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Centennial Office Building Demolition

Environmental Assessment Worksheet

Wold Architects and Engineers
September 2026

BOLTON & MENK
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1. Project Title

Centennial Office Building Demolition

2. Proposer

Organization: Mn Department of Administration

Contact Person: Ryan Allen

Title:

Address: 50 Sherburne Avenue

City, State, Zip: St. Paul, MN 55155

Phone: 651-201-2392

Email: ryan.allen@state.mn.us

3. Responsible Governmental Unit (RGU)

Organization: Mn Department of Administration

Contact Person: Stacie Christensen

Title: Deputy Commissioner

Address: 50 Sherburne Avenue

City, State, Zip: Saint Paul, MN 55155

Phone: 651-201-2500

Email: stacie.christensen@state.mn.us

4. Reason for EAW Preparation

Required:	**Discretionary**
☐ EIS Scoping	☐ Citizen Petition
	☒ RGU discretion Discretionary because the Centennial Office Building has been determined eligible for listing on the National Register of Historic Places as a contributing resource to the eligible Capitol Mall Historic and Archaeological District and the District may be officially listed at or near the time of the proposed demolition. MN Rules 4410.4300. Subpart 31. Historical places.
	☐ Proposer initiated

5. Project Location

County: Ramsey County

City/Township: Saint Paul

PLS Location (¼, ¼, Section, Township, Range): NE ¼ of the SW ¼ of Section 31, Township 29 North, Range 22 West

Watershed (81 major watershed scale): Mississippi River – Twin Cities

GPS Coordinates: 44.9533297, -93.0997057

Tax Parcel Number: 312922310037

At a minimum attach each of the following to the EAW:

- County map showing the general location of the project.
- U.S. Geological Survey 7.5 minute, 1:24,000 scale map indicating project boundaries (photocopy acceptable); and
- Site plans showing all significant project and natural features. Pre-construction site plan andpost-construction site plan.
- List of data sources, models, and other resources (from the Item-by-Item Guidance: *Climate Adaptation and Resilience* or other) used for information about current Minnesota climate trends and how climate change is anticipated to affect the general location of the project duringthe life of the project (as detailed below in item 7. Climate Adaptation and Resilience).

6. Project Description

a) *Provide the brief project summary to be published in the EQB Monitor, (approximately 50 words).*

Wold Engineers and Architects is preparing plans and specifications for demolition of the Centennial Office Building at 658 Cedar St, Saint Paul, MN. The project includes full structure removal, including foundations and utilities serving the site. Municipal utilities removal will comply with City requirements to remove the service to the main. After demolition and site fill, the area will be converted into an open landscaped green space with an infiltration area. Work is scheduled for 2028.

b) *Give a complete description of the proposed project and related new construction, including infrastructure needs. If the project is an expansion include a description of the existing facility. Emphasize: 1) construction, operation methods and features that will cause physical manipulation of the environment or will produce wastes, 2) modifications to existing equipmentor industrial processes, 3) significant demolition, removal or remodeling of existing structures, and 4) timing and duration of construction activities*

Wold Engineers and Architects is preparing plans and specifications for the demolition of the Centennial Office Building located at 658 Cedar St, Saint Paul, MN 55155. The State of Minnesota owns the building. This site is located in NE ¼ of the SW ¼ of Section 31, Township 29 North, Range 22 West.

The scope of work calls for the complete dismantling of the multi-story Centennial Office Building,

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including its foundations, footings, and utility connections. All related infrastructure—such as the brick smokestack, above-ground fuel tank, concrete pump house, and retaining walls—will be removed. Once demolition is finished, the site will be backfilled and graded to facilitate stormwater drainage and blend with the surrounding area.

To preserve the existing tunnel system rather than remove it, two egress doors will be added—one on the northwest side and one on the southwest side of the project area, see Appendix A for map with egress hatches. Each egress point will feature a rectangular hatch flush with the ground measuring 14 feet 4 inches by 5 feet 8 inches, surrounded by a concrete collar to facilitate maintenance access. These hatches will not be connected to sidewalks or other pedestrian infrastructure, as they are intended solely for emergency or maintenance use.

Pedestrian tunnel access from the Veterans Service Building and Judicial Center will be blocked, and the curb, gutter, pavement, and vegetated areas will be restored where utilities have been removed. Structurally, the existing Centennial Office Building consists of a cast-in-place concrete substructure supported on piles and pile caps, with a superstructure of steel columns, beams, and girders topped by composite concrete floor decks. The exterior features granite veneer over brick masonry, complemented by aluminum storefronts and windows. The roof is finished with a membrane roofing system. Interior partitions are made up of masonry, gypsum board with metal studs, and wood panels.

All elevators will be decommissioned and removed. Sanitary sewer and drinking water services will be removed to the main; gas and electric services will be disconnected in coordination with local providers. The exact location of underground piping is unknown. Once demolition is complete, approximately 24,700 cubic yards of compacted fill will be used to fill the foundations and basement.

After demolition and site fill are completed, the area will be converted into an open, landscaped green space. The site will be graded and planted with grass and vegetation to provide a clean and functional outdoor area. Tree or other screening of the adjacent parking garage may occur, depending on final review and recommendations from permitting and approval authorities.

The southeast portion of the site will be sloped to create an infiltration area with an 1,800 square foot bottom area at an elevation of 804 feet. The infiltration area will be designed to draw down in 24 hours or less in accordance with the MN Construction Stormwater General Permit.

The stormwater infiltration area will be designed with layered landscaping to support both stormwater management and vegetation growth. The surface layer will feature grass planted in 6 inches of topsoil, providing a green, stabilized cover. Around planted vegetation, shredded wood mulch (MnDOT Type 6) will be applied at a minimum depth of 3 inches to retain moisture and suppress weeds. Trees, when planted with a root ball or pot, will be supported by stakes for stability. Beneath the mulch, a specially formulated infiltration soil mixture will be engineered to promote water absorption and root development. The area will be bordered with typical landscape edging and enclosed with a sediment control log around the full perimeter, which will be removed once upslope areas are permanently stabilized. Prior to planting, the subgrade will be excavated using a toothed bucket backhoe, and soils will be ripped 6 to 9 inches deep to alleviate compaction. The bottom of the excavation will be flat and filled with soil that will transition between existing SP sands and a sand subbase, ensuring proper drainage and structural support for the vegetation above.

Abatement and demolition are expected to take place in 2028. Project activities are expected to last eight to twelve months.

A licensed abatement contractor will conduct the removal of all asbestos-containing materials (ACMs) within regulated containment areas. This process includes establishing critical barriers and operating negative air machines to prevent the release of asbestos fibers. For example, pipe and duct

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insulation will be removed floor by floor within sealed work zones. Large adhesive-coated insulation panels located in the air shaft will be carefully stripped and disposed of as asbestos waste. The entire abatement process is expected to take approximately 12 weeks (around 60 working days), reflecting the volume of ACMs and the need for methodical removal and clearance inspections. During this phase, an average of 10–12 abatement workers will be on-site, operating in multiple containment areas simultaneously.

Throughout the abatement, continuous air monitoring and final visual inspections will be conducted to ensure compliance with removal specifications. In parallel, the abatement team—or specialized crews—will remove other regulated materials such as fluorescent lamps, ballasts, mercury thermostats, and similar items. These materials will be sorted and sent to appropriate recycling or disposal facilities (e.g., mercury lamps to a recycler, PCB-containing ballasts to a TSCA-approved facility).

Upon completion of abatement, the contractor will obtain pre-demolition inspection approval from Ramsey County. This includes an on-site inspection to confirm that all hazardous materials and appliances have been removed prior to structural demolition. The contractor will provide documentation—such as asbestos abatement reports and waste manifests—to the county inspector as proof. Only after receiving official sign-off from the county can building demolition proceed.

c) *Project magnitude*:

Description	Number
Total Project Acreage	2.9
Linear project length	n/a
Number and type of residential units	0
Residential building area (in square feet)	0
Commercial building area (in square feet)	0
Industrial building area (in square feet)	0
Institutional building area (in square feet)	0
Other uses – specify (in square feet)	n/a
Structure height(s)	0

d) *Explain the project purpose; if the project will be carried out by a governmental unit, explain theneed for the project and identify its beneficiaries.*

The purpose of this project is to safely and systematically demolish the Centennial Office Building, located at 658 Cedar Street in Saint Paul, Minnesota, to prepare the site for interim use as open, landscaped green space until future redevelopment of the site, which is not expected to occur for at least eight to ten years. The Centennial Office Building will be 69 years old in 2027. It has served the State well since it opened in 1958, but to continue to use the building would require a substantial investment in a comprehensive replacement of outdated building systems, which are beyond the end of their useful life. Maintenance and repair requirements are steadily increasing, its energy and carbon footprints are significantly larger than modern facilities, and its functionality is sub-optimal for today's workforce. The cost to renovate the Centennial Office Building is estimated to be $175 million - $250 million, depending on timeline, inflation, and other factors. With the State's limited bonding capacity and significant asset preservation needs across the State, other state facilities are a higher priority for investment of limited State resources. The project also aims to responsibly manage hazardous materials through abatement, promote sustainability by reusing demolition debris, and restore the site with stormwater-friendly landscaping, including a designed infiltration area.

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e) *Are future stages of this development including development on any other property planned orlikely to happen*? X☐ Yes No

If yes, briefly describe future stages, relationship to present project, timeline and plans for environmental review. Although no specific plans or timeline have been developed, the site is anticipated to be redeveloped in the future.

f) *Is this project a subsequent stage of an earlier project*? ☐Yes Ξ No

If yes, briefly describe the past development, timeline and any past environmental review.

7. Climate Adaptation and Resilience

a) *Describe the climate trends in the general location of the project (see guidance: Climate Adaptation and Resilience) and how climate change is anticipated to affect that location duringthe life of the project.*

According to the Minnesota Department of Natural Resources, Climate Trends, "Minnesota's climate already is changing rapidly and will continue to do so for the foreseeable future. Temperatures are increasing, especially in winter, and larger, more frequent extreme precipitation events are occurring. Substantial warming during winter and at night, increased precipitation, and heavier downpours already have affected our natural resources, and how we interact with and use them. The decades ahead will bring even warmer winters and nights, and even larger rainfalls, along with the likelihood of increased summer heat ant the potential for longer dry spells."

Climate trends for Ramsey County parallel the statewide overall trends for temperature and precipitation indicating Minnesota's climate is becoming warmer and wetter. **Exhibit 1** and **Exhibit 2**, below, generated from the *Minnesota Climate Explorer*[1] in June 2025, show the average annual temperatures and precipitation for Ramsey County, Minnesota from 1895 to 2024. From 1895 to 2024, Ramsey County experienced an average increase of 0.21 degrees Fahrenheit per decade and an average precipitation increase of 0.31 inches per decade.

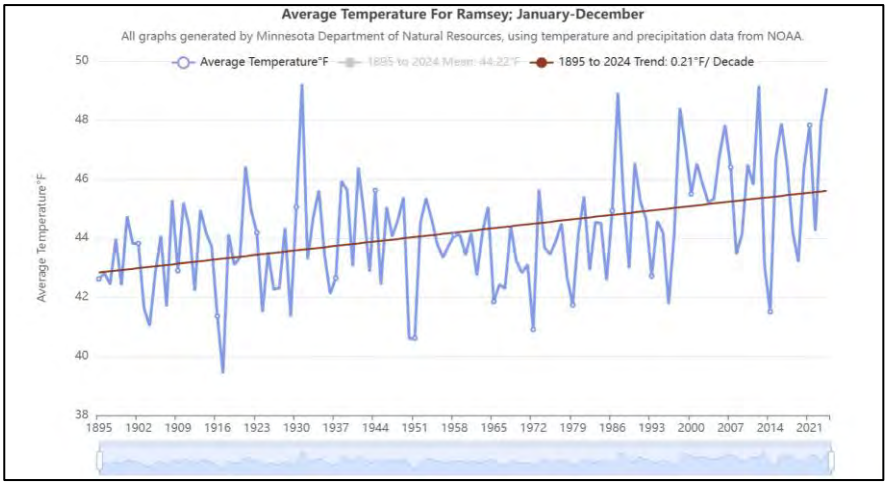

Exhibit 1 - Average Temperature for Ramsey County, January-December, 1895-2024
Minnesota Climate Explorer. September 2025

[1] https://climate-explorer.dnr.state.mn.us/main/historical

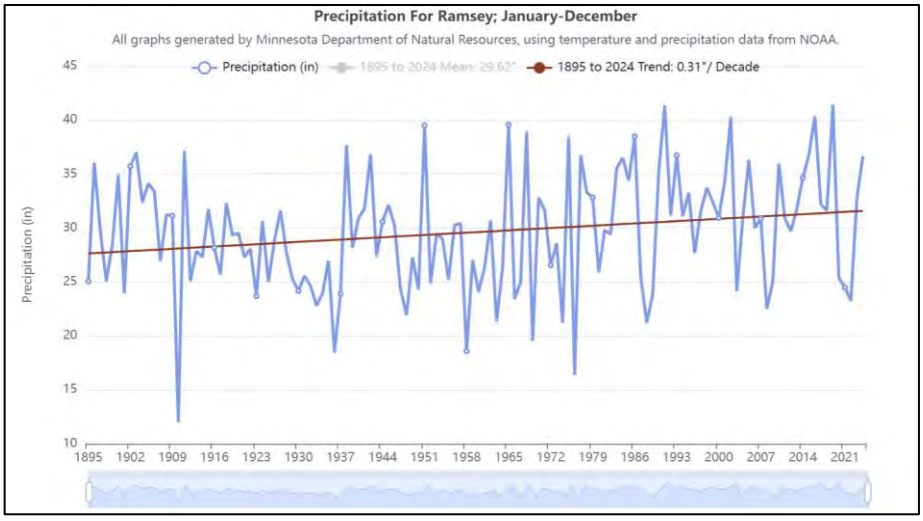

Exhibit 2 - Precipitation for Ramsey County, January-December, 1895-2024
Minnesota Climate Explorer. September 2025

The Palmer Drought Severity Index (PDSI), generated from the *Minnesota Climate Explorer*[2], utilizes temperature and precipitation data to estimate relative soil moisture conditions and serve as an indicator of long-term drought conditions. The index ranges from -5 to +5 indicating dry and wet conditions, respectively. PDSI values are reported on a monthly basis. **Exhibit 3** shows historic PDSI values for the month of June from 1895 to 2024 for Ramsey County. The trend line from 1895 to 2024 indicates an increase of 0.19 per decade. Generally, the PSDI historical data indicates that the region is experiencing a wetter climate.

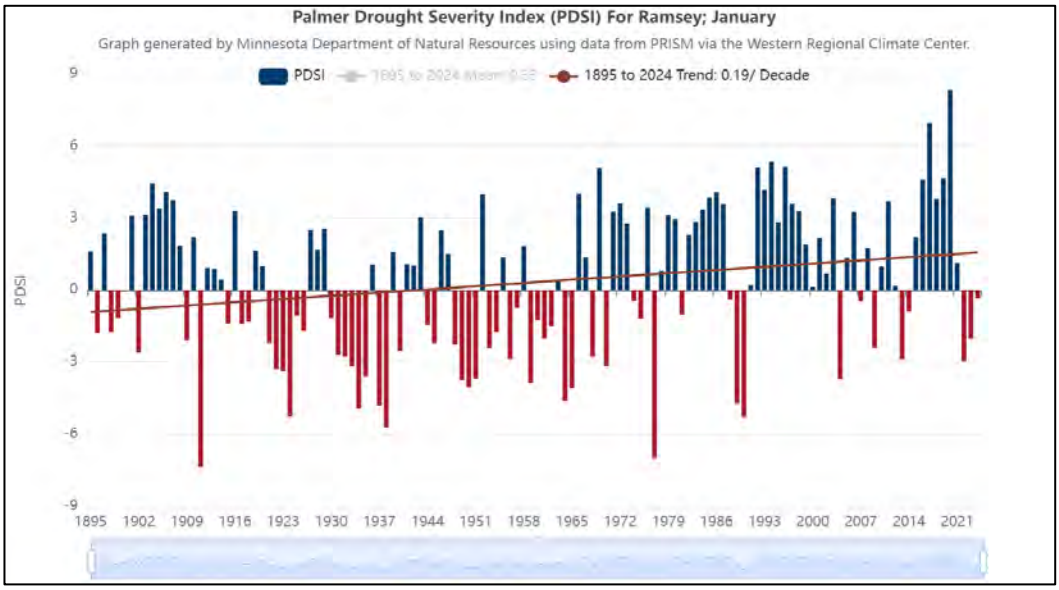

Exhibit 3 - Historical PDSI Values for Ramsey County, June, 1895-2024
Minnesota Climate Explorer. June 2025.

[2] https://climate-explorer.dnr.state.mn.us/main/historical

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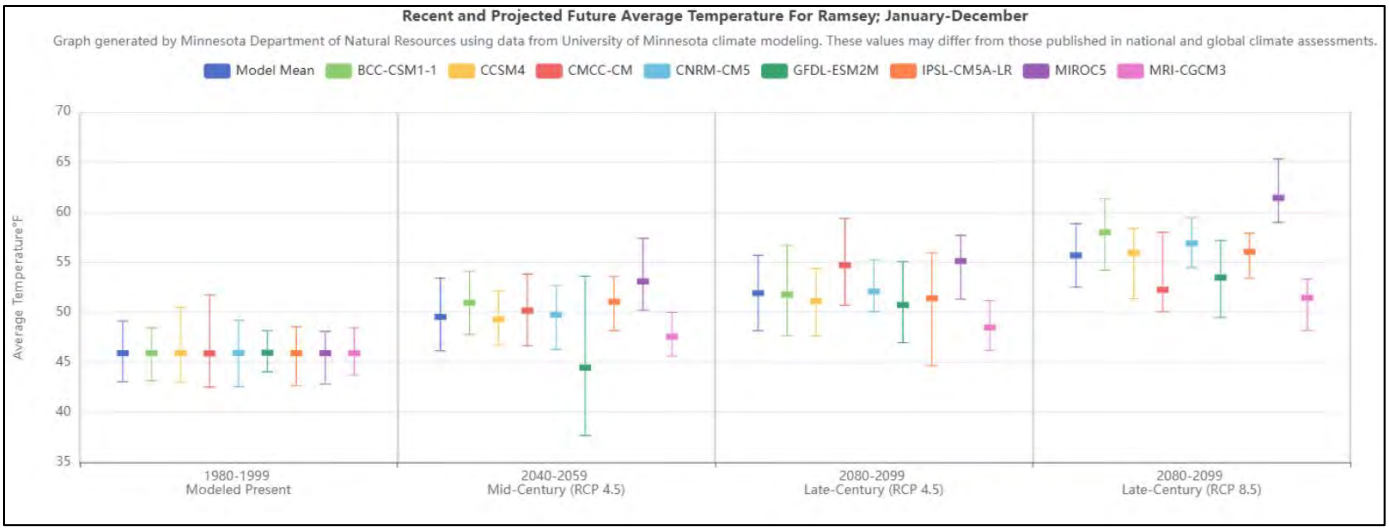

Exhibit 4 - Projected Temperatures in Ramsey County
Minnesota Climate Explorer. June 2025.

Projected climate trends indicate that temperatures within the County will continue to increase. **Exhibit 4** illustrates projected temperatures[3] for the County. Several climate models are shown in the projected temperature analysis. The model mean, shown in blue, illustrates the average of all models included in the analysis. **Exhibit 4**. shows the modeled present condition, mid-century (2040-2059) at Representative concentration Pathway (RCP) 4.5, late-century (2080-2099) at RCP 4.5, and late-century (2080-2099) at RCP 8.5. RCP is a greenhouse gas concentration scenario used by the Intergovernmental Panel on Climate Change in the fifth assessment report. RCP 4.5 is an intermediate scenario in which missions decline after peaking around 2040 and RCP 8.5 represents a worst-case scenario in which emissions continue rising through the 21st century. Under the RCP 4.5 scenario, the annual temperature is anticipated to increase within the County from a modeled present mean of 45.91°F (1980-1999) to a mid-century (2040-2059) model mean of 49.53°F and a late-century (2080-2099) model mean of 51.91°F. Under the RCP 8.5 worst-case scenario, the County would experience a late-century (2080-2099) model mean temperature of 55.68°F. Projected climate trends indicate that temperatures within the County will continue to increase.

[3] https://climate-explorer.dnr.state.mn.us/main/historical

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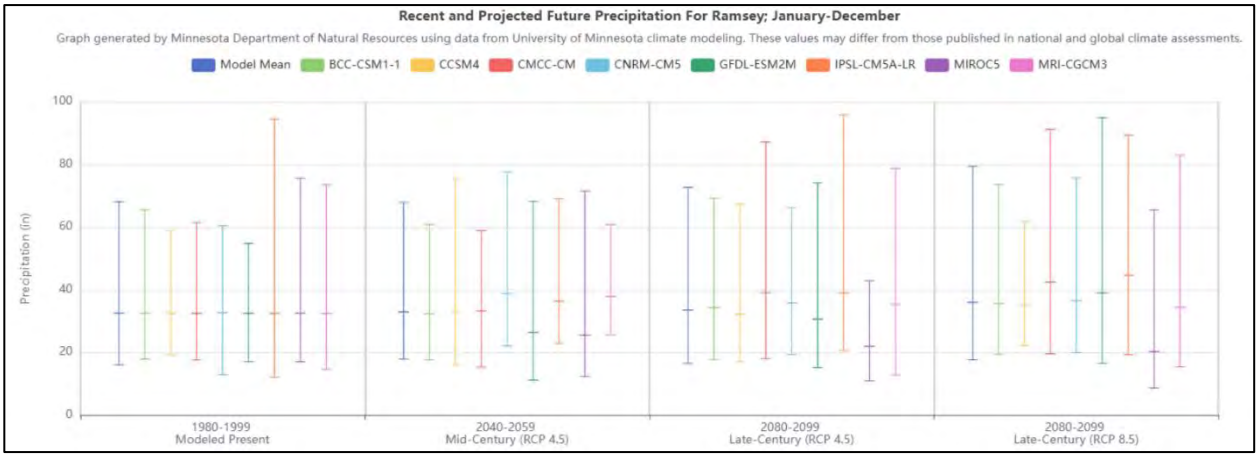

Exhibit 5 - Projected Precipitation in Ramsey County
Minnesota Climate Explorer. June 2025.

Exhibit 5 presents projected average annual precipitation[4] for Ramsey County. Under the RCP 4.5 scenario, the annual precipitation is anticipated to increase within the County from a modeled present mean of 32.48 inches (1980-1999), to a mid-century model mean of 32.95 inches (2040-2059), and a late-century model mean of 33.51 inches (2080-2099). Under the RCP 8.5 worst-case scenario, the County would experience a late-century model mean precipitation of 35.97 inches (2080-2099).

According to the Federal Emergency Management Agency (FEMA) *National Risk Index for Natural Hazards*[5], which illustrates the U.S. communities most at risk for 18 types of natural hazards, overall, Ramsey County, Minnesota is rated relatively moderate compared to the rest of the U.S. This rating is based on a relatively moderate expected annual loss rating, a relatively high social vulnerability rating, and a very high community resilience rating.

Thirteen of eighteen hazard types contribute to the expected annual loss for Ramsey County, Minnesota. Two hazard types is rated very high risk (cold wave, strong wind); two hazard types are rated relatively high risk (heat wave, tornado); four hazard types are rated relatively moderate risk (lightning, hail, landslide, winter weather); three hazard types are rated relatively low risk (ice storm, riverine flooding, wildfire); and two hazard types are rated very low (drought, earthquake).

The Social Vulnerability for each type of hazard is rated relatively high, which means social groups in Ramsey County, Minnesota have a relatively high susceptibility to the adverse impacts of natural hazards when compared to the rest of the U.S. The Community Resilience for each type of hazard is rated very high, which means communities in Ramsey County, Minnesota have a very high ability to prepare for anticipated natural hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions compared to the rest of the U.S. The expected loss each year due to natural hazards in Ramsey County, Minnesota is relatively moderate. FEMA National Risk Index and supporting documents are located in Appendix D.

b) *For each Resource Category in the table below: Describe how the project's proposed activitiesand*

[4] https://climate-explorer.dnr.state.mn.us/main/historical
[5] https://hazards.fema.gov/nri/map

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how the project's design will interact with those climate trends. Describe proposed adaptations to address the project effects identified.

Table 1: Resource Categories			
Resource Category	**Climate Considerations**	Project Information	
		Climate Change Risks and Vulnerabilities	Adaptations
Project Design	The removal of the building will not negatively impact the surrounding environment. This includes not negatively altering climate zones, affecting temperature patterns, and increasing the likelihood of prolonged heat waves.	Climate change risks and vulnerabilities identified include higher rainfall which may result in more localized flooding.	• Promote increasing vegetation that can absorb rainfall by creating green spaces.
Land Use	No critical facilities are proposed, including those essential for public health and safety, those storing hazardous materials, or those housing occupants with limited mobility.	There are no anticipated climate change risks and vulnerabilities to land use.	N/A
Water Resources	Addressed in Item 12	Addressed in Item 12	Addressed in Item 12
Contamination/ Hazardous Materials/ Wastes	Current climate trends in Minnesota and anticipated climate changes in the project's vicinity may affect the environmental impact of generating, using, and storing hazardous waste and materials.	Hazardous waste (asbestos) is expected to be removed during the demolition of the building.	• Any waste collected or generated during demolition will be stored in marked containers in accordance with applicable laws and subsequently disposed of at licensed facilities.
Fish, wildlife, plant communities, and sensitive ecological resources (rare features)	Addressed in Item 14	Address in Item 14	Addressed in Item 14

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8. Cover Types

Estimate the acreage of the site with each of the following cover types before and after development:

Cover Types	Before (acres)	After (acres)
Wetlands and shallow lakes (<2 meters deep)	0	0
Deep lakes (>2 meters deep)	0	0
Wooded/forest	0	0
Rivers/streams	0	0
Brush/Grassland	0	0
Cropland	0	0
Livestock rangeland/pastureland	0	0
Lawn/landscaping	0	1.24
Green infrastructure TOTAL (from table below*)	0	0
Impervious surface	2.96	1.72
Stormwater Pond (wet sedimentation basin)	0	0
Other (describe)	0	0
TOTAL	2.96	2.96

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Green Infrastructure*	Before (acreage)	After (acreage)
Constructed infiltration systems (infiltration basins/infiltration trenches/ rainwater gardens/bioretention areas without underdrains/swales with impermeable check dams)	0	0.0413 (infiltration area)
Constructed tree trenches and tree boxes	0	0
Constructed wetlands	0	0
Constructed green roofs	0	0
Constructed permeable pavements	0	0
Other (describe)	0	0
TOTAL*	0	0

Trees	Percent	Number
Percent tree canopy removed or number of mature trees removed during development	0	0
Number of new trees planted	0	39

9. Permits and approvals required

List all known local, state and federal permits, approvals, certifications and financial assistance for the project. Include modifications of any existing permits, governmental review of plans and all direct and indirect forms of public financial assistance including bond guarantees, Tax Increment Financing and infrastructure. All of these final decisions are prohibiteduntil all appropriate environmental review has been completed. See Minnesota Rules, Chapter 4410.3100.

Unit of Government	Type of Application	Status
Capitol Area Architectural and Planning Board	Zoning Permit and Design Review	To be applied for
City of Saint Paul	Demolition Permit & Inspections	To be applied for
Saint Paul Public Works – Right of Way division	City Right-of-Way Obstruction Permit	To be applied for
	City Excavation Permit	To be applied for
	City Transportation Permit (Oversize/Overweight Vehicle)	To be applied for

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Ramsey County	Pre-demolition Inspections	To be applied for
MPCA	Asbestos in demolition or renovations	To be applied for
	Notification of asbestos-related work	To be applied for
	Demolition/Renovation notification	To be applied for
	Stormwater Permit (Construction General Permit)	To be applied for
Minnesota Department of Health (MDH)	State Asbestos Abatement Notification	To be applied for
Minnesota State Historic Preservation Office (SHPO)	Suitable course of action	To be completed

10. Land Use

a) *Describe:*

i. *Existing land use of the site as well as areas adjacent to and near the site, including parksand open space, cemeteries, trails, prime or unique farmlands.*

The existing land use of the site is institutional, currently occupied by the Centennial Office Building, constructed in 1958 by architects Thorshov & Cerny. The building is approximately 316,816 square feet and is located on Cedar Street in Saint Paul, Minnesota.

Adjacent land uses include other civic and governmental buildings within the Capitol Area, such as the State Capitol Building, Veterans Service Building, and Judicial Center. Nearby open spaces include the Capitol Mall and landscaped areas that serve both aesthetic and public gathering functions. The State Capitol Building is the seat of government in Minnesota. The Capitol Mall, directly West of the Centennial Office Building, is known as Minnesota's 'front yard' – and the primary place for Minnesotans to gather, express themselves, and commemorate. Cedar Street, running along the westly edge of the Centennial Office Building site, is a primary view corridor to the State Capitol Building and connection to downtown.

There are no prime/unique farmlands in the immediate vicinity.

There are trails in the area that are not likely to be negatively impacted by this deconstruction project.

There are six historical cemeteries within 1 mile of the project location. See item 15 and Appendix C for further discussion on cemeteries.

ii. *Plans. Describe planned land use as identified in comprehensive plan (if available) and anyother applicable plan for land use, water, or resources management by a local, regional, state, or federal agency.*

The planned land use of the project site is State Institutions and Facilities, as identified in the Rules for Zoning and Design for the Minnesota Capitol Area and further supported by the 2040 Comprehensive Plan for the Minnesota State Capitol Area.

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This designation supports government buildings, public institutions, and associated open spaces. The conversion of the site into landscaped green space aligns with the plan's goals for sustainability, stormwater management, and enhancing public realm within the Capitol area.

iii. *Zoning, including special districts or overlays such as shoreland, floodplain, wild and scenicrivers, critical area, agricultural preserves, etc.*

The Rules for Zoning and Design for the Minnesota Capitol Area set out the specific rules and standards with which all development must comply in the Capitol Area. The land is currently zoned G-1 Government District. Open spaces, including but not limited to lawns, gardens, landscaped areas, are a permitted use in the G-1 Zoning District.

. No shoreland, floodplain, wild/scenic river, or agricultural preserve overlays apply to the site.

iv. *If any critical facilities (i.e., facilities necessary for public health and safety, those storing hazardous materials, or those with housing occupants who may be insufficiently mobile) are proposed in floodplain areas and other areas identified as at risk for localized flooding,describe the risk potential considering changing precipitation and event intensity.*

No critical facilities are proposed with the project.

The site will be converted into open green space with integrated stormwater infiltration features designed to manage runoff and reduce localized flooding risk. These features are engineered to accommodate changing precipitation patterns and event intensity.

b) *Discuss the project's compatibility with nearby land uses, zoning, and plans listed in Item 9a above, concentrating on implications for environmental effects.*

The following is an exert from page 17 of the 2040 Comprehensive Plan for the Minnesota State Capitol Area:

"The Centennial Building on the eastern Mall was built prior to establishment of the CAAPB. Although the Centennial Building meets height, massing and siting requirements, it does not meet expectations of aesthetics appropriate to the architectural integrity sought in government buildings on the Mall. While the design of the Centennial Building was consistent with standard building practices of the day, it prompted the legislature to evaluate the architectural standards for buildings in close proximity to the Capitol. It was in response to this building and others like it developed in the 1950s and 1960s that prompted the establishment of the CAAPB."

Open spaces, including but not limited to lawns, gardens, landscaped areas, are a permitted use in the G-1 Zoning District.

c) *Identify measures incorporated into the proposed project to mitigate any potential incompatibility as discussed in Item 10b above and any risk potential.*

There are no potential incompatibility or risk potential.

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11. Geology, soils and topography/land forms

a) *Geology - Describe the geology underlying the project area and identify and map any susceptiblegeologic features such as sinkholes, shallow limestone formations, unconfined/shallow aquifers, or karst conditions. Discuss any limitations of these features for the project and any effects the project could have on these features. Identify any project designs or mitigation measures to address effects to geologic features.*

According to the Geologic atlas[6] of Ramsey County, Minnesota, the surficial sediments of Ramsey County were deposited primarily by glacial ice and meltwater during the last glaciation (the Wisconsinan Stage) of the Pleistocene Epoch. Although the glacial landscape was somewhat altered by soil formation and erosion during the Holocene Epoch (the postglacial period of the last 10,000 years), the surficial geology is best understood by interpreting the glacial origin of the sediments beneath the soil horizon. The surficial sediments of Ramsey County can be completely attributed to the advance, wastage, and stagnation of two ice lobes—the Superior lobe and the Grantsburg sublobe of the Des Moines lobe—and the meltwater issuing from these ice lobes and the Des Moines lobe. The surficial geology of the project site is Stream sediment of Glacial River Warren (SW). This is sand and gravel with some fine sediment (silt and clay). It forms terraces of the Mississippi River. It is generally less than 20 ft thick, but as much as 40 ft over Paleozoic bedrock and 100200 ft thick in part of terrace downtown St. Paul.

According to the Geologic atlas of Ramsey County, Minnesota, Bedrock[7] in Ramsey County is largely concealed by a thick mantle of unconsolidated Quaternary (glacial and postglacial) deposits that are more than 500 feet thick along some of the deeper buried valleys. The only exceptions are bluffs and bedrock terraces of the Mississippi River, where the Quaternary deposits are thin and bedrock exposures are common. After deposition of the Prairie du Chien Group, the marine waters withdrew long enough from the area for dry land to form and for significant erosion to occur. The bedrock in the project area is St Peter Sandstone - Upper half to two-thirds: fine- to medium-grained, quartz sandstone; generally massive to thick bedded. Lower part: multicolored beds of mudstone, siltstone, and shale; interbeds of very coarse sandstone. Basal contact is erosional surface. Unit crops out in bluffs along Mississippi River. Formerly mined for glass sand for the Ford Motor Company plant in west St. Paul. Man-made caved in St. Peter, within the bluffs along Mississippi River in south St. Paul, formerly used for raising mushrooms. According to the MN DNR Karst Feature Inventory, there are no Karst features in the area.

b) *Soils and topography - Describe the soils on the site, giving NRCS (SCS) classifications and descriptions, including limitations of soils. Describe topography, any special site conditions relating to erosion potential, soil stability or other soils limitations, such as steep slopes, and highlypermeable soils. Provide estimated volume and acreage of soil excavation and/or grading. Discuss impacts from project activities (distinguish between construction and operational activities) related to soils and topography. Identify measures during and after project construction to address soil limitations including stabilization, soil corrections or other measures. Erosion/sedimentation control related to stormwater runoff should be addressed inresponse to Item 12.b.ii.*

- *NOTE: For silica sand projects, the EAW must include a hydrogeologic investigation assessing the potential groundwater and surface water effects and geologic conditions*

[6] https://conservancy.umn.edu/server/api/core/bitstreams/77a71669-3f76-4ec9-9a90-8aa11ecbc5b0/content
[7] https://conservancy.umn.edu/server/api/core/bitstreams/6a6647df-f859-4b22-8b9a-f8013c118d5f/content

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that could create an increased risk of potentially significant effects on groundwater and surface water. Descriptions of water resources and potential effects from the project in EAW Item 12 must be consistent with thegeology, soils and topography/landforms and potential effects described in EAW Item 11.

Map Unit Symbol	Map Unit Name	Hydrologic Group	Wind Erodibility Group (WEG)	Acres	% of Project Area
1039	Urban land	-	-	2.9	100%

According to the USDA NRCS Web Soil Survey, the project area is made up solely of Urban land. This rating does not have a hydrologic group or other soil features defined. The soil, however, is defined as non-hydric.

12. Water resources

a) *Describe surface water and groundwater features on or near the site in a.i. and a.ii. below.*

i. *Surface water - lakes, streams, wetlands, intermittent channels, and county/judicial ditches.Include any special designations such as public waters, shoreland classification and floodway/floodplain, trout stream/lake, wildlife lakes, migratory waterfowl feeding/resting lake, and outstanding resource value water. Include the presence of aquatic invasive speciesand the water quality impairments or special designations listed on the current MPCA 303d Impaired Waters List that are within 1 mile of the project. Include DNR Public Waters Inventory number(s), if any.*

The Centennial Office building is 0.75 miles away from the Mississippi River. This segment of the Mississippi River (07010206-505) is not listed as impaired. No work is proposed in the river itself or on its banks. If dewatering becomes necessary, a dewatering plan will be developed, and proper permits obtained, before any pumping takes place.

ii. *Groundwater – aquifers, springs, seeps. Include: 1) depth to groundwater; 2) if project is within a MDH wellhead protection area; 3) identification of any onsite and/or nearby wells,including unique numbers and well logs if available. If there are no wells known on site or nearby, explain the methodology used to determine this.*

Depth to groundwater in the project area ranges from 20-50 feet according to the Minnesota Natural Resource Atlas[8]. The project is not in a MDH wellhead protection area, and the nearest one is approximately 2.5 miles from the project site. According to the Minnesota Well Index[9], there are no wells on the project site. There are two wells near the

[8] https://mnatlas.org/gis-tool/
[9] https://mnwellindex.web.health.state.mn.us/

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project site. Well logs are attached. The project is not expected to impact or be impacted by the wells.

Unique Well ID	Well Name	Drilled Depth	Use	Well Status	Approx. Distance from site
234093	H-40	16 ft	environ. bore hole	Active	0.02 miles
234092	H-39	16 ft	environ. bore hole	Active	0.02 miles

b) *Describe effects from project activities on water resources and measures to minimize or mitigatethe effects in Item b.i. through Item b.iv. below.*

i. *Wastewater - For each of the following, describe the sources, quantities and composition of all sanitary, municipal/domestic and industrial wastewater produced or treated at the site.*

1) *If the wastewater discharge is to a publicly owned treatment facility, identify any pretreatment measures and the ability of the facility to handle the added water andwaste loadings, including any effects on, or required expansion of, municipal wastewater infrastructure.*

The proposed project involves the complete demolition of an existing building, including the removal of all foundations and footings. As a result of this demolition, there will be no ongoing generation of sanitary, municipal/domestic, or industrial wastewater at the site. Following demolition, the site will be backfilled, graded, and converted into an open landscaped green space. This transformation will eliminate any infrastructure or activities that would typically produce wastewater. The area will be planted with grass and vegetation. Since the site will no longer support any structures or operations that generate wastewater, there will be no discharge to a publicly owned treatment facility. Consequently, no pretreatment measures are required, and there will be no impact on municipal wastewater infrastructure or capacity.

2) *If the wastewater discharge is to a subsurface sewage treatment systems (SSTS), describe the system used, the design flow, and suitability of site conditions for sucha system. If septic systems are part of the project, describe the availability of septage disposal options within the region to handle the ongoing amounts generated as a result of the project. Consider the effects of current Minnesota climate trends and anticipated changes in rainfall frequency, intensity and amount with this discussion.*

Not Applicable.

3) *If the wastewater discharge is to surface water, identify the wastewater treatment methods and identify discharge points and proposed effluent*

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limitations to mitigateimpacts. Discuss any effects to surface or groundwater from wastewater discharges,taking into consideration how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects.

Not Applicable.

ii. *Stormwater - Describe changes in surface hydrology resulting from change of land cover. Describe the routes and receiving water bodies for runoff from the project site (major downstream water bodies as well as the immediate receiving waters). Discuss environmental effects from stormwater discharges on receiving waters post construction including how the project will affect runoff volume, discharge rate and change in pollutants.Consider the effects of current Minnesota climate trends and anticipated changes in rainfall frequency, intensity and amount with this discussion. For projects requiring NPDES/SDS Construction Stormwater permit coverage, state the total number of acres that will be disturbed by the project and describe the stormwater pollution prevention plan (SWPPP), including specific best management practices to address soil erosion and sedimentation during and after project construction. Discuss permanent stormwater management plans, including methods of achieving volume reduction to restore or maintain the natural hydrology of the site using green infrastructure practices or other stormwater management practices. Identify any receiving waters that have construction-related water impairments orare classified as special as defined in the Construction Stormwater permit. Describe additional requirements for special and/or impaired waters.*

The proposed project involves the demolition of an existing building and conversion of the site into open landscaped green space, which will greatly reduce impervious surfaces and improve stormwater infiltration. This change in land cover will decrease runoff volume and discharge rates, while also reducing pollutant loads entering nearby receiving waters. The site will be graded and vegetated, promoting natural hydrology and resilience to Minnesota's increasing rainfall intensity due to climate change. A Stormwater Pollution Prevention Plan (SWPPP) will be implemented during demolition and site restoration, including best management practices. Permanent stormwater management will rely on green infrastructure, such as vegetative cover, to maintain long-term water quality and hydrologic balance. No direct discharge to impaired or special waters is anticipated.

iii. *Water appropriation - Describe if the project proposes to appropriate surface or groundwater (including dewatering). Describe the source, quantity, duration, use and purpose of the water use and if a DNR water appropriation permit is required. Describe anywell abandonment. If connecting to an existing municipal water supply, identify the wells tobe used as a water source and any effects on, or required expansion of, municipal water infrastructure. Discuss environmental effects from water appropriation, including an assessment of the water resources available for appropriation. Discuss how the proposed water use is resilient in the event of changes in total precipitation, large precipitation events, drought, increased temperatures, variable surface water flows and elevations, and longer growing seasons. Identify any measures to avoid, minimize, or mitigate environmental effects from the water appropriation. Describe contingency plans should theappropriation volume increase beyond infrastructure capacity or water supply for the project diminish in quantity or quality, such as reuse of water,*

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connections with another water source, or emergency connections.

The project will not use or divert any surface or groundwater, including dewatering. Water needed for dust control and ACM mitigation will be sourced from the municipal drinking water system. No DNR water appropriation permit or connections to municipal infrastructure are required. There are no wells on-site, so well abandonment is unnecessary. After landscaping, the site will have no ongoing water use. Therefore, no environmental impacts from water appropriation are expected, and the project is resilient to climate changes. Contingency plans are not needed since there is no reliance on water supply infrastructure.

iv. *Surface Waters*

a) *Wetlands - Describe any anticipated physical effects or alterations to wetland features such as draining, filling, permanent inundation, dredging and vegetative removal. Discuss direct and indirect environmental effects from physical modification of wetlands, including the anticipated effects that any proposed wetland alterations may have to the host watershed, taking into consideration how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects. Identify measures to avoid (e.g., available alternatives that were considered), minimize, or mitigate environmental effects to wetlands. Discuss whether any required compensatory wetland mitigation for unavoidable wetland impacts will occur in the same minor or major watershed and identify those probable locations.*

No wetlands are located in or near the project site. There will be no direct or indirect environmental impacts to wetlands.

b) *Other surface waters- Describe any anticipated physical effects or alterations to surface water features (lakes, streams, ponds, intermittent channels, county/judicialditches) such as draining, filling, permanent inundation, dredging, diking, stream diversion, impoundment, aquatic plant removal and riparian alteration. Discuss direct and indirect environmental effects from physical modification of water features, taking into consideration how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects. Identify measures to avoid, minimize, or mitigate environmental effects to surface water features, including in-water Best Management Practices that are proposed to avoid or minimize turbidity/sedimentation while physically altering thewater features. Discuss how the project will change the number or type of watercraft on any water body, including current and projected watercraft usage.*

The project site is located approximately 0.75 miles from the Mississippi River, and no work is proposed within the river, its banks, or any other surface water features such as lakes, streams, ponds, or ditches. Therefore, no physical alterations—such as draining, filling, dredging, or aquatic plant removal—are anticipated. If dewatering becomes necessary during demolition, a detailed dewatering plan will be developed, and all required permits will be obtained prior to any pumping activities to ensure compliance and environmental

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protection. Given the absence of direct interaction with surface waters, no changes to watercraft usage or impacts from climate-related changes in precipitation or water levels are expected. The project will avoid any direct or indirect environmental effects on surface water features, and no in-water best management practices are required.

13. Contamination/Hazardous Materials/Wastes:

a) *Pre-project site conditions - Describe existing contamination or potential environmental hazards on or in close proximity to the project site such as soil or ground water contamination, abandoned dumps, closed landfills, existing or abandoned storage tanks, and hazardous liquid or gas pipelines. Discuss any potential environmental effects from pre-project site conditions that would be caused or exacerbated by project construction and operation. Identify measures to avoid, minimize or mitigate adverse effects from existing contamination or potential environmental hazards. Include development of a Contingency Plan or Response Action Plan.*

According to MPCA's What's In My Neighborhood database, there are 234 active permitted sites within 0.5 miles of the project location. Only one site is within the project footprint. This is the aboveground tanks located at the Centennial Office Building. This tank stores diesel fuel. The removal of the aboveground diesel fuel tank located at the Centennial Office Building will occur during abatement and must comply with the Minnesota Pollution Control Agency (MPCA) standards for aboveground storage tanks (ASTs). This includes notifying the MPCA prior to removal, thoroughly cleaning and purging the tank of all contents and vapors, and assessing the site for any potential contamination. If contamination is found, appropriate remediation must follow. Any spills over five gallons must be reported to the Minnesota Duty Officer. The tank and associated components must be dismantled in accordance with Minnesota Administrative Rules Chapter 7151 and fire code requirements, and all removal activities must be documented. There are two active leak sites within 0.5 miles of the project site. The Downtown BP site (LS0022161) is 0.2 miles away and the MN Dept of Admin Ford Building (LS0022431) is 0.25 miles away. These leak sites are not expected to impact or be impacted by the project.

A comprehensive asbestos and regulated materials inspection was performed (Appendix D). This survey identified numerous hazardous materials in the building that must be removed and properly disposed of before demolition, in accordance with Minnesota Rules 7035.0805 (which require removal of all hazardous components prior to demolition).

Key findings of the inspection include:

Asbestos-Containing Materials (ACMs): Significant ACMs were found throughout the building. These include thermal system insulation on piping (an estimated total of ~1,884 linear feet of pipe insulation and ~534 fitting insulation pieces across various floors), about 500 ft^2 of asbestos duct insulation on a penthouse air handling unit, approximately 250 ft^2 of floor tile mastic in a basement room (tile itself non-asbestos), and several asbestos surfacing adhesives and sealants. Notably, about 12,000 ft^2 of adhesive on fiberglass panels in an air shaft is asbestos-containing, as are smaller areas of wall adhesive (≈60 ft^2) and ceiling tile adhesive (≈240 ft^2). Black tar used on some insulated ducts (~2,000 ft^2) contains asbestos, as do certain window glazing and caulking materials on a few windows and walls (limited linear feet). All identified ACMs will be abated by a licensed asbestos contractor prior to demolition.

Other Regulated Materials: The building contains numerous fluorescent light tubes

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(approximately 6,300 4-foot tubes and 676 compact fluorescents) and electrical equipment containing mercury or PCBs (such as 3,330 fluorescent light ballasts which may contain PCBs). Exit signs, smoke detectors, and other electronics (hundreds of units) are present and must be removed and recycled. There are also five elevators and associated machinery (to be decommissioned), a backup generator and fuel tank, and various pumps and mechanical equipment containing oils or refrigerants. Major appliances (refrigerators in break rooms, water coolers, etc.) and thermostats (mercury switches) will also be collected. All these regulated items are documented in the Regulated Materials Summary (Appendix B of the report) and will be removed for proper disposal or recycling (e.g., fluorescent lamps and mercury devices to hazardous waste facilities, metal equipment to recycling, etc.) before building teardown.

Lead and PCB Paints/Coatings: The building's painted surfaces (interior and exterior) were not highlighted as lead-containing in the summary, but given the age (1958), lead-based paint is likely present on some surfaces. Painted concrete or steel will be managed with appropriate dust control during demolition. Any suspect PCB caulks or specialty coatings encountered will be tested and disposed per regulations.

Abatement Process: A licensed abatement contractor will perform removal of all ACMs within regulated containment areas. This involves setting up critical barriers and negative air machines to prevent fiber release. The removal of fluorescent lamps, ballasts, mercury thermostats, and other regulated wastes will happen in parallel, typically by the abatement team or specialized crews. These materials will be sorted and sent to appropriate recycling or disposal facilities.

After abatement, the contractor will obtain a Ramsey County pre-demolition inspection approval. Ramsey County requires an on-site inspection to verify that all hazardous materials and appliances have been removed prior to structural demo. The contractor will provide documentation (asbestos abatement reports, waste manifests for regulated materials, etc.) to the county inspector as proof. Only after the county issues a sign-off can the actual building demolition proceed.

b) *Project related generation/storage of solid wastes - Describe solid wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from solid waste handling, storage and disposal. Identify measures to avoid, minimize or mitigate adverse effects from the generation/storage of solid waste including source reduction and recycling.*

During demolition of the Centennial Office Building, a large volume of construction and demolition (C&D) waste will be generated. The State of Minnesota intends to divert at least 75% of nonhazardous construction and demolition waste from landfills through source reduction and recycling efforts. On-site crushing of the material will not be allowed. The material will be trucked to a site provided by the Contractor, processed, and returned to the site and reused as compacted fill. Metals such as steel, aluminum, and copper will be separated and sent to appropriate recyclers. Masonry materials may be reused as aggregate or sent to road-base recyclers. Salvageable architectural elements, such as granite cladding, will be evaluated for reuse or donation. Remaining mixed debris—estimated at around 800 tons—will consist of non-recyclable materials like damaged drywall, insulation, and carpeting, and will be disposed of at a local C&D landfill. These efforts minimize environmental impacts by reducing landfill use, conserving resources, and promoting material reuse.

c) *Project related use/storage of hazardous materials - Describe chemicals/hazardous*

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materials used/stored during construction and/or operation of the project including method of storage. Indicate the number, location and size of any new above or below ground tanks to store petroleum or other materials. Indicate the number, location, size and age of existing tanks on the property that the project will use. Discuss potential environmental effects from accidental spill or release of hazardous materials. Identify measures to avoid, minimize or mitigate adverseeffects from the use/storage of chemicals/hazardous materials including source reduction and recycling. Include development of a spill prevention plan.

Hazardous materials will be present primarily during the abatement phase, scheduled for 2028. A licensed abatement contractor will manage the removal of asbestos-containing materials (ACMs), mercury thermostats, fluorescent lamps, and PCB-containing ballasts. These materials will be managed within regulated containment areas using negative air machines and critical barriers to prevent environmental release. All hazardous materials will be sorted and transported to specialized recycling or disposal facilities, such as TSCA-approved sites for PCB ballasts and mercury recyclers. One existing aboveground diesel fuel tank, located on-site, will be removed in accordance with MPCA regulations. No new tanks will be installed. To mitigate risks of accidental spills or releases, a spill prevention plan will be implemented, and all hazardous materials will be managed following state and federal safety protocols.

d) *Project related generation/storage of hazardous wastes - Describe hazardous wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from hazardous waste handling, storage, anddisposal. Identify measures to avoid, minimize or mitigate adverse effects from the generation/storage of hazardous waste including source reduction and recycling.*

Hazardous waste generated during the project will primarily result from the abatement and demolition phases. This includes asbestos waste, PCB-containing ballasts, mercury-containing devices, and other regulated materials. These wastes will be carefully removed, stored in compliance with hazardous waste regulations, and transported to licensed facilities for disposal or recycling. The project will not store hazardous waste on-site beyond what is necessary for short-term staging during removal. Environmental risks associated with hazardous waste handling will be minimized through containment procedures, air monitoring, and adherence to MPCA and EPA disposal standards. Source reduction is achieved by identifying and separating hazardous components early in the process, ensuring safe and responsible waste management throughout the project.

14. Fish, wildlife, plant communities, and sensitive ecological resources (rare features)

a) *Describe fish and wildlife resources as well as habitats and vegetation on or in near the site.*

The entire project area includes approximately 2.96 acres. The area is the existing Centennial Office Building. The site is on the government campus. According to the MN DNR Conservation Planner, there are no MBS Sites of Biodiversity Significance, DNR Native Plant Communities, Calcareous Fens, DNR Old Growth Stands, MN Prairie Conservation Plans, Lakes of Biological Significance, or USFWS Habitat Conservation Plans in the study area. There is an identified Rusty Patched Bumble Bee High Potential Zone within the study area as well as the Mississippi River Twin Cities Important Bird Area.

b) *Describe rare features such as state-listed (endangered, threatened or special concern)*

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species, native plant communities, Minnesota Biological Survey Sites of Biodiversity Significance, andother sensitive ecological resources on or within close proximity to the site. Provide the license agreement number (LA-_) and/or correspondence number (MCE_) from which the data were obtained and attach the Natural Heritage Review letter from the DNR. Indicate if any additional habitat or species survey work has been conducted within the site and describe the results.

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Automated reviews were completed on the MN DNR's Minnesota Conservation Explorer portal and the USFWS Information for Planning and Consultation (IPaC). Copies of the documents from those reviews are attached in appendix B.

The MNDNR Natural Heritage Information System letter contained recommendations to protect the northern long-eared bat and the rusty patched bumble bee. The DNR recommends that tree and building removal not be started from June 1 through August 15 and reseeding disturbed soils with native species of grasses and forbs using BWSR seed mixes or MnDOT seed mixes.

The USFWS online Minnesota- Wisconsin Endangered Species Determination Key was reviewed for this project. A finding of no effect on the Higgins eye (pearly mussel), Monarch butterfly, Salamander mussel, and Whooping crane was reached by the determination key. A finding of no effect on the Rusty patched bumble bee (RPBB) was reached by the RPBB determination key. A finding of no effect on the northern long-eared bat and the tricolored bat was reached by the Northern long-eared bat and tricolored bat range-wide determination key.

The IPaC Species list identified that bald and golden eagles are likely found in the project region. The Minnesota Breeding Bird Atlas does not show any confirmed nests in block T29R22c that overlaps the project area. The potential for impact to a bald or golden eagle is highly improbable as the project area does not have trees of the size and type preferred by bald and golden eagles. There are nearby roadways with traffic and human activity at the project site, both of which bald and golden eagles are known to avoid. Several migratory birds were identified, but none are likely to be impacted by the project as proposed as no major trees are within the project area.

c) *Discuss how the identified fish, wildlife, plant communities, rare features and ecosystems may be affected by the project including how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects. Include a discussion on introduction and spread of invasive species from the project construction and operation. Separately discuss effects to known threatened and endangered species*.

