acetone	mg/kg	5	5.0	4.7	100	94	72-125	6	20	
Allyl chloride	mg/kg	1	0.94	0.84	94	84	65-129	11	20	
Benzene	mg/kg	1	1.0	0.97	105	97	75-125	7	20	
Bromobenzene	mg/kg	1	1.1	1.0	109	103	73-125	5	20	
Bromochloromethane	mg/kg	1	1.1	1.1	108	106	75-125	1	20	
Bromodichloromethane	mg/kg	1	1.1	0.97	106	97	71-125	9	20	
Bromoform	mg/kg	1	0.98	0.95	98	95	60-125	3	20	
Bromomethane	mg/kg	1	1.1	0.93	107	93	60-125	14	20	
Carbon tetrachloride	mg/kg	1	1.0	0.96	103	96	63-126	7	20	
Chlorobenzene	mg/kg	1	0.93	0.87	93	87	75-125	6	20	
Chloroethane	mg/kg	1	1.0	0.93	102	93	68-127	9	20	
Chloroform	mg/kg	1	1.1	0.99	107	99	73-125	7	20	
Chloromethane	mg/kg	1	1.0	0.95	102	95	61-126	7	20	
cis-1,2-Dichloroethene	mg/kg	1	1.1	1.0	111	104	75-125	6	20	
cis-1,3-Dichloropropene	mg/kg	1	0.99	0.97	99	97	70-125	2	20	
Dibromochloromethane	mg/kg	1	1.1	0.99	107	99	69-125	7	20	
Dibromomethane	mg/kg	1	1.0	1.1	103	106	71-125	3	20	
Dichlorodifluoromethane	mg/kg	1	1.0	0.99	103	99	54-125	4	20	
Dichlorofluoromethane	mg/kg	1	1.1	1.0	113	101	68-140	11	20	
Diethyl ether (Ethyl ether)	mg/kg	1	0.99	1.0	99	100	75-125	1	20	
Ethylbenzene	mg/kg	1	0.98	0.93	98	93	70-125	6	20	
Hexachloro-1,3-butadiene	mg/kg	1	0.99	1.0	99	101	56-144	2	20	
Isopropylbenzene (Cumene)	mg/kg	1	1.0	0.99	102	99	72-125	2	20	
Methyl-tert-butyl ether	mg/kg	1	1.0	0.98	104	98	75-125	5	20	
Methylene Chloride	mg/kg	1	1.1	0.97	105	97	75-125	8	20	
n-Butylbenzene	mg/kg	1	0.96	0.92	96	92	59-125	5	20	
n-Propylbenzene	mg/kg	1	0.97	0.95	97	95	70-131	2	20	
Naphthalene	mg/kg	1	0.99	1.0	99	102	67-126	3	20	
p-Isopropyltoluene	mg/kg	1	0.96	0.98	96	98	67-129	1	20	
sec-Butylbenzene	mg/kg	1	1.0	1.0	101	102	69-130	0	20	
Styrene	mg/kg	1	1.0	0.98	101	98	73-125	3	20	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

LABORATORY CONTROL SAMPLE & LCSD: 5113428 5113429

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
tert-Butylbenzene	mg/kg	1	1.0	0.93	101	93	68-129	8	20	
Tetrachloroethene	mg/kg	1	1.0	0.98	102	98	65-125	4	20	
Tetrahydrofuran	mg/kg	5	5.6	5.3	111	107	75-125	4	20	
Toluene	mg/kg	1	0.97	0.91	97	91	72-125	6	20	
trans-1,2-Dichloroethene	mg/kg	1	1.0	0.94	104	94	72-125	10	20	
trans-1,3-Dichloropropene	mg/kg	1	0.92	0.85	92	85	72-125	8	20	
Trichloroethene	mg/kg	1	1.1	1.0	107	105	73-127	2	20	
Trichlorofluoromethane	mg/kg	1	1.0	0.94	103	94	51-150	10	20	
Vinyl chloride	mg/kg	1	0.98	0.92	98	92	64-128	6	20	
Xylene (Total)	mg/kg	3	3.0	3.0	99	100	70-125	1	20	
1,2-Dichlorobenzene-d4 (S)	%.				104	102	75-125			
4-Bromofluorobenzene (S)	%.				106	101	75-125			
Toluene-d8 (S)	%.				102	96	75-125			

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(612)607-1700

QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

QC Batch: 977101
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713906001, 10713906002

METHOD BLANK: 5106410 Matrix: Solid
Associated Lab Samples: 10713906001, 10713906002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	mg/kg	ND	0.010	11/04/24 23:12	
Acenaphthylene	mg/kg	ND	0.010	11/04/24 23:12	
Anthracene	mg/kg	ND	0.010	11/04/24 23:12	
Benzo(a)anthracene	mg/kg	ND	0.010	11/04/24 23:12	
Benzo(a)pyrene	mg/kg	ND	0.010	11/04/24 23:12	
Benzo(b)fluoranthene	mg/kg	ND	0.010	11/04/24 23:12	
Benzo(g,h,i)perylene	mg/kg	ND	0.010	11/04/24 23:12	
Benzo(k)fluoranthene	mg/kg	ND	0.010	11/04/24 23:12	
Chrysene	mg/kg	ND	0.010	11/04/24 23:12	
Dibenz(a,h)anthracene	mg/kg	ND	0.010	11/04/24 23:12	
Fluoranthene	mg/kg	ND	0.010	11/04/24 23:12	
Fluorene	mg/kg	ND	0.010	11/04/24 23:12	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.010	11/04/24 23:12	
Naphthalene	mg/kg	ND	0.010	11/04/24 23:12	
Phenanthrene	mg/kg	ND	0.010	11/04/24 23:12	
Pyrene	mg/kg	ND	0.010	11/04/24 23:12	
2-Fluorobiphenyl (S)	%.	75	48-125	11/04/24 23:12	
p-Terphenyl-d14 (S)	%.	84	51-139	11/04/24 23:12	

LABORATORY CONTROL SAMPLE: 5106411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	mg/kg	0.1	0.072	72	45-125	
Acenaphthylene	mg/kg	0.1	0.069	69	43-125	
Anthracene	mg/kg	0.1	0.073	73	59-125	
Benzo(a)anthracene	mg/kg	0.1	0.084	84	66-125	
Benzo(a)pyrene	mg/kg	0.1	0.088	88	65-125	
Benzo(b)fluoranthene	mg/kg	0.1	0.088	88	61-125	
Benzo(g,h,i)perylene	mg/kg	0.1	0.081	81	64-125	
Benzo(k)fluoranthene	mg/kg	0.1	0.089	89	65-125	
Chrysene	mg/kg	0.1	0.079	79	63-125	
Dibenz(a,h)anthracene	mg/kg	0.1	0.084	84	63-125	
Fluoranthene	mg/kg	0.1	0.081	81	62-125	
Fluorene	mg/kg	0.1	0.073	73	51-125	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.081	81	61-125	
Naphthalene	mg/kg	0.1	0.070	70	37-125	
Phenanthrene	mg/kg	0.1	0.077	77	60-125	
Pyrene	mg/kg	0.1	0.089	89	65-125	
2-Fluorobiphenyl (S)	%.			70	48-125	

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(612)607-1700

QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

LABORATORY CONTROL SAMPLE: 5106411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			79	51-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5106412 5106413

Parameter	Units	10713895001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	mg/kg	ND	0.11	0.11	0.080	0.089	76	85	30-131	11	30	
Acenaphthylene	mg/kg	ND	0.11	0.11	0.075	0.076	71	72	36-125	2	30	
Anthracene	mg/kg	0.012	0.11	0.11	0.091	0.10	75	86	35-131	12	30	
Benzo(a)anthracene	mg/kg	0.064	0.11	0.11	0.16	0.17	95	99	30-150	3	30	
Benzo(a)pyrene	mg/kg	0.054	0.11	0.11	0.13	0.16	76	98	30-148	16	30	
Benzo(b)fluoranthene	mg/kg	0.12	0.11	0.11	0.22	0.24	99	118	30-150	9	30	
Benzo(g,h,i)perylene	mg/kg	0.073	0.11	0.11	0.14	0.16	66	82	34-142	11	30	
Benzo(k)fluoranthene	mg/kg	0.046	0.11	0.11	0.12	0.12	72	72	30-150	0	30	
Chrysene	mg/kg	0.069	0.11	0.11	0.15	0.16	75	86	30-150	7	30	
Dibenz(a,h)anthracene	mg/kg	ND	0.11	0.11	0.083	0.088	79	84	50-125	6	30	
Fluoranthene	mg/kg	0.092	0.11	0.11	0.17	0.22	73	121	30-150	26	30	
Fluorene	mg/kg	ND	0.11	0.11	0.089	0.095	85	90	35-128	6	30	
Indeno(1,2,3-cd)pyrene	mg/kg	0.061	0.11	0.11	0.13	0.15	66	80	30-150	10	30	
Naphthalene	mg/kg	0.012	0.11	0.11	0.074	0.075	59	60	30-125	2	30	
Phenanthrene	mg/kg	0.056	0.11	0.11	0.15	0.17	88	112	30-150	16	30	
Pyrene	mg/kg	0.085	0.11	0.11	0.19	0.22	101	131	30-150	15	30	
2-Fluorobiphenyl (S)	%.						63	67	48-125			
p-Terphenyl-d14 (S)	%.						82	78	51-139			

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

QC Batch: 977414
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO Solid GCV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713906001, 10713906002

METHOD BLANK: 5108097 Matrix: Solid
Associated Lab Samples: 10713906001, 10713906002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	ND	10.0	11/04/24 13:55	
n-Triacontane (S)	%.	73	30-141	11/04/24 13:55	

LABORATORY CONTROL SAMPLE & LCSD: 5108098 5108099

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/kg	80	65.2	63.7	82	80	53-125	2	20	
n-Triacontane (S)	%.				87	83	30-141			

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QUALIFIERS

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 977662

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 978810

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

[1] Chloromethane, bromomethane, chloroethane, and dichlorofluoromethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

[2] The continuing calibration verification was above the method acceptance limit for dichlorodifluoromethane, bromomethane, chloroethane, dichlorofluoromethane, trichlorofluoromethane, cis-1,2-dichloroethene, and 2,2-dichloropropane. Any detection for the analyte in the associated samples may have a high bias.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1608280.02 Nova Classical
Pace Project No.: 10713906

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10713906001	**HA-1 (3-4)**	WI MOD DRO	977414	WI MOD DRO	977738
10713906002	**HA-2 (1-2)**	WI MOD DRO	977414	WI MOD DRO	977738
10713906001	**HA-1 (3-4)**	EPA 5030 Medium Soil	977570	WI MOD GRO	977662
10713906002	**HA-2 (1-2)**	EPA 5030 Medium Soil	977570	WI MOD GRO	977662
10713906003	**Trip Blank**	EPA 5030 Medium Soil	977570	WI MOD GRO	977662
10713906001	**HA-1 (3-4)**	EPA 3050B	977524	EPA 6010D	977870
10713906002	**HA-2 (1-2)**	EPA 3050B	977524	EPA 6010D	977870
10713906001	**HA-1 (3-4)**	EPA 7471B	977534	EPA 7471B	977851
10713906002	**HA-2 (1-2)**	EPA 7471B	977534	EPA 7471B	977851
10713906001	**HA-1 (3-4)**	ASTM D2974	977276		
10713906002	**HA-2 (1-2)**	ASTM D2974	977276		
10713906001	**HA-1 (3-4)**	EPA 3546	977101	EPA 8270E by SIM	977777
10713906002	**HA-2 (1-2)**	EPA 3546	977101	EPA 8270E by SIM	977777
10713906001	**HA-1 (3-4)**	EPA 5035/5030B	978555	EPA 8260D	978810
10713906002	**HA-2 (1-2)**	EPA 5035/5030B	978555	EPA 8260D	978810
10713906003	**Trip Blank**	EPA 5035/5030B	978555	EPA 8260D	978810

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BRAUN INTERTEC

Braun Intertec EDGE Chain-of-Custody Form

Chain-of-custody form is a legal document. Please complete all applicable fields.

Lab Work Order Sticker

PROJECT INFORMATION			
Project No.:	B1608280.02	MPCA Site ID:	VP8804
Project Name:	Nova Classical Academy	MPCA Task Code:	
Project Manager:	Ken Larsen	MDH Program Code:	
PM Email:	KLarsen@braunintertec.com	MPCA WO No.:	
PM Phone No.:	612-599-1704	Template/Profile:	T# 35100
CC Name & Email:	Ben Fedje / BFedje@braunintertec.com	Prelogin/Bottle Order:	P#

LABORATORY			
Lab Name:	Pace National	Turn-Around Time:	☒ Standard ☐ **RUSH**
Lab Address:	12065 Lebanon Road	Date Requested:	
	Mt Juliet, TN 37122	Deliverable(s):	☐ Level II ☐ Level III ☐ Level IV
EPA Lab ID:		Send lab data file to:	☒ Braun Intertec ☐ MPCA
Potential Hazard?	☒ No ☐ Yes	Billing Rate:	☒ Standard ☐ MPCA
If yes, specify in Comments field.			☐ Petrofund ☐ Other:

SAMPLE TYPES
Sample = Sample
QC-FR = Duplicate
QC-FB = Field blank
QC-EB = Equipment blank
QC-TB = Trip blank
S-IDW = Inv. derived waste
QC-BLANK for LUI for QC-FB, QC-EB, QC-TB, S-IDW.

SAMPLING METHODS
SOILBORI = Subsurface soil from boring
SHALLSOIL = Surface soil
WELL-SUBMERS = Submersible pump
WELL-NONSUBMERS = Nonsubmersible pump
WELL-BAIL = Bailer
SW-GAS = Any soil vapor, indoor, or outdoor air
OTHER = Any other sampling method(s)
QC-BLANK = QC-FB, QC-EB, QC-TB, S-IDW

LAB MATRICES
SD = Soil, sediment, solid
NW = Nonpotable water
DW = Drinking water
AR = Air, gas, vapor
BL = Biological material
TS = Tissue
OT = Other
FB, EB, TB must have Lab Matrix

FIELD MATRICES
Soil-Sub = Subsurface soil
Soil-Surf = Surface soil
Wtr-Ground = Groundwater
Wtr-Drink = Drinking water
Gas-Soil = Soil gas/vapor
Air-Indoor = Indoor air
Air-Ambnt = Outdoor air
QC-BLANK for FB, EB, TB, IDW

List preservative used for each analysis; if n/a write "None". If soil and water samples have different preservatives for the same analysis, use two columns.

Field-filtered, Y or N

LUI	Sample Name	Sample Type	Start Date mm/dd/yyyy	Start Time 24-hr hh:mm	Depth Start	Depth End	Depth Units	End Date mm/dd/yyyy	End Time 24-hr hh:mm	Sampling Method	Lab Matrix	Field Matrix	AIS	Comments	# of Cont.	Preserv	Analysis	FF	VOCs by 8260	GRO by WDNR	DRO w/silica gel cleanup by WDNR	PAHs by 8270	8 RCRA Metals by 6010 and 7471	Moisture	Lab Sample No.	#
																MeOH			MeOH	None	None	None	None	None		
2001020289	HA-1 (3-4)	Sample	10/29/2024	16:00	3	4	ft			SOILBORI	SD	Soil-Sub			9			X	X	X	X	X	X	X	001	1
2001020290	HA-2 (1-2)	Sample	10/29/2024	16:30	1	2	ft			SOILBORI	SD	Soil-Sub			9			X	X	X	X	X	X	X	002	2
																										3
																										4
																										5
																										6
																										7
																										8
																										9
																										10

WO# : 10713906

10713906

Sampler's Name: Ben Fedje	Relinquished by (name):	Company: Braun	Date/Time: 10/29/24 18:30	Received By:	Company: Pace	Date/Time: 0930 10/30/24	Comments:	No. of Coolers/Boxes: 2
Sampler's Phone: 651-387-6840	Relinquished by:	Company: Pace	Date/Time: 10/30/24 1000	Received By:	Company:	Date/Time: 10/30/24 950		
Sampler's Signature:	Relinquished by:	Company:	Date/Time: 10/30/24 1050	Received By: Carey/Pace	Company: 10/30/24	Date/Time: 10:50		Page 2 of 2

Temp: 1.3, 1.4

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: Braun Intertec PROJECT #: WO#: 10713906

PM: BGB Due Date: 11/08/24

CLIENT: Braun-BLM

COURIER: ☐ Client ☐ Commercial ☐ FedEx ☑ Pace ☐ SpeeDee ☐ UPS ☐ USPS

TRACKING NUMBER: _____ ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☑ NO Seals Intact: ☐ YES ☑ NO Biological Tissue Frozen: ☐ YES ☐ NO ☑ N/A

Packing Material: ☑ Bubble Bags ☑ Bubble Wrap ☐ None ☐ Other Temp Blank: ☑ YES ☐ NO Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☑ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☐ YES ☑ NO	Were All Container Temps taken: ☐ YES ☐ NO ☑ N/A
Correction Factor: -0.3 Cooler Temp Read w/Temp Blank: 1.6, 1.7 °C	Average Corrected Temp (no Temp Blank Only): _____ °C
Cooler Temp Corrected w/Temp Blank: 1.3, 1.4 °C	☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container
NOTE: Temp should be above freezing to 6°C.	
USDA Regulated Soil: ☐ N/A -- Water Sample/Other (describe): _____	Initials & Date of Person Examining Contents: CRL 10/30/24
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☑ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out?	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☑	☐	☐	3.
Samples Arrived within Hold Time?	☑	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: _____
Rush Turn Around Time Requested?	☐	☑		6.
Sufficient Sample Volume?	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☑ Soil ☐ Water ☐ Other	☑	☐		11. **If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12. Sample #:
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	☐ ☑	☐	☑ ☐	☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ Zinc Acetate Positive for Residual Chlorine: ☐ YES ☐ NO pH Paper Lot #
NOTE: If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs.				Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip ☐ See Exceptions form ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container?	☐	☐	☑	13.
Extra labels present on soil VOA or WIDRO containers?	☐	☑	☐	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☐	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☑	☐	☐	15. 2
Trip Blank Custody Seals Present?	☑	☐	☐	Pace Trip Blank Lot # (if purchased): 072924-3

CLIENT NOTIFICATION / RESOLUTION **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Sydni Harrison Date: 11/11/2024

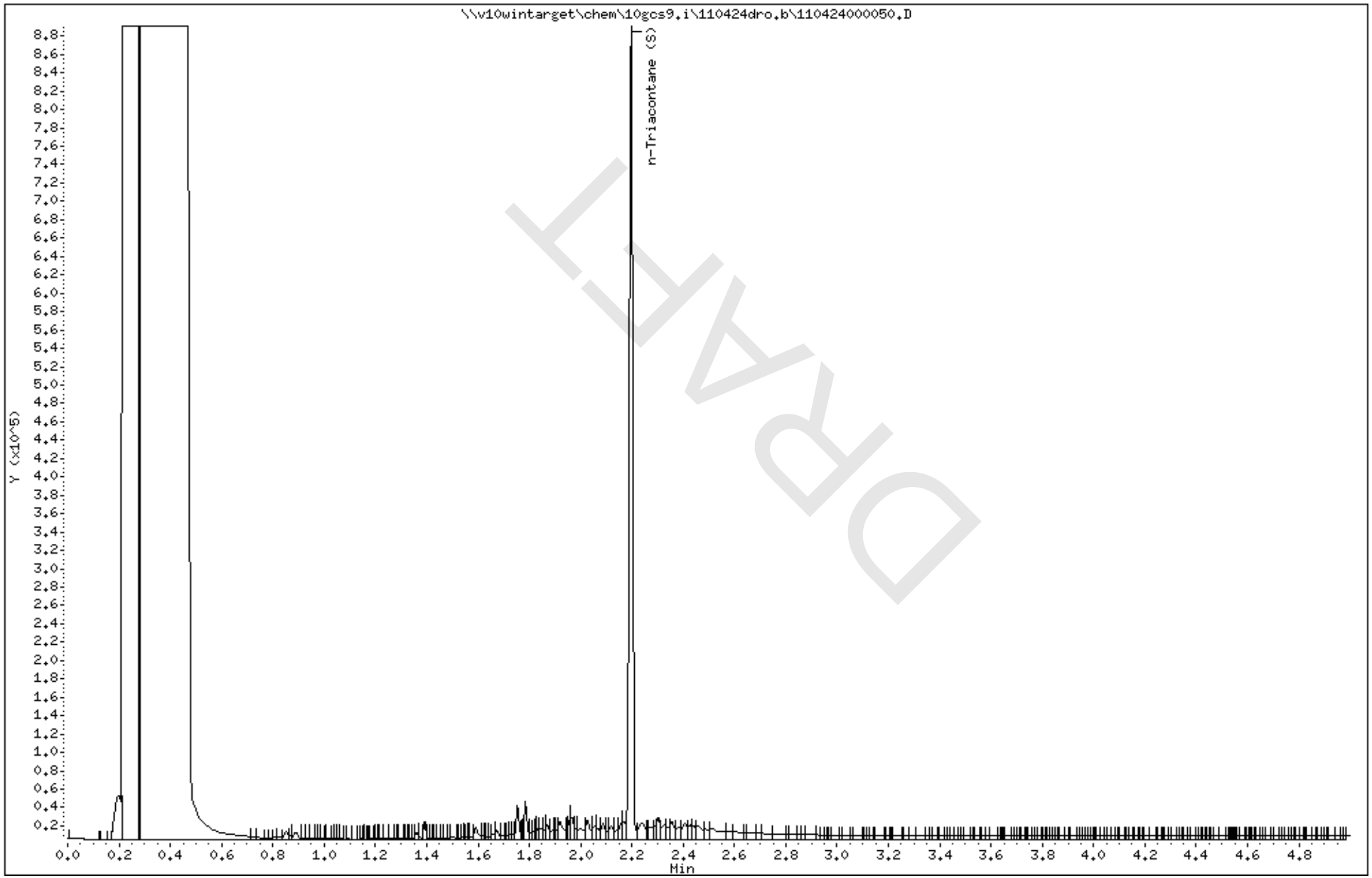
NOTE: *When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

Labeled By: CRL Line: 2

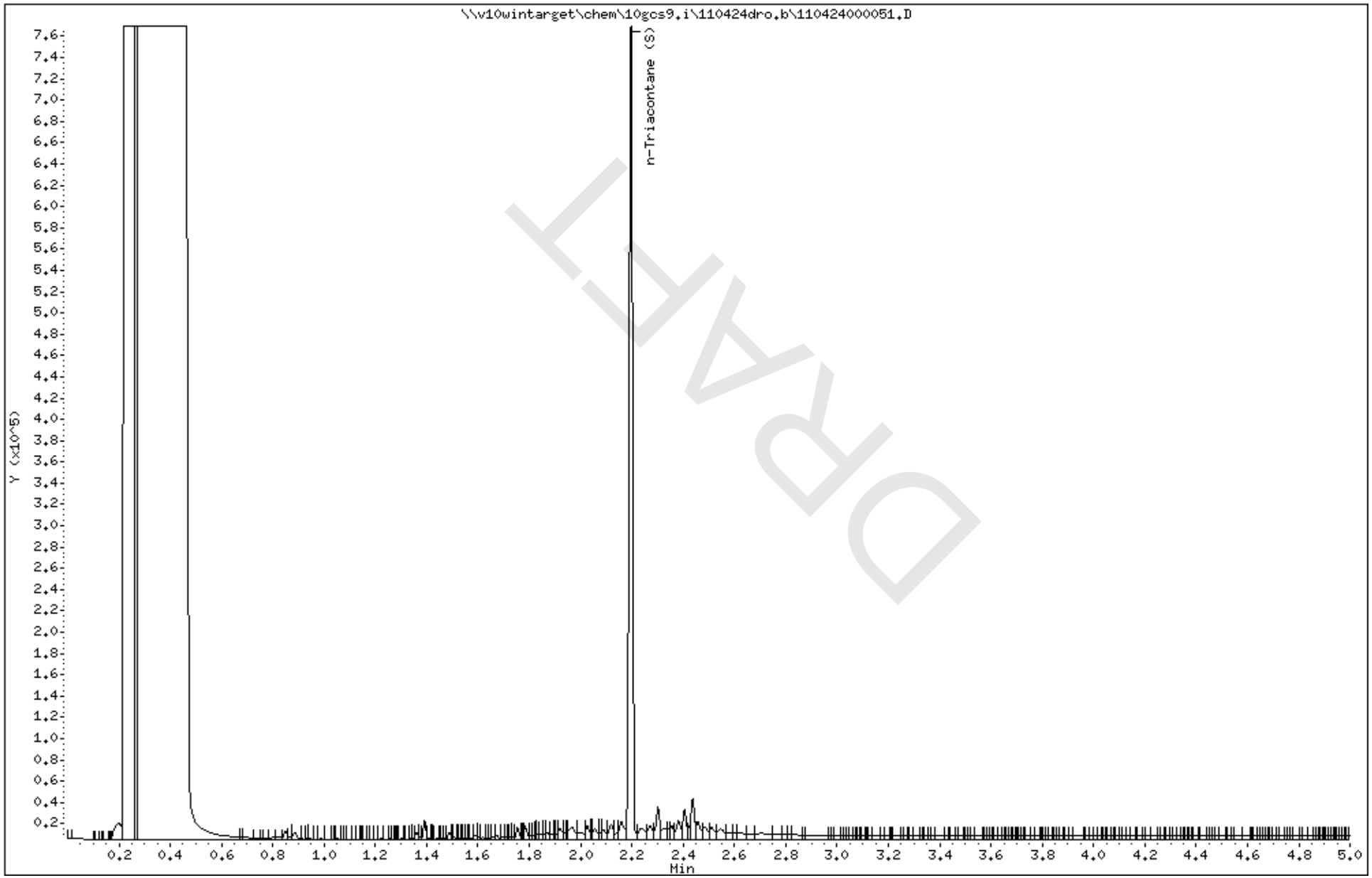
DRAFT

Data File: \\v10wintarget\chem\10gcs9.i\110424dro.b\110424000050.D
Date : 04-NOV-2024 15:18
Client ID: HA-1 (3-4)
Sample Info: 10713906001
Volume Injected (uL): 1.0
Column phase: DB-5-US24230001

Instrument: 10gcs9.i
Operator: TT2
Column diameter: 0.32



Data File: \\v10wintarget\chem\10gcs9.i\110424dro.b\110424000051.D
Date : 04-NOV-2024 15:24
Client ID: HA-2 (1-2)
Instrument: 10gcs9.i
Sample Info: 10713906002
Volume Injected (uL): 1.0
Operator: TT2
Column phase: DB-5-US24230001
Column diameter: 0.32

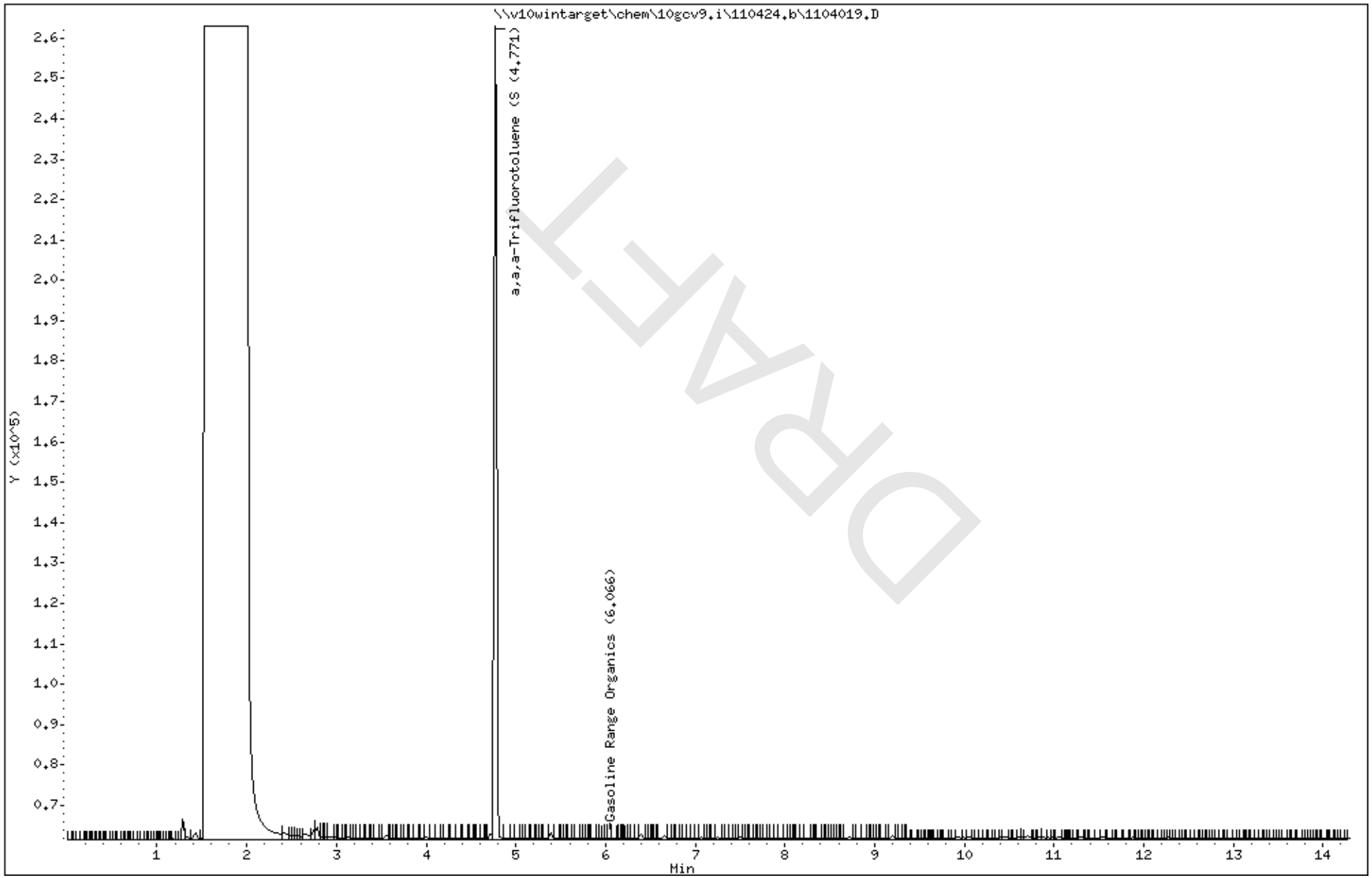


DRAFT

Data File: \\v10wintarget\chem\10gcv9.i\110424.b\1104019.D
Date : 04-NOV-2024 20:23
Client ID: HA-1 (3-4)
Sample Info: 10713906001,

Instrument: 10gcv9.i

Operator: ALE
Column phase: DB-624US2798156H
Column diameter: 0.18



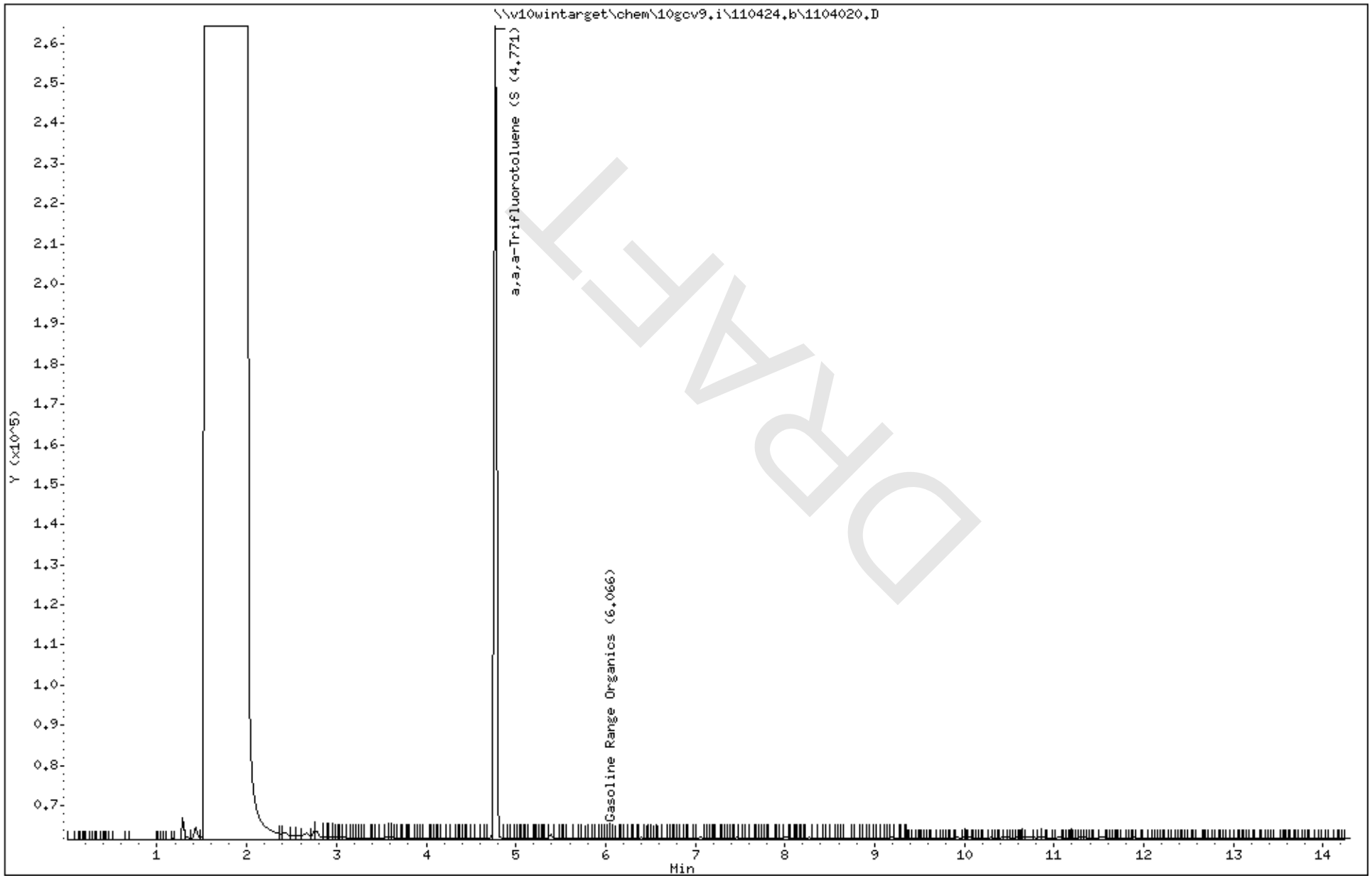
DRAFT

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Date : 04-NOV-2024 20:42
Client ID: HA-2 (1-2)
Sample Info: 10713906002,

Instrument: 10gcv9.i

Operator: ALE
Column diameter: 0.18

Column phase: DB-624US2798156H

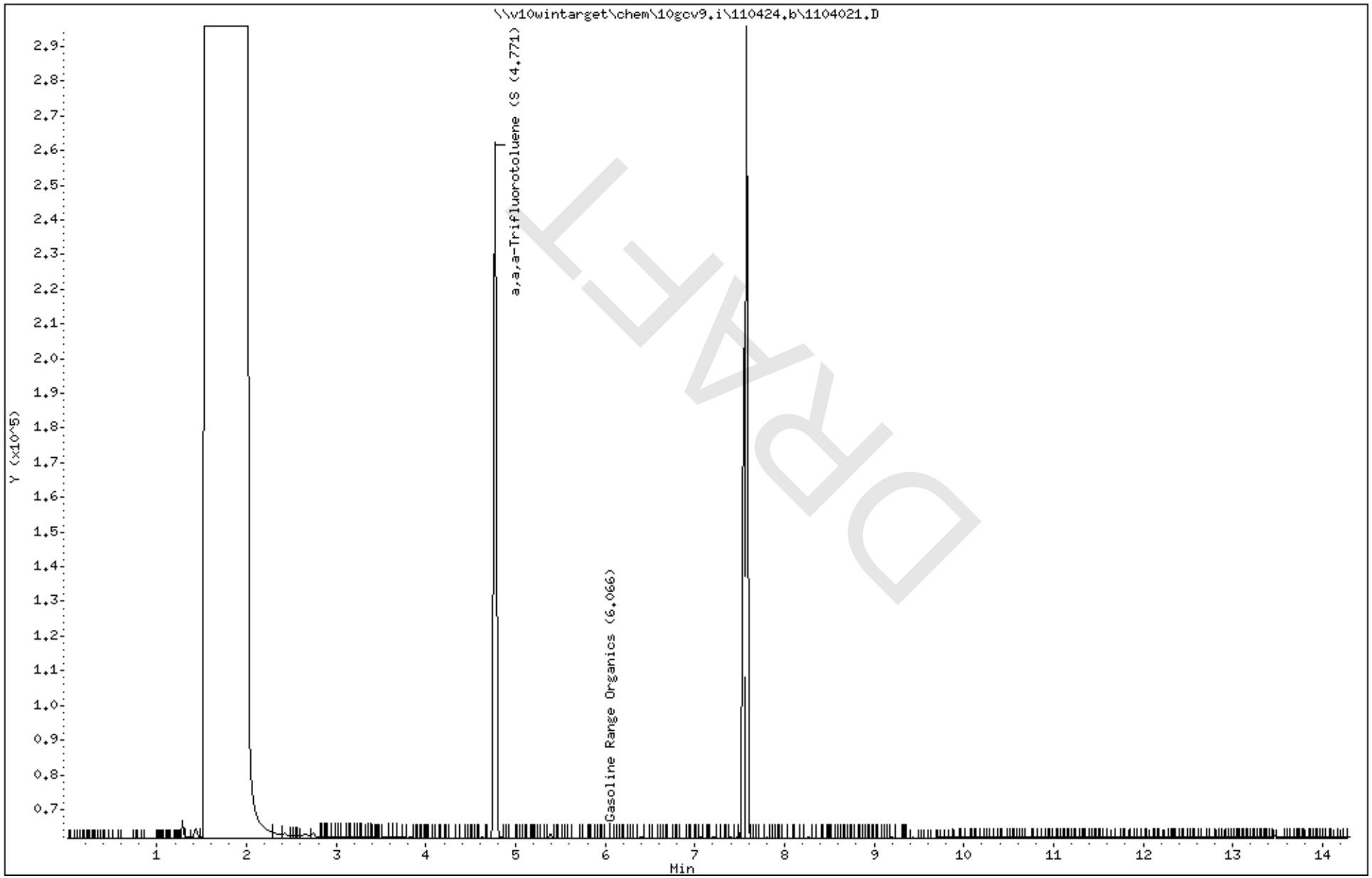


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Date : 04-NOV-2024 21:01
Client ID: Trip Blank
Sample Info: 10713906003,