The project site does not contain any Minnesota Biological Survey (MBS) Sites of Biodiversity Significance, native plant communities, calcareous fens, old growth stands, or other sensitive ecological features. However, it is located within a rusty patched bumble bee high potential zone and the Mississippi River Twin Cities important bird area. While the demolition and redevelopment of the Centennial Office Building will temporarily disturb the site, the conversion of the area into open green space with native vegetation and a stormwater infiltration area is expected to provide long-term ecological benefits. The project will incorporate stormwater management and erosion control best management practices (BMPs) to reduce runoff and sedimentation, which are especially important given Minnesota's climate trends of warmer winters, increased precipitation, and more frequent

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extreme weather events. These climate shifts may influence vegetation establishment and wildlife behavior, but the use of resilient landscaping and soil preparation techniques will help mitigate those effects. To prevent the introduction or spread of invasive species, construction crews will follow BMPs such as equipment cleaning and use of certified weed-free materials. No direct impacts to known threatened or endangered species are anticipated, but the project team will remain in coordination with relevant agencies to ensure compliance with applicable conservation guidelines.

d) *Identify measures that will be taken to avoid, minimize, or mitigate the adverse effects to fish,wildlife, plant communities, ecosystems, and sensitive ecological resources.*

To avoid, minimize, or mitigate potential adverse effects to fish, wildlife, plant communities, ecosystems, and sensitive ecological resources, the project will implement a variety of best management practices and environmentally responsible strategies. These include implementing the reclamation plan, erosion and sediment control measures during construction, and incorporating stormwater management features to protect water quality. Construction activities will be scheduled to avoid sensitive periods for local wildlife as identified by the MNDNR NHIS Letter, and any necessary wildlife protection measures will be coordinated with appropriate regulatory agencies. Additionally, the project will comply with all applicable environmental permits to ensure adherence to mitigation commitments and long-term ecological sustainability.

15. Historic Properties

Describe any historic structures, archeological sites, and/or traditional cultural properties on or in close proximity to the site. Include: 1) historic designations, 2) known artifact areas, and 3) architectural features. Attach letter received from the State Historic Preservation Office (SHPO). Discuss any anticipated effects to historic properties during project construction and operation. Identify measures that will be taken to avoid, minimize, or mitigate adverse effects to historic properties.

The project area is near the Minnesota State Capitol and the Judicial Building, both of which are individually listed in the National Register of Historic Places. It is also within the National Register-eligible Minnesota State Capitol Historic and Archaeological District. The building is a contributing element of the Minnesota State Capitol Mall Historic and Archaeological District as part of the mid-twentieth century planned development of the mall through urban renewal, and as one of the government buildings placed to border the mall and frame views of the State Capitol. Demolition of this building would constitute an adverse effect on the historic district, as it would remove a contributing element and alter the designed landscape.

<u>Literature Review</u>

Desktop cultural resources studies were conducted to identify historic structures, archaeological sites, and/or traditional cultural properties within or near the proposed project, which was conducted by the Bolton & Menk, Inc. cultural resources team in October 2025. Both the archaeological report (redacted to protect sensitive resource information), and the architecture/history report can be found in Appendix C. The objectives of these desktop studies were to: 1) summarize data/information of previously recorded and inventoried cultural resources and cultural resource surveys within/near the Study Area, and 2) determine if further cultural resources investigation is recommended.

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Twenty-three previously recorded archaeological sites and archaeological alpha sites were identified within one mile of the proposed project area. Of these, six are considered eligible or are listed in the National Register of Historic Places (NRHP). A review of the OSA Portal Historical Cemeteries Study Layer, created on behalf of the Minnesota Cemetery Project (Vermeer and Terrell 2011) shows six historic cemeteries within one mile of the Study Area.

Additionally, five previously inventoried architecture/historic properties were identified, all of which are listed in/eligible for listing in the NRHP, within 0.10 miles of the project area. These properties include the Centennial Office Building itself (RA-SPC-06313) which is a contributing resource to the eligible Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132). Forty-five previous cultural resources surveys have been conducted within approximately 1 mile of the project area. An ongoing Capitol Mall cultural resources study includes all of the project area and will be discussed within the reports.

Table 7: Previously Inventoried Architecture-History Resources Within 0.10 Miles of Study Area

SHPO Inventory Number	Property Name	Location	Distance from Survey Area	NRHP Eligibility*
RA-SPC-06313	**Centennial Office Building / Minnesota Centennial Building**	**658 Cedar St.**	**Subject Property**	**Certified Eligible Finding/Contributing to RA-SPC-11132**
RA-SPC-00557	Minnesota Judicial Center / Minnesota Historical Society	25 Rev. Dr. Martin Luther King Jr. Blvd. (formerly 25 Constitution Ave.)	0.04 miles (232-feet)	Individually Listed/ Contributing to RA-SPC-11132
RA-SPC-00229	Minnesota State Capitol Building	75 Rev. Dr. Martin Luther King Jr. Blvd. (formerly Aurora Ave. between Cedar & Park St.)	0.10 miles (529-feet)	Individually Listed/ Contributing to RA-SPC-11132
RA-SPC-05619	Minnesota State Capitol Grounds	13 Rev Dr Martin Luther King Jr Blvd	Within Study Area	Contributing to RA-SPC-11132
RA-SPC-11132	Minnesota State Capitol Mall Historic District	Bounded by University Ave. to the N, Robert St. to the E, 12th St. to the S, Rice St. to the W	Within Study Area	Eligible

*NRHP status provided by SHPO from their records, October 2025.

A review of historic land use within the Study Area reveals that prior to the construction of the Centennial Building, the space was historically residential buildings and yards. An archaeological probability model developed for the State Capitol area identifies the immediate vicinity of the Centennial Building as having low archaeological potential, but immediately across Cedar Street, the Capitol Mall itself has high archaeological potential. Recent geophysical studies conducted nearby revealed potential for intact historic and precontact strata buried underneath fill in an area west of the Study Area. Archaeological excavation at the location documented a new property, Bazille's Addition (21RA0093), which was then determined eligible for listing in the National Register under Criterion D (Nienow et. al. 2025) as a contributing element of the Minnesota State Capitol Mall Historic and Archaeological District. Other nearby archaeological sites also demonstrate potential for exposed intact soils within the Study Area, which may have archaeological significance.

The proposed project includes the demolition of the Centennial Office Building and replacing it with a temporary green space. The Centennial Office Building is a contributing element to the National Register eligible Capitol Mall Historic and Archaeological District (RA-SPC-11132). As the building is contributing to the Minnesota State Capitol Mall Historic and Archaeological District, its removal would be an adverse effect to the eligible historic

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district as it would remove a character-defining feature of the Capitol Mall, change the framing of the Capitol Building and the overall viewshed of the district, and potentially disrupt the planned landscape designed by Arthur Nichols; all important elements in conveying historical significance of the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132).

As the Centennial Office Building is contributing to the Capitol Mall Historic and Archaeological District and given the potential to find intact archaeological deposits exposed during demolition, Bolton & Menk recommends demolition of the Centennial Office Building will have an adverse effect to the eligible Capitol Mall Historic and Archaeological District**.** It is recommended that consultation with the State Historic Preservation Office (SHPO) take place in order to determine appropriate treatments and to seek ways to avoid and mitigate any adverse effects. Agreement on a suitable course of action is recommended before the project proceeds.

Per Minnesota Statute 138.665 Sub. 2:

The state, state departments, agencies, and political subdivisions… have a responsibility to protect the physical features and historic character of properties… Before carrying out any undertaking that will affect designated or listed properties, or funding or licensing an undertaking by other parties, the state department or agency shall consult with the State Historic Preservation Office pursuant to the State Historic Preservation Office's established procedures to determine appropriate treatments and to seek ways to avoid and mitigate any adverse effects.

Avoidance

The Centennial Office Building will be 69 years old in 2027. It has served the State well since it opened in 1958, but to continue to use the building would require a substantial investment in a comprehensive replacement of outdated building systems, which are beyond the end of their useful life. Maintenance and repair requirements are steadily increasing, its energy and carbon footprints are significantly larger than modern facilities, and its functionality is sub-optimal for today's workforce. The cost to renovate the Centennial Office Building is estimated to be $175 million - $250 million, depending on timeline, inflation, and other factors. With the State's limited bonding capacity and significant asset preservation needs across the State, other state facilities are a higher priority for investment of limited State resources. The Centennial Office Building will be at least 70% vacant in the 2028. Maintaining a vacant building would divert state resources from higher priorities. In addition, the cost to replace outdated buildings systems will increase over time.

Mitigation

This mitigation or treatment plan may include, but is not limited to, additional historical documentation of the building through the completion of a Level II Minnesota Historic Property Record (MHPR) according to the *Minnesota Historic Property Record Guidelines* (Updated June 2009); additional archaeological study and/or monitoring of ground disturbing activities during building demolition; interpretation of the site following demolition; and designing the new space to be historically relevant and complimentary to the Capital Mall Historic and Archaeological District. Exact mitigation details will be established in consultation with SHPO prior to the start of demolition.

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16. Visual

Describe any scenic views or vistas on or near the project site. Describe any project related visual effects such as vapor plumes or glare from intense lights. Discuss the potential visual effects from the project. Identify any measures to avoid, minimize, or mitigate visual effects.

The project area is near the Minnesota State Capitol and the Judicial Building, both of which are individually listed in the National Register of Historic Places. It is also within the National Register-eligible Minnesota State Capitol Historic and Archaeological District. The building is a contributing element of the Minnesota State Capitol Mall Historic and Archaeological District as part of the mid-twentieth century planned development of the mall through urban renewal, and as one of the government buildings placed to border the mall and frame views of the State Capitol. The project will result in temporary visual impacts to the surrounding Capitol Campus area. During demolition, the presence of heavy equipment, fencing, debris piles, and construction staging areas may disrupt the visual continuity of the site and detract from nearby scenic views, including those of the Minnesota State Capitol and surrounding historic buildings. However, these construction visual effects are expected to be short-term. The removal of the multi-story building and creation of temporary open space will alter the view and framing of the State Capitol Building. Best management practices will be implemented for dust control to decrease the visual effects during demolition. The inclusion of a stormwater infiltration area with native plantings will further enhance the site's visual appeal and ecological function. SHPO will be consulted prior to demolition, including regarding mitigation. Mitigation may include, but is not limited to, additional historical documentation of the building through the completion of a Level II Minnesota Historic Property Record (MHPR) according to the Minnesota Historic Property Record Guidelines (Updated June 2009); interpretation of the site following demolition; and designing the future redevelopment of the site to be historically relevant and complimentary to the Capital Mall Historic and Archaeological District.

17. Air

a) *Stationary source emissions - Describe the type, sources, quantities and compositions of any emissions from stationary sources such as boilers or exhaust stacks. Include any hazardous air pollutants, criteria pollutants. Discuss effects to air quality including any sensitive receptors, human health or applicable regulatory criteria. Include a discussion of any methods used assess the project's effect on air quality and the results of that assessment. Identify pollution control equipment and other measures that will be taken to avoid, minimize, or mitigate adverse effects from stationary source emissions.*

According to the EPA's NEPAssist tool[10], the project is located in a maintenance area for CO.

There are no stationary sources of emissions associated with this project. The proposed deconstruction does not include any boilers, exhaust stacks, or other equipment that would emit hazardous air pollutants or criteria pollutants. As such, no adverse effects to air quality, human health, or sensitive receptors are anticipated, and no air quality assessment or pollution control equipment is required. Furthermore, replacing the existing building with open landscaped green space is expected to have a net positive effect on local air quality. Vegetation can help filter airborne pollutants, reduce urban heat island effects, and improve overall air circulation. The absence of mechanical systems and combustion sources will eliminate localized emissions, contributing to a cleaner and healthier environment for

[10] https://nepassisttool.epa.gov/nepassist/nepamap.aspx

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nearby residents and workers.

b) *Vehicle emissions - Describe the effect of the project's traffic generation on air emissions. Discuss the project's vehicle-related emissions effect on air quality. Identify measures (e.g., traffic operational improvements, diesel idling minimization plan) that will be taken to minimize or mitigate vehicle-related emissions.*

Vehicle emissions associated with the project will primarily result from deconstruction vehicles. Please refer to Section 18 for a detailed discussion of vehicle emissions. Best management practices will be implemented to further reduce potential impacts. These include minimizing vehicle idling during deconstruction, maintaining equipment in good working condition to reduce exhaust emissions, and encouraging carpooling for workers when feasible. These measures will help minimize air quality impacts and support environmentally responsible site operations.

c) *Dust and odors - Describe sources, characteristics, duration, quantities, and intensity of dust and odors generated during project construction and operation. (Fugitive dust may be discussed under item 17a). Discuss the effect of dust and odors in the vicinity of the project including nearby sensitive receptors and quality of life. Identify measures that will be taken to minimize or mitigate the effects of dust and odors.*

The project construction will generate odors from vehicle exhaust and dust during deconstruction. These will be mitigated by requiring that construction vehicles be in good working order, limiting work hours, and use of dust control such as water. The construction-related odor and dust impacts are temporary and will cease once the construction is complete. After construction ceases the site odors and dust will return to the existing condition.

18. Greenhouse Gas (GHG) Emissions/Carbon Footprint

a) *GHG Quantification: For all proposed projects, provide quantification and discussion of project GHG emissions. Include additional rows in the tables as necessary to provide project-specific emission sources. Describe the methods used to quantify emissions. If calculation methods are not readily available to quantify GHG emissions for a source, describe the process used to cometo that conclusion and any GHG emission sources not included in the total calculation.*

The GHG emissions for the Project are calculated using the Minnesota Environmental Quality Board's (EQB) Climate Calculator (July 2025). The methodologies for developing a carbon footprint are described in Minnesota Environmental Quality Board's (EQB's) Revised EAW Guidance (June 2024).

Global climate change results from the total accumulation of GHGs in the Earth's atmosphere, as well as other human-caused and natural factors. The GHG composition in the Earth's atmosphere is changing and causing the planet's climate to change. The proposed project's incremental contribution to global GHGs cannot be translated into effects on climate change globally or regionally.

In general, regional impacts from climate change may include the following effects: increased mean annual air temperature (summer and winter warming); increased surface water temperatures; later onset of winter and earlier onset of spring; precipitation may fall in fewer, but more intense, storms; species adapted to cold climates may shift out of the Great Lakes basin into Canada; and aspen and birch forests may be replaced by hardwood

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forests of oak and hickory. Moderate climate change may increase agricultural yields and food production, with some regional and annual variability.

The Climate Calculator - The calculator was constructed using a lifecycle analysis (LCA) approach, which quantifies environmental impacts associated with all stages of a product or project lifespan.[11] For the purposes of this calculator, the GHG emissions impact of project construction and project operation are evaluated.[12] The calculator also evaluates the potential for direct and indirect impacts, where direct emissions are emissions that are caused by project activities that occur on-site, and indirect emissions are emissions that occur upstream and downstream of the project (e.g., emissions associated with fuel production and other material inputs).

Emission sources included in the Minnesota Climate Calculator include material inputs, transportation of material inputs, employee commuting, construction equipment, land use change, construction waste, building energy consumption, coal production, natural gas and oil products, industrial processes, land use change, HFC leakage, on-road vehicles, treatment of waste on-site, treatment of wastewater on-site, treatment of waste off-site, enteric fermentation, and manure management.

The project has a lifetime of 30 years and includes only the construction (deconstruction in this case) phase in its calculations. The construction phase accounts for material inputs, transportation of those materials, employee commuting, use of construction equipment, land use changes associated with construction, and construction-related waste.

Construction Materials - Material emissions included in the climate calculator include aluminum, asphalt, brick, concrete, glass, insulation (residential), insulation (commercial), steel, and wood products. Inputs for these material quantities can be found in the attached Minnesota Climate Calculator: Project Summary Report. Emission factors for each material type are compiled from the Embodied Carbon Calculator (EC3) Tool.[13] Data from the 2017 Census Commodity Flow Survey (CFS) on domestic shipments of goods to Minnesota by North American Industry Classification System (NAICS) code category is used to develop assumptions on the average distance traveled by material type.[14]

Construction materials are not included in this calculation as it is a deconstruction of the building.

Construction Vehicles - Emissions result when employees commute to and from the project site during project construction.[15] This includes emissions from driving personal vehicles and taking public transit. The calculator quantifies emissions from employee commuting based on estimates of the total distance traveled, the commuter mode, and mode-specific emission factors. The data derives from the number of employees that will commute to the construction site during each phase of construction. The construction phases include demolition, site preparation, grading, building construction, architectural coating, and

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11 Although the calculator follows an LCA approach, it does not meet the ISO standard for an LCA. Additionally, the results of the calculator are not comparable to a standard GHG inventory, which typically quantifies emissions that occur during a single calendar or fiscal year.

12 Emissions associated with project decommissioning may also be considered as part of an LCA but are not included in the calculator at this time.

13 Building Transparency. "Embodied Carbon in Construction Calculator (EC3) Tool," 2025. https://www.buildingtransparency.org.

14 United States Census Bureau. "2017 Commodity Flow Survey Datasets," 2017. https://www.census.gov/data/datasets/2017/econ/cfs/historical-datasets.html.

15 Emissions may also result from employee commuting during project operation; however, these emissions are not currently included within the scope of the climate calculator.

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paving. Default assumptions regarding the number of construction days by construction phase are available in the calculator. The default number of construction days by construction phase are based on values derived from the California Emissions Estimator Model (CalEEMod).[16]

The average commuting distance was acquired from the U.S. Environmental Protection Agency (EPA) Local GHG Inventory Tool, which assumes an average one-way commuting distance of 13.2 miles or a round-trip distance of 26.4 miles.[17] The commuting mode assumptions were derived from EPA's Local GHG Inventory Tool.[18] More details on fuel types and energy consumption can be found in the Climate Calculator Report.[19]

Emissions result from the fuel and/or electricity used by construction equipment (e.g., dozers, excavators, loaders) during project construction. The calculator quantifies emissions from construction equipment based on estimates of total construction hours by equipment type, energy consumption per hour, and equipment-specific emission factors.

The default number of construction days by construction phase are based on values derived from CalEEMod.[20] Data on the number of construction equipment by type used per day and the number of hours each equipment type is used per day by construction phase are obtained from CalEEMod.[21] These data vary by project acreage. More details on fuel types and energy consumption can be found in the Climate Calculator Report.[22]

The construction phase of the project includes site preparation, grading, building construction, and paving and landscaping. Default durations for these stages were not used. Instead, demolition is estimated to take 40 days, site preparation is estimated to take 50 days, grading is estimated to take 30 days, building construction is estimated to take 20 days, and paving and landscaping is estimated to take 20 days. Demolition is estimated to have 8 employees commuting to the site, site preparation is estimated to have 10 employees, grading is estimated to have 6 employees, building construction is estimated to have employees, and paving and landscaping are estimated to have 5 employees commuting to the site. While custom durations were applied, default values provided by the calculator were used for employee commuting and construction equipment to complete the calculations.

Land Use Change - This emissions source (or sink) includes the net carbon change from the transition of one land use type to another during project construction. This may include clearing land for construction or otherwise converting it to another land type. To account for lifecycle emissions, the net carbon change calculations assume full realization of the land transition. The calculator quantifies net carbon change from land use change based on land area pre- and post-construction, the number of trees removed and/or added during construction (outside of forests), and the carbon stock of each land type and tree. More

[16] California Air Pollution Control Officers Association. "CalEEMod," 2022. https://www.caleemod.com/.
[17] EPA. "Local GHG Inventory Tool," 2025. https://www.epa.gov/statelocalenergy/local-greenhouse-gas-inventory-tool.
[18] EPA. "Local GHG Inventory Tool," 2025. https://www.epa.gov/statelocalenergy/local-greenhouse-gas-inventory-tool.
[19] https://engage.eqb.state.mn.us/26208/widgets/88814/documents/68909
[20] California Air Pollution Control Officers Association. "CalEEMod," 2022. https://www.caleemod.com/.
[21] The default data in CalEEMod is derived using results from a construction survey conducted by the South Coast Air Quality Management District. The survey collected data from a set of construction projects in Southern California ranging from 0-30 acres in size. Survey results were extrapolated out to projects over 30 acres based on data trends. See Appendix D1 of the CalEEMod user guide for more information on the methodology and survey data: California Air Pollution Control Officers Association. "User Guide for CalEEMod Version 2022.1," 2022. https://www.caleemod.com/user-guide.
[22] https://engage.eqb.state.mn.us/26208/widgets/88814/documents/68909

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details on land conversion can be found in the Climate Calculator Report.[23]

The current land use cover type is impervious surface; this will be converted to an open lawn. Surrounding sidewalks within the expanded project footprint will remain. At this stage of the concept plan, at least one tree will be added in the proposed infiltration area.

Construction Waste - Emissions result from the transportation and treatment of waste that is generated during construction and treated at a facility off-site. The calculator assumes that all waste generated during construction is disposed of at a landfill. The calculator quantifies emissions from construction waste based on the estimated quantity of waste by material type and material-specific emission factors. Emission factors associated with the landfilling of construction materials were obtained from EPA's GHG Emissions Factors Hub.[24] The emissions factors, which are based on factors from EPA's Waste Reduction Model (WARM), include emissions from the decomposition of waste as well as the transportation of waste to the waste treatment facility.[25]

It is expected that 25% of waste from the deconstruction of the Centennial Office Building will be recycled or reused as fill on site. Total deconstruction waste was estimated, and 75% of that total was used in the calculation.

Table 8: Emission Scope Categories

Category	Scope	Project Phase	Type of Emission
Direct Emissions	Scope 1 - Emissions	Operations	Combustion (Stationary, Area, Mobile Sources)
	Scope 1 - Emissions	Operations	Non-Combustion Process
	Scope 1 - Emissions	Construction	Combustion (Mobile Sources)
	Scope 1 - Emissions	Construction	Land-Use
Indirect Emissions	Scope 2	Operations	Off-site Electricity/Steam Production (Market-Based and Location-Based)
	Scope 3	Operations	Off-site Waste Management
Atmospheric Removal of GHGs	Scope 1 (Sinks)	Construction/Operations	Land -Use (CO2 removals to terrestrial storage)

[23] https://engage.eqb.state.mn.us/26208/widgets/88814/documents/68909
[24] EPA. "GHG Emission Factor Hub," 2025. https://www.epa.gov/climateleadership/ghg-emission-factors-hub.
[25] The emission factors do not include avoided emissions associated with energy recovery or landfill carbon sequestration.

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Table 9: GHG Emissions (Cumulative)						
Scope	**Emission Type**	**Emission Sub-type**	**Existing Conditions (MTCO2e)**	**Project-related Conditions (MTCO2e)**	**Total Emissions (MTCO2e)**	**Calculation method(s)**
Scope 3	Construction	Construction Waste	0	378.90	378.90	MN Climate Calculator
Scope 1	Combustion	Construction Mobile Equipment	0	336.33	336.33	MN Climate Calculator
Scope 1 (sinks)	Land Use (Conversion)	Carbon Sink	0	0.09	0.09	MN Climate Calculator
Scope 1	Motor Vehicle Emissions	Employee Commuting	0	11.25	11.25	MN Climate Calculator.
TOTAL*					**726.38**	**MTCO2e**

b) *GHG Assessment*

i. *Describe any mitigation considered to reduce the project's GHG emissions.*

Over the project's assumed 30-year lifespan, there will be a cumulative total of 726.38 MTCO2e emitted without mitigations. According to the EPA's Greenhouse Gas Equivalencies Calculator, this is equivalent to CO2 emissions from 97.6 homes' energy use for one year. Annualized, this is 23.43 MTCO2e emitted per year. At least some of these emissions may be mitigated or offset by practices that can remove carbon from the atmosphere and sequester it.

Other mitigation measures can reduce indirect GHG emissions due to energy usage and other activities. These mitigation efforts may include planting native grasses to facilitate carbon uptake. However, during construction, contract laborers will be encouraged to carpool and BMPs such as engine anti-idling will be implemented to minimize additional GHG output.

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ii. *Describe and quantify reductions from selected mitigation, if proposed to reduce theproject's GHG emissions. Explain why the selected mitigation was preferred.*

No additional mitigation measures are proposed beyond those previously discussed in the environmental review.

iii. *Quantify the proposed projects predicted net lifetime GHG emissions (total tons/#of years) and how those predicted emissions may affect achievement of the Minnesota Next Generation Energy Act goals and/or other more stringent state or local GHG reduction goals.*

As current MN Statutes require greenhouse gas (GHG) emissions control plans for large energy facilities, the state has implemented a climate action plan to address GHG emissions. Current goals are to reduce GHG emissions statewide to 30% below 2005 levels by 2025, and 80% below 2005 levels by 2050.

Minnesota's Climate Action Framework has a priority action to Establish a standard to achieve 100% carbon-free electricity and 55% renewable electricity by 2040. Minnesota's current, updated 2023, Climate Action Framework goals are to reduce greenhouse gas emissions 50% by 2030 from a 2005 baseline and achieve net-zero emissions by 2050. The proposed project does not involve any large energy facilities but includes sports fields, impervious surfaces, concession stands. BMPs will be utilized in the planning and construction phases of the project to remain in keeping with state and local GHG reduction goals. Again, over the project's assumed 30-year lifespan, there will be a cumulative estimated 726.38 MTCO2e emitted without mitigations.

19. Noise

Describe sources, characteristics, duration, quantities, and intensity of noise generated during project construction and operation. Discuss the effect of noise in the vicinity of the project including 1) existing noise levels/sources in the area, 2) nearby sensitive receptors, 3) conformance to state noise standards, and 4) quality of life. Identify measures that will be taken to minimize or mitigate the effects of noise.

During the deconstruction of the Centennial Office Building, noise will be generated primarily from heavy equipment operation, demolition machinery, material handling, and truck traffic. These activities will produce intermittent but high-intensity noise, particularly during structural dismantling and debris removal. The construction phase is expected to last several months, with typical work hours during the day. Existing noise sources in the area include urban traffic, light rail operations, and general activity associated with the Capitol Complex. Nearby sensitive receptors include government offices, public buildings, and pedestrian areas, which may experience temporary disruptions due to elevated noise levels.

The project will conform to Minnesota Pollution Control Agency (MPCA) state noise standards, which set limits based on land use and time of day. To minimize noise impacts, construction will be limited to standard daytime hours, and equipment will be maintained in good working condition with mufflers and noise-reducing attachments where feasible. Additional mitigation measures may include temporary noise barriers or scheduling particularly loud activities during periods of lower occupancy in adjacent buildings. These efforts aim to reduce the impact on quality of life for workers, visitors, and nearby residents

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during the demolition process.

After deconstruction is complete, operational noise at the site will be minimal. The area will be converted into landscaped green space with no mechanical systems or active operations expected to generate ongoing noise, resulting in a quieter environment compared to its previous use as an office building.

20. Transportation

a) *Describe traffic-related aspects of project construction and operation. Include: 1) existing and proposed additional parking spaces, 2) estimated total average daily traffic generated, 3) estimated maximum peak hour traffic generated and time of occurrence, 4) indicate source of trip generation rates used in the estimates, and 5) availability of transit and/or other alternative transportation modes.*

The deconstruction of the Centennial Office Building will not add or remove any parking spaces, and no new facilities are being constructed that would generate additional traffic. As the building will be permanently removed, the number of office spaces on the Capitol Campus will decrease, potentially reducing the number of staff commuting to the area. This may result in a modest long-term reduction in daily traffic volumes. During construction, temporary traffic disruptions may occur due to equipment staging or material hauling. However, construction best management practices (BMPs) will be implemented to manage any necessary traffic redirection safely and efficiently. No significant increase in average daily traffic or peak hour traffic is expected, and therefore, a traffic impact study is not required. The site is well-served by public transit, including Metro Transit bus routes and the nearby Green Line light rail, as well as pedestrian and bicycle infrastructure, offering alternative transportation options.

b) *Discuss the effect on traffic congestion on affected roads and describe any traffic improvements necessary. The analysis must discuss the project's impact on the regional transportation system. If the peak hour traffic generated exceeds 250 vehicles or the total daily trips exceeds 2,500, a traffic impact study must be prepared as part of the EAW. Use the format and procedures described in the Minnesota Department of Transportation's Access Management Manual, Chapter 5 (available at: http://www.dot.state.mn.us/accessmanagement/resources.html) or a similar local guidance,*

The project is not expected to negatively impact traffic congestion on surrounding roads or the regional transportation system. With the removal of office space and no new development planned, the overall demand on transportation infrastructure will decrease. Any temporary impacts during demolition will be localized and short-term, managed through traffic control measures and coordination with local agencies. No permanent traffic improvements are necessary as a result of this project.

c) *Identify measures that will be taken to minimize or mitigate project related transportation effects.*

To minimize transportation-related impacts during deconstruction, the project will implement construction BMPs such as clear signage, temporary traffic control, and coordination with local transportation authorities. If sidewalk or lane closures are required, safe detours will be provided for pedestrians and vehicles. These measures will ensure that any temporary transportation effects are minimized and that the project proceeds with minimal disruption to the Capitol Campus and surrounding community.

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21. Cumulative potential effects

(Preparers can leave this item blank if cumulative potential effects are addressed under the applicable EAW Items)

a) *Describe the geographic scales and timeframes of the project related environmental effects thatcould combine with other environmental effects resulting in cumulative potential effects.*
The environmental effects of the proposed demolition and site restoration at 658 Cedar Street are expected to occur primarily within the immediate project area, which includes the Centennial Office Building site and adjacent portions of the Capitol Complex in downtown Saint Paul. The geographic scale of potential cumulative effects may extend to surrounding infrastructure, including pedestrian tunnels, utility corridors, and stormwater systems. The timeframe for these effects spans from the start of demolition in 2028 through the completion of site restoration and vegetation establishment. Environmental effects such as temporary air and noise pollution, disruption of pedestrian and utility access, and changes in stormwater infiltration could overlap with similar impacts from other nearby projects occurring within this same timeframe and geographic area.

b) *Describe any reasonably foreseeable future projects (for which a basis of expectation has been laid) that may interact with environmental effects of the proposed project within the geographicscales and timeframes identified above.*
Within the Capitol Complex and surrounding downtown Saint Paul area, several reasonably foreseeable future projects may interact with the environmental effects of the Centennial Office Building demolition. These include planned infrastructure upgrades, utility replacements, and building renovations within adjacent state-owned properties such as the Veterans Service Building and Judicial Center. Additionally, ongoing Capitol Complex Master Planning efforts may result in future landscaping, stormwater improvements, or pedestrian connectivity enhancements that overlap spatially or temporally with the proposed project. Coordination with state agencies and local utilities suggests a basis for expectation that these projects will proceed within the same general timeframe, potentially contributing to cumulative effects related to access, noise, and stormwater management.

c) *Discuss the nature of the cumulative potential effects and summarize any other available information relevant to determining whether there is potential for significant environmental effects due to these cumulative effects.*
Within the Capitol Complex and surrounding downtown Saint Paul area, several reasonably foreseeable future projects may interact with the environmental effects of the Centennial Office Building demolition. These include planned infrastructure upgrades, utility replacements, and building renovations within adjacent state-owned properties such as the Veterans Service Building and Judicial Center. Additionally, ongoing Capitol Complex Master Planning efforts may result in future landscaping, stormwater improvements, or pedestrian connectivity enhancements that overlap spatially or temporally with the proposed project. Coordination with state agencies and local utilities suggests a basis for expectation that these projects will proceed within the same general timeframe, potentially contributing to cumulative effects related to access, noise, and stormwater management.

22. Other potential environmental effects

If the project may cause any additional environmental effects not addressed by items 1 to 19, describe the effects here, discuss how the environment will be affected, and identify

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measures that will be taken to minimize and mitigate these effects.

There are no other known environmental effects associated with the proposed demolition and site restoration project beyond those addressed in Items 1 through 19 of the Environmental Assessment Worksheet. The scope of work has been thoroughly reviewed, and all anticipated impacts—such as those related to air quality, noise, stormwater, vegetation, and utilities—have been accounted for within the applicable sections. No additional environmental concerns have been identified at this time, and no further mitigation measures are necessary beyond those already described.

RGU Certification

(The Environmental Quality Board will only accept SIGNED Environmental Assessment Worksheets for public notice in the EQB Monitor.)

I hereby certify that:

- The information contained in this document is accurate and complete to the best of myknowledge.
- The EAW describes the complete project; there are no other projects, stages or components other than those described in this document, which are related to the project as connected actions or phased actions, as defined at Minnesota Rules, parts 4410.0200, subparts 9c and 60,respectively.
- Copies of this EAW are being sent to the entire EQB distribution list.

Signature DocuSigned by: 7584766E080349F... Date 9/1/2026

Title Deputy Commissioner

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Appendix A: Location and Concept

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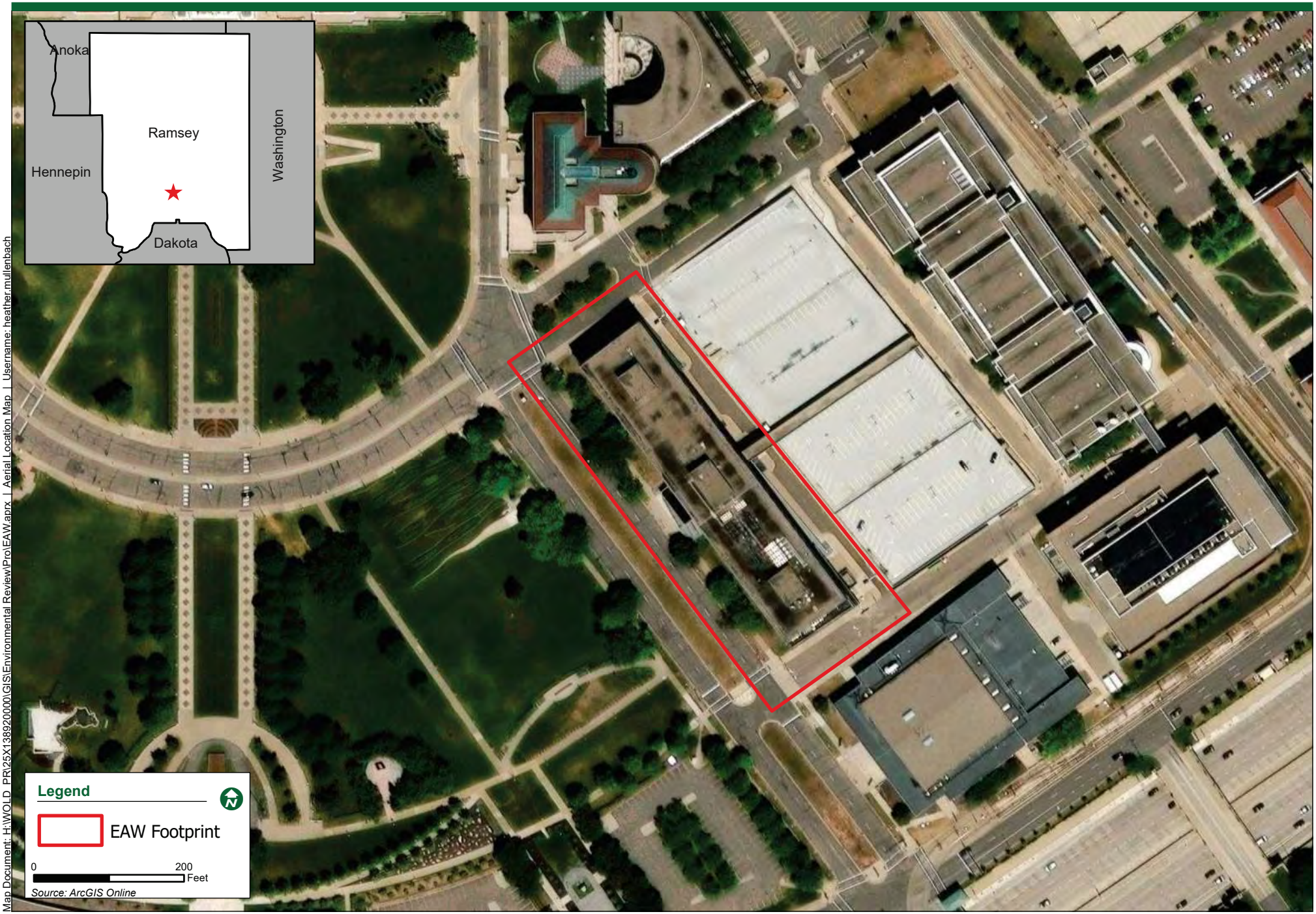
Centennial Office Building Demolition

Wold Architects and Engineers

Aerial Location Map

June 2025

BOLTON & MENK



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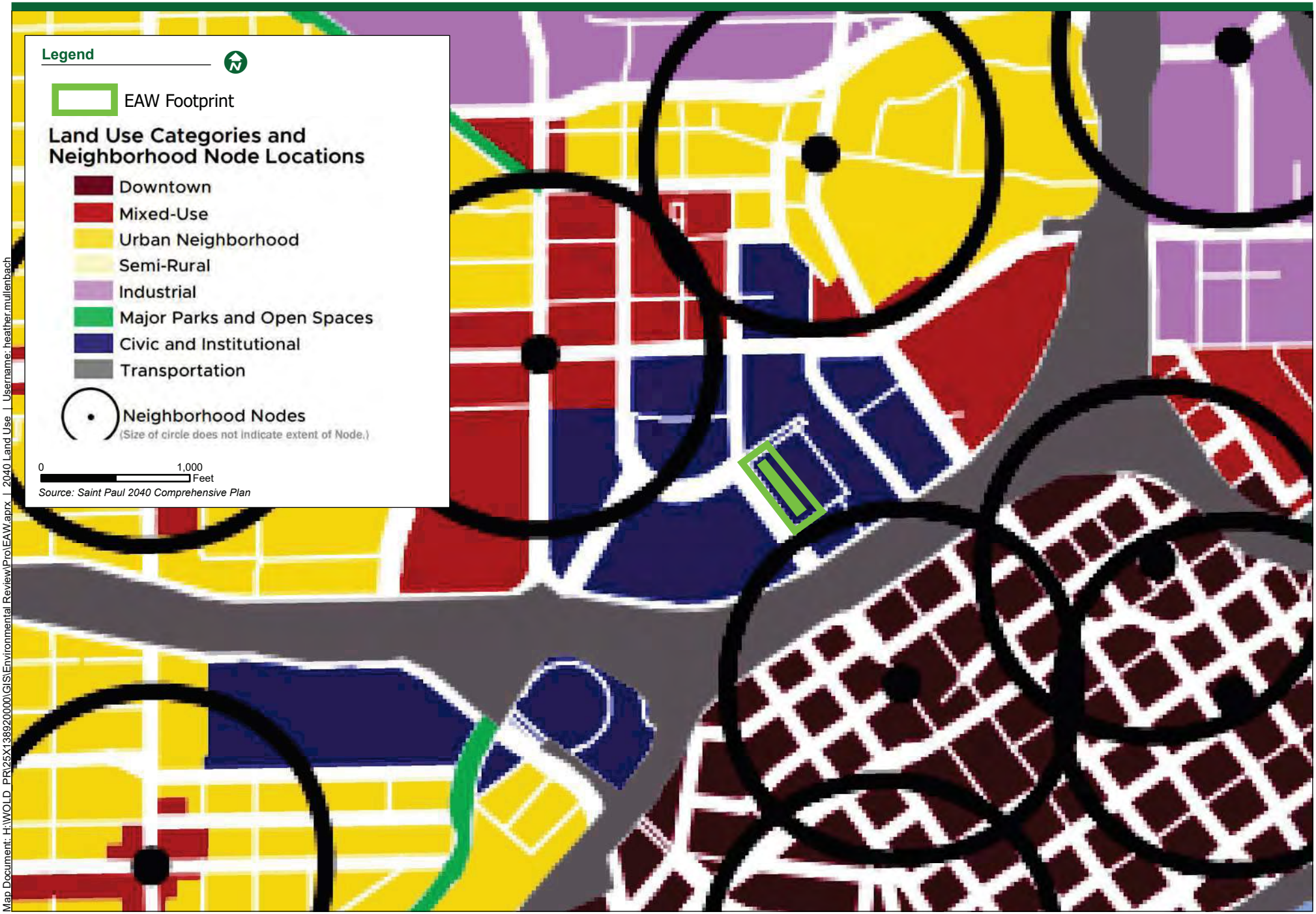

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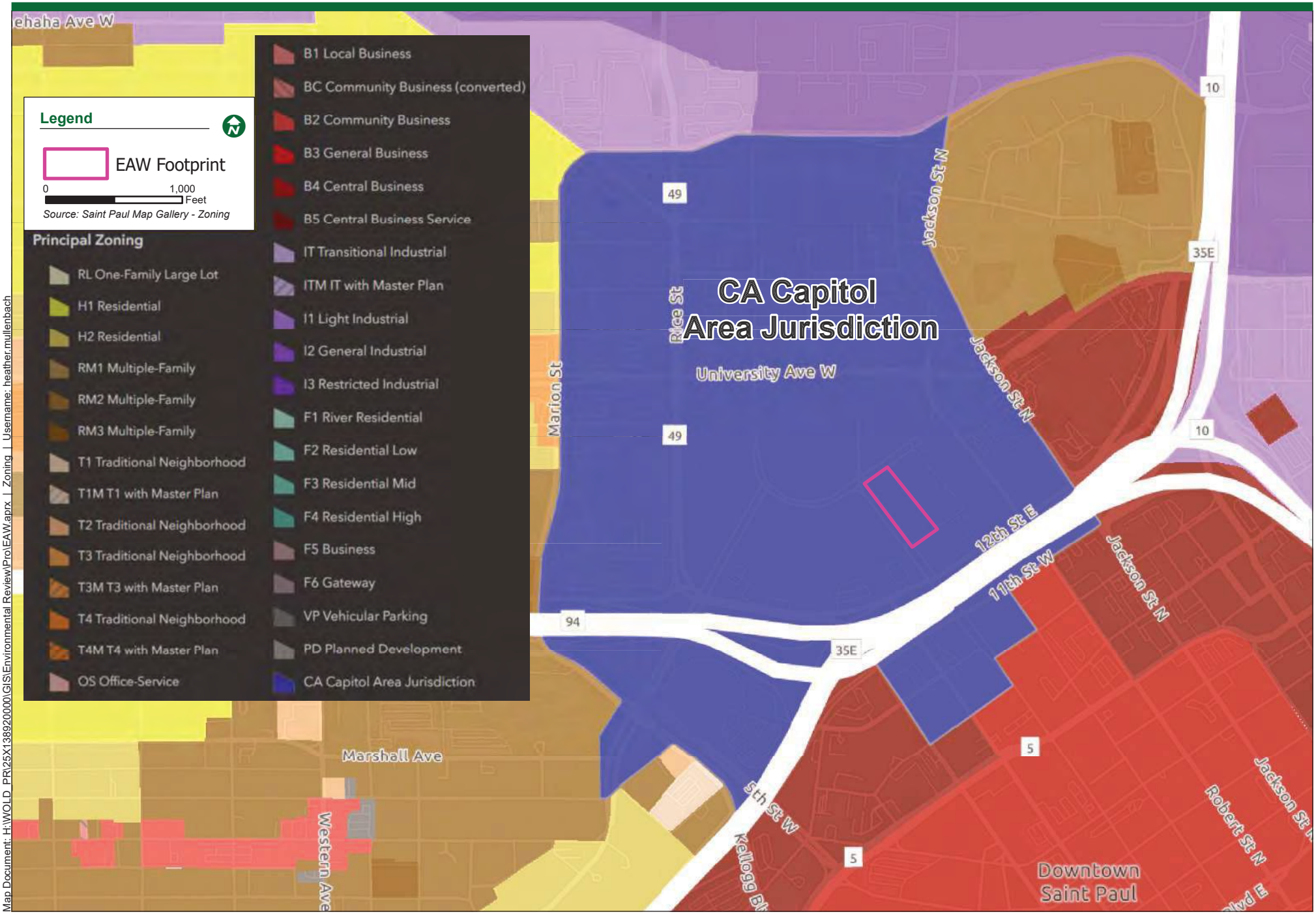

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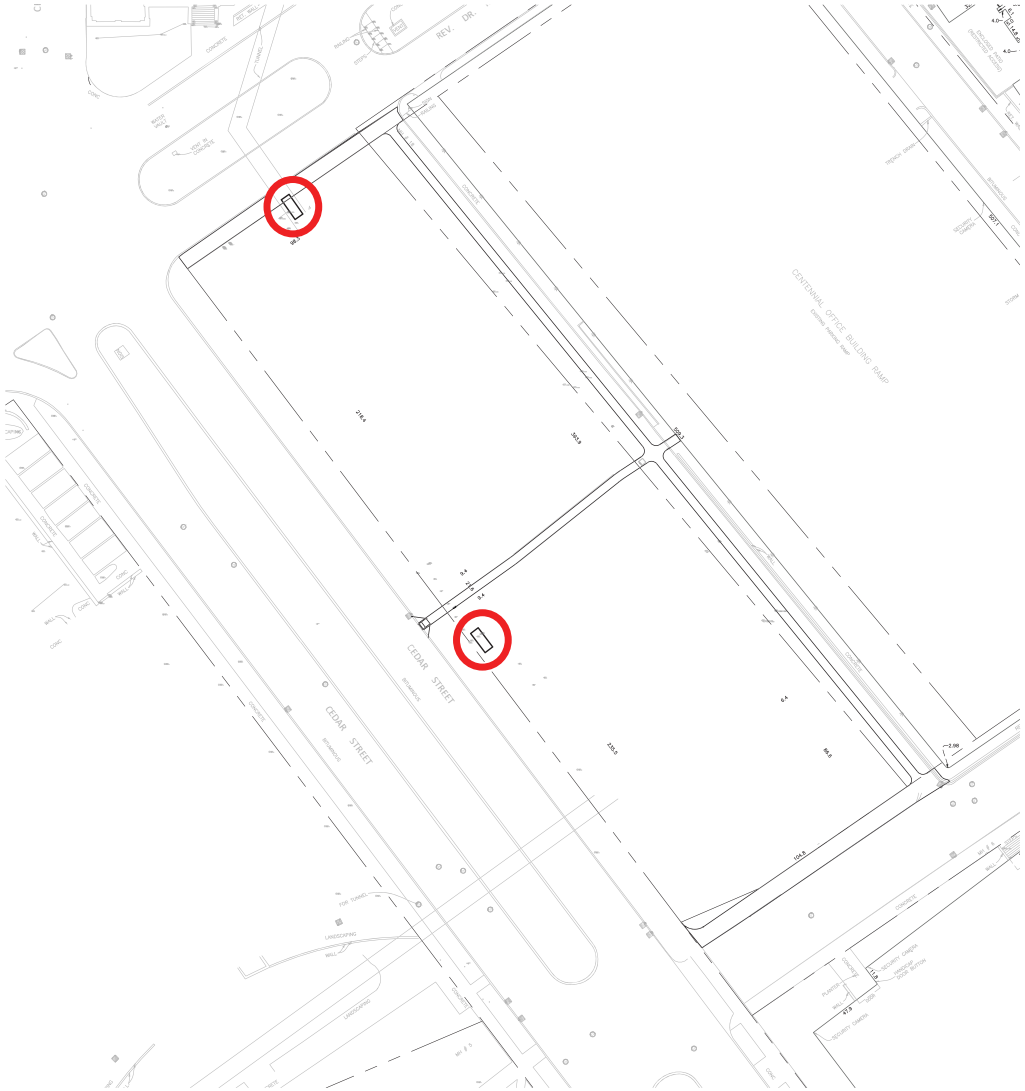
Remaining Tunnel Hatches



NOTES

1. REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
2. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
3. TRAFFIC SIGNS SHALL BE INSTALLED 18" BEHIND THE BACK OF CURB OR EDGE OF PAVEMENT.
4. ALL DISTURBED AREAS, WHICH ARE NOT DESIGNATED TO BE PAVED, SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.
5. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER OR LANDSCAPE ARCHITECT.

LEGEND

- REFERENCE KEY TO SITE DETAILS (DETAIL I.D. NUMBER (TOP) / DETAIL SHEET NUMBER (BOTTOM))
- PROPOSED CONCRETE WALK
- PROPOSED CONCRETE SLAB
- PROPOSED ASPHALT PAVEMENT
- PROPOSED SOD LIMITS
- PROPOSED TRAFFIC SIGN
- PROPOSED MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- PROPOSED LIGHT POLE - REFER TO ELECTRICAL PLANS
- PROPERTY LINE

HORZ. SCALE 0 30 60 FEET

CENTENNIAL OFFICE BUILDING

658 CEDAR STREET
SAINT PAUL, MN 55155

Wold

WOLD ARCHITECTS AND ENGINEERS

BOLTON & MENK

3300 FERNBROOK LANE NORTH, SUITE 300
PLYMOUTH, MN 55447
Phone: (763) 544-7129
Email: plymouth@bolton-menk.com
www.bolton-menk.com

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 PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

WILLIAM J. DIEDE
Registration Number: 59532 Date: 10/08/2024

Revisions		
Description	Date	Num

Comm: 232356
Date: 10/08/2024
Drawn: WJD
Check: DAR

North

SITE PLAN

Scale: As Indicated

C2.01

MN

C

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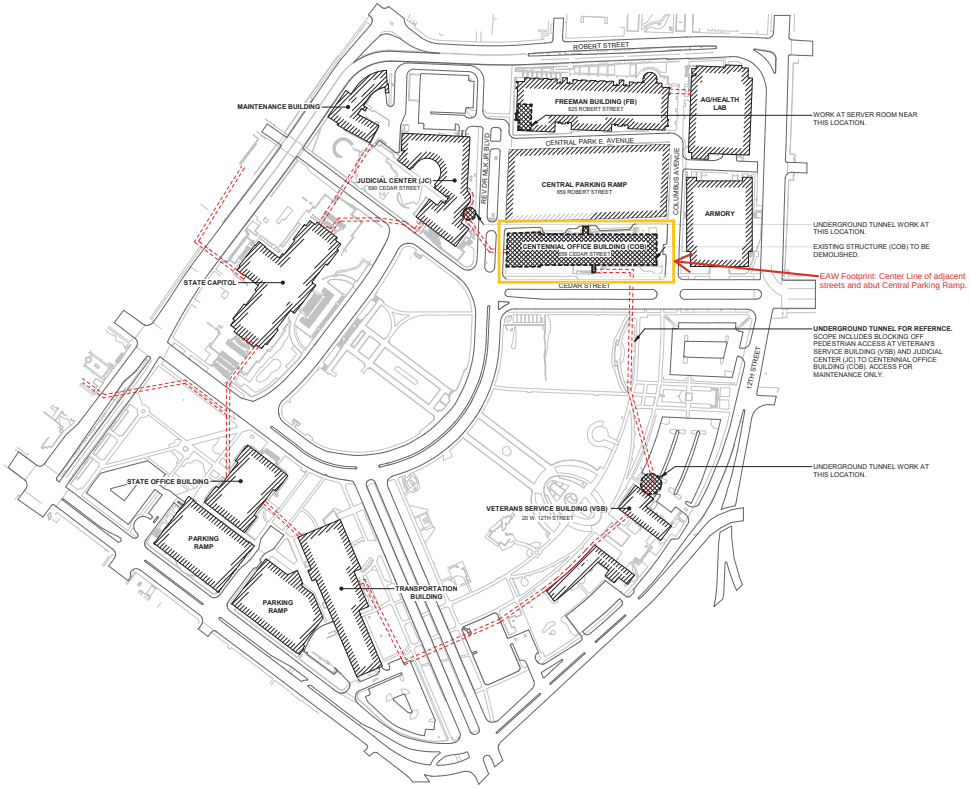
MN

CENTENNIAL OFFICE BUILDING DEMOLITION

STATE OF MINNESOTA
ST PAUL, MN



2020 MINNESOTA STATE BUILDING CODE

1011.15 Ships ladders.

Ships ladders constructed as required for permanent stairs in accordance with the Minnesota Mechanical Code, Minnesota Rules, part 1346.0306, subpart 1, amending IMC Section 306.5, shall be permitted to be used as a means of egress component at the following locations:

1.Ships ladders are permitted to be used in Group I-3 occupancies for means of egress at control rooms or elevated facility observation stations not more than 250 square feet (23 m2) in floor area.
2.Ships ladders are permitted to be used as a component for means of egress at recessed or elevated floors or platforms when the area served has an occupant load of five or fewer and the space meets all of the following criteria:
2.1.Access to the area served is limited to building facilities staff, maintenance staff, employees, or other authorized personnel.
2.2.Required access to the area served is limited and periodic.
2.3.The area served is used for building maintenance service functions, or for equipment access or monitoring.
2.4.The area served is not required to have a second means of egress by other provisions of this code.
2.5.The area served is not classified as a Group H occupancy.
3.Ships ladders are permitted to be used for access to unoccupied spaces in accordance with the Minnesota Mechanical Code.

2020 MINNESOTA STATE FIRE CODE

COMMON USE. Interior or exterior circulation paths, rooms, spaces or elements that are not for public use and are made available for the shared use of two or more people.

SECTION 610
PEDESTRIAN WALKWAYS, PEDESTRIAN TUNNELS, AND MEZZANINES

610.1 Installation and maintenance.
New pedestrian walkways and tunnels shall be constructed and maintained in conformance with the Building Code. Existing pedestrian walkways and pedestrian tunnels shall comply with the following:
1.Unless all buildings connected to them are protected throughout by approved automatic fire-extinguishing systems, pedestrian walkways and pedestrian tunnels shall, at a minimum, be separated from the interior of buildings by walls and self-closing doors constructed to form a barrier to limit the transfer of smoke.
2.The unobstructed width of pedestrian walkways and pedestrian tunnels shall not be less than 44 inches (1,118 mm).
3.Combustible materials or decorations shall not be located in pedestrian walkways or pedestrian tunnels. Interior wall, ceiling, and floor finishes shall comply with Chapter 8.
4.Pedestrian walkways and pedestrian tunnels that serve as required means of egress from attached buildings shall comply with Sections 1031 and 1104.
5.Pedestrian walkways and pedestrian tunnels exceeding 400 feet (122 m) in length shall be provided with means of egress so arranged that the maximum length of exit access travel to reach an exit does not exceed 200 feet (60,960 mm).
6.Means of egress from pedestrian walkways and pedestrian tunnels shall not be locked unless provisions for emergency egress are provided.