Column phase: DB-624US2798156H

Instrument: 10gcv9.i

Operator: ALE
Column diameter: 0.18



ANALYTICAL REPORT

November 06, 2024

Braun Intertec - MN

Sample Delivery Group:	L1794254
Samples Received:	10/31/2024
Project Number:	B1608280.02
Description:	Nova Academy

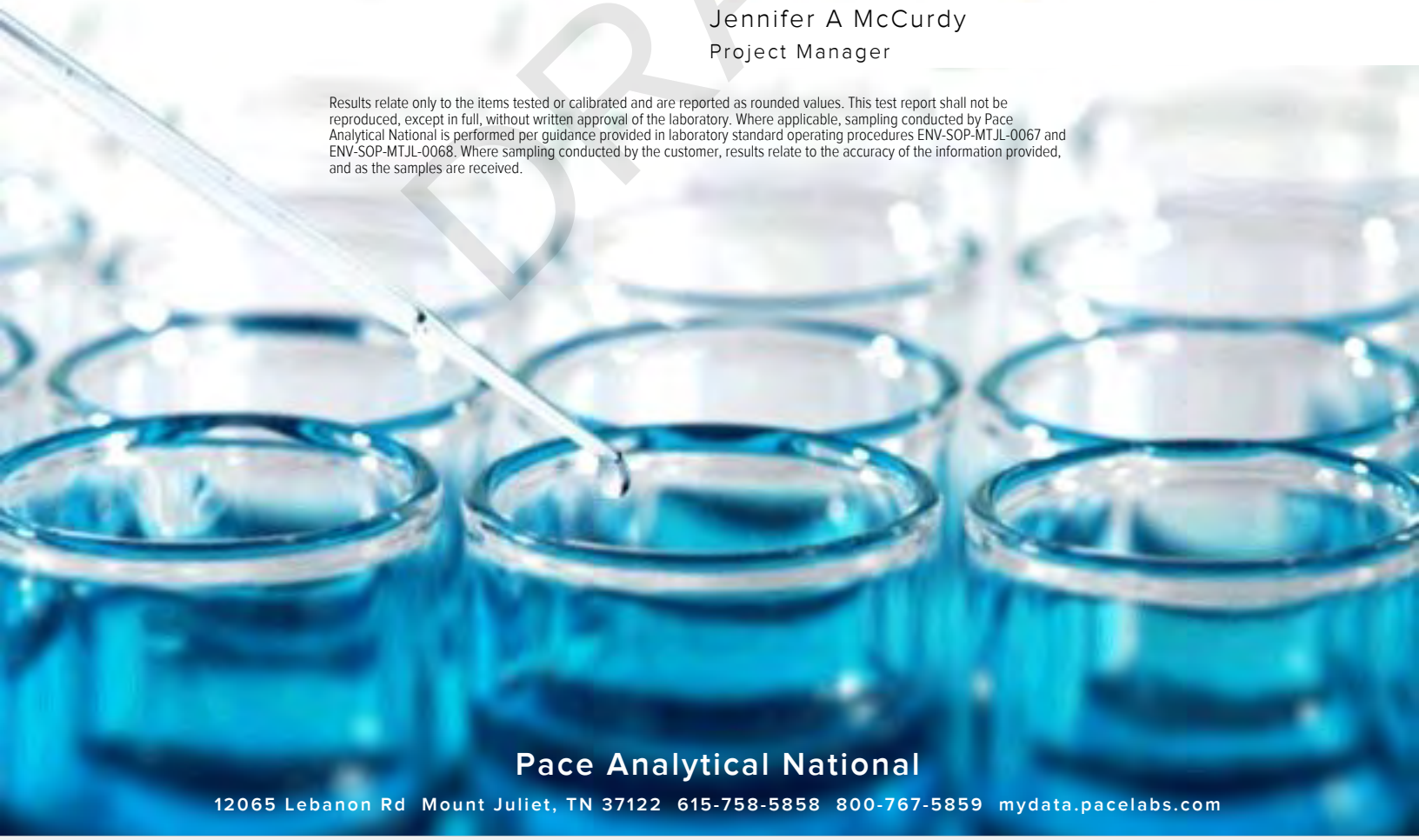
Report To: Ben fedje
11001 Hampshire Ave South
Minneapolis, MN 55438

Entire Report Reviewed By: Jennifer McCurdy

Jennifer A McCurdy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

DRAFT



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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VP-1 L1794254-01 Air

Collected by: Ben Fedje | Collected date/time: 10/29/24 15:19 | Received date/time: 10/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2394195	1	11/02/24 12:40	11/02/24 12:40	DAH	Mt. Juliet, TN

VP-2 L1794254-02 Air

Collected by: Ben Fedje | Collected date/time: 10/29/24 17:03 | Received date/time: 10/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2394195	1	11/02/24 13:07	11/02/24 13:07	DAH	Mt. Juliet, TN

VP-3 L1794254-03 Air

Collected by: Ben Fedje | Collected date/time: 10/29/24 17:03 | Received date/time: 10/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2394195	1	11/02/24 13:34	11/02/24 13:34	DAH	Mt. Juliet, TN

VP-4 L1794254-04 Air

Collected by: Ben Fedje | Collected date/time: 10/29/24 15:00 | Received date/time: 10/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2394195	1	11/02/24 14:00	11/02/24 14:00	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2395681	20	11/05/24 19:38	11/05/24 19:38	DBB	Mt. Juliet, TN

VP-5 L1794254-05 Air

Collected by: Ben Fedje | Collected date/time: 10/29/24 14:50 | Received date/time: 10/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2394195	1	11/02/24 14:27	11/02/24 14:27	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2395681	5	11/05/24 17:41	11/05/24 17:41	DBB	Mt. Juliet, TN

VP-6 L1794254-06 Air

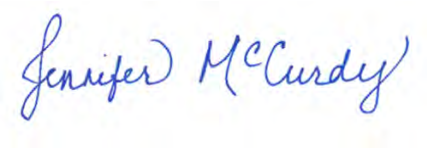
Collected by: Ben Fedje | Collected date/time: 10/29/24 14:36 | Received date/time: 10/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2394195	1	11/02/24 14:54	11/02/24 14:54	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2395681	20	11/05/24 18:20	11/05/24 18:20	DBB	Mt. Juliet, TN

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CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer A McCurdy
Project Manager

DRAFT

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	38.5		1	WG2394195
Benzene	71-43-2	78.10	0.639	3.06		1	WG2394195
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2394195
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2394195
Bromoform	75-25-2	253	6.52	ND		1	WG2394195
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2394195
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2394195
Carbon disulfide	75-15-0	76.10	1.24	1.48		1	WG2394195
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2394195
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2394195
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2394195
Chloroform	67-66-3	119	0.973	ND		1	WG2394195
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2394195
Cyclohexane	110-82-7	84.20	0.689	1.70		1	WG2394195
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2394195
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2394195
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2394195
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2394195
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2394195
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2394195
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2394195
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2394195
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2394195
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2394195
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2394195
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2394195
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2394195
Ethanol	64-17-5	46.10	4.71	7.99		1	WG2394195
Ethylbenzene	100-41-4	106	0.867	2.45		1	WG2394195
4-Ethyltoluene	622-96-8	120	0.982	ND		1	WG2394195
Ethyl acetate	141-78-6	88	2.27	2.29		1	WG2394195
Trichlorofluoromethane	75-69-4	137.40	1.12	1.13		1	WG2394195
Dichlorodifluoromethane	75-71-8	120.92	0.989	2.08		1	WG2394195
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2394195
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2394195
Heptane	142-82-5	100	0.818	ND		1	WG2394195
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2394195
n-Hexane	110-54-3	86.20	2.22	3.34		1	WG2394195
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2394195
Methylene Chloride	75-09-2	84.90	0.694	2.57		1	WG2394195
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2394195
2-Butanone (MEK)	78-93-3	72.10	3.69	6.75		1	WG2394195
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2394195
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2394195
MTBE	1634-04-4	88.10	0.721	ND		1	WG2394195
Naphthalene	91-20-3	128	3.30	ND		1	WG2394195
2-Propanol	67-63-0	60.10	3.07	ND		1	WG2394195
Propene	115-07-1	42.10	2.15	ND		1	WG2394195
Styrene	100-42-5	104	1.70	ND		1	WG2394195
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2394195
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2394195
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2394195
Toluene	108-88-3	92.10	1.88	17.4		1	WG2394195
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2394195
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2394195
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2394195

DRAFT

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2394195
1,2,4-Trimethylbenzene	95-63-6	120	0.982	1.30		1	WG2394195
1,3,5-Trimethylbenzene	108-67-8	120	0.982	ND		1	WG2394195
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2394195
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2394195
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2394195
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2394195
Xylenes, Total	1330-20-7	106.16	2.61	2.80		1	WG2394195
m&p-Xylene	179601-23-1	106	1.73	1.90		1	WG2394195
o-Xylene	95-47-6	106	0.867	0.897		1	WG2394195
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*94.3*		*60.0-140*	WG2394195

DRAFT

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	17.4		1	WG2394195
Benzene	71-43-2	78.10	0.639	2.84		1	WG2394195
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2394195
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2394195
Bromoform	75-25-2	253	6.52	ND		1	WG2394195
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2394195
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2394195
Carbon disulfide	75-15-0	76.10	1.24	1.56		1	WG2394195
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2394195
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2394195
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2394195
Chloroform	67-66-3	119	0.973	ND		1	WG2394195
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2394195
Cyclohexane	110-82-7	84.20	0.689	1.39		1	WG2394195
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2394195
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2394195
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2394195
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2394195
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2394195
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2394195
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2394195
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2394195
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2394195
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2394195
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2394195
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2394195
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2394195
Ethanol	64-17-5	46.10	4.71	7.18		1	WG2394195
Ethylbenzene	100-41-4	106	0.867	4.29		1	WG2394195
4-Ethyltoluene	622-96-8	120	0.982	ND		1	WG2394195
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2394195
Trichlorofluoromethane	75-69-4	137.40	1.12	ND		1	WG2394195
Dichlorodifluoromethane	75-71-8	120.92	0.989	2.05		1	WG2394195
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2394195
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2394195
Heptane	142-82-5	100	0.818	2.91		1	WG2394195
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2394195
n-Hexane	110-54-3	86.20	2.22	4.79		1	WG2394195
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2394195
Methylene Chloride	75-09-2	84.90	0.694	4.86		1	WG2394195
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2394195
2-Butanone (MEK)	78-93-3	72.10	3.69	ND		1	WG2394195
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2394195
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2394195
MTBE	1634-04-4	88.10	0.721	ND		1	WG2394195
Naphthalene	91-20-3	128	3.30	ND		1	WG2394195
2-Propanol	67-63-0	60.10	3.07	ND		1	WG2394195
Propene	115-07-1	42.10	2.15	ND		1	WG2394195
Styrene	100-42-5	104	1.70	ND		1	WG2394195
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2394195
Tetrachloroethylene	127-18-4	166	1.36	1.98		1	WG2394195
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2394195
Toluene	108-88-3	92.10	1.88	6.37		1	WG2394195
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2394195
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2394195
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2394195

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2394195
1,2,4-Trimethylbenzene	95-63-6	120	0.982	1.23		1	WG2394195
1,3,5-Trimethylbenzene	108-67-8	120	0.982	ND		1	WG2394195
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2394195
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2394195
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2394195
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2394195
Xylenes, Total	1330-20-7	106.16	2.61	3.39		1	WG2394195
m&p-Xylene	179601-23-1	106	1.73	2.31		1	WG2394195
o-Xylene	95-47-6	106	0.867	1.08		1	WG2394195
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*93.8*		*60.0-140*	WG2394195

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	117		1	WG2394195
Benzene	71-43-2	78.10	0.639	9.97		1	WG2394195
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2394195
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2394195
Bromoform	75-25-2	253	6.52	ND		1	WG2394195
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2394195
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2394195
Carbon disulfide	75-15-0	76.10	1.24	2.74		1	WG2394195
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2394195
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2394195
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2394195
Chloroform	67-66-3	119	0.973	ND		1	WG2394195
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2394195
Cyclohexane	110-82-7	84.20	0.689	4.37		1	WG2394195
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2394195
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2394195
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2394195
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2394195
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2394195
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2394195
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2394195
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2394195
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2394195
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2394195
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2394195
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2394195
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2394195
Ethanol	64-17-5	46.10	4.71	13.2		1	WG2394195
Ethylbenzene	100-41-4	106	0.867	5.81		1	WG2394195
4-Ethyltoluene	622-96-8	120	0.982	ND		1	WG2394195
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2394195
Trichlorofluoromethane	75-69-4	137.40	1.12	1.18		1	WG2394195
Dichlorodifluoromethane	75-71-8	120.92	0.989	ND		1	WG2394195
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2394195
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2394195
Heptane	142-82-5	100	0.818	7.40		1	WG2394195
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2394195
n-Hexane	110-54-3	86.20	2.22	11.9		1	WG2394195
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2394195
Methylene Chloride	75-09-2	84.90	0.694	2.74		1	WG2394195
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2394195
2-Butanone (MEK)	78-93-3	72.10	3.69	12.0		1	WG2394195
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2394195
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2394195
MTBE	1634-04-4	88.10	0.721	ND		1	WG2394195
Naphthalene	91-20-3	128	3.30	ND		1	WG2394195
2-Propanol	67-63-0	60.10	3.07	ND		1	WG2394195
Propene	115-07-1	42.10	2.15	46.8		1	WG2394195
Styrene	100-42-5	104	1.70	2.43		1	WG2394195
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2394195
Tetrachloroethylene	127-18-4	166	1.36	2.00		1	WG2394195
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2394195
Toluene	108-88-3	92.10	1.88	162		1	WG2394195
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2394195
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2394195
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2394195

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
			ug/m3	ug/m3			
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2394195
1,2,4-Trimethylbenzene	95-63-6	120	0.982	1.75		1	WG2394195
1,3,5-Trimethylbenzene	108-67-8	120	0.982	ND		1	WG2394195
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2394195
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2394195
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2394195
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2394195
Xylenes, Total	1330-20-7	106.16	2.61	8.77		1	WG2394195
m&p-Xylene	179601-23-1	106	1.73	6.07		1	WG2394195
o-Xylene	95-47-6	106	0.867	2.67		1	WG2394195
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*95.6*		*60.0-140*	WG2394195

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	2520	E	1	WG2394195
Benzene	71-43-2	78.10	0.639	6.20		1	WG2394195
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2394195
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2394195
Bromoform	75-25-2	253	6.52	ND		1	WG2394195
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2394195
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2394195
Carbon disulfide	75-15-0	76.10	1.24	ND		1	WG2394195
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2394195
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2394195
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2394195
Chloroform	67-66-3	119	0.973	ND		1	WG2394195
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2394195
Cyclohexane	110-82-7	84.20	0.689	3.55		1	WG2394195
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2394195
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2394195
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2394195
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2394195
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2394195
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2394195
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2394195
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2394195
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2394195
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2394195
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2394195
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2394195
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2394195
Ethanol	64-17-5	46.10	4.71	85.2		1	WG2394195
Ethylbenzene	100-41-4	106	0.867	22.1		1	WG2394195
4-Ethyltoluene	622-96-8	120	0.982	11.9		1	WG2394195
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2394195
Trichlorofluoromethane	75-69-4	137.40	1.12	1.45		1	WG2394195
Dichlorodifluoromethane	75-71-8	120.92	0.989	2.58		1	WG2394195
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2394195
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2394195
Heptane	142-82-5	100	0.818	9.24		1	WG2394195
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2394195
n-Hexane	110-54-3	86.20	2.22	11.1		1	WG2394195
Isopropylbenzene	98-82-8	120.20	0.983	4.16		1	WG2394195
Methylene Chloride	75-09-2	84.90	0.694	18.2		1	WG2394195
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2394195
2-Butanone (MEK)	78-93-3	72.10	3.69	34.5		1	WG2394195
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2394195
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2394195
MTBE	1634-04-4	88.10	0.721	ND		1	WG2394195
Naphthalene	91-20-3	128	3.30	ND		1	WG2394195
2-Propanol	67-63-0	60.10	3.07	41.0		1	WG2394195
Propene	115-07-1	42.10	2.15	ND		1	WG2394195
Styrene	100-42-5	104	1.70	57.0		1	WG2394195
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2394195
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2394195
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2394195
Toluene	108-88-3	92.10	37.7	2050		20	WG2395681
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2394195
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2394195
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2394195

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2394195
1,2,4-Trimethylbenzene	95-63-6	120	0.982	22.5		1	WG2394195
1,3,5-Trimethylbenzene	108-67-8	120	0.982	18.1		1	WG2394195
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	1.01		1	WG2394195
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2394195
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2394195
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2394195
Xylenes, Total	1330-20-7	106.16	2.61	96.8		1	WG2394195
m&p-Xylene	179601-23-1	106	1.73	68.1		1	WG2394195
o-Xylene	95-47-6	106	0.867	28.6		1	WG2394195
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*99.1*		*60.0-140*	WG2394195
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*98.5*		*60.0-140*	WG2395681

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	269	E	1	WG2394195
Benzene	71-43-2	78.10	0.639	19.9		1	WG2394195
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2394195
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2394195
Bromoform	75-25-2	253	6.52	ND		1	WG2394195
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2394195
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2394195
Carbon disulfide	75-15-0	76.10	1.24	11.8		1	WG2394195
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2394195
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2394195
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2394195
Chloroform	67-66-3	119	0.973	ND		1	WG2394195
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2394195
Cyclohexane	110-82-7	84.20	0.689	9.33		1	WG2394195
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2394195
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2394195
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2394195
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2394195
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2394195
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2394195
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2394195
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2394195
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2394195
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2394195
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2394195
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2394195
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2394195
Ethanol	64-17-5	46.10	4.71	ND		1	WG2394195
Ethylbenzene	100-41-4	106	0.867	7.28		1	WG2394195
4-Ethyltoluene	622-96-8	120	0.982	1.02		1	WG2394195
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2394195
Trichlorofluoromethane	75-69-4	137.40	1.12	1.40		1	WG2394195
Dichlorodifluoromethane	75-71-8	120.92	0.989	ND		1	WG2394195
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2394195
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2394195
Heptane	142-82-5	100	0.818	14.1		1	WG2394195
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2394195
n-Hexane	110-54-3	86.20	2.22	25.3		1	WG2394195
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2394195
Methylene Chloride	75-09-2	84.90	0.694	ND		1	WG2394195
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2394195
2-Butanone (MEK)	78-93-3	72.10	3.69	16.0		1	WG2394195
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2394195
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2394195
MTBE	1634-04-4	88.10	0.721	ND		1	WG2394195
Naphthalene	91-20-3	128	3.30	ND		1	WG2394195
2-Propanol	67-63-0	60.10	3.07	ND		1	WG2394195
Propene	115-07-1	42.10	10.8	165		5	WG2395681
Styrene	100-42-5	104	1.70	4.76		1	WG2394195
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2394195
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2394195
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2394195
Toluene	108-88-3	92.10	9.42	170		5	WG2395681
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2394195
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2394195
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2394195

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2394195
1,2,4-Trimethylbenzene	95-63-6	120	0.982	3.16		1	WG2394195
1,3,5-Trimethylbenzene	108-67-8	120	0.982	1.87		1	WG2394195
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2394195
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2394195
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2394195
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2394195
Xylenes, Total	1330-20-7	106.16	2.61	13.5		1	WG2394195
m&p-Xylene	179601-23-1	106	1.73	9.36		1	WG2394195
o-Xylene	95-47-6	106	0.867	4.17		1	WG2394195
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*98.3*		*60.0-140*	WG2394195
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*99.4*		*60.0-140*	WG2395681

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	855	E	1	WG2394195
Benzene	71-43-2	78.10	0.639	9.46		1	WG2394195
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2394195
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2394195
Bromoform	75-25-2	253	6.52	ND		1	WG2394195
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2394195
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2394195
Carbon disulfide	75-15-0	76.10	1.24	3.30		1	WG2394195
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2394195
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2394195
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2394195
Chloroform	67-66-3	119	0.973	ND		1	WG2394195
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2394195
Cyclohexane	110-82-7	84.20	0.689	5.54		1	WG2394195
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2394195
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2394195
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2394195
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2394195
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2394195
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2394195
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2394195
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2394195
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2394195
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2394195
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2394195
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2394195
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2394195
Ethanol	64-17-5	46.10	4.71	111		1	WG2394195
Ethylbenzene	100-41-4	106	0.867	25.7		1	WG2394195
4-Ethyltoluene	622-96-8	120	0.982	11.1		1	WG2394195
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2394195
Trichlorofluoromethane	75-69-4	137.40	1.12	ND		1	WG2394195
Dichlorodifluoromethane	75-71-8	120.92	0.989	1.94		1	WG2394195
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2394195
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2394195
Heptane	142-82-5	100	0.818	14.5		1	WG2394195
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2394195
n-Hexane	110-54-3	86.20	2.22	22.5		1	WG2394195
Isopropylbenzene	98-82-8	120.20	0.983	5.06		1	WG2394195
Methylene Chloride	75-09-2	84.90	0.694	5.59		1	WG2394195
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2394195
2-Butanone (MEK)	78-93-3	72.10	3.69	36.0		1	WG2394195
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2394195
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2394195
MTBE	1634-04-4	88.10	0.721	ND		1	WG2394195
Naphthalene	91-20-3	128	3.30	ND		1	WG2394195
2-Propanol	67-63-0	60.10	3.07	40.8		1	WG2394195
Propene	115-07-1	42.10	2.15	84.9		1	WG2394195
Styrene	100-42-5	104	1.70	59.1		1	WG2394195
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2394195
Tetrachloroethylene	127-18-4	166	1.36	4.02		1	WG2394195
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2394195
Toluene	108-88-3	92.10	37.7	1680		20	WG2395681
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2394195
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2394195
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2394195

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2394195
1,2,4-Trimethylbenzene	95-63-6	120	0.982	21.7		1	WG2394195
1,3,5-Trimethylbenzene	108-67-8	120	0.982	17.7		1	WG2394195
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2394195
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2394195
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2394195
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2394195
Xylenes, Total	1330-20-7	106.16	2.61	109		1	WG2394195
m&p-Xylene	179601-23-1	106	1.73	75.0		1	WG2394195
o-Xylene	95-47-6	106	0.867	33.9		1	WG2394195
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*101*		*60.0-140*	WG2394195
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*97.3*		*60.0-140*	WG2395681

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Method Blank (MB)

(MB) R4141149-3 11/02/24 09:13

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
Acetone	U		1.24	2.97
Benzene	U		0.351	0.639
Benzyl Chloride	U		0.461	1.04
Bromodichloromethane	U		0.466	1.34
Bromoform	U		0.781	6.52
Bromomethane	U		0.364	0.776
1,3-Butadiene	U		0.350	4.43
Carbon disulfide	U		0.498	1.24
Carbon tetrachloride	U		0.470	1.26
Chlorobenzene	U		0.545	0.924
Chloroethane	U		0.290	0.528
Chloroform	U		0.506	0.973
Chloromethane	U		0.227	0.413
Cyclohexane	U		0.585	0.689
Dibromochloromethane	U		0.592	1.70
1,2-Dibromoethane	U		0.531	1.54
1,2-Dichlorobenzene	U		0.441	1.20
1,3-Dichlorobenzene	U		0.453	1.20
1,4-Dichlorobenzene	U		0.462	1.20
1,2-Dichloroethane	U		0.296	0.810
1,1-Dichloroethane	U		0.285	0.802
1,1-Dichloroethene	U		0.296	0.793
cis-1,2-Dichloroethene	U		0.315	0.793
trans-1,2-Dichloroethene	U		0.291	0.793
1,2-Dichloropropane	U		0.348	0.924
cis-1,3-Dichloropropene	U		0.337	0.908
trans-1,3-Dichloropropene	U		0.361	0.908
Ethanol	U		4.47	4.71
Ethylbenzene	U		0.337	0.867
4-Ethyltoluene	U		0.435	0.982
Ethyl acetate	U		0.594	2.27
Trichlorofluoromethane	U		0.433	1.12
Dichlorodifluoromethane	U		0.399	0.989
1,1,2-Trichlorotrifluoroethane	U		0.576	1.53
1,2-Dichlorotetrafluoroethane	U		0.529	1.40
Heptane	U		0.466	0.818
Hexachloro-1,3-butadiene	U		0.854	6.73
n-Hexane	U		0.504	2.22
Isopropylbenzene	U		0.355	0.983
Methylene Chloride	U		0.587	0.694

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Method Blank (MB)

(MB) R4141149-3 11/02/24 09:13

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
Methyl Butyl Ketone	U		0.544	5.11
2-Butanone (MEK)	U		0.342	3.69
4-Methyl-2-pentanone (MIBK)	U		0.434	5.12
Methyl methacrylate	U		0.692	0.819
MTBE	U		0.293	0.721
Naphthalene	U		3.23	3.30
2-Propanol	U		1.67	3.07
Propene	U		0.368	2.15
Styrene	U		0.341	1.70
1,1,2,2-Tetrachloroethane	U		0.478	1.37
Tetrachloroethylene	U		0.754	1.36
Tetrahydrofuran	U		0.484	0.590
Toluene	U		0.490	1.88
1,2,4-Trichlorobenzene	U		3.42	4.66
1,1,1-Trichloroethane	U		0.391	1.09
1,1,2-Trichloroethane	U		0.372	1.09
Trichloroethylene	U		0.364	1.07
1,2,4-Trimethylbenzene	U		0.455	0.982
1,3,5-Trimethylbenzene	U		0.419	0.982
2,2,4-Trimethylpentane	U		0.420	0.934
Vinyl chloride	U		0.211	0.511
Vinyl Bromide	U		0.328	0.875
Vinyl acetate	U		0.341	2.22
Xylenes, Total	U		0.385	2.61
m&p-Xylene	U		0.754	1.73
o-Xylene	U		0.385	0.867
(S) 1,4-Bromofluorobenzene	*92.6*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4141149-1 11/02/24 08:19 • (LCSD) R4141149-2 11/02/24 08:47

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	8.91	8.53	8.36	95.7	93.9	70.0-130			1.97	25
Benzene	12.0	11.8	11.8	98.4	98.1	70.0-130			0.271	25
Benzyl Chloride	19.5	20.1	19.2	103	98.4	70.0-152			4.76	25
Bromodichloromethane	25.2	25.2	24.5	100	97.6	70.0-130			2.43	25
Bromoform	38.8	39.2	37.4	101	96.3	70.0-130			4.86	25
Bromomethane	14.6	14.2	14.3	97.3	98.1	70.0-130			0.819	25

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4141149-1 11/02/24 08:19 • (LCSD) R4141149-2 11/02/24 08:47

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Butadiene	8.30	7.46	7.28	89.9	87.7	70.0-130			2.40	25
Carbon disulfide	23.3	23.5	25.6	101	109	70.0-130			8.24	25
Carbon tetrachloride	23.6	23.5	23.4	99.5	98.9	70.0-130			0.538	25
Chlorobenzene	17.3	16.9	16.5	97.6	94.9	70.0-130			2.77	25
Chloroethane	9.89	9.26	9.05	93.6	91.5	70.0-130			2.31	25
Chloroform	18.3	18.4	18.4	101	101	70.0-130			0.000	25
Chloromethane	7.75	7.48	7.52	96.5	97.1	70.0-130			0.551	25
Cyclohexane	12.9	13.0	12.8	101	99.2	70.0-130			1.34	25
Dibromochloromethane	31.9	31.1	31.2	97.3	97.9	70.0-130			0.546	25
1,2-Dibromoethane	28.8	27.5	27.4	95.5	94.9	70.0-130			0.560	25
1,2-Dichlorobenzene	22.5	23.6	22.7	105	101	70.0-130			3.90	25
1,3-Dichlorobenzene	22.5	23.5	22.9	104	102	70.0-130			2.59	25
1,4-Dichlorobenzene	22.5	23.4	22.6	104	100	70.0-130			3.66	25
1,2-Dichloroethane	15.2	15.0	14.9	98.9	97.9	70.0-130			1.08	25
1,1-Dichloroethane	15.0	15.8	15.4	105	103	70.0-130			2.31	25
1,1-Dichloroethene	14.9	15.2	14.5	102	97.6	70.0-130			4.80	25
cis-1,2-Dichloroethene	14.9	15.0	14.5	101	97.3	70.0-130			3.50	25
trans-1,2-Dichloroethene	14.9	15.5	15.9	104	107	70.0-130			2.78	25
1,2-Dichloropropane	17.3	16.9	15.9	97.3	91.7	70.0-130			5.92	25
cis-1,3-Dichloropropene	17.0	17.1	16.3	101	95.5	70.0-130			5.17	25
trans-1,3-Dichloropropene	17.0	17.2	17.3	101	102	70.0-130			0.526	25
Ethanol	7.07	6.81	6.26	96.3	88.5	55.0-148			8.37	25
Ethylbenzene	16.3	16.5	15.2	101	93.3	70.0-130			8.22	25
4-Ethyltoluene	18.4	19.5	18.8	106	102	70.0-130			3.84	25
Ethyl acetate	13.5	14.3	13.5	106	100	70.0-130			5.43	25
Trichlorofluoromethane	21.1	20.8	20.3	98.9	96.3	70.0-130			2.73	25
Dichlorodifluoromethane	18.5	18.2	17.8	98.4	96.0	64.0-139			2.47	25
1,1,2-Trichlorotrifluoroethane	28.7	28.6	29.7	99.5	103	70.0-130			3.94	25
1,2-Dichlorotetrafluoroethane	26.2	25.4	24.7	96.8	94.1	70.0-130			2.79	25
Heptane	15.3	15.7	15.5	102	101	70.0-130			1.57	25
Hexachloro-1,3-butadiene	40.0	41.7	40.1	104	100	70.0-151			3.91	25
n-Hexane	13.2	13.9	13.2	105	99.7	70.0-130			5.21	25
Isopropylbenzene	18.4	18.8	18.3	102	99.5	70.0-130			2.38	25
Methylene Chloride	13.0	14.0	13.9	107	106	70.0-130			0.749	25
Methyl Butyl Ketone	15.3	15.6	14.8	102	96.3	70.0-149			5.39	25
2-Butanone (MEK)	11.1	10.6	10.5	96.3	94.9	70.0-130			1.39	25
4-Methyl-2-pentanone (MIBK)	15.4	15.1	15.7	98.1	102	70.0-139			4.26	25
Methyl methacrylate	15.4	15.8	14.7	103	96.0	70.0-130			7.23	25
MTBE	13.5	13.9	13.6	103	101	70.0-130			2.62	25
Naphthalene	19.6	20.8	19.9	106	101	70.0-159			4.63	25

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4141149-1 11/02/24 08:19 • (LCSD) R4141149-2 11/02/24 08:47

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	9.22	9.29	8.97	101	97.3	70.0-139			3.50	25
Propene	6.46	6.92	6.08	107	94.1	64.0-144			13.0	25
Styrene	31.9	35.3	33.6	111	105	70.0-130			4.94	25
1,1,2,2-Tetrachloroethane	25.8	25.8	24.9	100	96.8	70.0-130			3.52	25
Tetrachloroethylene	25.5	25.5	24.3	100	95.5	70.0-130			4.90	25
Tetrahydrofuran	11.1	12.0	11.1	109	101	70.0-137			7.90	25
Toluene	14.1	13.8	13.7	97.9	97.3	70.0-130			0.546	25
1,2,4-Trichlorobenzene	27.8	29.1	27.5	105	99.2	70.0-160			5.49	25
1,1,1-Trichloroethane	20.4	20.9	20.4	103	100	70.0-130			2.63	25
1,1,2-Trichloroethane	20.4	19.3	19.7	94.7	96.8	70.0-130			2.23	25
Trichloroethylene	20.1	19.4	19.5	96.8	97.1	70.0-130			0.275	25
1,2,4-Trimethylbenzene	18.4	19.9	19.1	108	104	70.0-130			4.02	25
1,3,5-Trimethylbenzene	18.4	20.4	19.5	111	106	70.0-130			4.18	25
2,2,4-Trimethylpentane	17.5	17.8	17.4	102	99.5	70.0-130			2.38	25
Vinyl chloride	9.59	8.79	8.95	91.7	93.3	70.0-130			1.73	25
Vinyl Bromide	16.4	16.1	15.6	98.1	94.9	70.0-130			3.31	25
Vinyl acetate	13.2	13.0	12.7	98.7	96.3	70.0-130			2.46	25
Xylenes, Total	49.1	53.0	50.4	108	103	70.0-130			5.04	25
m&p-Xylene	32.5	35.0	33.0	108	101	70.0-130			5.99	25
o-Xylene	16.3	17.8	17.2	109	106	70.0-130			3.22	25
(S) 1,4-Bromofluorobenzene				*101*	*99.2*	*60.0-140*				

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Method Blank (MB)

(MB) R4142539-3 11/05/24 10:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/m3		ug/m3	ug/m3
Propene	U		0.368	2.15
Toluene	U		0.490	1.88
(S) 1,4-Bromofluorobenzene	*97.1*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4142539-1 11/05/24 08:56 • (LCSD) R4142539-2 11/05/24 09:38

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/m3	ug/m3	ug/m3	%	%	%			%	%
Propene	6.46	5.51	5.49	85.3	85.1	64.0-144			0.313	25
Toluene	14.1	15.3	15.4	109	109	70.0-130			0.734	25
(S) 1,4-Bromofluorobenzene				*98.1*	*99.6*	*60.0-140*				

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

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Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

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BRAUN INTERTEC

Braun Intertec EDGE Chain-of-Custody Form

Chain-of-custody form is a legal document. Please complete all applicable fields.