2020 MINNESOTA MECHANICAL AND FUEL GAS CODE

APPLIANCE. A device or apparatus that is manufactured and designed to utilize energy and for which this code provides specific requirements

306.1 Access.

Appliances, controls devices, heat exchangers and HVAC system components that utilize energy shall be accessible for inspection, service, repair and replacement without disabling the function of a fire-resistance-rated assembly or removing permanent construction, other appliances, venting systems or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. A level working space not less than 30 inches deep and 30 inches wide (762 mm by 762 mm) shall be provided in front of the control side to service an appliance.

306.4 Appliances under floors.

Underfloor spaces containing appliances shall be provided with an access opening and unobstructed passageway large enough to remove the largest appliance. The passageway shall be not less than 30 inches (762 mm) high and 22 inches (559 mm) wide, nor more than 20 feet (6096 mm) in length measured along the centerline of the passageway from the opening to the appliance. A level service space not less than 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the appliance. If the depth of the passageway or the service space exceeds 12 inches (305 mm) below the adjoining grade, the walls of the passageway shall be lined with concrete or masonry. Such concrete or masonry shall extend not less than 4 inches (102 mm) above the adjoining grade and shall have sufficient lateral-bearing capacity to resist collapse. The clear access opening dimensions shall be not less than 22 inches by 30 inches (559 mm by 762 mm), and large enough to allow removal of the largest appliance.

Exceptions:

1.The passageway is not required where the level service space is present when the access is open and the appliance is capable of being serviced and removed through the required opening.

2.Where the passageway is unobstructed and not less than 6 feet high (1929 mm) and 22 inches (559 mm) wide for its entire length, the passageway shall not be limited in length.

CIVIL

C0.000 CIVIL TITLE SHEET

ARCHITECTURAL

A1.000a COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN
A1.000b COB - LEVEL BASEMENT - DEMOLITION PLAN
A1.001a COB - LEVEL GROUND - DEMOLITION PLAN
A1.001b COB - LEVEL 1 - DEMOLITION PLAN
A1.002 COB - LEVEL 2 - DEMOLITION PLAN
A1.003 COB - LEVEL 3 - DEMOLITION PLAN
A1.004 COB - LEVEL 4 - DEMOLITION PLAN
A1.005 COB - LEVEL 5 - DEMOLITION PLAN
A1.006 COB - LEVEL PENTHOUSE - DEMOLITION PLAN
A1.100 PARKING RAMP - LEVEL 0 - DEMOLITION PLAN
A1.101 PARKING RAMP - LEVEL 1 - DEMOLITION PLAN
A1.104 PARKING RAMP - LEVEL 4 - DEMOLITION PLAN
A1.200 JC - LEVEL BASEMENT - DEMOLITION PLAN
A1.300 VSB - LEVEL BASEMENT - DEMOLITION PLAN
A1.400 FB - LEVEL BASEMENT - DEMOLITION PLAN
A1.500 COB - DEMOLITION WALL SECTIONS
A2.000a COB - LEVEL SUB-BASEMENT - FLOOR PLAN
A2.000b COB - LEVEL BASEMENT - FLOOR PLAN
A2.001 COB - SITE PLAN
A2.100 PARKING RAMP - LEVEL 0 - FLOOR PLAN
A2.101 PARKING RAMP - LEVEL 1 - FLOOR PLAN
A2.200 JC - LEVEL BASEMENT - FLOOR PLAN
A2.300 VSB - LEVEL BASEMENT - FLOOR PLAN
A2.400 FB - LEVEL BASEMENT - FLOOR PLAN

STRUCTURAL

S0.000 STRUCTURAL TITLE SHEET

MECHANICAL

M0.000 MECHANICAL TITLE SHEET

ELECTRICAL

E0.000 ELECTRICAL TITLE SHEET

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
ST PAUL, MN 55155

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
St. Paul, Minnesota 55101
woldae.com | 651 227 7773

Revisions		
Description	Date	Num

Comm: 252071
Date: Issue Date
Drawn: KS
Check: JW
North

COVER SHEET

A

SCHEMATIC DESIGN ESTIMATE SET
NOT FOR CONTRUCTION

Scale: 1" = 160'-0"

A0.000

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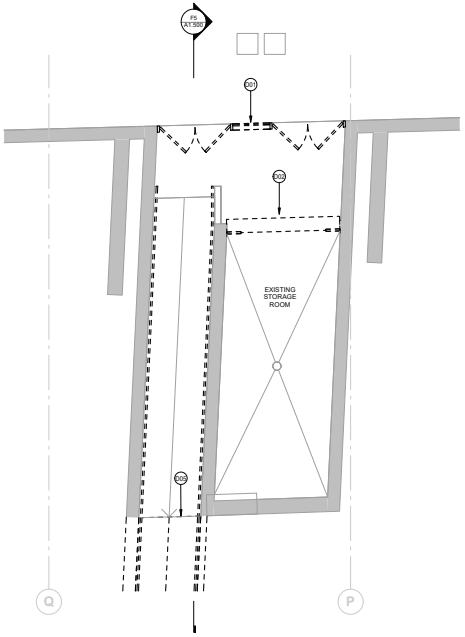
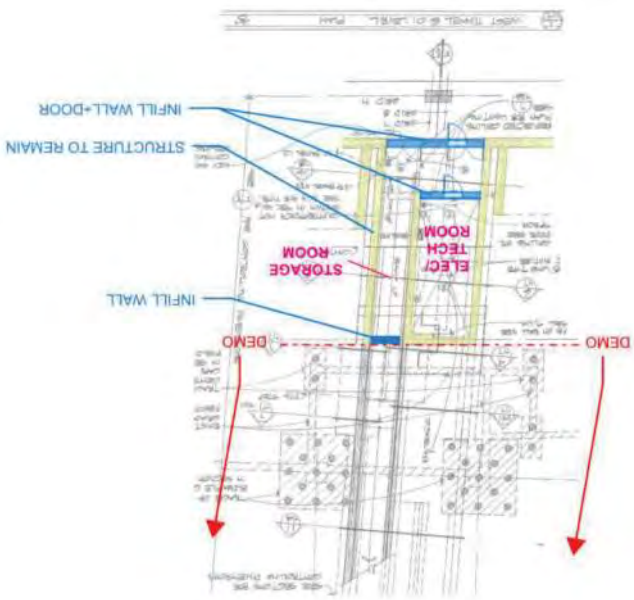


C1 COB - LEVEL SUB-BASEMENT - ENLARGED DEMOLITION PLAN
1/4" = 1'-0"



PARKING RAMP - LEVEL 0 - REFERENCE

DEMOLITION LEGEND

- WALL TO REMAIN
- WALL TO BE REMOVED
- DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE
- DESIGNATED ITEM TO REMAIN
- DESIGNATED ITEM TO BE REMOVED

DEMOLITION PLAN KEY NOTES:

D01 REMOVE EXISTING ALUMINUM DOORS, FRAME, AND HARDWARE IN IT'S ENTIRETY.

D02 REMOVE EXISTING COILING DOOR, FRAME, AND HARDWARE IN IT'S ENTIETY.

D03 SELECTIVE DEMOLITION

D04 REMOVE EXISTING HOLLOW METAL (HM) FRAME AND DOOR, INCLUDING GLAZING, HARDWARE, ANCHORS, ETC. COMPLETE.

D05 SAWCUT AND REMOVE EXISTING CONCRETE SLAB TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH MECHANICAL.

D06 REMOVE BUILDING IN ITS ENTIRETY. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION. FIELD VERIFY.

D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __ IN HEIGHT, IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED COMPONENTS, SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

D08 COORDINATE REMOVAL/DISCONNECTION OF EXISTING GAS UTILITY AND ASSOCIATED COMPONENTS WITH LOCAL UTILITY COMPANY. EXACT LOCATION OF UNDERGROUND PIPING IS UNKNOWN. SEE UTILITY NOTES ON SHEET __ FOR MORE INFORMATION.

D09 REMOVE CONCRETE RETAINING WALL IN ITS ENTIRETY.

D10 REMOVE EXISTING ABOVE GROUND FUEL TANK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, REFER TO SPECIFICATION SECTION 23 11 16 FOR ADDITIONAL REQUIREMENTS.

D11 REMOVE EXISTING CONCRETE PUMP HOUSE IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, ASLO SEE CIVIL.

D12 SAWCUT AND REMOVE EXISTING CONCRETE FLOOR SLAB TO THE EXTENTS SHOWN OR AS REQUIRED FOR NEW WATER SERVICE. ALSO SEE CIVIL. FOR CONCRETE FLOOR SLAB INFIL, SEE FLOOR PLAN KEY NOTE __.

DEMOLITION GENERAL NOTES

1. DEMOLITION NOTES AND PLANS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND EXAMINE DRAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
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6. PROVIDE SMOOTH AND CLEAN SUBSTRATE TO ALL AREAS RECEIVING NEW FINISHES. COORDINATE WORK WITH PLANS AND THE ROOM FINISH SCHEDULE.
7. ALL RELATED WOOD BLOCKING SUPPORT STRUCTURE, HARDWARE CONNECTION DEVICES, ADHESIVES, AND/OR MASTIC SHALL BE REMOVED FROM SURFACES AT ITEMS NOTED FOR REMOVAL. PROVIDE SURFACES ACCEPTABLE FOR PATCHING AND/OR NEW WORK.
8. DEMOLITION NOTES WITHOUT ARROWS INDICATE THAT THE NOTE APPLIES TO THE ENTIRE ROOM.
9. REFER TO SHEET __ FOR PHOTOGRAPHS OF BUILDINGS AND SITE (FOR REFERENCE ONLY). CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
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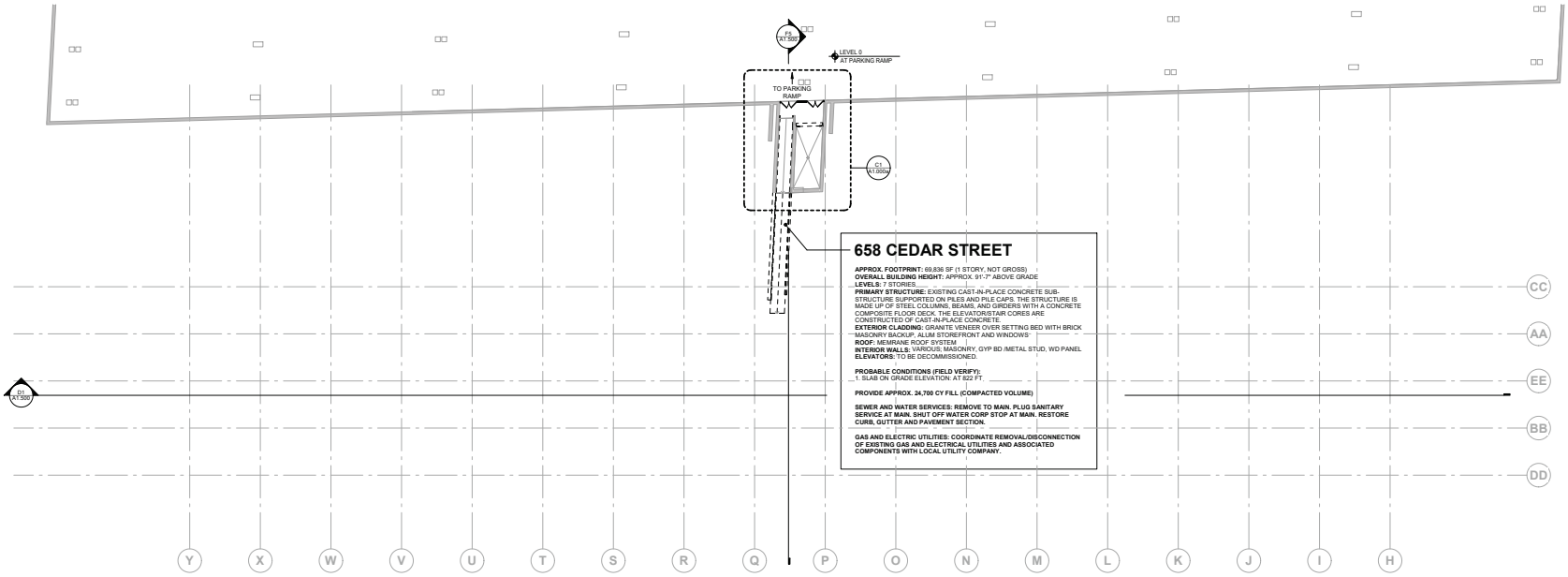

658 CEDAR STREET

APPROX. FOOTPRINT: 69,836 SF (1 STORY, NOT GROSS)
OVERALL BUILDING HEIGHT: APPROX. 91'-7" ABOVE GRADE
LEVELS: 7 STORIES
PRIMARY STRUCTURE: EXISTING CAST-IN-PLACE CONCRETE SUB-STRUCTURE SUPPORTED ON PILES AND PILE CAPS. THE STRUCTURE IS MADE UP OF STEEL COLUMNS, BEAMS, AND GIRDERS WITH A CONCRETE COMPOSITE FLOOR DECK. THE ELEVATOR/STAIR CORES ARE CONSTRUCTED OF CAST-IN-PLACE CONCRETE
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ROOF: MEMRANE ROOF SYSTEM
INTERIOR WALLS: VARIOUS: MASONRY, GYP BD /METAL STUD, WD PANEL
ELEVATORS: TO BE DECOMMISSIONED.

PROBABLE CONDITIONS (FIELD VERIFY):
1. SLAB ON GRADE ELEVATION: AT 622 FT

PROVIDE APPROX. 24,700 CY FILL (COMPACTED VOLUME)

SEWER AND WATER SERVICES: REMOVE TO MAIN. PLUG SANITARY SERVICE AT MAIN. SHUT OFF WATER CORP STOP AT MAIN. RESTORE CURB, GUTTER AND PAVEMENT SECTION.

GAS AND ELECTRIC UTILITIES: COORDINATE REMOVAL/DISCONNECTION OF EXISTING GAS AND ELECTRICAL UTILITIES AND ASSOCIATED COMPONENTS WITH LOCAL UTILITY COMPANY.

A

F1 COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"

SCHEMATIC DESIGN ESTIMATE SET
NOT FOR CONTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
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WOLD ARCHITECTS AND ENGINEERS
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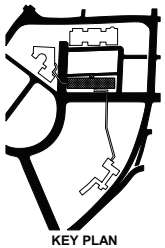

KEY PLAN

Revisions

Description	Date	Num

Comm: 252071
Date: Issue Date
Drawn: KS
Check: JW
North

COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN

Scale: As Indicated

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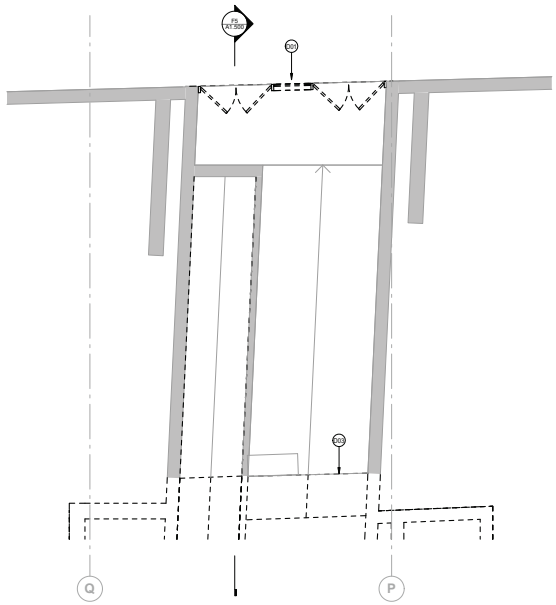

C1 COB - LEVEL BASEMENT - ENLARGED DEMOLITION PLAN
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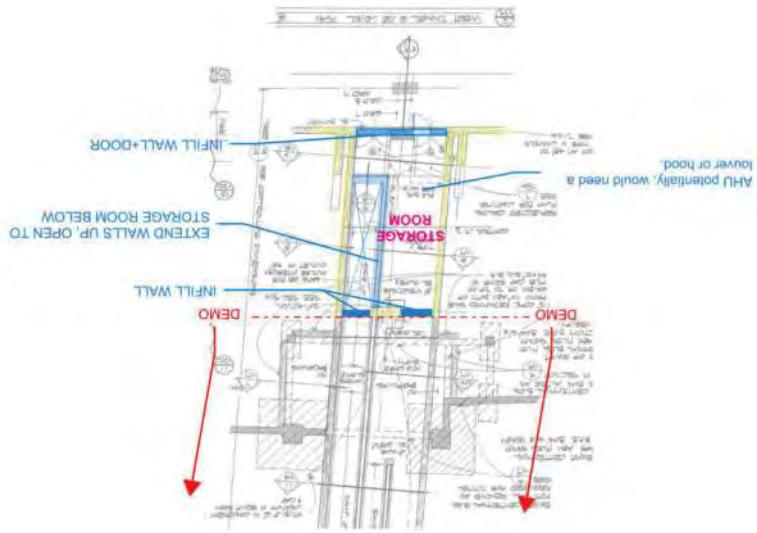

PARKING RAMP - LEVEL 1 - REFERENCE

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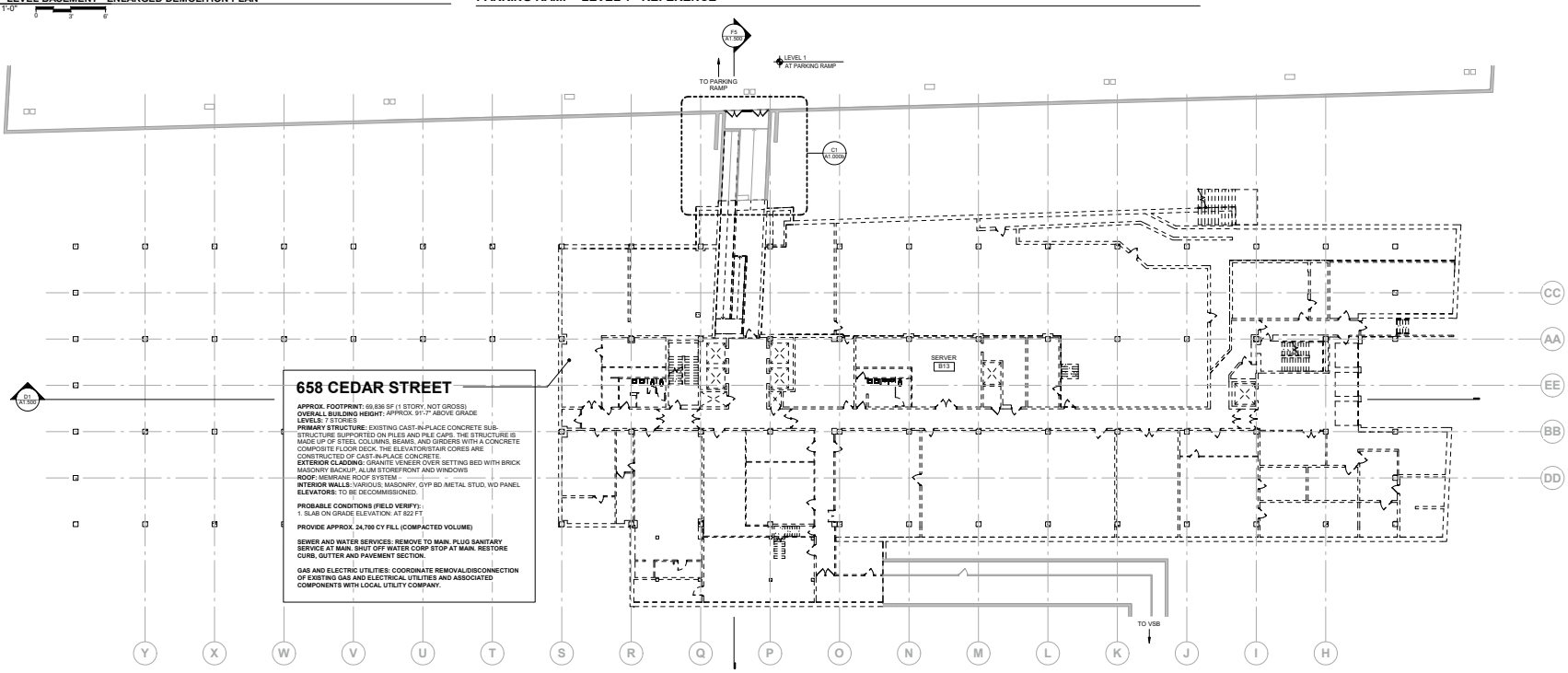

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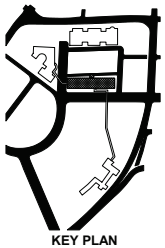

KEY PLAN

Revisions		
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Comm: 252071
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COB - LEVEL BASEMENT - DEMOLITION PLAN

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SCHEMATIC DESIGN ESTIMATE SET
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A1.000b

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MN

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D06 REMOVE BUILDING IN ITS ENTIRETY. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION. FIELD VERIFY.

D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __ IN HEIGHT, IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED COMPONENTS. SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

D08 COORDINATE REMOVAL/DISCONNECTION OF EXISTING GAS UTILITY AND ASSOCIATED COMPONENTS WITH LOCAL UTILITY COMPANY. EXACT LOCATION OF UNDERGROUND PIPING IS UNKNOWN. SEE UTILITY NOTES ON SHEET __ FOR MORE INFORMATION.

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D10 REMOVE EXISTING ABOVE GROUND FUEL TANK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, REFER TO SPECIFICATION SECTION 23 11 16 FOR ADDITIONAL REQUIREMENTS.

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DEMOLITION GENERAL NOTES

1. DEMOLITION NOTES AND PLANS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND EXAMINE DRAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL ASPECTS OF DEMOLITION. CONTRACTOR TO REVIEW ALL DRAWINGS FOR ADDITIONAL DETAILS AND CONSTRUCTION SEQUENCING NOTES. MECHANICAL AND ELECTRICAL DEMOLITIONS ARE SHOWN ON MECHANICAL AND ELECTRICAL DRAWINGS.
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7. ALL RELATED WOOD BLOCKING SUPPORT STRUCTURE, HARDWARE CONNECTION DEVICES, ADHESIVES, AND/OR MASTIC SHALL BE REMOVED FROM SURFACES AT ITEMS NOTED FOR REMOVAL. PROVIDE SURFACES ACCEPTABLE FOR PATCHING AND/OR NEW WORK.
8. DEMOLITION NOTES WITHOUT ARROWS INDICATE THAT THE NOTE APPLIES TO THE ENTIRE ROOM.
9. REFER TO SHEET __ FOR PHOTOGRAPHS OF BUILDINGS AND SITE (FOR REFERENCE ONLY). CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
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658 CEDAR STREET

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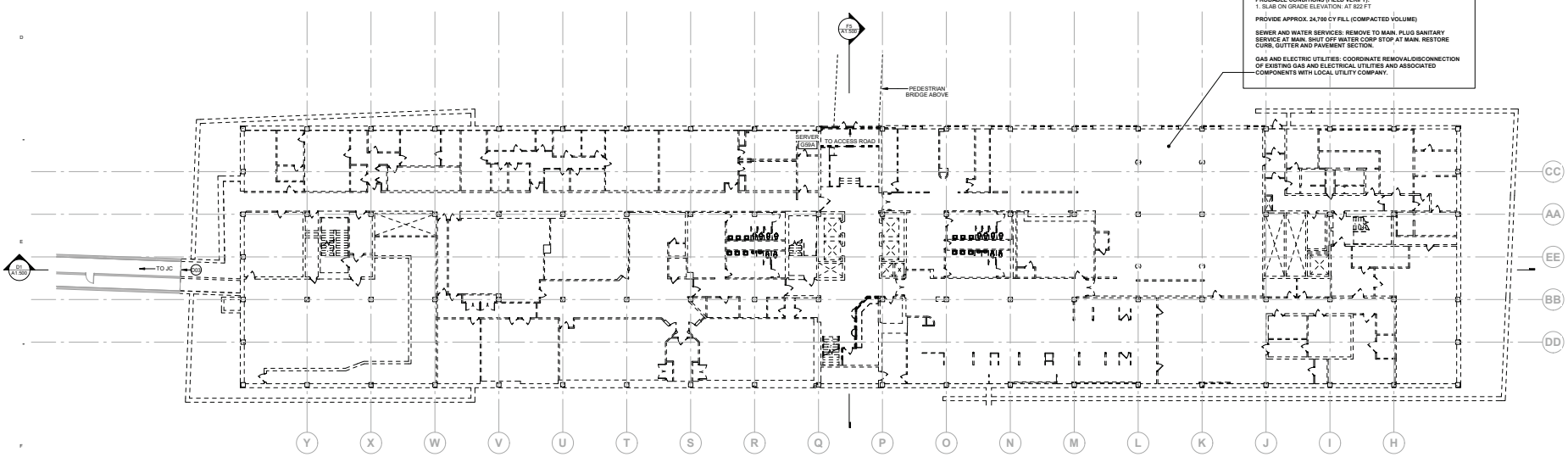

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F1 COB - LEVEL GROUND - DEMOLTION PLAN
1/16" = 1'-0"
0 12' 24'

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
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WOLD ARCHITECTS AND ENGINEERS
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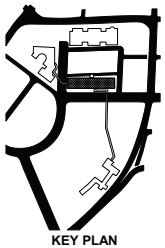

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
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Drawn: KS
Check: JW
North

COB - LEVEL GROUND - DEMOLITION PLAN

Scale: As Indicated

A1.001a

SCHEMATIC DESIGN ESTIMATE SET
NOT FOR CONTRUCTION

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MN

PEDESTRIAN BRIDGE - REFERENCE PHOTOS

DEMOLITION LEGEND

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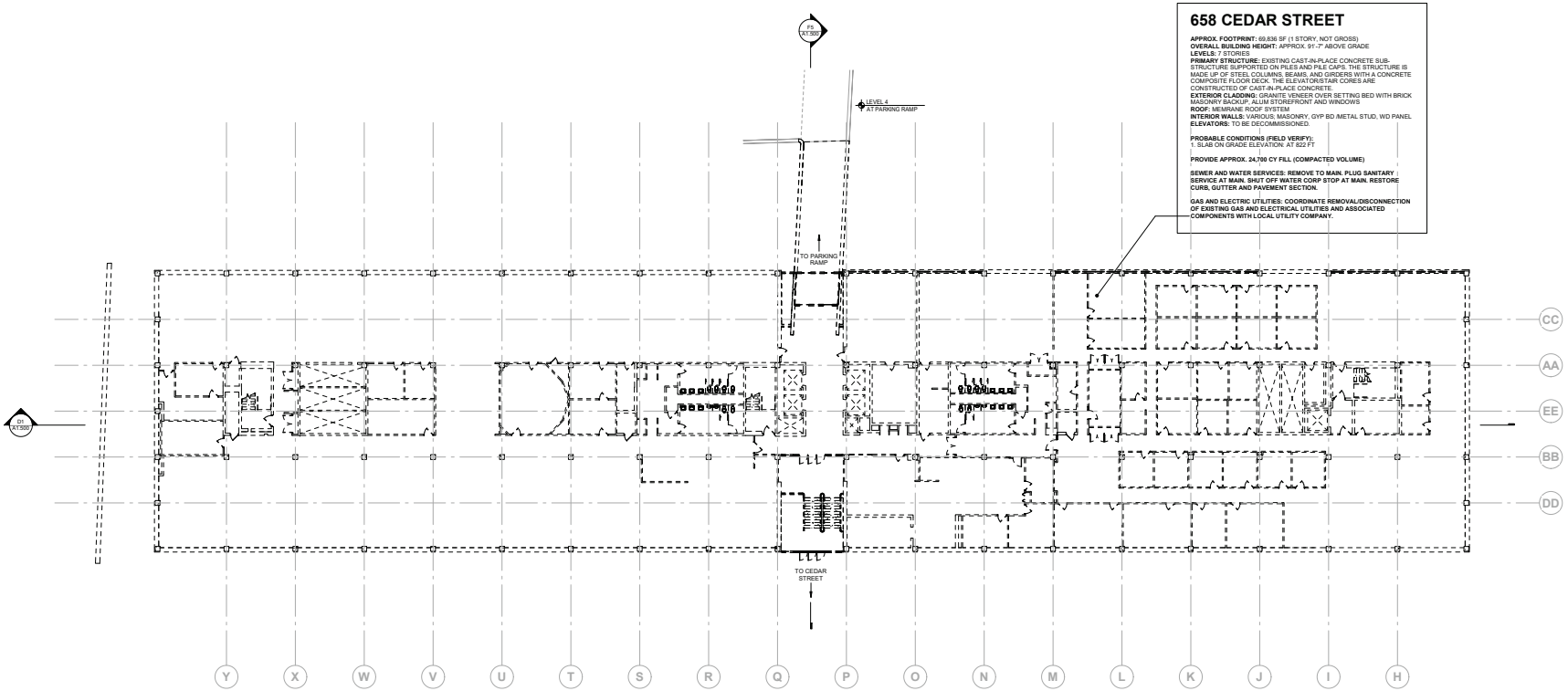

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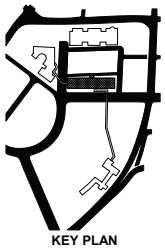
F1 COB - LEVEL 1 DEMOLITION PLAN
1/16" = 1'-0"
0 12 24



KEY PLAN

Revisions		
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Comm: 252071
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Check: JW
North

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658 CEDAR STREET

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PROBABLE CONDITIONS (FIELD VERIFY):
1. SLAB ON GRADE ELEVATION: A7' 822 FT

PROVIDE APPROX. 24,700 CY FILL (COMPACTED VOLUME)

SEWER AND WATER SERVICES: REMOVE TO MAIN. PLUG SANITARY SERVICE AT MAIN. SHUT OFF WATER CORP STOP AT MAIN. RESTORE CURB, GUTTER AND PAVEMENT SECTION.

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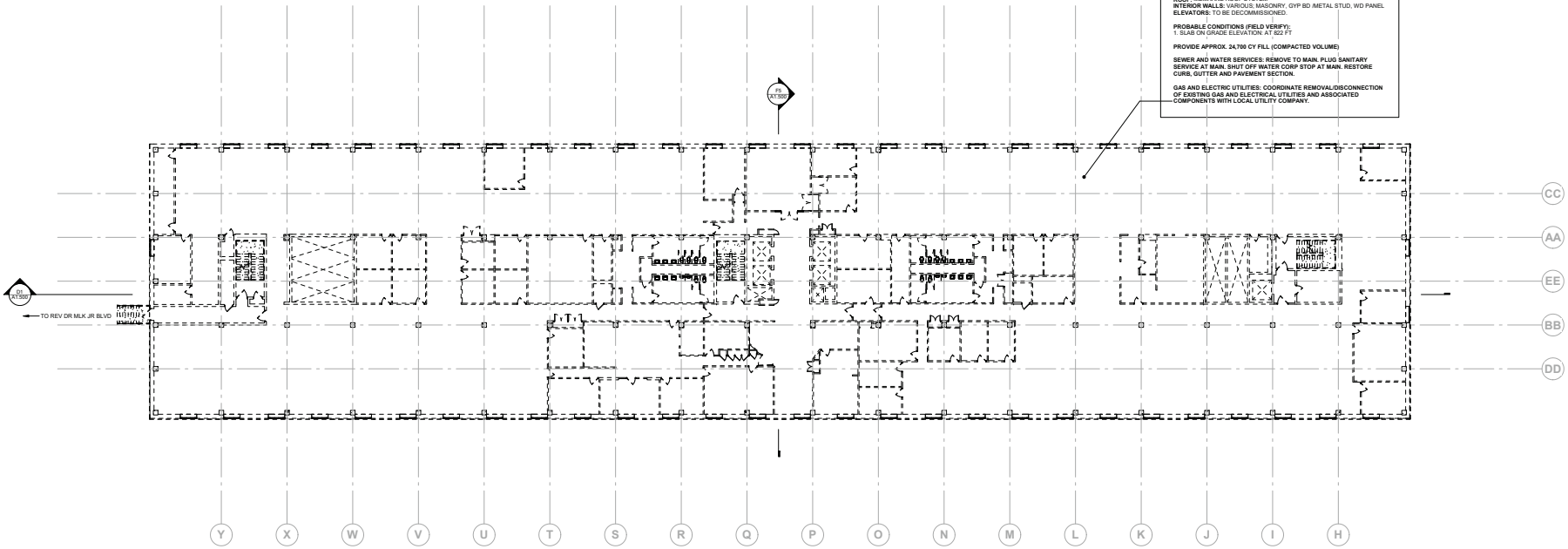

F1 COB - LEVEL 2 - DEMOLTION PLAN
1/16" = 1'-0"
0 12' 24'

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
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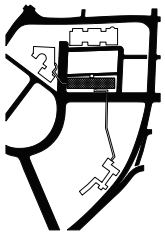

KEY PLAN

Revisions		
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North

COB - LEVEL 2 - DEMOLITION PLAN

Scale: As Indicated

SCHEMATIC DESIGN ESTIMATE SET
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MN

DEMOLITION LEGEND

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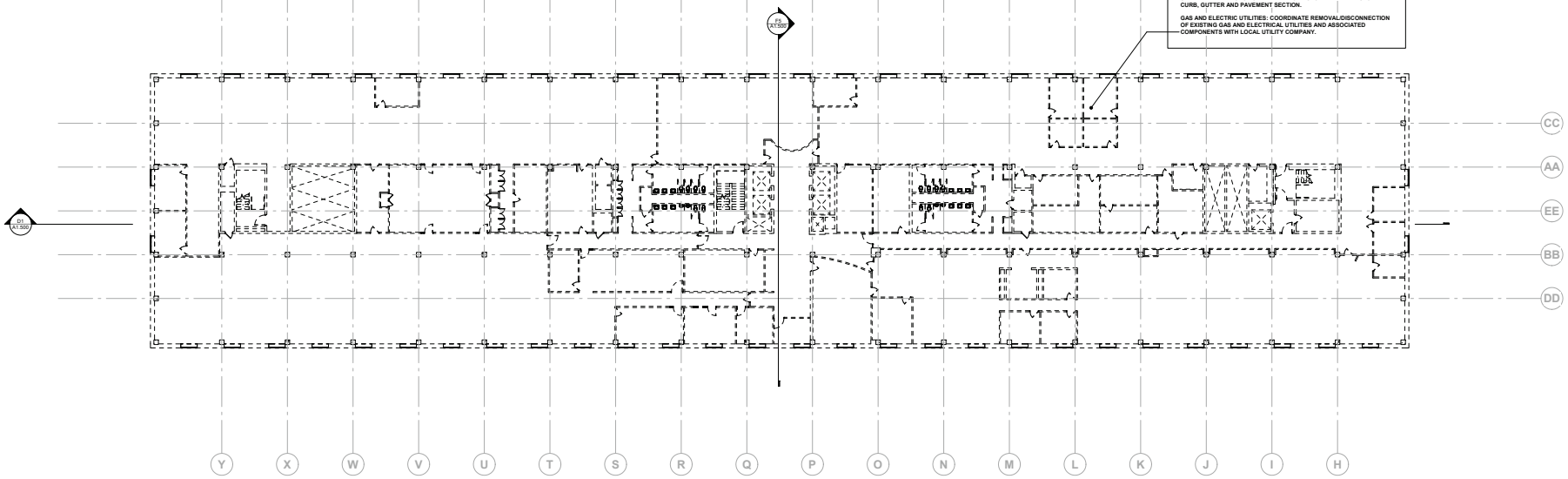

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F1 COB - LEVEL 3 - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
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WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
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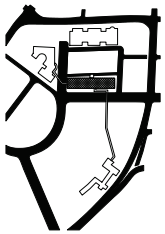

KEY PLAN

Revisions		
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Comm: 252071
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COB - LEVEL 3 - DEMOLITION PLAN

Scale: As Indicated

A1.003

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MN

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DEMOLITION LEGEND

- WALL TO REMAIN
- WALL TO BE REMOVED
- DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE
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D03 SELECTIVE DEMOLITION

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D05 SAWCUT AND REMOVE EXISTING CONCRETE SLAB TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH MECHANICAL.

D06 REMOVE BUILDING IN ITS ENTIRETY. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION. FIELD VERIFY.

D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __ IN HEIGHT, IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED COMPONENTS, SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

D08 COORDINATE REMOVAL/DISCONNECTION OF EXISTING GAS UTILITY AND ASSOCIATED COMPONENTS WITH LOCAL UTILITY COMPANY. EXACT LOCATION OF UNDERGROUND PIPING IS UNKNOWN. SEE UTILITY NOTES ON SHEET __ FOR MORE INFORMATION.

D09 REMOVE CONCRETE RETAINING WALL IN ITS ENTIRETY.

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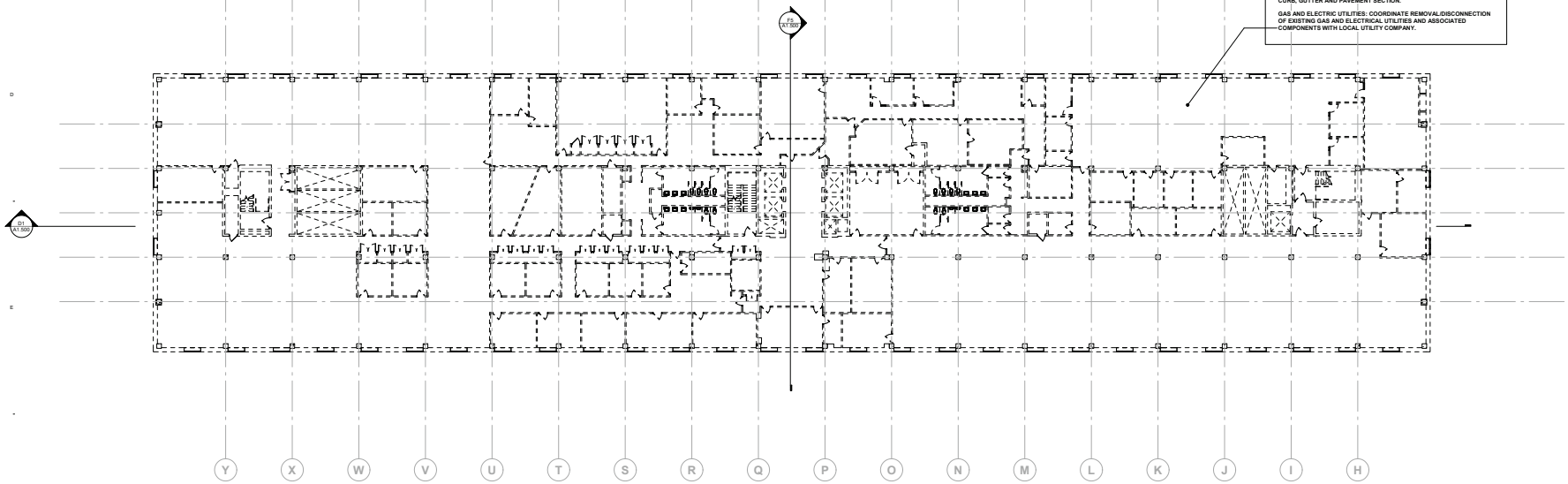

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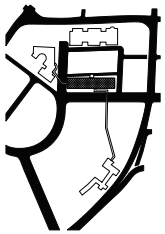

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A1.004

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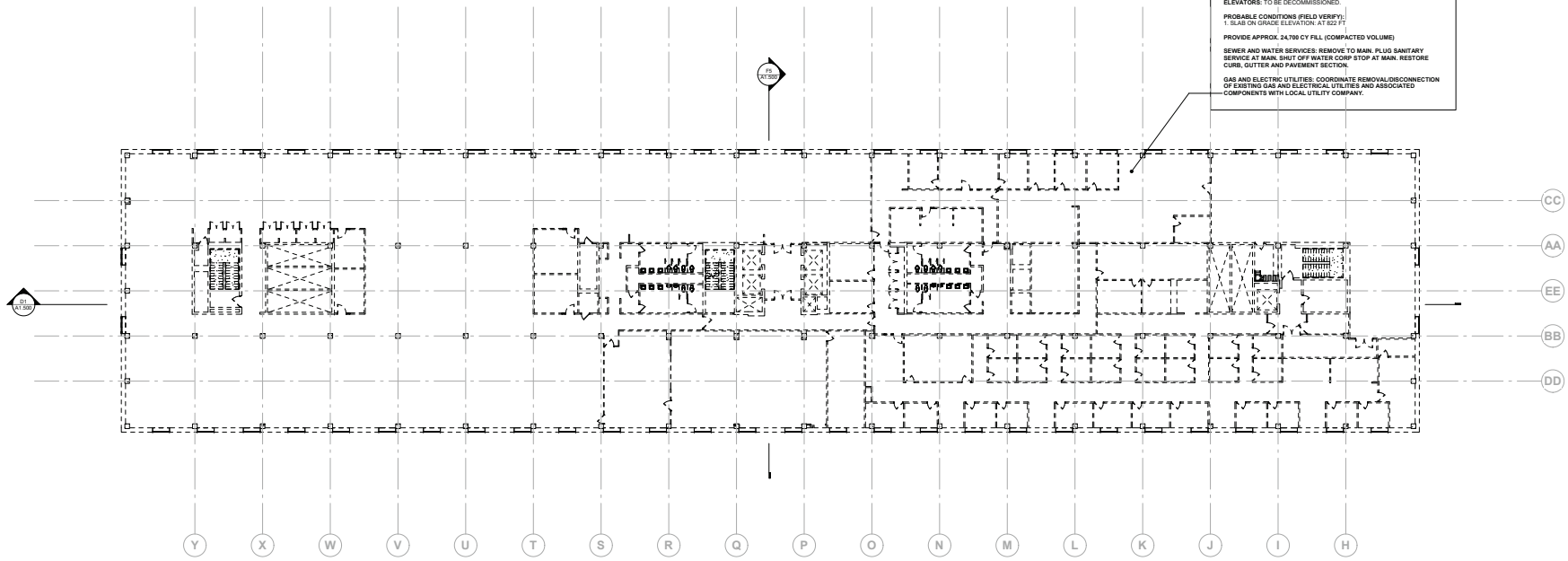

F1 COB - LEVEL 5 - DEMOLITION PLAN
1/16" = 1'-0"
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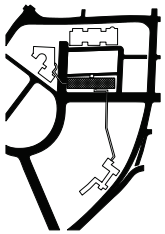

KEY PLAN

Revisions		
Description	Date	Num

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Drawn: KS
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North

COB - LEVEL 5 - DEMOLITION PLAN

Scale: As Indicated

A1.005

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MN

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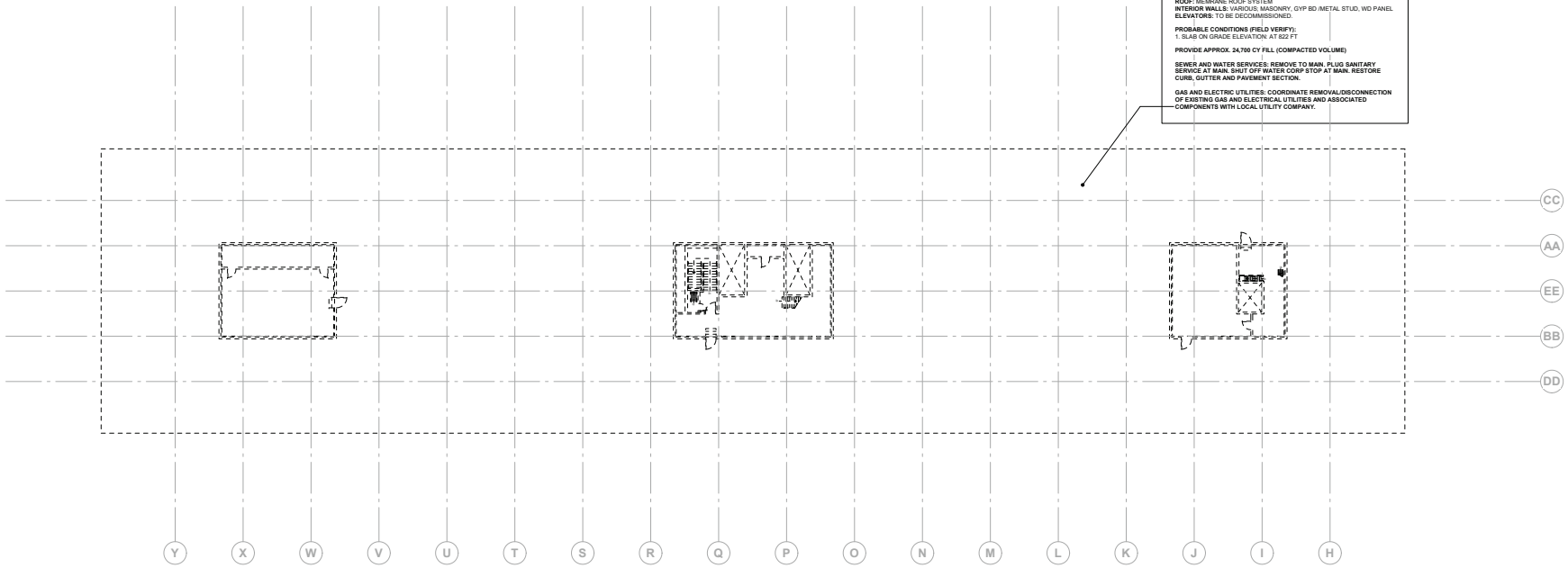

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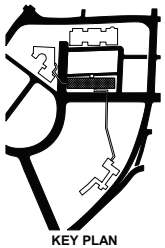

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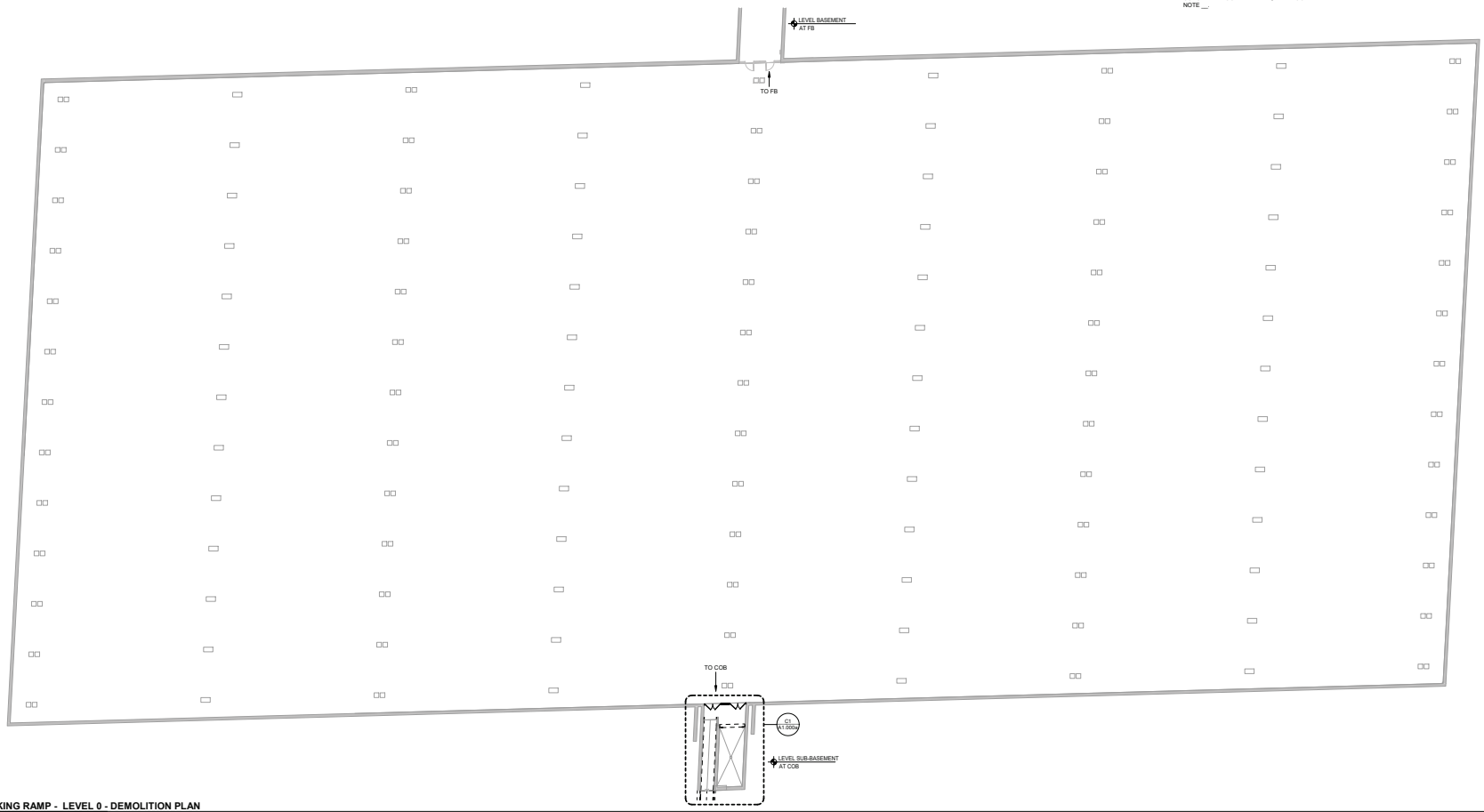

F1 PARKING RAMP - LEVEL 0 - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

SCHEMATIC DESIGN ESTIMATE SET
NOT FOR CONTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
ST PAUL, MN 55155

WOLD ARCHITECTS AND ENGINEERS
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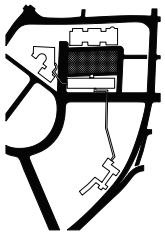

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: Issue Date
Drawn: KS
Check: JW
North

PARKING RAMP - LEVEL 0 - DEMOLITION PLAN

Scale: As Indicated

A1.100

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MN

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DEMOLITION LEGEND

- WALL TO REMAIN
- WALL TO BE REMOVED
- DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE
- DESIGNATED ITEM TO REMAIN
- DESIGNATED ITEM TO BE REMOVED

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D03 SELECTIVE DEMOLITION

D04 REMOVE EXISTING HOLLOW METAL (HM) FRAME AND DOOR, INCLUDING GLAZING, HARDWARE, ANCHORS, ETC. COMPLETE.

D05 SAWCUT AND REMOVE EXISTING CONCRETE SLAB TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH MECHANICAL.

D06 REMOVE BUILDING IN ITS ENTIRETY. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION. FIELD VERIFY.

D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __' IN HEIGHT, IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED COMPONENTS. SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

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D11 REMOVE EXISTING CONCRETE PUMP HOUSE IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, ASLO SEE CIVIL.

D12 SAWCUT AND REMOVE EXISTING CONCRETE FLOOR SLAB TO THE EXTENTS SHOWN OR AS REQUIRED FOR NEW WATER SERVICE, ALSO SEE CIVIL. FOR CONCRETE FLOOR SLAB INFIL, SEE FLOOR PLAN KEY NOTE __.