L1794257

M150

PROJECT INFORMATION			
Project No.:	B1608280.02	MPCA Site ID:	VP8804
Project Name:	Nova Classical Academy	MPCA Task Code:	
Project Manager:	Ken Larsen	MDH Program Code:	
PM Email:	KLarsen@braunintertec.com	MPCA WO No.:	
PM Phone No.:	612-599-1704	Template/Profile:	T#262183
CC Name & Email:	Ben Fedje / BFedje@braunintertec.com	Prelogin/Bottle Order:	P#1108340

LABORATORY			
Lab Name:	Pace National	Turn-Around Time:	☒ Standard ☐ **RUSH**
Lab Address:	12065 Lebanon Road	Date Requested:	
	Mt Juliet, TN 37122	Deliverable(s):	☐ Level II ☐ Level III ☐ Level IV
EPA Lab ID:		Send lab data file to:	☒ Braun Intertec ☐ MPCA
Potential Hazard?	☒ No ☐ Yes	Billing Rate:	☒ Standard ☐ MPCA
If yes, specify in Comments field.			☐ Petrofund ☐ Other:

SAMPLE & ANALYSIS INFORMATION

SAMPLE TYPES: Sample = Sample; QC-FR = Duplicate

SAMPLING METHODS: SW-GAS = Any soil vapor, indoor air, or outdoor air

LAB MATRIX: AR = Air, vapor

FIELD MATRICES: Gas-Soil = Soil gas/vapor; Air-Indoor = Indoor air; Air-Ambnt = Outdoor air

LUI	Sample Name	Sample Type	Start Date mm/dd/yyyy	Start Time 24-hr hh:mm	Depth Start	Depth End	Depth Units	End Date mm/dd/yyyy	End Time 24-hr hh:mm	Sampling Method	Lab Matrix	Field Matrix	Canister ID	Flow Control ID	Start Vacuum	End Vacuum	PID Reading	Canister Size	Comments	Analysis	Minn. TO-15		Lab Sample No.	#
BE00837	VP-1	Sample	10/29/2024	1508	3	5	ft	10/29/2024	1519	SW-GAS	AR	Gas-Soil	23743	12767	-30	-1	0	1L			X		01	1
BE00838	VP-2	Sample	10/29/2024	1633	3	5	ft	10/29/2024	1703	SW-GAS	AR	Gas-Soil	22034	29403	-26	-1	0	1L			X		02	2
BE00839	VP-3	Sample	10/29/2024	1657	3	5	ft	10/29/2024	1703	SW-GAS	AR	Gas-Soil	10670	15441	-29	-1	0	1L			X		03	3
BE00840	VP-4	Sample	10/29/2024	1454	3	5	ft	10/29/2024	1500	SW-GAS	AR	Gas-Soil	21508	14731	-26	-2	2	1L			X		04	4
BE00841	VP-5	Sample	10/29/2024	1442	3	5	ft	10/29/2024	1450	SW-GAS	AR	Gas-Soil	13940	13200	-30	-3	0	1L			X		05	5
BE00842	VP-6	Sample	10/29/2024	1429	3	5	ft	10/29/2024	1436	SW-GAS	AR	Gas-Soil	24497	15566	-28	-3	2	1L			X		06	6
																								7
																								8
																								9
																								10

Sample Receipt Checklist

COC Seal Present/Intact: ☐Y ☐N
COC Signed/Accurate: ☐Y ☐N
Bottles arrive intact: ☐Y ☐N
Correct bottles used: ☐Y ☐N

Airs
Size: ___1L ___6L ___1.4L
Tage Color: G__ W__ P__ B__
Tubing ___ Shunt ___

Unused: 4

T/P#: _____

Sampler's Name: Ben Fedje	Relinquished by:	Company: Braun	Date/Time: 10/29/24 18:30	Received By:	Company: Pace	Date/Time: 10/30/24 0930	Comments:	No. of Coolers/Boxes:	
Sampler's Phone: 651-357-6840	Relinquished by:	Company: Pace	Date/Time: 10/30/24 1500	Received By: Easton Dyer	Company: PACE	Date/Time: 10/31/24 0900			
Sampler's Signature:	Relinquished by:	Company:	Date/Time:	Received By:	Company:	Date/Time:		Page 1 of 1	

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ANALYTICAL REPORT

December 16, 2024

Braun Intertec - MN

Sample Delivery Group:	L1809212
Samples Received:	12/13/2024
Project Number:	B1608280.02
Description:	Nova Academy

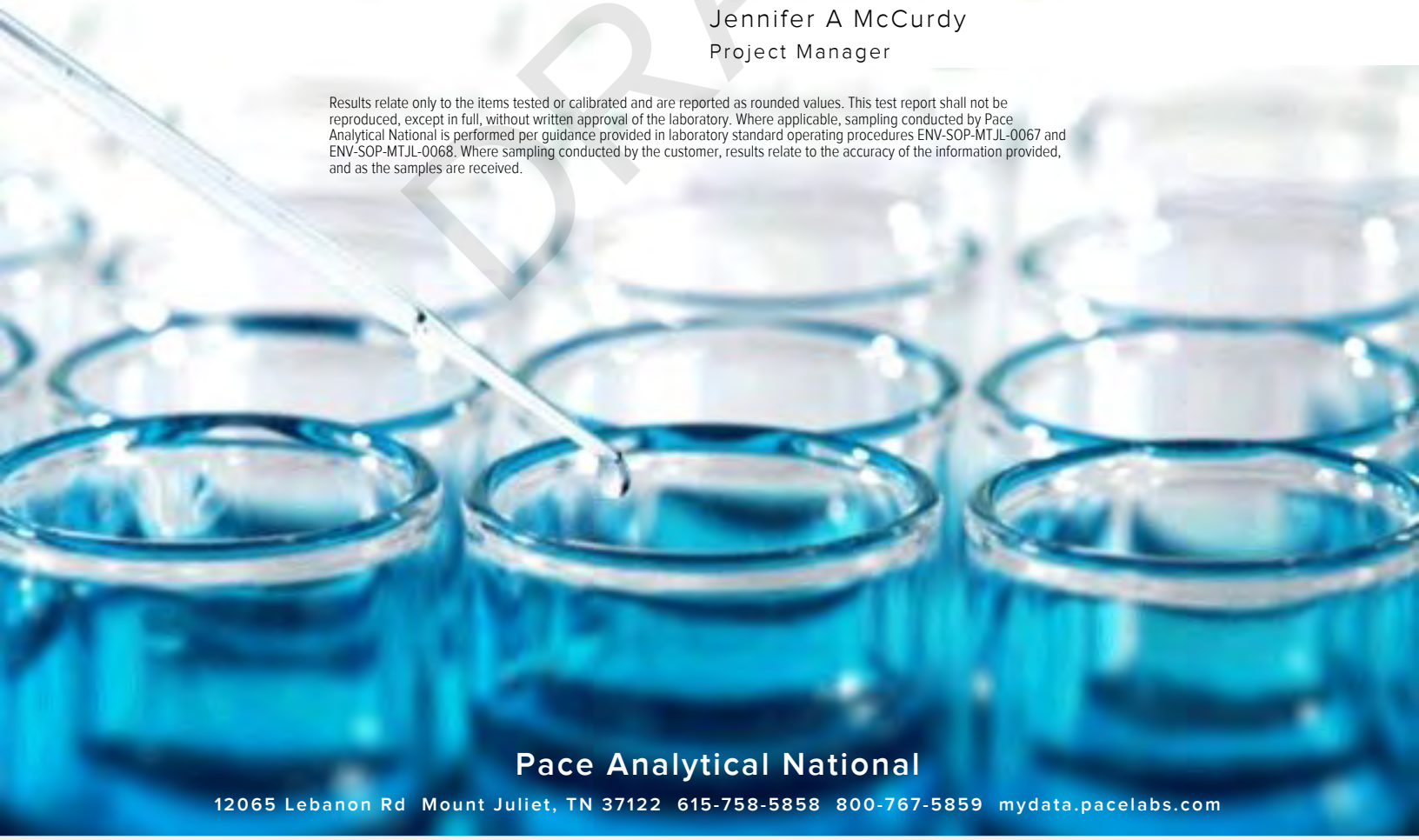
Report To: Ben fedje
11001 Hampshire Ave South
Minneapolis, MN 55438

Entire Report Reviewed By: Jennifer McCurdy

Jennifer A McCurdy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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DRAFT

VP-1 L1809212-01 Air

Collected by: Ben Fedje | Collected date/time: 12/11/24 12:36 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2419138	1	12/15/24 15:32	12/15/24 15:32	JAP	Mt. Juliet, TN

VP-2 L1809212-02 Air

Collected by: Ben Fedje | Collected date/time: 12/11/24 12:35 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2419138	1	12/15/24 16:00	12/15/24 16:00	JAP	Mt. Juliet, TN

VP-3 L1809212-03 Air

Collected by: Ben Fedje | Collected date/time: 12/11/24 12:35 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2419138	1	12/15/24 16:27	12/15/24 16:27	JAP	Mt. Juliet, TN

VP-4 L1809212-04 Air

Collected by: Ben Fedje | Collected date/time: 12/11/24 13:27 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2419138	1	12/15/24 16:55	12/15/24 16:55	JAP	Mt. Juliet, TN

VP-5 L1809212-05 Air

Collected by: Ben Fedje | Collected date/time: 12/11/24 13:36 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2419138	1	12/15/24 17:23	12/15/24 17:23	JAP	Mt. Juliet, TN

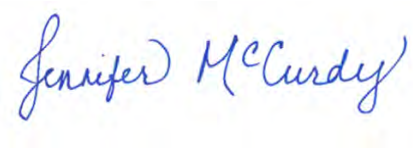
VP-6 L1809212-06 Air

Collected by: Ben Fedje | Collected date/time: 12/11/24 13:40 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2419138	1	12/15/24 17:51	12/15/24 17:51	JAP	Mt. Juliet, TN

DRAFT

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer A McCurdy
Project Manager

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	6.42		1	WG2419138
Benzene	71-43-2	78.10	0.639	ND		1	WG2419138
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2419138
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2419138
Bromoform	75-25-2	253	6.52	ND		1	WG2419138
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2419138
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2419138
Carbon disulfide	75-15-0	76.10	1.24	ND		1	WG2419138
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2419138
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2419138
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2419138
Chloroform	67-66-3	119	0.973	ND		1	WG2419138
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2419138
Cyclohexane	110-82-7	84.20	0.689	3.44		1	WG2419138
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2419138
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2419138
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2419138
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2419138
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2419138
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2419138
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2419138
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2419138
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2419138
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2419138
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2419138
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2419138
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2419138
Ethanol	64-17-5	46.10	4.71	ND		1	WG2419138
Ethylbenzene	100-41-4	106	0.867	ND		1	WG2419138
4-Ethyltoluene	622-96-8	120	0.982	ND		1	WG2419138
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2419138
Trichlorofluoromethane	75-69-4	137.40	1.12	ND		1	WG2419138
Dichlorodifluoromethane	75-71-8	120.92	0.989	2.10		1	WG2419138
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2419138
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2419138
Heptane	142-82-5	100	0.818	ND		1	WG2419138
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2419138
n-Hexane	110-54-3	86.20	2.22	ND		1	WG2419138
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2419138
Methylene Chloride	75-09-2	84.90	0.694	ND		1	WG2419138
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2419138
2-Butanone (MEK)	78-93-3	72.10	3.69	ND		1	WG2419138
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2419138
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2419138
MTBE	1634-04-4	88.10	0.721	ND		1	WG2419138
Naphthalene	91-20-3	128	3.30	ND		1	WG2419138
2-Propanol	67-63-0	60.10	3.07	ND		1	WG2419138
Propene	115-07-1	42.10	2.15	ND		1	WG2419138
Styrene	100-42-5	104	1.70	ND		1	WG2419138
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2419138
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2419138
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2419138
Toluene	108-88-3	92.10	1.88	ND		1	WG2419138
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2419138
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2419138
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2419138
1,2,4-Trimethylbenzene	95-63-6	120	0.982	ND		1	WG2419138
1,3,5-Trimethylbenzene	108-67-8	120	0.982	ND		1	WG2419138
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2419138
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2419138
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2419138
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2419138
Xylenes, Total	1330-20-7	106.16	2.61	ND		1	WG2419138
m&p-Xylene	179601-23-1	106	1.73	ND		1	WG2419138
o-Xylene	95-47-6	106	0.867	ND		1	WG2419138
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*92.3*		*60.0-140*	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	5.87		1	WG2419138
Benzene	71-43-2	78.10	0.639	ND		1	WG2419138
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2419138
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2419138
Bromoform	75-25-2	253	6.52	ND		1	WG2419138
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2419138
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2419138
Carbon disulfide	75-15-0	76.10	1.24	ND		1	WG2419138
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2419138
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2419138
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2419138
Chloroform	67-66-3	119	0.973	ND		1	WG2419138
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2419138
Cyclohexane	110-82-7	84.20	0.689	2.89		1	WG2419138
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2419138
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2419138
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2419138
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2419138
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2419138
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2419138
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2419138
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2419138
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2419138
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2419138
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2419138
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2419138
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2419138
Ethanol	64-17-5	46.10	4.71	8.26		1	WG2419138
Ethylbenzene	100-41-4	106	0.867	ND		1	WG2419138
4-Ethyltoluene	622-96-8	120	0.982	ND		1	WG2419138
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2419138
Trichlorofluoromethane	75-69-4	137.40	1.12	ND		1	WG2419138
Dichlorodifluoromethane	75-71-8	120.92	0.989	2.21		1	WG2419138
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2419138
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2419138
Heptane	142-82-5	100	0.818	ND		1	WG2419138
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2419138
n-Hexane	110-54-3	86.20	2.22	ND		1	WG2419138
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2419138
Methylene Chloride	75-09-2	84.90	0.694	ND		1	WG2419138
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2419138
2-Butanone (MEK)	78-93-3	72.10	3.69	ND		1	WG2419138
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2419138
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2419138
MTBE	1634-04-4	88.10	0.721	ND		1	WG2419138
Naphthalene	91-20-3	128	3.30	ND		1	WG2419138
2-Propanol	67-63-0	60.10	3.07	ND		1	WG2419138
Propene	115-07-1	42.10	2.15	ND		1	WG2419138
Styrene	100-42-5	104	1.70	ND		1	WG2419138
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2419138
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2419138
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2419138
Toluene	108-88-3	92.10	1.88	3.74		1	WG2419138
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2419138
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2419138
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2419138
1,2,4-Trimethylbenzene	95-63-6	120	0.982	ND		1	WG2419138
1,3,5-Trimethylbenzene	108-67-8	120	0.982	ND		1	WG2419138
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2419138
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2419138
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2419138
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2419138
Xylenes, Total	1330-20-7	106.16	2.61	ND		1	WG2419138
m&p-Xylene	179601-23-1	106	1.73	ND		1	WG2419138
o-Xylene	95-47-6	106	0.867	ND		1	WG2419138
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*88.7*		*60.0-140*	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	7.27		1	WG2419138
Benzene	71-43-2	78.10	0.639	ND		1	WG2419138
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2419138
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2419138
Bromoform	75-25-2	253	6.52	ND		1	WG2419138
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2419138
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2419138
Carbon disulfide	75-15-0	76.10	1.24	ND		1	WG2419138
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2419138
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2419138
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2419138
Chloroform	67-66-3	119	0.973	ND		1	WG2419138
Chloromethane	74-87-3	50.50	0.413	0.533		1	WG2419138
Cyclohexane	110-82-7	84.20	0.689	2.47		1	WG2419138
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2419138
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2419138
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2419138
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2419138
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2419138
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2419138
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2419138
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2419138
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2419138
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2419138
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2419138
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2419138
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2419138
Ethanol	64-17-5	46.10	4.71	ND		1	WG2419138
Ethylbenzene	100-41-4	106	0.867	ND		1	WG2419138
4-Ethyltoluene	622-96-8	120	0.982	ND		1	WG2419138
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2419138
Trichlorofluoromethane	75-69-4	137.40	1.12	1.16		1	WG2419138
Dichlorodifluoromethane	75-71-8	120.92	0.989	2.28		1	WG2419138
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2419138
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2419138
Heptane	142-82-5	100	0.818	ND		1	WG2419138
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2419138
n-Hexane	110-54-3	86.20	2.22	ND		1	WG2419138
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2419138
Methylene Chloride	75-09-2	84.90	0.694	ND		1	WG2419138
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2419138
2-Butanone (MEK)	78-93-3	72.10	3.69	ND		1	WG2419138
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2419138
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2419138
MTBE	1634-04-4	88.10	0.721	ND		1	WG2419138
Naphthalene	91-20-3	128	3.30	ND		1	WG2419138
2-Propanol	67-63-0	60.10	3.07	ND		1	WG2419138
Propene	115-07-1	42.10	2.15	ND		1	WG2419138
Styrene	100-42-5	104	1.70	ND		1	WG2419138
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2419138
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2419138
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2419138
Toluene	108-88-3	92.10	1.88	ND		1	WG2419138
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2419138
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2419138
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2419138
1,2,4-Trimethylbenzene	95-63-6	120	0.982	ND		1	WG2419138
1,3,5-Trimethylbenzene	108-67-8	120	0.982	ND		1	WG2419138
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2419138
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2419138
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2419138
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2419138
Xylenes, Total	1330-20-7	106.16	2.61	ND		1	WG2419138
m&p-Xylene	179601-23-1	106	1.73	ND		1	WG2419138
o-Xylene	95-47-6	106	0.867	ND		1	WG2419138
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*91.2*		*60.0-140*	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	11.4		1	WG2419138
Benzene	71-43-2	78.10	0.639	ND		1	WG2419138
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2419138
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2419138
Bromoform	75-25-2	253	6.52	ND		1	WG2419138
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2419138
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2419138
Carbon disulfide	75-15-0	76.10	1.24	ND		1	WG2419138
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2419138
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2419138
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2419138
Chloroform	67-66-3	119	0.973	ND		1	WG2419138
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2419138
Cyclohexane	110-82-7	84.20	0.689	1.87		1	WG2419138
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2419138
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2419138
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2419138
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2419138
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2419138
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2419138
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2419138
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2419138
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2419138
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2419138
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2419138
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2419138
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2419138
Ethanol	64-17-5	46.10	4.71	7.49		1	WG2419138
Ethylbenzene	100-41-4	106	0.867	ND		1	WG2419138
4-Ethyltoluene	622-96-8	120	0.982	ND		1	WG2419138
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2419138
Trichlorofluoromethane	75-69-4	137.40	1.12	ND		1	WG2419138
Dichlorodifluoromethane	75-71-8	120.92	0.989	2.34		1	WG2419138
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2419138
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2419138
Heptane	142-82-5	100	0.818	ND		1	WG2419138
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2419138
n-Hexane	110-54-3	86.20	2.22	ND		1	WG2419138
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2419138
Methylene Chloride	75-09-2	84.90	0.694	ND		1	WG2419138
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2419138
2-Butanone (MEK)	78-93-3	72.10	3.69	ND		1	WG2419138
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2419138
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2419138
MTBE	1634-04-4	88.10	0.721	ND		1	WG2419138
Naphthalene	91-20-3	128	3.30	ND		1	WG2419138
2-Propanol	67-63-0	60.10	3.07	ND		1	WG2419138
Propene	115-07-1	42.10	2.15	ND		1	WG2419138
Styrene	100-42-5	104	1.70	ND		1	WG2419138
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2419138
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2419138
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2419138
Toluene	108-88-3	92.10	1.88	ND		1	WG2419138
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2419138
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2419138
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2419138
1,2,4-Trimethylbenzene	95-63-6	120	0.982	ND		1	WG2419138
1,3,5-Trimethylbenzene	108-67-8	120	0.982	ND		1	WG2419138
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2419138
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2419138
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2419138
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2419138
Xylenes, Total	1330-20-7	106.16	2.61	ND		1	WG2419138
m&p-Xylene	179601-23-1	106	1.73	ND		1	WG2419138
o-Xylene	95-47-6	106	0.867	ND		1	WG2419138
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*92.8*		*60.0-140*	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	7.60		1	WG2419138
Benzene	71-43-2	78.10	0.639	ND		1	WG2419138
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2419138
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2419138
Bromoform	75-25-2	253	6.52	ND		1	WG2419138
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2419138
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2419138
Carbon disulfide	75-15-0	76.10	1.24	ND		1	WG2419138
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2419138
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2419138
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2419138
Chloroform	67-66-3	119	0.973	ND		1	WG2419138
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2419138
Cyclohexane	110-82-7	84.20	0.689	1.99		1	WG2419138
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2419138
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2419138
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2419138
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2419138
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2419138
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2419138
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2419138
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2419138
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2419138
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2419138
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2419138
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2419138
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2419138
Ethanol	64-17-5	46.10	4.71	7.75		1	WG2419138
Ethylbenzene	100-41-4	106	0.867	ND		1	WG2419138
4-Ethyltoluene	622-96-8	120	0.982	ND		1	WG2419138
Ethyl acetate	141-78-6	88	2.27	3.92		1	WG2419138
Trichlorofluoromethane	75-69-4	137.40	1.12	1.27		1	WG2419138
Dichlorodifluoromethane	75-71-8	120.92	0.989	2.06		1	WG2419138
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2419138
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2419138
Heptane	142-82-5	100	0.818	ND		1	WG2419138
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2419138
n-Hexane	110-54-3	86.20	2.22	ND		1	WG2419138
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2419138
Methylene Chloride	75-09-2	84.90	0.694	ND		1	WG2419138
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2419138
2-Butanone (MEK)	78-93-3	72.10	3.69	12.1		1	WG2419138
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2419138
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2419138
MTBE	1634-04-4	88.10	0.721	ND		1	WG2419138
Naphthalene	91-20-3	128	3.30	ND		1	WG2419138
2-Propanol	67-63-0	60.10	3.07	3.34		1	WG2419138
Propene	115-07-1	42.10	2.15	ND		1	WG2419138
Styrene	100-42-5	104	1.70	ND		1	WG2419138
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2419138
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2419138
Tetrahydrofuran	109-99-9	72.10	0.590	0.820		1	WG2419138
Toluene	108-88-3	92.10	1.88	26.0		1	WG2419138
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2419138
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2419138
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2419138
1,2,4-Trimethylbenzene	95-63-6	120	0.982	ND		1	WG2419138
1,3,5-Trimethylbenzene	108-67-8	120	0.982	ND		1	WG2419138
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2419138
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2419138
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2419138
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2419138
Xylenes, Total	1330-20-7	106.16	2.61	ND		1	WG2419138
m&p-Xylene	179601-23-1	106	1.73	ND		1	WG2419138
o-Xylene	95-47-6	106	0.867	ND		1	WG2419138
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*90.0*		*60.0-140*	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.97	13.2		1	WG2419138
Benzene	71-43-2	78.10	0.639	ND		1	WG2419138
Benzyl Chloride	100-44-7	127	1.04	ND		1	WG2419138
Bromodichloromethane	75-27-4	164	1.34	ND		1	WG2419138
Bromoform	75-25-2	253	6.52	ND		1	WG2419138
Bromomethane	74-83-9	94.90	0.776	ND		1	WG2419138
1,3-Butadiene	106-99-0	54.10	4.43	ND		1	WG2419138
Carbon disulfide	75-15-0	76.10	1.24	ND		1	WG2419138
Carbon tetrachloride	56-23-5	154	1.26	ND		1	WG2419138
Chlorobenzene	108-90-7	113	0.924	ND		1	WG2419138
Chloroethane	75-00-3	64.50	0.528	ND		1	WG2419138
Chloroform	67-66-3	119	0.973	ND		1	WG2419138
Chloromethane	74-87-3	50.50	0.413	ND		1	WG2419138
Cyclohexane	110-82-7	84.20	0.689	1.81		1	WG2419138
Dibromochloromethane	124-48-1	208	1.70	ND		1	WG2419138
1,2-Dibromoethane	106-93-4	188	1.54	ND		1	WG2419138
1,2-Dichlorobenzene	95-50-1	147	1.20	ND		1	WG2419138
1,3-Dichlorobenzene	541-73-1	147	1.20	ND		1	WG2419138
1,4-Dichlorobenzene	106-46-7	147	1.20	ND		1	WG2419138
1,2-Dichloroethane	107-06-2	99	0.810	ND		1	WG2419138
1,1-Dichloroethane	75-34-3	98	0.802	ND		1	WG2419138
1,1-Dichloroethene	75-35-4	96.90	0.793	ND		1	WG2419138
cis-1,2-Dichloroethene	156-59-2	96.90	0.793	ND		1	WG2419138
trans-1,2-Dichloroethene	156-60-5	96.90	0.793	ND		1	WG2419138
1,2-Dichloropropane	78-87-5	113	0.924	ND		1	WG2419138
cis-1,3-Dichloropropene	10061-01-5	111	0.908	ND		1	WG2419138
trans-1,3-Dichloropropene	10061-02-6	111	0.908	ND		1	WG2419138
Ethanol	64-17-5	46.10	4.71	7.96		1	WG2419138
Ethylbenzene	100-41-4	106	0.867	ND		1	WG2419138
4-Ethyltoluene	622-96-8	120	0.982	ND		1	WG2419138
Ethyl acetate	141-78-6	88	2.27	ND		1	WG2419138
Trichlorofluoromethane	75-69-4	137.40	1.12	1.12		1	WG2419138
Dichlorodifluoromethane	75-71-8	120.92	0.989	2.36		1	WG2419138
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.53	ND		1	WG2419138
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.40	ND		1	WG2419138
Heptane	142-82-5	100	0.818	ND		1	WG2419138
Hexachloro-1,3-butadiene	87-68-3	261	6.73	ND		1	WG2419138
n-Hexane	110-54-3	86.20	2.22	ND		1	WG2419138
Isopropylbenzene	98-82-8	120.20	0.983	ND		1	WG2419138
Methylene Chloride	75-09-2	84.90	0.694	ND		1	WG2419138
Methyl Butyl Ketone	591-78-6	100	5.11	ND		1	WG2419138
2-Butanone (MEK)	78-93-3	72.10	3.69	ND		1	WG2419138
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.12	ND		1	WG2419138
Methyl methacrylate	80-62-6	100.12	0.819	ND		1	WG2419138
MTBE	1634-04-4	88.10	0.721	ND		1	WG2419138
Naphthalene	91-20-3	128	3.30	ND		1	WG2419138
2-Propanol	67-63-0	60.10	3.07	ND		1	WG2419138
Propene	115-07-1	42.10	2.15	ND		1	WG2419138
Styrene	100-42-5	104	1.70	ND		1	WG2419138
1,1,2,2-Tetrachloroethane	79-34-5	168	1.37	ND		1	WG2419138
Tetrachloroethylene	127-18-4	166	1.36	ND		1	WG2419138
Tetrahydrofuran	109-99-9	72.10	0.590	ND		1	WG2419138
Toluene	108-88-3	92.10	1.88	ND		1	WG2419138
1,2,4-Trichlorobenzene	120-82-1	181	4.66	ND		1	WG2419138
1,1,1-Trichloroethane	71-55-6	133	1.09	ND		1	WG2419138
1,1,2-Trichloroethane	79-00-5	133	1.09	ND		1	WG2419138

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	1.07	ND		1	WG2419138
1,2,4-Trimethylbenzene	95-63-6	120	0.982	ND		1	WG2419138
1,3,5-Trimethylbenzene	108-67-8	120	0.982	ND		1	WG2419138
2,2,4-Trimethylpentane	540-84-1	114.22	0.934	ND		1	WG2419138
Vinyl chloride	75-01-4	62.50	0.511	ND		1	WG2419138
Vinyl Bromide	593-60-2	106.95	0.875	ND		1	WG2419138
Vinyl acetate	108-05-4	86.10	2.22	ND		1	WG2419138
Xylenes, Total	1330-20-7	106.16	2.61	ND		1	WG2419138
m&p-Xylene	179601-23-1	106	1.73	ND		1	WG2419138
o-Xylene	95-47-6	106	0.867	ND		1	WG2419138
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*91.4*		*60.0-140*	WG2419138

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Method Blank (MB)

(MB) R4158197-3 12/15/24 09:44

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
Acetone	U		1.24	2.97
Benzene	U		0.351	0.639
Benzyl Chloride	U		0.461	1.04
Bromodichloromethane	U		0.466	1.34
Bromoform	U		0.781	6.52
Bromomethane	U		0.364	0.776
1,3-Butadiene	U		0.350	4.43
Carbon disulfide	U		0.498	1.24
Carbon tetrachloride	U		0.470	1.26
Chlorobenzene	U		0.545	0.924
Chloroethane	U		0.290	0.528
Chloroform	U		0.506	0.973
Chloromethane	U		0.227	0.413
Cyclohexane	U		0.585	0.689
Dibromochloromethane	U		0.592	1.70
1,2-Dibromoethane	U		0.531	1.54
1,2-Dichlorobenzene	U		0.441	1.20
1,3-Dichlorobenzene	U		0.453	1.20
1,4-Dichlorobenzene	U		0.462	1.20
1,2-Dichloroethane	U		0.296	0.810
1,1-Dichloroethane	U		0.285	0.802
1,1-Dichloroethene	U		0.296	0.793
cis-1,2-Dichloroethene	U		0.315	0.793
trans-1,2-Dichloroethene	U		0.291	0.793
1,2-Dichloropropane	U		0.348	0.924
cis-1,3-Dichloropropene	U		0.337	0.908
trans-1,3-Dichloropropene	U		0.361	0.908
Ethanol	U		4.47	4.71
Ethylbenzene	U		0.337	0.867
4-Ethyltoluene	U		0.435	0.982
Ethyl acetate	U		0.594	2.27
Trichlorofluoromethane	U		0.433	1.12
Dichlorodifluoromethane	U		0.399	0.989
1,1,2-Trichlorotrifluoroethane	U		0.576	1.53
1,2-Dichlorotetrafluoroethane	U		0.529	1.40
Heptane	U		0.466	0.818
Hexachloro-1,3-butadiene	U		0.854	6.73
n-Hexane	U		0.504	2.22
Isopropylbenzene	U		0.355	0.983
Methylene Chloride	U		0.587	0.694

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Method Blank (MB)

(MB) R4158197-3 12/15/24 09:44

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
Methyl Butyl Ketone	U		0.544	5.11
2-Butanone (MEK)	U		0.342	3.69
4-Methyl-2-pentanone (MIBK)	U		0.434	5.12
Methyl methacrylate	U		0.692	0.819
MTBE	U		0.293	0.721
Naphthalene	U		3.23	3.30
2-Propanol	U		1.67	3.07
Propene	U		0.368	2.15
Styrene	U		0.341	1.70
1,1,2,2-Tetrachloroethane	U		0.478	1.37
Tetrachloroethylene	U		0.754	1.36
Tetrahydrofuran	U		0.484	0.590
Toluene	U		0.490	1.88
1,2,4-Trichlorobenzene	U		3.42	4.66
1,1,1-Trichloroethane	U		0.391	1.09
1,1,2-Trichloroethane	U		0.372	1.09
Trichloroethylene	U		0.364	1.07
1,2,4-Trimethylbenzene	U		0.455	0.982
1,3,5-Trimethylbenzene	U		0.419	0.982
2,2,4-Trimethylpentane	U		0.420	0.934
Vinyl chloride	U		0.211	0.511
Vinyl Bromide	U		0.328	0.875
Vinyl acetate	U		0.341	2.22
Xylenes, Total	U		0.385	2.61
m&p-Xylene	U		0.754	1.73
o-Xylene	U		0.385	0.867
(S) 1,4-Bromofluorobenzene	*92.6*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4158197-1 12/15/24 08:47 • (LCSD) R4158197-2 12/15/24 09:16

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	8.91	8.70	8.60	97.6	96.5	70.0-130			1.10	25
Benzene	12.0	12.7	12.6	106	106	70.0-130			0.504	25
Benzyl Chloride	19.5	19.4	18.6	99.7	95.5	70.0-152			4.37	25
Bromodichloromethane	25.2	26.2	26.0	104	103	70.0-130			1.03	25
Bromoform	38.8	41.1	38.8	106	100	70.0-130			5.70	25
Bromomethane	14.6	15.1	14.8	104	102	70.0-130			2.08	25

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4158197-1 12/15/24 08:47 • (LCSD) R4158197-2 12/15/24 09:16

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Butadiene	8.30	8.34	8.25	101	99.5	70.0-130			1.07	25
Carbon disulfide	23.3	24.2	23.3	104	99.7	70.0-130			3.93	25
Carbon tetrachloride	23.6	24.8	24.2	105	102	70.0-130			2.57	25
Chlorobenzene	17.3	18.3	18.2	105	105	70.0-130			0.253	25
Chloroethane	9.89	9.84	9.89	99.5	100	70.0-130			0.535	25
Chloroform	18.3	19.2	18.7	105	103	70.0-130			2.56	25
Chloromethane	7.75	7.77	7.48	100	96.5	70.0-130			3.79	25
Cyclohexane	12.9	13.6	13.7	105	106	70.0-130			0.757	25
Dibromochloromethane	31.9	35.0	33.5	110	105	70.0-130			4.47	25
1,2-Dibromoethane	28.8	31.1	30.2	108	105	70.0-130			2.76	25
1,2-Dichlorobenzene	22.5	25.1	24.6	111	109	70.0-130			2.18	25
1,3-Dichlorobenzene	22.5	24.7	23.7	109	105	70.0-130			3.73	25
1,4-Dichlorobenzene	22.5	24.5	23.6	109	105	70.0-130			3.75	25
1,2-Dichloroethane	15.2	15.8	15.7	104	103	70.0-130			0.515	25
1,1-Dichloroethane	15.0	15.6	15.3	104	102	70.0-130			2.33	25
1,1-Dichloroethene	14.9	15.1	14.7	102	98.9	70.0-130			2.92	25
cis-1,2-Dichloroethene	14.9	15.8	14.9	106	100	70.0-130			5.94	25
trans-1,2-Dichloroethene	14.9	15.7	15.1	105	102	70.0-130			3.61	25
1,2-Dichloropropane	17.3	18.0	17.5	104	101	70.0-130			2.60	25
cis-1,3-Dichloropropene	17.0	17.0	17.2	100	101	70.0-130			1.06	25
trans-1,3-Dichloropropene	17.0	18.0	17.7	106	104	70.0-130			1.78	25
Ethanol	7.07	6.79	6.41	96.0	90.7	55.0-148			5.71	25
Ethylbenzene	16.3	17.2	16.9	106	104	70.0-130			2.04	25
4-Ethyltoluene	18.4	20.8	20.2	113	110	70.0-130			2.88	25
Ethyl acetate	13.5	14.4	13.9	106	103	70.0-130			3.05	25
Trichlorofluoromethane	21.1	21.4	20.7	102	98.4	70.0-130			3.20	25
Dichlorodifluoromethane	18.5	18.9	18.3	102	98.9	64.0-139			2.92	25
1,1,2-Trichlorotrifluoroethane	28.7	29.9	29.1	104	101	70.0-130			2.60	25
1,2-Dichlorotetrafluoroethane	26.2	26.9	26.0	103	99.2	70.0-130			3.43	25
Heptane	15.3	16.4	16.2	107	106	70.0-130			1.25	25
Hexachloro-1,3-butadiene	40.0	37.9	36.2	94.7	90.4	70.0-151			4.61	25
n-Hexane	13.2	14.0	13.8	106	105	70.0-130			1.02	25
Isopropylbenzene	18.4	20.2	19.5	110	106	70.0-130			3.72	25
Methylene Chloride	13.0	12.8	12.4	98.4	95.5	70.0-130			3.03	25
Methyl Butyl Ketone	15.3	17.3	16.8	113	110	70.0-149			2.64	25
2-Butanone (MEK)	11.1	11.8	11.2	107	101	70.0-130			5.38	25
4-Methyl-2-pentanone (MIBK)	15.4	17.2	16.7	112	109	70.0-139			2.42	25
Methyl methacrylate	15.4	16.7	16.4	109	107	70.0-130			1.73	25
MTBE	13.5	14.3	13.9	106	103	70.0-130			3.06	25
Naphthalene	19.6	15.6	14.1	79.5	71.7	70.0-159			10.2	25

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4158197-1 12/15/24 08:47 • (LCSD) R4158197-2 12/15/24 09:16

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	9.22	9.34	9.02	101	97.9	70.0-139			3.48	25
Propene	6.46	6.63	6.22	103	96.3	64.0-144			6.43	25
Styrene	31.9	36.9	36.0	116	113	70.0-130			2.45	25
1,1,2,2-Tetrachloroethane	25.8	27.0	26.2	105	102	70.0-130			3.10	25
Tetrachloroethylene	25.5	26.8	27.0	105	106	70.0-130			0.759	25
Tetrahydrofuran	11.1	11.4	11.5	103	104	70.0-137			0.770	25
Toluene	14.1	15.0	15.0	106	106	70.0-130			0.503	25
1,2,4-Trichlorobenzene	27.8	23.8	21.5	85.9	77.3	70.0-160			10.5	25
1,1,1-Trichloroethane	20.4	21.4	21.1	105	103	70.0-130			1.53	25
1,1,2-Trichloroethane	20.4	21.7	21.1	106	103	70.0-130			2.80	25
Trichloroethylene	20.1	21.4	20.9	106	104	70.0-130			2.28	25
1,2,4-Trimethylbenzene	18.4	20.9	20.2	113	110	70.0-130			3.35	25
1,3,5-Trimethylbenzene	18.4	21.1	20.7	115	112	70.0-130			2.12	25
2,2,4-Trimethylpentane	17.5	19.0	18.4	108	105	70.0-130			3.00	25
Vinyl chloride	9.59	9.79	9.41	102	98.1	70.0-130			3.99	25
Vinyl Bromide	16.4	17.2	16.9	105	103	70.0-130			1.54	25
Vinyl acetate	13.2	13.9	12.7	106	96.0	70.0-130			9.52	25
Xylenes, Total	49.1	54.7	53.4	112	109	70.0-130			2.41	25
m&p-Xylene	32.5	36.2	35.0	111	108	70.0-130			3.29	25
o-Xylene	16.3	18.6	18.1	114	111	70.0-130			2.36	25
(S) 1,4-Bromofluorobenzene				*102*	*101*	*60.0-140*				

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GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

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Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

DRAFT

BRAUN INTERTEC

Braun Intertec EDGE Chain-of-Custody Form

Chain-of-custody form is a legal document. Please complete all applicable fields.

M032

Lab Work Order Sticker L1809212

PROJECT INFORMATION			
Project No.:	B1608280.02	MPCA Site ID:	VP8804
Project Name:	Nova Classical Academy	MPCA Task Code:	
Project Manager:	Ken Larsen	MDH Program Code:	
PM Email:	KLarsen@braunintertec.com	MPCA WO No.:	
PM Phone No.:	612-599-1704	Template/Profile:	T#262183
CC Name & Email:	Ben Fedje / BFedje@braunintertec.com	Prelogin/Bottle Order:	P#1118564

LABORATORY			
Lab Name:	Pace National	Turn-Around Time:	☒ Standard ☐ **RUSH**
Lab Address:	12065 Lebanon Road	Date Requested:	
	Mt Juliet, TN 37122	Deliverable(s):	☐ Level II ☐ Level III ☐ Level IV
EPA Lab ID:		Send lab data file to:	☒ Braun Intertec ☐ MPCA
Potential Hazard?	☒ No ☐ Yes	Billing Rate:	☒ Standard ☐ MPCA
If yes, specify in Comments field.			☐ Petrofund ☐ Other:

SAMPLE & ANALYSIS INFORMATION

SAMPLE TYPES: Sample = Sample; QC-FR = Duplicate
SAMPLING METHODS: SW-GAS = Any soil vapor, indoor air, or outdoor air
LAB MATRIX: AR = Air, vapor
FIELD MATRICES: Gas-Soil = Soil gas/vapor; Air-Indoor = Indoor air; Air-Ambnt = Outdoor air

LUI	Sample Name	Sample Type	Start Date mm/dd/yyyy	Start Time 24-hr hh:mm	Depth Start	Depth End	Depth Units	End Date mm/dd/yyyy	End Time 24-hr hh:mm	Sampling Method	Lab Matrix	Field Matrix	Canister ID	Flow Control ID	Start Vacuum	End Vacuum	PID Reading	Canister Size	Comments	Analysis	Minn. TO-15		Lab Sample No.	#
BE00837	VP-1	Sample	12/11/2024	1230	3	5	ft	12/11/2024	1236	SW-GAS	AR	Gas-Soil	23454	13355	-29	0	0	1L			X		-01	1
BE00838	VP-2	Sample	12/11/2024	1229	3	5	ft	12/11/2024	1235	SW-GAS	AR	Gas-Soil	15136	13425	-26	-3	0	1L			X		02	2
BE00839	VP-3	Sample	12/11/2024	1228	3	5	ft	12/11/2024	1235	SW-GAS	AR	Gas-Soil	7970	13399	-30	-4	0	1L			X		03	3
BE00840	VP-4	Sample	12/11/2024	1322	3	5	ft	12/11/2024	1327	SW-GAS	AR	Gas-Soil	14070	28869	-25	-3	2	1L			X		04	4
BE00841	VP-5	Sample	12/11/2024	1327	3	5	ft	12/11/2024	1336	SW-GAS	AR	Gas-Soil	14485	28204	-25	-1	0	1L			X		05	5
BE00842	VP-6	Sample	12/11/2024	1334	3	5	ft	12/11/2024	1340	SW-GAS	AR	Gas-Soil	10593	29179	-29	-4	2	1L			X		06	6
																								7
																								8
																								9
																								10

Sample Receipt Checklist
COC Seal Present/Intact: Y N Airs
COC Signed/Accurate: Y N Size: 6 1L 6L 1.4L
Bottles arrive intact: Y N Tape Color: G W P B
Correct bottles used: Y N Tubing Shunt
Unused: 1 T/P#:

DRAFT

Sampler's Name:	Relinquished by:	Company:	Date/Time:	Received By:	Company:	Date/Time:	Comments:	No. of Coolers/Boxes:
Ben Fedje		Braun	12/11/24 16:25		Pace	12/11/24 1625		
Sampler's Phone: 651-357-6840	Relinquished by:	Company: Pace	Date/Time: 12/12/24 1500	Received By:	Company:	Date/Time:		
Sampler's Signature:	Relinquished by:	Company:	Date/Time:	Received By:	Company: Pace	Date/Time: 12/13 0900		Page 1 of 1

L# L1809212

Fed Ex tracking #	Gun ID	Temperature
4072 9202 0541	N/A	AMB
4072 9202 0552	↓	↓

DRAFT

Elijah Wilson
Name

12/13
Date

Appendix F

References

DRAFT

Report Review References

Phase I Assessment Report, 778 Otto Avenue, St. Paul, Minnesota prepared by Barr Engineering Company dated August 1996.