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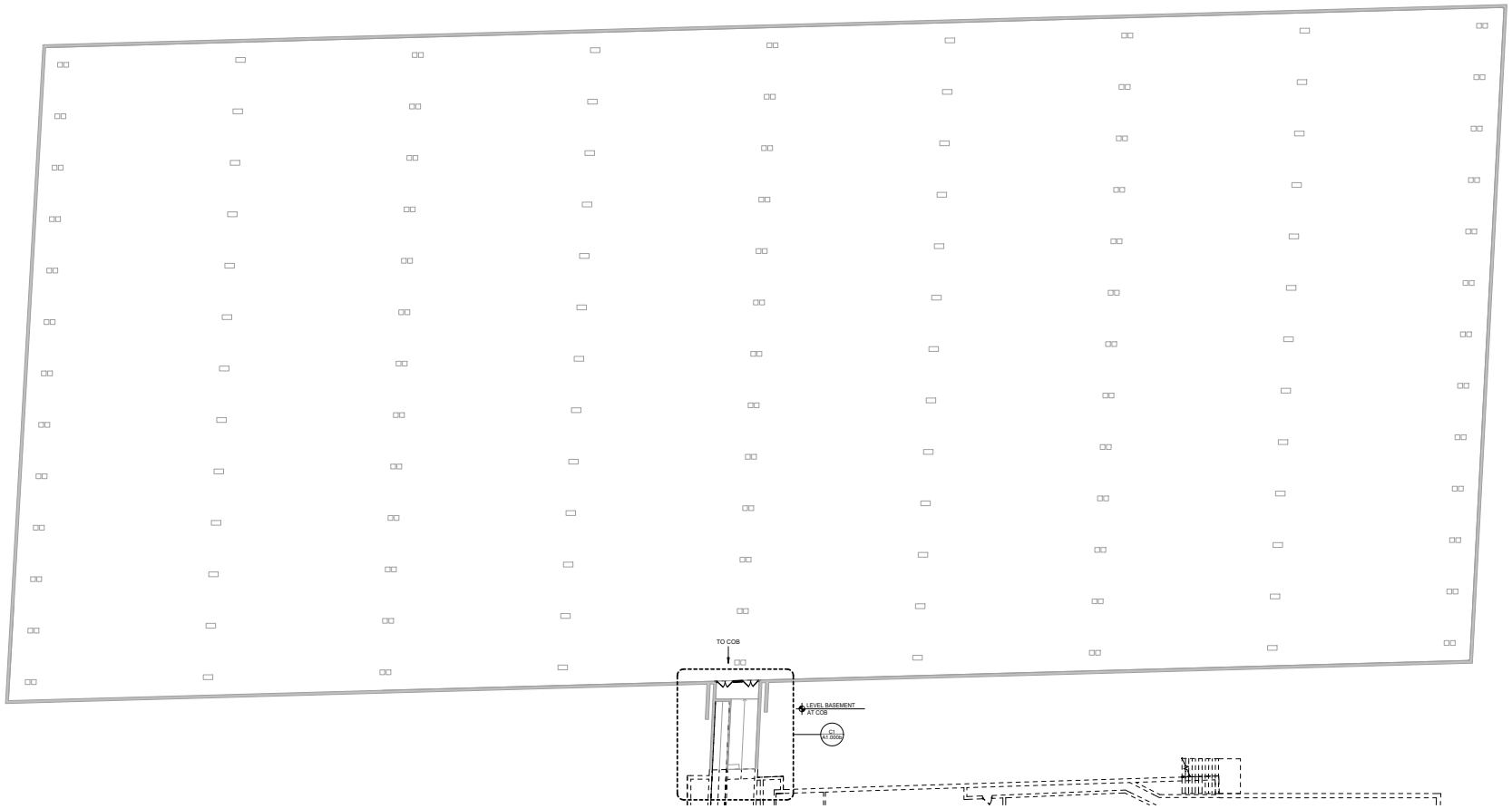

F1 PARKING RAMP - LEVEL 1 - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

SCHEMATIC DESIGN ESTIMATE SET
NOT FOR CONTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

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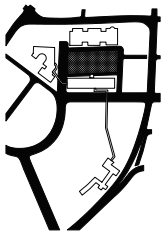

KEY PLAN

Revisions		
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Comm: 252071
Date: Issue Date
Drawn: KS
Check: JW
North

PARKING RAMP - LEVEL 1 - DEMOLITION PLAN

Scale: As Indicated

A1.101

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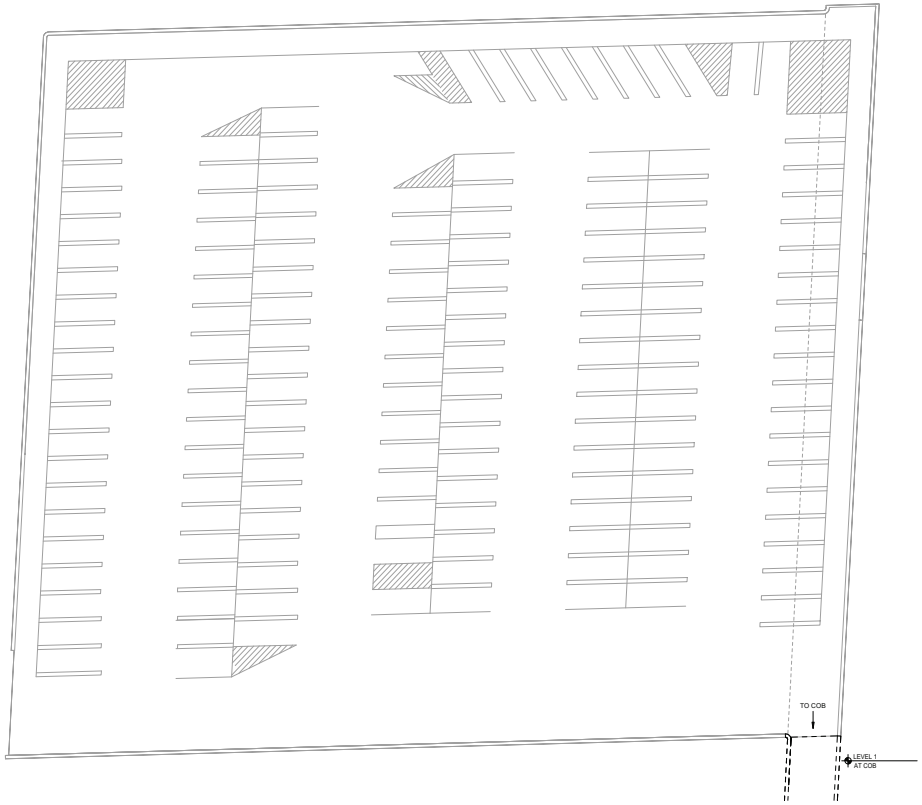

F1 PARKING RAMP - LEVEL 4 - DEMOLITION PLAN
1/16" = 1'-0"
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DEMOLITION LEGEND

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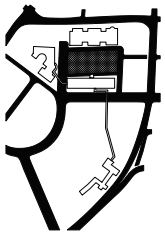

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: Issue Date
Drawn: KS
Check: JW
North

PARKING RAMP - LEVEL 4 - DEMOLITION PLAN

Scale: As Indicated

A1.104

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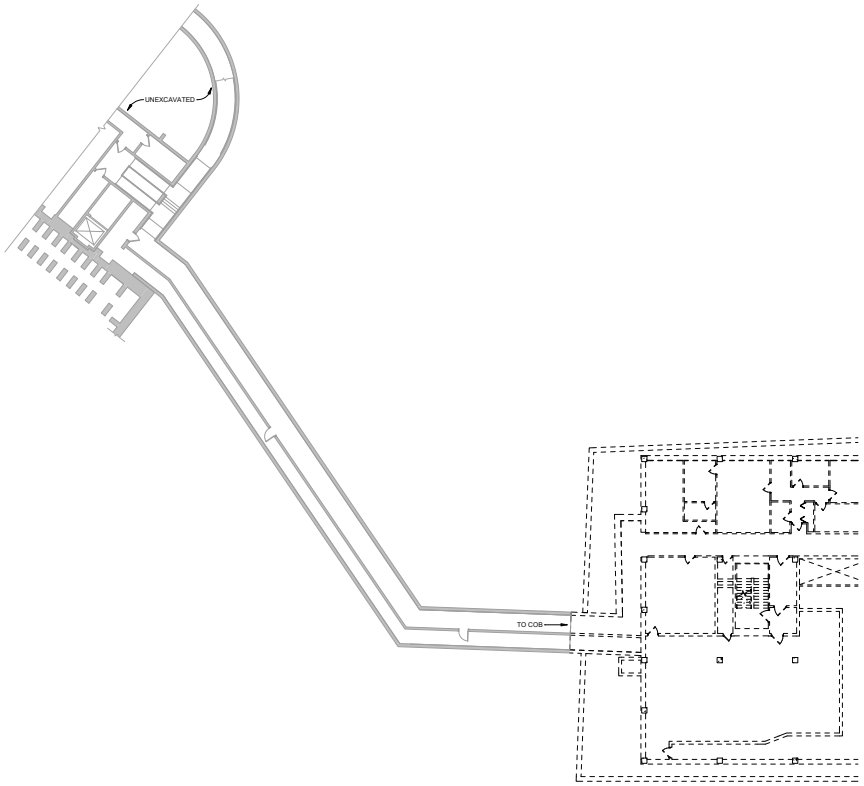

F1 JC - LEVEL BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

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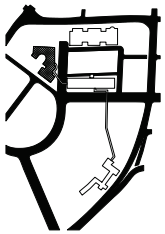

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
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JC - LEVEL BASEMENT - DEMOLITION PLAN

Scale: As Indicated

A1.200

SCHEMATIC DESIGN ESTIMATE SET
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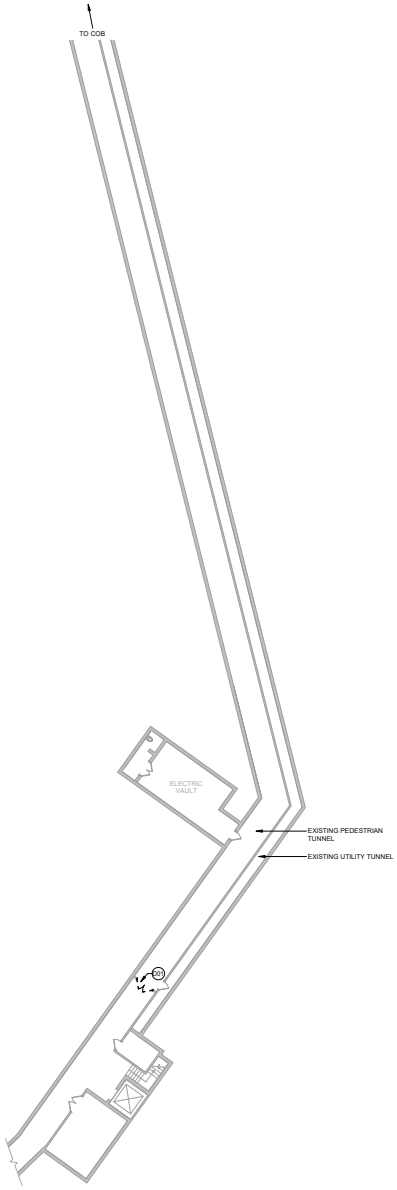

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F1 VSB - LEVEL BASEMENT - DEMOLITION PLAN
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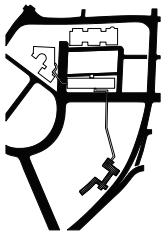

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Revisions		
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Comm: 252071
Date: Issue Date
Drawn: KS
Check: JW
North

VSB - LEVEL BASEMENT - DEMOLITION PLAN

Scale: As Indicated

A1.300

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MN

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DEMOLITION LEGEND

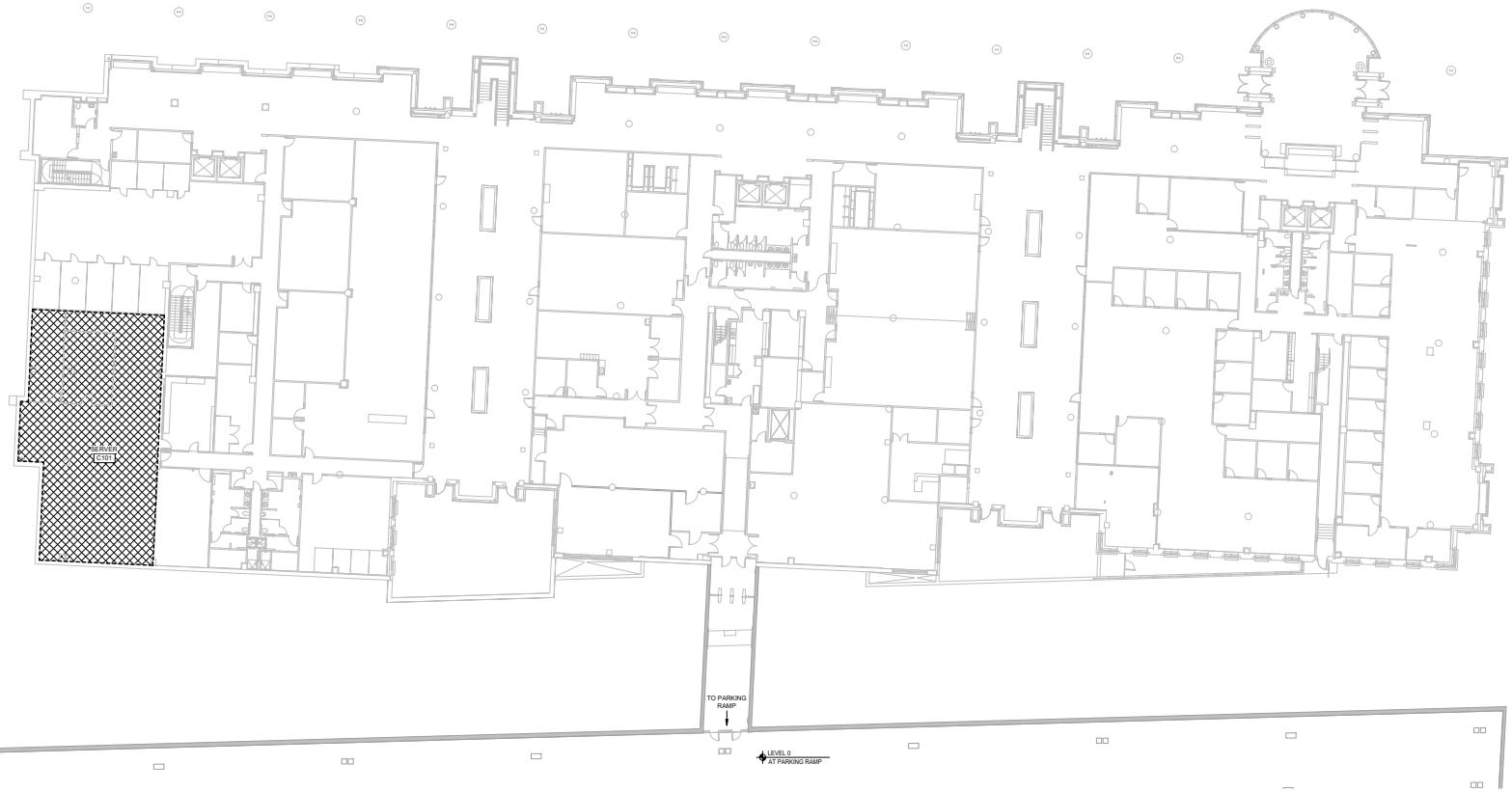
- WALL TO REMAIN
- WALL TO BE REMOVED
- DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE
- DESIGNATED ITEM TO REMAIN
- DESIGNATED ITEM TO BE REMOVED

DEMOLITION PLAN KEY NOTES:

1. REMOVE EXISTING ALUMINUM DOORS, FRAME, AND HARDWARE IN IT'S ENTIRETY.
2. REMOVE EXISTING COILING DOOR, FRAME, AND HARDWARE IN IT'S ENTIETY.
3. SELECTIVE DEMOLITION
4. REMOVE EXISTING HOLLOW METAL (HM) FRAME AND DOOR, INCLUDING GLAZING, HARDWARE, ANCHORS, ETC. COMPLETE.
5. SAWCUT AND REMOVE EXISTING CONCRETE SLAB TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH MECHANICAL.
6. REMOVE BUILDING IN ITS ENTIRETY. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION. FIELD VERIFY.
7. REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __ IN HEIGHT, IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED COMPONENTS, SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.
8. COORDINATE REMOVAL/DISCONNECTION OF EXISTING GAS UTILITY AND ASSOCIATED COMPONENTS WITH LOCAL UTILITY COMPANY. EXACT LOCATION OF UNDERGROUND PIPING IS UNKNOWN. SEE UTILITY NOTES ON SHEET __ FOR MORE INFORMATION.
9. REMOVE CONCRETE RETAINING WALL IN ITS ENTIRETY.
10. REMOVE EXISTING ABOVE GROUND FUEL TANK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, REFER TO SPECIFICATION SECTION 23 11 16 FOR ADDITIONAL REQUIREMENTS.
11. REMOVE EXISTING CONCRETE PUMP HOUSE IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, ASLO SEE CIVIL.
12. SAWCUT AND REMOVE EXISTING CONCRETE FLOOR SLAB TO THE EXTENTS SHOWN OR AS REQUIRED FOR NEW WATER SERVICE. ALSO SEE CIVIL. FOR CONCRETE FLOOR SLAB INFIL, SEE FLOOR PLAN KEY NOTE __.

DEMOLITION GENERAL NOTES

1. DEMOLITION NOTES AND PLANS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND EXAMINE DRAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL ASPECTS OF DEMOLITION. CONTRACTOR TO REVIEW ALL DRAWINGS FOR ADDITIONAL DETAILS AND CONSTRUCTION SEQUENCING NOTES. MECHANICAL AND ELECTRICAL DEMOLITIONS ARE SHOWN ON MECHANICAL AND ELECTRICAL DRAWINGS.
3. REFER TO MECHANICAL AND ELECTRICAL FOR ADDITIONAL DEMOLITION NOTES.
4. CONTRACTOR TO COORDINATE DEMOLITION WITH DETAILS AND STRUCTURAL DRAWINGS TO INSTALL NEW LINTELS OR STRUCTURAL COMPONENTS TO SUPPORT EXISTING STRUCTURE.
5. PROVIDE AND COORDINATE ALL DEMOLITION AND RECONSTRUCTION WITH NEW WORK PLAN DIMENSIONS AND INSTALLATION OF NEW MATERIALS AND FINISHES, AS REQUIRED, WHETHER INDICATED ON DRAWINGS OR NOT.
6. PROVIDE SMOOTH AND CLEAN SUBSTRATE TO ALL AREAS RECEIVING NEW FINISHES. COORDINATE WORK WITH PLANS AND THE ROOM FINISH SCHEDULE.
7. ALL RELATED WOOD BLOCKING SUPPORT STRUCTURE, HARDWARE CONNECTION DEVICES, ADHESIVES, AND/OR MASTIC SHALL BE REMOVED FROM SURFACES AT ITEMS NOTED FOR REMOVAL. PROVIDE SURFACES ACCEPTABLE FOR PATCHING AND/OR NEW WORK.
8. DEMOLITION NOTES WITHOUT ARROWS INDICATE THAT THE NOTE APPLIES TO THE ENTIRE ROOM.
9. REFER TO SHEET __ FOR PHOTOGRAPHS OF BUILDINGS AND SITE (FOR REFERENCE ONLY). CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
10. TOTAL BUILDING DEMOLITION IS SHOWN WITH HEAVY DASHED LINE (SEE DEMO LEGEND). WORK INCLUDES COMPLETE STRUCTURE REMOVAL INCLUDING FOUNDATIONS AND FOOTINGS. SEE PLAN NOTES AND SPECIFICATIONS FOR MORE INFORMATION INCLUDING FOUNDATIONS AND FOOTINGS. SEE PLAN NOTES AND SPECIFICATIONS FOR MORE INFORMATION INCLUDING UTILITY DISCONNECTS AND HAZARDOUS MATERIAL ABATEMENT, ELEVATOR DECOMMISIONING, FIRE ALARM SYSTEM REMOVAL, ETC.



F1 FB - LEVEL BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

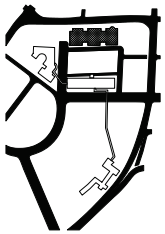
SCHEMATIC DESIGN ESTIMATE SET
NOT FOR CONTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
ST PAUL, MN 55155

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
St. Paul, Minnesota 55101
woldae.com | 651 227 7773



KEY PLAN

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FB - LEVEL BASEMENT - DEMOLITION PLAN

Scale: As Indicated

A1.400

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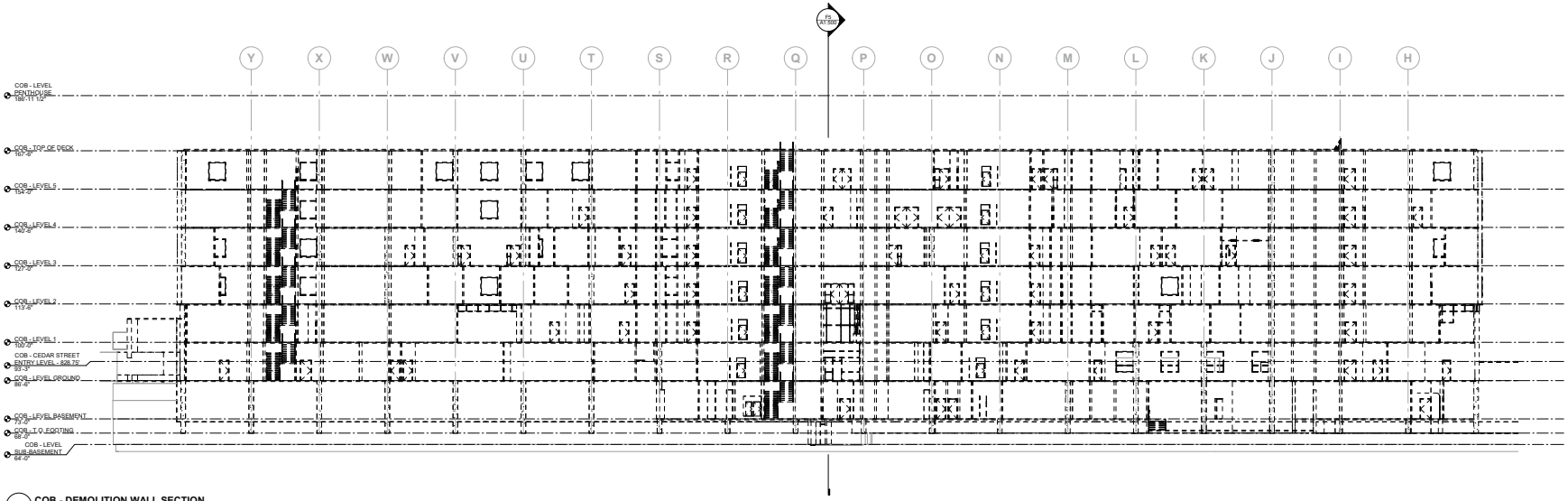
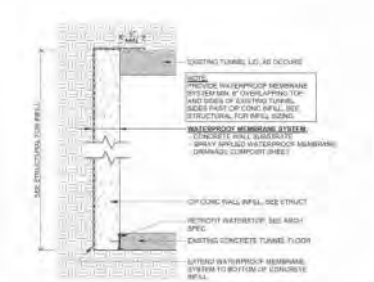
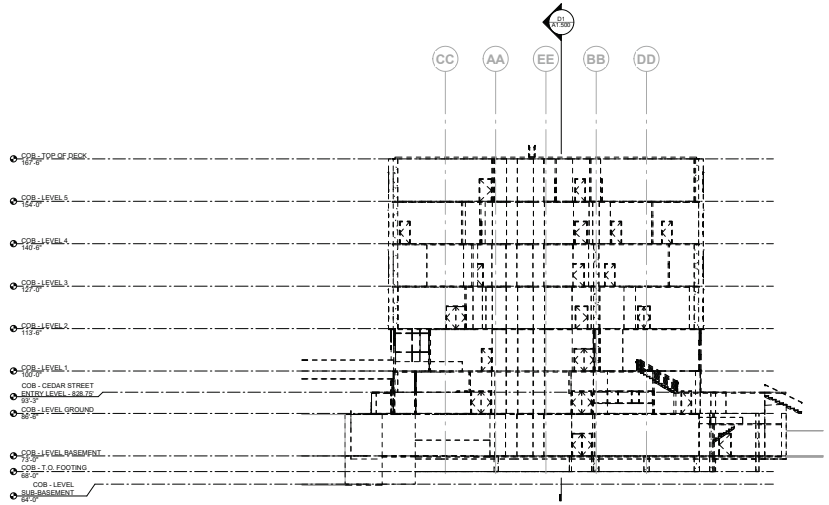


D1 COB - DEMOLITION WALL SECTION
1/16" = 1'-0"



E5 TYPICAL WATERPROOFING SECTION AT CONCRETE CAP
1" = 1'-0"



F5 COB - DEMOLITION WALL SECTION
1/16" = 1'-0"

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NOTE: SEE A5.400 SERIES DRAWINGS FOR EXTERIOR WALL ASSEMBLIES

Revisions

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Check: Checker

COB - DEMOLITION WALL SECTIONS

Scale: 1/16" = 1'-0"

A1.500

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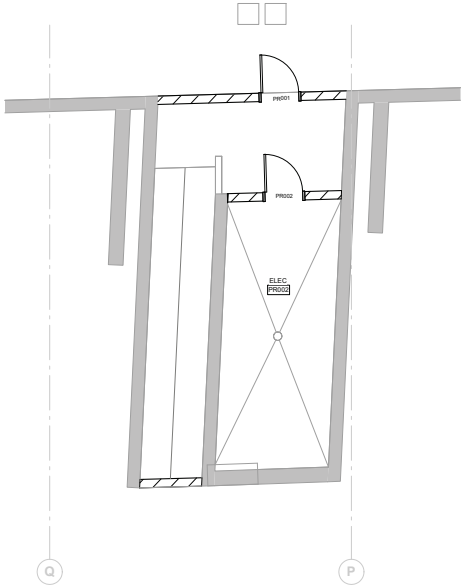
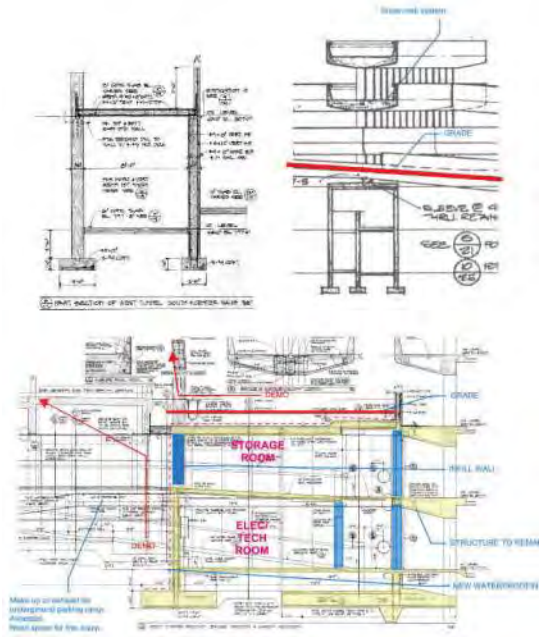
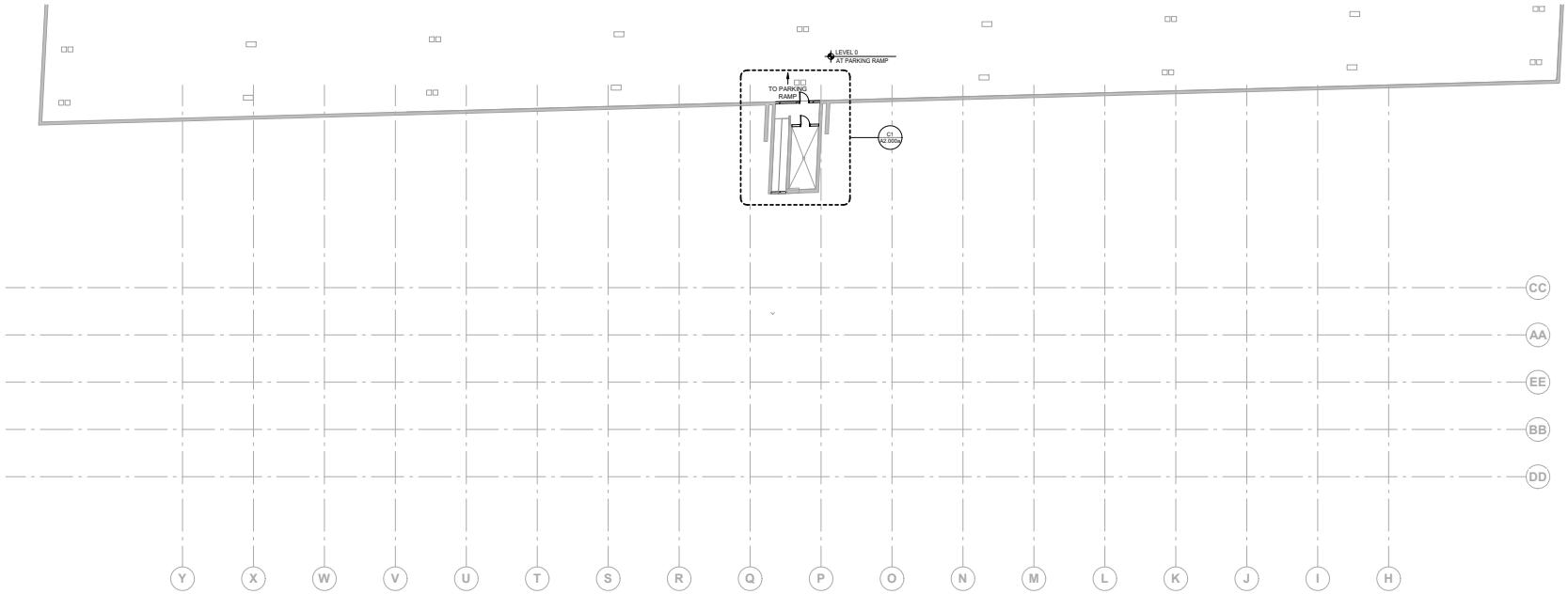


C1 COB - LEVEL SUB-BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"



PARKING RAMP - LEVEL 0 - REFERENCE



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F1 COB - LEVEL SUB-BASEMENT - FLOOR PLAN
1/16" = 1'-0"

FLOOR PLAN GENERAL NOTES

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2. ALL GWB / METAL STUD WALLS ARE TO BE 5 INCHES THICK UNLESS OTHERWISE NOTED.
3. ALL CONCRETE BLOCK WALLS ARE TO BE 8 INCHES THICK UNLESS OTHERWISE NOTED.
4. COORDINATE SIZE AND LOCATION OF ALL DUCT AND SHAFT OPENINGS IN WALLS AND FLOORS W/ MECH. AND ELEC. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS. SEE LINTEL SCHEDULE.
5. SET FLOOR DRAINS 3/4" BELOW FINISHED CONCRETE FLOORS UNLESS OTHERWISE NOTED. PROVIDE CONSISTENT SLOPE FROM WALL TO DRAIN BY SLOPING CONCRETE, MIN. 1/4" PER FOOT.
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7. ALL DOOR / SIDELITE OPENINGS TO BEGIN 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
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9. FIRE RATED WALLS ARE INDICATED ON CODE PLANS.

FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

02 CABINET UNIT HEATER. SEE DETAIL. SEE MECH. FOR SPECIFICATIONS, COORDINATE LOCATION WITH MECHANICAL

03 CARD READER - SEE ELECTRICAL

04 STEEL PIPE RAIL / RAILING, FIELD PAINTED

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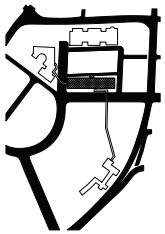

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COB - LEVEL SUB-BASEMENT - FLOOR PLAN

Scale: As Indicated

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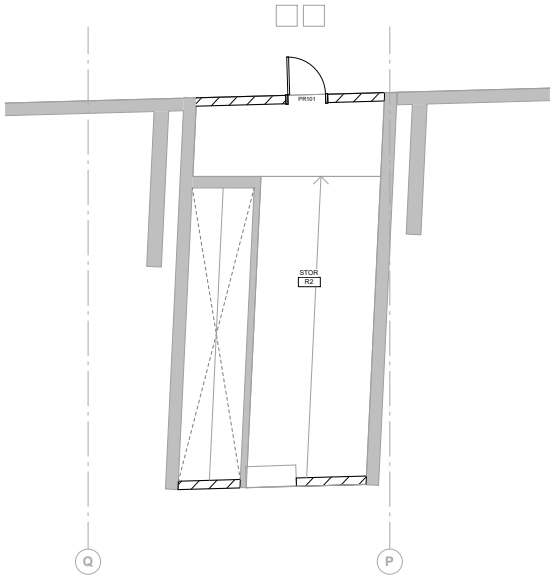

C1 COB - LEVEL BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"

ACCESS DOORS:
Type J-AL-Channel Frame H-20 Loading

Constructed with a channel frame for use in exterior applications or in those situations where there is concern of water or other liquids entering the access opening. Type J-AL H20 floor access doors are reinforced for AASHTO H-20 wheel loading and feature aluminum construction, type 316 stainless steel hardware, and engineered lift assistance for easy one-hand operation. Available in a number of standard single leaf and double leaf (Type JD-AL H20) sizes and special sizes can be specified.

https://www.bilco.com/ProductDetail/Type-J-AL-Channel-Frame-H-20-Loading-42

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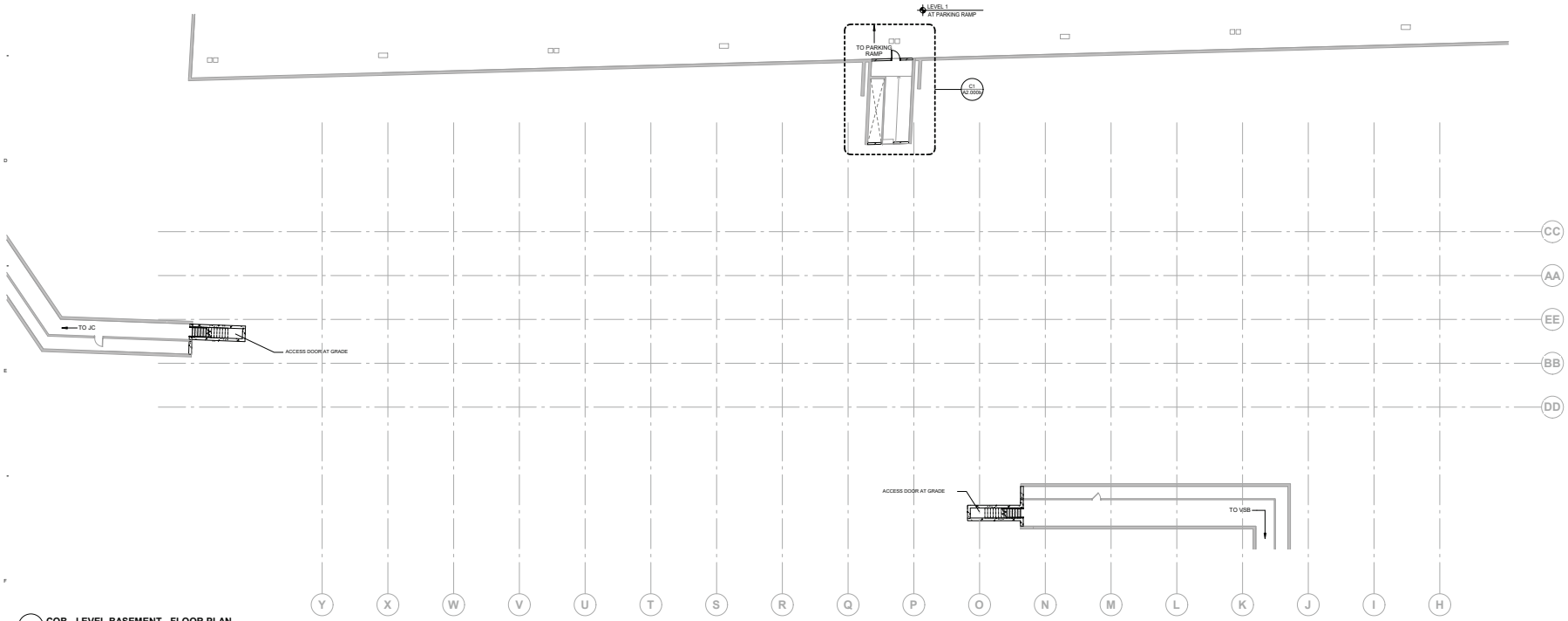
04 STEEL PIPE RAIL / RAILING, FIELD PAINTED



F1 COB - LEVEL BASEMENT - FLOOR PLAN
1/16" = 1'-0"

A

CENTENNIAL OFFICE BUILDING DEMOLITION

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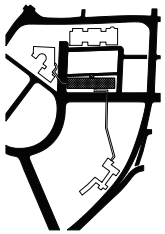

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COB - LEVEL BASEMENT - FLOOR PLAN

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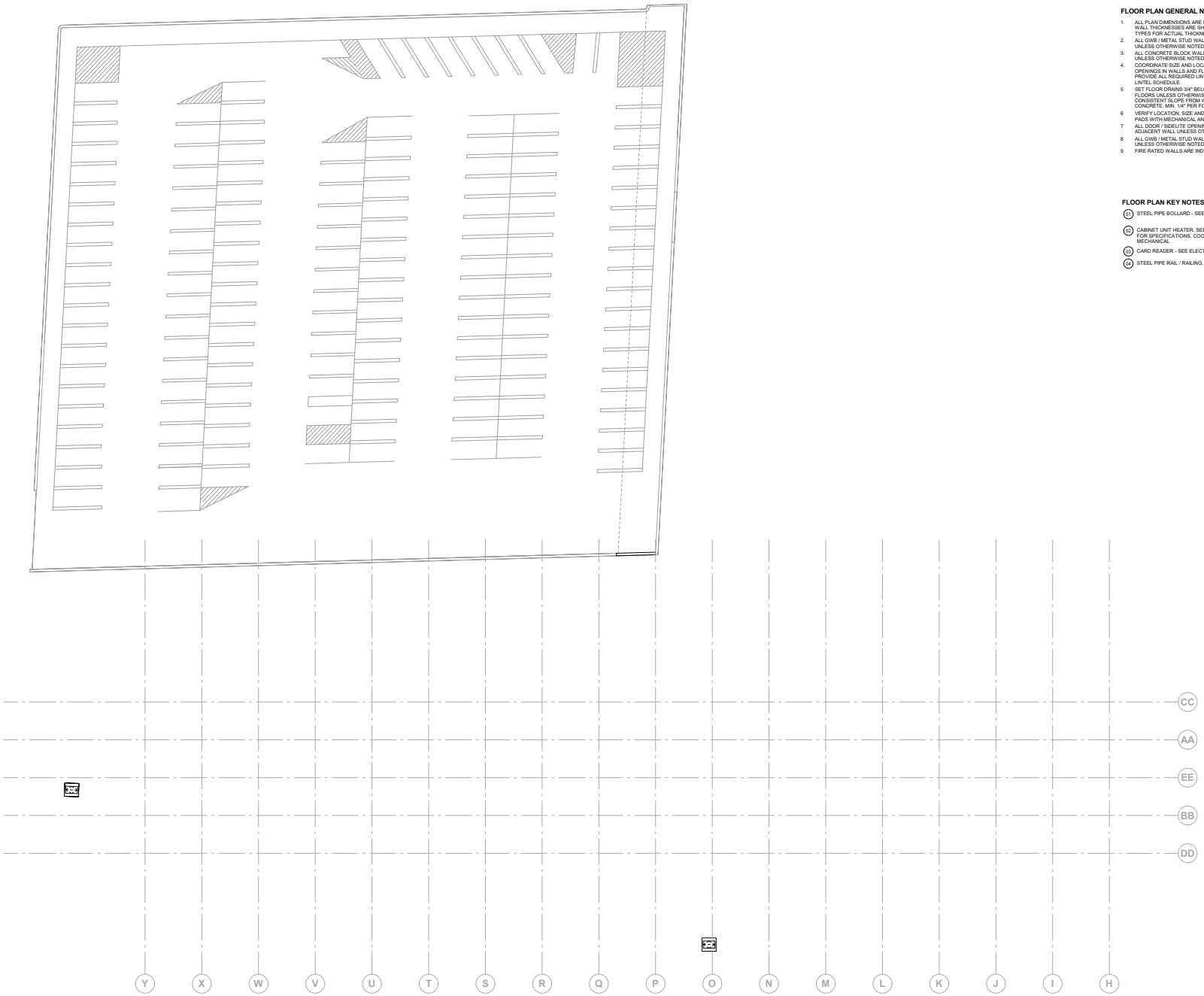

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F1 SITE PLAN
1/16" = 1'-0"
0 12' 24'

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FLOOR PLAN KEY NOTES:

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03 CARD READER - SEE ELECTRICAL

04 STEEL PIPE RAIL / RAILING, FIELD PAINTED

CENTENNIAL OFFICE BUILDING DEMOLITION

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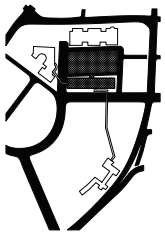

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COB - SITE PLAN

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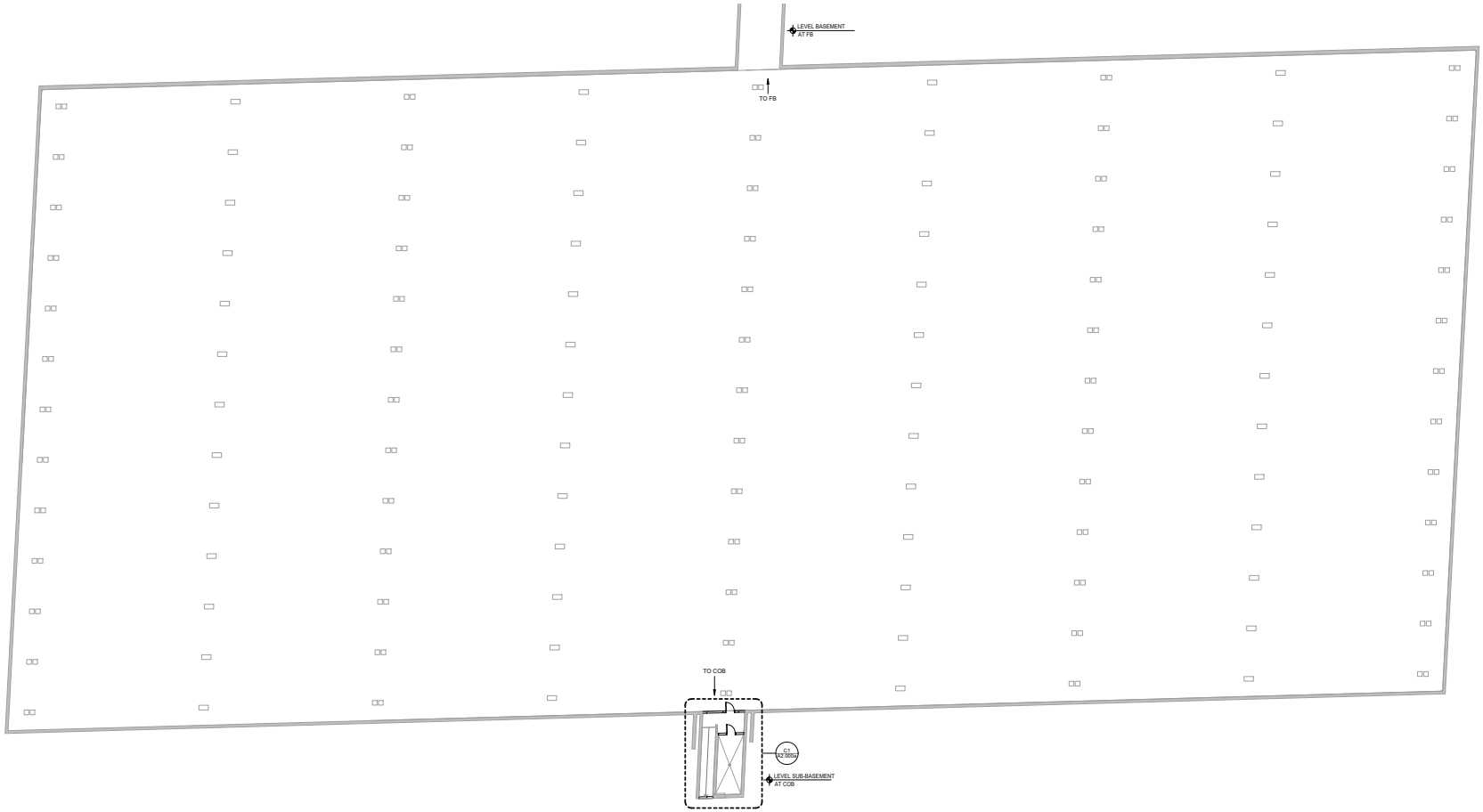

F1 PARKING RAMP - LEVEL 0 - FLOOR PLAN
1/16" = 1'-0"
0 12' 24'

CENTENNIAL OFFICE BUILDING DEMOLITION

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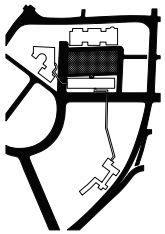

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PARKING RAMP - LEVEL 0 - FLOOR PLAN

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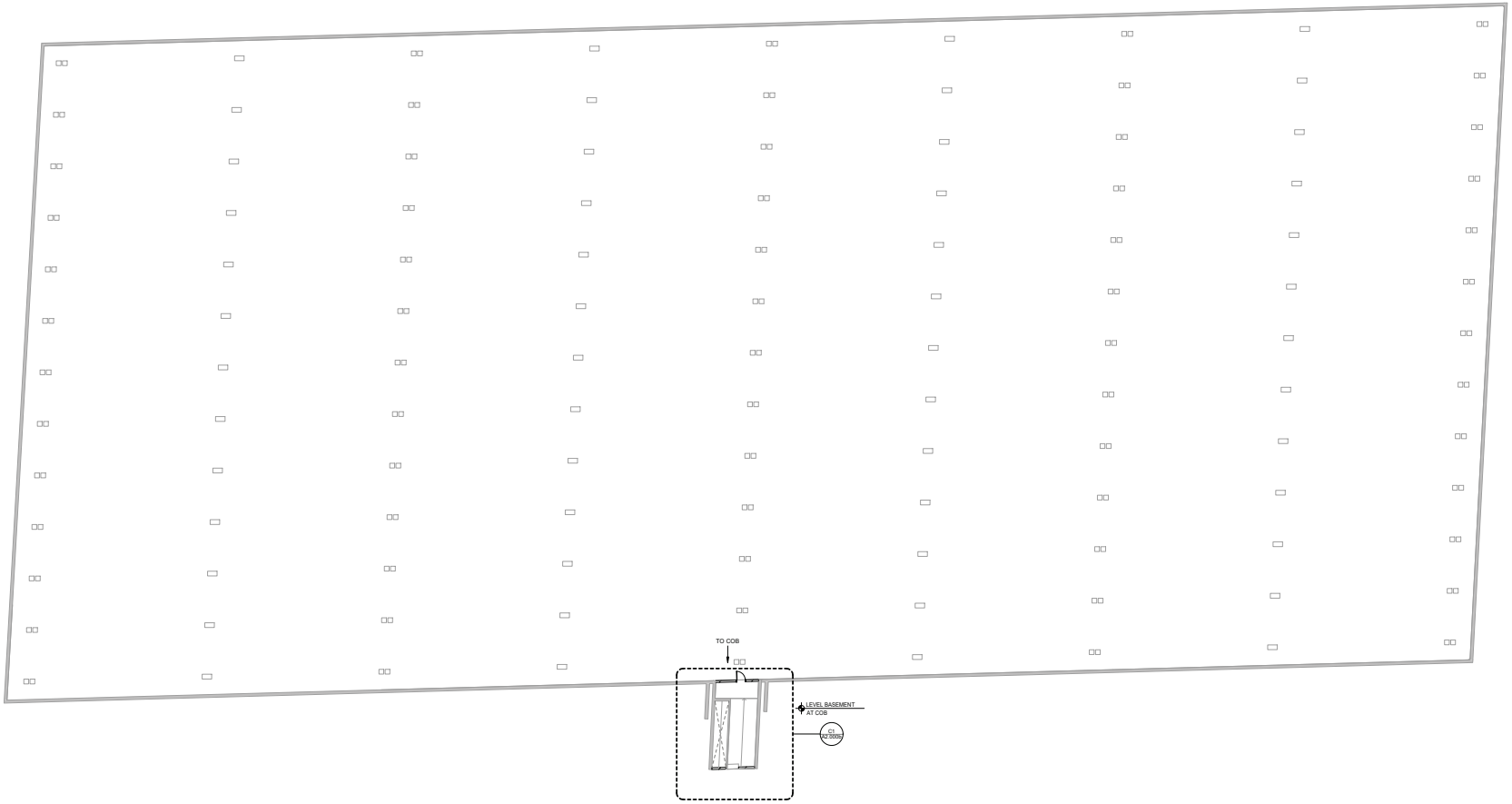

F1 PARKING RAMP - LEVEL 1 - FLOOR PLAN
1/16" = 1'-0"
0 12" 24"

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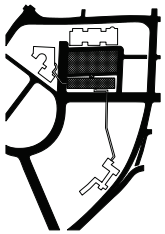

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PARKING RAMP - LEVEL 1 - FLOOR PLAN

Scale: As Indicated

A2.101

SCHEMATIC DESIGN ESTIMATE SET
NOT FOR CONTRUCTION

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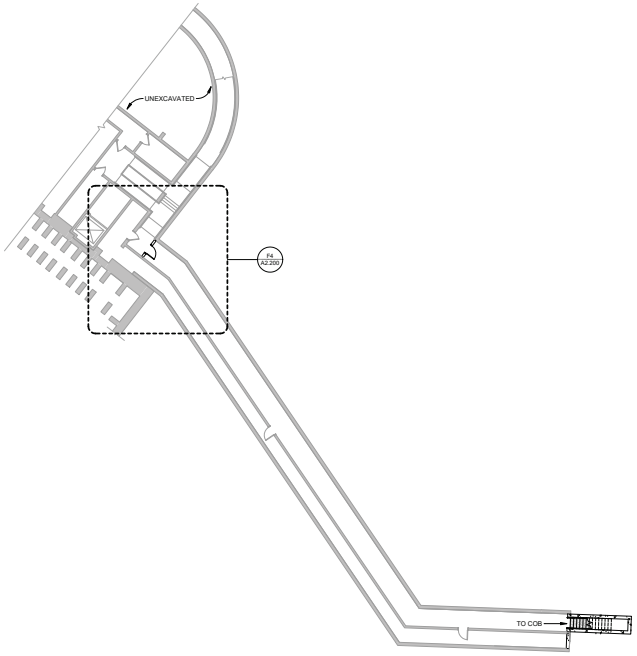
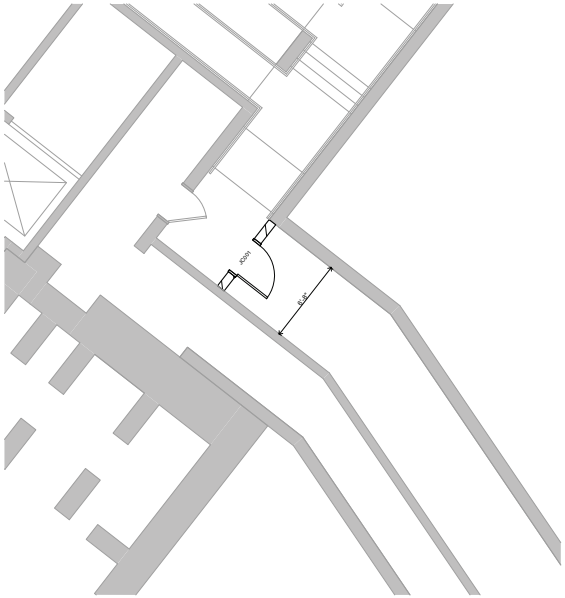
MN



F1 JC - LEVEL BASEMENT - FLOOR PLAN
1/16" = 1'-0"
0 12" 24"



F4 JC - LEVEL BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"
0 2' 6'

FLOOR PLAN GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL, SEE WALL TYPES FOR ACTUAL THICKNESS.
2. ALL GWB / METAL STUD WALLS ARE TO BE 5 INCHES THICK UNLESS OTHERWISE NOTED.
3. ALL CONCRETE BLOCK WALLS ARE TO BE 8 INCHES THICK UNLESS OTHERWISE NOTED.
4. COORDINATE SIZE AND LOCATION OF ALL DUCT AND SHAFT OPENINGS IN WALLS AND FLOORS W/ MECH. AND ELEC. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS. SEE LINTEL SCHEDULE.
5. SET FLOOR DRAINS 3/4" BELOW FINISHED CONCRETE FLOORS UNLESS OTHERWISE NOTED. PROVIDE CONSISTENT SLOPE FROM WALL TO DRAIN BY SLOPING CONCRETE, MIN. 1/4" PER FOOT.
6. VERIFY LOCATION, SIZE AND QUANTITY OF ALL EQUIPMENT PADS WITH MECHANICAL AND ELECTRICAL.
7. ALL DOOR / SIDELITE OPENINGS TO BEGIN 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
8. ALL GWB / METAL STUD WALLS ARE CENTERED ON GRID UNLESS OTHERWISE NOTED.
9. FIRE RATED WALLS ARE INDICATED ON CODE PLANS.

FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

02 CABINET UNIT HEATER. SEE DETAIL ___ SEE MECH. FOR SPECIFICATIONS, COORDINATE LOCATION WITH MECHANICAL

03 CARD READER - SEE ELECTRICAL

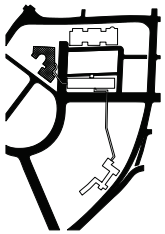
04 STEEL PIPE RAIL / RAILING, FIELD PAINTED

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
ST PAUL, MN 55155

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
St. Paul, Minnesota 55101
woldae.com | 651 227 7773



KEY PLAN

Revisions		
Description	Date	Mark

Comm: 252071
Date: Issue Date
Drawn: KS
Check: JW
North

JC - LEVEL BASEMENT - FLOOR PLAN

Scale: As Indicated

A2.200

A

SCHEMATIC DESIGN ESTIMATE SET
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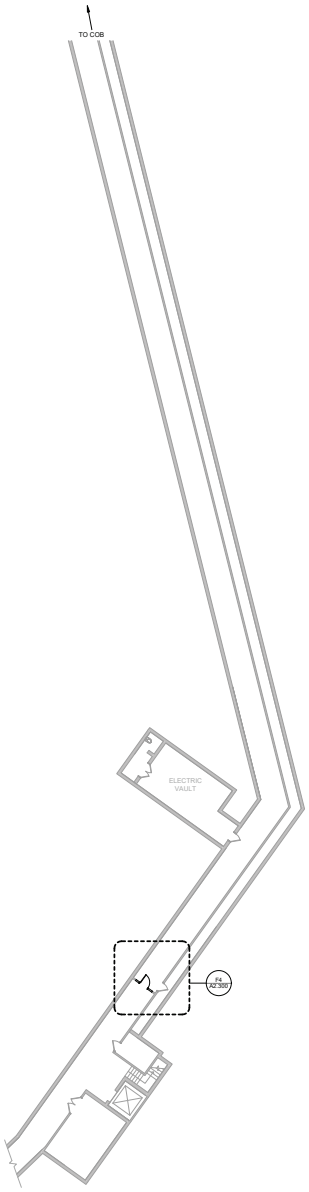
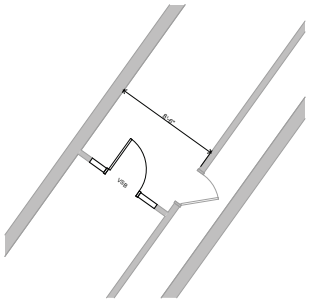


F1 VSB - LEVEL BASEMENT - FLOOR PLAN
1/16" = 1'-0"
0 12 24



F4 VSB - LEVEL BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"
0 3 6

A

FLOOR PLAN GENERAL NOTES

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FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

02 CABINET UNIT HEATER, SEE DETAIL. SEE MECH. FOR SPECIFICATIONS, COORDINATE LOCATION WITH MECHANICAL

03 CARD READER - SEE ELECTRICAL

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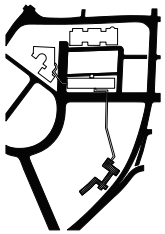

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: Issue Date
Drawn: KS
Check: JW
North

VSB - LEVEL BASEMENT - FLOOR PLAN

Scale: As Indicated

A2.300

SCHEMATIC DESIGN ESTIMATE SET
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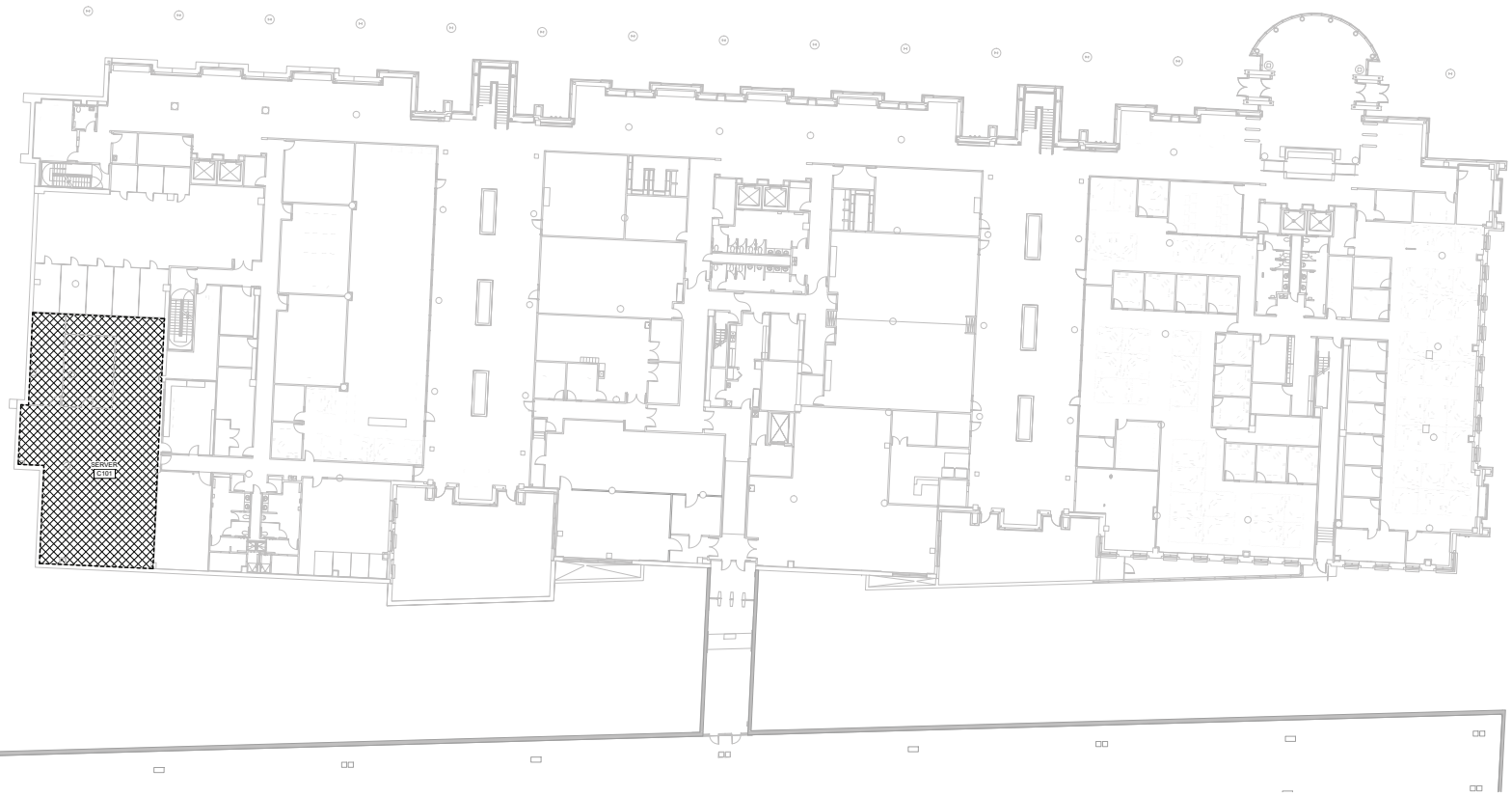

F1 FLOOR PLAN - LEVEL BASEMENT
1/16" = 1'-0"
0 12' 24'

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1. ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL, SEE WALL TYPES FOR ACTUAL THICKNESS.
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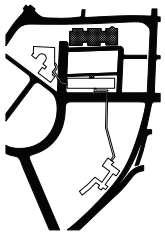

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: Issue Date
Drawn: KS
Check: JW
North

FB - LEVEL BASEMENT - FLOOR PLAN

Scale: As Indicated

A2.400

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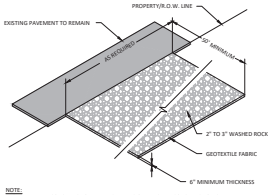
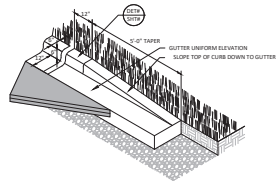


NOTE:
PROVIDE WHERE CONSTRUCTION TRAFFIC ENTERS OR EXITS THE CONSTRUCTION SITE

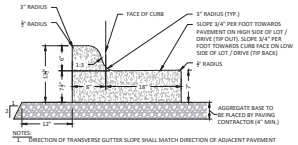
DET# SHT# ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



DET# SHT# B-612 CURB TERMINATOR

NOT TO SCALE

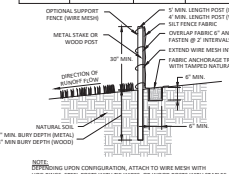


NOTES:
1. DIRECTION OF TRANSVERSE GUTTER SLOPE SHALL MATCH DIRECTION OF ADJACENT PAVEMENT SLOPE.
2. CONSTRUCT WITH CURBING MACHINE.
3. AT CURB INLET CATCH BASINS, ADJUST CASTING TO BE 1" BELOW GUTTER GRADE. SLOPE GUTTER 5' EACH SIDE OF CATCH BASIN. PROVIDE POSITIVE DRAINAGE TO CATCH BASINS.

DET# SHT# B-618 CURB AND GUTTER

NOT TO SCALE

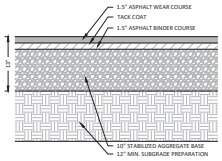
NORMAL USE	POSTS: (IF USED WITHOUT SUPPORT FENCE)	WOOD: 2" SQ. (MIN) @ 4' (MAX) SPACING	METAL: 0.95 lbs/ft (MIN.) @ 6' (MAX) SPACING



NOTE:
DEPENDING UPON CONFIGURATION, ATTACH TO WIRE MESH WITH HOG RINGS, STEEL POSTS WITH TIE WIRES, OR WOOD POSTS WITH STAPLES

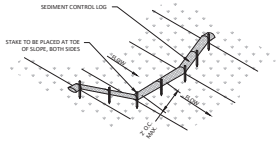
DET# SHT# SILT FENCE

NOT TO SCALE

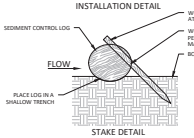


DET# SHT# MEDIUM DUTY ASPHALT PAVEMENT

NOT TO SCALE



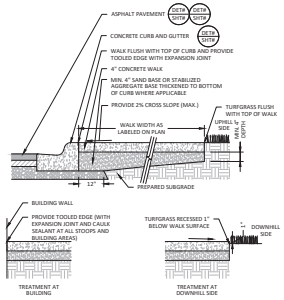
INSTALLATION DETAIL



STAKE DETAIL

DET# SHT# SEDIMENT CONTROL LOG

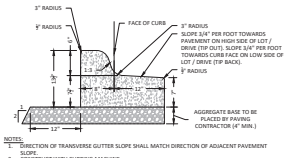
NOT TO SCALE



DET# SHT# CONCRETE WALK

NOT TO SCALE

C



NOTES:
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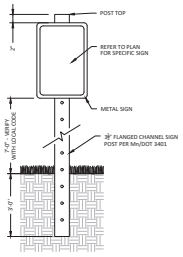
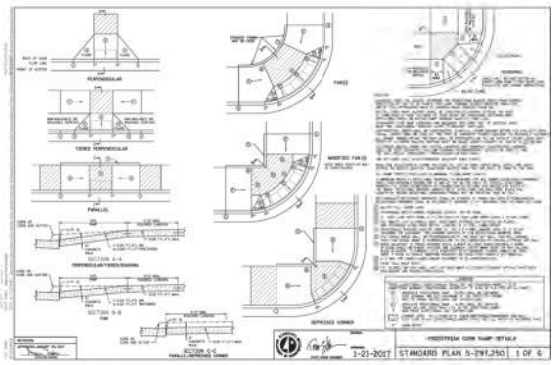
DET# SHT# B-612 CURB AND GUTTER

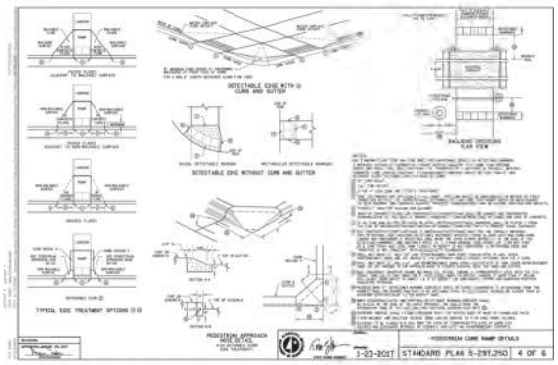
NOT TO SCALE

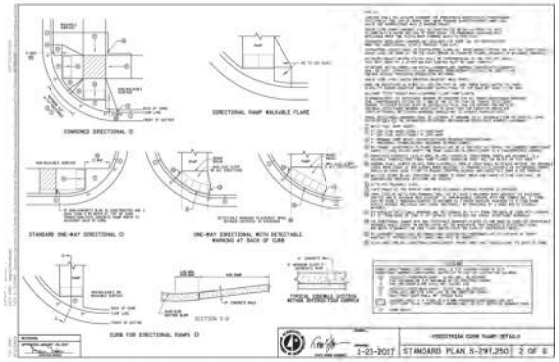


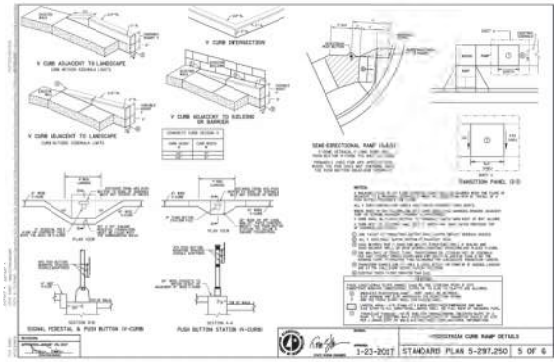
DET# SHT# TRAFFIC SIGN AND POST IN GRASS

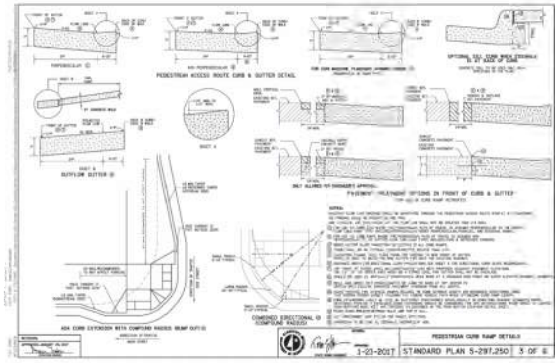
NOT TO SCALE

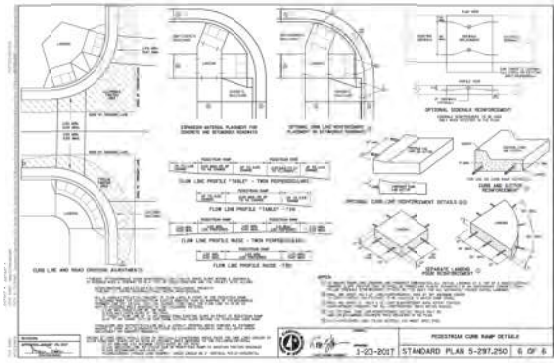












CENTENNIAL OFFICE BUILDING

658 CEDAR STREET
SAINT PAUL, MN 55155

WOLD ARCHITECTS AND ENGINEERS

BOLTON & MENK
3300 FERNBROOK LANE NORTH, SUITE 300
PLYMOUTH, MN 55447
Phone: (763) 544-7129
Email: plymouth@bolton-menk.com
www.bolton-menk.com

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 PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

WILLIAM J. DIEDE
Registration Number: 59532 Date: 10/08/2024

Revisions		
Description	Date	Num

Comm: 232356
Date: 10/08/2024
Drawn: WJD
Check: DAR
North

DETAILS

Scale: As Indicated

C5.01

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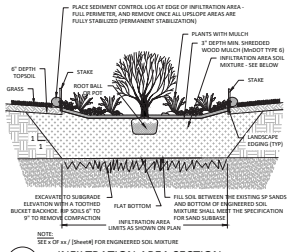
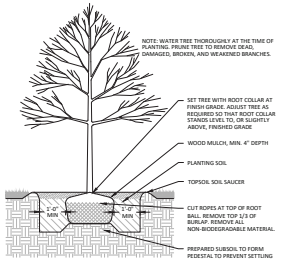


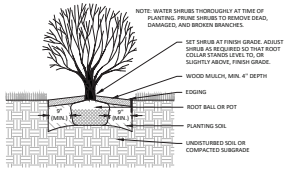
DET# SHT# INFILTRATION AREA SECTION

NOT TO SCALE



DET# SHT# DECIDUOUS TREE

NOT TO SCALE



DET# SHT# SHRUB

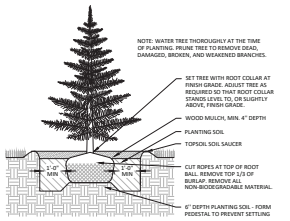
NOT TO SCALE

INFILTRATION AREA CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

1. INFILTRATION AREA LIMITS SHALL BE SURVEYED AND A VISUAL BARRIER, SUCH AS ORANGE SNOW FENCE, SHALL BE PLACED AROUND THE FULL PERIMETER TO KEEP ALL CONSTRUCTION TRAFFIC, EQUIPMENT AND MATERIAL STOCKPILES OUT OF THE PROPOSED INFILTRATION AREAS. THE VISUAL BARRIER MUST BE INSTALLED BEFORE NEW CONSTRUCTION BEGINS AND SHALL BE MAINTAINED THROUGH THE DURATION OF THE PROJECT.
2. DELIVER SAMPLE MATERIALS ONSITE FOR PRIOR APPROVAL. PRIOR TO BEGINNING THE INSTALLATION, SUFFICIENT MATERIAL QUANTITIES SHALL BE ONSITE TO COMPLETE THE INSTALLATION. STABILIZE EXPOSED SOIL AREAS WITHOUT DELAY.
3. CARE MUST BE TAKEN TO AVOID CONTAMINATION OF ENGINEERED SOILS WITH SEDIMENT, IN-SITU OR TOPSOIL DURING AND AFTER INSTALLATION. MATERIALS MUST BE SEGREGATED.
4. INSTALLATION WITH DRY SOIL CONDITIONS IS CRITICAL TO PREVENT SMEARING AND COMPACTION. SCHEDULE WORK FOR DRY WEATHER. IF SOIL BECOMES WET, WORK MUST STOP UNTIL SOIL DRYS. ROTOTILL SOIL MIXTURE AND PERFORM STABILIZATION OF PERIMETER SLOPES WITH TURF SOD MUST COMPLETED BEFORE THE NEXT PRECIPITATION EVENT. TURF SOD PLACED IN FLOW PATHS SHALL BE SECURED WITH AT LEAST 6 STAKES PER SQUARE YARD. PLACE STAKES ALONG OPHILL SEAM EDGES TO PREVENT UNDERMINING FLOWS UNTIL SOD ROOTS ESTABLISH.
5. DO NOT LEAVE STORMWATER AREAS AND / OR PERIMETER SLOPES EXPOSED OVERNIGHT. SECURE THE SITE FROM RISK OF PRECIPITATION DAMAGE AT THE END OF EVERY WORK DAY. IN THE EVENT OF RAIN, TAKE ACTION TO DIVERT STORMWATER AWAY FROM THE WORK AREA AND TEMPORARILY COVER OF ALL EXPOSED SOILS WITH WOVEN GEOTEXTILE FABRIC OR IMPERMEABLE SHEETING.
6. FIELD OBSERVATION OF EXCAVATION AND SOIL PLACEMENT IS REQUIRED. NOTIFY GEOTECHNICAL ENGINEER PRIOR TO DIGGING. USE BACKHOE WITH TOOTH BUCKET FOR CELL EXCAVATION TO AVOID COMPACTING OR SMEARING OF SOILS. DO NOT ENTER CELL WITH EXCAVATOR. USE TOOTHED BUCKET TO SCARIFY BOTTOM OF EXCAVATION AND SIDES OF CELL TO A DEPTH TO REMOVE COMPACTION. GENTLY MIX THE FIRST LIFT OF ENGINEERED SOILS WITH THE UNDERLYING UNDISTURBED SOILS TO AVOID STRATIFICATION AND PROMOTE PERMEABILITY. USE EXCAVATOR BUCKET TO PLACE MATERIALS. CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED INTO THE STORMWATER AREAS. LEVELING AND FINAL GRADING WITHIN THE CELL MUST BE COMPLETED BY HAND.
7. INFILTRATION AREA SOIL MIX SHALL BE MINNESOTA STORMWATER MANUAL A.5.2 MIX B. ENHANCED FILTRATION BLEND MATERIAL SHALL BE 50% MODIFIED SAND, 30% TOPSOIL, 20% COMPOST. TOPSOIL SHALL BE MnDOT 3890 GRADE 2 (LAW LITTER COMPOST). THE MATERIAL SUPPLIER SHALL PROVIDE DOCUMENTATION THAT THE COMPOST HAS BEEN SAMPLED AND TESTED AS REQUIRED BY THE SEAL OF TESTING ASSURANCE (STA) PROGRAM OF THE UNITED STATES COMPOSTING COUNCIL (USCC) AND A GRADATION SIEVE ANALYSIS FOR THE WASHED SAND. THE ENGINEERED SOIL SHALL NOT CONTAIN ANY TOPSOIL OR FILTER AGGREGATE WITH FINES.
8. INSTALL PLANTINGS BY HAND.
9. INSTALLED SOD AND PLANTINGS REQUIRE A TOTAL OF 1" OF WATER PER WEEK AND ACTIVE WEED MANAGEMENT UNTIL WELL ESTABLISHED. INCLUDE ALL WATERING COSTS IN THE BID. CONSTRUCT A TEMPORARY IRRIGATION SYSTEM, CONSISTING OF ABOVE GROUND HOSES, PIPING, VALVES, ETC., FOR WATERING UNTIL VEGETATION IS ESTABLISHED. DO NOT USE A WATER TRUCK AS THE FORCE OF THE WATER WILL ADVERSELY AFFECT THE STORMWATER AREA SOILS.
10. REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS SHALL BE DONE BY HAND OR, IF SELF-PROPELLED EQUIPMENT IS REQUIRED, FROM OUTSIDE THE PERIMETER OF THE INFILTRATION AREAS.

DET# SHT# INFILTRATION AREA NOTES

NOT TO SCALE



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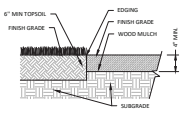

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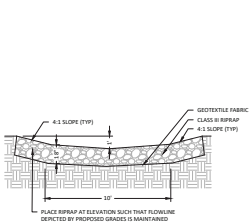
NOT TO SCALE



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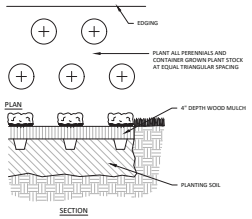
NOT TO SCALE



DET# SHT# PERENNIALS AND CONTAINER GROWN PLANT STOCK

NOT TO SCALE

MN

C

CENTENNIAL OFFICE BUILDING

658 CEDAR STREET
SAINT PAUL, MN 55155

Wold

WOLD ARCHITECTS AND ENGINEERS

BOLTON & MENK

3300 FERNBROOK LANE NORTH, SUITE 300
PLYMOUTH, MN 55447
Phone: (763) 544-7129
Email: plymouth@bolton-menk.com
www.bolton-menk.com

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 **PROFESSIONAL ENGINEER** under the laws of the State of **MINNESOTA**

WILLIAM J. DIEDE
Registration Number **59532** Date **10/08/2024**

Revisions		
Description	Date	Num

Comm: **232356**
Date: **10/08/2024**
Drawn: **WJD**
Check: **DAR**
North

DETAILS

Scale: **As Indicated**

C5.02

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Appendix B: Natural Resources

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

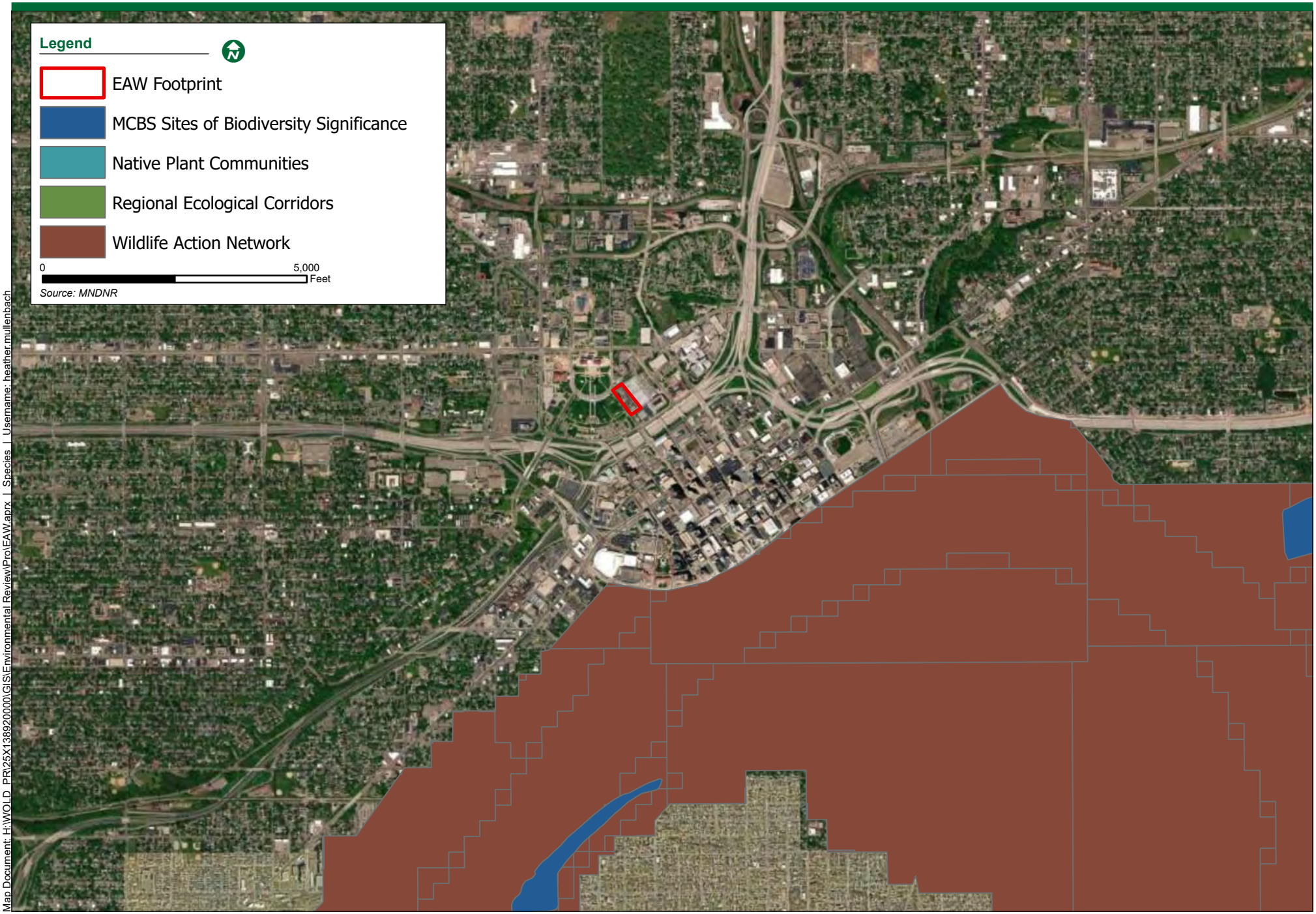
Centennial Office Building Demolition

Wold Architects and Engineers

Species

June 2025

BOLTON & MENK



Map Document: H:\WOLD_PR\25X138920000\GIS\Environmental Review\Pro\EAW.aprx | Species | Username: heather.mullenbach

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Centennial Office Building Demolition

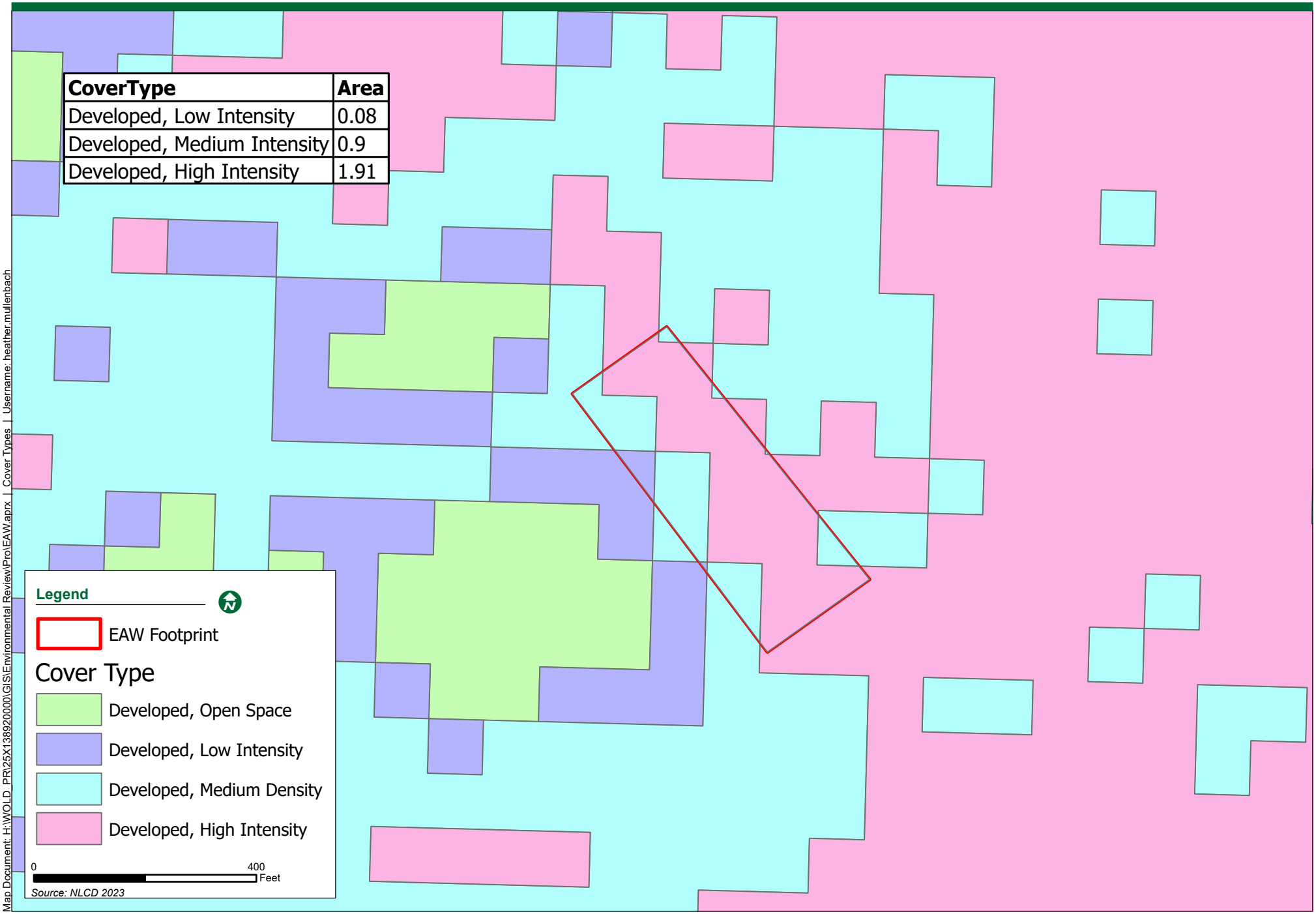
Wold Architects and Engineers

Cover Types

June 2025

BOLTON & MENK

CoverType	Area
Developed, Low Intensity	0.08
Developed, Medium Intensity	0.9
Developed, High Intensity	1.91



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Map Document: H:\WOLD_PR\25X138920000\GIS\Environmental Review\Pro\EAW.aprx | Groundwater | Username: heather.mullenbach

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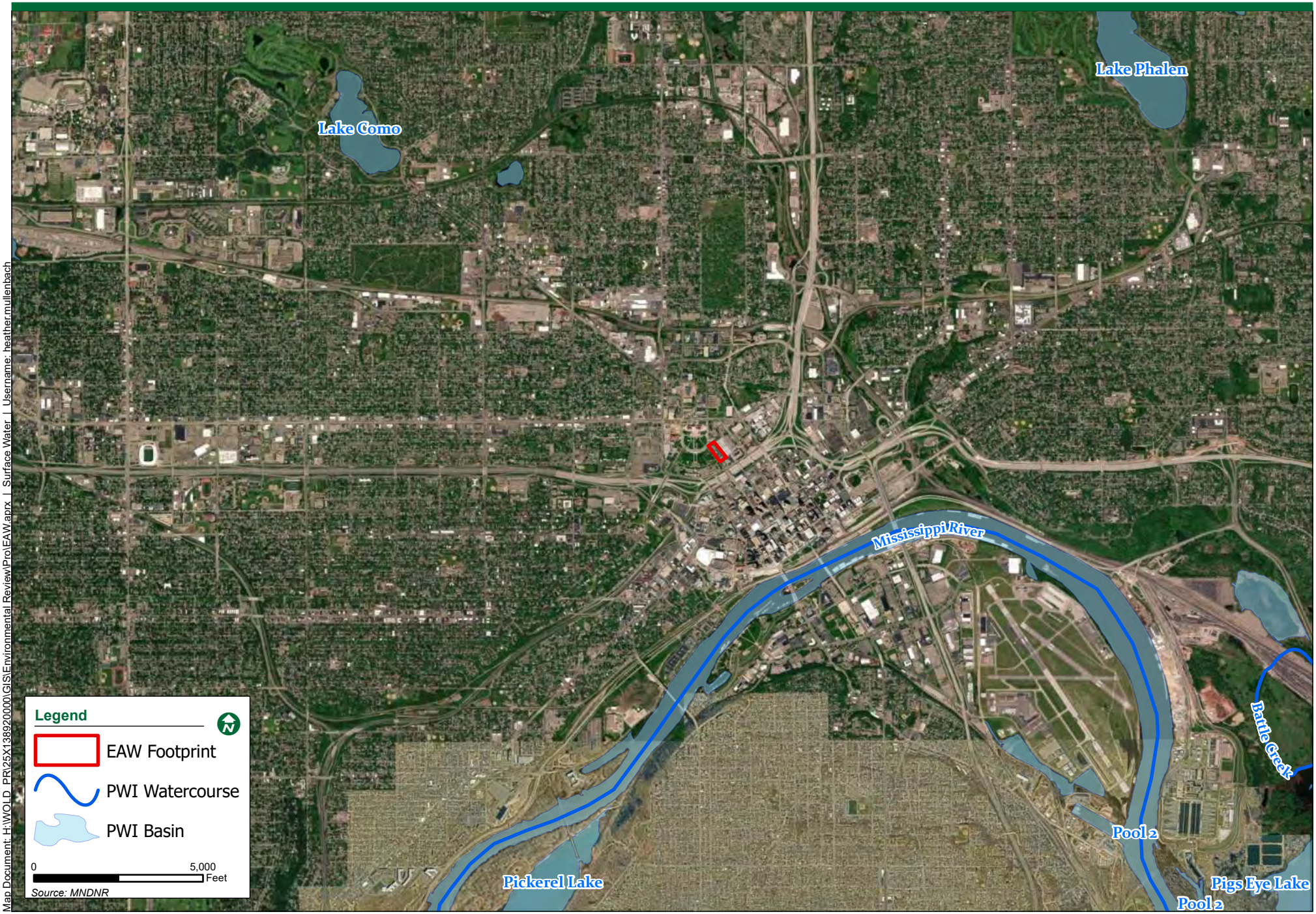

Map Document: H:\WOLD_PR\25X138920000\GIS\Environmental Review\Pro\EAW.aprx | Surface Water | Username: heather.mullenbach

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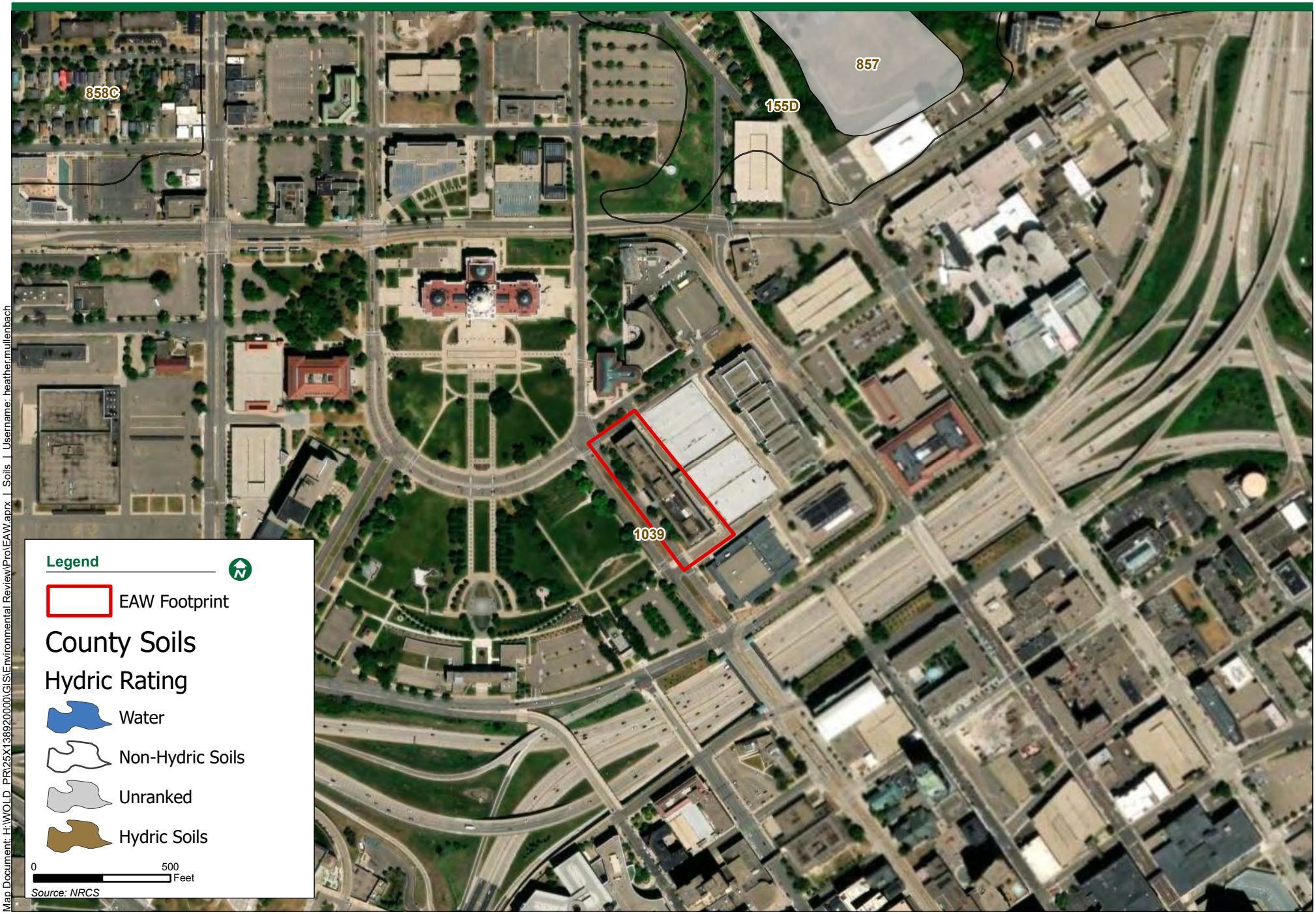

Map Document: H:\WOLD_PR\25X138920000\GIS\Environmental Review\Pro\EAW.aprx | Soils | Username: heather.mullenbach

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Minnesota Department of Natural Resources
Division of Ecological & Water Resources
500 Lafayette Road, Box 25
St. Paul, MN 55155-4025

August 25, 2025

Heather Mullenbach
Bolton & Menk, Mankato Minnesota

RE: Natural Heritage Review of the proposed Centennial Office Building Demolition, St. Paul, MN (25X.138920), T29N R22W Section 31; Ramsey County

Dear Heather Mullenbach,

For all correspondence regarding the Natural Heritage Review of this project please include the project ID **MCE-2025-00574** in the email subject line.

As requested, the Minnesota Natural Heritage Information System has been reviewed to determine if the proposed project has the potential to impact any rare species or other significant natural features. Based on the project details provided with the request, the following rare features may be impacted by the proposed project:

State-listed Species

- The Natural Heritage Information System (NHIS) tracks bat roost trees and hibernacula plus some acoustic data, but this information is not exhaustive. Even if there are no bat records listed nearby, all of Minnesota's bats, including the federally endangered northern long-eared bat (*Myotis septentrionalis*), can be found throughout Minnesota. During the active season (approximately April-November) bats roost underneath bark, in cavities, in crevices of both live and dead trees, and also in crevices in buildings. Tree or building removal can negatively impact bats by destroying roosting habitat, especially during the pup rearing season when females are forming maternity roosting colonies and the pups cannot yet fly. To minimize these impacts, **the DNR recommends that tree and building removal not be started from June 1 through August 15.**

- Please visit the DNR Rare Species Guide for more information on the habitat use of these species and recommended measures to avoid or minimize impacts.

Federally Protected Species

- The area of interest overlaps with a U.S Fish and Wildlife Service (USFWS) Rusty Patched Bumble Bee High Potential Zone. The rusty patched bumble bee *(Bombus affinis)* is federally listed as endangered and is likely to be present in suitable habitat within High Potential Zones. From April through October this species uses underground nests in upland grasslands, shrublands, and forest

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edges, and forages where nectar and pollen are available. From October through April the species overwinters under tree litter in upland forests and woodlands. The rusty patched bumble bee may be impacted by a variety of land management activities including, but not limited to, prescribed fire, tree-removal, haying, grazing, herbicide use, pesticide use, land-clearing, soil disturbance or compaction, or use of non-native bees. If applicable, **the DNR recommends reseeding disturbed soils with native species of grasses and forbs using BWSR Seed Mixes or MnDOT Seed Mixes.**

To ensure compliance with federal law, please conduct a federal regulatory review using the U.S. Fish and Wildlife Service's online Information for Planning and Consultation (IPaC) tool. Please note that all projects, regardless of whether there is a federal nexus, are subject to federal take prohibitions. The IPaC review will determine if prohibited take is likely to occur and, if not, will generate an automated letter. The USFWS RPBB guidance provides guidance on avoiding impacts to rusty patched bumble bee and a key for determining if actions are likely to affect the species; the determination key can be found in the appendix.

Environmental Review and Permitting

- The Environmental Assessment Worksheet should address whether the proposed project has the potential to adversely affect the above rare features and, if so, it should identify specific measures that will be taken to avoid or minimize disturbance. Sufficient information should be provided so the DNR can determine whether a permit to take will be needed for any of the above protected species.
- Please include a copy of this letter and the MCE-generated Final Project Report in any state or local license or permit application. Please note that measures to avoid or minimize disturbance to the above rare features may be included as restrictions or conditions in any required permits or licenses.

The Natural Heritage Information System (NHIS), a collection of databases that contains information about Minnesota’s rare natural features, is maintained by the Division of Ecological and Water Resources, Department of Natural Resources. The NHIS is continually updated as new information becomes available and is the most complete source of data on Minnesota's native plant communities, rare species, and other rare features. However, the NHIS is not an exhaustive inventory and does not contain the locations of all rare features in the state. Therefore, ecologically significant features for which we have no records may exist within the project area. If additional information becomes available regarding rare features in the vicinity of the project, further review may be necessary.

For environmental review purposes, the results of this Natural Heritage Review are valid for one year; the results are only valid for the project location and project description provided with the request. **If project details change or the project has not occurred within one year, please resubmit the project for review within one year of initiating project activities.** Resubmit by selecting *Clone Project as Draft* on the project page in MCE.

The Natural Heritage Review does not constitute project approval by the Department of Natural Resources. Instead, it identifies issues regarding known occurrences of rare features and potential impacts to these rare features. Visit Natural Heritage Review for additional information regarding this process, survey guidance, and

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other related information. For information on the environmental review process or other natural resource concerns, please contact your DNR Regional Environmental Assessment Ecologist.

Thank you for consulting us on this matter and for your interest in preserving Minnesota's rare natural resources.

Sincerely,

James Drake

Natural Heritage Review Specialist
james.f.drake@state.mn.us

Cc: Melissa Collins

Conservation Planning Report: Centennial Office Building Demolition, St. Paul, MN (25X.138920)

This document is intended for planning purposes only for the area of interest defined by the user. The report identifies ecologically significant areas documented within the defined area of interest plus any additional search distance indicated below. These ecologically significant areas can be viewed in the Explore Tab of the Minnesota Conservation Explorer. Please visit MN Geospatial Commons for downloadable GIS data.

This document does not meet the criteria for a Natural Heritage Review. If a Natural Heritage Review is needed, please define an Area of Interest in the Explore Tab and click on the Natural Heritage Review option.

This document does not include known occurrences of state-listed or federally listed species.

MBS Sites of Biodiversity Significance

Search distance = 330 feet

Minnesota Biological Survey (MBS) Sites of Biodiversity Significance are areas with varying levels of native biodiversity that may contain high quality native plant communities, rare plants, rare animals, and/or animal aggregations. A Biodiversity Significance Rank is assigned on the basis of the number of rare species, the quality of the native plant communities, size of the site, and context within the landscape. MBS Sites are ranked Outstanding, High, or Moderate. Areas ranked as Below were found to be disturbed and are retained in the layer as negative data. These areas do not meet the minimum biodiversity threshold for statewide significance but may have conservation value at the local level as habitat for native plants and animals, corridors for animal movements, buffers surrounding higher quality natural areas, or as areas with high potential for restoration of native habitat. The DNR recommends avoidance of MBS Sites of Biodiversity Significance ranked High or Outstanding.

Wetlands within MBS Sites of Outstanding or High Biodiversity Significance may be considered Rare Natural Communities under the Wetland Conservation Act. For technical guidance on Rare Natural Communities, please visit WCA Program Guidance and Information.

For more information please visit MBS Sites of Biodiversity Significance.

SEARCH RESULTS: No features were found within the search area.

DNR Native Plant Communities

Search distance = 330 feet

A native plant community is a group of native plants that interact with each other and with their environment in ways not greatly altered by modern human activity or by introduced organisms. These groups of native plant species form recognizable units, such as oak savannas, pine forests, or marshes, that tend to repeat over space and time. Native plant communities are classified and described by considering vegetation, hydrology, landforms, soils, and natural disturbance regimes.

DNR Native Plant Community types and subtypes are given a Conservation Status Rank that reflects the relative rarity and endangerment of the community type in Minnesota. Conservation Status Ranks range from S1 (critically imperiled) to S5 (secure, common, widespread, and abundant). Native plant communities with a Conservation Status Rank of S1 through S3 are considered rare in the state. The DNR recommends avoidance of rare native plant communities.

Wetland native plant communities with a conservation status rank of S1 through S3 may also be considered Rare Natural Communities under the Wetland Conservation Act. For technical guidance on Rare Natural Communities, please visit WCA Program Guidance and Information.

DNR Native Plant Communities may be given a Condition Rank that reflects the degree of ecological integrity of a specific occurrence of a native plant community. The Condition Rank is based on species composition, vegetation structure, ecological processes and functions, level of human disturbance, presence of exotic species, and other factors. Condition Ranks range from A-rank (excellent ecological integrity) to D-rank (poor ecological integrity. A Condition Rank of NR means Not Ranked and a Condition Rank of MULTI mean multiple ranks are present because the record is a native plant community complex.

For more information please visit Minnesota's Native Plant Communities.

SEARCH RESULTS: No features were found within the search area.

Calcareous Fens

Search distance = 5 miles

A calcareous fen is a rare and distinctive peat-accumulating wetland that is legally protected in Minnesota under the Wetland Conservation Act (*Minnesota Statutes*, section 103G.223). Many of the unique characteristics of calcareous fens result from the upwelling of groundwater through calcareous substrates. Because of this dependence on groundwater hydrology, calcareous fens can be affected by nearby activities or even those several miles away. For more information regarding calcareous fens, please see the Calcareous Fen Fact Sheet or review the List of Known Calcareous Fens.

SEARCH RESULTS: No features were found within the search area.

DNR Old Growth Stands

Search distance = 330 feet

Old-growth forests are natural forests that have developed over a long period of time, generally at least 120 years, without experiencing severe, stand-replacing disturbances such as fires, windstorms, or logging. Old-growth forests are a unique, nearly vanished piece of Minnesota's history and ecology; less than 4% of Minnesota's old-growth forests remain. The DNR recommends avoidance of all DNR Old Growth Stands. The following DNR Old Growth Stands have been documented within the search area.

SEARCH RESULTS: No features were found within the search area.

MN Prairie Conservation Plan

Search distance = 330 feet

The Minnesota Prairie Conservation Plan, a twenty-five year strategy for accelerating prairie conservation in the state, identifies Core Areas, Corridors, and Corridor Complexes as areas to focus conservation efforts. The Plan's strategies include protection, enhancement, and restoration of grassland and wetland habitat. To meet the Plan's goals, approaches within Core Areas will need to include restoration and approaches within Corridors will need to include conservation of grassland habitat which can provide stepping stones between larger Core Areas.

SEARCH RESULTS: No features were found within the search area.

Important Bird Areas

Search distance = 1 mile

Important Bird Areas, identified by Audubon Minnesota in partnership with the DNR, are part of an international conservation effort aimed at conserving globally important bird habitats. They are voluntary and non-regulatory, but the designation demonstrates the significant ecological value of the area.

The following Important Birds Areas are within the search area:

- Mississippi River Twin Cities Important Bird Area

Lakes of Biological Significance

Search distance = 330 feet

Lakes of Biological Significance are high quality lakes as determined by the aquatic plant, fish, bird, or amphibian communities present within the lake. To be included in this layer, a lake only needs to meet the criteria for one of these four community types. The lake is assigned a biological significance of Outstanding, High, or Moderate based on the community with the highest quality.

SEARCH RESULTS: No features were found within the search area.

USFWS Habitat Conservation Plans

A Habitat Conservation Plan (HCP) is a mechanism for compliance with the federal Endangered Species Act for a given set of activities and protected species. An HCP is required by the U.S. Fish and Wildlife Service (USFWS) as part of an application for an incidental take permit (ITP). The ITP allows the permit holder to proceed with activities covered in the HCP that could result in the unintentional take of federally listed species.

Lakes States Forest Management Bat Habitat Conservation Plan (Bat HCP): (search distance = 0; within area of interest only) This HCP was created to provide flexibility to the Minnesota Department of Natural Resources (DNR) to manage forests while addressing federal Endangered Species Act (ESA) regulations related to federally threatened and endangered bat species. The Bat HCP covers three bat species within Minnesota: northern long-eared bat, little brown bat, and tricolored bat. This report is intended to help non-federal, non-DNR landowners evaluate their potential eligibility for the Landowner Enrollment Program of the Bat HCP (For DNR-administered land, DNR staff should refer to the Bat HCP Implementation Policy).

Landowner Enrollment Program – DNR's incidental take permit may be extended through the Landowner Enrollment Program (LEP) to eligible non-federal landowners who conduct forest management activities. Landowners may be eligible to enroll in the LEP if they are a county land administrator, own more than 10,000 acres, or own land that overlaps a Bat HCP feature. The results below indicate if the defined area of interest overlaps a Bat HCP feature. For more information on how to enroll in the LEP, please visit the Landowner Enrollment Program (LEP).

SEARCH RESULTS: No Bat HCP features were found within the area of interest. Landowners are only eligible to apply for the Landowner Enrollment Program if they are a county land administrator or they own more than 10,000 acres.

USFWS Regulatory Layers

To ensure compliance with federal law, conduct a federal regulatory review using the U.S. Fish and Wildlife Service's (USFWS) online Information for Planning and Consultation (IPaC) tool. This report is not a substitution for a Section 7 review.

For informational purposes only, this tool currently checks the following USFWS Regulatory Layers:

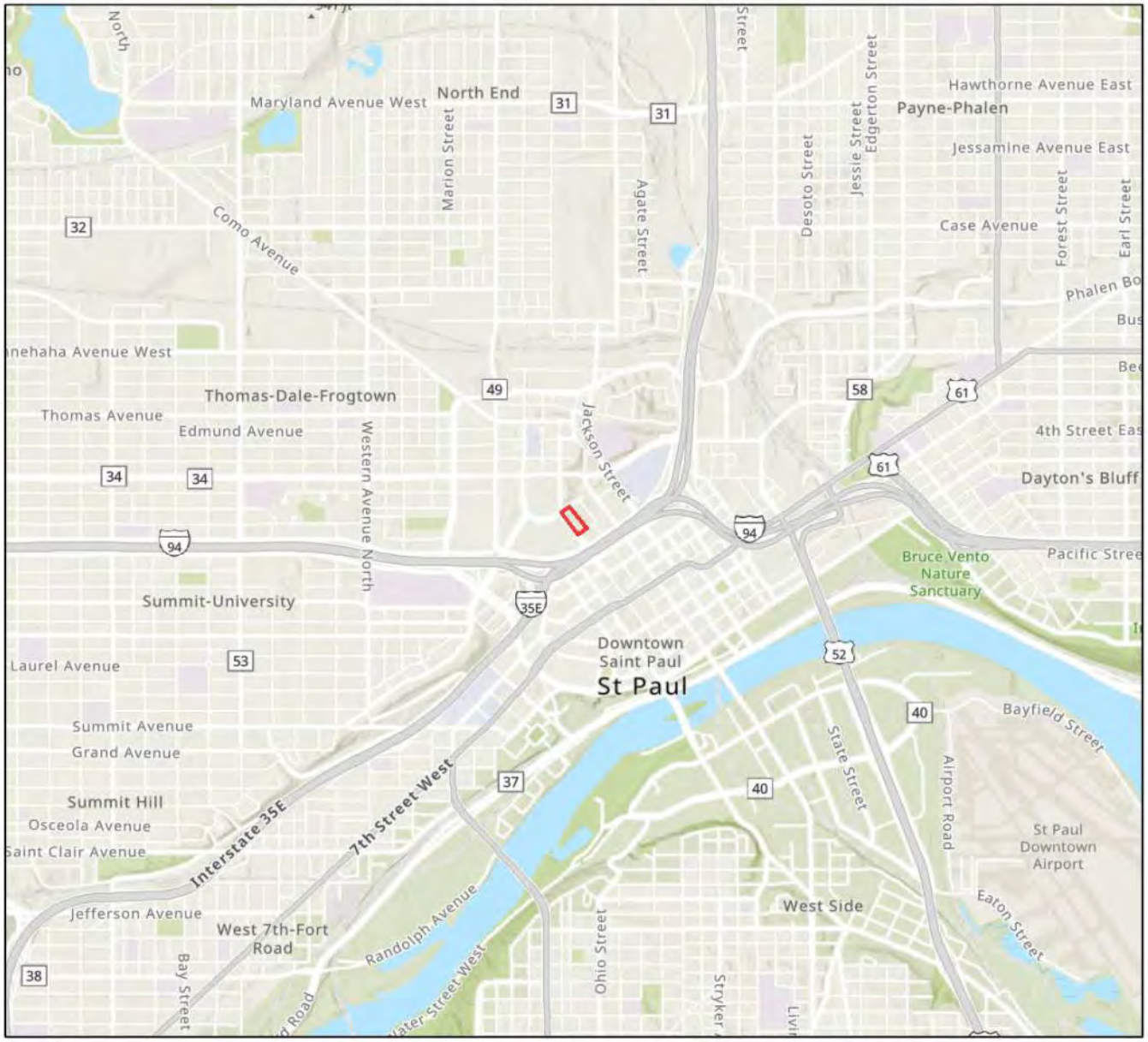
Rusty Patched Bumblebee High Potential Zones: (*search distance = 0; within area of interest only*) The rusty patched bumble bee (*Bombus affinis*), federally listed as endangered, is likely to be present in suitable habitat within the high potential zones. From April through October this species uses underground nests in upland grasslands, shrublands, and forest edges, and forages where nectar and pollen are available. From October through April the species overwinters under tree litter in upland forests and woodlands. The rusty patched bumble bee may be impacted by a variety of land management activities including, but not limited to, prescribed fire, tree-removal, haying, grazing, herbicide use, pesticide use, land-clearing, soil disturbance or compaction, or use of non-native bees. The USFWS RPBB guidance provides guidance on avoiding impacts to rusty patched bumble bee and a key for determining if actions are likely to affect the species; the determination key can be found in the appendix. Please visit the USFWS Rusty Patched Bumble Bee Map for the most current locations of High Potential Zones.