Voluntary Response Action Plan, Former Tank Farm, Koch Fuels St. Paul Terminal prepared by Barr Engineering Company dated November 1996.

Koch/Mobil Terminal Facilities File Review and Assessment prepared by Nova Environmental Services, Inc. dated October 15, 1996

Koch/Mobil Terminal Facilities Assessment of Development Costs prepared by Nova Environmental Services, Inc. dated March 19, 1997.

Phase I Assessment of Site Conditions, Koch/Mobil Site, St. Paul, Minnesota prepared by Peer Engineering, Inc. dated August 15, 1997.

Work Plan for Additional Investigation, Koch/Mobil Site, St. Paul, Minnesota prepared by Peer Engineering, Inc. dated November 6, 1997.

Subsurface Investigation, Tank Containment Dikes, St. Paul, Minnesota, P.O. #7628 prepared by Soil Exploration Company dated November 1997.

Phase II Results and Focused Feasibility Study, Koch/Mobil Site, St. Paul, Minnesota prepared by Peer Engineering, Inc. dated June 16, 1998.

Response Action Plan and Design Report, Former Koch Otto Avenue Tank Farm, St. Paul, Minnesota prepared by Barr Engineering Company dated August 2001.

Former Tank Farm Area Development and Remedial Action Plan, Flint Hills Resources, Otto Avenue Site, St. Paul, Minnesota, October 21, 2003 (Revised October 30, 2003).

Development Response Action Plan, Koch Tank Farm Area Property, prepared by Peer Engineering, Inc., dated April 28, 2004.

Development and Remedial Action Plan Implementation Report, prepared by Koch, dated May 17, 2004.

Imported Fill Sampling Results, prepared by Peer Engineering, Inc., dated May 3, 2005.

DRAP Implementation – Infrastructure Phase, Koch Tank Farm Area Property, prepared by Peer Engineering, Inc., dated April 17, 2006.

Phase I Environmental Site Assessment, Proposed School, Victoria Park – Former Koch Tank Farm, St. Paul, Minnesota, prepared by Peer Engineering, Inc., dated April 25, 2011.

DRAFT

Phase I Environmental Site Assessment, Proposed School, Victoria Park – Former Koch Tank Farm, St. Paul, Minnesota, prepared by Peer Engineering, Inc., dated September 21, 2011.

Response Action Implementation Report, Nova Classical Academy, 1455 Victoria Way, St. Paul, Minnesota, prepared by Peer Engineering, Inc., dated July 18, 2012.

Phase I Environmental Site Assessment, Nova Classical Academy, 1455 Victoria Way, St. Paul, Minnesota, prepared by Braun Intertec., dated September 29, 2016.

DRAFT

Minnesota Pollution Control Agency

520 Lafayette Road North | St. Paul, Minnesota 55155-4194 | 651-296-6300

800-657-3864 | Use your preferred relay service | info.pca@state.mn.us | Equal Opportunity Employer

October 28, 2016

Mr. Eric Williams
Nova Classical Academy
1455 Victoria Way
St. Paul, MN 55102

RE: Nova Classical Academy
1455 Victoria Way, St. Paul
PIN #142823210043 and #142823210044
MPCA Project Number VP8804
Agency Billing Number 197204
No Association Determination

Dear Mr. Williams:

This letter is in response to the request from Jeff Ellerd of the Board of Directors for Nova Classical Academy in a letter dated October 12, 2016, for a determination under Minn. Stat. § 115B.178 that certain actions proposed to be taken by Friends of Nova Classical Academy and Nova Classical Academy at a 1.15 acre portion of the Nova Classical Academy site, located at the address referenced above (the Site), will not constitute conduct associating Friends of Nova Classical Academy and Nova Classical Academy with the release or threatened release of hazardous substances, pollutants, or contaminants at the Site for the purpose of Minn. Stat. § 115B.03, subd. 3(4) (2016).

The Minnesota Pollution Control Agency (MPCA) staff, in the Voluntary Investigation and Cleanup (VIC) Program, has reviewed the documents submitted for the Site. The Site was first developed as residential and was redeveloped as part of an aboveground petroleum storage tank farm which operated from 1937 to 1995. The entire tank farm was demolished and associated contaminated soil and groundwater was remediated under the MPCA Large Aboveground Storage Tank Program and VIC Program. Portions of the former tank farm have been redeveloped under VIC Program oversight.

Currently there is ongoing groundwater remediation south and east of the Site under the oversight of the MPCA Petroleum Remediation Program; and there is a restrictive covenant dated June 2, 2003, on the Site for hazardous substances which includes lead and chromium contaminated soil that was stabilized, covered with a marker of geotextile fabric, and is covered by 14 to 15 feet of imported fill that meets the MPCA residential Soil Reference Values (SRVs). The restrictive covenant does not restrict the Site to any specific land use as long as the contaminated soil, geotextile fabric, and the one foot of soil capping the fabric and contaminated soil are not disturbed.

Past groundwater sampling has demonstrated that the groundwater in the vicinity of the former tank farm is contaminated with petroleum and non-petroleum volatile organic compounds (VOCs) from releases originating on-site and off-site. Therefore, the VIC Program has required that redevelopments on the former tank farm include designs that: 1) do not disturb the lead and chromium contaminated soil and associated marking and capping materials, and 2) include vapor barriers and venting systems on all

buildings. For the purpose of this letter the identified release at the Site is defined as lead and chromium in the soil at depth (Identified Release).

Based upon a review of the information provided to the MPCA VIC Program, and subject to the conditions set forth in this letter, a determination is hereby made pursuant to Minn. Stat. § 115B.178, subd. 1 that the proposed actions (Proposed Actions) listed below will not associate Friends of Nova Classical Academy and Nova Classical Academy with the Identified Release for the purpose of Minn. Stat. § 115B.03, subd. 3(4) (2016). This determination applies only to the following Proposed Actions:

Proposed Actions for Friends of Nova Classical Academy

- Purchase of the Site;
- Redevelopment of the Site as recreational green-space;
- Construction of formal athletic fields including the installation of an underground irrigation system, grading, and establishment of vegetation;
- Construction of a slab-on-grade addition to the building or slab-on-grade separate stand-alone building, including associated utilities, landscaping and paving; and
- Maintenance of the Site as green-space, athletic fields and a school.

Proposed Actions for Nova Classical Academy

- Leasing of the Site for school use such as green-space, athletic fields, classrooms, offices, maintenance and other school related purposes, provided that Nova Classical Academy does not engage in the business of generating, transporting, storing, treating or disposing of the compounds, or breakdown products of the compounds, comprising the Identified Release; and
- Operation and maintenance of the Site as green-space, athletic fields and a school.

This determination is made in accordance with Minn. Stat. § 115B.178, subd. 1, and is subject to the following conditions:

1. The Proposed Actions shall be carried out as described herein;

2. Friends of Nova Classical Academy and Nova Classical Academy shall cooperate with the MPCA, its employees, contractors, and others acting at the MPCA's direction, in the event that the MPCA takes, or directs others to take, response actions at the Site to address the Identified Release or any other as yet unidentified release or threatened release of a hazardous substance, pollutant, or contaminant, including, but not limited to, granting access to the Site so that response actions can be taken;

3. Friends of Nova Classical Academy and Nova Classical Academy shall avoid actions that contribute to the Identified Release or that interfere with response actions required under any MPCA-approved response action plan to address the Identified Release; and

4. Friends of Nova Classical Academy and Nova Classical Academy shall not disturb the lead and chromium contaminated soil and associated marking and capping materials, or the contaminated groundwater, without the review and written approval by the MPCA of a work plan describing the reason for the actions and the actions to be taken.

Pursuant to Minn. Stat. § 115B.178, subd.1, when Friends of Nova Classical Academy and Nova Classical Academy take the Proposed Actions in accordance with the determination in this letter, subject to the conditions stated herein, the Proposed Actions will not associate Friends of Nova Classical Academy and Nova Classical Academy with the Identified Release for the purpose of Minn. Stat. § 115B.03, subd. 3(4) (2016).

The determination made in this letter applies to Friends of Nova Classical Academy's and Nova Classical Academy's successors and assigns if the successors and assigns: 1) are not otherwise responsible for the Identified Release at the Site; 2) do not engage in activities with respect to the Identified Release which are substantially different from the activities which Friends of Nova Classical Academy and Nova Classical Academy propose to take, as described herein; and 3) comply with the conditions set forth in this letter.

Please be advised that the determination made in this letter is subject to the disclaimers found in Attachment A and is contingent on compliance with the terms and conditions set forth herein.

If you have any questions about the contents of this letter, please contact Lynne Grigor at Lynne.Grigor@state.mn.us or 651-757-2399.

Sincerely,

Gary L. Krueger
Supervisor
Site Remediation & Redevelopment Section
Remediation Division

GLK/LG:bhj

Attachment

cc: Adam Flood, Friends of Nova Classical Academy
Craig Keppler, Lindquist & Vennum
Larry Carlson, Ramsey County

ATTACHMENT A
DISCLAIMERS
Nova Classical Academy
PIN #142823210043 and #142823210044
MPCA Project Number VP8804

1. Reservation of Authorities

The MPCA Commissioner reserves the authority to take any appropriate actions with respect to any release, threatened release, or other conditions at the Site. The MPCA Commissioner also reserves the authority to take such actions if the voluntary party does not proceed in the manner described in this letter or if actions taken or omitted by the voluntary party with respect to the Site contribute to any release or threatened release, or create an imminent and substantial danger to public health and welfare.

2. No MPCA Assumption of Liability

The MPCA, its Commissioner and staff do not assume any liability for any release, threatened release or other conditions at the Site or for any actions taken or omitted by the voluntary party with regard to the release, threatened release, or other conditions at the Site, whether the actions taken or omitted are in accordance with this letter or otherwise.

3. Letter Based on Current Information

All statements, conclusions and representations in this letter are based upon information known to the MPCA Commissioner and staff at the time this letter was issued. The MPCA Commissioner and staff reserve the authority to modify or rescind any such statement, conclusion or representation and to take any appropriate action under his authority if the MPCA Commissioner or staff acquires information after issuance of this letter that provides a basis for such modification or action.

4. Disclaimer Regarding Use or Development of the Property

The MPCA, its Commissioner and staff do not warrant that the Site is suitable or appropriate for any particular use.

5. Disclaimer Regarding Investigative or Response Action at the Property

Nothing in this letter is intended to authorize any response action under Minn. Stat. § 115B.17, subd. 12.

BROWN COLOR WOOD TONE METAL PANEL



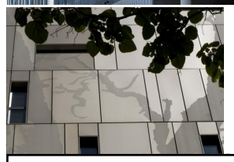


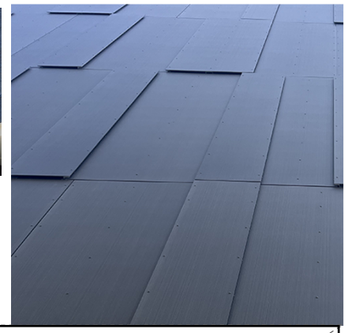
INSPIRATIONAL IMAGES

LIGHT GRAY W/ WHITE FIBER CEMENT PANEL - CONCEALED FASTENING



AFC Lines+ Graphite



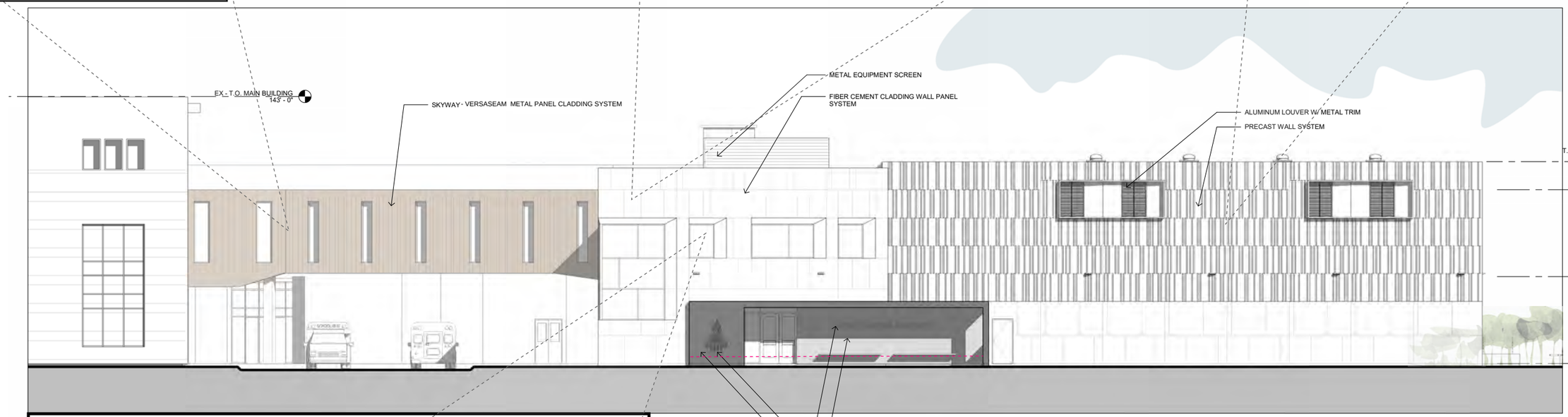


INSPIRATIONAL IMAGES

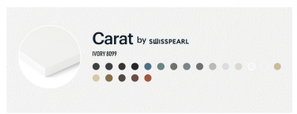
GRAY COLOR or EARTH-COLORED PRECAST CONC.



INSPIRATIONAL IMAGE



NORTHEAST ELEVATION FROM MERCER ST. AND PARKING LOT - NO SCALE

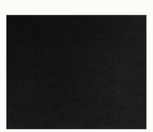


window chamfer - WHITE SWISSPEARL CARET





AFC Carbon Groove+



AFC Carbon Reflect+

full length panel at main canopy

INSPIRATIONAL IMAGE



INSPIRATIONAL IMAGE



chamfer edge detail reference



INSPIRATIONAL IMAGE

Colours
20 standard colours.

Special coating Carat HR (optional)
Carat HR (high-resistance) is a special transparent coating that has a high scratch resistance and offers protection against heavy soiling and graffiti. Carat HR is available in all Carat standard colours.

Ivory 8099 Ivory 8091



INSPIRATIONAL IMAGE

DRAWING NOTES:

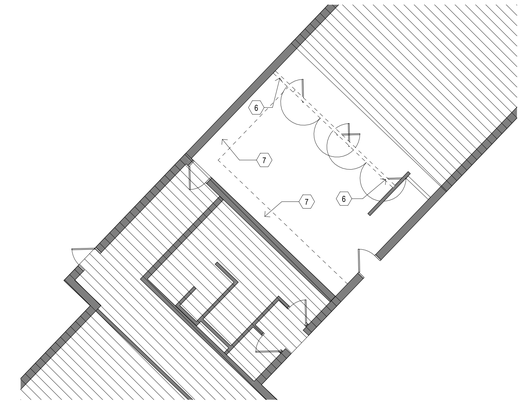
1. DRAWING INTENT IS TO INDICATE CLADDING MATERIALS FOR GMP PRICING.

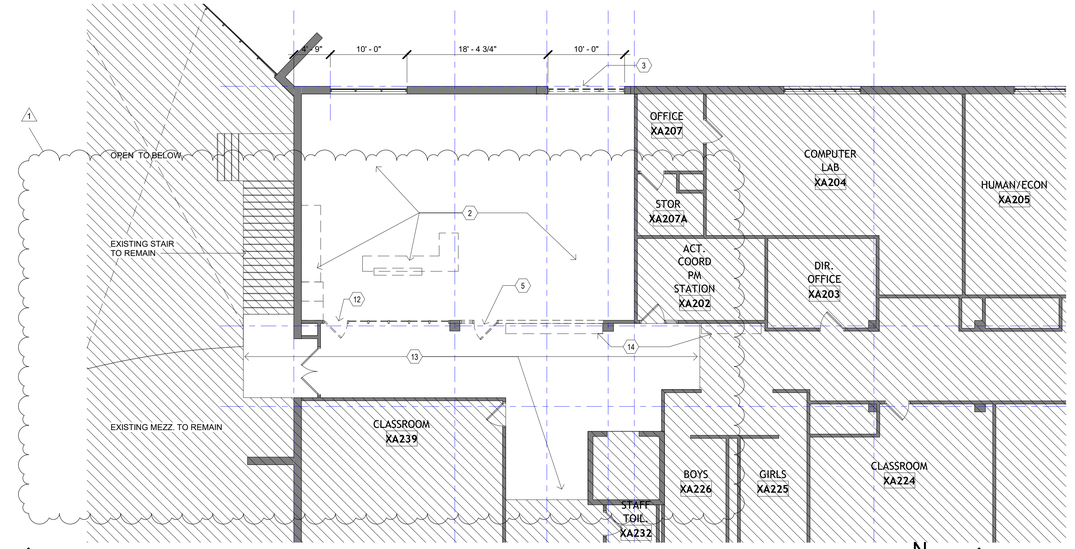
2. SEE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION.

3. FINAL COLOR SELECTIONS ARE YET TO BE MADE BY OWNER AND ARCHITECT. PROVIDE THE FULL RANGE OF STANDARD COLORS FOR EACH PRODUCT FOR OWNER AND ARCHITECT SELECTION.

TITLE: EXTERIOR CLADDING PRODUCT INFORMATION ILLUSTRATION

CLP-01



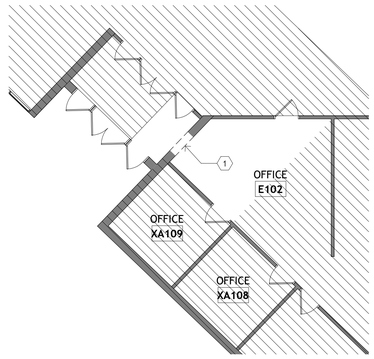


1 EXISTING BUILDING - LEVEL 1 DEMOLITION - FACILITIES ROOM (NEAR EXISTING STAGE)
1/8" = 1'-0"

N PROJECT TRUE

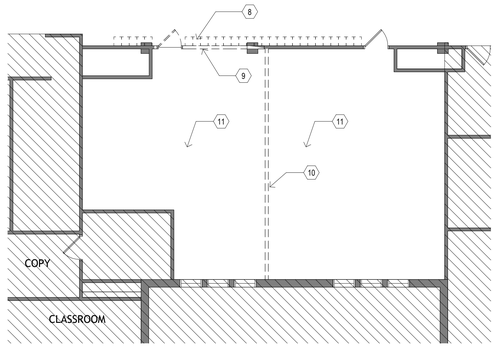
2 EXISTING BUILDING - LEVEL 2 DEMOLITION - OFFICE SUITE
1/8" = 1'-0"

N PROJECT TRUE



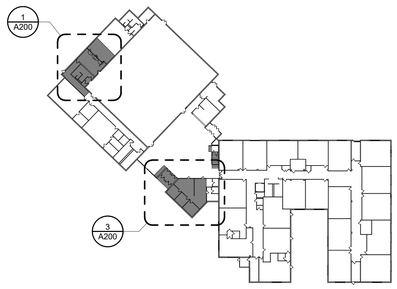
3 EXISTING BUILDING - LEVEL 1 DEMOLITION - ADMIN OFFICES
1/8" = 1'-0"

N PROJECT TRUE

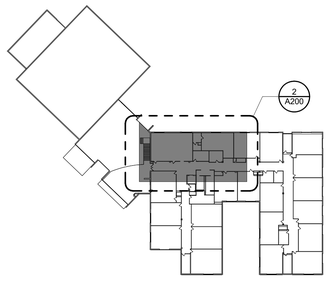


4 EXISTING BUILDING - LEVEL 3 DEMOLITION - EX. HALL
1/8" = 1'-0"

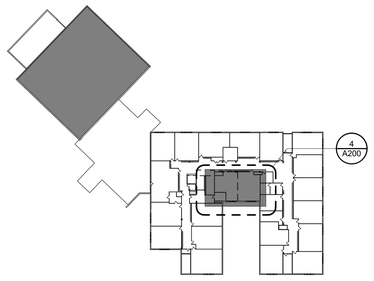
N PROJECT TRUE



5 LEVEL 1 DEMO KEY PLAN
1/64" = 1'-0"



6 LEVEL 2 DEMO KEY PLAN
1/64" = 1'-0"



7 LEVEL 3 DEMO KEY PLAN
1/64" = 1'-0"

GENERAL DEMOLITION NOTES

A. PROVIDE ALL DEMOLITION WORK AS REQUIRED TO COMPLETE THE WORK IN THIS CONTRACT, INCLUDING THAT REQUIRED TO COMPLETE THE WORK SHOWN ELSEWHERE IN THESE DOCUMENTS, BUT NOT SPECIFICALLY IDENTIFIED ON THESE DEMOLITION PLANS.

B. SHADED AREAS ON THE PLAN GENERALLY INDICATE AREA TO CONTAIN NO DEMOLITION WORK. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL RELATED DEMOLITION THAT IS NECESSARY TO COMPLETE ALL WORK THAT IS DIRECTED BY THESE DOCUMENTS, WHETHER OR NOT THAT DEMOLITION WORK IS SPECIFICALLY IDENTIFIED ON THESE DEMOLITION PLANS OR IS LOCATED OUTSIDE THE AREAS OF CONSTRUCTION OR DEMOLITION THAT ARE IDENTIFIED ON THIS PLAN.

C. CONSTRUCTION SHOWN DASHED INDICATES CONSTRUCTION TO BE REMOVED. ALL PARTITIONS SHOWN TO BE DEMOLISHED ARE TO BE REMOVED FROM TOP OF FLOOR SLAB UP TO BOTTOM OF STRUCTURE ABOVE, UNLESS NOTED OTHERWISE. ALL CONSTRUCTION MOUNTED IN OR ON PARTITIONS TO BE REMOVED, SUCH AS DOORS, GLAZING AND OTHER WALL MOUNTED CONSTRUCTION AND FINISHES SHALL BE REMOVED AS A PART OF THE PARTITION DEMOLITION.

D. ALL PRIME CONTRACTORS AND SUBCONTRACTORS SUBMITTING BIDS SHALL CAREFULLY EXAMINE THE ENTIRE SET OF BIDDING DOCUMENTS, VISIT THE SITE OF THE WORK, RECORD THEIR OWN INVESTIGATIONS, AND SHALL BECOME FULLY INFORMED OF THE EXISTING CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK SHALL BE PERFORMED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

• EXISTING BUILDINGS: INCLUDING THE CONDITION OF EXISTING STRUCTURE, LOCATIONS AND CAPACITIES OF EXISTING UTILITIES, AND ANY OBSTACLE OR CONFLICT WHICH MAY BE ENCOUNTERED WHILE COMPLETING THE WORK DESCRIBED IN THE BIDDING DOCUMENTS

• SUBMITTAL OF A BID SHALL BE CONCLUSIVE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION, UNDERSTANDS THE CONTRACT DOCUMENTS IN THEIR ENTIRETY, AND IS FAMILIAR WITH THE SITE CONDITIONS IN WHICH THE WORK SHALL OCCUR. FAILURE TO MAKE SUCH AN EXAMINATION SHALL NOT BE ACCEPTED AS A BASIS FOR CLAIMS FOR ADDITIONAL COMPENSATION OR AN EXTENSION OF TIME.

• IF FIELD CONDITIONS ARE OBSERVED THAT CONFLICT WITH THE INTENTIONS AND FEASIBILITY OF THE WORK DESCRIBED IN THESE DOCUMENTS DURING BIDDING, THE CONTRACTOR/SUBCONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SO THAT THEY MAY MAKE ACCOMMODATIONS THROUGH AN ADDENDUM.

• SUBMISSION OF BID ALSO PRESUMES THAT ALL REQUIRED DEMOLITION WORK, WHETHER OR NOT IT HAS BEEN SPECIFICALLY IDENTIFIED BY THESE DOCUMENTS OR BY ADDENDUM, HAS BEEN INCORPORATED INTO THE BIDDER'S BID PROPOSAL.

E. WHERE FINISHES ARE TO BE REMOVED FROM EXISTING SUBSTRATES AND SUBSTRATES ARE SCHEDULED TO RECEIVE NEW FINISHES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING ADHESIVES, ATTACHMENTS, FASTENERS AND OTHER COATINGS THAT WILL INTERFERE WITH THE INSTALLATION OR ADHESION OF NEW FINISHES. THE CONTRACTOR SHALL PREPARE ALL EXISTING SURFACES TO PROVIDE SUBSTRATES THAT ARE ACCEPTABLE FOR THE NEW FINISH INSTALLER. AT EXISTING CONCRETE FLOOR SLABS WHERE SLAB IS DAMAGED DUE TO THE REMOVAL OF EXISTING FINISHES, THE CONTRACTOR SHALL PATCH ALL DAMAGE OF THE EXISTING SLAB WITH CONCRETE TOPPING TO PROVIDE A SMOOTH AND EVEN SUBSTRATE FOR NEW FINISHES.

F. SEE MECHANICAL/ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR WORK THAT REQUIRES ADDITIONAL DEMOLITION AND PATCHING. PROVIDE ALL DEMOLITION AS REQUIRED TO PERFORM THE SCHEDULED WORK AND REINSTALL ALL EXISTING CONSTRUCTION AND FINISHES TO MATCH PREVIOUS CONDITIONS WHERE POSSIBLE. IF NOT POSSIBLE, PATCH IN NEW CONSTRUCTION TO MATCH EXISTING CONDITITIONS.

G. PATCH ALL EXISTING AND NEW PENETRATIONS THROUGH EXISTING FIRE OR SMOKE RATED FLOOR SLABS AND PARTITIONS, USING U.L. LISTED MATERIALS THAT ARE REQUIRED TO MAINTAIN ALL EXISTING FIRE RATINGS.

H. SEE ALSO REFLECTED CEILING PLANS FOR ADDITIONAL REMOVAL AND REINSTALLATION OF EXISTING SUSPENDED ACOUSTICAL CEILINGS AS REQUIRED FOR NEW CONSTRUCTION.

I. WHERE EXISTING CEILINGS ARE SHOWN TO BE REMOVED AND REINSTALLED, SALVAGE ALL FIRE ALARM AND NOTIFICATION DEVICES, INCLUDING SMOKE DETECTORS, STROBES, ALARMS, ETC. CONTRACTOR MAY REINSTALL THOSE DEVICES THAT ARE FULLY FUNCTIONAL. IF IT IS NOT POSSIBLE TO REINSTALL EXISTING SYSTEM COMPONENTS, THE CONTRACTOR SHALL PROVIDE NEW MATCHING DEVICES THAT ARE COMPATIBLE AND WARRANTABLE WITH THE EXISTING SYSTEM WHICH SHALL PROVIDE A FULLY FUNCTIONAL, CODE-COMPLIANT FIRE DETECTION/ NOTIFICATION SYSTEM.

J. PATCHING: WHERE DEMOLITION OR CUTTING WORK HAS OCCURRED OR WHERE EXISTING CONSTRUCTION HAS BEEN REMOVED, DAMAGED OR DISTURBED AS A PART OF THIS WORK, THE SAID SURFACES SHALL BE CLOSED UP, PATCHED, FINISHED AND RESTORED AS REQUIRED TO MATCH CONTIGUOUS SURFACES AND FINISHES.

K. PROTECTION OF EXISTING CONSTRUCTION: ALL CONSTRUCTION INDICATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL RETURN ALL EXISTING CONSTRUCTION TO THE CONDITION FOUND PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION, WHETHER OR NOT IT IS SPECIFICALLY INDENTIFIED ON THE DRAWINGS TO REMAIN. UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL SUCH DAMAGED ITEMS AT THE OWNER'S DISCRETION

L. SALVAGE: BEFORE COMMENCING ANY DEMOLITION WORK, THE CONTRACTOR SHALL CONTACT THE OWNER TO CONFIRM THEIR INTENT REGARDING THE SALVAGE, REUSE AND FINAL DISPOSITION OF ANY EXISTING ITEMS OF EQUIPMENT OR MATERIAL NOT USED IN THIS PROJECT, INCLUDING ALL WALL & CEILING MOUNTED EQUIPMENT (WHITEBOARDS, HEADWALL UNITS, CAMERAS, ETC.)

M. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND IDENTIFYING EXISTING UTILITY LINES PRIOR TO BEGINNING DEMOLITION. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DOCUMENTS FOR PROTECTION AND PATCHING OF EXISTING UTILITIES

N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING PIPING, CONDUIT AND OTHER UTILITY LINES, AND THEIR HANGERS OR SUPPORTS WHICH ARE ABANDONED BY THE WORK DESCRIBED IN THESE DOCUMENTS OR THOSE THAT HAVE BEEN PREVIOUSLY ABANDONED AND LEFT IN PLACE, LOCATED IN ALL CONSTRUCTION AREAS, UNLESS NOTED OTHERWISE. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR EXTENT OF REMOVAL AND THE CAPPING OFF OR TERMINATION OF EXISTING LINES

O SEE STRUCTURAL DRAWINGS FOR INFORMATION REGUARDING DEMOLITION OF EXISTING STRUCTURAL SYSTEMS AND SHORING REQUIREMENTS

DEMOLITION PLAN KEYNOTES

Keynote Number	Keynote Description
1	REMOVE EXISTING WINDOW BETWEEN OFFICE AND VESTIBULE, ENLARGE/PREPARE OPENING AS REQUIRED TO FIT SCHEDULE DOOR AND FRAME, REMOVE ANY EXISTING CASEWORK AFFIXED TO THIS WALL, AND PATCH ALL SURFACES AS REQUIRED
2	DEMOLISH ALL EXISTING PARTITIONS, CASE WORK, SYSTEMS FURNITURE, FLOOR FINISH AND CEILING FINISH IN THIS AREA, PREPARE AS REQUIRED FOR NEW CONSTRUCTION, INCLUDING NEW RAMP AND WALLS, SEE PLAN
3	REMOVE EXISTING WINDOW SYSTEM AT EXISTING PRECAST WALL PANEL AND MODIFY PANELS AS REQUIRED FOR NEW SKYWAY, SEE PLANS
5	REMOVE HM DOOR AND FRAME. DEMOLISH EXISTING WALL DOWN TO 9'-0" AFF. RETAIN AND PROVIDE BOXED HEADER TO STRUCTURALLY SUPPORT THE REMAINING UPPER PORTION TO SERVE AS A BULKHEAD FOR CEILING HEIGHT TRANSITION. PATCH AS REQUIRED TO PREPARE ALL IMPACTED SUBSTRATES FOR SCHEDULED FINISHES.
6	DEMOLISH EXISTING WING WALLS AND GYP BD FRAMED HEADER AT TOP OF STAGE OPENING IN THEIR ENTIRETY DOWN TO THE TOP OF STAGE ELEVATION, RELOCATE EXISTING ELECTRICAL PANEL AND ALL ASSOCIATED CONDUITS AND FEEDERS AS REQUIRED TO ACCOMMODATE NEW STAIR AND MEZZANINE.
7	DEMOLISH WALL MOUNTED SHELVING
8	DEMOLISH LOCKERS +/- 150 LOCKERS IN VARIOUS LOCATIONS THROUGHOUT THIRD FLOOR, PATCH FLOOR AND WALL FINISHES AS REQUIRED TO MATCH EXISTING
9	REMOVE EXISTING DOOR AND ENLARGE OPENING IN EXISTING WALL, PATCH AS REQUIRED TO PREPARE ALL IMPACTED SUBSTRATES FOR SCHEDULED FINISHES.
10	DEMOLISH EXISTING OPERABLE PARTITION AND ALL ASSOCIATED INSTALLATION ACCESSORIES, PREPARE STRUCTURE/ADJACENT SURFACES TO ACCOMMODATE NEW PARTITION WALL, SEE PLAN.
11	DEMOLISH EXISTING CEILING AND ALL ASSOCIATED INSTALLATION ACCESSORIES FOR NEW MEP WORK AND CEILING, SEE RCP.
12	REMOVE EXISTING STOREFRONT WINDOW SYSTEM AND PREP AS REQ'D FOR NEW INFILL WALL.
13	REMOVE EXISTING FLOORING AND PREP AS REQ'D FOR NEW FLOORING
14	REMOVE EXISTING LOCKERS AND SALVAGE FOR RE USE.

DEMOLITION CEILING PLAN NOTES:

A. PROVIDE ALL DEMOLITION WORK AS REQUIRED TO COMPLETE THE WORK IN THIS CONTRACT, INCLUDING THAT WORK THAT IS REQUIRED TO COMPLETE ALL WORK SHOWN ELSEWHERE IN THESE DOCUMENTS, BUT NOT SPECIFICALLY IDENTIFIED ON THESE PLANS.

B. SEE MECHANICAL AND ELECTRICAL PLANS FOR WORK REQUIRING ADDITIONAL CEILING WORK THAT IS REQUIRED TO BE PERFORMED TO COMPLETE IT. SEE MECHANICAL AND ELECTRICAL PLANS FOR EXTENT OF THE REMOVAL AND CAPPING OF EXISTING UTILITY, AND ELECTRICAL LINES, DUCTWORK, ETC.

C. AREAS ON CEILING PLANS THAT ARE DENSELY HATCHED INDICATE EXISTING CEILINGS, LIGHTING AND OTHER CEILING MOUNTED ITEMS THAT ARE SCHEDULED TO REMAIN AND RECEIVE NO ADDITIONAL WORK, UNLESS NOTED OTHERWISE.

D. PROTECTION OF EXISTING CONSTRUCTION: ALL CONSTRUCTION INDICATED AS REMAINING IS TO BE PROTECTED FROM DAMAGE FROM ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING EXISTING CONSTRUCTION INDICATED AS REMAINING TO THE CONDITION FOUND PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS TO REPAIR OR REPLACE ALL DAMAGED ITEMS AT THE OWNER'S DISCRETION.

E. AT EXISTING CEILINGS THAT ARE INDICATED TO BE REMOVED AND NOT REINSTALLED, REMOVE THE ENTIRE CEILING SYSTEM; INCLUDING, BUT NOT LIMITED TO, THE TILES, SUSPENSION GRID, LIGHTING AND OTHER CEILING MOUNTED ITEMS, HANGERS, WIRES AND OTHER SUPPORT STRUCTURES. CEILING COMPONENTS MAY BE SALVAGED FOR REUSE IN OTHER AREAS FOR PATCHING IF THEY MATCH THOSE CEILINGS AND REMAIN UNDAMAGED.

F. EXISTING CEILINGS THAT ARE INDICATED ON THESE PLANS TO REMAIN, BUT ARE REQUIRED TO BE REMOVED IN ORDER TO PERFORM WORK IDENTIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS SHALL BE DISASSEMBLED, SALVAGED, AND THEN REINSTALLED TO THEIR ORIGINAL CONDITION PRIOR TO THE START OF WORK. SALVAGE ONLY THOSE CEILING COMPONENTS WHICH REMAIN IN UNDAMAGED AND CLEAN CONDITION. DO NOT REINSTALL CEILING TILES THAT ARE STAINED, WHICH HAVE ABRASIONS, CRACKS OR OTHER SURFACE IMPERFECTIONS. DISCARD OTHER DAMAGED AND UN-REPAIRABLE CEILING COMPONENTS. IF THERE ARE NOT SUFFICIENT SALVAGED COMPONENTS TO COMPLETE PATCHING AND REINSTALLATION OF THE EXISTING CEILING, PROVIDE NEW CEILING COMPONENTS MATCHING THE EXISTING CEILING.

G. PROTECTION OF SALVAGED ITEMS: THE CONTRACTOR IS TO REMOVE AND STORE ITEMS INDICATED AS BEING REMOVED AND REUSED, AND STOCKPILE THEM IN A SECURE LOCATION ON SITE AS TO PROTECT FROM THEM FROM CONSTRUCTION DAMAGE UNTIL THEY ARE TO BE REINSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING SUCH ITEMS THAT ARE EITHER DAMAGED OR MISPLACED.

BLOOM HAY DOBBS

Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
Tel. 612.338.4900

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY
ST. PAUL, MN 55102
Phone: 651.209.6320

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY IMPROVEMENTS & EXPANSION
Project Number: 23008.003
Date: 05/07/2025

Rev. 1
Date: 2025 07 29
Desc.ADDENDUM 1

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PRINT NAME

SIGNATURE

LICENSE NO.

05/07/2025
DATE

DD DOCUMENT Not For Construction

SHEET TITLE:
SELECTIVE DEMOLITION PLANS

SHEET NUMBER:

A200

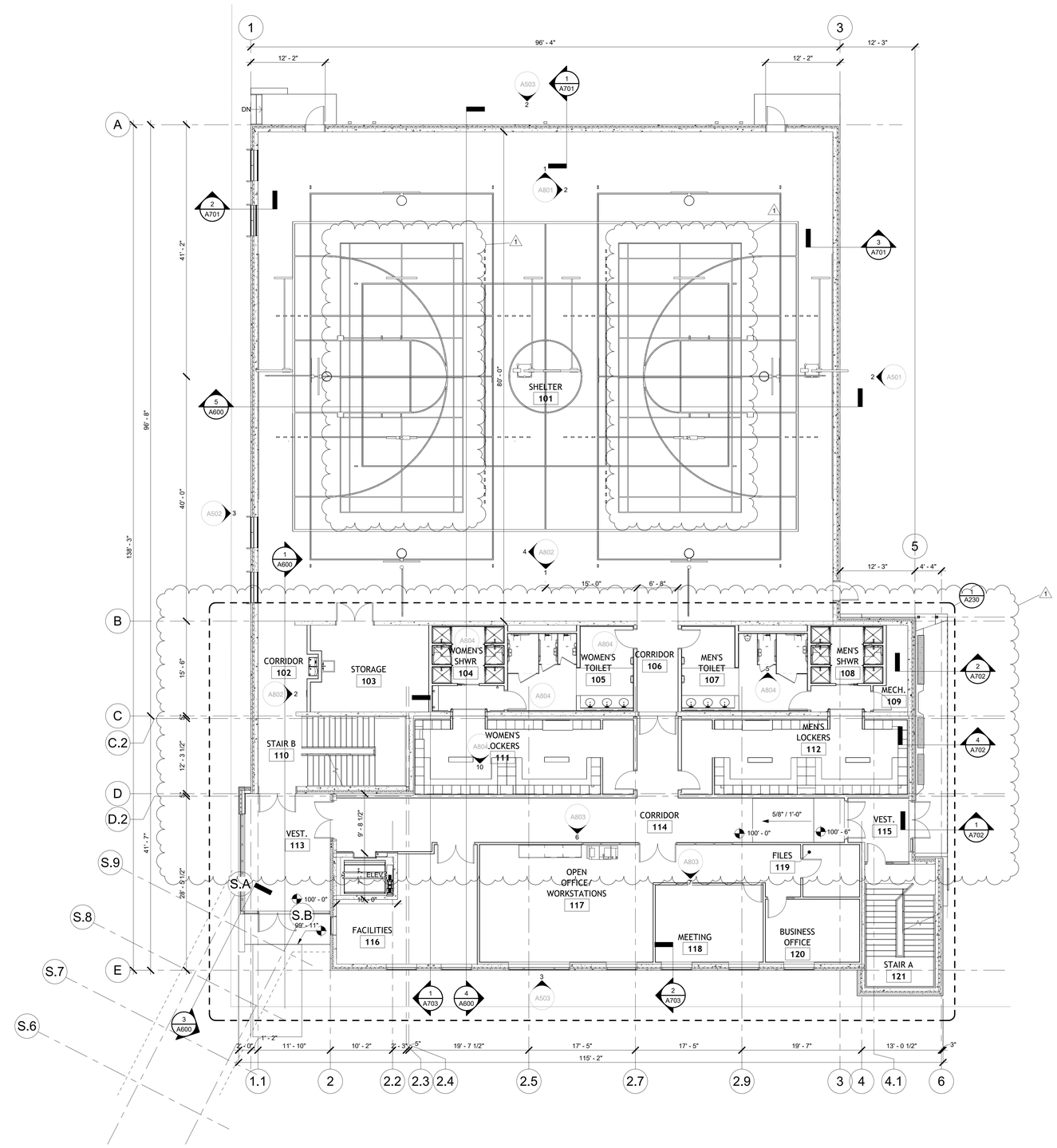
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FLOOR PLAN NOTES

1. FINISH FLOOR ELEVATION(FFE) 100'-0" EQUALS 787.50' ON THE CIVIL DRAWINGS.
2. PENETRATIONS THROUGH NON-RATED FLOORS, WALLS AND OTHER ASSEMBLIES SHALL BE SEALED AT BOTH SIDES WITH MATERIALS APPROPRIATE TO THE ASSEMBLY CONSTRUCTION TO REDUCE SOUND TRANSMISSION.
3. PENETRATIONS THROUGH FIRE-RATED FLOORS, WALLS, AND OTHER ASSEMBLIES SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UL OR OTHER APPROVED LISTINGS AND MATCH THE RATING OF THE CONSTRUCTION BEING PENETRATED.
4. PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS (INCLUDING, BUT NOT LIMITED TO, MARKER BOARDS, SIGNAGE, CASEWORK, MILLWORK, AND TOILET ACCESSORIES).
5. PROVIDE BLOCKING AT RAILINGS AND GUARDRAILS CAPABLE OF SUPPORTING THE POINT AND UNIFORM LOADS REQUIRED BY CODE.
6. VERIFY CLEARANCES REQUIRED FOR INSTALLATION OF RECESSED OR SEMI-RECESSED EQUIPMENT AND FIXTURES (E.G. CABINETS, DISPENSERS, PANELS, ETC.). NOTIFY ARCHITECT IMMEDIATELY IF SPECIFIED WALL TYPES DO NOT PROVIDE ADEQUATE SPACE FOR PROPER INSTALLATION.
7. FLOOR PLAN DIMENSIONS ARE LOCATED FROM THE FINISHED FACE OF PARTITIONS, UNLESS NOTED OTHERWISE.
8. MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
9. DO NOT SCALE DRAWINGS; DIMENSIONS SHALL GOVERN.
10. REFER TO SHEET A804 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND ACCESSORIES.
11. REFER TO SHEET A300 FOR INTERIOR PARTITION TYPE INFORMATION.
12. EXTERIOR WALL CONSTRUCTION SHOWN ON WALL SECTIONS.
13. LOCATE DOOR FRAMES 4" CLEAR FROM ADJACENT PERPENDICULAR WALLS UNLESS NOTED OTHERWISE.
14. SEE SHEET A801~A806 FOR INTERIOR ELEVATION.
15. SEE SHEET A710, A711 & A712 FOR STAIR INFORMATION.

WALL TYPE TAGS

1A INTERIOR PARITITION TYPE SCHEDULE, SEE A300



1 FIRST FLOOR PLAN - SHELTER
1/8" = 1'-0"

PROJECT TRUE

BLOOM HAY DOBBS

Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
Tel. 612.338.4990

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY
ST. PAUL, MN 55102
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SHEET TITLE:
LEVEL 1 FLOOR PLAN - SHELTER

SHEET NUMBER:

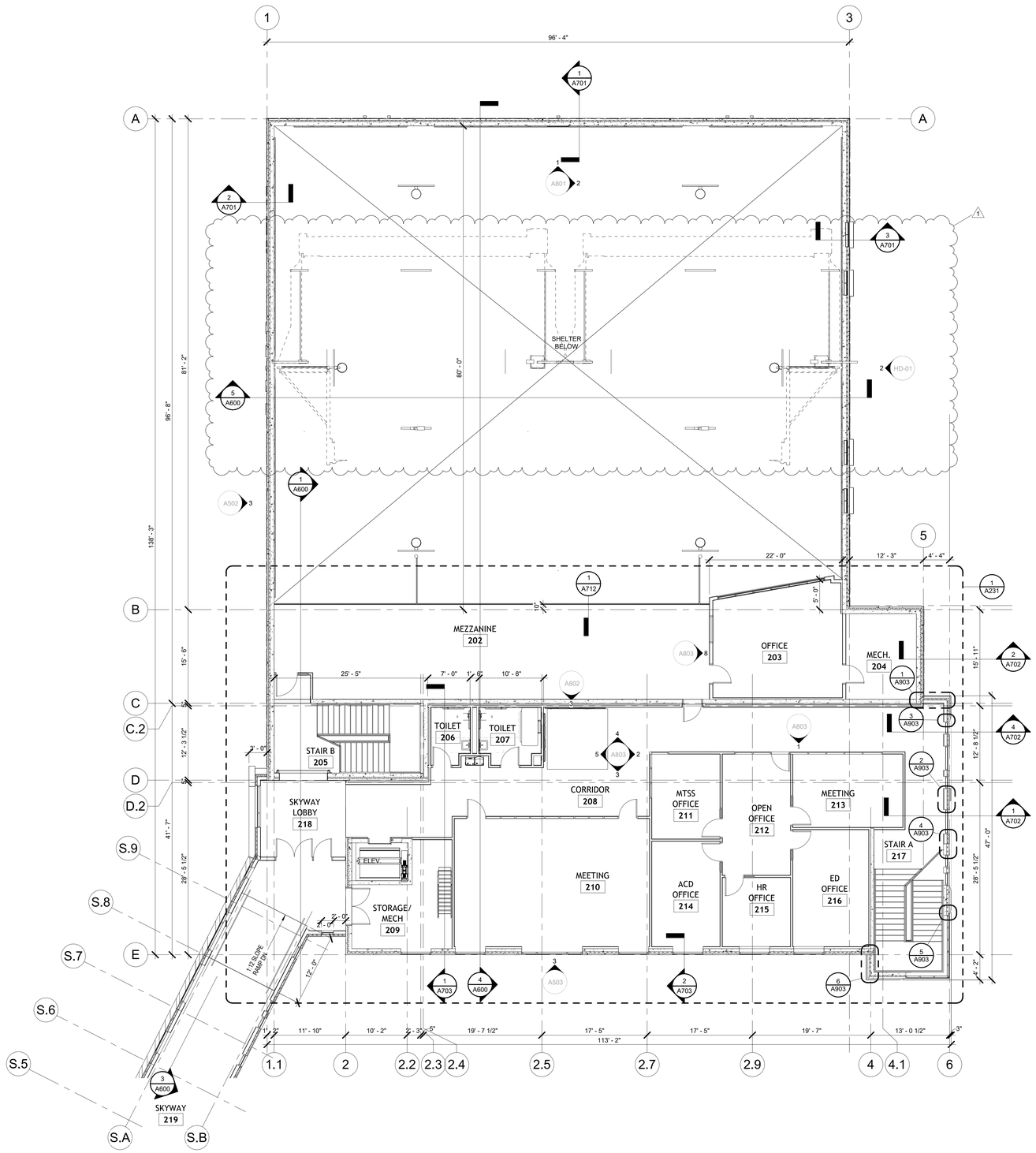
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FLOOR PLAN NOTES

1. FINISH FLOOR ELEVATION (TYP.) 100'-0" EQUALS 787.50' ON THE CIVIL DRAWINGS.
2. PENETRATIONS THROUGH NON-RATED FLOORS, WALLS AND OTHER ASSEMBLIES SHALL BE SEALED AT BOTH SIDES WITH MATERIALS APPROPRIATE TO THE ASSEMBLY CONSTRUCTION TO REDUCE SOUND TRANSMISSION.
3. PENETRATIONS THROUGH FIRE-RATED FLOORS, WALLS, AND OTHER ASSEMBLIES SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UL OR OTHER APPROVED LISTINGS AND MATCH THE RATING OF THE CONSTRUCTION BEING PENETRATED.
4. PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS (INCLUDING, BUT NOT LIMITED TO, MARKER BOARDS, SIGNAGE, CASEWORK, MILLWORK, AND TOILET ACCESSORIES).
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14. SEE SHEET A801~A806 FOR INTERIOR ELEVATION.
15. SEE SHEET A710, A711 & A712 FOR STAIR INFORMATION.

WALL TYPE TAGS



1 LEVEL 2 FLOOR PLAN - SHELTER
1/8" = 1'-0"

N
PROJECT TRUE

BLOOM HAY DOBBS

Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
Tel. 612.338.4990

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY
ST. PAUL, MN 55102
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SHEET TITLE:
LEVEL 2 FLOOR PLAN - SHELTER

SHEET NUMBER:

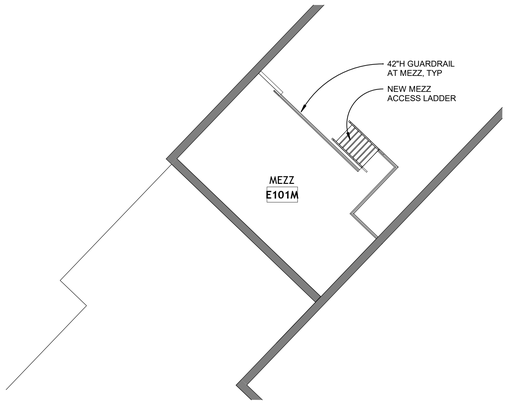
A211A

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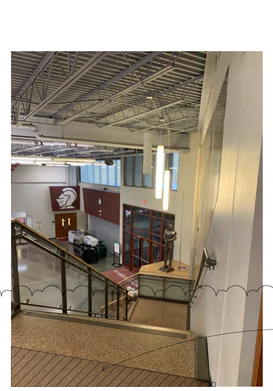
FLOOR PLAN NOTES

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14. SEE SHEET A801~A806 FOR INTERIOR ELEVATION.
15. SEE SHEET A710, A711 & A712 FOR STAIR INFORMATION.

WALL TYPE TAGS



2 SECOND FLOOR PLAN - MEZZANINE AT EXISTING
1/8" = 1'-0"



PROVIDE NEW RT-3 (TERRAZZO FLOOR TILE) AT STAIR TOP LANDING



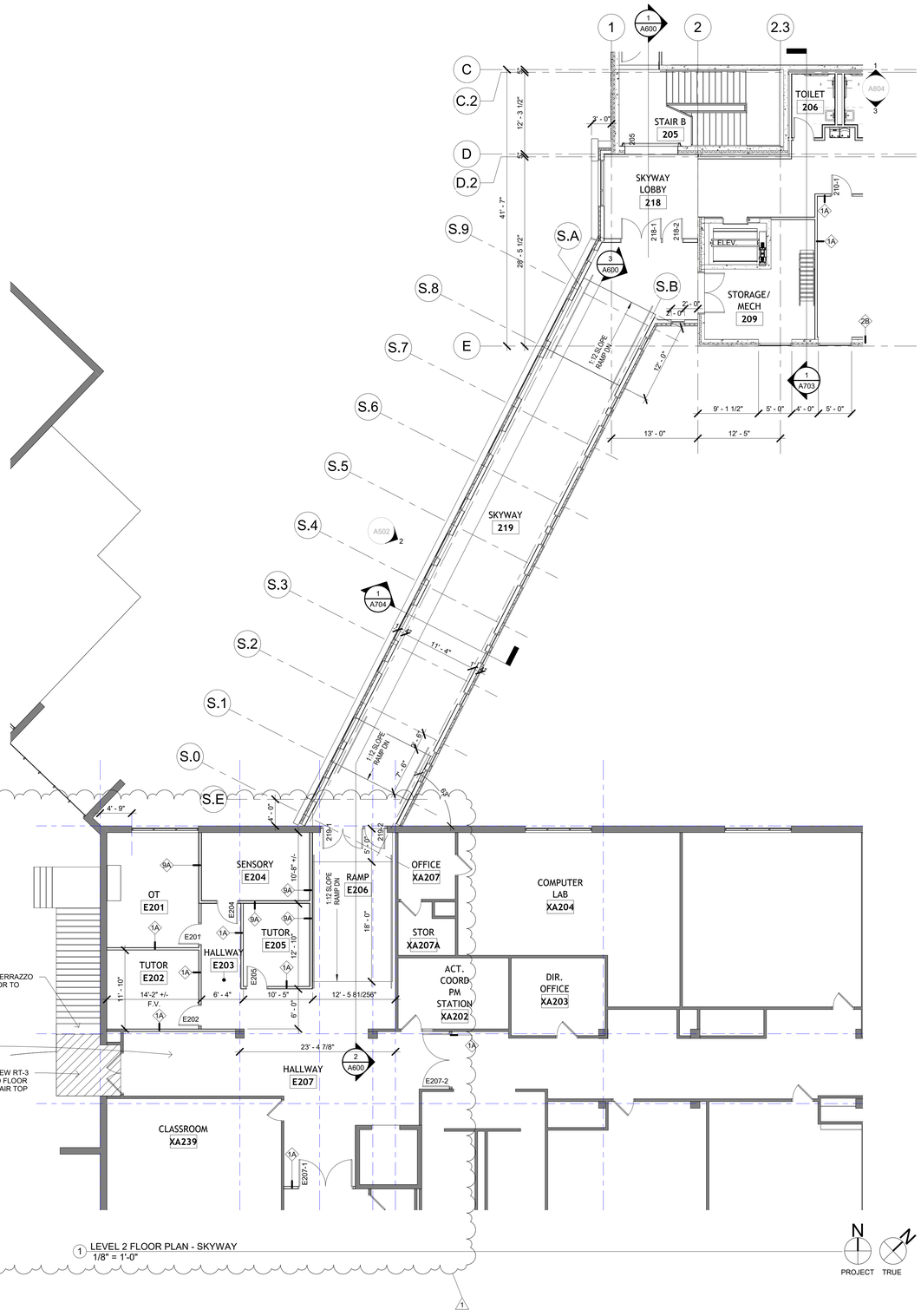
PROVIDE NEW DOOR E207-2

EXISTING TERRAZZO STAIR FLOOR TO REMAIN

PROVIDE NEW FLOORING AT ROOM E207

PROVIDE NEW RT-3 (TERRAZZO FLOOR TILE) AT STAIR TOP LANDING

3 EXISTING PHOTOS
1 1/2" = 1'-0"



1 LEVEL 2 FLOOR PLAN - SKYWAY
1/8" = 1'-0"

BLOOM HAY DOBBS

Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
Tel. 612.338.4590

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY
ST. PAUL, MN 55102
Phone: 651.209.6320

CONSULTANT

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SHEET TITLE:
LEVEL 2 FLOOR PLAN - SKYWAY AND EXSITING BUILDING

SHEET NUMBER:

A211B

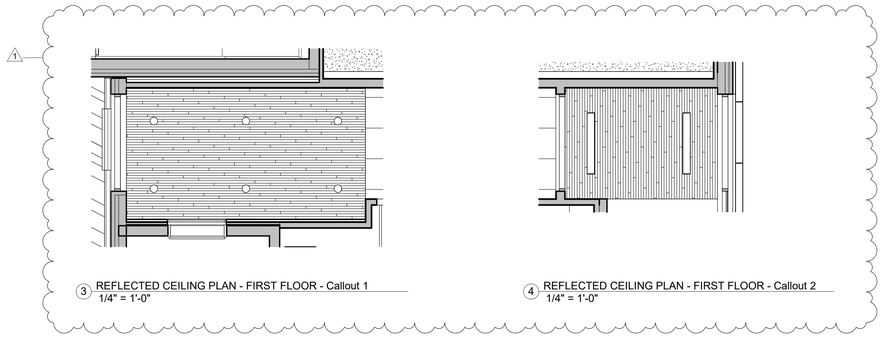
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CEILING PLAN GENERAL NOTES

1. SEE FINISH SCHEDULE FOR CEILING HEIGHTS, UNLESS NOTED OTHERWISE ON CEILING PLANS. **WHERE CONFLICTS ARISE BETWEEN CEILING HEIGHT, STRUCTURAL, AND MECHANICAL, NOTIFY ARCHITECT IMMEDIATELY.**
2. MECHANICAL INFORMATION SHOWN IS INTENDED TO COMMUNICATE DESIGN INTENT. REFER TO **MECHANICAL PLANS FOR ADDITIONAL CEILING MOUNTED ITEMS, INCLUDING, BUT NOT LIMITED TO, EXHAUST FANS, GRILLES, SPRINKLERS, DUCTWORK, ETC.** NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES NOTED PRIOR TO COMMENCEMENT OF WORK.
3. ELECTRICAL INFORMATION SHOWN IS INTENDED TO COMMUNICATE DESIGN INTENT. REFER TO **ELECTRICAL PLANS FOR ADDITIONAL CEILING MOUNTED ITEMS, INCLUDING, BUT NOT LIMITED TO, OCCUPANCY SENSORS, WIRELESS ACCESS POINTS, FIRE/SMOKE DETECTION DEVICES, SECURITY DEVICES AND CAMERAS**. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES NOTED PRIOR TO COMMENCEMENT OF WORK.
4. COORDINATE CEILING MOUNTED EQUIPMENT SUPPORTS, DEVICE LOCATIONS, CLEARANCES, ETC. WITH EQUIPMENT INSTALLERS AND SUPPLIERS PRIOR TO INSTALLATION.
5. ACOUSTICAL PANEL CEILING GRIDS OR PANELS SHALL BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED OR DIMENSIONED.
6. CEILING MOUNTED ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, SPEAKERS, ETC.) SHALL BE CENTERED IN ACOUSTICAL CEILING PANELS OR GYPSUM BOARD SOFFITS UNLESS OTHERWISE NOTED OR DIMENSIONED. **IN GYPSUM BOARD CEILINGS, COORDINATE FINAL LOCATION WITH ARCHITECT AND MECHANICAL/ELECTRICAL IF NOT SPECIFICALLY DIMENSIONED**
7. SPACE LIGHT FIXTURES EVENLY IN ROOMS, BAYS, SPACES, ETC. AND CENTER BETWEEN EXPOSED STRUCTURAL ELEMENTS WHERE APPROPRIATE.
8. DIMENSIONS TO CEILING-INSTALLED ITEMS ARE TO CENTERLINE OF FIXTURE OR EQUIPMENT UNLESS NOTED OTHERWISE.
9. LOCATE CONTROL JOINTS IN GYPSUM BOARD CEILINGS, SOFFITS, BULKHEADS, AND FASCIAS AS INDICATED ON DRAWINGS OR AS SPECIFIED AND TO ALIGN WITH THOSE IN WALLS BELOW. VERIFY PROPOSED LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION.
10. **UNLESS SPECIFICALLY NOTED OR DIMENSIONED OTHERWISE, ALL GYPSUM BOARD FRAMED SOFFITS AND HEADERS ARE TO BE LOCATED 12" BELOW LOWEST ADJACENT CEILING, GYPSUM FINISHES ARE TO EXTEND TO 12" ABOVE CEILING, MIN.**
11. PAINT CONDUITS, DUCTWORK, SUPPORTS, HANGERS, ETC. THAT WILL REMAIN EXPOSED TO VIEW. MATCH COLOR INDICATED FOR STRUCTURE UNLESS NOTED OTHERWISE.
12. IN EXISTING BUILDING, WHERE WALL OR CEILING IS REMOVED, PATCH CEILING TO MATCH ADJACENT FINISH. SEE SHEET A200 FOR ADD'L NOTES.

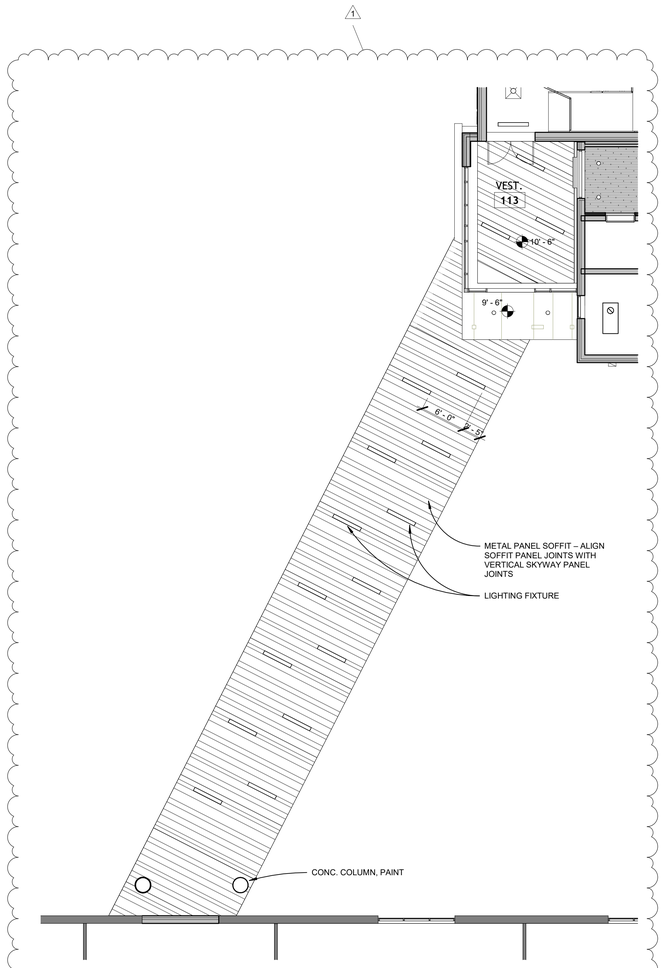
CEILING PLAN SYMBOL LEGEND

- ACT - 2'x2', 2'x4'
- HD CEMENT PANEL CEILING/ SOFFIT
- GWB
- PERFORATED METAL PANEL CEILING
- METAL PANEL CEILING/ SOFFIT
- WOOD GRILLE CEILING
- LIGHTING FIXTURE - WALL MOUNTED
- FIRE SPRINKLER
- EXIT LIGHT
- LINEAR PENDANT
- OS — OCCUPANCY SENSOR
- LAY-IN LIGHT FIXTURE
- CEILING ACCESS PANEL
- WALL MOUNTED EMERGENCY LIGHT
- CEILING GRILLE SUPPLY
- CEILING MOUNTED CLOSED CIRCUIT CAMERA
- CEILING GRILLE RETURN
- CEILING BAFFLES

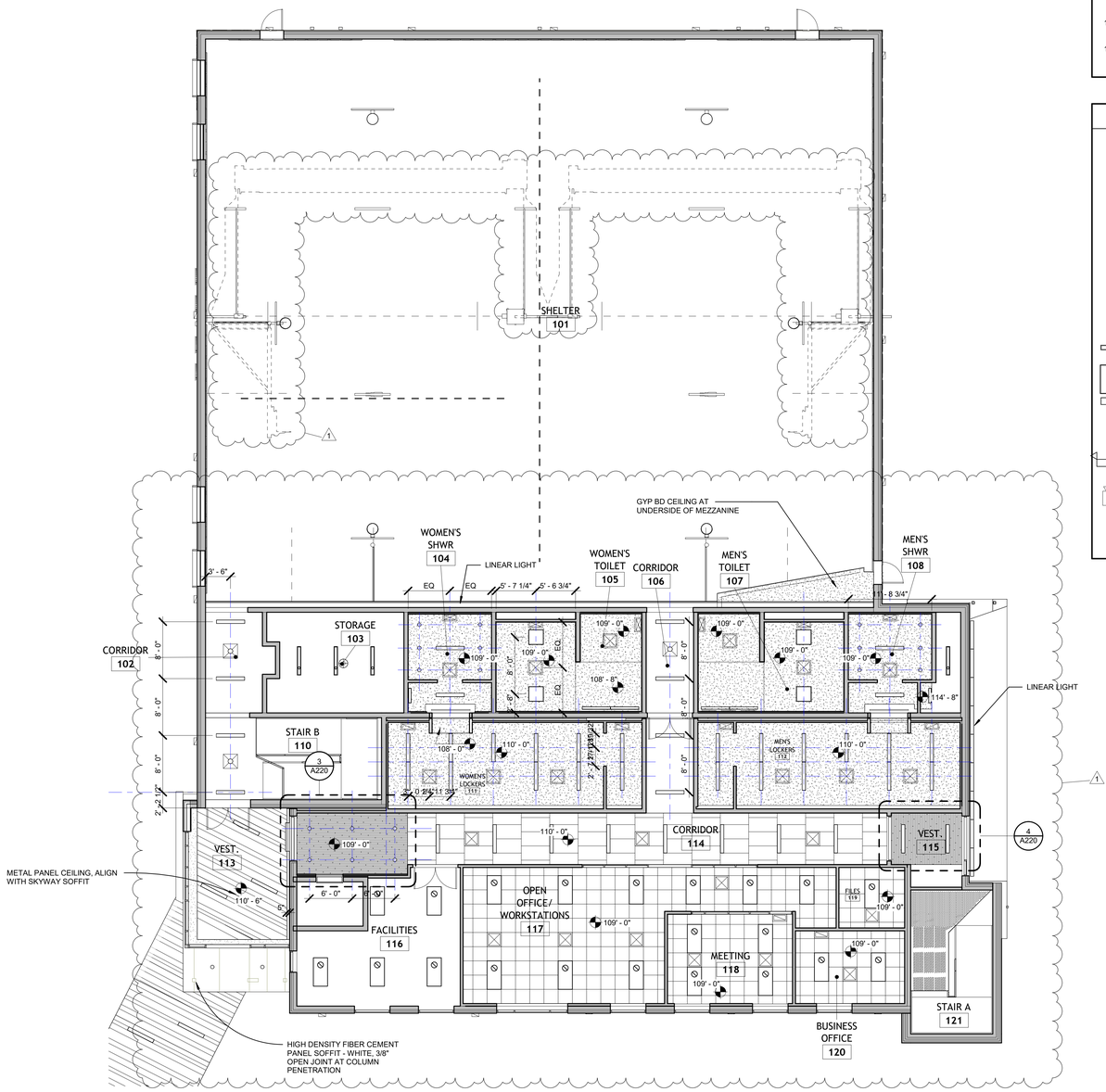


3 REFLECTED CEILING PLAN - FIRST FLOOR - Callout 1
1/4" = 1'-0"

4 REFLECTED CEILING PLAN - FIRST FLOOR - Callout 2
1/4" = 1'-0"



1 REFLECTED CEILING PLAN SKY WAY - FIRST FLOOR
1/8" = 1'-0"



2 REFLECTED CEILING PLAN - FIRST FLOOR
1/8" = 1'-0"

PROJECT TRUE N

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Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
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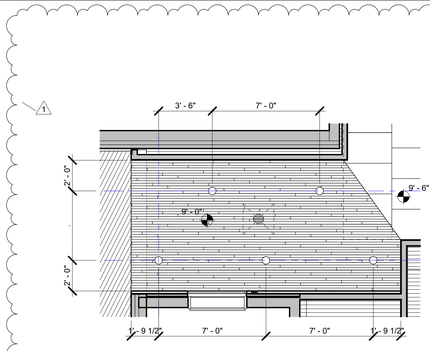
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SHEET TITLE:
LEVEL 1 REFLECTED CEILING PLAN - SHELTER

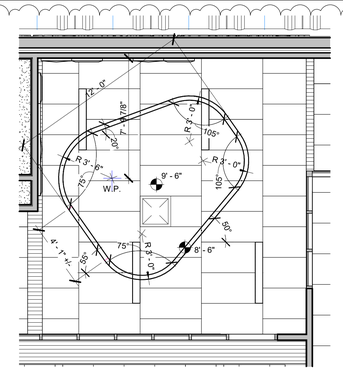
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A220

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4 RCP DETAIL - SECOND FLOOR - ELEVATOR LOBBY
1/4" = 1'-0"



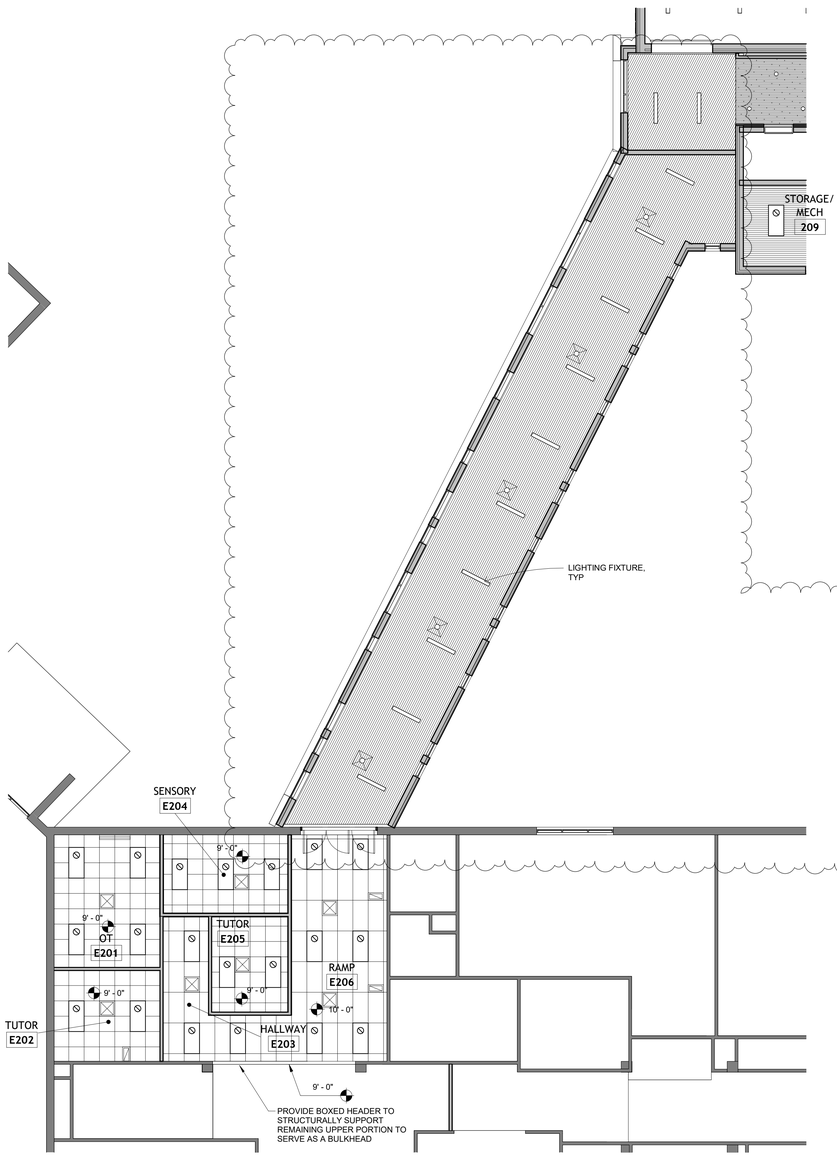
3 RCP DETAIL - SECOND FLOOR - PANDENT LIGHTING
1/4" = 1'-0"

CEILING PLAN GENERAL NOTES

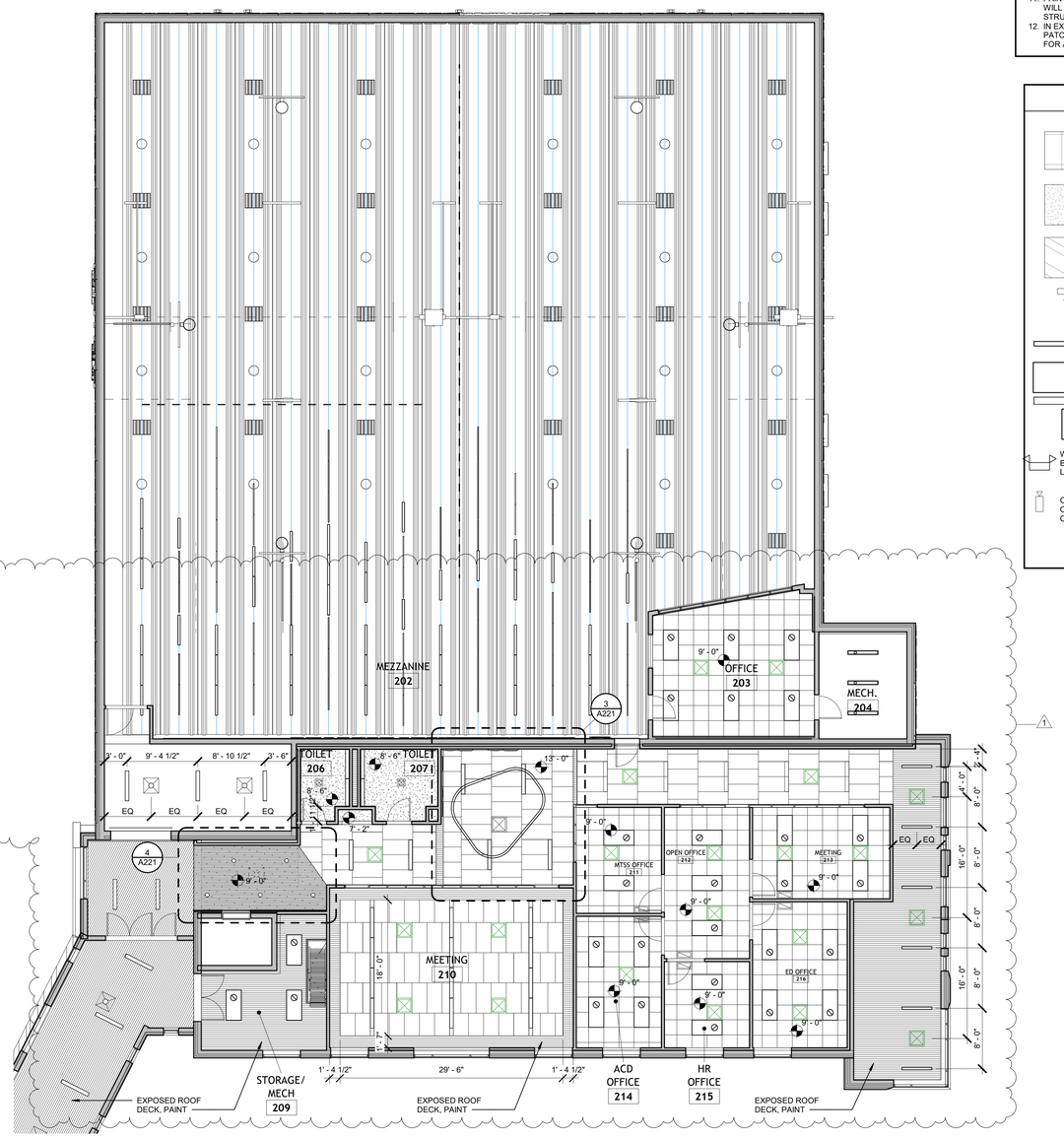
1. SEE FINISH SCHEDULE FOR CEILING HEIGHTS, UNLESS NOTED OTHERWISE ON CEILING PLANS. **WHERE CONFLICTS ARISE BETWEEN CEILING HEIGHT, STRUCTURAL, AND MECHANICAL, NOTIFY ARCHITECT IMMEDIATELY.**
2. MECHANICAL INFORMATION SHOWN IS INTENDED TO COMMUNICATE DESIGN INTENT. REFER TO **MECHANICAL PLANS FOR ADDITIONAL CEILING MOUNTED ITEMS, INCLUDING, BUT NOT LIMITED TO, EXHAUST FANS, GRILLES, SPRINKLERS, DUCTWORK, ETC.** NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES NOTED PRIOR TO COMMENCEMENT OF WORK.
3. ELECTRICAL INFORMATION SHOWN IS INTENDED TO COMMUNICATE DESIGN INTENT. REFER TO **ELECTRICAL PLANS FOR ADDITIONAL CEILING MOUNTED ITEMS, INCLUDING, BUT NOT LIMITED TO, OCCUPANCY SENSORS, WIRELESS ACCESS POINTS, FIRE/SMOKE DETECTION DEVICES, SECURITY DEVICES AND CAMERAS**. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES NOTED PRIOR TO COMMENCEMENT OF WORK.
4. COORDINATE CEILING MOUNTED EQUIPMENT SUPPORTS, DEVICE LOCATIONS, CLEARANCES, ETC. WITH EQUIPMENT INSTALLERS AND SUPPLIERS PRIOR TO INSTALLATION.
5. ACOUSTICAL PANEL CEILING GRIDS OR PANELS SHALL BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED OR DIMENSIONED.
6. CEILING MOUNTED ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, SPEAKERS, ETC.) SHALL BE CENTERED IN ACOUSTICAL CEILING PANELS OR GYPSUM BOARD SOFFITS UNLESS OTHERWISE NOTED OR DIMENSIONED. **IN GYPSUM BOARD CEILINGS, COORDINATE FINAL LOCATION WITH ARCHITECT AND MECHANICAL/ELECTRICAL IF NOT SPECIFICALLY DIMENSIONED**
7. SPACE LIGHT FIXTURES EVENLY IN ROOMS, BAYS, SPACES, ETC. AND CENTER BETWEEN EXPOSED STRUCTURAL ELEMENTS WHERE APPROPRIATE.
8. DIMENSIONS TO CEILING-INSTALLED ITEMS ARE TO CENTERLINE OF FIXTURE OR EQUIPMENT UNLESS NOTED OTHERWISE.
9. LOCATE CONTROL JOINTS IN GYPSUM BOARD CEILINGS, SOFFITS, BULKHEADS, AND FASCIAS AS INDICATED ON DRAWINGS OR AS SPECIFIED AND TO ALIGN WITH THOSE IN WALLS BELOW. VERIFY PROPOSED LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION.
10. **UNLESS SPECIFICALLY NOTED OR DIMENSIONED OTHERWISE, ALL GYPSUM BOARD FRAMED SOFFITS AND HEADERS ARE TO BE LOCATED 12" BELOW LOWEST ADJACENT CEILING, GYPSUM FINISHES ARE TO EXTEND TO 12" ABOVE CEILING, MIN.**
11. PAINT CONDUITS, DUCTWORK, SUPPORTS, HANGERS, ETC. THAT WILL REMAIN EXPOSED TO VIEW. MATCH COLOR INDICATED FOR STRUCTURE UNLESS NOTED OTHERWISE.
12. IN EXISTING BUILDING, WHERE WALL OR CEILING IS REMOVED, PATCH CEILING TO MATCH ADJACENT FINISH. SEE SHEET A200 FOR ADD'L NOTES.