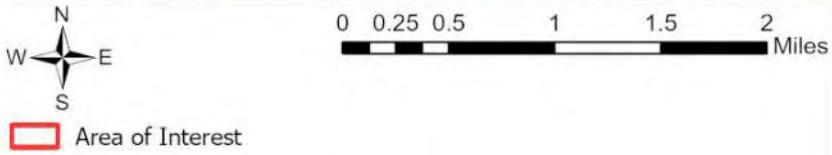
The following USFWS Regulatory Species are within the search area:

- Rusty Patched Bumble Bee High Potential Zone

ıtennial Office Building Demolition, St. Paul, MN (25X.138ϑ

Conservation Planning Map





Area of Interest

Size (acres): 2.89

County(s): Ramsey

Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS
Esri, NASA, NGA, USGS, FEMA
Metropolitan Council, MetroGIS, Esri, TomTom, Garmin, SafeGraph,

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
Minnesota-Wisconsin Ecological Services Field Office
3815 American Blvd East
Bloomington, MN 55425-1659
Phone: (952) 858-0793

In Reply Refer To: 06/30/2025 19:24:02 UTC
Project Code: 2025-0115906
Project Name: Centennial Office Building Demolition - 25X.138920

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

This response has been generated by the Information, Planning, and Conservation (IPaC) system to provide information on natural resources that could be affected by your project. The U.S. Fish and Wildlife Service (Service) provides this response under the authority of the Endangered Species Act of 1973 (16 U.S.C. 1531-1543), the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d), the Migratory Bird Treaty Act (16 U.S.C. 703-712), and the Fish and Wildlife Coordination Act (16 U.S.C. 661 *et seq.*).

Threatened and Endangered Species
The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and may be affected by your proposed project. The species list fulfills the requirement for obtaining a Technical Assistance Letter from the U.S. Fish and Wildlife Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

Consultation Technical Assistance
Please refer to refer to our Section 7 website for guidance and technical assistance, including step-by-step instructions for making effects determinations for each species that might be present and for specific guidance on the following types of projects: projects in developed areas, HUD, CDBG, EDA, USDA Rural Development projects, pipelines, buried utilities, telecommunications, and requests for a Conditional Letter of Map Revision (CLOMR) from FEMA.

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We recommend running the project (if it qualifies) through our **Minnesota-Wisconsin Federal Endangered Species Determination Key (Minnesota-Wisconsin ("D-key"))**. A demonstration video showing how-to access and use the determination key is available. Please note that the Minnesota-Wisconsin D-key is the third option of 3 available d-keys. D-keys are tools to help Federal agencies and other project proponents determine if their proposed action has the potential to adversely affect federally listed species and designated critical habitat. The Minnesota-Wisconsin D-key includes a structured set of questions that assists a project proponent in determining whether a proposed project qualifies for a certain predetermined consultation outcome for all federally listed species found in Minnesota and Wisconsin (except for the northern long-eared bat- see below), which includes determinations of “no effect” or “may affect, not likely to adversely affect." In each case, the Service has compiled and analyzed the best available information on the species’ biology and the impacts of certain activities to support these determinations.

If your completed d-key output letter shows a "No Effect" (NE) determination for all listed species, print your IPaC output letter for your files to document your compliance with the Endangered Species Act.

For Federal projects with a “Not Likely to Adversely Affect” (NLAA) determination, our concurrence becomes valid if you do not hear otherwise from us after a 30-day review period, as indicated in your letter.

If your d-key output letter indicates additional coordination with the Minnesota-Wisconsin Ecological Services Field Office is necessary (i.e., you get a “May Affect” determination), you will be provided additional guidance on contacting the Service to continue ESA coordination outside of the key; ESA compliance cannot be concluded using the key for “May Affect” determinations unless otherwise indicated in your output letter.

Note: Once you obtain your official species list, you are not required to continue in IPaC with d-keys, although in most cases these tools should expedite your review. If you choose to make an effects determination on your own, you may do so. If the project is a Federal Action, you may want to review our section 7 step-by-step instructions before making your determinations.

Using the IPaC Official Species List to Make No Effect and May Affect Determinations for Listed Species

1. If IPaC returns a result of “There are no listed species found within the vicinity of the project,” then project proponents can conclude the proposed activities will have **no effect** on any federally listed species under Service jurisdiction. Concurrence from the Service is not required for **no effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.
2. If IPaC returns one or more federally listed, proposed, or candidate species as potentially present in the action area of the proposed project – other than bats (see below) – then project proponents must determine if proposed activities will have **no effect** on or **may affect** those species. For assistance in determining if suitable habitat for listed, candidate, or proposed species occurs within your project area or if species may be affected by project activities, you can obtain Life History Information for Listed and Candidate Species on our office website. If no impacts will occur to a species on the IPaC species list (e.g., there is no habitat present in the project area), the appropriate determination is **no effect**. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.

3. Should you determine that project activities **may affect** any federally listed, please contact our office for further coordination. Letters with requests for consultation or correspondence about your project should include the Consultation Tracking Number in the header. Electronic submission is preferred.

Northern Long-Eared Bats
Northern long-eared bats occur throughout Minnesota and Wisconsin and the information below may help in determining if your project may affect these species.

Suitable summer habitat for northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥3 inches dbh for northern long-eared bat that have exfoliating bark, cracks, crevices, and/or hollows), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat and evaluated for use by bats. If your project will impact caves or mines or will involve clearing forest or woodland habitat containing suitable roosting habitat, northern long-eared bats could be affected. For bat activity dates, please review Appendix L in the Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines.

Examples of unsuitable habitat include:

- Individual trees that are greater than 1,000 feet from forested or wooded areas,
- Trees found in highly developed urban areas (e.g., street trees, downtown areas),
- A pure stand of less than 3-inch dbh trees that are not mixed with larger trees, and
- A monoculture stand of shrubby vegetation with no potential roost trees.

If IPaC returns a result that northern long-eared bats are potentially present in the action area of the proposed project, project proponents can conclude the proposed activities **may affect** this species **IF** one or more of the following activities are proposed:

- Clearing or disturbing suitable roosting habitat, as defined above, at any time of year,
- Any activity in or near the entrance to a cave or mine,
- Mining, deep excavation, or underground work within 0.25 miles of a cave or mine,
- Construction of one or more wind turbines, or
- Demolition or reconstruction of human-made structures that are known to be used by bats based on observations of roosting bats, bats emerging at dusk, or guano deposits or stains.

If none of the above activities are proposed, project proponents can conclude the proposed activities will have **no effect** on the northern long-eared bat. Concurrence from the Service is not required for **No Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC

species list report for your records.

If any of the above activities are proposed, and the northern long-eared bat appears on the user's species list, the federal project user will be directed to either the northern long-eared bat and tricolored bat range-wide D-key or the Federal Highways Administration, Federal Railways Administration, and Federal Transit Administration Indiana bat/Northern long-eared bat D-key, depending on the type of project and federal agency involvement. Similar to the Minnesota-Wisconsin D-key, these d-keys helps to determine if prohibited take might occur and, if not, will generate an automated verification letter. Additional information about available tools can be found on the Service's northern long-eared bat website.

Whooping Crane
Whooping crane is designated as a non-essential experimental population in Wisconsin and consultation under Section 7(a)(2) of the Endangered Species Act is only required if project activities will occur within a National Wildlife Refuge or National Park. If project activities are proposed on lands outside of a National Wildlife Refuge or National Park, then you are not required to consult. For additional information on this designation and consultation requirements, please review "Establishment of a Nonessential Experimental Population of Whooping Cranes in the Eastern United States."

Other Trust Resources and Activities
Bald and Golden Eagles - Although the bald eagle has been removed from the endangered species list, this species and the golden eagle are protected by the Bald and Golden Eagle Act and the Migratory Bird Treaty Act. It is the responsibility of the project proponent to survey the area for any migratory bird nests. If there is an eagle nest on-site while work is on-going, eagles may be disturbed. We recommend avoiding and minimizing disturbance to eagles whenever practicable. If you cannot avoid eagle disturbance, you may seek a permit. A nest take permit is always required for removal, relocation, or obstruction of an eagle nest. For communication and wind energy projects, please refer to additional guidelines below.

Migratory Birds - The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Service. The Service has the responsibility under the MBTA to proactively prevent the mortality of migratory birds whenever possible and we encourage implementation of recommendations that minimize potential impacts to migratory birds. Such measures include clearing forested habitat outside the nesting season (generally March 1 to August 31) or conducting nest surveys prior to clearing to avoid injury to eggs or nestlings.

Communication Towers - Construction of new communications towers (including radio, television, cellular, and microwave) creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. However, the Service has developed voluntary guidelines for minimizing impacts.

Transmission Lines - Migratory birds, especially large species with long wingspans, heavy bodies, and poor maneuverability can also collide with power lines. In addition, mortality can occur when birds, particularly hawks, eagles, kites, falcons, and owls, attempt to perch on uninsulated or unguarded power poles. To minimize these risks, please refer to guidelines developed by the Avian Power Line Interaction Committee and the Service. Implementation of these measures is especially important along sections of lines adjacent to wetlands or other areas that support large numbers of raptors and migratory birds.

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Wind Energy - To minimize impacts to migratory birds and bats, wind energy projects should follow the Service's Wind Energy Guidelines. In addition, please refer to the Service's Eagle Conservation Plan Guidance, which provides guidance for conserving bald and golden eagles in the course of siting, constructing, and operating wind energy facilities.

State Department of Natural Resources Coordination
While it is not required for your Federal section 7 consultation, please note that additional state endangered or threatened species may also have the potential to be impacted. **Please contact the Minnesota or Wisconsin Department of Natural Resources for information on state listed species that may be present in your proposed project area.**

Minnesota
Minnesota Department of Natural Resources - Endangered Resources Review Homepage
Email: Review.NHIS@state.mn.us

Wisconsin
Wisconsin Department of Natural Resources - Endangered Resources Review Homepage
Email: DNRERReview@wi.gov

We appreciate your concern for threatened and endangered species. Please feel free to contact our office with questions or for additional information.

Attachment(s):

- Official Species List
- Bald & Golden Eagles
- Migratory Birds

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Minnesota-Wisconsin Ecological Services Field Office
3815 American Blvd East
Bloomington, MN 55425-1659
(952) 858-0793

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

PROJECT SUMMARY

Project Code: 2025-0115906

Project Name: Centennial Office Building Demolition - 25X.138920

Project Type: Government / Municipal (Non-Military) Construction

Project Description: Wold Engineers and Architects is proposing the demolition of the Centennial Office Building located at 658 Cedar St, Saint Paul, MN 55155. This site is located in NE ¼ of the SW ¼ of Section 31, Township 29 North, Range 22 West. Work includes complete structure removal including foundations and footings.

The demolition involves the complete removal of the building including foundations and footings. This includes the existing aluminum doors, coiling doors, and hollow metal (HM) frames and doors, along with all associated hardware, glazing, and anchors. Selective demolition will be carried out where specified. The concrete slab will be sawcut and removed to extents that will be indicated prior to construction. The entire building, including the brick smoke stack and concrete pump house, will be demolished. Additionally, the plan calls for the removal of the concrete retaining wall, an above-ground fuel tank, and disconnection of the existing gas utility in coordination with the local utility company, noting that the exact location of underground piping is unknown. Finally, the concrete floor slab will be sawcut and removed as needed for new water service, with infill to be placed afterward.

After demolition and site fill are completed, the area will be converted into open landscaped green space. The site will be graded and planted with grass and vegetation to provide a clean and functional outdoor area.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@44.9532539,-93.09972500710282,14z

Counties: Ramsey County, Minnesota

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ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

BIRDS

NAME	STATUS
Whooping Crane *Grus americana* Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/758	Experimental Population, Non-Essential

CLAMS

NAME	STATUS
Higgins Eye (pearlymussel) *Lampsilis higginsii* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5428	Endangered
Salamander Mussel *Simpsonaias ambigua* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6208	Proposed Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened
Rusty Patched Bumble Bee *Bombus affinis* There is **proposed** critical habitat for this species. Your location overlaps the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9383 General project design guidelines: https://ipac.ecosphere.fws.gov/project/7TEL7ZYXDZGXDFXPFCLOPDU32A/documents/generated/5967.pdf	Endangered

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

CRITICAL HABITATS

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Rusty Patched Bumble Bee *Bombus affinis* https://ecos.fws.gov/ecp/species/9383#crithab	Proposed

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act [2] and the Migratory Bird Treaty Act (MBTA) [1]. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

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1. The Bald and Golden Eagle Protection Act of 1940.
2. The Migratory Birds Treaty Act of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are Bald Eagles and/or Golden Eagles in your project area.

Measures for Proactively Minimizing Eagle Impacts
For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the National Bald Eagle Management Guidelines. You may employ the timing and activity-specific distance recommendations in this document when designing your project/activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to Bald Eagle Nesting and Sensitivity to Human Activity.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

If disturbance or take of eagles cannot be avoided, an incidental take permit may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the Do I Need A Permit Tool. For assistance making this determination for golden eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

Ensure Your Eagle List is Accurate and Complete
If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the Supplemental Information

on Migratory Birds and Eagles, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Golden Eagle *Aquila chrysaetos* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds elsewhere

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

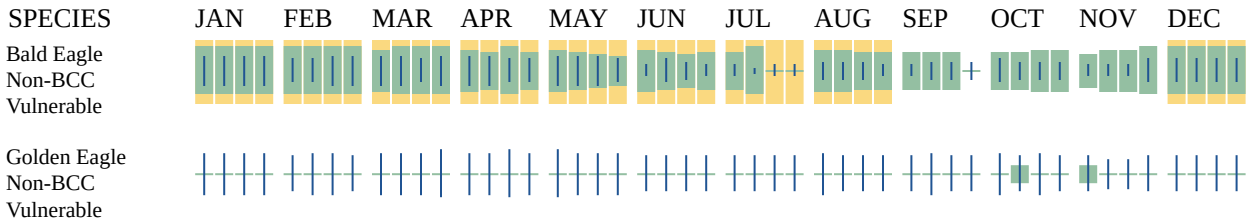
Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

■ probability of presence ■ breeding season | survey effort – no data



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) [1] prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Golden-plover *Pluvialis dominica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10561	Breeds elsewhere

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NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Black Tern *Chlidonias niger surinamenisis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3093	Breeds May 15 to Aug 20
Black-billed Cuckoo *Coccyzus erythropthalmus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9454	Breeds May 20 to Jul 31
Canada Warbler *Cardellina canadensis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9643	Breeds May 20 to Aug 10
Chimney Swift *Chaetura pelagica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Eastern Whip-poor-will *Antrostomus vociferus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10678	Breeds May 1 to Aug 20
Golden Eagle *Aquila chrysaetos* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds elsewhere
Golden-winged Warbler *Vermivora chrysoptera* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8745	Breeds May 1 to Jul 20
Grasshopper Sparrow *Ammodramus savannarum perpallidus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8329	Breeds Jun 1 to Aug 20

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NAME	BREEDING SEASON
Henslow's Sparrow *Centronyx henslowii* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3941	Breeds May 1 to Aug 31
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Long-eared Owl *asio otus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3631	Breeds Mar 1 to Jul 15
Pectoral Sandpiper *Calidris melanotos* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9561	Breeds elsewhere
Red-headed Woodpecker *Melanerpes erythrocephalus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9398	Breeds May 10 to Sep 10
Rusty Blackbird *Euphagus carolinus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9478	Breeds elsewhere
Semipalmated Sandpiper *Calidris pusilla* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9603	Breeds elsewhere
Short-billed Dowitcher *Limnodromus griseus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Western Grebe *aechmophorus occidentalis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/6743	Breeds Jun 1 to Aug 31
Wood Thrush *Hylocichla mustelina* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

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PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

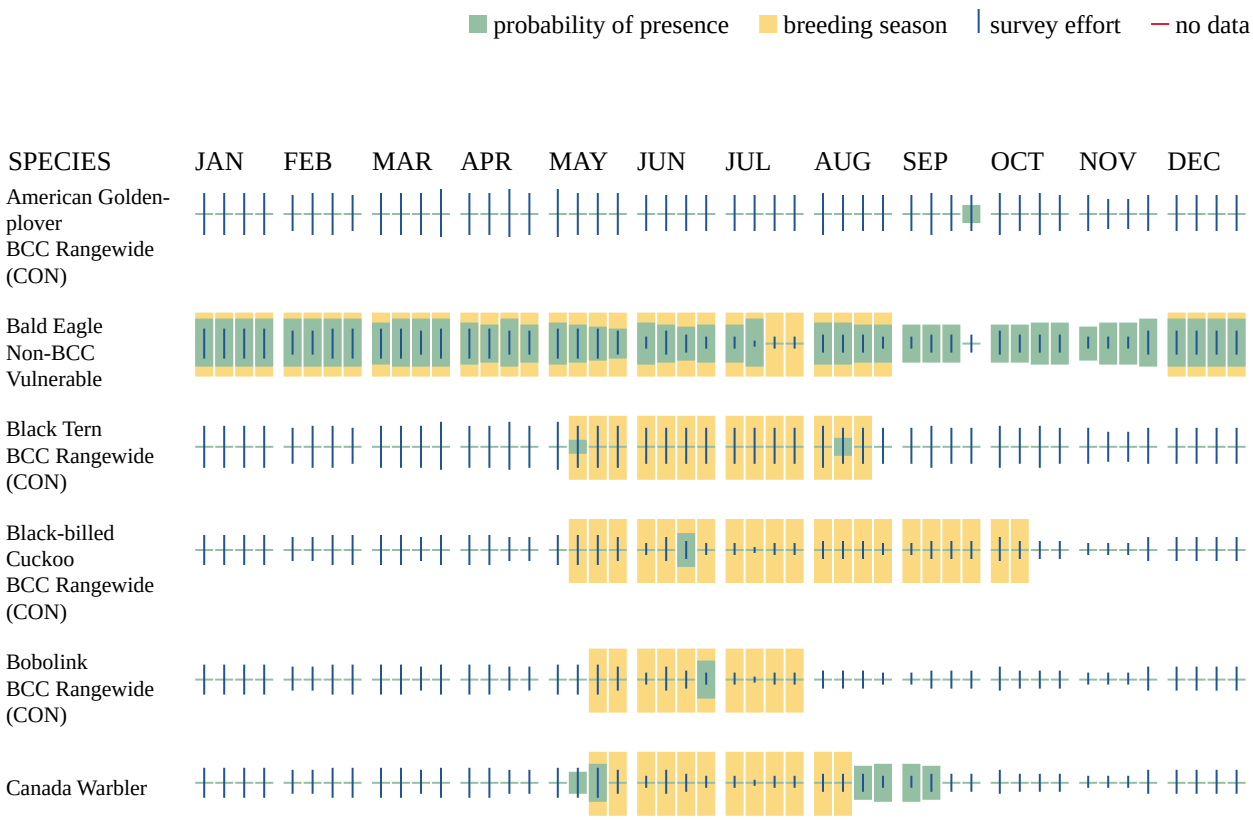
Probability of Presence (■)

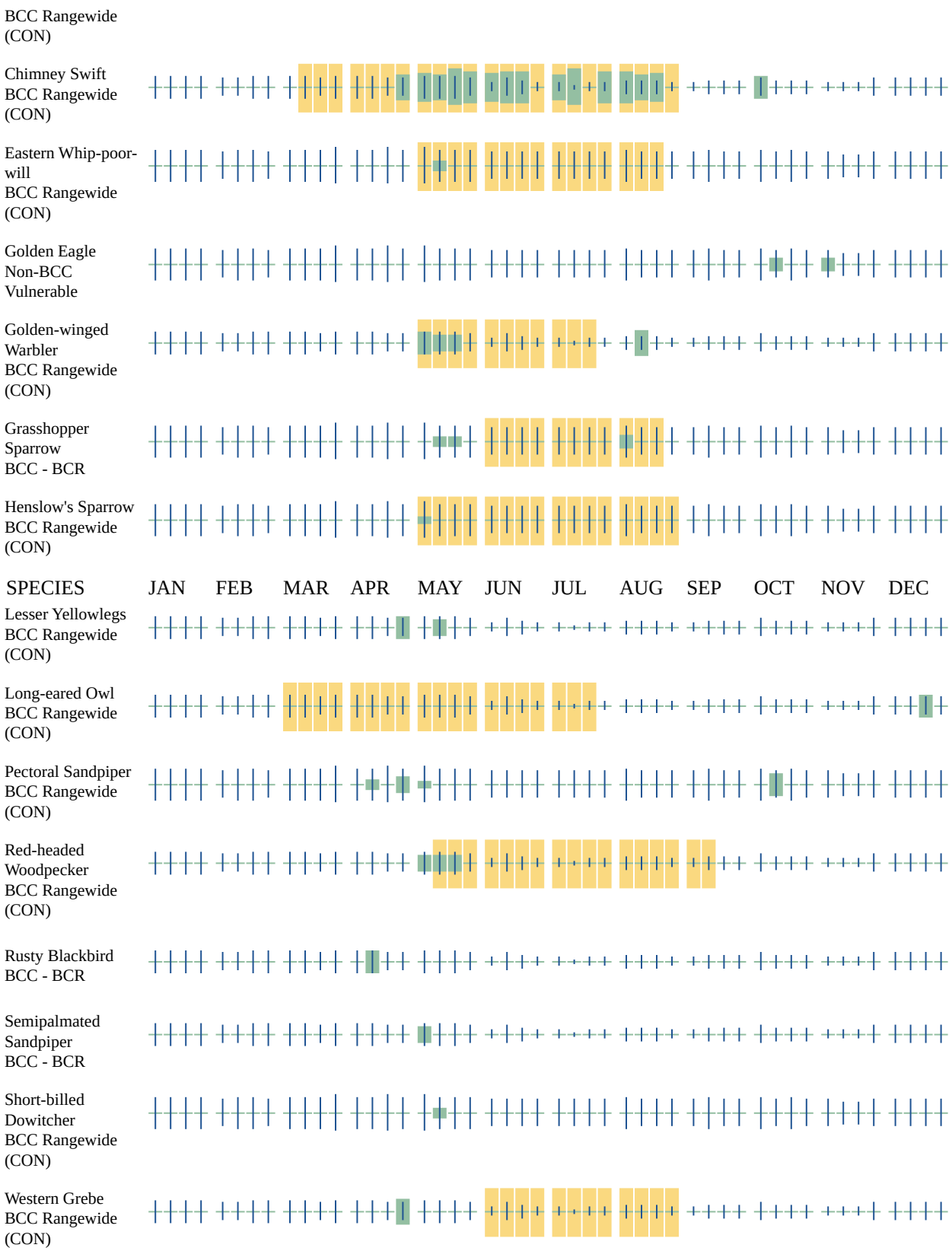
Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.




BCC Rangewide (CON)
Chimney Swift BCC Rangewide (CON)
Eastern Whip-poor-will BCC Rangewide (CON)
Golden Eagle Non-BCC Vulnerable
Golden-winged Warbler BCC Rangewide (CON)
Grasshopper Sparrow BCC - BCR
Henslow's Sparrow BCC Rangewide (CON)
SPECIES
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Lesser Yellowlegs BCC Rangewide (CON)
Long-eared Owl BCC Rangewide (CON)
Pectoral Sandpiper BCC Rangewide (CON)
Red-headed Woodpecker BCC Rangewide (CON)
Rusty Blackbird BCC - BCR
Semipalmated Sandpiper BCC - BCR
Short-billed Dowitcher BCC Rangewide (CON)
Western Grebe BCC Rangewide (CON)

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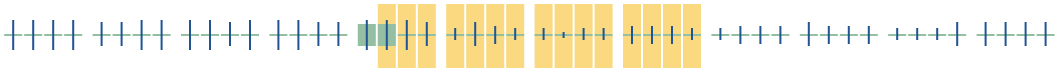
Wood Thrush
BCC Rangewide
(CON)



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
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IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Heather Mullenbach
Address: 1960 Premier Dr
City: Mankato
State: MN
Zip: 56001
Email heather.mullenbach@bolton-menk.com
Phone: 5079957387

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Minnesota-Wisconsin Ecological Services Field Office
3815 American Blvd East
Bloomington, MN 55425-1659
Phone: (952) 858-0793

In Reply Refer To: 06/30/2025 19:45:19 UTC
Project code: 2025-0115906
Project Name: Centennial Office Building Demolition - 25X.138920

Federal Nexus: no
Federal Action Agency (if applicable):

Subject: Record of project representative's no effect determination for 'Centennial Office Building Demolition - 25X.138920'

Dear Heather Mullenbach:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on June 30, 2025, for 'Centennial Office Building Demolition - 25X.138920' (here forward, Project). This project has been assigned Project Code 2025-0115906 and all future correspondence should clearly reference this number. **Please carefully review this letter.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the **Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey)**, invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.***

Determination for the Northern Long-Eared Bat and/or Tricolored Bat

Based upon your IPaC submission and a standing analysis, your project has reached the following effect determinations:

Species	Listing Status	Determination
Northern Long-eared Bat (*Myotis septentrionalis*)	Endangered	No effect

Tricolored Bat (*Perimyotis subflavus*)	Proposed Endangered	No effect

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no consultation with the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13].

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Higgins Eye (pearlymussel) *Lampsilis higginsii* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Rusty Patched Bumble Bee *Bombus affinis* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Whooping Crane *Grus americana* Experimental Population, Non-Essential

Critical Habitats:

- Rusty Patched Bumble Bee Bombus affinis Endangered

You may coordinate with our Office to determine whether the Action may affect the animal species listed above and, if so, how they may be affected.

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Next Steps

If there are no updates on listed species, no further consultation/coordination for this project is required with respect to the species covered by this key. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place to ensure compliance with the Act.

If you have any questions regarding this letter or need further assistance, please contact the Minnesota-Wisconsin Ecological Services Field Office and reference Project Code 2025-0115906 associated with this Project.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Centennial Office Building Demolition - 25X.138920

2. Description

The following description was provided for the project 'Centennial Office Building Demolition - 25X.138920':

> Wold Engineers and Architects is proposing the demolition of the Centennial Office Building located at 658 Cedar St, Saint Paul, MN 55155. This site is located in NE ¼ of the SW ¼ of Section 31, Township 29 North, Range 22 West. Work includes complete structure removal including foundations and footings. The demolition involves the complete removal of the building including foundations and footings. This includes the existing aluminum doors, coiling doors, and hollow metal (HM) frames and doors, along with all associated hardware, glazing, and anchors. Selective demolition will be carried out where specified. The concrete slab will be sawcut and removed to extents that will be indicated prior to construction. The entire building, including the brick smoke stack and concrete pump house, will be demolished. Additionally, the plan calls for the removal of the concrete retaining wall, an above-ground fuel tank, and disconnection of the existing gas utility in coordination with the local utility company, noting that the exact location of underground piping is unknown. Finally, the concrete floor slab will be sawcut and removed as needed for new water service, with infill to be placed afterward.
> After demolition and site fill are completed, the area will be converted into open landscaped green space. The site will be graded and planted with grass and vegetation to provide a clean and functional outdoor area.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@44.9532539,-93.09972500710282,14z

DETERMINATION KEY RESULT

Based on the information you provided, you have determined that the Proposed Action will have no effect on the species covered by this determination key. Therefore, no consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required for those species.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

   Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

   No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

   Note: For federal actions, answer ‘yes’ if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

   No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

   No

6. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

   Automatically answered
   No

7. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

   No

8. Does the action area contain (1) talus or (2) anthropogenic or naturally formed rock shelters or crevices in rocky outcrops, rock faces or cliffs?

   No

9. Will the action cause effects to a bridge?

   Note: Covered bridges should be considered as bridges in this question.

   No

10. Will the action result in effects to a culvert or tunnel at any time of year?

    No

11. Are trees present within 1000 feet of the action area?

    Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

12. Does the action include the intentional exclusion of bats from a building or structure?

    Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

    No

13. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats?**

    No

14. Will the action cause construction of one or more new roads open to the public?

    For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

    No

15. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.). .

    No

16. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

    For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

    No

17. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

    Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects

    No

18. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

    No

19. Will the action include drilling or blasting?

    No

20. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)?

    No

21. Will the proposed action involve the use of herbicides or other pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?

    No

22. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

    Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    No

23. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    No

24. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

    Yes

25. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

    No

26. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

    Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property.

    No

27. Does the project intersect with the 0- 9.9% forest density category?

    Automatically answered
    Yes

28. Does the project intersect with the 10.0- 19.9% forest density category map?

    Automatically answered
    No

29. Does the project intersect with the 20.0- 29.9% forest density category map?

    Automatically answered
    No

30. Does the project intersect with the 30.0- 100% forest density category map?

    Automatically answered
    No

31. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 0.5 acre in total extent?

    No

32. Will the proposed action result in the use of prescribed fire?

    Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

    No

33. Does the action area intersect the northern long-eared bat species list area?

    Automatically answered
    Yes

34. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known NLEB hibernacula? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

35. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

36. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

    Automatically answered
    No

37. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.Have you contacted the appropriate agency to determine if your action is within 150 feet of any documented northern long-eared bat roosts?

    Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat roosts is available here. Location information for northern long-eared bat roosts is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

    Automatically answered
    No

38. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?
    If unsure, answer "Yes."

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    No

39. Does the action area intersect the tricolored bat species list area?

    Automatically answered
    Yes

40. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known tricolored bat hibernacula? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

41. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

42. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?
(If unsure, answer ""Yes."")

Note: If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (Tillandsia usneoides), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.

No

43. Do you have any documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

0.1

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Heather Mullenbach
Address: 1960 Premier Dr
City: Mankato
State: MN
Zip: 56001
Email heather.mullenbach@bolton-menk.com
Phone: 5079957387

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Minnesota-Wisconsin Ecological Services Field Office
3815 American Blvd East
Bloomington, MN 55425-1659
Phone: (952) 858-0793

In Reply Refer To: 06/30/2025 19:30:07 UTC
Project code: 2025-0115906
Project Name: Centennial Office Building Demolition - 25X.138920

Subject: Technical Assistance letter for 'Centennial Office Building Demolition - 25X.138920' for specified threatened and endangered species that may occur in your proposed project location consistent with the Minnesota-Wisconsin Endangered Species Determination Key (Minnesota-Wisconsin DKey).

Dear Heather Mullenbach:

The U.S. Fish and Wildlife Service (Service) received on **June 30, 2025** your effect determination(s) for the 'Centennial Office Building Demolition - 25X.138920' (Action) using the Minnesota-Wisconsin DKey within the Information for Planning and Consultation (IPaC) system. You have submitted this key to satisfy requirements under Section 7(a)(2). The Service developed this system in accordance of with the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 et seq.).

Based on your answers and the assistance of the Service's Minnesota-Wisconsin DKey, you made the following effect determination(s) for the proposed Action:

Species	**Listing Status**	**Determination**
Higgins Eye (pearlymussel) (*Lampsilis higginsii*)	Endangered	No effect
Monarch Butterfly (*Danaus plexippus*)	Proposed Threatened	No effect
Salamander Mussel (*Simpsonaias ambigua*)	Proposed Endangered	No effect
Whooping Crane (*Grus americana*)	Experimental Population, Non-Essential	No effect

Determination Information

Thank you for informing the Service of your "No Effect" determination(s). No further coordination is necessary for the species you determined will not be affected by the Action.

Additional Information

Sufficient project details: Please provide sufficient project details on your project homepage in IPaC (Define Project, Project Description) to support your conclusions. Failure to disclose important aspects of your project that would influence the outcome of your effects determinations may negate your determinations and invalidate this letter. If you have site-specific information that leads you to believe a different determination is more appropriate for your project than what the Dkey concludes, you can and should proceed based on the best available information.

Future project changes: The Service recommends that you contact the Minnesota-Wisconsin Ecological Services Field Office or re-evaluate the project in IPaC if: 1) the scope or location of the proposed Action is changed; 2) new information reveals that the action may affect listed species or designated critical habitat in a manner or to an extent not previously considered; 3) the Action is modified in a manner that causes effects to listed species or designated critical habitat; or 4) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project changes are final or resources committed.

Species-specific information

Freshwater Mussels: Freshwater mussels are one of the most critically imperiled groups of organisms in the world. In North America, 65% of the remaining 300 species are vulnerable to extinction (Haag and Williams 2014). Implementing measures to conserve and restore freshwater mussel populations directly improves water quality in lakes, rivers, and streams throughout Minnesota and Wisconsin. An adult freshwater mussel filters anywhere from 1 to 38 gallons of water per day (Baker and Levinton 2003, Barnhart pers. comm. 2019). A 2015 survey found that in some areas, mussels can reduce the bacterial populations by more than 85% (Othman et al. 2015 in Vaughn 2017). Mussels are also considered to be ecosystem engineers by stabilizing substrate and providing habitat for other aquatic organisms (Vaughn 2017). In addition to ecosystem services, mussels play an important role in the food web, contributing critical nutrients to both terrestrial and aquatic habitats, including those that support sport fish (Vaughn 2017). Taking proactive measures to conserve and restore freshwater mussels will improve water quality, which has the potential to positively impact human health and recreation in the States of Minnesota and Wisconsin.

You have indicated that your Action will have no effect (NE) on Federally listed mussel species. However, state-listed mussels may occur in your Action area. Contact the Minnesota or Wisconsin Department of Natural Resources to determine effects to state-listed mussels.

Bald and Golden Eagles: Bald eagles, golden eagles, and their nests are protected under the Bald and Golden Eagle Protection Act (54 Stat. 250, as amended, 16 U.S.C. 668a-d) (Eagle Act). The Eagle Act prohibits, except when authorized by an Eagle Act permit, the “taking” of bald and golden eagles and defines “take” as “pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb.” The Eagle Act’s implementing regulations define disturb as “… to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior.”

The following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Rusty Patched Bumble Bee *Bombus affinis* Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

Coordination with the Service is not complete if additional coordination is advised above for any species.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Centennial Office Building Demolition - 25X.138920

2. Description

The following description was provided for the project 'Centennial Office Building Demolition - 25X.138920':

> Wold Engineers and Architects is proposing the demolition of the Centennial Office Building located at 658 Cedar St, Saint Paul, MN 55155. This site is located in NE ¼ of the SW ¼ of Section 31, Township 29 North, Range 22 West. Work includes complete structure removal including foundations and footings. The demolition involves the complete removal of the building including foundations and footings. This includes the existing aluminum doors, coiling doors, and hollow metal (HM) frames and doors, along with all associated hardware, glazing, and anchors. Selective demolition will be carried out where specified. The concrete slab will be sawcut and removed to extents that will be indicated prior to construction. The entire building, including the brick smoke stack and concrete pump house, will be demolished. Additionally, the plan calls for the removal of the concrete retaining wall, an above-ground fuel tank, and disconnection of the existing gas utility in coordination with the local utility company, noting that the exact location of underground piping is unknown. Finally, the concrete floor slab will be sawcut and removed as needed for new water service, with infill to be placed afterward.
> After demolition and site fill are completed, the area will be converted into open landscaped green space. The site will be graded and planted with grass and vegetation to provide a clean and functional outdoor area.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@44.9532539,-93.09972500710282,14z

QUALIFICATION INTERVIEW

1. This determination key is intended to assist the user in evaluating the effects of their actions on Federally listed species in Minnesota and Wisconsin. It does not cover other prohibited activities under the Endangered Species Act (e.g., for wildlife: import/export, Interstate or foreign commerce, possession of illegally taken wildlife, etc.; for plants: import/export, reduce to possession, malicious destruction on Federal lands, commercial sale, etc.) or other statutes. Additionally, this key DOES NOT cover wind development, purposeful take (e.g., for research or surveys), communication towers that have guy wires or are over 450 feet in height, aerial or other large-scale application of any chemical (such as insecticide or herbicide), and approval of long-term permits or plans (e.g., FERC licenses, HCP's).

   Click **YES** to acknowledge that you must consider other prohibitions of the ESA or other statutes outside of this determination key.

   Yes
2. Is the action being funded, authorized, or carried out by a Federal agency?

   No
3. Are you the Federal agency or designated non-federal representative?

   Yes
4. Does the action involve the installation or operation of wind turbines?

   No
5. Does the action involve purposeful take of a listed animal?

   No
6. Does the action involve a new communications tower?

   No
7. Does the activity involve aerial or other large-scale application of ANY chemical, including pesticides (insecticide, herbicide, fungicide, rodenticide, etc)?

   No
8. Will your action permanently affect local hydrology?

   Yes

9. Does your project have the potential to impact the riparian zone or indirectly impact a stream/river (e.g., cut and fill; horizontal directional drilling; construction; vegetation removal; pesticide or fertilizer application; discharge; runoff of sediment or pollutants; increase in erosion, etc.)?

   Note: Consider all potential effects of the action, including those that may happen later in time and outside and downstream of the immediate area involved in the action.

   Endangered Species Act regulation defines "effects of the action" to include all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (50 CFR 402.02).

   No

10. Will your action disturb the ground or existing vegetation?

    Note: This includes any off-road vehicle access, soil compaction (enough to collapse a rodent burrow), digging, seismic survey, directional drilling, heavy equipment, grading, trenching, placement of fill, pesticide application (herbicide, fungicide), vegetation management (including removal or maintenance using equipment or prescribed fire), cultivation, development, etc.

    Yes

11. Will your action include spraying insecticides?

    No

12. Does your action area occur entirely within an already developed area?

    Note: Already developed areas are already paved, covered by existing structures, manicured lawns, industrial sites, or cultivated cropland, AND do not contain trees that could be roosting habitat. Be aware that listed species may occur in areas with natural, or semi-natural, vegetation immediately adjacent to existing utilities (e.g. roadways, railways) or within utility rights-of-way such as overhead transmission line corridors, and can utilize suitable trees, bridges, or culverts for roosting even in urban dominated landscapes (so these are not considered "already developed areas" for the purposes of this question). If unsure, select NO..

    Yes

13. Does the action have potential indirect effects to listed species or the habitats they depend on (e.g., water discharge into adjacent habitat or waterbody, changes in groundwater elevation, introduction of an exotic plant species)?

    No

14. [Semantic] Does the project intersect the Salamander mussel AOI?

    Automatically answered
    Yes

15. [Hidden Semantic] Does the action area intersect the monarch butterfly species list area?

    Automatically answered
    Yes

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Heather Mullenbach
Address: 1960 Premier Dr
City: Mankato
State: MN
Zip: 56001
Email heather.mullenbach@bolton-menk.com
Phone: 5079957387

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Minnesota-Wisconsin Ecological Services Field Office
3815 American Blvd East
Bloomington, MN 55425-1659
Phone: (952) 858-0793

In Reply Refer To: 06/30/2025 19:50:23 UTC
Project code: 2025-0115906
Project Name: Centennial Office Building Demolition - 25X.138920

Federal Nexus: no

Federal Action Agency (if applicable):

Subject: Technical Assistance letter for 'Centennial Office Building Demolition - 25X.138920' for rusty patched bumble bee that may occur in your proposed project location consistent with the Rusty Patched Bumble Bee Range Wide Determination Key (RPBB DKey).

Dear Heather Mullenbach:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on **June 30, 2025**, for 'Centennial Office Building Demolition - 25X.138920' (here forward, Project). This project has been assigned Project Code ‘2025-0115906’ and all future correspondence should clearly reference this number. **Please carefully review this letter.**

Ensuring Accurate Determinations When Using IPaC Determination Keys

The USFWS developed the IPaC system and associated species’ determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. **Failure to accurately represent or implement the Project as detailed in IPaC or the RPBB DKey, invalidates this letter.**

Determination for the Rusty Patched Bumble Bee

Based on your answers and the assistance of the USFWS’ RPBB DKey, you made the following effect determination for the proposed Action:

Species	Listing Status	Determination
Rusty Patched Bumble Bee (*Bombus affinis*)	Endangered	No effect

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

This determination was reached because the Action Area does not currently contain rusty patched bumble bee habitat, nor will rusty patched bumble bee habitat will be created. Your agency has met its ESA section 7 consultation requirements for rusty patched bumble bee for the Action and no further coordination is required for this species. Please review the proposed Action for effects to other federally listed species (see below)

Thank you for informing the Service of your “No Effect” determination for Rusty Patched Bumble Bee.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the rusty patched bumble bee **does not** apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Higgins Eye (pearlymussel) *Lampsilis higginsii* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Salamander Mussel *Simpsonaias ambigua* Proposed Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered
- Whooping Crane *Grus americana* Experimental Population, Non-Essential

Critical Habitats:

- Rusty Patched Bumble Bee Bombus affinis Endangered

Coordination with the USFWS is advised for any species and/or critical habitat listed above.

You should coordinate with our Office to determine whether the Action may affect the species and/or critical habitat listed above and if further consultation is required. Note that reinitiation of consultation would be necessary if a new species is listed or critical habitat designated that may be affected by the identified action before it is complete.

If you have any questions regarding this letter or need further assistance, please contact the local Ecological Services Field Office and reference Project Code ‘2025-0115906’ associated with this Project. See the top of this letter for the Project Code.

Additional Information

Sufficient project details: Please provide sufficient project details on your project homepage in IPaC (Define Project, Project Description) to support your conclusions. Failure to disclose important aspects of your project that would influence the outcome of your effects determinations may negate your determinations and invalidate this letter. If you have site-specific information that leads you to believe a different determination is more appropriate for your project than what the Dkey concludes, you can and should proceed based on the best available information.

Future project changes: The Service recommends that you contact the local Ecological Services Field Office or re-evaluate the project in IPaC if: 1) the scope or location of the proposed Action is changed; 2) new information reveals that the action may affect rusty patched bumble bee in a manner or to an extent not previously considered; 3) the Action is modified in a manner that causes effects to rusty patched bumble bee; or 4) or critical habitat is designated. If any of the above conditions occur, additional consultation with the Service should take place before project changes are final or resources are committed.

Species-specific information

Bald and Golden Eagles: Bald eagles, golden eagles, and their nests are protected under the Bald and Golden Eagle Protection Act (54 Stat. 250, as amended, 16 U.S.C. 668a-d) (Eagle Act). The Eagle Act prohibits, except when authorized by an Eagle Act permit, the "taking" of bald and golden eagles and defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." The Eagle Act's implementing regulations define disturb as "… to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior."

If you observe a bald eagle nest in the vicinity of your proposed project, you should follow the National Bald Eagle Management Guidelines (May 2007). For more information on eagles and conducting activities in the vicinity of an eagle nest, please visit our regional eagle website or contact the local Ecological Services Field Office. If the Action may affect bald or golden eagles, additional coordination with the Service under the Eagle Act may be required.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Centennial Office Building Demolition - 25X.138920

2. Description

The following description was provided for the project 'Centennial Office Building Demolition - 25X.138920':

> Wold Engineers and Architects is proposing the demolition of the Centennial Office Building located at 658 Cedar St, Saint Paul, MN 55155. This site is located in NE ¼ of the SW ¼ of Section 31, Township 29 North, Range 22 West. Work includes complete structure removal including foundations and footings. The demolition involves the complete removal of the building including foundations and footings. This includes the existing aluminum doors, coiling doors, and hollow metal (HM) frames and doors, along with all associated hardware, glazing, and anchors. Selective demolition will be carried out where specified. The concrete slab will be sawcut and removed to extents that will be indicated prior to construction. The entire building, including the brick smoke stack and concrete pump house, will be demolished. Additionally, the plan calls for the removal of the concrete retaining wall, an above-ground fuel tank, and disconnection of the existing gas utility in coordination with the local utility company, noting that the exact location of underground piping is unknown. Finally, the concrete floor slab will be sawcut and removed as needed for new water service, with infill to be placed afterward.
> After demolition and site fill are completed, the area will be converted into open landscaped green space. The site will be graded and planted with grass and vegetation to provide a clean and functional outdoor area.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@44.9532539,-93.09972500710282,14z

QUALIFICATION INTERVIEW

1. Is the action authorized, funded, or being carried out by a Federal agency?

   No

2. Does the action area overlap with a rusty patched bumble bee high potential zone?

   Automatically answered
   Yes

3. Does the action include - or is it reasonably certain to cause - intentional take of rusty patched bumble bee (rusty patched bumble bee) that is not covered under a scientific recovery permit under section 10(A)1(a) of the Endangered Species Act or under a cooperative agreement with a state agency?

   Note: This could include, for example, surveys or studies that include handling or capture of the species. Whether "Project Review" surveys using USFWS protocols were conducted as part of the action is addressed later in this key.

   No

4. Does the action include – or is it reasonably certain to result in – construction of one or more new roads or rail lines that will increase vehicle traffic in a rusty patched bumble bee HPZ?

   No

5. Does the action include – or is it reasonably certain to result in – the addition of travel lanes that are likely to increase vehicle traffic on one or more existing roads that will increase vehicle traffic in a rusty patched bumble bee HPZ?

   No

6. Is an increase in vehicular traffic in one or more HPZs a likely outcome of the federal action?

   No

7. Does the action include – or is it reasonably certain to cause – the use of commercial/managed bees (e.g., the use of honeybees or managed bumble bees to pollinate crops).

   No

8. Is there habitat for nesting, foraging, and/or overwintering for the rusty patched bumble bee in the action area?

   Note: Please refer to the ESA Section 7(a)(2) Voluntary Implementation technical assistance for Rusty Patched Bumble Bee .

   No

9. Will the proposed action restore habitat for the species in the action area? For a description of rusty patched bumble bee nesting and foraging habitats, see the section 7 guidelines.

   Note: that if the action may affect areas outside of the immediate project footprint that contain rusty patched bumble bee habitat, answer 'yes.' This may include, for example, use of application of any pesticide (e.g., insecticide, herbicide, or fungicide) that may drift or be otherwise transported outside of the targeted area.

   No

IPAC USER CONTACT INFORMATION

Agency: Private Entity
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Phone: 5079957387

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Breeding evidence for block T29R22c

25 species were recorded in this block:

Whistling-Ducks, Geese, Swans, and Ducks	
Mallard	confirmed
Pigeons and Doves	
Rock Pigeon	confirmed
Swifts	
Chimney Swift	probable
Bitterns, Herons, Egrets, and Night-Herons	
Great Blue Heron	observed
Accipiter, Hawks, and Eagles	
Cooper's Hawk	confirmed
Screech-Owls and Owls	
Great Horned Owl	probable
Falcons	
American Kestrel	confirmed
Peregrine Falcon	confirmed
Jays, Magpies, and Crows	
Blue Jay	confirmed
American Crow	confirmed
Nuthatches	
White-breasted Nuthatch	possible
Wrens	
House Wren	confirmed
Thrushes	
American Robin	confirmed
Starlings	
European Starling	confirmed
Waxwings	
Cedar Waxwing	confirmed
Old World Sparrows	
House Sparrow	confirmed
Finches	
House Finch	confirmed
American Goldfinch	confirmed
Towhees and Sparrows	
Chipping Sparrow	confirmed
Song Sparrow	possible
Blackbirds and Orioles	
Orchard Oriole	confirmed
Red-winged Blackbird	possible
Brown-headed Cowbird	possible
Common Grackle	confirmed
Tanagers, Cardinals, and Grosbeaks	
Northern Cardinal	confirmed

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Appendix C: Cultural Resources

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Centennial Office Building Demolition Project, Saint Paul, Ramsey County, Minnesota
Phase IA Archaeology Literature Review

Wold Engineers and Architects
April 2026

Township 29 North, Range 22 West, Section 31

This report is redacted for public distribution.

Redacted information contained in this report relates to the nature and location of archaeological sites and is considered private and confidential and not for public disclosure in accordance with the Minnesota Field Archaeology Act (MS 138.31-.42).

BOLTON & MENK
Real People. Real Solutions.

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Phase IA Archaeology Literature Review for the Centennial Office Building Demolition Project, Saint Paul, Ramsey County, Minnesota

Prepared for Wold Engineers and Architects

Author(s)

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April 2026

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ABSTRACT

This report has been prepared for the State of Minnesota and relevant agencies in their review to determine whether the planned demolition of the Centennial Office Building at 658 Cedar Street will affect important archaeological resources.

This report contains the results of a Phase IA archaeology literature review (Phase IA) conducted on behalf of Wold Engineers and Architects and the State of Minnesota for the Centennial Office Building demolition project. A Phase IA is a preliminary review of existing information to determine if further investigation is needed. The findings of this report support further consultation with the State Historic Preservation Office (SHPO) in order to determine appropriate treatments and to seek agreement on how to avoid and mitigate any adverse effects.

The project includes the demolition of the Centennial Office Building located at 658 Cedar Street within the Minnesota State Capitol Mall. This project is located within Section 31 of Township 29 North, Range 22 West, Saint Paul, Ramsey County, Minnesota. The total project area is approximately 2.89 acres. This proposed project area is also within Minnesota State Historic Preservation Office (SHPO) Archaeological Region 4e (Central Lakes Deciduous East). SHPO, working with the Office of the State Archaeologist (OSA), divides the state into archaeological regions based on present and past environments and early Native American culture, settlement, and land use (Gibbon, Johnson, and Hobbs 2002). These regions provide a consistent framework for predicting where archaeological sites might be found. Details on Archaeological Region 4e can be found in the **Geological & Environmental Contexts** section.

As the project involves non-federal public lands associated with existing State property, the project is subject to review under the Minnesota Field Archaeology Act (MS 138.31-.42). This law requires,

> *state and other governmental agencies to comply with and aid in the enforcement of provisions of sections 138.31 to 138.42… When archaeological or historic sites are known or, based on scientific investigations are predicted to exist on public lands or waters, the agency or department controlling said lands or waters shall use the professional services of archaeologists… to preserve these sites. When significant archaeological or historic sites are known or, based on scientific investigations, are predicted to exist on public lands or waters, the agency or department controlling said lands or waters shall submit construction or development plans to the state archaeologist and the State Historic Preservation Office for review prior to the time bids are advertised (MS 138.40 Subd. 1-3).*

During initial consultation between the project proposer and SHPO, the project proposer indicated that this project would follow the environmental review process that is utilized for state buildings listed on the National Register of Historic Places (NRHP). This is based on the Centennial Office Building (RA-SPC-06313) being designated as contributing to the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132), which has been determined to be eligible for listing in the NRHP. SHPO explained that a historic study of the Capitol Mall Historic District was currently underway and was projected for completion in 2026. To date, Part 1 of the Capitol Mall Historic District study was completed in 2024, and Part 2 was completed in August 2025 with a recommendation that the Minnesota State Capitol Mall Historic and Archaeological District is eligible for listing on the NRHP. The Part 2 reports were under review by SHPO at the time of this Phase IA preparation. Given the Centennial Office Building is not listed on the NRHP, this would be a discretionary EAW. As such, the project proposer further agreed to consultation regarding the proposed demolition project as outlined under the Minnesota Historic Sites Act (MS 138.661-.669). The discussion about the architecture/history for this project can be found in the report, *Architecture/History Study of the Centennial Office Building Demolition Project, Saint Paul, Ramsey County, Minnesota* (**Appendix A**).

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This report follows the guidelines outlined in the *State Archaeologist's Manual for Archaeological Projects in Minnesota* (Anfinson 2011). Kelly Wolf, MA, RPA, served as Principal Investigator for this project. Wolf meets the requirements of a professional archaeologist, historian, and architectural historian under the Secretary of the Interior Professional Qualifications Standards. To begin the Phase IA archaeological study, a literature review and background research was conducted by the Bolton & Menk, Inc. cultural resources team through October 2025. The objectives of this Phase IA were to 1) summarize data/information of previously recorded archaeological sites and cultural resource surveys within the Study Area; and 2) determine if further archaeological investigation is recommended.

The proposed project includes the Centennial Office Building, which has been previously inventoried with SHPO as RA-SPC-06313. Since 2016, this building has been considered eligible for listing in the NRHP as a contributing resource to the NRHP eligible Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132). A Study Area was established that includes a 1-mile research radius for archaeological resources. Within the 1-mile radius, twenty-two previously recorded archaeological sites and one alpha site were identified, and 45 previous cultural resources surveys have been previously conducted. Of the previously recorded archaeological sites, 6 have been determined eligible or are listed in the NRHP. An ongoing Capitol Mall cultural resources study includes all of the project area and will be discussed further within this report (see **Results** section).

A review of historic land use within the Study Area reveals that prior to the construction of the Centennial Office Building, the space was residential buildings and yards. Recent geophysical and archaeological studies conducted nearby as part of the Capitol Mall cultural resources study revealed potential for intact historic strata buried underneath fill a [redacted] Centennial Office Building. Intact historic strata was identified both in locations of known development and historically open areas. [redacted] was deemed eligible for NRHP inclusion under Criterion D and contributing to the Minnesota State Capitol Mall Historic and Archaeological District (Nienow et. al. 2025). The Centennial Office Building has an approximately 20-foot-deep basement and is unlikely to sit atop intact buried historic features. Original plan sets from 1958 and current condition plans from 2026 depict areas surrounding the building not previously disturbed to this depth, including municipal services proposed to be removed as part of the demolition, likely have impacted any remaining in-situ archaeology associated with the former residential block in this location. Further details and discussion can be found in the **Study Area Assessment** section.

Based on this Phase IA, the Centennial Office Building (RA-SPC-06313) is a contributing element to the NRHP eligible Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132). As such, **Bolton & Menk recommends that demolition of the Centennial Office Building will have an adverse effect to the eligible Minnesota State Capitol Mall Historic and Archaeological District**. It is recommended that continued consultation take place with SHPO in order to determine appropriate treatments and to seek ways to avoid and mitigate any adverse effects. Agreement on a suitable course of action will be needed before the project proceeds. Details of the results of this Phase IA study can be found within this report.

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Appendix

Appendix A: *Architecture/History Study for the Centennial Office Building Demolition Project*
Appendix B: Proposed Project Plans

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INTRODUCTION

PROJECT DESCRIPTION

Wold Engineers and Architects is preparing plans and specifications for the demolition of the Centennial Office Building located at 658 Cedar St, Saint Paul, MN 55155. The building is owned by the State of Minnesota (**Figure 1**). The total project area is approximately 2.89 acres. Located within the SW Quarter of Section 31, Township 29 North, Range 22 West, Saint Paul, Ramsey County, Minnesota (**Figure 2**), this project area is within Minnesota State Historic Preservation Office (SHPO) Archaeological Region 4e (Central Lakes Deciduous East).

The Bolton & Menk, Inc. cultural resources team was contracted to perform a Phase IA Literature Review to summarize information from known archaeological resources within/near the proposed project area documented through October 2025 and to make recommendations regarding whether additional investigation is necessary. The Centennial Office Building demolition project is subject to review under the Minnesota Field Archaeology Act (MS 138.31-.42). This report meets the requirements outlined in the *State Archaeologist's Manual for Archaeological Projects in Minnesota* (Anfinson 2011). Kelly Wolf, MA, RPA, served as Principal Investigator for this project. Wolf meets the requirements of a professional archaeologist, historian, and architectural historian under the Secretary of the Interior Professional Qualifications Standards.

Information contained in this report relating to the nature and location of archaeological sites is considered private and confidential and not for public disclosure in accordance with the Minnesota Field Archaeology Act (MS 138.31-.42).

RECOMMENDED STUDY AREA

The scope of work calls for the complete dismantling of the multi-story Centennial Office Building, including its foundations, footings, and utility connections (see **Appendix B** for draft plans). Structurally, the existing building consists of a cast-in-place concrete substructure supported on piles and pile caps, with a superstructure of steel columns, beams, and girders topped by composite concrete floor decks. The exterior features granite veneer over brick masonry, complemented by aluminum storefronts and windows. The roof is finished with a membrane roofing system. Interior partitions are made up of masonry, gypsum board with metal studs, and wood panels. The building and all related infrastructure—such as the brick smokestack, above-ground fuel tank, concrete pump house, and retaining walls—will be removed. All elevators will also be decommissioned and removed. Sanitary sewer and drinking water services will be removed to the main; gas and electric services will be disconnected in coordination with local providers. The exact location of underground piping is unknown at this time.

To preserve the portions of the existing tunnel system outside of the footprint of the Centennial Office Building, the current design calls for two egress doors to be added—one on the northwest side and one on the southwest side of the project area. Each egress point will feature a rectangular hatch measuring 14 feet 4 inches by 5 feet 8 inches, surrounded by a concrete collar to facilitate maintenance access. These hatches will not be connected to sidewalks or other pedestrian infrastructure, as they are intended solely for emergency or maintenance use. Pedestrian tunnel access from the Veterans Service Building and Judicial Center will be blocked, and the curb, gutter, pavement, and vegetated areas will be restored where utilities have been removed.

Once demolition is complete, approximately 24,700 cubic yards of compacted fill will be used to fill the foundations and basement. The site will then be graded to facilitate stormwater drainage and blend with the surrounding area. The area will then be converted into open landscaped green space. The site will be graded and planted with grass and vegetation to provide a clean and functional outdoor area.

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The southeast portion of the site will be sloped to create an infiltration area with an 1,800 square foot bottom at the elevation of 804 feet to contain temporary standing water. The infiltration area is designed with layered landscaping to support both stormwater management and vegetation growth. The surface layer will have grass planted in 6 inches of topsoil, providing a green, stabilized cover. Around planted vegetation, shredded wood mulch (MnDOT Type 6) will be applied at a minimum depth of 3 inches to retain moisture and suppress weeds. Trees will be planted with a root ball or pot and supported by stakes for stability. Beneath the mulch will be a specially formulated infiltration soil mixture, engineered to promote water absorption and root development. The area will be bordered with typical landscape edging and enclosed with a sediment control log around the full perimeter, which will be removed once upslope areas are permanently stabilized. Prior to planting, the subgrade will be excavated using a toothed bucket backhoe, and soils will be ripped 6 to 9 inches deep to alleviate compaction. The bottom of the excavation will be flat and filled with soil that transitions between existing poorly graded (SP) sands and a sand subbase, ensuring proper drainage and structural support for the vegetation above.

The State of Minnesota intends to direct at least 75% of demolition waste toward reuse and recycling. This involves removing and dismantling usable components from the building before demolition, allowing for the reuse of materials and reducing waste directed to landfills. Approximately 12,350 cubic yards of crushed concrete debris will be reused on-site as compacted fill under Minnesota's standing beneficial use allowance. This sustainable approach replaces roughly half of the required new fill and diverts an estimated 12,000 tons of material from landfills. On-site crushing will not be permitted; instead, the concrete debris will be transported to a contractor-provided location for processing and then returned to the site for reuse. The remaining fill needed will meet MnDOT 3149.2H Select Granular Borrow specifications or a similar standard to minimize settlement and ensure the material is suitable for future construction.

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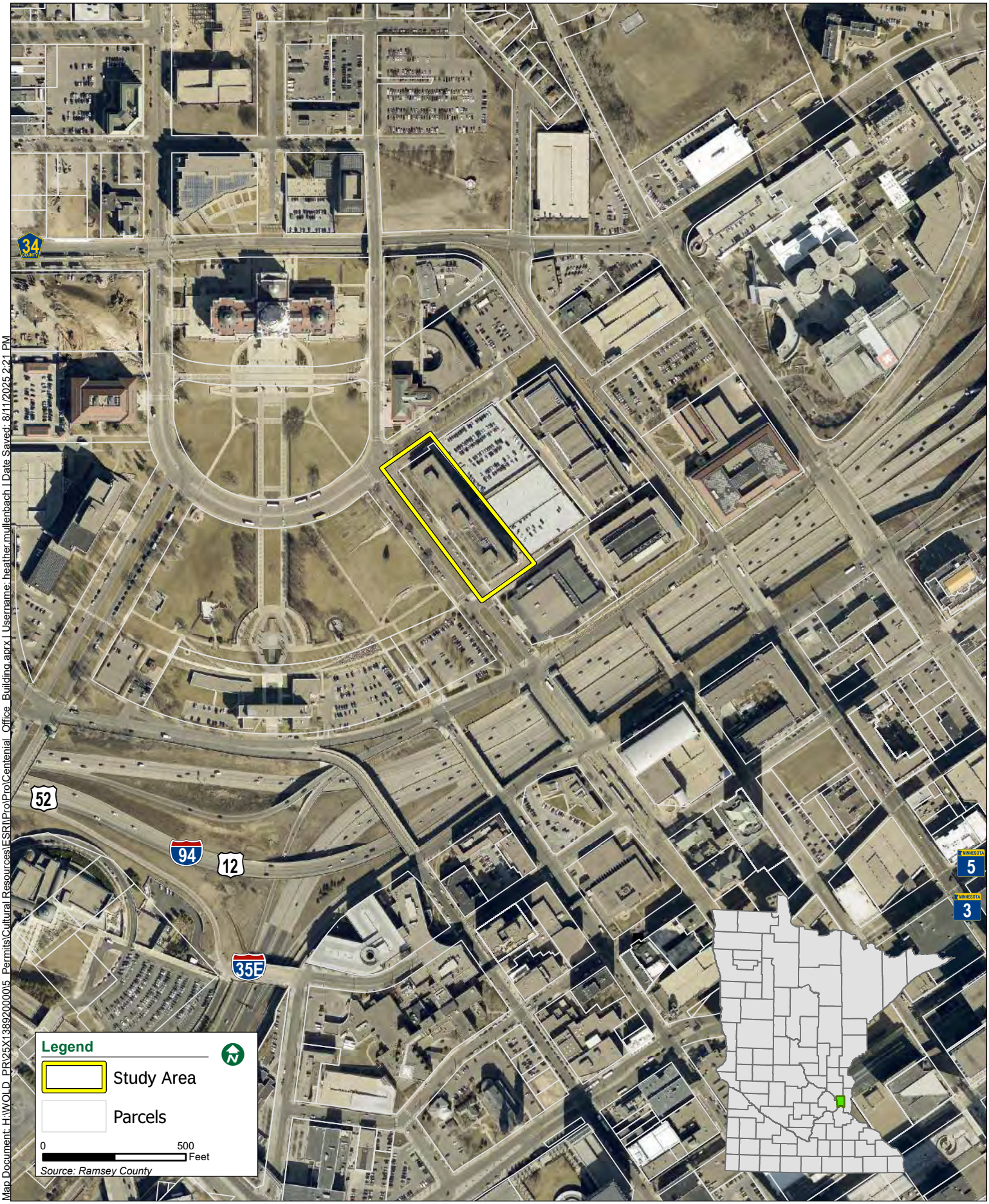
Centennial Office Building Demolition Project

Wold Architects

Figure 1 - Aerial Location

August 2025

BOLTON & MENK



Map Document: H:\WOLD_PR\25X1389200005_Permits\Cultural Resources\ESRI\Pro\Pro\Centenial_Office_Building.aprx | Username: heather.mullenbach | Date Saved: 8/11/2025 2:21 PM

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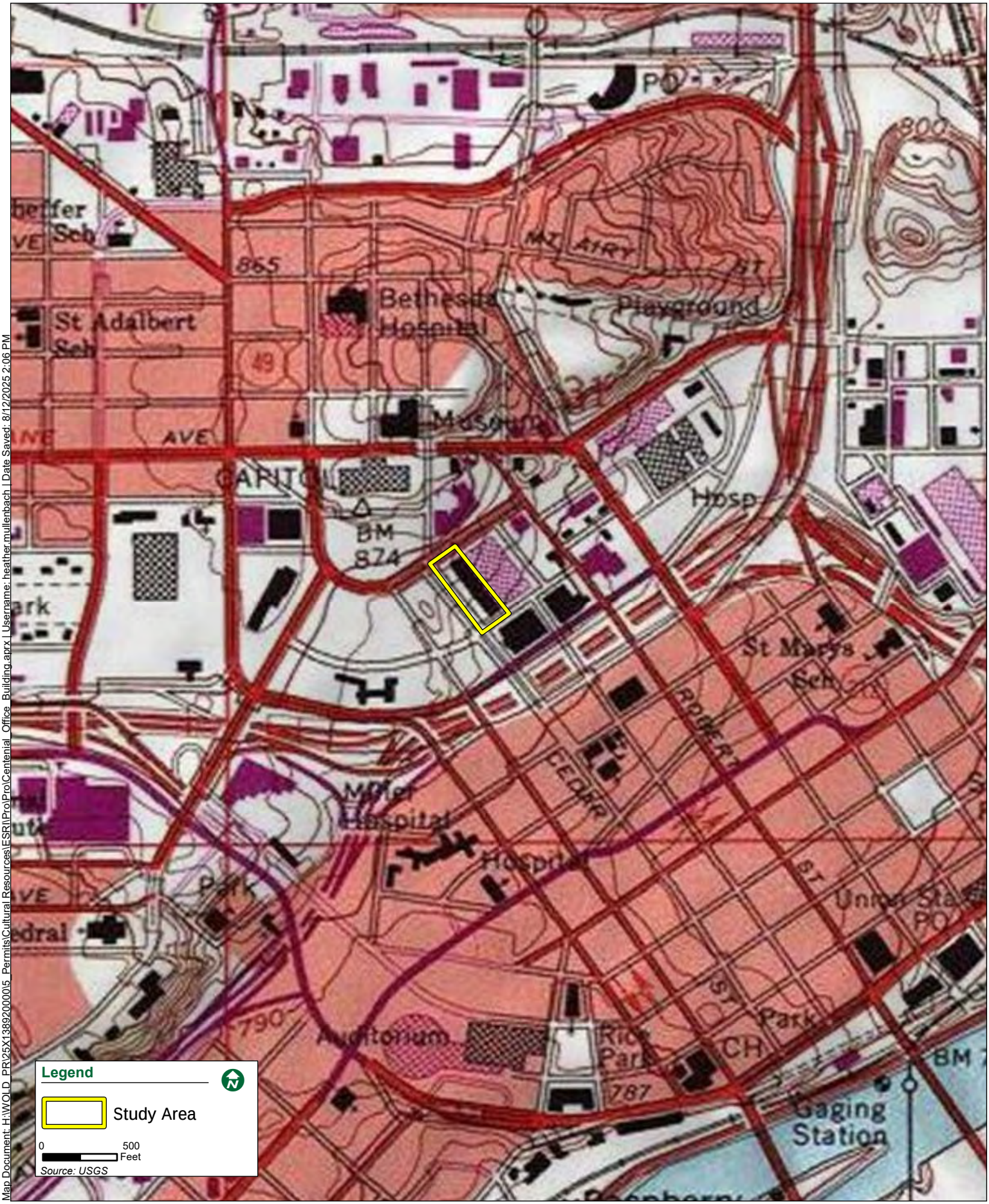
Centennial Office Building Demolition Project

Wold Architects

Figure 2 - USGS Location

August 2025

BOLTON & MENK



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METHODOLOGY/RESEARCH DESIGN

OBJECTIVES

Objectives for this Phase IA archaeological literature review are as follows:

1. Summarize data/information regarding previously recorded archaeological sites and cultural resource surveys within/near the Study Area.
2. Determine if further archaeological investigation is recommended.

METHODS

Literature Search

Background research was completed to identify previously recorded archaeological sites documented through October 2025 within approximately 1 mile of the Study Area. This research included reviewing cultural resources reports, site forms, maps, and other available information. The Office of the State Archaeologist (OSA) Online Portal was utilized as a repository of information on previously recorded archaeological sites in the state. Historic aerial imagery of the project area was reviewed in order to understand the past development of this area and how potential and existing archaeological site areas have been impacted through time. Data in state site files regarding previously completed cultural resources surveys within approximately 1 mile of the Study Area were reviewed on June 18, 2025, during in-person research at SHPO.

SETTING

The project is a 2.89-acre plot located in downtown Saint Paul's Capitol Mall area in an urban/civic setting. This location is on an upland area approximately one mile from the Mississippi River (**Figures 1** & **2**). The project area is confined to the building footprint and construction zone of the Centennial Office Building located at 658 Cedar Street. Cedar Street runs northwest-southeast on the west side of the building, which is bounded by E Columbus Avenue to the south, parking lots/Central Park Avenue E to the east, and Park Street to the north.

GEOLOGICAL & ENVIRONMENTAL CONTEXTS

The Study Area is within a Terrace landform in a landscape of Catastrophic Flood, according to the MM4 Landform Layer (Hobbs 2019a). According to the Web Soil Survey, soils in the area are entirely comprised of urban land soils. Bedrock within this portion of Ramsey County is composed of Saint Peter Sandstone (Mossler and Bloomgren, 1992).

The Study Area is in SHPO Region 4e – Central Lakes Deciduous East, an archaeological resource region that includes all of Anoka, Benton, Cass, Chisago, Crow Wing, Hennepin, Isanti, Mille Lacs, Morrison, Ramsey, Sherburne, Stearns, Todd, Wadena, Washington, and Wright Counties, as well as portions of Becker, Dakota, Douglas, Kandiyohi, Kanabec, Meeker, Otter Tail, Pine, Pope, and Swift Counties (extending into west central Wisconsin). SHPO Regions are based on features of the natural environment such as vegetation and hydrology that are believed to have been important contributors to regional cultural diversity in the precontact and contact periods (Gibbon et al. 2002). According to the MM4 Historic Vegetation Model that draws from digitized GLO map data, historic vegetation for the Study Area would have been dominated by prairie, with a deciduous savanna understory (Hobbs 2019b). Late Holocene period subsistence resources would have included white-tailed deer, fish, waterfowl, wild rice and acorns (Gibbon et al. 2002).

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CULTURAL CONTEXTS

PALEOINDIAN TRADITION

The Paleoindian Tradition in Minnesota occurred from approximately 13,000 to 9,000 years before present (BP, present defined as 1950 upon the development of radiocarbon dating methods). The Paleoindian Tradition in Minnesota is primarily known based upon the isolated finds of projectile points, mostly found during uncontrolled surface collections (Buhta et al. 2011). As Buhta et al. (2011) write, very little progress in our understanding of the Paleoindian occupation in Minnesota has taken place since documentation of the Brown's Valley burial (21TR0005) in the 1930s. This dearth of information is largely due to the fact that systematic sampling has failed to identify single-component Paleoindian assemblages of any size (Buhta et al. 2011).

The Paleoindian Tradition is broadly divided into two cultural groups, the earlier Llano (13,000 – 10,000 BP) and the later Plano (10,000 – 9,000 BP), which are based primarily on their point typology (Higginbottom 1996). Llano points are fluted, with Clovis being the earliest documented complex, found primarily in central and southeastern Minnesota, and Folsom being the most commonly occurring, particularly in western and southern Minnesota (Gibbon 2012). The Llano complexes were largely replaced around 10,000 BP by Plano points, which are unfluted (Forsberg 2003). Toolkits during the Paleoindian Tradition would have minimally included spear points, scrapers, drills, gravers, and hammerstones, but may have also included bone and wooden tools (Mississippi Valley Archaeology Center [MVAC] 2004a).

There are no excavated archaeological materials that can be definitively attributed to the makers of Clovis or Folsom projectile points in Minnesota, although parts of Minnesota would have been inhabitable throughout the Wisconsin Glaciation (Buhta et al. 2011). There have been several finds of woolly mammoth skeletal parts and teeth at Minnesota localities, but none has ever been indisputably associated with human activity (Johnson 1988). Similarly, although late Paleoindian points have been found throughout Minnesota, Plano sites in Minnesota are also rare and even fewer have been systematically excavated. Only two of these sites have associated radiocarbon dates: the Brown's Valley site (21TR0005) in Traverse County, which dates to around 9,000 BP, and the Bradbury Brook site (21ML0042) in Mille Lacs County, which dates to around 9,200 BP (Forsberg 2003).

With the Paleoindian Tradition in Minnesota defined almost entirely by isolated artifact find spots, this period in Minnesota is understood primarily through paleoecological reconstructions and by extending what is known about Paleoindian lifeways elsewhere in North America to the Upper Midwest (Buhta et al. 2011). Paleoindian subsistence appears to have been reliant upon a combination of large game hunting, including caribou, bison, deer, moose, mammoth, and fish and floral resources that returned to the previously glaciated regions shortly after the ice retreated (Buhta et al. 2011). Paleoindian settlement patterns are poorly understood, although it is hypothesized that the hunters and gatherers may have lived in small family groups, traveling to find the floral and faunal resources described above (Gibbon 2012; MVAC 2004b).

It should also be noted that there has been an increasing argument for an even earlier complex in the Paleoindian Tradition, typically referred to as Pre-Clovis, with dates between almost 20,000 – 13,000 BP. While some areas of Minnesota would have been ice free by around 15,000 BP and all but the northernmost areas would have been habitable by 13,750 BP, the presence of Pre-Clovis in Minnesota is still hotly debated (Buhta et al. 2011).

ARCHAIC TRADITION

The time span between the Paleoindian and Woodland Traditions (roughly 9,500 – 2,500 BP) encompasses several thousand years which have all been attributed to the Archaic. The Archaic

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Tradition is arguably the most poorly understood precontact period and was originally defined based on the lack of the distinct lithic materials from the preceding Paleoindian Tradition and the subsequent burial mounds and ceramics that characterize the Woodland Tradition (Buhta et al. 2017). However, as more information about this period has come to light, it has become increasingly clear that a) there was not a clear distinction between the Paleoindian and the Archaic Traditions, but rather a great deal of overlap in subsistence patterns and lithic material usage, and b) the Archaic is characterized by its own traditions, based on subsistence and settlement patterns, technological and cultural practices, and other factors that differed from the traditions before and after, and not just by a lack of distinctive cultural materials (Buhta et al. 2017; McElrath et al. 2009; McElrath and Emerson 2009).

The Archaic occurred during a time of pronounced post-glacial environmental changes, which included the extinction of the large Pleistocene mammals. In Minnesota, this period was marked by drastic climatic shifts and corresponding changes in vegetation and other resources for its occupants. During the Early Archaic, less fire-resistant forests dominated the landscape with primarily coniferous species in the north and deciduous species in the south. The Middle Archaic saw the expansion of drier conditions and prairie environments expanded to cover even the northernmost extents of Minnesota. The prairie and oak savannas reached their maximum during this period, concurrent and likely intensified by the catastrophic drainage of Lake Agassiz. Finally, during the Late Archaic, forests once again replaced prairies, although at this time the forests were characterized by more fire-resistant species (such as oaks and aspens). The re-expansion of forests in the Late Archaic began with mainly deciduous species before coniferous species returned and intensified, particularly across northern Minnesota, before eventually stabilizing into the three distinct biomes of prairie, deciduous forest, and coniferous forest familiar in Minnesota today (Buhta et al. 2017).

Environmental changes through the Archaic necessitated changing subsistence strategies. During the heavily forested periods, forest resources such as deer were heavily utilized. However, in the Middle Archaic, the spreading of grassland environments introduced bison and other prairie species. In addition to climate, fire may have been one of the primary controls on vegetation during the period. Given that humans use fire for hunting and other activities, it is possible that they had considerable influence over vegetation change (Clark et al. 2001; Grimm 1984; Nelson et al. 2006). By the Late Archaic, the stabilization of the climate and vegetation to modern conditions allowed for specialization based upon the use of specific resources, and the development of distinctive lifeways based on these adaptations (Gibbon 2012). Environmental changes and the resultant geographic shifts in biomes have caused changes in the territories between the different Archaic adaptations – and thus overlapping and commingled archaeological deposits.

Known technological changes to occur during the Archaic period include the development of ground stone and copper tools, as well as the early horticulture of plants such as squash. The Archaic also marks a technological shift from larger, hafted, bifacially worked, lanceolate artifacts to smaller lithic specimens, namely stemmed and notched points. This shift in lithic usage is thought to be indicative of the application of atlatl technology (Buhta et al. 2017). In aquatic settings throughout the Midwest, the use of seine weights, indicative of intensified fishing via cast nets, has also been observed (Struever and Holton 2000).

Other information regarding changes in subsistence, settlement patterns, demographics, social hierarchy, economic structure, political relationships, and religious practices are largely unknown. Most sites that are affiliated with the Archaic are multi-component and most of these sites have experienced considerable amounts of mixing due to rodent and agricultural activity. Some Archaic sites are deeply buried, with some even found below the present water table. Few datable and/or diagnostic artifacts have been found within discrete Archaic horizons (Cummings et al. 2017). Only three single-component Archaic sites that have been excavated in Minnesota have associated radiocarbon dates, and only five

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sites with Archaic components include both diagnostic artifacts and radiocarbon dates (Buhta et al. 2017).

WOODLAND TRADITION

The Woodland Tradition in Minnesota spans from 1000 BC to AD 1750 (Arzigian 2008; Buhta et al. 2014; Gibbon 2012). The Woodland in Minnesota was once thought to represent the simultaneous adoption of ceramic technology, mound interment, and plant cultivation (Anfinson 1979; Buhta et al. 2014); however, the transition from Archaic to Woodland was more complicated, with societies selectively accepting these practices and technologies at different times (Theler and Boszhardt 2005). As with the transition from the Paleoindian to Archaic Traditions, the beginning of this period does not represent a sudden nor drastic change from the preceding period. Instead, the transition to the Woodland Tradition is characterized by an intensification of local resource bases and regionalization of peoples on the landscape. Still, the presence of pottery is generally used to identify Woodland and later contexts (Arzigian 2008).

Also during this period, the use of new resource bases (i.e. the cultivation of domesticated crops) led to greater sedentism (Gibbon 2012). Thus, while implements were similar to those of the preceding Archaic complexes, material culture types found in Woodland contexts shifted due to cultural change and regionalization as modes of resource exploitation specialized for local environments, a trend attributed at least in part to the continued stabilization of local environments. As a result of this regional specialization, there are a wider variety of forms in both projectile points and ceramics across the different complexes. Compared with the Archaic, stemmed points are rarer with side-and corner-notched points of several varieties supplanting them. Scrapers, knives, drills, awls, and punches of chipped stone persisted, and as well as ground-stone implements. Although ceramics varied in their composition and decoration by complex, some of the earliest examples in the state come from thick-walled and conical vessels and, over time, these generally become thinner and more globular. Shell tempering eventually would allow for a more water-tight, less permeable vessel (Arzigian 2008). Copper continued to be used for awls and ornaments, although the frequency of copper articles is lower than in the Archaic.

At the same time this regionalization was taking place on the landscape, contact with peoples from far-removed societies also occurred. This expanded interaction sphere is visible through the occurrence of exotic items such as galena, obsidian, and shark teeth, to name a few, along with changes in ceramic stylistic attributes.

During the Late (Terminal) Woodland, after AD 500 or so, the continued intensification of local resources through time led to even further regionalization. During the Terminal Woodland, population size increased, as did the size and number of habitation sites. Agricultural societies focused on maize horticulture and residing in associated palisaded villages in southern and western Minnesota (Plains Village cultures). The Effigy Mound complex in the Upper Mississippi River valley, and semi-sedentary villages focused on intensive wild rice harvesting in northern Minnesota (Psinomani Complex). Both deer and bison continued to be important resources, and many Woodland sites reflect season occupation as the inhabitants moved back and forth between the prairies and the woodlands (Arzigian 2008).

CONTACT PERIOD

The Contact Period is defined as the period of initial contact between Europeans and the tribes of Minnesota. While the territory now known as Minnesota was legally under the control of Spain from 1763 to 1800, French and British presence predated the United States' acquisition of the territory with the Louisiana Purchase in 1803. The French presence in Minnesota began with the exploration of the Great Lakes in the early 1600s (Dobbs 1988). For this reason, there is some overlap between the Late Woodland and the early Contact Period (c. 1650).

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The fur trade was the major catalyst for French interest and many early trading posts in northern Minnesota and along the Mississippi River were established by French fur traders. However, when the British defeated the French in the French and Indian War in 1760, French influence in Minnesota essentially ended while the presence of the British intensified. The founding of two major fur trade companies (Hudson's Bay and the North West Company) solidified British interest in Minnesota and British fur traders expanded the French trading post network through the interior of the state, primarily following the major river routes along the Minnesota, Red, and Mississippi Rivers (Dobbs 1988).

While officially the United States' political presence in Minnesota began in 1803 with the Louisiana Purchase, in practice it began following the establishment of the first permanent US military presence: the founding of Fort Snelling in 1819 (Dobbs 1988). Zebulon Pike claimed to have secured 100,000 acres from the Dakota in 1805 for the erection of a US fort, and the confluence of the Minnesota and Mississippi Rivers, the ancestral birthplace for the Dakota people, was selected for this purpose. The initial function of the fort was to secure the control of US interests in the fur trade and to quell hostilities between indigenous groups and the encroaching settlers moving westward (Cassady and DeCarlo 2018).

In addition to expanding and shifting European interests in Minnesota, the Contact Period was also a time of significant tribal movements. When the French first arrived in Minnesota, members of related Indigenous groups referred to by the Europeans as the "Sioux" (primarily the Dakota, Nakota, and Lakota) occupied most of the state. However, around the mid-1700s, Ojibwe tribes that had been established around the Great Lakes began moving south and west from the area of Lake Superior. As these groups continued to expand into Minnesota, periodic conflicts with the Dakota eventually culminated between 1736 – 1760 in outright warfare (Minnesota Historical Society [MNHS] n.d.). The US attempted to impose peace between the tribes by establishing a border between them with the Treaty of Prairie du Chien in 1825. However, the treaty did little to resolve matters between the Dakota and the Ojibwe and was later used by the US as justification for later land cessions from both groups (Milwaukee Public Museum 2022). Ultimately, the end to intertribal conflicts was the overwhelming challenges imposed upon Indigenous peoples by Euro-American settlers (MNHS n.d.).

HISTORIC/POST-CONTACT PERIOD

The start of the historic or post-contact Period in Minnesota is marked by the major land cessations that began in 1837 between the U.S., the Dakota and the Ojibwe (Anfinson 1994). By 1851, the Dakota had ceded all of their land in Minnesota in the Treaty of Traverse des Sioux. The Dakota were assured a swath of land, 10 miles wide, on either side of the Minnesota River following the cessations with the "Upper Sioux" (Sisseton and Wahpeton) settling above the river and the "Lower Sioux" (Mdewakanton and Wahpekute) settling below the river. However, in 1858, the same year that Minnesota was granted Statehood, an additional treaty allowed for Euro-American settlers to occupy the land on the north side of the Minnesota River (Lass 1998).

Annuities to the Lower Sioux Agency were delayed in 1862, and a portion of the starving, mistreated, and frustrated Dakota retaliated, leading to the start of the U.S.-Dakota War. Following the war, only a small number of Dakota remained in Minnesota. For all intents and purposes, by 1863, due to the government abrogating all Dakota treaties, it was illegal to be Dakota in the state of Minnesota (Anfinson 1994). The Ojibwe, meanwhile, were eventually forced to retreat onto a series of reservations established from 1854 – 1867 as Euro-Americans, drawn by the ample farmland and dense forests for lumbering available in Minnesota, took control over the land (OSA n.d.).

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HISTORIC RAMSEY COUNTY AND CITY OF SAINT PAUL

Precontact and Early Ramsey County

Ramsey County was one of the initial nine counties to be established in the Minnesota Territory in 1849, nine years before Minnesota would officially become a state. The county was named in honor of Alexander Ramsey, the first governor of the territory and second mayor of Saint Paul (Upham 1920:436). At its founding, Ramsey County was once much larger, but portions of the county were divided up into Anoka, Isanti, Mille Lacs, and Aitkin Counties in 1857 (Upham 1920:436). Today, Ramsey County is the smallest county in Minnesota by area, it is also one of the most urbanized with a long history of occupation. The county seat of Ramsey County is also the state capital, Saint Paul.

Before the establishment of Ramsey County, the first inhabitants of the area were Dakota and other native peoples. In fact, Saint Paul is also the location of some of the most culturally significant sites for Dakota and many other Tribal Nations. The nearby confluence of the Minnesota and Mississippi Rivers is known as Bdóte and is considered the center of the earth and origin point for Dakota peoples (Minnesota Historical Society [MNHS] 2021). Ramsey County is also the location of a number of other important precontact burial mound sites, such as Wicaȟapi (formerly called Indian Mounds Regional Park), and both precontact and contact period settlements, such as Taku Waḳaŋ Ṭi̇pi and Kaposia, that demonstrate the long and rich history of the region prior to the arrival of Euro-Americans.

While the United States' political presence in the territory that would become Minnesota began in 1803, it more appropriately began with the first permanent U.S. military presence: the founding of Fort Snelling in 1819 (Dobbs 1988). Zebulon Pike claimed to have secured 100,000 acres from the Dakota in 1805 for the erection of a U.S. fort, and the confluence of the Minnesota and Mississippi Rivers was selected for this purpose. The function of the Fort initially was to secure the control of U.S. interests in the fur trade and to quell hostilities between indigenous groups and the encroaching settlers moving westward (Cassady and DeCarlo 2018). Major land cessations began in 1837 between the U.S. government and the two major indigenous groups in the area: the Dakota and the Ojibwe (Anfinson 1994). By 1851, the Dakota had ceded all of their land in Minnesota in the Treaty of Traverse des Sioux (Lass 1998).

Early Saint Paul

Euro-American settlement of Ramsey County followed the establishment of Fort Snelling in 1820 at Bdóte. Saint Paul was the first major settlement outside of the fort, developing approximately 3 miles to the south. This location was initially established in 1838 by Pierre Parrant, a fur trapper who became an infamous liquor distiller after he built a cabin near the site of Fountain Cave where he made and sold alcohol to the local tribes and soldiers from the nearby fort (National Park Service [NPS] 2020). While Parrant was evicted from the property by Fort Snelling authorities in 1840, the fledgling settlement was referred to by Parrant's nickname of Pig's Eye, until it was renamed Saint Paul, after the settlement's first Catholic church, constructed in 1841 (Upham 1920:438, 442).

Saint Paul's location on the Mississippi River made it an early commercial hub for river travel. As a result, the early town had two major commercial districts related to the upper (Irvine Park) and lower (Lowertown) steamboat landings (Schmidt 2018:10). Over time, development increased on the blufftop between these landings as more businesses and workers settled there (Third Street/Kellogg Boulevard). Saint Paul was organized as a town in 1849, but by 1854, it had already grown enough that it was incorporated as a city and became the capital of the newly founded state of Minnesota (Schmidt 2018:10; Upham 1920:439).

During the 1860s and 1870s, railroads brought additional growth to Saint Paul and by the 1890s, railroad transportation had overtaken steamboat travel, transforming the city into a "railroad town" (Schmidt 2018:10). During this time, Saint Paul experienced a population boom, increasing three-fold from 41,000 in 1880 to 133,581 in 1890 (Murphy 1981:12).

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Capitol Mall Historic Context

Minnesota territory was established in 1849, with Saint Paul as its capital city. During the 1850s, the population of Saint Paul increased dramatically. By 1858, the railroads were constructed through the city, with residential districts established as a mix of Euro-American and Black families with various socio-economic backgrounds. In 1881 the original state capitol building, located ¾ miles south of the present-day location, burned down and was proposed for reconstruction (Gallo, et al. 2022).

The Board of State Capitol Commissioners negotiated parameters for the capitol redesign process in 1893, designating a section between Cedar Street to the east, Park Ave to the west, University Ave to the north, and Central Ave/Wabasha to the south as the new capitol grounds. In 1895 an invitation only designer's competition was held, where local architect Cass Gilbert was awarded the contract for the Capitol Mall design. Gilbert was involved in the City Beautiful movement; an architectural movement aimed at beautifying a city in order to inspire better civic and social engagement. The City Beautiful movement drew from European plans for boulevards, plazas, and monuments in Neoclassical and Beaux Arts styles to replace haphazardly built structures seen as unsightly. Though it was not originally part of the Capitol Commissioners' budget, Gilbert negotiated for including landscaping as part of the capitol redesign project, which eventually resulted in the Capitol Mall we have today. Groundbreaking for the state capitol building began in 1896 and was completed in 1904. Originally located within the capitol building, the Minnesota Historical Society was awarded its own structure built between 1916-1918 on a lot previously owned by William L. Ames. Between 1918 and 1932, few undertakings were completed within the capitol area. In 1932, the State Office Building was proposed to be located west of Park Ave and south of Aurora. Land clearance for the State Office Building included the demolition of eight residential buildings within the area. The displacement of residences within the Capitol Mall area continued through the 20th century (Gallo, et al. 2022).

During the Great Depression and beginning of World War II, national interest was focused on economic recovery and national security, which shifted attention away from the realization of Gilbert's plan for the Capitol Mall. In 1944, plans for capitol area development continued with the Saint Paul Planning Board announcing plans for a war memorial. Clarence H. Johnston Architectural Associates and landscape architectural firm Morell and Nichols, Inc. were hired to develop a new master plan for the Capitol Mall, which included a war memorial, known as "Nichols Plan." The Nichols Plan included numerous sculptures and monuments throughout the Capitol Mall. In 1945 Governor Thye appointed the Veterans Service Building Commission to oversee the memorial building, which resulted in the state legislature appropriating funds to acquire 103 acres of land running south from the capitol to the present day I-94 boundary. Land acquisition for the Capitol Mall contributed to an increasing housing shortage within the capitol area, with remaining residences seen as unsightly. The 1949 Federal Housing Act resulted in the United States Department of Housing and Urban Development, which created funding and legal backing for housing development, providing relief to displaced Saint Paul families (Gallo, et al. 2022).

The Capitol Mall underwent another period of development after World War II representative of the Urban Renewal architectural movement. Like the City Beautiful movement, Urban Renewal was aimed at attempting to solve socio-economic problems in American cities through large scale reconstruction. This coincided with the approval of the proposed I-94 route by the Minnesota Highway Department in 1947 and the signing of the Federal-Aid Highway Act of 1956 by President Eisenhower. In 1966 land clearance began for the I-94 project and two years later the freeway was open to the public. The result of the construction of I-94 and I-35 south of the Capitol Mall, as well as the realization of the Nichols Plan for the Veterans Memorial, shaped the present layout of the Capitol Mall to resemble a truncated version of Gilbert's original plan. The Nichols Plan included a redesign of Central Ave to be the curvilinear form seen today. Two radial approaches flanking the Capitol Mall were conceived in the late 1950s, including the Transportation Building to the west constructed 1957-1958 and the Centennial Office Building to the east constructed 1958-1960 (Gallo, et al. 2022).

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RESULTS

LITERATURE REVIEW

The OSA Portal was searched for archaeological sites recorded through October 2025, within 1 mile of the Study Area. In-person research was conducted at SHPO on June 18, 2025 to identify previously completed cultural resources surveys within 1 mile of the Study Area. This research also identified if National Register of Historic Places (NRHP) eligibility status has been previously determined for each resource identified.

Archaeological Sites Within 1 Mile of Study Area

There are twenty-two previously recorded archaeological sites and one alpha (unconfirmed) site within 1 mile of the Study Area (**Table 1; Figure 3**). Of these sites, 6 are considered eligible or listed on the NRHP. Alpha sites are site leads based on "survey reports, maps, historic documents, or correspondence" that are typically recorded at a quarter-quarter section level if more detailed locational data is not available and have not been verified by formal archaeological investigation (Anfinson 2005:6). Sites located within 0.25 miles of the Study Area are further discussed below the table. Architecture/history resources are discussed in the report, *Architecture/History Study of the Centennial Office Building Demolition Project, Saint Paul, Ramsey County, Minnesota* (**Appendix A**).

Table 1: Previously Recorded Archaeological Sites Within 1 Mile of Survey Area

Site Number	Site Name	Description / Cultural Affiliation*	Distance from Survey Area	NRHP Eligibility**
21Rau	St. Anthony Avenue Neighborhood	[redacted]	[redacted]	Unevaluated
21RA0014	CM St P&P Freight House	[redacted]	[redacted]	Unevaluated
21RA0019	Ramsey House	[redacted]	[redacted]	Listed
21RA0020	Diamond Joe Freight House/Depot	[redacted]	[redacted]	Unevaluated
21RA0021	James J. Hill House	[redacted]	[redacted]	Listed
21RA0030	Central State Capitol Mall	[redacted]	[redacted]	Eligible
21RA0031	Rondo Ave. at Sears	[redacted]	[redacted]	Unevaluated
21RA0032	Washington Street Residential District	[redacted]	[redacted]	Unevaluated
21RA0035	St. Paul Glass Co. Paint Warehouse	[redacted]	[redacted]	Unevaluated
21RA0036	Dahl House	[redacted]	[redacted]	Unevaluated
21RA0037	Osborne Foundary/Old Brewery	[redacted]	[redacted]	Unevaluated
21RA0038	Lot 5	[redacted]	[redacted]	Unevaluated
21RA0039	Lowertown Neighborhood	[redacted]	[redacted]	Unevaluated
21RA0045	Harriet Island	[redacted]	[redacted]	Unevaluated
21RA0047	Armstrong House Relocation 7	[redacted]	[redacted]	Unevaluated

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Table 1: Previously Recorded Archaeological Sites Within 1 Mile of Survey Area				
Site Number	**Site Name**	**Description / Cultural Affiliation***	**Distance from Survey Area**	**NRHP Eligibility****
21RA0049	The Dakotah/Washington Hotel	[redacted]	[redacted]	Unevaluated
21RA0050	Schnelle	[redacted]	[redacted]	Unevaluated
21RA0069	State Capitol Marble Mill	[redacted]	[redacted]	Unevaluated
21RA0072	---	[redacted]	[redacted]	Unevaluated
21RA0092	William R. Merriam Mansion	[redacted]	[redacted]	Eligible
21RA0093	Bzaille's Addition	[redacted]	[redacted]	Eligible
21RA0094	Butman's Addition, Block 4	[redacted]	[redacted]	Eligible
21RA0095	Trinity Lutheran Church	[redacted]	[redacted]	Unevaluated

*inferred cultural affiliation based upon site type.
**NRHP status provided by SHPO from their records as of October, 2025.

[redacted]

[redacted]

[redacted]

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[redacted]

[redacted]

[redacted]

[redacted]

Historical Cemeteries Within 1 Mile of Study Area

A review of the OSA Portal Historical Cemeteries Study Layer, created on behalf of the Minnesota Cemetery Project (Vermeer and Terrell 2011) shows six cemeteries within 1 mile of the Study Area (**Table 2**; **Figure 4**).

Table 2: Historical Cemeteries Within 1 Mile of Study Area

Cemetery Name	Location	Distance from Survey Area	Status*	Potential Effects
Oak Hill Cemetery	[redacted]	[redacted]	Inactive	None
Oakland Cemetery	[redacted]	[redacted]	Active	None
Mount Zion Cemetery	[redacted]	[redacted]	Inactive/moved	None
Episcopal Mission	[redacted]	[redacted]	Active	None
Protestant Episcopal Mission Catholic Cemetery	[redacted]	[redacted]	Out of existence	None
Catholic Cemetery	[redacted]	[redacted]	Inactive/moved	None

*Cemetery status (i.e. active or inactive) inferred from most recent recorded death dates, in some cases.

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Previous Cultural Resource Investigations Near/Informative to the Study Area

A review of reports on file at SHPO identified 45 previous cultural resources surveys within 1 mile of the Study Area (**Table 3**). Previous survey reports were reviewed to develop a better understanding of the soils and cultural materials typically encountered in the area, as well as the historic and cultural contexts relevant to the Study Area. Two of the most recent previous surveys that include the current Study Area (Part 1 and Part 2 of the 2025 Capitol Mall Study) are highlighted below.

Table 3: Previously Completed Reports/Cultural Resources Surveys

Publication Year	Report Title	Author(s)	Distance from Survey Area	Report Number*
1981	Historic Sites Survey St. Paul and Ramsey County	Murphy, Patricia A.	0.12 miles	RA-81-2H
1987	The Minnesota Trunk Highway Archaeological Reconnaissance Survey Annual Report - 1986	Peterson, Leslie D. and William J. Yourd	0.72 miles	THY-87-01
1993	City of St. Paul, Warner Rd. (CSAH 36): Reconstruct 1.53 Miles from Jackson St. (CSAH 55) East to Childs Rd.	Peterson, R.J.	0.80 miles	RA-93-1
1993	City of St. Paul, Warner Rd. (CSAH 36): Exploratory Testing, Dating of Artifact Deposits	Peterson, R.J.	0.80 miles	RA-93-2
1994	Documentary Analysis of Potential Historic Archaeological Sites in the Proposed Construction Zone of the New Wabasha St. Bridge, St. Paul, Minnesota	Hess, D.J. and J.A. Hess	0.68 miles	RA-94-05
1994	Research Design for Phase II Archaeological Testing of the Chestnut Street Interchange Alternative B-1, Shepard Rd. Project	106 Group	0.85 miles	RA-94-06
1996	Central Corridor Hennepin and Ramsey Counties	Hennepin County Regional Railroad Authority, Ramsey County Regional Railroad Authority, Minnesota Department of Transportation	Within	XX-96-4H
1997	Literature Search for the Science Museum Relocation/Expansion Project City of St. Paul, Ramsey County, Minnesota	Ketz, A. and M. Kullen	0.66 miles	RA-97-01
1997	Literature Search for the Chestnut Street-Shepard Road Intersection City of St. Paul, Ramsey County, Minnesota	Schmidt, A. and A. Ketz	0.85 miles	RA-97-04
1997	Archaeological Monitoring and Emergency Salvage at the Department of Revenue Construction Site, St. Paul, Minnesota	Higginbottom, D.	0.13 miles	RA-97-05
1997	Research Design and Monitoring Plan for the Science museum Relocation/Expansion Project City of St. Paul Ramsey County Minnesota	Ketz, Anne	0.66 miles	RA-97-08
1998	Cultural Resources Assessment of a Proposed Metro Transit Bus Garage Site St. Paul, Minnesota	Halloran, T. and M. Frey	0.49 miles	RA-98-01
1998	Phase II Archaeological Investigation for Proposed Improvements to the Chestnut Street-Shepard Road Interchange City of St. Paul, Ramsey County, Minnesota	Abel, E. and A. Schmidt	0.85 miles	RA-98-02

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Table 3: Previously Completed Reports/Cultural Resources Surveys				
Publication Year	**Report Title**	**Author(s)**	**Distance from Survey Area**	**Report Number***
1998	Archaeological Monitoring, Emergency Salvage Excavations, and Data Recovery Excavations at the Department of Revenue Construction Site, St. Paul, Minnesota	Abel, E. et al.	0.13 miles	RA-98-03
1998	Historical Documentation for Rice Park and Surrounding Properties St. Paul, Ramsey County, Minnesota	Schmidt, A. et al.	0.53 miles	RA-98-04
1998	Cultural Resources Investigations Preliminary Design Phase Harriet Island Regional Park City of St. Paul, Ramsey County, Minnesota	Abel, E. at al.	0.51 miles	RA-98-07
1998	Archaeological Monitoring Report for the Wabasha Street Bridge Replacement City of St. Paul, Ramsey County, Minnesota	---	0.68 miles	RA-98-09
1998	Washington Street Residential District Data Recovery for the New Science Museum of Minnesota St. Paul, Minnesota	Abel, E. et al.	0.65 miles	RA-98-10
1998	Archaeological Monitoring for the Science Museum Relocation/Expansion Project City of St. Paul, Ramsey County, Minnesota	Ketz, A. et al.	0.66 miles	RA-98-11
1998	Cultural Resources Investigations Harriet Island Regional Park City of Saint Paul, Minnesota	106 Group	0.91 miles	RA-98-12
1998	Interpretive Potential for Harriet Island Regional Park City of Saint Paul	Agness, Tim	0.91 miles	RA-98-13
1999	Phase II Archaeological Evaluation Harriet Island Regional Park, City of St. Paul, Ramsey County, Minnesota	Abel, E. et al.	0.91 miles	RA-99-1
1999	Sibley Street Pedestrian Way Project, St. Paul, Minnesota	Schmidt, A.	0.55 miles	RA-99-02
2000	Cultural Resources Review of the Northeast Quadrant Property Lots 1-6, Block 6, Lots 1-6, Block 3, Lots 1-10, Block 2, St. Paul, Minnesota	Abel, L. and T. Halloran	0.48 miles	RA-00-02
2001	Field Report for the Archaeological Evaluation of Site 7 (The Plastics Lot) in Preparation for the Armstrong House Relocation for the Smith Avenue transit Hub, City of St. Paul, Ramsey County, Minnesota	Terrell, M.	0.51 miles	RA-01-03
2002	Cultural Resources Overview for the Upper Landing Park Project, St. Paul, Ramsey County, Minnesota	Terrell, M.	0.80 miles	RA-02-01
2006	Phase II and IIB/III Archaeological Investigations for the Smith Avenue Transit Hub Project, St. Paul, Ramsey County, Minnesota: Volume II Appendices	Vermeer, Andrea	0.51 miles	RA-02-2
2003	Phase IA Archaeological Resources Investigation of the Proposed Departments of Agriculture and Health Office Building/Lot S	Madson, M.	0.11 miles	RA-03-01
2003	Phase IA Archaeological Resources Investigation of the Proposed DHS Office Building/Lot T	Madson, M.	0.27 miles	RA-03-2
2003	Phase IA Archaeological Resources Investigation of the Proposed Robert Street Laboratory Building/Lot Y	Madson, M.	0.11 miles	RA-03-03

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Table 3: Previously Completed Reports/Cultural Resources Surveys				
Publication Year	**Report Title**	**Author(s)**	**Distance from Survey Area**	**Report Number***
2003	Archaeological Evaluation of the Hillside Garden Areas of the James J. Hill House (21RA0021), St. Paul, MN	Zimmerman, Larry J., et al.	0.70 miles	RA-03-6
2006	Archaeological Monitoring Report for the Wabasha Street Bridge Replacement City of St. Paul, Ramsey County, Minnesota	Vermeer, Andrea	0.51 miles	RA-06-1
2007	Re: Archaeological Potential File Search for the Union Depot Concourse, St. Paul, Ramsey County, Minnesota	Terrell, E.B.	0.74 miles	RA-07-3
2009	Archaeological Monitoring at Robert and 4th Streets, St. Paul	Gronhovd, A.	0.61 miles	RA-09-4
2009	Re: Archaeological Monitoring in Partial Fulfillment of the Archaeological Investigations Plan for the Central Corridor LRT Project	Justin, M.	0.60 miles	RA-09-5
2012	Mitigation Data Recovery Report for the University Avenue Tunnell Project, St. Paul, Ramsey County, Minnesota	Justin, Michael	0.16 miles	RA-12-03
2013	Archaeological Monitoring and Visual Reconnaissance for the Lowertown Ballpark Project, Saint Paul, Ramsey County, Minnesota	Sather, Dean T. and Laurie Ollila	0.69 miles	RA-13-1
2018	Phase IA Archaeological Resources Investigation of the Proposed Robert Street Laboratory Building/Lot Y	Terell, Michelle M.	0.13 miles	RA-18-01
2024	Literature Review and Archaeological Assessment, Bus Rapid Transit G Line, St. Paul, Minnesota	Nienow, J.L. and C. Rico	0.09 miles	RA-24-09
2024	Cultural Resources Literature Review and Assessment St. Paul OMF LRV Storage Barn Ramsey County, Minnesota	HDR, Inc.	1.00 miles	RA-24-11
2022	Historic Context Report for the Minnesota State Capitol Area Planning & Context Development Project	106 Group	Within	---
2025	Minnesota State Capitol Mall Historic and Archaeological District Architecture History Survey Report	Hess Roise	Within	---
2024	Minnesota State Capitol Mall Historic and Archaeological District: Geophysical Investigations	Jones, Geoffrey	Within	---
2025	Archaeological Identification and Evaluation Efforts, Minnesota State Capitol Mall Historic and Archaeological District, St. Paul, Ramsey County, Minnesota	Nienow, Jeremy, L., Christopher Rico, and Alexandra Hedquist	Within	---

*Report numbers based on state database (i.e. MN SHPO, OSA, etc.) filing system.

Historic Context Study: Capitol Mall Study Part 1

106 Group conducted a historic context study in 2022 for the State Capitol Area Planning and Context Redevelopment Project. This study identified three important subthemes within the capitol mall: the history of American Indian peoples within the area, late 18th century/early 19th century government intervention represented by the City Beautiful movement, and a history of what was lost in the late 19th/20th centuries. This study highlights the history of the capitol mall, including a brief overview of the land prior to development of the relocated state capitol building.

Prior to the statehood of Minnesota and Euro-American settlement in the Saint Paul area, the land was historically Dakota and Ojibwe territory. Bdóte, the confluence of the Minnesota and Mississippi Rivers,

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located 4.5 miles southwest of the Capitol Mall is the mythological origin of the Dakota people. Numerous significant sites related to Dakota history can be found near this confluence. The 2022 capitol context study identified a potential for significant Native American sites within the capitol mall area (Gallo, et al. 2022). As Saint Paul established itself as the capital of Minnesota, residential dwellings became concentrated in areas of industry and commerce. Most of the land use prior to the development of the Capitol Mall included residential dwellings and yards, brickyards, and storage/outbuildings. During the 19th century, the city made an effort to establish civic undertakings in order to inspire its citizens as part of the City Beautiful architectural movement. As the Capitol Mall transitioned from a residential to a civic hub, the city lost a number of residential neighborhoods tied to early Saint Paul, which were dispersed in newly established neighborhoods and suburbs (Gallo, et al. 2022).

Properties within the Capitol mall were evaluated for NRHP inclusion as part of this Capitol Mall study, where it was determined those associated with the Minnesota state capitol may be eligible under Criteria A, C, or D. Properties within the context of development and state history may be eligible under Criterion A if they have sufficient integrity and significance. Properties within the capitol mall which were developed prior to the mall were not determined to be significant under Criterion B, however it was noted that future research may reveal additional information which makes Criterion B possible. Properties within the capitol mall which are considered best examples of a particular style or represent a distinguishable characteristic with sufficient integrity and significance may be eligible under Criterion C. Properties with potential to contain important information related to human history may be eligible under Criterion D (Gallo, et al. 2022).

Historic Context Study: Capitol Mall Study Part 2

Part two of the Capitol Mall Study included three components: an architectural/history survey conducted by Hess Roise and Company (Hess Roise), a geophysical analysis conducted by Archaeo-Physics, and an archaeological survey conducted by NCC.

In 2024 Archaeo-Physics conducted geophysical studies within the Capitol Mall in order to inform the archaeological survey. Ground Penetrating Radar (GPR) and Electro-Magnet Induction (EMI) studies were conducted in 10 areas previously identified as having potential for intact cultural resources (Jones 2025). Half of the areas identified were buried underneath pavement, however five of the areas identified as potentially intact were modern lawns.

Following the geophysical surveys, NCC conducted an archaeological survey in three of the areas identified by Archaeo-Physics as having intact deposits that were not underneath pavement (Jones 2025). Between the three study areas, NCC placed seventeen shovel tests and eight 1-meter by 2-meter test units, revealing 14,551 artifacts dating from the 1880s to the present. Units were excavated in 5-centimeter levels to a maximum depth of 200 centimeters, revealing concentrations of artifacts in every level. Each of the three areas NCC tested were designated as archaeological sites [redacted] Nienow, et. al. 2025).

Archaeo-Physics tests within [redacted], was formerly the William Rush Merrian Mansion (Jones 2025). Archaeological excavations in [redacted] containing features associated with the former Minnesota State Representative and Governor William R. Merrian's home. NCC recorded [redacted] and recommended this site as eligible under Criterion B for its association with William R. Merrian, as well as Criterion A for its association with the pattern of Euro-American settlement in the late 19th century (Nienow, et. al. 2025).

The second area NCC tested, identified by the Archaeo-Physics survey as [redacted] (Jones 2025), [redacted] A review of early plat maps from the late 19th century, shows this area was historically platted as Bazille's Addition to the City of Saint Paul. NCC completed three shovel tests in the area, identifying a brick feature as the likely

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anomaly located during the geophysical studies. Three 1- meter by 2-meter meter tests units were placed within [redacted], revealing brickyard storage, outbuildings, and residential yards associated with late 19th century Saint Paul. NCC recorded the Brazille's Addition [redacted] and recommended this site as eligible for NRHP listing under Criterion A for its association with the pattern of Euro-American settlement in the late 19th century, as well as Criterion D for the potential to reveal additional intact archaeological deposits (Nienow, et. al. 2025).

NCC also tested a third area ([redacted]) identified during the geophysical studies [redacted] (Jones 2025). Four shovel tests and two 1-meter by 2-meter test units were completed within [redacted] revealing features associated with the backyards of residential buildings within Block 4 of the historic Butman's Addition. NCC recorded the Butman's Addition, Block 4 site [redacted] and recommended this site as eligible for NRHP listing under Criterion A for its association with the pattern of Euro-American settlement in the late 19th century, as well as under Criterion D, for its potential to learn more about the history and prehistory of the area (Nienow, et. al. 2025).