CEILING PLAN SYMBOL LEGEND

- ACT - 2'x2', 2'x4'
- HD CEMENT PANEL CEILING/ SOFFIT
- GWB
- PERFORATED METAL PANEL CEILING
- METAL PANEL CEILING/ SOFFIT
- WOOD GRILLE CEILING
- LIGHTING FIXTURE - WALL MOUNTED
- FIRE SPRINKLER
- EXIT LIGHT
- LINEAR PENDANT
- OS — OCCUPANCY SENSOR
- LAY-IN LIGHT FIXTURE
- CEILING ACCESS PANEL
- WALL MOUNTED EMERGENCY LIGHT
- CEILING GRILLE SUPPLY
- CEILING MOUNTED CLOSED CIRCUIT CAMERA
- CEILING GRILLE RETURN
- CEILING BAFFLES



1 REFLECTED CEILING PLAN SKY WAY & EXISTING - SECOND FLOOR
1/8" = 1'-0"



2 REFLECTED CEILING PLAN - SECOND FLOOR
1/8" = 1'-0"

BLOOM HAY DOBBS

Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
Tel. 612.338.4990

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY
ST. PAUL, MN 55102
Phone: 651.209.6320

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY IMPROVEMENTS & EXPANSION
Project Number: 23008.003
Date: 05/07/2025

Rev. 1
Date: 2025 07 29
Desc. ADDENDUM 1

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME

SIGNATURE

LICENSE NO.

05/07/2025
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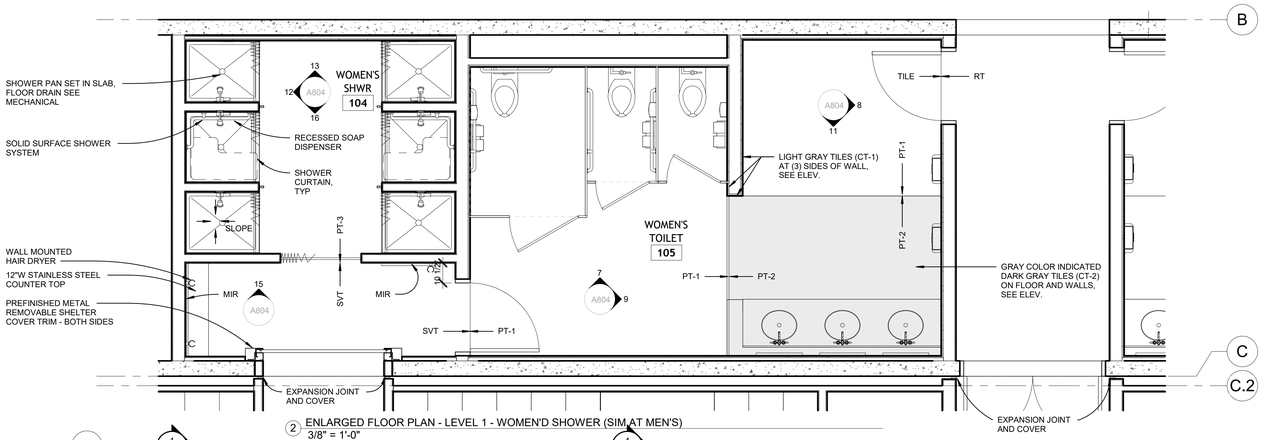
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SHEET TITLE:
LEVEL 2 REFLECTED CEILING PLAN - SHELTER

SHEET NUMBER:

A221

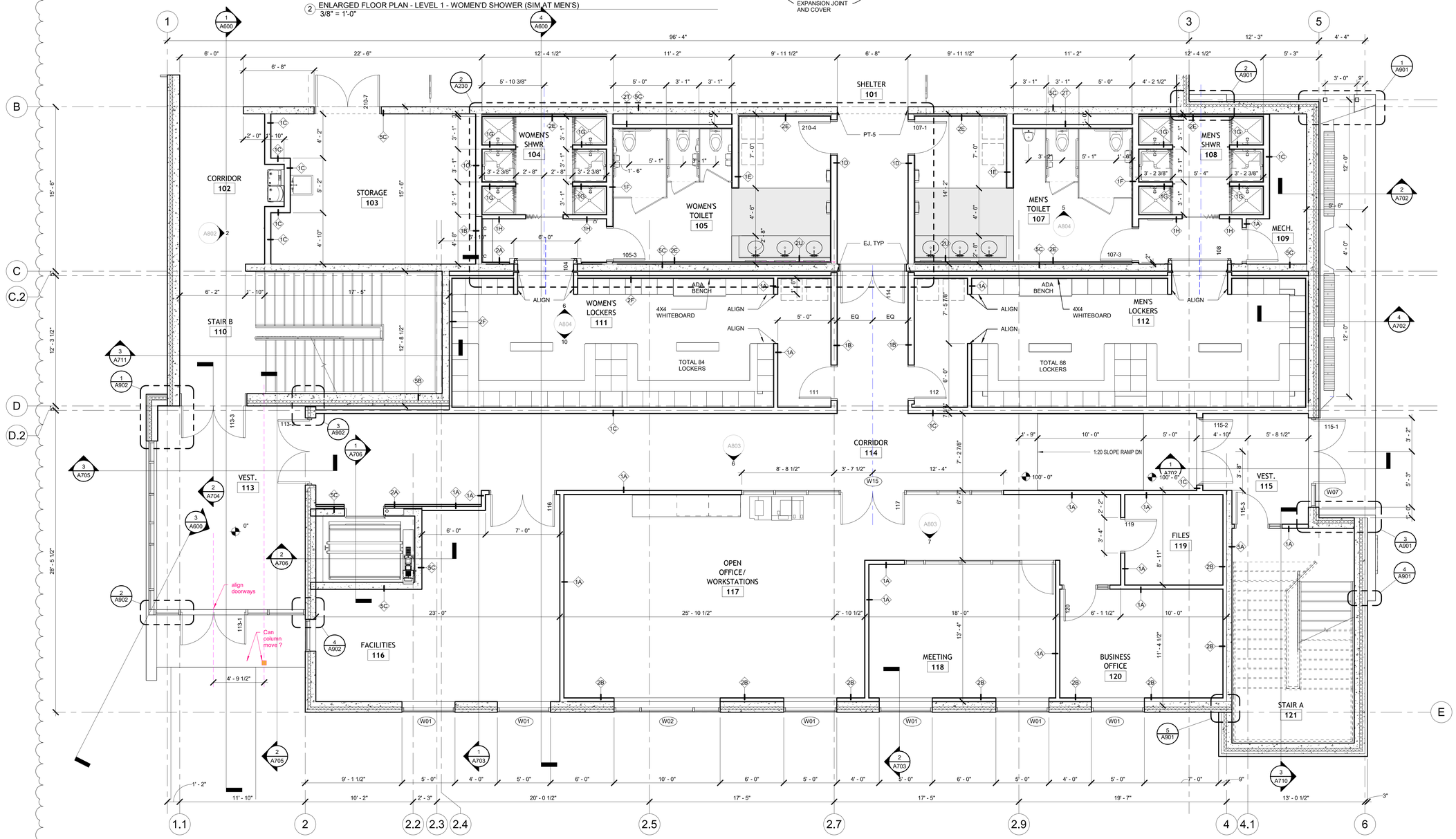
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2 ENLARGED FLOOR PLAN - LEVEL 1 - WOMEN'D SHOWER (SIM AT MEN'S)
3/8" = 1'-0"

FLOOR PLAN NOTES

1. FINISH FLOOR ELEVATION(FFE) 100'-0" EQUALS 787.50' ON THE CIVIL DRAWINGS.
2. PENETRATIONS THROUGH NON-RATED FLOORS, WALLS AND OTHER ASSEMBLIES SHALL BE SEALED AT BOTH SIDES WITH MATERIALS APPROPRIATE TO THE ASSEMBLY CONSTRUCTION TO REDUCE SOUND TRANSMISSION.
3. PENETRATIONS THROUGH FIRE-RATED FLOORS, WALLS, AND OTHER ASSEMBLIES SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UL OR OTHER APPROVED LISTINGS AND MATCH THE RATING OF THE CONSTRUCTION BEING PENETRATED.
4. PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS (INCLUDING, BUT NOT LIMITED TO, MARKER BOARDS, SIGNAGE, CASEWORK, MILLWORK, AND TOILET ACCESSORIES).
5. PROVIDE BLOCKING AT RAILINGS AND GUARDRAILS CAPABLE OF SUPPORTING THE POINT AND UNIFORM LOADS REQUIRED BY CODE.
6. VERIFY CLEARANCES REQUIRED FOR INSTALLATION OF RECESSED OR SEMI-RECESSED EQUIPMENT AND FIXTURES (E.G. CABINETS, DISPENSERS, PANELS, ETC.). NOTIFY ARCHITECT IMMEDIATELY IF SPECIFIED WALL TYPES DO NOT PROVIDE ADEQUATE SPACE FOR PROPER INSTALLATION.
7. FLOOR PLAN DIMENSIONS ARE LOCATED FROM THE FINISHED FACE OF PARTITIONS, UNLESS NOTED OTHERWISE.
8. MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
9. DO NOT SCALE DRAWINGS; DIMENSIONS SHALL GOVERN.
10. REFER TO SHEET A804 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND ACCESSORIES.
11. REFER TO SHEET A300 FOR INTERIOR PARTITION TYPE INFORMATION.
12. EXTERIOR WALL CONSTRUCTION SHOWN ON WALL SECTIONS.
13. LOCATE DOOR FRAMES 4" CLEAR FROM ADJACENT PERPENDICULAR WALLS UNLESS NOTED OTHERWISE.
14. SEE SHEET A801~A806 FOR INTERIOR ELEVATION.
15. SEE SHEET A710, A711 & A712 FOR STAIR INFORMATION.



1 ENLARGED FLOOR PLAN - LEVEL 1 - SHELTER
1/4" = 1'-0"

BLOOM HAY DOBBS

Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
Tel. 612.338.4590

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SHEET TITLE:
ENLARGED FLOOR PLAN - LEVEL 1

SHEET NUMBER:

A230

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ROOM FINISH LEGEND

ACP	ACOUSTICAL PANEL
ACT	ACOUSTICAL CEILING TILE
CG	CORNER GUARD
CONC.	CONCRETE
CPT	CARPET
CT	CERAMIC WALL TILE
CTB	CERAMIC TILE BASE
EP PT	EPOXY PAINT
EXP	EXPOSED STRUCTURE
GL	GLASS
GT	GROUT
GYP BD	GYPSUM BOARD
LIN	LINOLEUM FLOORING
LOK	LOCKER
MIR	MIRROR
MP	METAL PANEL
MTA	METAL TRANSITION ACCESSORIES
NA	NOT APPLICABLE
PCT	PORCELAIN TILE
PLAM	PLASTIC LAMINATE
PT	PAINT
PTD	PAPER TOWEL DISPENSER
QTZ	QUARTZ
RB	RESILIENT BASE
REC	RECREATIONAL FLOORING
RF	RUBBER FLOORING
RMA	RESILIENT MOLDING ACCESSORY
RST	RESILIENT STAIR TREADS
RT	RESILENT TILE
SC	SHOWER CURTAIN
SD	SOAP DISPENSER
SLD	SEALED CONCRETE
SND	SENITORY NAPKIN DISPENSER
SS	SOLID SURFACE MATERIAL
SST	STAINLESS STEEL
SVT	SOLID VINYL TILE
TB	TACKBOARD
TPD	TOILET PAPER DISPENSER
TPTD	TRASH-PAPER TOWEL DISPENSER
TPTN	TOILET PARTITION
TR	TRASH RECEPTACLE
TSC	TOILET SEAT COVER
VB	VINYL BASE
WB	WHITEBOARD
WD	WOOD
WG	WOOD GRILLE CEILING/ WALL
WS	WINDOW SHADES

ROOM FINISH SCHEDULE

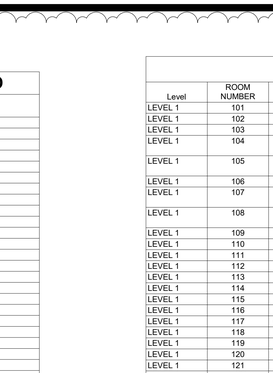
Level	ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL FINISH	NORTH WALL SUBSTRATE	EAST WALL FINISH	EAST WALL SUBSTRATE	SOUTH WALL FINISH	SOUTH WALL SUBSTRATE	WEST WALL FINISH	WEST WALL SUBSTRATE	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT	REMARKS
LEVEL 1	101	SHELTER	REC-1	VINYL	PT-1	CONC.	PT-1	CONC.	PT-1	CONC.	PT-1	CONC.	EXP	PT-2	--	6,7,10
LEVEL 1	102	CORRIDOR	RT-1	VINYL	PT-1	CONC.	PT-1	GYP BD	PT-1	CONC.	PT-1	CONC.	EXP	PT-2	--	
LEVEL 1	103	STORAGE	SLD CONC.	VINYL	PT-1	CONC.	PT-1	GYP BD	PT-1	CONC.	PT-1	GYP BD	EXP	NA	--	
LEVEL 1	104	WOMEN'S SHWR	PCT-3	CT-1/ CT-2	CT-3	GYP BD / MOIST. RES.	CT-3	GYP BD / MOIST. RES.	CT-3	GYP BD / MOIST. RES.	CT-3	GYP BD / MOIST. RES.	GYP BD	PT-1	9'-0"	1,2,3,8
LEVEL 1	105	WOMEN'S TOILET	PCT-1, PCT-2	CT-1/ CT-2	CT-1	GYP BD / MOIST. RES.	CT-1/ CT-2	GYP BD / MOIST. RES.	CT-1/ CT-2	GYP BD / MOIST. RES.	CT-1	GYP BD / MOIST. RES.	GYP BD	PT-1	9'-0"/8'-8"	2
LEVEL 1	106	CORRIDOR	RT-1	VINYL	NA	NA	PT-1	GYP BD	PT-1	CONC.	PT-1	GYP BD	EXP	PT-2	--	
LEVEL 1	107	MEN'S TOILET	PCT-1, PCT-2	CT-1/ CT-2	CT-1	GYP BD / MOIST. RES.	CT-1	GYP BD / MOIST. RES.	CT-1/ CT-2	CONC.	CT-1/ CT-2	GYP BD / MOIST. RES.	GYP BD	PT-1/ PT-2	9'-0"/ 8'-8"	2
LEVEL 1	108	MEN'S SHWR	PCT-3	CT-3	CT-3	GYP BD / MOIST. RES.	CT-3	GYP BD / MOIST. RES.	CT-3	GYP BD / MOIST. RES.	CT-3	GYP BD / MOIST. RES.	GYP BD	PT-1	9'-0"	1,2,3,8
LEVEL 1	109	MECH.	SLD CONC.	NA	NA	CONC.	NA	CONC.	NA	CONC.	NA	GYP BD	EXP	NA	--	
LEVEL 1	110	STAIR B	RST	RB	PT-1	CONC.	PT-1	CONC.	PT-1	CONC.	PT-1	CONC.	EXP	NA	--	
LEVEL 1	111	WOMEN'S LOCKERS	SVT	VINYL	EPOXY PT-1	GYP BD	EPOXY PT-1	GYP BD	EPOXY PT-1	GYP BD	EPOXY PT-1	GYP BD	GYP BD	PT-1	10'-0"	
LEVEL 1	112	MEN'S LOCKERS	SVT	VINYL	EPOXY PT-1	GYP BD	EPOXY PT-1	GYP BD	EPOXY PT-1	GYP BD	EPOXY PT-1	GYP BD	GYP BD	PT-1	10'-0"	
LEVEL 1	113	VEST.	CPT-2	VINYL	PT-1	CONC.	NA	CONC.	NA	GL-1	PT-1	GYP BD	MP	MP	10'-0"	
LEVEL 1	114	CORRIDOR	RT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	CONC.	ACT-2	ACT-2	10'-0"/9'-0"	4,5
LEVEL 1	115	VEST.	CPT-2	VINYL	PT-1	GYP BD	PT-1	CONC.	PT-1	GYP BD	PT-1	GYP BD	WOOD	NA	10'-0"	
LEVEL 1	116	FACILITIES	SLD CONC.	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	CONC.	PT-1	CONC.	EXP	NA	--	
LEVEL 1	117	OPEN OFFICE/ WORKSTATIONS	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 1	118	MEETING	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 1	119	FILES	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 1	120	BUSINESS OFFICE	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 1	121	STAIR A	RST	RB	PT-1	CONC.	PT-1	CONC.	PT-1	CONC.	PT-1	CONC.	EXP	NA	--	
LEVEL 1	E101	HALLWAY														
LEVEL 1	E102	OFFICE														
LEVEL 2	202	MEZZANINE	RF-1	RB	NA	NA	PT-1	GYP BD	PT-1	CONC.	PT-1	CONC.	EXP	NA		
LEVEL 2	203	OFFICE	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	204	MECH.	SLD CONC.	VINYL	PT-1	CONC.	PT-1	CONC.	PT-1	CONC.	PT-1	GYP BD	EXP	NA	--	
LEVEL 2	205	STAIR B	RST	RB	PT-1	CONC.	PT-1	CONC.	PT-1	CONC.	PT-1	EXP	PT-2	--		
LEVEL 2	206	TOILET	PCT-2	CT-1	CT-1	GYP BD / MOIST. RES.	TILE	GYP BD / MOIST. RES.	TILE	GYP BD / MOIST. RES.	TILE	GYP BD / MOIST. RES.	GYP BD	PT-1	9'-0"	
LEVEL 2	207	TOILET	PCT-2	CT-1	CT-1	GYP BD / MOIST. RES.	TILE	GYP BD / MOIST. RES.	TILE	GYP BD / MOIST. RES.	TILE	GYP BD / MOIST. RES.	GYP BD	PT-1	9'-0"	
LEVEL 2	208	CORRIDOR	RT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-2	ACT-2	10'-0"/ 9'-0"	4,6
LEVEL 2	209	STORAGE/ MECH	SLD CONC.	VINYL	PT-1	CONC.	PT-1	GYP BD	PT-1	CONC.	PT-1	CONC.	EXP	NA	--	
LEVEL 2	210	MEETING	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-2	ACT-2	10'-0"	
LEVEL 2	211	MTSS OFFICE	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	212	OPEN OFFICE	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	213	MEETING	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	214	ACD OFFICE	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	215	HR OFFICE	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	216	ED OFFICE	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	217	STAIR A	RST	RB	PT-1	GYP BD	PT-1	CONC.	PT-1	CONC.	PT-1	CONC.	EXP	PT-2	--	
LEVEL 2	218	SKYWAY LOBBY	RT-1	VINYL	PT-1	CONC.	NA	CONC.	PT-1	GYP BD	PT-1	GYP BD	EXP	PT-2	--	
LEVEL 2	219	SKYWAY	RT-1	VINYL	PT-1	NA	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	EXP	PT-1	--	
LEVEL 2	E101M	MEZZ	RF-2	VINYL	PT-1		PT-1		PT-1		PT-1					
LEVEL 2	E201	OT	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	E202	TUTOR	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	E203	HALLWAY	RT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-3	ACT-3	10'-0"	
LEVEL 2	E204	SENSORY	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	E205	TUTOR	CPT-1	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	ACT-1	ACT-1	9'-0"	
LEVEL 2	E206	RAMP	RT	VINYL	PT-1	GYP BD	PT-1	GYP BD	PT-1	NA	PT-1	GYP BD	ACT-3	ACT-3	10'-0"	
LEVEL 2	E207	HALLWAY	RT-1	VINYL	PT-1	EXIST	PT-1	GYP BD	NA	EXIST	NA	EXIST	NA	NA		PAINT ON NEW WALL
LEVEL 3	E325	MEETING / CLASS	CPT-1	VINYL	PT-1	EXIST	PT-1	EXIST	PT-1	GYP BD	PT-1	GYP BD	ACT-3	ACT-3	9'-0"	
LEVEL 3	E326	LOCKERS	SVT	VINYL	PT-1	EXIST	PT-1	GYP BD	PT-1	EXIST	PT-1	EXIST	ACT-3	ACT-3	9'-0"	

GENERAL FINISH SCHEDULE NOTES

1. REVIEW INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING ACCENT COLORS AND LOCATIONS OF PAINT COLOR TRANSITIONS. SEE FINISH PLAN FOR EXTENT OF ACCENT COLORS.
2. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL CEILING HEIGHT CHANGES.
3. SEE SPECIFICATIONS FOR SPECIFIC COLORS AND BLENDS FOR FINISH MATERIALS NOTED IN ROOM FINISH SCHEDULE
4. SEE DOOR SCHEDULE FOR HM DOOR AND FRAME PAINT COLORS
5. ALL STRUCTURAL STEEL EXPOSED TO VIEW FROM BELOW TO BE PAINTED, SEE ELEVATIONS / SECTIONS FOR ADD'L INFO.
6. WINDOW STOOLS (SILLS) SHALL BE SOLID SURFACE MATERIAL.
7. FLOOR TRANSITIONS BETWEEN ROOMS ARE AT THE CENTERLINE OF DOOR, UNLESS NOTED OTHERWISE.
8. PAINT UNDERSIDE OF STAIRS, STRINGERS, BALUSTERS AND RAILS PNT-x.
9. PAINT HOLLOW METAL DOOR FRAMES AS NOTED IN DOOR SCHEDULE.
10. PROVIDE 1'-4"H BURNISHED CMU LOCKER BASE AT ROOM # 111 & 112

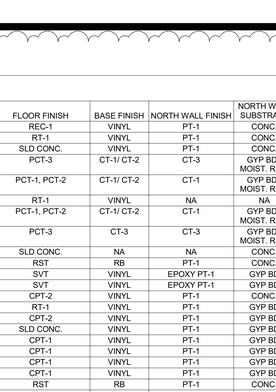
INTERIOR REMARKS FINISHES

Key Name	ROOM FINISH REMARKS
1	SOLID SURFACE AT TOP OF WALL, SEE INTERIOR ELEVATION
2	FOR CERAMIC TILE TYPES,SEE INTERIOR ELEVATION
3	CERAMIC TILE ABOVE SHOWER BOOTH, SEE INTERIOR ELEVATION
4	FOR WOOD GRILLE AT WALL,SEE INTERIOR ELEVATION
5	SEE ELEVATOR SPECIFICATIONS FOR STAINLESS STEEL FINISHES.
6	FOR ACCOUSTICAL WALL PANEL, SEE INTERIOR ELEVATION
7	FOR WALL PAINT TYPE,SEE INTERIOR ELEVATION
8	SOLID SHOWER SYSTEM
9	
10	SEE SPECIFICATION SECTION 012300 - ALTERNATES APPLICABLE TO THIS AREA



1 PARTITION TYPE 1 - TYP MTL STUD
1 1/2" = 1'-0"

PARTITION TYPE 1							
TYPE	TOTAL WIDTH	FRAMING	SIDE 1 SUBSTRATE	SIDE 2 SUBSTRATE	SOUND BATT	FIRE RATING	UL DESIGN NO.
1A	4 7/8"	3 5/8"	5/8" TYPE-X GYP BD	5/8" TYPE-X GYP BD	YES		
1B	7 1/4"	6"	5/8" TYPE-X GYP BD	5/8" TYPE-X GYP BD	YES		
1C	7 1/4"	6"	5/8" TYPE-X GYP BD	5/8"CEMENT BACKER BOARD	YES		
1D	7 3/4"	6"	5/8" TYPE-X GYP BD	5/8" MOIST. RES. GYP BD W/CT	YES		
1E	8 1/4"	6"	5/8" MOIST. RES. GYP BD W/CT	5/8" MOIST. RES. GYP BD W/CT	YES		
1F	7 3/4"	6"	5/8" MOIST. RES. GYP BD W/ CT	1/2" CEMENT BACKER BOARD W/ S.S.	YES		
1F1	7 1/4"	6"	5/8" TYPE-X GYP BD	5/8" TYPE-X GYP BD	YES		UL DES. U 465
1G	4 7/8"	3 5/8"	5/8" CEMENT BACKER BD W/ S.S.	5/8" CEMENT BACKER BD W/ S.S.	YES		
1H	4 7/8"	3 5/8"	5/8" CEMENT BACKER BD W/ S.S.	5/8" TYPE-X GYP BD	YES		
1T	5 3/8"	3 5/8"	5/8" MOIST. RES. GYP BD W/ CT	5/8" TYPE-X GYP BD	YES		



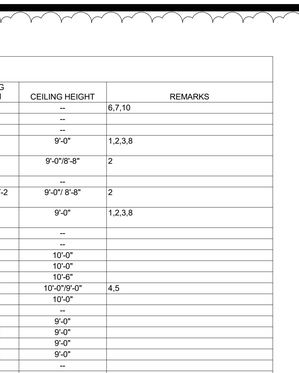
2 PARTITION TYPE 2 - MTL STUD FURRING/SHAFT
1 1/2" = 1'-0"

PARTITION TYPE 2							
TYPE	TOTAL WIDTH	FRAMING	SIDE 1 SUBSTRATE	SIDE 2 SUBSTRATE	SOUND BATT	FIRE RATING	UL DESIGN NO.
2A	2 1/4"	1 5/8"	5/8" TYPE-X GYP BD	NONE			
2B	4 1/4"	3 5/8"	5/8" TYPE-X GYP BD	NONE	YES		
2D	3 1/8"	2 1/2"	5/8" TYPE-X GYP BD	NONE	YES		
2E	2 5/8"	1 5/8"	1/2" CEMENT BACKER BOARD W/CT	NONE			
2F	3 1/8"	2 1/2"	5/8" TYPE-X GYP BD	NONE	YES		
2T	4 3/4"	3 5/8"	5/8" MOIST. RES. GYP BD W/ CT	NONE	YES		
2U	7 1/8"	3 5/8"	5/8" MOIST. RES. GYP BD W/ S.S.	NONE	YES		



5 PARTITION TYPE 5 - INTERIOR PRECAST
1 1/2" = 1'-0"

PARTITION TYPE 5							
TYPE	TOTAL WIDTH	FRAMING	SIDE 1 SUBSTRATE	SIDE 2 SUBSTRATE	SOUND BATT	FIRE RATING	UL DESIGN NO.
5A	6"						
5B	1' - 2"					2HR	
5C	8"					2HR	



8 PARTITION TYPE 9 - MTL STUD W/ STC 59
1 1/2" = 1'-0"

PARTITION TYPE 9							
TYPE	TOTAL WIDTH	FRAMING	SIDE 1 SUBSTRATE	SIDE 2 SUBSTRATE	SOUND BATT	FIRE RATING	UL DESIGN NO.
9A	5 3/4"	3 5/8"	5/8" TYPE-X GYP BD	5/8" TYPE-X GYP BD	YES	NONE	N/A

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Tel. 612.338.4990

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ST. PAUL, MN 55102
Phone: 651.209.6320

CONSULTANT

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Date: 05/07/2025

Rev. 1
Date: 2025 07 29
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SHEET TITLE:
ROOM FINISH SCHEDULE & PARTITION TYPES

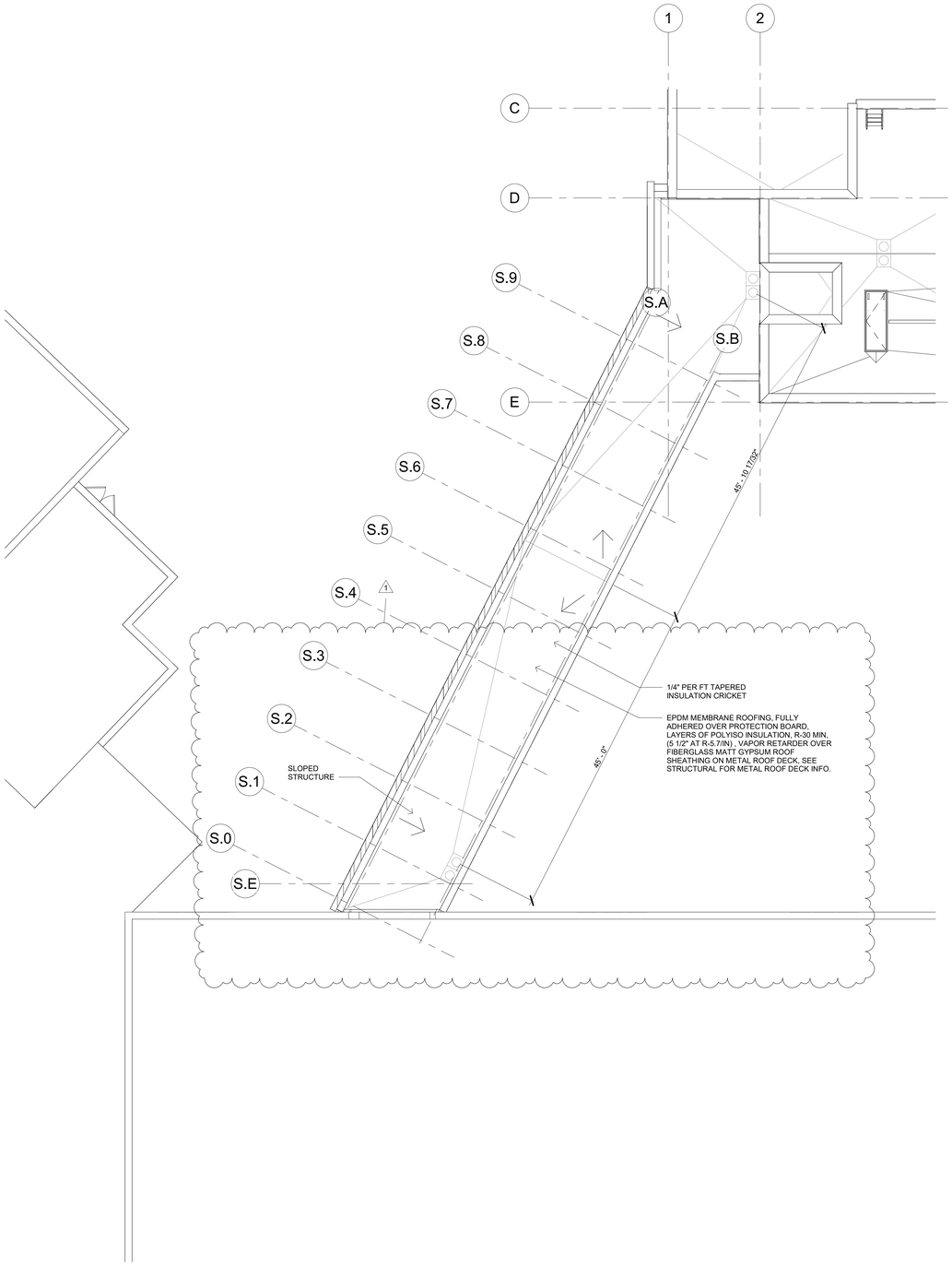
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A300

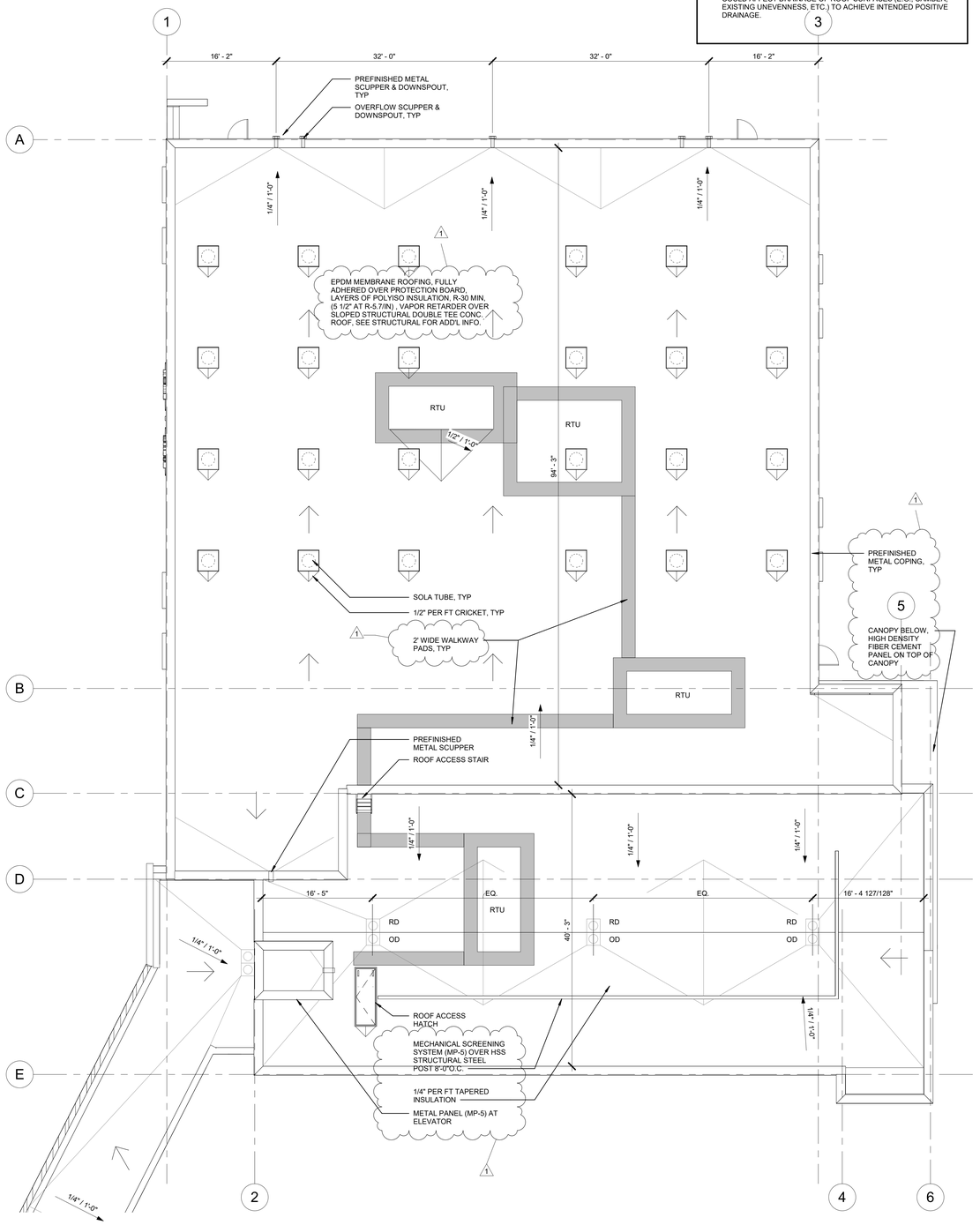
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ROOF PLAN NOTES

1. SEE FLOOR PLAN FOR BUILDING DIMENSIONS. DO NOT SCALE THE ROOF PLAN.
2. EQUIPMENT PADS AND CURBS SHALL BE SIZED ACCORDING TO EQUIPMENT REQUIREMENTS UNLESS NOTED OTHERWISE.
3. INSTALL ROOFING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS TO ACHIEVE SPECIFIED WARRANTY. FOLLOW MANUFACTURER'S STANDARD INSTALLATION DETAILS AND REQUIREMENTS AT ALL CONDITIONS NOT SPECIFICALLY DETAILED BY ARCHITECT.
4. VENTS, BOILER STACKS, EXHAUST FANS, TIE-OFFS, ANTENNA SUPPORTS AND OTHER ITEMS THAT EXTEND ABOVE THE PARAPET HEIGHT AND ARE VISIBLE FROM GROUND LEVEL SHALL BE PAINTED UNLESS FACTORY FINISHED OR NOTED OTHERWISE.
5. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOFTOP EQUIPMENT AND FOR PENETRATIONS NOT INDICATED ON THIS DRAWING.
6. CONTRACTOR SHALL ACCOUNT FOR FIELD CONDITIONS THAT COULD AFFECT DRAINAGE OF ROOF SURFACES (E.G., CAMBER, EXISTING UNEVENNESS, ETC.) TO ACHIEVE INTENDED POSITIVE DRAINAGE.



1 ROOF PLAN SKYWAY
1/8" = 1'-0"



2 ROOF PLAN SHELTER
1/8" = 1'-0"

N
PROJECT
TRUE

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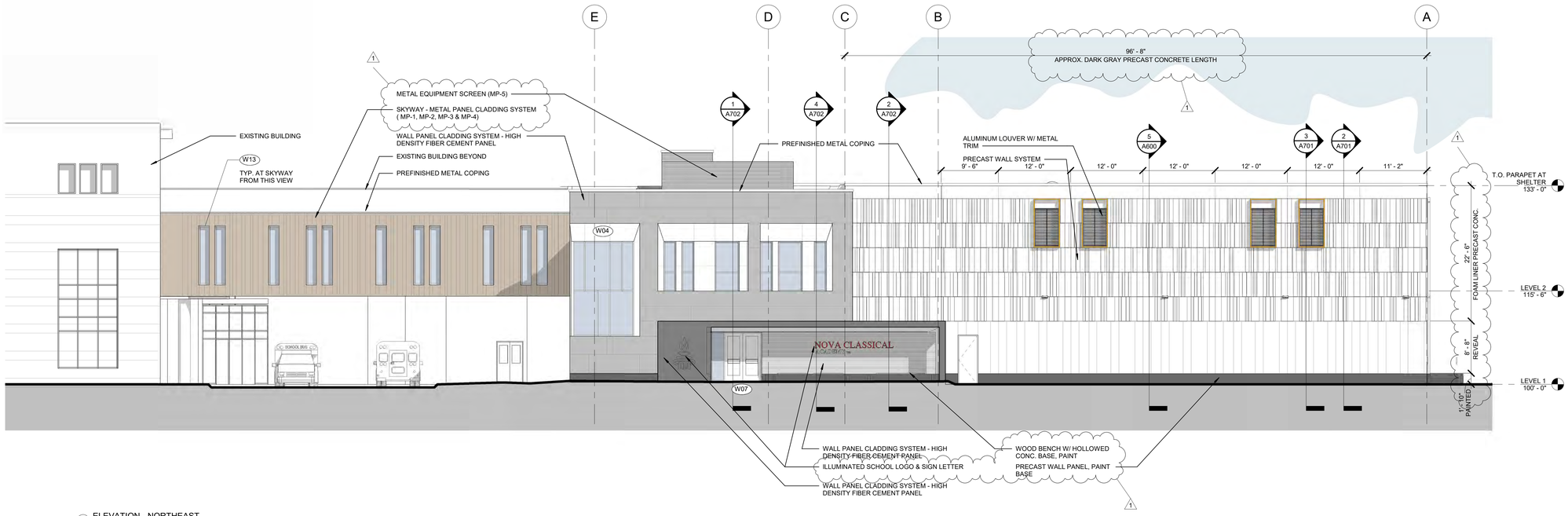
SHEET TITLE:
ROOF PLAN - SHELTER & SKYWAY

SHEET NUMBER:

A400



1 SKYWAY VIEW FROM MERCER ST.



2 ELEVATION - NORTHEAST
1/8" = 1'-0"

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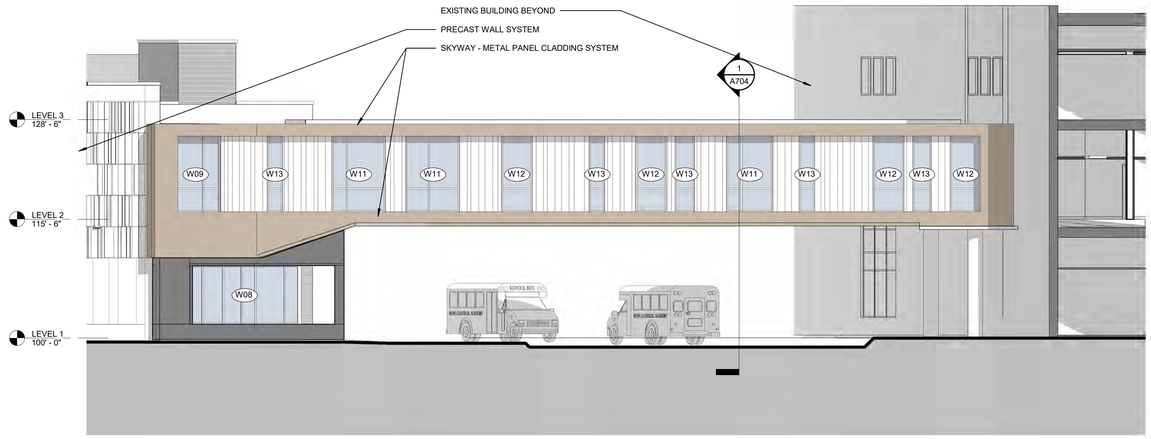
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BUILDING ELEVATIONS- NORTHEAST

SHEET NUMBER:

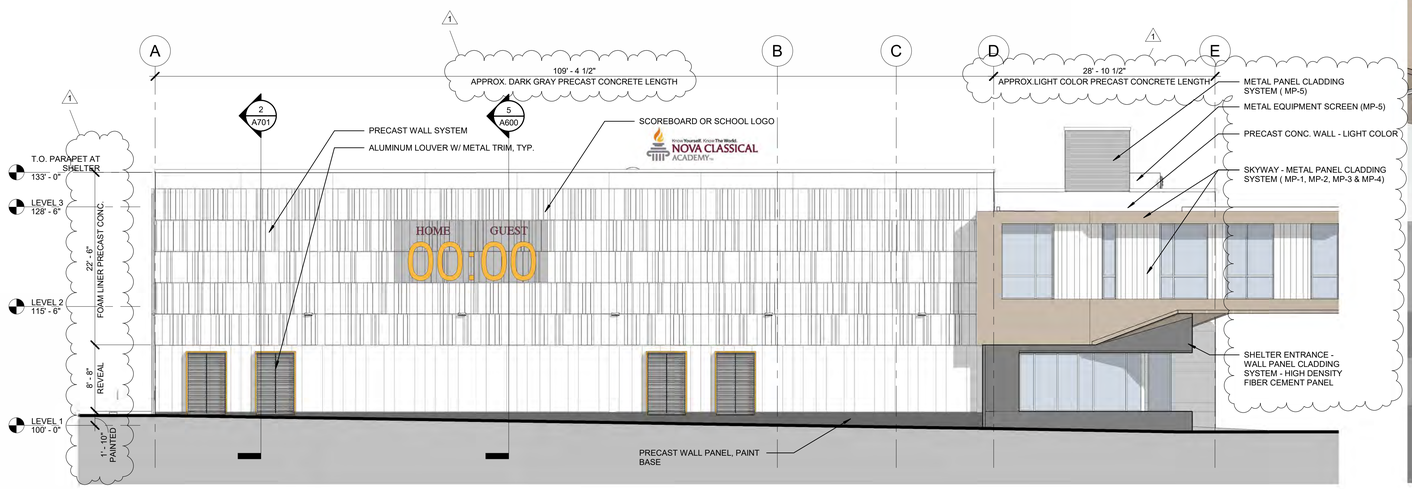
A501



1 SKYWAY - SHELTER ENTRANCE VIEW



2 SKYWAY ELEVATION
1/8" = 1'-0"



3 ELEVATION - SOUTHWEST
1/8" = 1'-0"



4 SKYWAY - SHELTER VIEW FROM MAIN BUILDING

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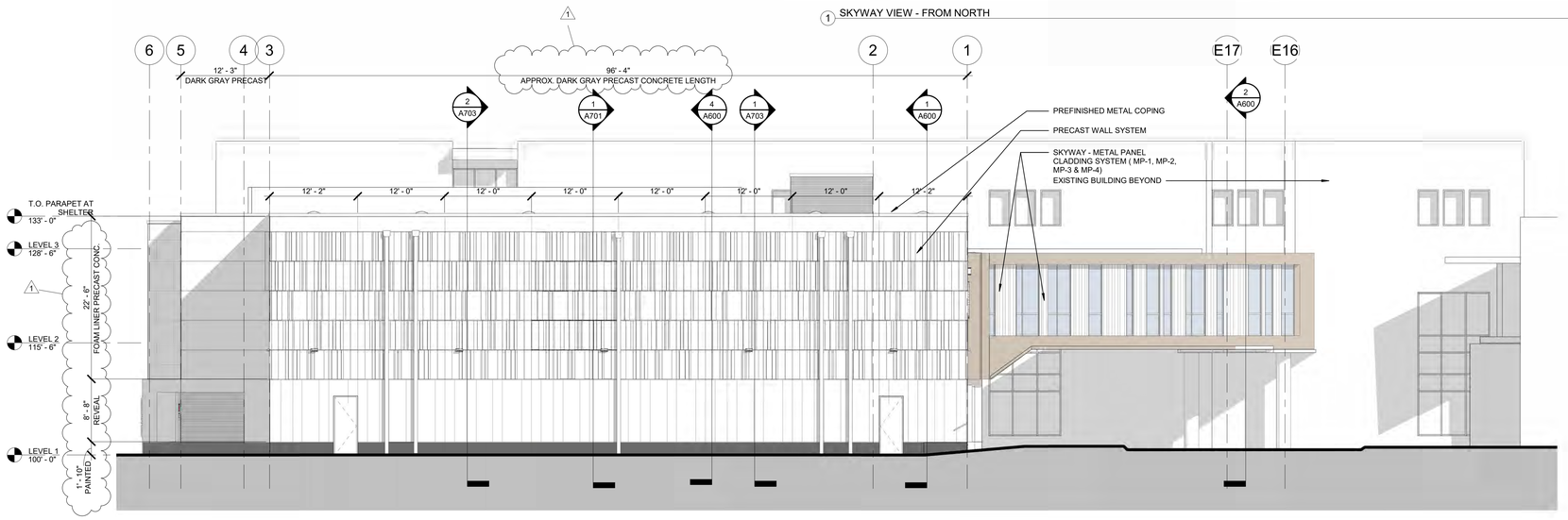
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BUILDING ELEVATIONS - SOUTHWEST

SHEET NUMBER:

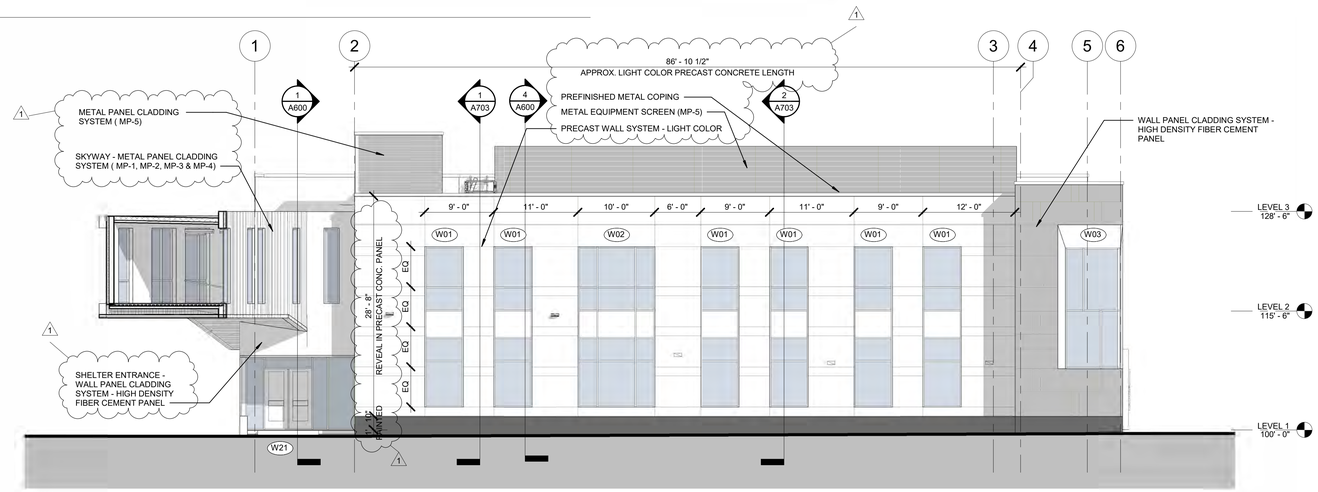
A502



1 SKYWAY VIEW - FROM NORTH



2 ELEVATION - NORTHWEST
1/8" = 1'-0"



3 ELEVATION - SOUTHEAST
1/8" = 1'-0"

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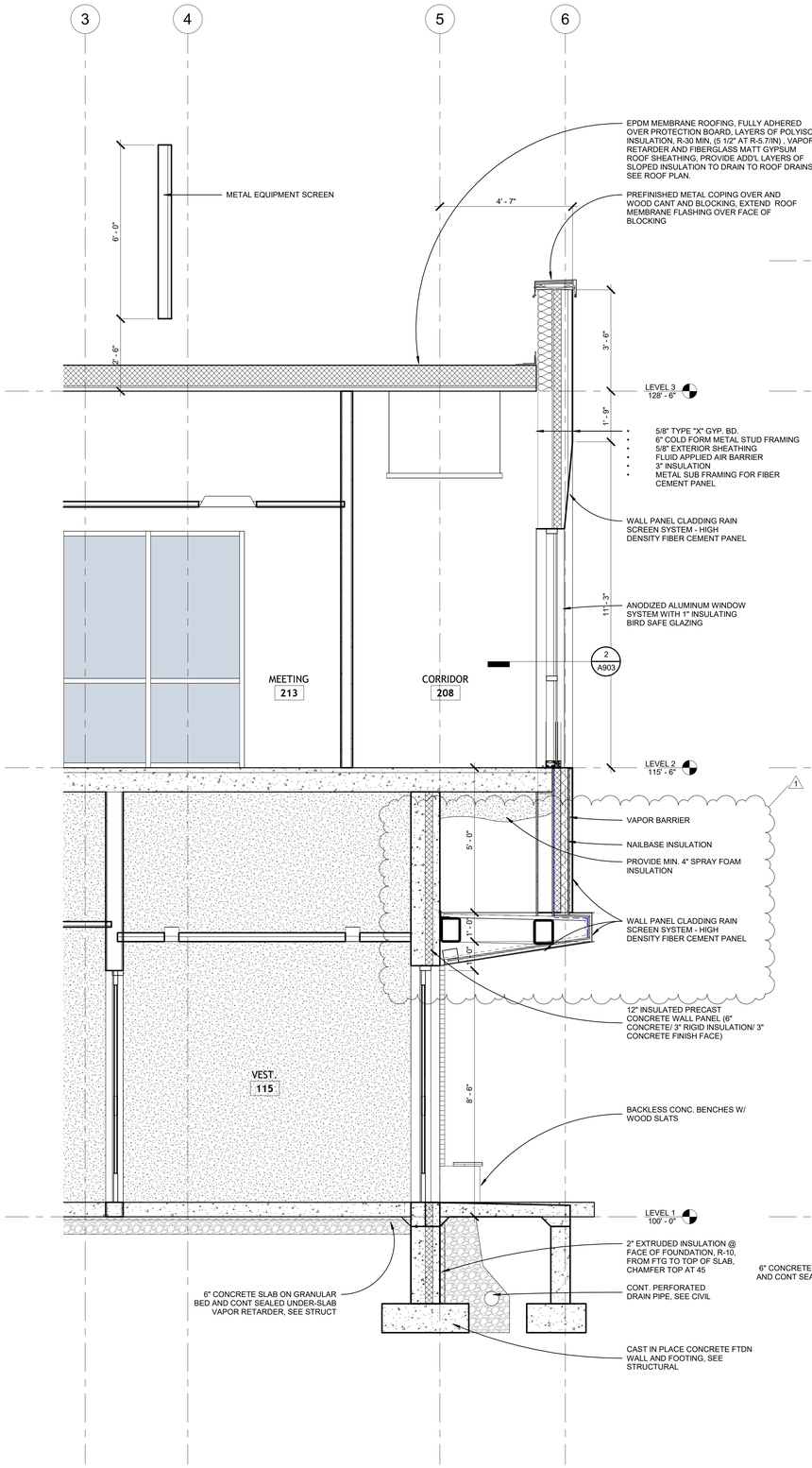
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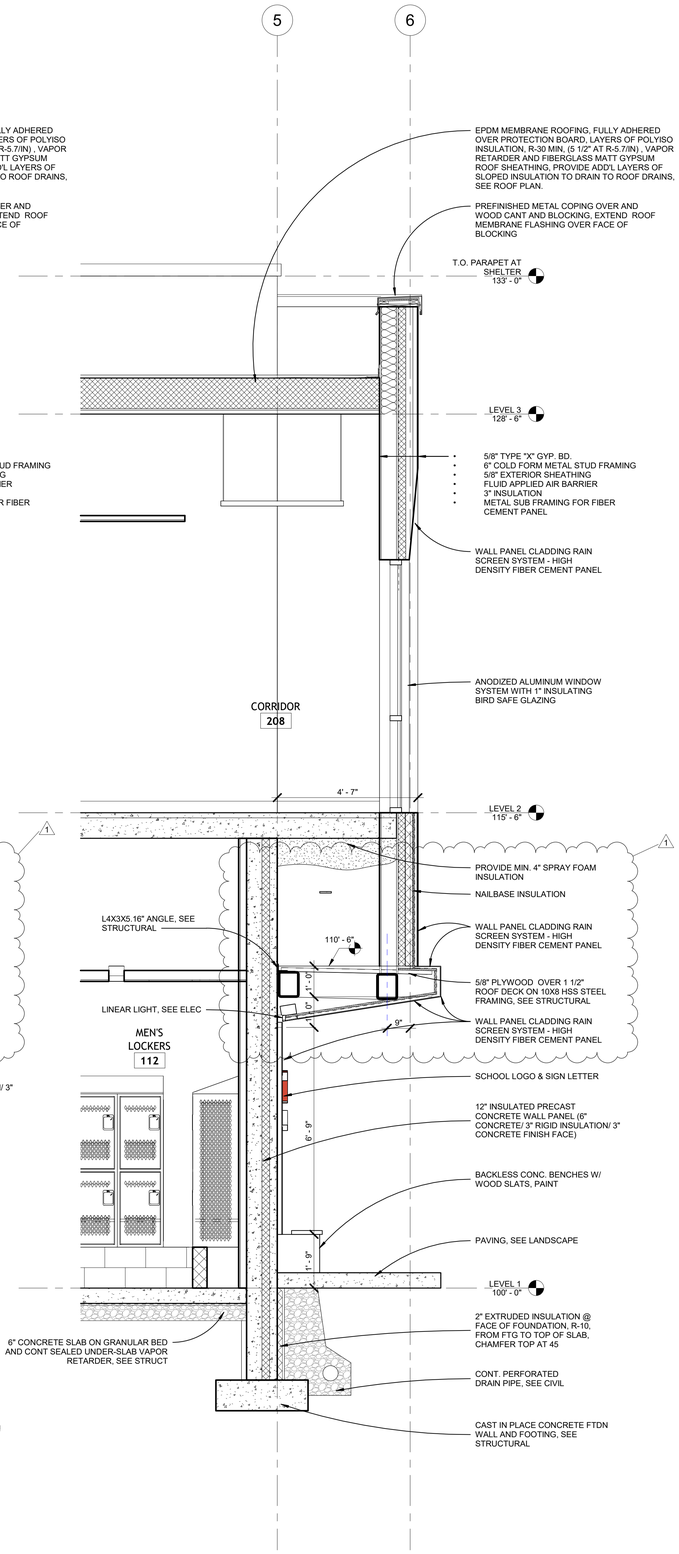
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BUILDING ELEVATIONS - NORTH WEST & SOUTHEAST

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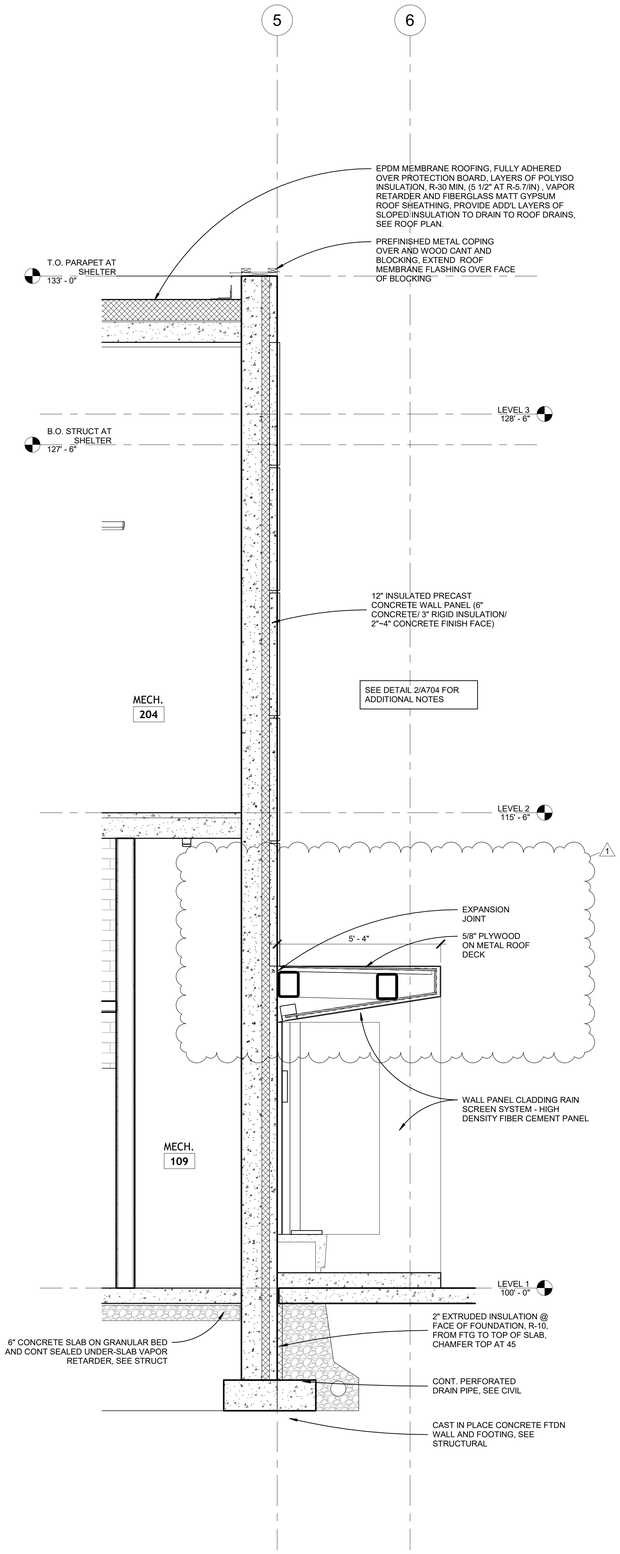
A503



1 WALL SECTION - BUS STOP VESTIBULE
1/2" = 1'-0"



4 WALL SECTION - BUS STOP CANOPY 1
1/2" = 1'-0"



2 WALL SECTION - BUS STOP CANOPY
1/2" = 1'-0"

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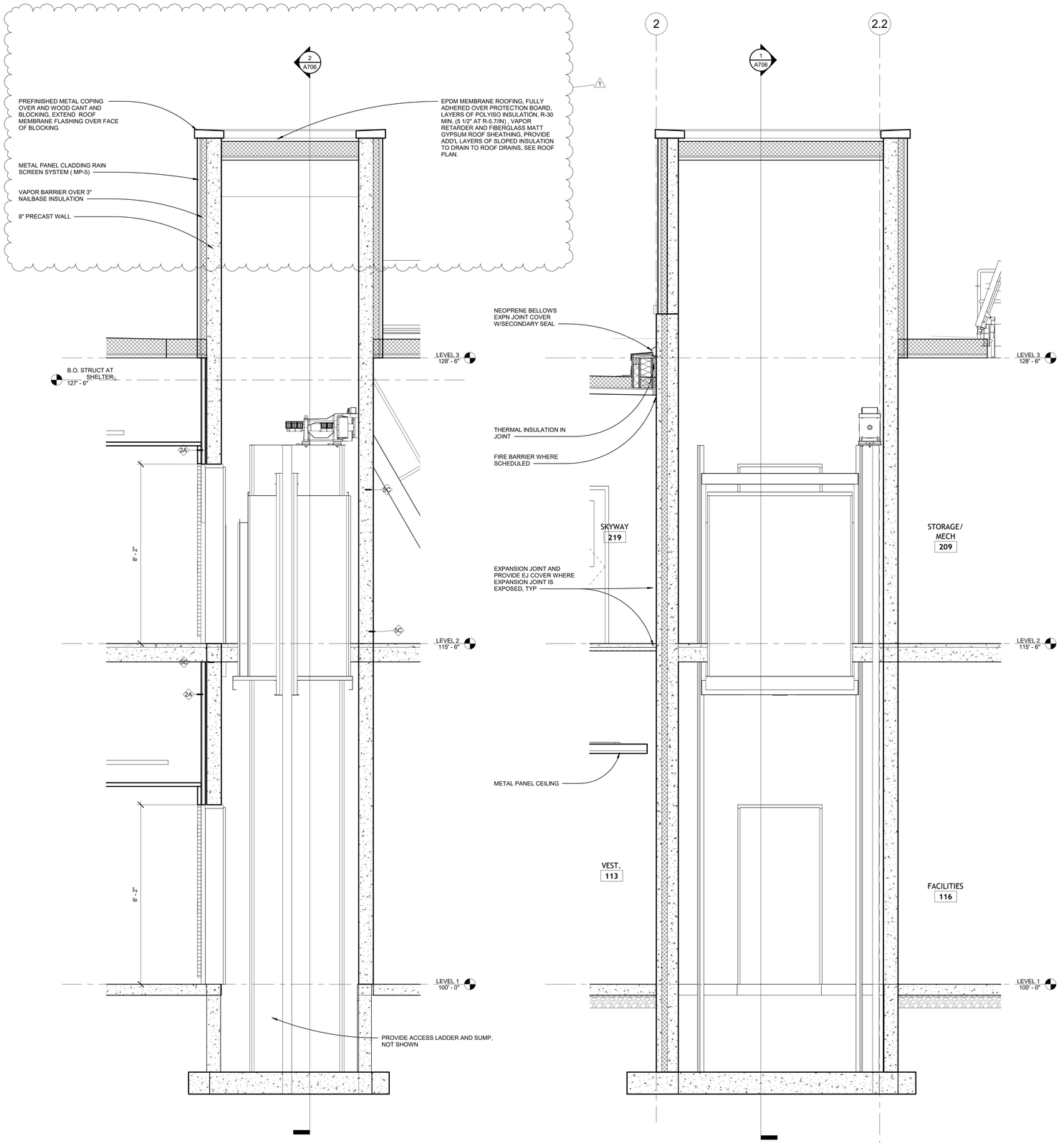
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SHEET TITLE:
WALL SECTIONS - NORTHEAST WALL

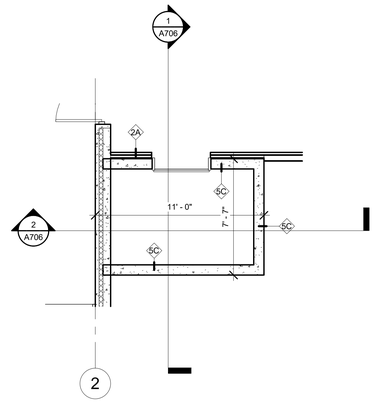
SHEET NUMBER:

A702



1 ELEVATOR SECTION
1/2" = 1'-0"

2 ELEVATOR SECTION 2
1/2" = 1'-0"



3 ENLARGED ELEV. PLAN - 1ST FLOOR
1/4" = 1'-0"

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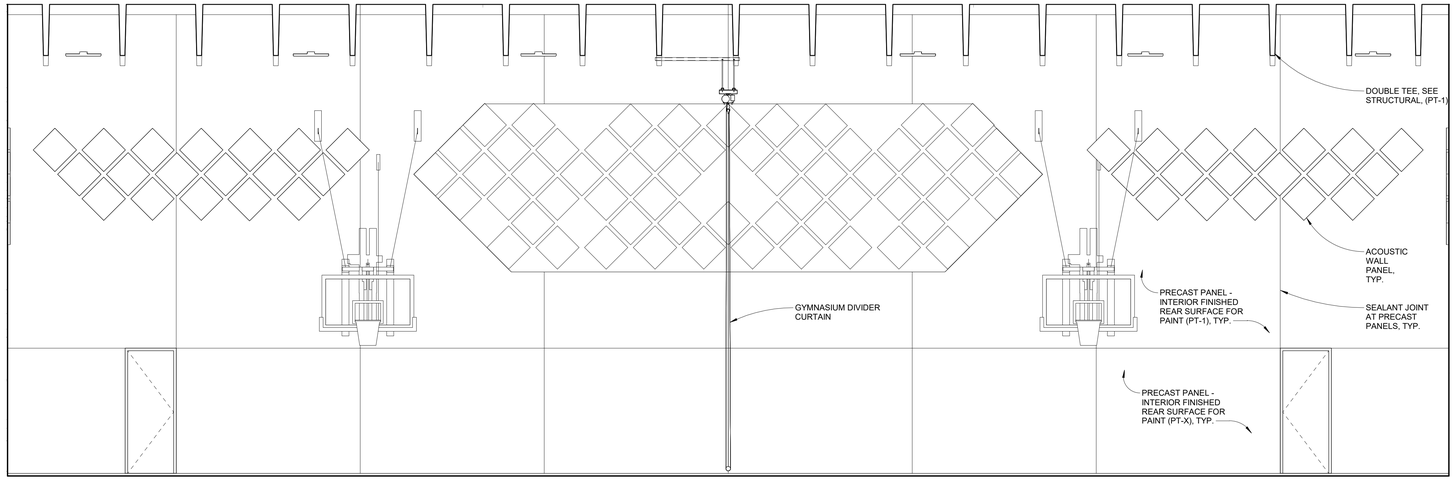
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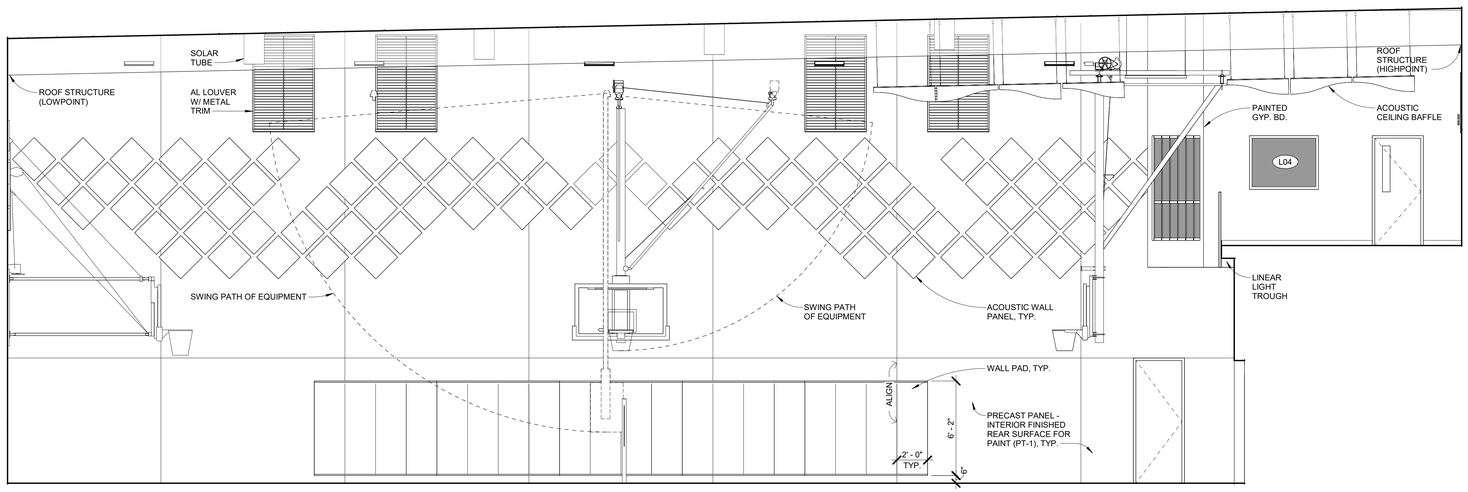
SHEET TITLE:
WALL SECTIONS - ELEVATOR

SHEET NUMBER:

A706



1 INTERIOR ELEVATION - SHELTER LOOKING NORTH
1/4" = 1'-0"



2 INTERIOR ELEVATION - SHELTER LOOKING EAST
1/4" = 1'-0"

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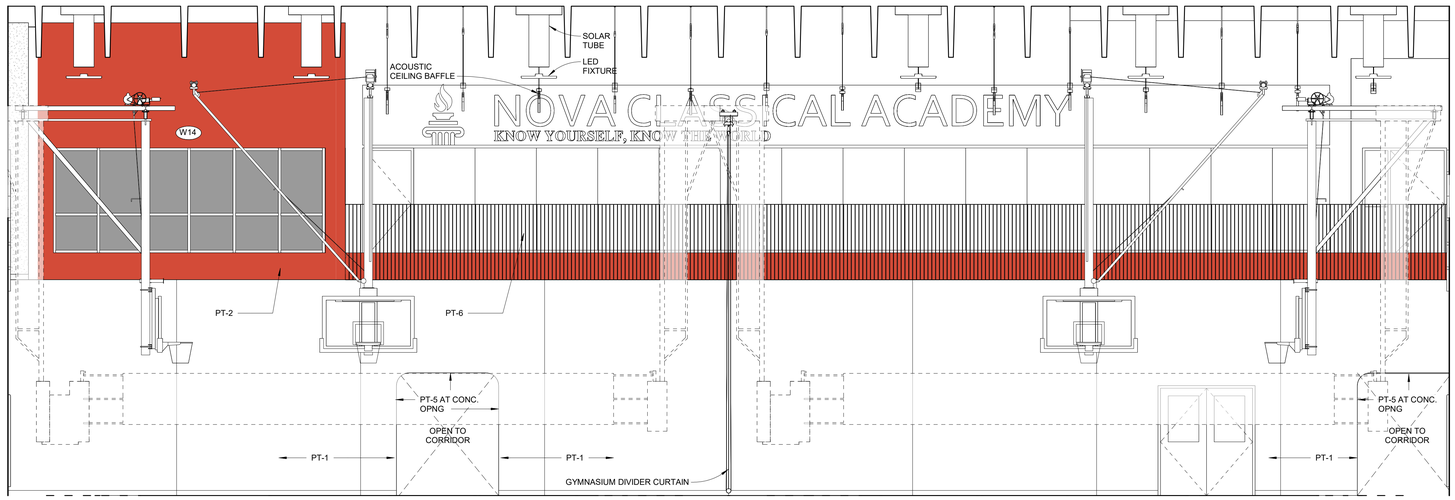
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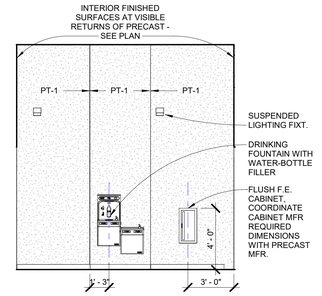
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INTERIOR ELEVATIONS - SHELTER

SHEET NUMBER:

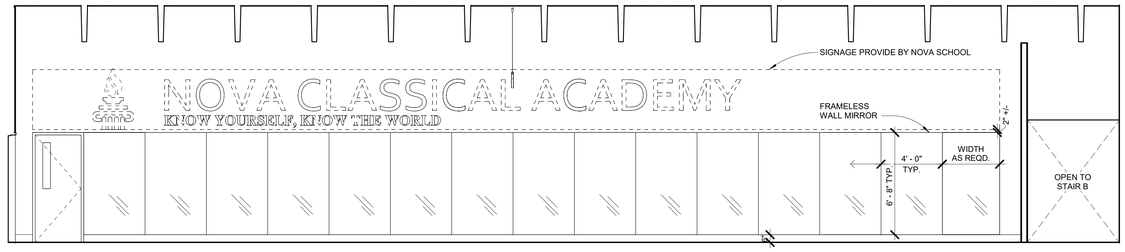
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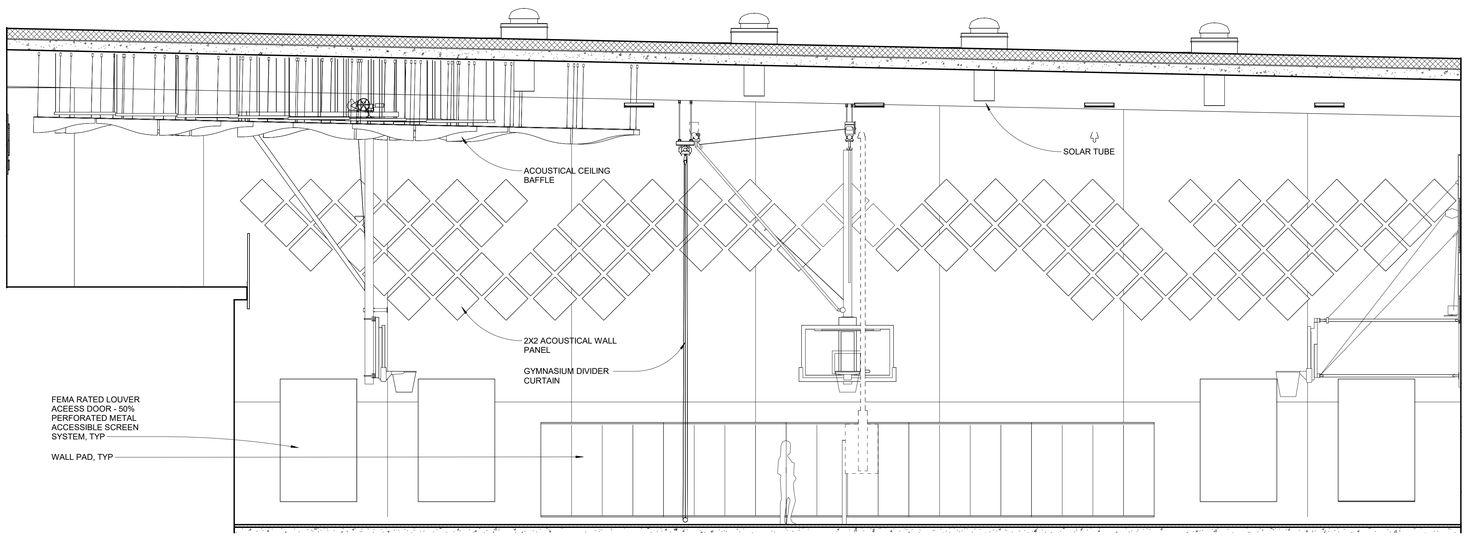
1 INTERIOR ELEVATION - SHELTER LOOKING SOUTH
1/4" = 1'-0"



2 INTERIOR ELEVATION - CORRIDOR 102
1/4" = 1'-0"



3 INTERIOR ELEVATION - MEZZANINE LOOKING SOUTH
1/4" = 1'-0"



4 INTERIOR ELEVATION - SHELTER LOOKING WEST
1/4" = 1'-0"

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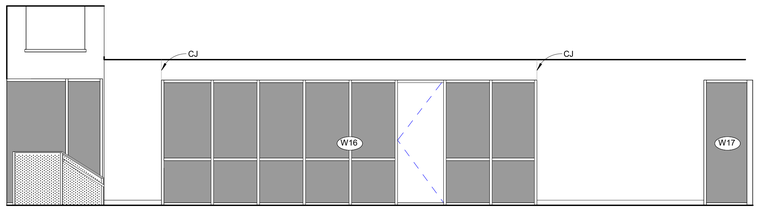
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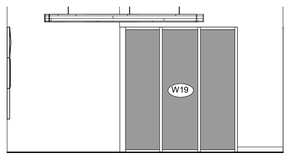
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SHEET NUMBER:

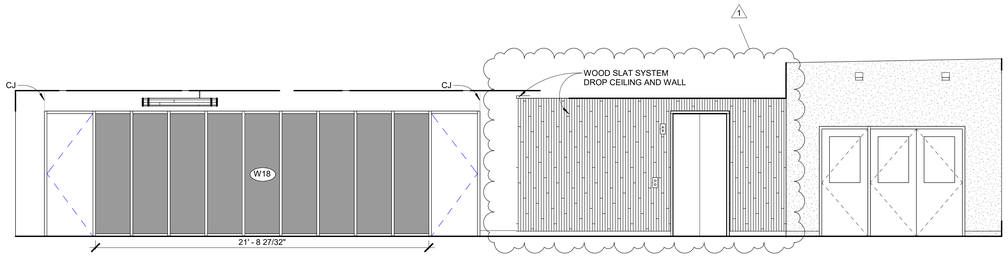
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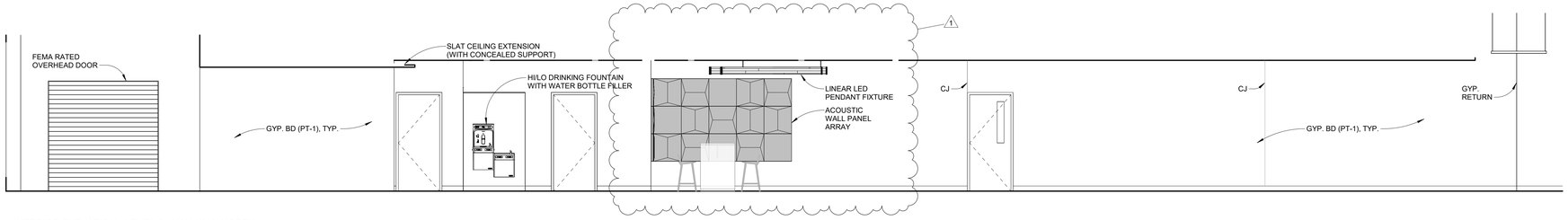
1 INTERIOR ELEVATION - LEVEL 2 - HALLWAY SOUTH
1/4" = 1'-0"



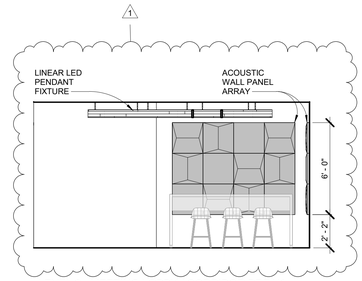
2 INTERIOR ELEVATION - LEVEL 2 - MTSS OFFICE
1/4" = 1'-0"



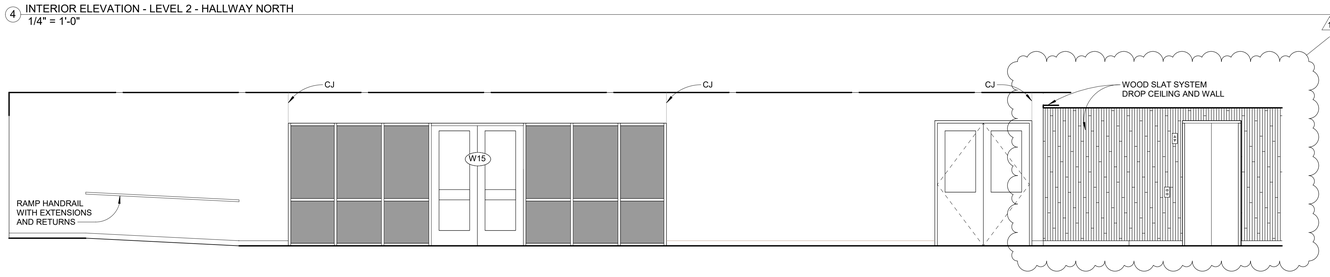
3 INTERIOR ELEVATION - LEVEL 2 - HALLWAY SOUTH - MEETING ROOM AND ELEVATOR LOBBY
1/4" = 1'-0"



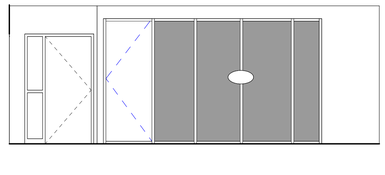
4 INTERIOR ELEVATION - LEVEL 2 - HALLWAY NORTH
1/4" = 1'-0"



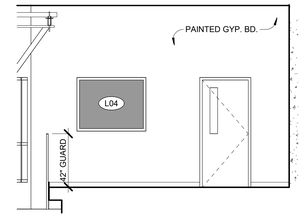
5 LEVEL 2 - MEETING LOBBY / CORRIDOR BREAK
1/4" = 1'-0"



6 INTERIOR ELEVATION - LEVEL 1 - HALLWAY SOUTH
1/4" = 1'-0"



7 INTERIOR ELEVATION - MEETING ROOM
1/4" = 1'-0"



8 INTERIOR ELEVATION - MEZZANINE EAST
1/4" = 1'-0"

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Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
Tel. 612.338.4990

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY
ST. PAUL, MN 55102
Phone: 651.209.6320

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY IMPROVEMENTS & EXPANSION
Project Number: 23008.003
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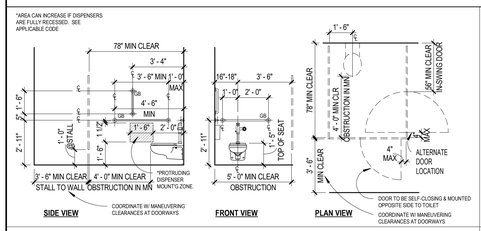
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INTERIOR ELEVATIONS

SHEET NUMBER:

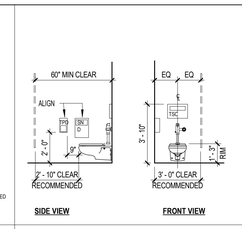
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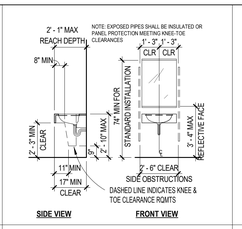
MOUNTING CRITERIA FOR UNIVERSAL DESIGN



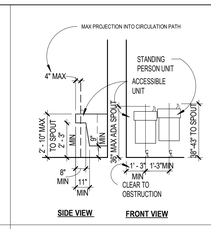
ACCESSIBLE TRANSFER TOILET **COORDINATE TILE EXTENTS WITH GRAB BAR LOCATIONS



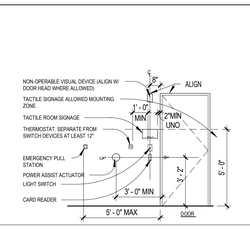
STANDARD TOILET STALL



ACCESSIBLE LAVATORY

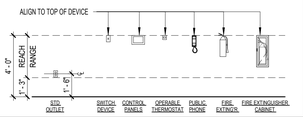


ACCESSIBLE DRINKING FOUNTAIN

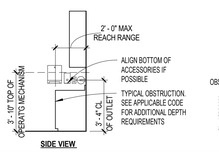


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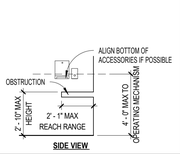
1. THE MOUNTING HEIGHT DIAGRAMS DO NOT NECESSARILY REPRESENT ALL OF THE WALL MOUNTED ITEMS FOR THE PROJECT. ADDITIONALLY, SOME ITEMS MAY BE SHOWN THAT ARE NOT IN THE PROJECT. COORDINATE W/ ARCHITECT FOR MOUNTING HEIGHT ON ITEMS NOT REPRESENTED IN DIAGRAM.
2. PROVIDE SOLID BLOCKING TO SUPPORT WALL MOUNTED ITEMS (INCLUDING, BUT NOT LIMITED TO, MAP RAILS, MARKER BOARDS, SIGNAGE, CASEWORK, MILLWORK, AND TOILET ACCESSORIES).
3. THE REQUIREMENTS NOTED IN THE DIAGRAMS ILLUSTRATE BEST PRACTICES. GC IS OBLIGATED TO MEET NATIONAL AND LOCAL CODE REQUIREMENTS. CONTACT ARCHITECT IF A DISCREPANCY EXISTS.
4. ACCESSORIES ARE TO BE 1-1/2" CLEAR OF EDGES OF GRASPABLE SURFACE OF A GRAB BAR.
5. COAT HOOK/BUMPER ON BACK OF STALL DOORS TO BE MOUNTED AT 48"AFF IN ACCESSIBLE AND AMBULATORY STALLS AND 60" IN STANDARD STALL.
6. EXPOSED PIPES WITHIN REQUIRED KNEE & TOE CLEARANCE ARE REQUIRED TO HAVE AN INSULATED PIPE WRAP.
7. LAVS & SINKS TO MEET REACH RANGE REQUIREMENTS TO DEPTH OF BOWL, UNO.
8. SEE TOILET PLAN(S) FOR REQUIRED ACCESSORIES. TOILET ACCESSORY STYLES MAY VARY FROM REPRESENTED SYMBOL. OPERATING MECHANISMS ARE TO BE WITHIN REACH RANGE PER MANUFACTURER'S RECOMMENDED ACCESSIBLE MOUNTING HEIGHT. COORDINATE W/ ARCHITECT IF MANUFACTURER DOES NOT HAVE A RECOMMENDED ACCESSIBLE MOUNTING HEIGHT.
9. AT TOILET ROOMS, TILE TO BE COORDINATED WITH WALL MOUNTED ITEMS. IF TILE TERMINATES BELOW WALL MOUNTED ITEM, PROVIDE BLOCKING AND SEALANT TO CLOSE OFF ANY GAPS. DO NOT RUN TILE AROUND ITEM. IF TILE TERMINATES HORIZONTALLY ALONG A WALL MOUNTED ITEM, COORDINATE TILE EXTENTS W/ ARCHITECT PRIOR TO INSTALL OF TILE.
10. ACCESSORIES ARE TO PROTRUDE LESS THAN 4" FROM WALL OR BE PLACED OUTSIDE OF A CIRCULATION PATH.



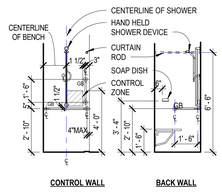
WALL MOUNTED ACCESSORIES - UNOBSTRUCTED



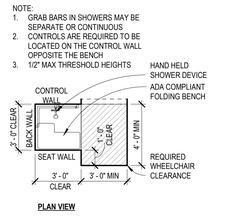
WALL MOUNTED ACCESSORIES - OBSTRUCTED PARALLEL APPROACH

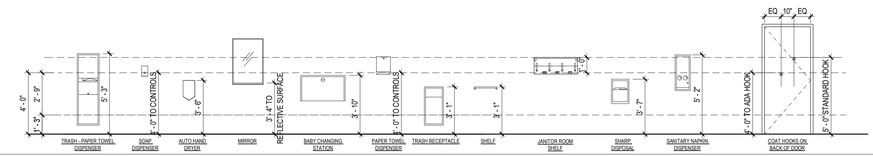


WALL MOUNTED ACCESSORIES - OBSTRUCTED FORWARD APPROACH

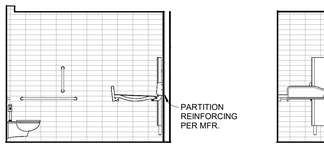


ACCESSIBLE TRANSFER SHOWER

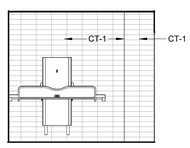




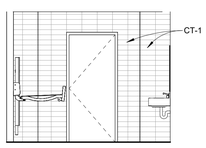
WALL MOUNTED ACCESSORIES - UNOBSTRUCTED NOTE: DIMENSIONS SHOWN ARE MUNFACTURER'S RECOMMENDED ACCESSIBLE MOUNTING HEIGHTS



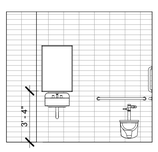
1 LEVEL 2 - TOILET 207 (SIM. AT 206) - NORTH
1/4" = 1'-0"



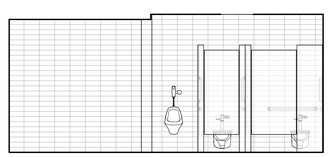
2 LEVEL 2 - TOILET 207 (SIM. AT 206) - EAST
1/4" = 1'-0"



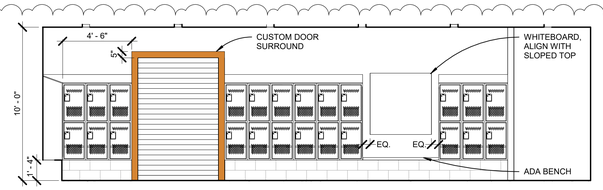
3 LEVEL 2 - TOILET 207 (SIM. AT 206) - SOUTH
1/4" = 1'-0"



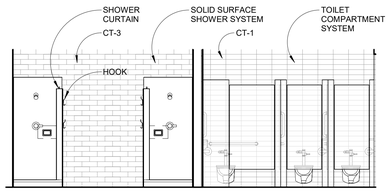
4 LEVEL 2 - TOILET 207 (SIM. AT 206) - WEST
1/4" = 1'-0"



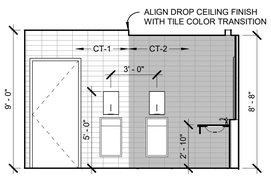
5 LEVEL 1 - MEN'S TOILET
1/4" = 1'-0"



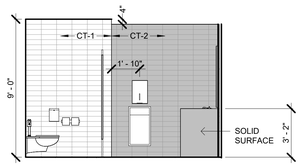
6 LEVEL 1 - WOMAN'S LOCKER - NORTH WALL(SIM AT MEN'S)
1/4" = 1'-0"



7 LEVEL 1 - WOMAN'S TOILET
1/4" = 1'-0"



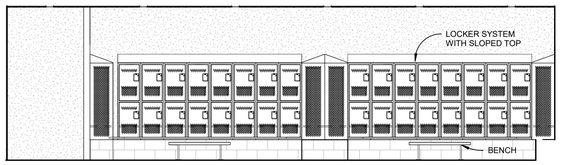
8 LEVEL 1 - WOMAN'S TOILET 105 EAST(SIM AT MEN'S)
1/4" = 1'-0"



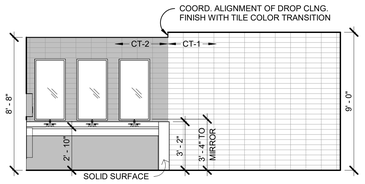
9 LEVEL 1 - WOMAN'S TOILET - EAST WALL(SIM AT MEN'S)
1/4" = 1'-0"



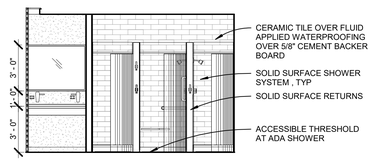
14 ILLUSTRATIVE VIEW AT WOMEN'S LOCKER (SIM. AT MEN'S)



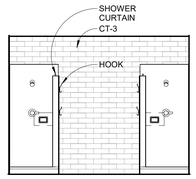
10 LEVEL 1 - WOMAN'S LOCKER - SOUTH WALL(SIM AT MEN'S)
1/4" = 1'-0"



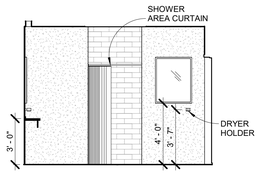
11 LEVEL 1 - WOMEN'S TOILET 105 SOUTH(SIM AT MEN'S)
1/4" = 1'-0"



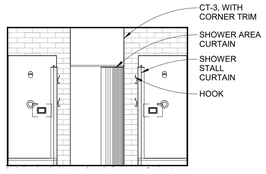
12 LEVEL 1 - WOMEN'S SHOWER WEST (SIM AT MEN'S)
1/4" = 1'-0"



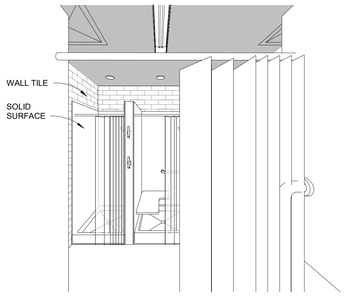
13 LEVEL 1 - WOMEN'S SHOWER NORTH (SIM AT MEN'S)
1/4" = 1'-0"



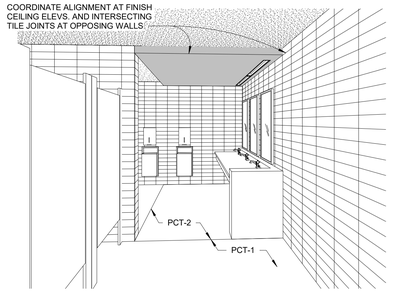
15 LEVEL 1 - WOMEN'S SHOWER - VANITY
1/4" = 1'-0"



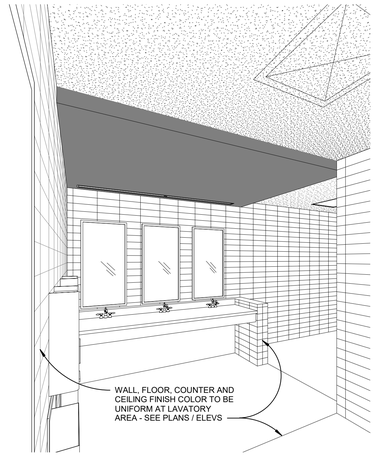
16 LEVEL 1 - WOMEN'S SHOWER SOUTH (SIM AT MEN'S)
1/4" = 1'-0"



17 ILLUSTRATIVE VIEW AT WOMEN'S SHOWER AREA (SIM. AT MEN'S)



18 ILLUSTRATIVE VIEW OF WOMEN'S LAVATORY AREA (SIM. AT MEN'S)



19 ILLUSTRATIVE VIEW OF WOMEN'S LAVATORY AREA (SIM. AT MEN'S)

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Suite 200
St. Paul, MN 55114
Tel. 612.338.4990

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY
ST. PAUL, MN 55102
Phone: 651.209.6320

CONSULTANT

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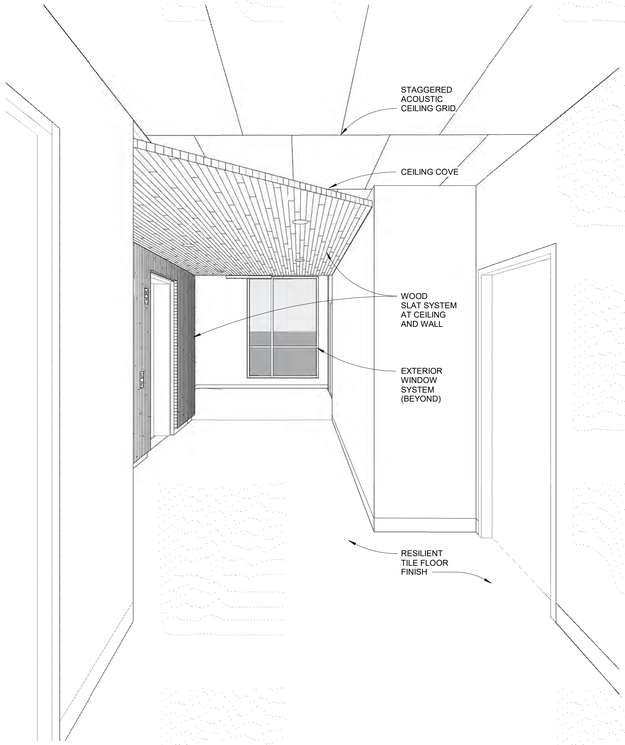
05/07/2025
DATE

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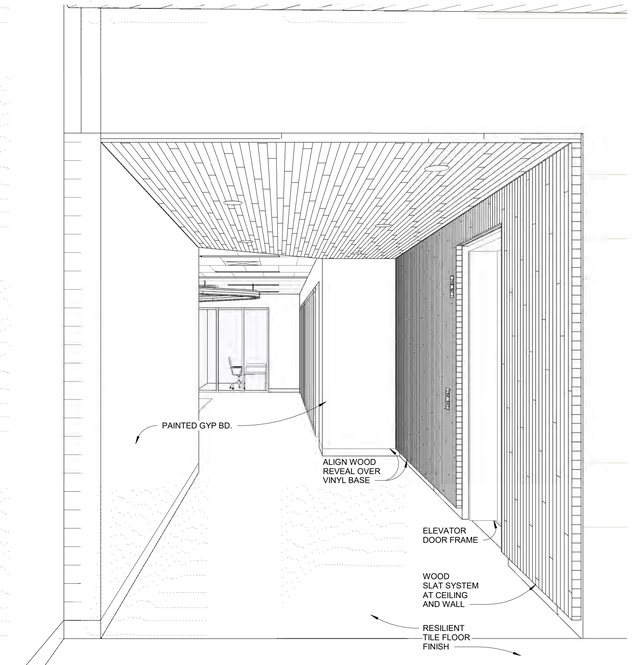
SHEET TITLE:
INTERIOR ELEVATIONS - TOILET, LOCKERS & SHOWER

SHEET NUMBER:

A804



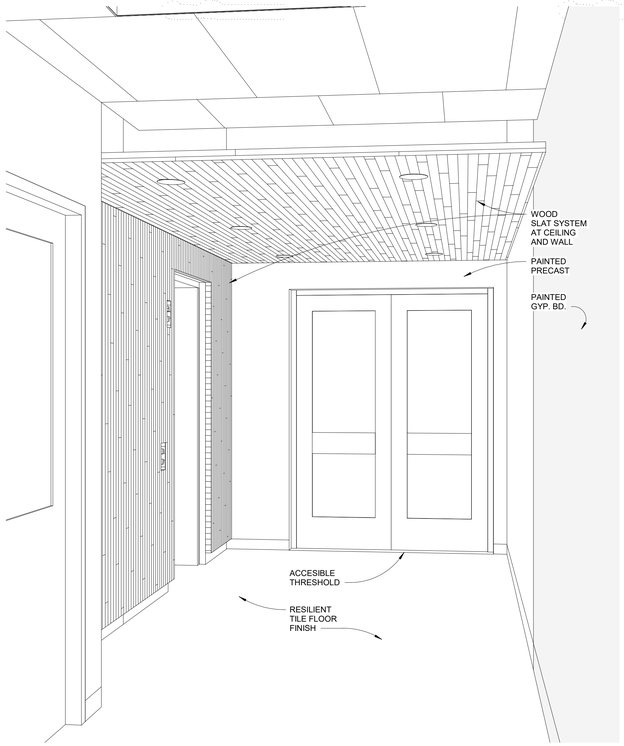
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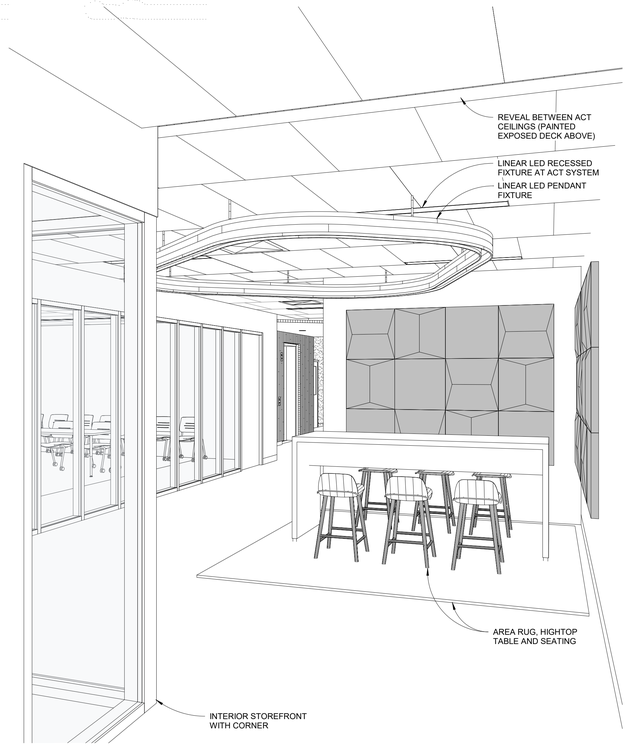
2 ILLUSTRATIVE VIEW OF LEVEL 2 - ELEVATOR LOBBY (LOOKING EAST)



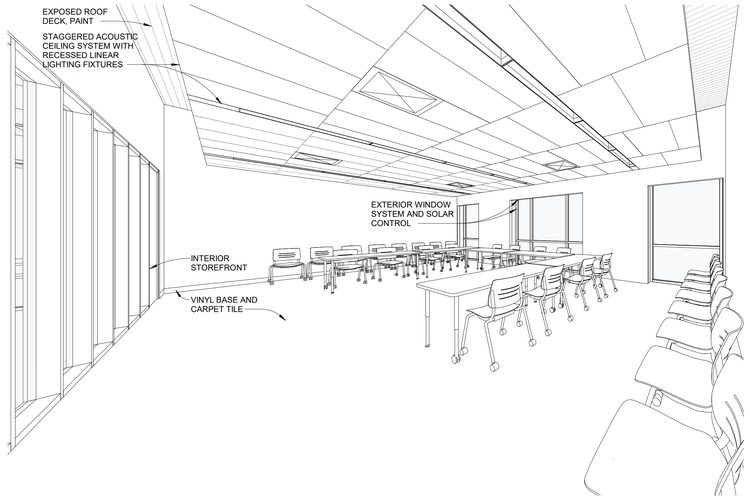
3 ILLUSTRATIVE VIEW OF LEVEL 2 MEETING ROOM (TOWARD HALLWAY)



4 ILLUSTRATIVE VIEW OF LEVEL 1 - ELEVATOR LOBBY (LOOKING EAST)



5 ILLUSTRATIVE VIEW OF LEVEL 2 CORRIDOR BREAK AREA



6 ILLUSTRATIVE VIEW OF LEVEL 2 MEETING ROOM (TOWARD SOUTH WALL)

1

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Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
Tel. 612.338.4990

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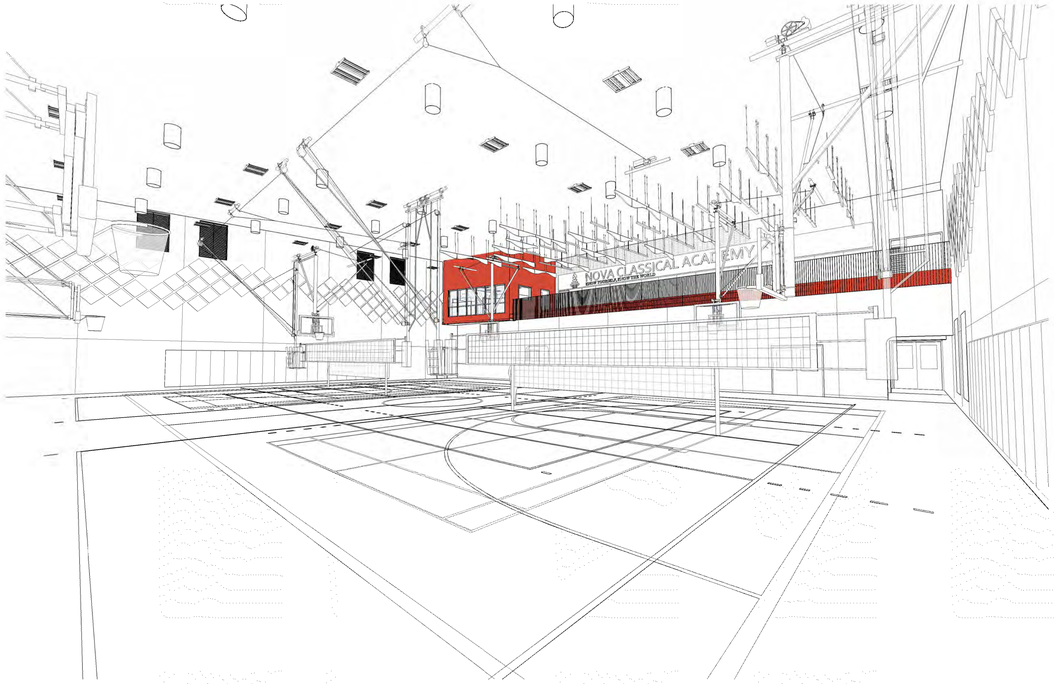
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SHEET TITLE:
INTERIOR ELEVATIONS - 3D VIEW

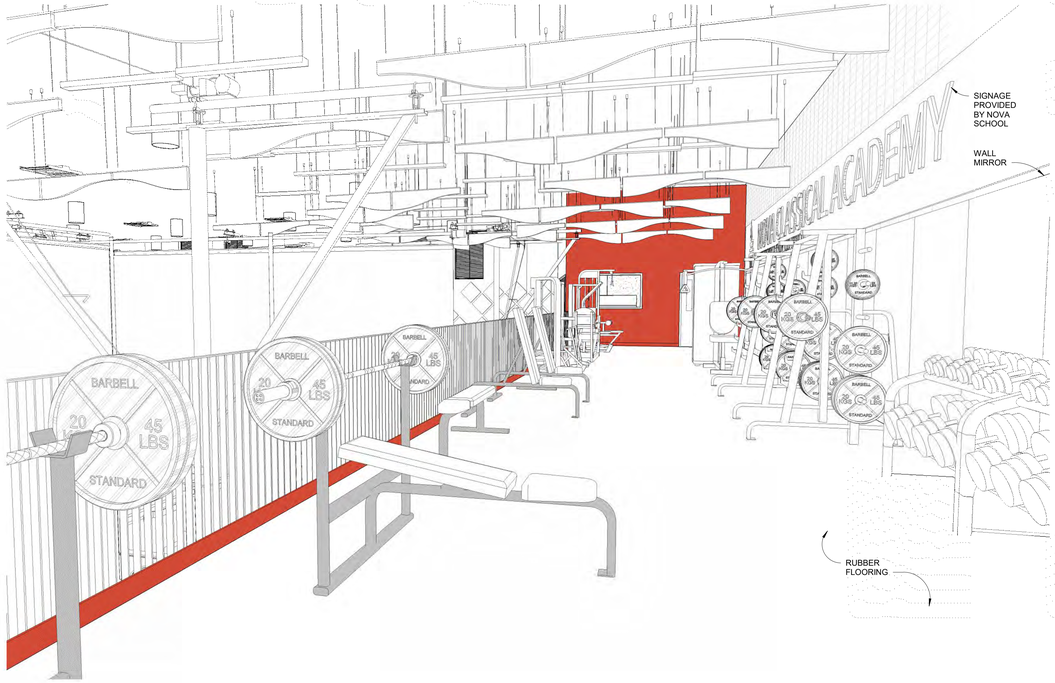
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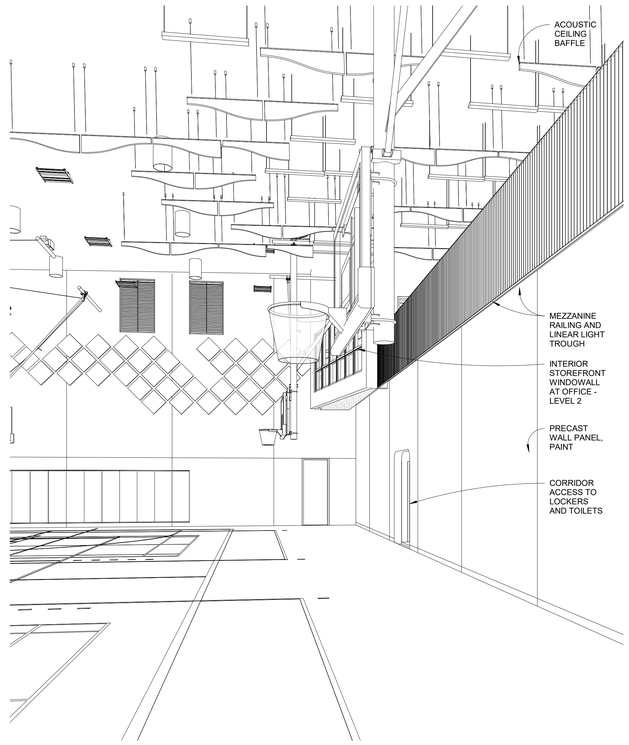
1 ILLUSTRATIVE VIEW OF GYM



2 ILLUSTRATIVE VIEW OF WEIGHT ROOM



3 LOCKERS AT LEVEL 3 EXISTING



4 ILLUSTRATIVE VIEW ALONG EDGE OF MEZZANINE

1

BLOOM
HAY DOBBS

Midtown Commons
2324 University Ave. W,
Suite 200
St. Paul, MN 55114
Tel. 612.338.4590

NOVA CLASSICAL ACADEMY
1455 VICTORIA WAY
ST. PAUL, MN 55102
Phone: 651.209.6320

CONSULTANT

Project Name: NOVA CLASSICAL ACADEMY IMPROVEMENTS & EXPANSION
Project Number: 23008.003
Date: 05/07/2025

Rev. 1
Date: 2025 07 29
Desc.ADDENDUM 1

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME

SIGNATURE

LICENSE NO.

05/07/2025
DATE

DD DOCUMENT Not For Construction

SHEET TITLE:
INTERIOR ELEVATIONS - 3D VIEW

SHEET NUMBER:

A806

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