The architectural/history portion of the Capitol Mall study was conducted by Hess Roise in 2025. During their architectural-history survey, Hess Roise identified 25 above ground cultural resources within the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-1132). As part of this study, a larger boundary for the historic district was identified and the name was updated to include archaeological sites. Hess Roise recommended the newly defined Historic District as eligible for the National Register under Criterion C for its association with famed architect Cass Gilbert. The Minnesota State Capitol Mall Historic and Archaeological District was also deemed eligible for the National Register under Criterion A for its association with early Euro-American settlement and the city planning of early Saint Paul (Gales, et. al. 2025).

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[redacted]

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Figure 4 - Previously Recorded Cemeteries

[redacted]

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HISTORIC LAND USE WITHIN THE STUDY AREA

A review of historic maps and aerial imagery demonstrates the land use within the proposed project area has primarily been urban/civic since the early 20th century, with the continued development of surrounding landscaping, residences, businesses, and transportation infrastructure over the years. As noted in the archaeological data, surrounding urban sites remain intact underneath layers of fill (Nienow, et. al. 2025). Currently, the entire Study Area contains the existing Centennial Office Building and adjoining infrastructure, which includes portions of the underground pedestrian tunnel system. The maximum depth of the Centennial Office Building foundation is approximately 20 feet below ground surface.

Historic Map Review

Historic plat maps from 1886 and 1887 show the Study Area as residential development, with the old Capitol located ¾ mile south (see **Figure 5**) (Hopkins 1884; Hopkins 1886; Curtice 1887). Sanborn Fire Insurance maps were analyzed to demonstrate development of the Study Area over time. An 1885 Sanborn Fire Insurance map shows the Study Area within the Central Park Addition, bordering Brazille's Addition to the west and Central Park to the east. A closer look at the 1885 Sanborn map depicts the location of the Centennial Office Building as empty platted lots along Cedar, E. Summit, Minnesota, and Central Streets (see **Figure 5**) (Sanborn Fire Insurance 1885). A Sanborn map from 1888 shows little difference to the layout of the Study Area (Sanborn Fire Insurance 1888).

A 1903 Sanborn map shows the first development along this block. Five buildings were constructed here, all brick dwellings along the eastern side of the block fronting Central Park Place W. The northern-most building was a two and one-half story side-by-side duplex with a slate roof at 673-665 Central Park Place W. Architectural details outlined on the 1903 Sanborn map indicate it may have been a Victorian style building. The next building was a single, two and one-half story brick dwelling with a wood frame attic and wood frame front porch at 655 Central Park Place W. At 649-647 Central Park Place W. was the Genesee Flats, a four-story brick building with wood frame front and back porches. This building had an open fourth story and a skylight in the center. A single two and one-half story brick dwelling with a wood frame front porch was located at 643 Central Park Place W. The southern-most building was called the Virginia Flats located at 619-611 Central Park Place W. It was a U-shaped 5 story building with a stone foundation and a stone addition to the rear (see **Figure 6**) (Sanborn Fire Insurance 1903). These residences were occupied by working class families from a mix of European, Black, and Jewish ancestry (United States Census Bureau n.d.).

The 1908 plat shows the new Capitol in its current location and Central Park, to the northeast of the current Centennial Office Building has been further established with designed greenspace and walking paths (see **Figure 7**) (Dahl 1908). By 1916 an additional apartment building had been constructed between the Genesee and Virginia buildings, called the Minnehaha Apartments (see **Figure 8**) (Hopkins 1916).

Aerial Imagery Review

Historic aerial photographs provide a glimpse into the Study Area as it changed throughout the early 20th century. 1923 and 1945 captures shows the Capitol Mall and surrounding residences near the present-day Centennial Office Building. These captures clearly show all of the buildings within this block and the designed central park they face (see **Figure 9 & 10**). A 1966 capture shows the Capitol Mall in its current configuration, including the existence of the Centennial Office Building and expanded mall (Gales et al. 2025) (see **Figure 11**). An April 2020 satellite image capture shows the existence of a greenspace in the adjacent lot to the Centennial Office Building along Rev. Dr. Martin Luther King Jr. Blvd., however by October 2020, that greenspace was transitioned into a parking lot per a review of historic satellite imagery (see **Figure 12**).

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Centennial Office Building Demolition Project

Figure 5 - 1885 Sanborn Fire Insurance Map

Wold Architects

August 2025

BOLTON & MENK

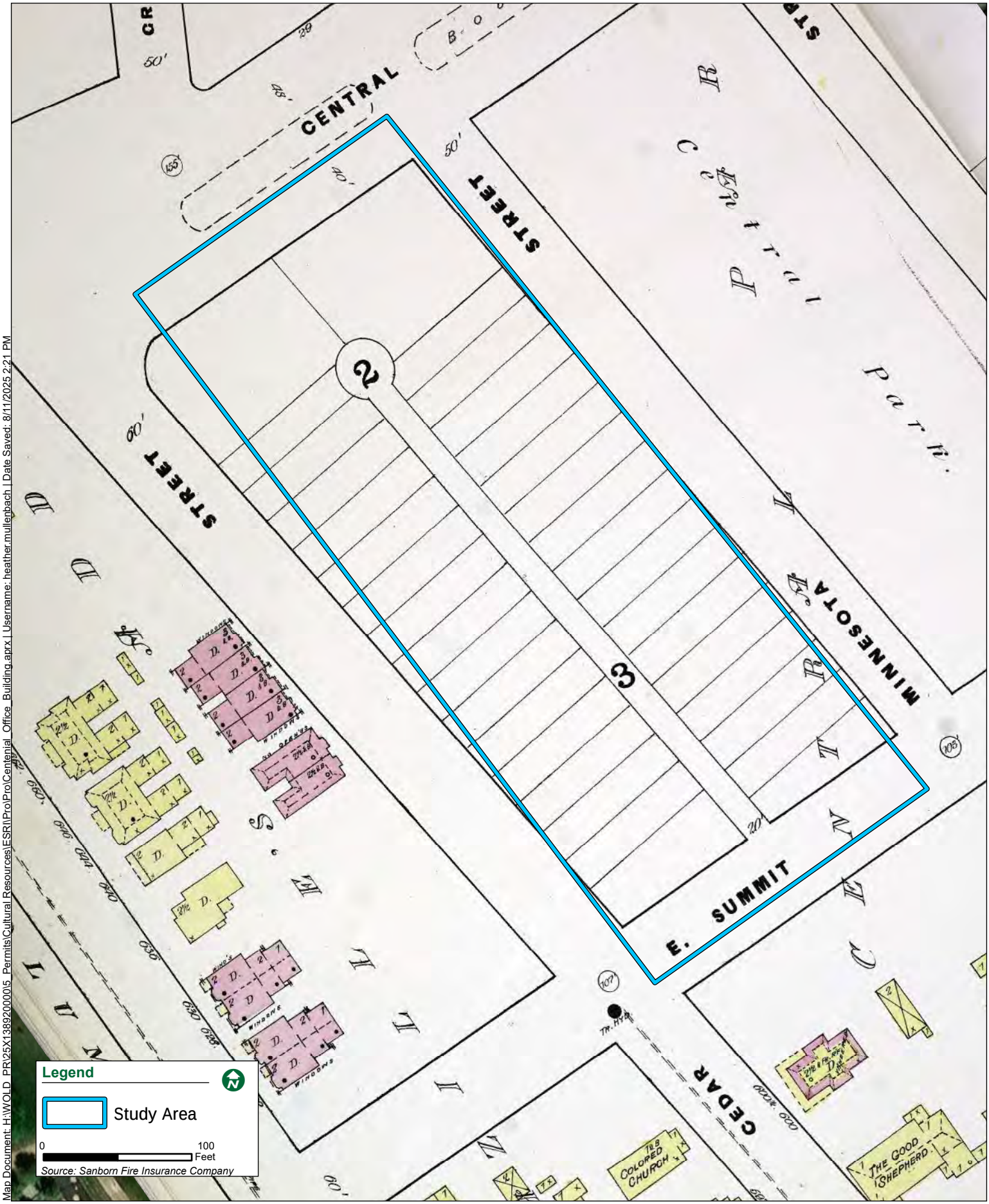

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Figure 6 - 1903 Sanborn Fire Insurance Map

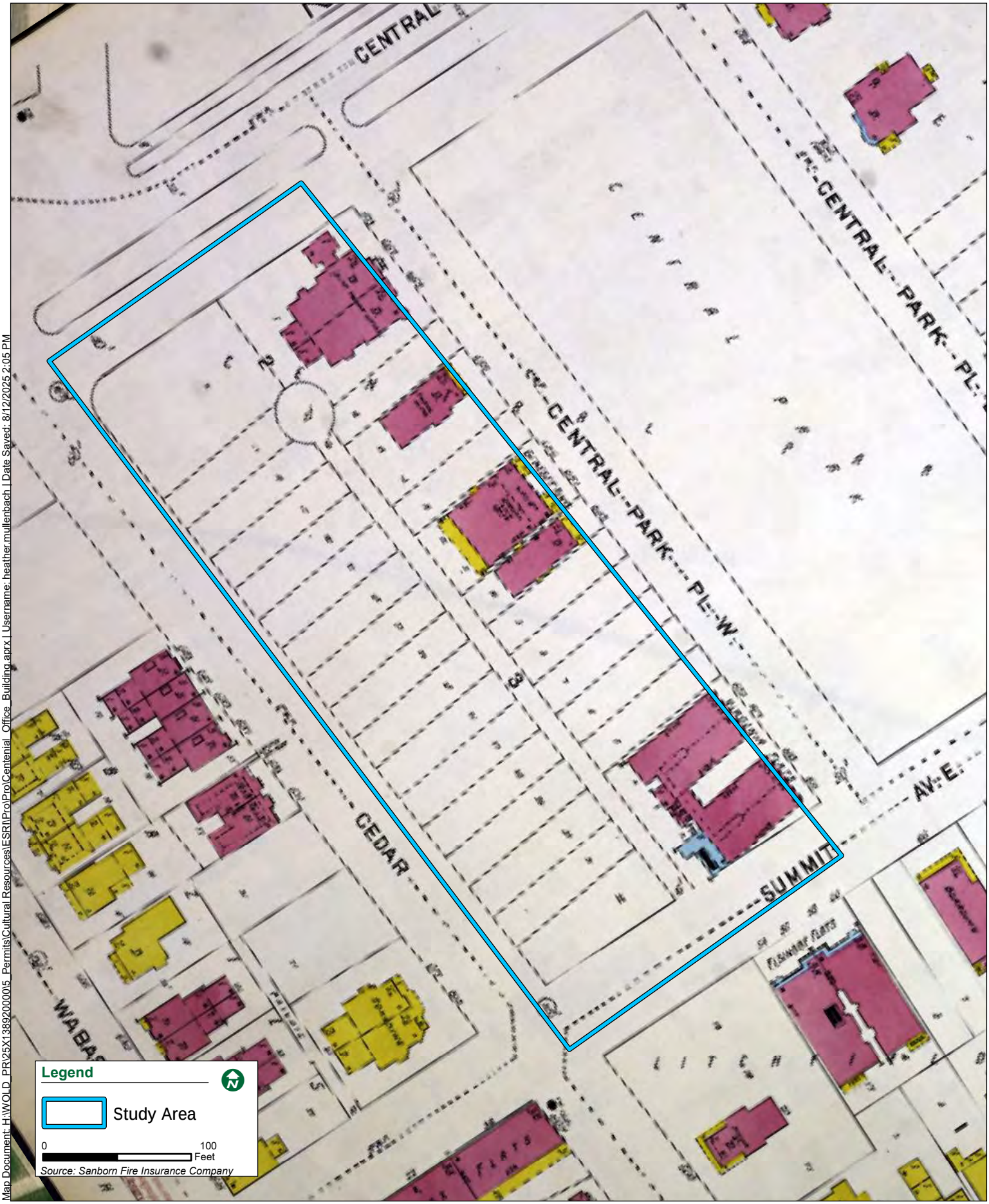

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Figure 7 - 1908 Plat Map

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Legend

Study Area

0 250 Feet

Source: H.M. Smyth

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Centennial Office Building Demolition Project

Wold Architects

Figure 9 - 1923 Aerial Imagery

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Centennial Office Building Demolition Project

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Figure 10 - 1945 Aerial Imagery

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Centennial Office Building Demolition Project

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Figure 11 - 1974 Aerial Imagery

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Centennial Office Building Demolition Project

Wold Architects

Figure 12 - 2020 Aerial Imagery

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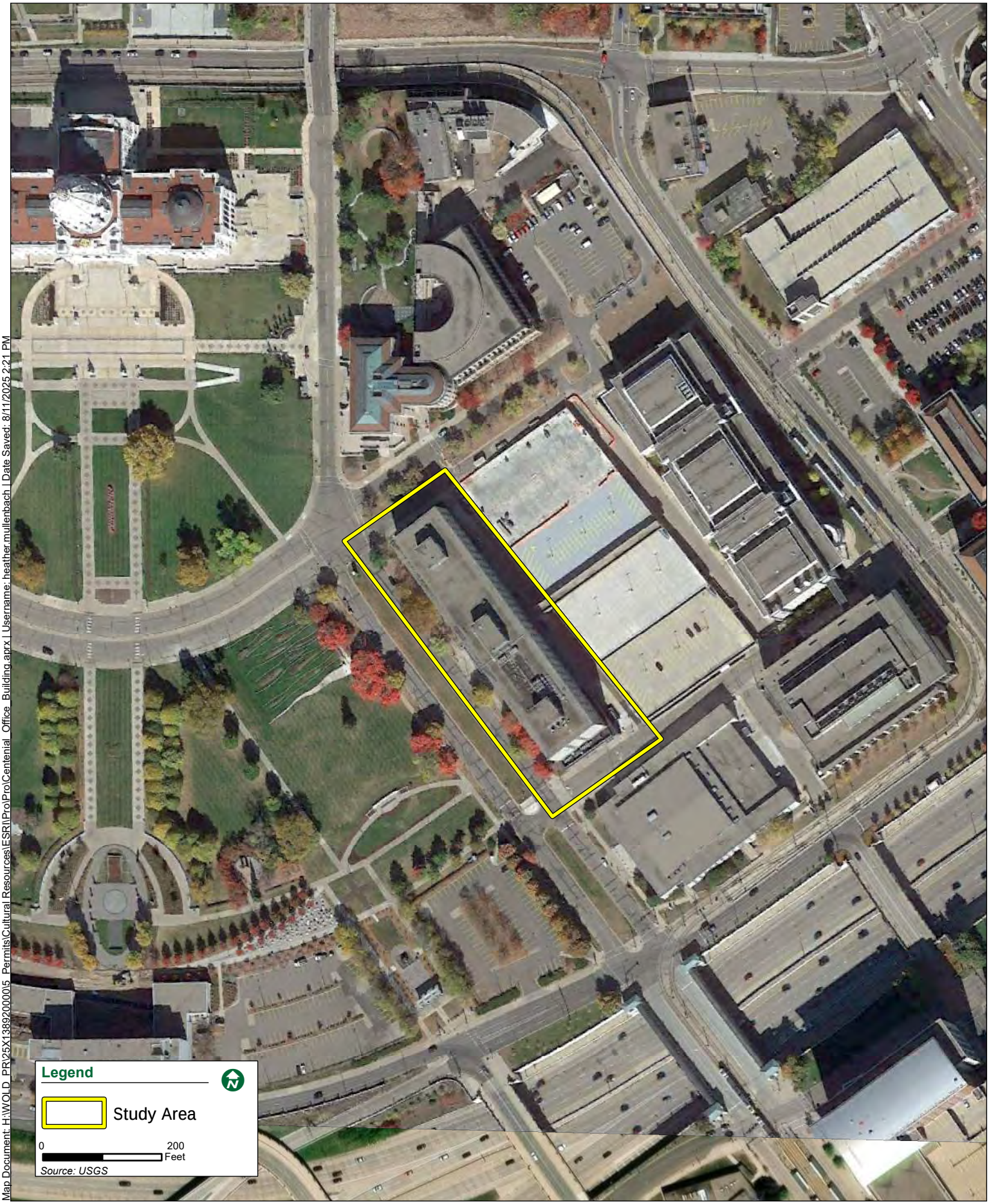

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STUDY AREA ASSESSMENT

The Centennial Office Building (RA-SPC-06313) located at 658 Cedar Street, is a government office building which is a contributing property to the Capitol Mall Historic and Archaeological District (RA-SPC-11132). The Centennial Office Building was constructed in 1958 by architectural firm Thorhsov and Cerny in the Modern architectural style, featuring a rectangular profile. This five-story building with one basement level is primarily steel and concrete with aluminum and glass windows and a granite and concrete foundation. A 1994 inventory form compiled by BRW, Inc. notes the use of opulent materials in a minimalist style (BRW 1994). The Centennial Office Building represents the post-WWII portion of the Capitol Mall Historic and Archaeological District (RA-SPC-11132), with a Modern style and box profile (Hennepin County Regional Railroad Authority et al. 1996). Further discussion of the building can be found in the report, *Architecture/History Study of the Centennial Office Building Demolition Project, Saint Paul, Ramsey County, Minnesota* (**Appendix A**). The below discussion will focus on archaeological potential of the project area.

Buildings in the location of the current Centennial Office Building were first constructed between 1903 and 1908 and continued to expand across the block through 1916. This block housed mainly apartment buildings and faced Central Park Place W. to the northeast, which opened on Central Park, where the current parking garage now stands. Census data from 1880 shows the residences included people that were 10-20% German, 2-10% Swedish, and 20-30% Irish. Early census data does not accurately count Black and Jewish citizens, but other demographic studies show that between 1860-1890, the Study Area was predominately Jewish, with a strong Black neighborhood nearby to the east (Gallo, et al. 2022). Census data from 1900, 1910, 1920, 1930, 1940, and 1950 shows a trend of less foreign born and a growing non-white population within the Study Area (United States Census Bureau, n.d.).

The post-WWII economic boom allowed for the city of Saint Paul to resume plans for realizing Gilbert's vision for the Capitol Mall. These plans included radial flanks southwest and southeast from the Capitol. In 1947 Saint Paul Mayor Edward Delaney secured Federal Housing Act funding to create the Saint Paul Housing Redevelopment Authority (HRA), which justified the removal of residences within the Capitol Area. The Virginia, Genesse, and Minnehaha Apartments were demolished in 1950 to make space for the Centennial Office Building (Gallo, et al. 2022). The current Centennial Office Building footprint encompasses the majority of the former Virginia, Genesse, and Minnehaha Apartments, based on original plan drawings and off-site map analysis. Its basement depth varies because of the sloped topography, but on average it is twenty feet below ground surface. Original plans for the Centennial Office Building show an existing sidewalk paralleling Cedar Street was left in place and new sidewalks were added along Central Avenue, Columbus Avenue, and along the rear of the building. These plans also depict where building utilities were planned and where soil borings were placed in preparation for construction. Soil borings from 1958 demonstrate fill layers across the site ranging from 10 feet to 28 feet deep typically followed by muck. Underground water levels were reached on average about 20 feet below the surface. Many soil borings noted historic debris within the upper fill layers. All soil borings from 1958 were completed within the current Centennial Office Building footprint. It is likely the Centennial Office Building construction in 1958 has removed most remnants of these former apartment buildings (**Figure 13**).

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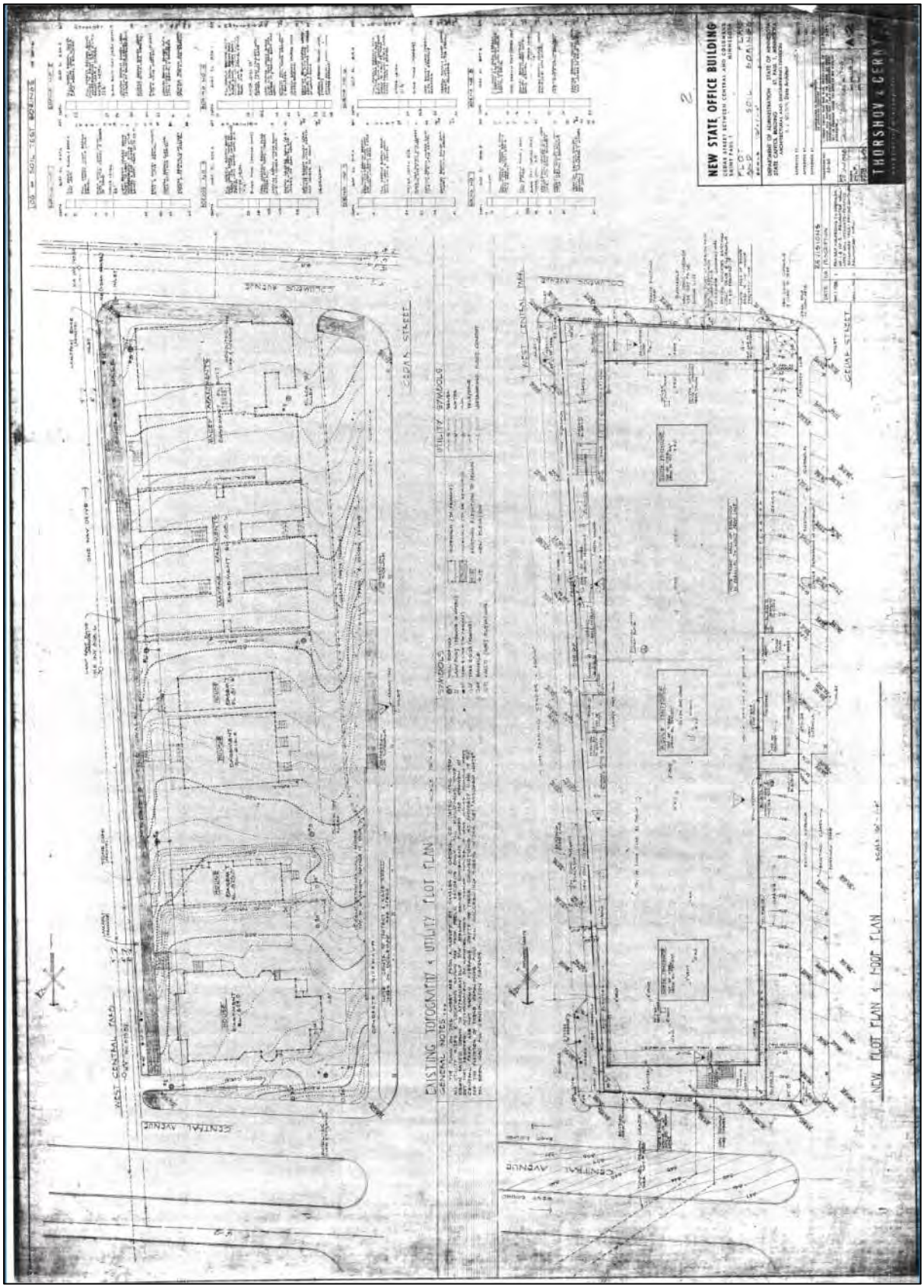
Figure 13: 1958 Plot Plan and Soil Borings



Centennial Office Building construction plans depicting the plot plan and soil boring results (Nelson 1958).

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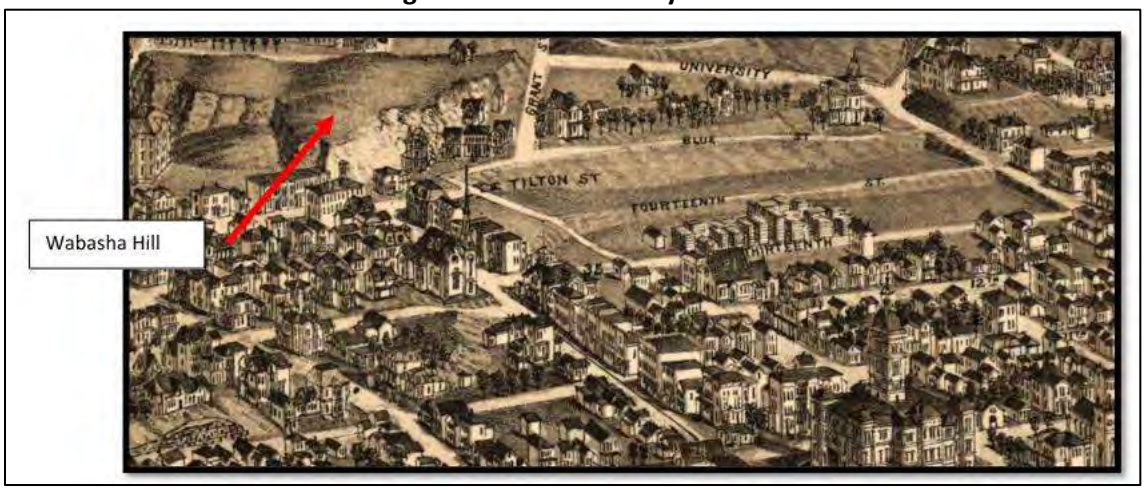
Geophysical samples and archaeological testing at nearby site [redacted] revealed cultural strata to an average depth of 200 centimeters (about 6.5 feet) below ground surface (Jones 2025; Nienow, et. al. 2025). Historical accounts describe the leveling of Wabasha Hill, a natural sandy hill, just to the north of the proposed project area prior to homes being built within the current Capitol Mall (**Figure 14**). This leveling was apparent in archaeological testing within the Capitol Mall with some original C Horizon soils not encountered until three meters deep in some areas and not at all in others. At [redacted]

> *There was consistent capitol mall soil horizon consisting of approximately 30 to 60cm of silt loam which covered a thin layer (5 to 10cm) of sterile clay. These fill soils were again clean fill intended to support the thick grasses of the capitol mall… typically these layers immediately overlay historic features… a wide range of temporally diagnostic artifacts which clearly align with the 1950 demolition (Nienow, et al. 2005: 127).*

Historic features at this site included limestone foundations, privy features and diagnostic trash deposits with intact temporal stratigraphy. While no precontact cultural resources were encountered at [redacted] or other archaeological sites identified within the Capitol Mall, there is still a possibility for original A horizon soils to exist under the historic cultural layers, if they were not removed for circa 1880s construction. These original A horizon soils were identified in [redacted] (Nienow, et. al. 2025).

Figure 14: 1883 Bird's Eye View



An 1883 Bird's Eye view with grading and cuts to Wabasha Hill visible (Nienow, et. al. 2025:65)

As of 2025, a Capitol Mall cultural resources study is underway to reevaluate the NRHP eligibility of the Capitol Mall Historic and Archaeological District (RA-SPC-11132). Through this reevaluation, it is being expanded to include additional historic archaeological sites and buildings that make up the Capitol Mall. The newly defined district is recommended eligible under Criterion A, C, and D. As a designed landscape, the plan for the Capitol Mall has included the Centennial Office Building and other elements to frame and highlight the Capitol building, as seen in a site plan from 1947 and in actuality by 1960 (**Figures 15 & 16**).

Proposed project plans for the Centennial Office Building demolition show existing conditions including a series of underground utilities, retaining walls, landscaping, and the underground tunnel system that has likely impacted any remaining potential for in-situ archaeology associated with the former residential block in this location (**Appendix B**).

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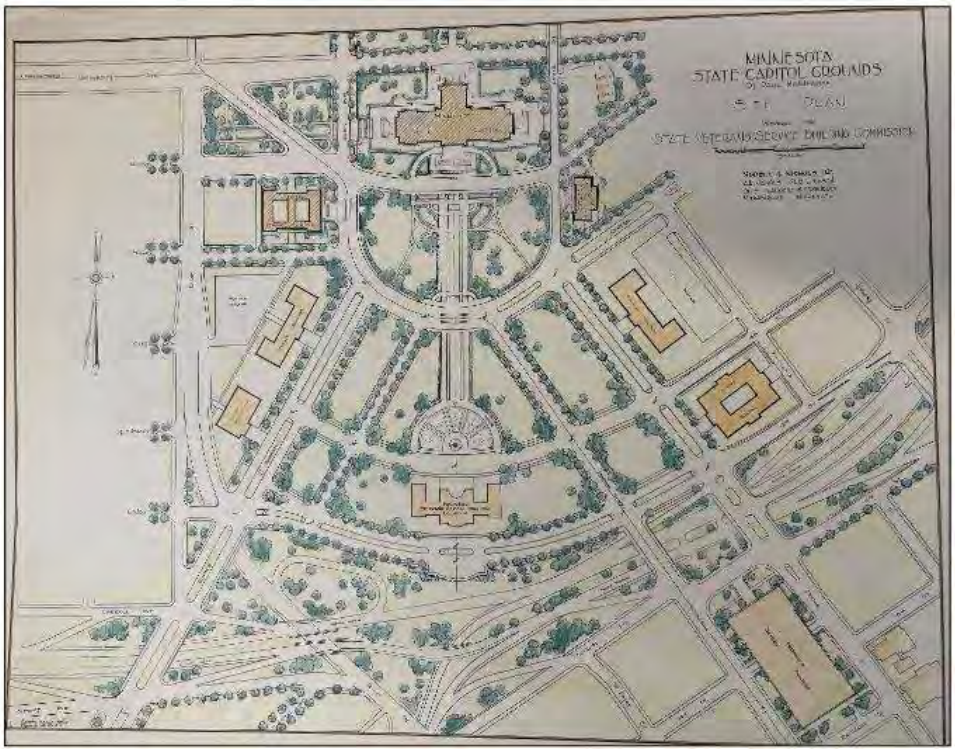
Figure 15: Capitol Mall Site Plan c. 1947



Morell and Nichols Papers, Site Plan for the Capitol Area circa 1947 (Gales et. al. 2025:17)

Figure 16: Capitol Mall c. 1960

Capitol Area circa 1960, Postcard from the Minnesota Historical Society (Gales et. al. 2025:19).

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SUMMARY & RECOMMENDATIONS

A Phase IA archaeological literature review was completed by the Bolton & Menk, Inc. cultural resources team in October 2025 for the proposed Centennial Office Building demolition in Saint Paul, Ramsey County, Minnesota. During the literature review, 22 previously recorded archaeological sites and one archaeological alpha site were identified within one mile of the proposed project area. Additionally, 45 previous cultural resources surveys have been conducted within approximately 1 mile of the project area.

A review of historic land use within the Study Area reveals that prior to the construction of the Centennial Office Building, the space was residential buildings and yards. Recent geophysical and archaeological studies conducted nearby revealed potential for intact historic and precontact strata buried underneath fill at [redacted]. Of these sites [redacted] were recommended eligible for NRHP inclusion under Criterion D and contributing to the Minnesota State Capitol Mall Historic and Archaeological District (Nienow et. al. 2025). The Centennial Office Building has an approximately 20-foot-deep basement and is unlikely to sit atop intact buried historic features. Original plan sets from 1958 and current condition plans from 2026 depict areas surrounding the building not previously disturbed to this depth, including municipal services proposed to be removed as part of the demolition, likely have impacted any remaining in-situ archaeology associated with the former residential block in this location. A geophysical study could confirm this past disturbance.

The proposed project includes the demolition of the Centennial Office Building (RA-SPC-06313) and replacing it with a temporary green space. As the building is contributing to the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132), its removal would be an adverse effect to the eligible historic district as it would remove a character-defining feature of the Capitol Mall, change the framing of the Capitol Building and the overall viewshed of the district, and potentially disrupt the planned landscape designed by Arthur Nichols; all important elements in conveying historical significance of the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132). As such, **Bolton & Menk recommends that demolition of the Centennial Office Building will have an adverse effect to the eligible Minnesota State Capitol Mall Historic and Archaeological District**. It is recommended that consultation with SHPO take place in order to determine appropriate treatments and to seek ways to avoid and mitigate any adverse effects. Agreement on a suitable course of action will be needed before the project proceeds.

MITIGATION GUIDANCE

The National Park Service and the Minnesota SHPO offers guidance on mitigation efforts. The first is *Avoidance* or not demolishing the Centennial Office Building and instead rehabilitating it for continued use. Second is *Minimization* and working to preserve the form and feeling of the building in place. Finally, *Mitigation* to save as much information as possible prior to the full destruction of the building.

If demolition cannot be avoided, then a plan for mitigation is recommended in consultation with SHPO prior to the start of demolition. Statute 138.665 Sub. 2 states,

> *The state, state departments, agencies, and political subdivisions… have a responsibility to protect the physical features and historic character of properties… Before carrying out any undertaking that will affect designated or listed properties, or funding or licensing an undertaking by other parties, the state department or agency shall consult with the State Historic Preservation Office pursuant to the State Historic Preservation Office's established procedures to determine appropriate treatments and to seek ways to avoid and mitigate any adverse effects.*

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This mitigation or treatment plan may include, but is not limited to, additional historical documentation of the building through the completion of a Level II Minnesota Historic Property Record (MHPR) according to the *Minnesota Historic Property Record Guidelines* (Updated June 2009); additional archaeological study and/or monitoring of ground disturbing activities during building demolition; interpretation of the site following demolition; and designing the new space to be historically relevant and complimentary to the Capitol Mall Historic and Archaeological District. Exact mitigation details are recommended to be established in consultation with SHPO prior to the start of demolition.

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Appendix A: *Architecture/History Study for the Centennial Office Building Demolition Project*

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August 28, 2026

This report does not contain sensitive information about cultural resources and can be shared publicly.

RE: Architecture/History Study of the Centennial Office Building Demolition Project, Saint Paul, Ramsey County, Minnesota.
Wold Engineers and Architects

This report has been prepared for the State of Minnesota and relevant agencies in their review to determine whether the planned demolition of the Centennial Office Building at 658 Cedar Street will affect important historic resources.

This report contains the results of an Architecture/History study conducted on behalf of Wold Engineers and Architects and the State of Minnesota for the Centennial Office Building demolition project. This is a preliminary review of existing information to determine if further investigation is needed. The findings of this report support further consultation with the State Historic Preservation Office (SHPO) in order to determine appropriate treatments and to seek agreement on how to avoid and mitigate any adverse effects.

The project includes the demolition of the Centennial Office Building located at 658 Cedar Street within the Minnesota State Capitol Mall. This project is located within Section 31 of Township 29 North, Range 22 West, Saint Paul, Ramsey County, Minnesota. The total project area is approximately 2.89 acres (**Figures 1 & 2**).

During initial consultation between the project proposer and SHPO, the project proposer indicated that this project would follow the environmental review process that is utilized for state buildings listed on the National Register of Historic Places (NRHP). This is based on the Centennial Office Building (RA-SPC-06313) being designated as contributing to the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132), which has been determined to be eligible for listing as listed on the NRHP. Given the Centennial Office Building is not listed on the NRHP, this would be considered a discretionary EAW. SHPO explained that a historic study of the Capitol Mall Historic District was currently underway and was projected for completion in 2026. To date, Part 1 of the Capitol Mall Historic District study was completed in 2024, and Part 2 was completed in August 2025 with a recommendation that the Minnesota State Capitol Mall Historic and Archaeological District is eligible for listing in the NRHP. The next stage of this study is to revise the NRHP nomination form based on these cumulative studies. The project proposer further agreed to consultation regarding the proposed demolition project as outlined under the Minnesota Historic Sites Act (MS 138.661-.669). This law requires,

> *The state, state departments, agencies, and political subdivisions, including the Board of Regents of the University of Minnesota, have a responsibility to protect the physical features and historic character of properties designated in sections 138.662 and 138.664 or listed on the National Register of Historic Places created by Public Law 89-665. Before carrying out any undertaking that will affect designated or listed properties, or funding or licensing an undertaking by other parties, the state department or agency shall consult with the State Historic Preservation Office pursuant to the State Historic Preservation Office's established procedures to determine*

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> *appropriate treatments and to seek ways to avoid and mitigate any adverse effects on designated or listed properties. If the state department or agency and the State Historic Preservation Office agree in writing on a suitable course of action, the project may proceed (MS 138.665 Subd. 2).*

This report follows the guidelines outlined in the *Historic and Architectural Survey Manual*[1] and The *Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation*[2]. Kelly Wolf, MA, RPA served as Principal Investigator for this project. Wolf meets the requirements of a professional archaeologist, historian, and architectural historian under the Secretary of the Interior Professional Qualifications Standards.

RECOMMENDED STUDY AREA

The scope of work calls for the complete dismantling of the multi-story Centennial Office Building, including its foundations, footings, and utility connections. Structurally, the existing building consists of a cast-in-place concrete substructure supported on piles and pile caps, with a superstructure of steel columns, beams, and girders topped by composite concrete floor decks. The exterior features granite veneer over brick masonry, complemented by aluminum storefronts and windows. The roof is finished with a membrane roofing system. Interior partitions are made up of masonry, gypsum board with metal studs, and wood panels. The building and all related infrastructure—such as the brick smokestack, above-ground fuel tank, concrete pump house, and retaining walls—will be removed. All elevators will also be decommissioned and removed. Sanitary sewer and drinking water services will be removed to the main; gas and electric services will be disconnected in coordination with local providers. The exact location of underground piping is unknown at this time.

To preserve the portions of the existing tunnel system outside of the footprint of the Centennial Office Building, the current design calls for two egress doors to be added—one on the northwest side and one on the southwest side of the project area. Each egress point will feature a rectangular hatch measuring 14 feet 4 inches by 5 feet 8 inches, surrounded by a concrete collar to facilitate maintenance access. These hatches will not be connected to sidewalks or other pedestrian infrastructure, as they are intended solely for emergency or maintenance use. Pedestrian tunnel access from the Veterans Service Building and Judicial Center will be blocked, and the curb, gutter, pavement, and vegetated areas will be restored where utilities have been removed.

Once demolition is complete, approximately 24,700 cubic yards of compacted fill will be used to fill the foundations and basement. The site will then be graded to facilitate stormwater drainage and blend with the surrounding area. The area will then be converted into open landscaped green space. The site will be graded and planted with grass and vegetation to provide a clean and functional outdoor area. The southeast portion of the site will be sloped to create an infiltration area with an 1,800 square foot bottom at the elevation of 804 feet to contain temporary standing water. The infiltration area is designed with layered landscaping to support both stormwater management and vegetation growth. The surface layer will have grass planted in 6 inches of topsoil, providing a green, stabilized cover. Around planted vegetation, shredded wood mulch (MnDOT Type 6) will be applied at a minimum depth of 3 inches to retain moisture and suppress weeds. Trees will be planted with a root ball or pot and

[1] Minnesota Historical Society (MNHS). 2017. Historic and Architectural Survey Manual. Heritage Preservation Department, revised 6/2017. Electronic document, https://mn.gov/admin/assets/surveymanual_tcm36-327675.pdf, accessed June 2025.
[2] National Park Service (NPS). 1995. The Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation. *Federal Register* 48 (190):44716-44740.

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supported by stakes for stability. Beneath the mulch will be a specially formulated infiltration soil mixture, engineered to promote water absorption and root development. The area will be bordered with typical landscape edging and enclosed with a sediment control log around the full perimeter, which will be removed once upslope areas are permanently stabilized. Prior to planting, the subgrade will be excavated using a toothed bucket backhoe, and soils will be ripped 6 to 9 inches deep to alleviate compaction. The bottom of the excavation will be flat and filled with soil that transitions between existing poorly graded (SP) sands and a sand subbase, ensuring proper drainage and structural support for the vegetation above.

The State of Minnesota intends to direct at least 75% of demolition waste toward reuse and recycling. This involves removing and dismantling usable components from the building before demolition, allowing for the reuse of materials and reducing waste directed to landfills. Approximately 12,350 cubic yards of crushed concrete debris will be reused on-site as compacted fill under Minnesota's standing beneficial use allowance. This sustainable approach replaces roughly half of the required new fill and diverts an estimated 12,000 tons of material from landfills. On-site crushing will not be permitted; instead, the concrete debris will be transported to a contractor-provided location for processing and then returned to the site for reuse. The remaining fill needed will meet MnDOT 3149.2H Select Granular Borrow specifications or a similar standard to minimize settlement and ensure the material is suitable for future construction.

KNOWN CULTURAL RESOURCES & PRIOR SURVEYS

Minnesota's Statewide Historic Inventory Portal (MnSHIP) was searched for historic resources recorded through October 2025, within 0.10 miles of the Survey Area. Data in state site files regarding previously completed cultural resources surveys within approximately 1 mile of the Study Area were reviewed on June 18, 2025, during in-person research at SHPO.

Architecture-History Resources Within 0.10 Miles of Study Area

There are five previously recorded architecture-history resources within the reduced 0.10 miles research radius of the Study Area (**Table 1; Figure 3**). All of these resources are discussed further below the table.

Table 1: Previously Inventoried Architecture-History Resources Within 0.10 Miles of Study Area

SHPO Inventory Number	Property Name	Location	Distance from Survey Area	NRHP Eligibility*
RA-SPC-06313	**Centennial Office Building / Minnesota Centennial Building**	**658 Cedar St.**	**Subject Property**	**Certified Eligible Finding/ Contributing to RA-SPC-11132**
RA-SPC-00557	Minnesota Judicial Center / Minnesota Historical Society	25 Rev. Dr. Martin Luther King Jr. Blvd. (formerly 25 Constitution Ave.)	0.04 miles/232-feet	Individually Listed/ Contributing to RA-SPC-11132
RA-SPC-00229	Minnesota State Capitol Building	75 Rev. Dr. Martin Luther King Jr. Blvd. (formerly Aurora Ave. between Cedar & Park Sts.)	0.10 miles (529-feet)	Individually Listed/ Contributing to RA-SPC-11132
RA-SPC-05619	Minnesota State Capitol Grounds	13 Rev Dr Martin Luther King Jr Blvd	Within Study Area	Contributing to RA-SPC-11132

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Table 1: Previously Inventoried Architecture-History Resources Within 0.10 Miles of Study Area				
SHPO Inventory Number	Property Name	Location	Distance from Survey Area	NRHP Eligibility*
RA-SPC-11132	Minnesota State Capitol Mall Historic and Archaeological District	Bounded by University Ave. to the N, Robert St. to the E, 12th St. to the S, Rice St. to the W	Within Study Area	Eligible

**NRHP status provided by SHPO from their records on August 1, 2025.

Centennial Office Building/Minnesota Centennial Building (RA-SPC-06313)

The Centennial Office Building (RA-SPC-06313) located at 658 Cedar Street, is a government office building which is a contributing property to the Capitol Mall Historic and Archaeological District (RA-SPC-11132), which has been determined to be eligible for listing in the NRHP. The Centennial Office Building was constructed in 1958 by architectural firm Thorhsov and Cerny in the Modern architectural style, featuring a rectangular profile. This five-story building with one basement level is primarily steel and concrete with aluminum and glass windows and a granite and concrete foundation. A 1994 inventory form compiled by BRW, Inc. notes the use of opulent materials in a minimalist style[3]. The Centennial Office Building represents the post-WWII portion of the Capitol Mall Historic and Archaeological District (RA-SPC-11132), with a Modern style and box profile[4]. The Centennial Office Building will be discussed in further detail in the **Study Area Assessment** section.

Capitol Mall Historic District (RA-SPC-11132)

The eligible Capitol Mall Historic and Archaeological District (RA-SPC-11132) contains seven contributing historic properties and eight sculptures. Two of the contributing properties are individually listed on the NRHP: the Minnesota State Capitol Building (RA-SPC-0229) and the Minnesota Judicial Center/ Minnesota Historical Society (RA-SPC-0557). The architectural history of this district dates to 1872, when the Saint Paul Common Council hired Horace Cleveland to prepare a general plan for the city, including a capitol district, to anticipate growth. Cass Gilbert was the architect hired to build the state capitol building. Groundbreaking began in May 1896 and by 1902, the project was almost complete. The Minnesota State Capitol Building was constructed in a Beaux-Arts style. Gilbert remained committed to making improvements to adjacent lots within the capitol district. Improvements to adjacent properties continued up to 1920, when Gilbert had to abandon his work in Saint Paul to focus on projects in New York.

Over the following years, areas around the state capitol fell into disarray. A 1936 *Fortune Magazine* article described slums surrounding the capitol as "among the worst in the land"[5]. Works Progress Administration funding was secured for low-income housing to be erected within the vicinity of the state capitol, however this project fell through as the beginning of the nation's involvement in WWII shifted attention to war efforts. By 1944 the federal government pushed for the construction of a freeway system through downtown Saint Paul, including nearby the state capitol, which affected the master plan for the capitol district. The Planning Board hired architect C.H. Johnston Jr. and landscape architect

[3] BRW. 1994. *Minnesota Centennial Building (XX-95-3H), Phase I Architectural History Survey.* State Historic Preservation Office, accessed June 11, 2025.
[4] Hennepin County Regional Railroad Authority, Ramsey County Regional Railroad Authority, and Minnesota Department of Transportation. 1996. *Phase I and II Cultural Resources Investigations of the Central Corridor Minneapolis, Hennepin County and St. Paul, Ramsey County, Minnesota.* State Historic Preservation Office, accessed June 11, 2025.
[5] Hennepin County Regional Railroad Authority, et. al. 1996.

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Arthur Nichols to prepare a new master plan to incorporate the freeway, which ended up being a truncated version of Cass Gilbert's original plan. The construction of Interstate highways 35 and 94 within the vicinity of the capitol district, resulted in the displacement of numerous African-American households and businesses within the highway corridors.

Governor Edward Thye appointed a War Memorial Advisory Committee in 1944, which proposed a "living war memorial" as a structure rather than a traditional memorial obelisk. This was approved and included funding to improve the surrounding 53 acres of land. Around the same time, the city issued twenty million dollars in bonds to acquire and improve land around the state capitol. In 1946 the commission for the Veterans Service Building was awarded to architect W. Brooks Calvin, Jr. from the District of Columbia. This modern style Veterans Building set the standard for surrounding capitol buildings to be constructed in a Modern architectural style with flat tops and rectangular profiles. Between 1958 and 1965 contributing properties to the Capitol Mall Historic and Archaeological District were first identified and complimented by newly erected surrounding businesses[6].

The Capitol Mall Historic and Archaeological District (RA-SPC-11132) is eligible for the NRHP under Criterion A for its association with community planning and development within the context of urban renewal in Saint Paul. In 2008, the district was reevaluated prior to the Central Corridor Light Rail project, wherein the district was expanded. The 2008 study recommended additional NRHP eligibility under Criterion C for the realization of Cass Gilbert's original construction plans[7]. A 2025 Capitol Mall study by Hess Roise further expanded the boundary of the Historic District and renamed it as the Minnesota State Capitol Mall Historic and Archaeological District. The boundaries were expanded to encompass University Avenue West to the north, Rice Street to the west, Robert Street to the east, and East Twelfth Street to the south[8]. This study also included archaeological investigations, which identified archaeological sites within the newly defined District with additional eligibility under Criterion D[9]. Today the Capitol Mall Historic and Archaeological District (RA-SPC-11132) is considered eligible under Criterion A, C, and D.

The proposed project area is located within the originally defined Capitol Mall Historic District, as well as the 2025 expanded Capitol Mall Historic and Archaeological District. The Centennial Office Building (RA-SPC-06313) is a contributing resource to this Historic District.

<u>Minnesota State Capitol Grounds (RA-SPC-05619)</u>

The Minnesota State Capitol Grounds (RA-SPC-05619) is a historic property located within the Capitol Mall Historic District (RA-SPC-11132). It extends from University Avenue to the north, to 12th Street on the south, encompassing the Capitol Mall greenspaces and properties facing Cedar Avenue on the east and Martin Luther King Jr. Boulevard and John Ireland Boulevard on the west. This property includes the landscape of the Capitol Mall and nine sculptures/memorials. The Minnesota State Capitol Grounds is a contributing property to the Capitol Mall Historic District (RA-SPC-11132) and is individually eligible for inclusion in the NRHP under Criterion C for its architectural significance[10]. This historic property encompasses the Centennial Office Building (RA-SPC-06313).

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[6] Hennepin County Regional Railroad Authority, et. al. 1996.
[7] Summit Envirosolutions. 2016. *Minnesota State Capitol Grounds (RA-SPC-5619).* Minnesota Architecture History Inventory Form. State Historic Preservation Office, accessed June 11, 2025.
[8] Gales, Elizabeth, Rachel Peterson, Sebastian Renfield, and Kathryn Goetz. 2025. *Minnesota State Capitol Mall Historic and Archaeological District Architecture History Survey Report.* Hess Roise Historical Consultants. Minneapolis, Minnesota.
[9] Nienow, Jeremy, Christopher Ricco, and Alexandra Hedquist. 2025. *Archaeological Identification and Evaluation Efforts, Minnesota State Capitol Mall Historic and Archaeological District, St. Paul, Ramsey County, Minnesota.* Nienow Cultural Consultants, LLC. St. Paul, Minnesota.
[10] Summit Envirosolutions 2016.

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Minnesota Judicial Center/ Minnesota Historical Society (RA-SPC-0557)

The Minnesota Historical Society Building (RA-SPC-0557), which currently houses the Minnesota Judicial Center located at 690 Cedar Street was constructed between 1915-1918 by architect Clarence H. Johnston, Sr. in the Roman Renaissance style of grey-granite marble with a hipped metal and tile roof. The building features an Ionic colonnade over a two-story recessed loggia. This building was constructed to originally house the Minnesota Historical Society, which was operational at this location between 1918 and 1992, when the society moved to the newly minted Minnesota History Center. This building is currently occupied by the Minnesota Judicial Center, which houses the Supreme Court, Court of Appeals, and the state law library. The historic Minnesota Historical Society (RA-SPC-0557) is a contributing property to the NRHP listed Capitol Mall Historic and Archaeological District (RA-SPC-11132) and is individually listed under Criterion A for its association with the early history of Minnesota settlement as well as Criterion C for its significance in architectural design[11] [12].

Minnesota State Capitol Building (RA-SPC-0229)

The Minnesota State Capitol Building located at 15 West Kellogg Boulevard was designed by Cass Gilbert and constructed between 1896 and 1904. The building is situated atop a hill overlooking the Mississippi River and the Capitol Mall, which was also designed by Gilbert. This historic building constructed in Beaux Arts and Classical Revival architectural styles features a rectangular profile with a northern central wing and a central marble dome with a golden ball on top. The building is primarily constructed of grey-white Georgia marble supported by a steel frame, with grey-granite foundation, terraces, exterior balustrades and steps. Numerous embellishments including statues and entablatures complement the Corinthian design of the capitol. The second floor of the Minnesota State Capitol Building, known as the "grand floor", contains the chambers of the Minnesota House of Representatives, the state Senate, and Supreme Court. This historic capitol building is a contributing property to the Capitol Mall Historic and Archaeological District (RA-SPC-11132) and is individually listed in the NRHP under Criterion B for its association with numerous important peoples to Minnesota's history, including famed architect Cass Gilbert. The Minnesota State Capitol Building is also listed on the NRHP under Criterion C for its significance in design and construction as arguably one of the most important and architecturally significant buildings in the state of Minnesota[13] [14].

Previous Cultural Resource Investigations Near/Informative to the Study Area

A review of reports on file at SHPO identified four previous architecture/history surveys within 1 mile of the Study Area (**Table 2**). Previous survey reports were reviewed to develop a better understanding of the historic and cultural contexts relevant to the Study Area. Two of the most recent previous surveys that include the current Study Area (Part 1 and Part 2 of the 2025 Capitol Mall Study) are highlighted below. Previously completed archaeological surveys are described in the report, *Phase IA Archaeology Literature Review for the Centennial Office Building Demolition Project, Saint Paul, Ramsey County, Minnesota*.

[11] Hennepin County Regional Railroad Authority, et. al. 1996.
[12] Coddington, Donn. 1972. *Minnesota Historical Society Building (RA-SPC-0557).* Inventory – Nomination Form. NRHP. National Register of Historic Places, accessed June 11, 2025.
[13] Hennepin County Regional Railroad Authority, et. al. 1996.
[14] Coddington 1972

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Table 2: Previously Completed Reports/Cultural Resources Surveys				
Publication Year	Report Title	Author(s)	Distance from Survey Area	Report Number*
1981	Historic Sites Survey St. Paul and Ramsey County	Murphy, Patricia A.	0.12 miles	RA-81-2H
1996	Central Corridor Hennepin and Ramsey Counties	Hennepin County Regional Railroad Authority, Ramsey County Regional Railroad Authority, Minnesota Department of Transportation	Within	XX-96-4H
2022	Historic Context Report for the Minnesota State Capitol Area Planning & Context Development Project	106 Group	Within	---
2025	Minnesota State Capitol Mall Historic and Archaeological District Architecture History Survey Report	Hess Roise	Within	---

*Report numbers based on state database (i.e. MN SHPO, OSA, etc.) filing system.

Historic Context Study: Capitol Mall Study Part 1

106 Group conducted a historic context study in 2022 for the State Capitol Area Planning and Context Redevelopment Project. This study identified three important subthemes within the capitol mall: the history of American Indian peoples within the area, late 18th century/early 19th century government intervention represented by the City Beautiful movement, and a history of what was lost in the late 19th/20th centuries. This study highlights the history of the capitol mall, including a brief overview of the land prior to development of the relocated state capitol.

Prior to the statehood of Minnesota and Euro-American settlement in the Saint Paul area, the land was historically Dakota and Ojibwe territory. As Saint Paul established itself as the capital of Minnesota, residential dwellings became concentrated in areas of industry and commerce. Most of the land use prior to the development of the Capitol Mall included residential dwellings and yards, brickyards, and storage/outbuildings. During the 19th century, the city made an effort to establish civic undertakings in order to inspire its citizens as part of the City Beautiful architectural movement. As the Capitol Mall transitioned from a residential to a civic hub, the city lost a number of residential neighborhoods tied to early Saint Paul, which were dispersed in newly established neighborhoods and suburbs[15].

Properties within the Capitol Mall were evaluated for NRHP inclusion as part of this Capitol Mall study, where it was determined those associated with the Minnesota state capitol may be eligible under Criteria A, C, or D. Properties within the context of development and state history may be eligible under Criterion A if they have sufficient integrity and significance. Properties within the Capitol Mall which were developed prior to the Mall were not determined to be significant under Criterion B, however it was noted that future research may reveal additional information which makes Criterion B possible. Properties within the Capitol Mall which are considered best examples of a particular style or represent a distinguishable characteristic with sufficient integrity and significance may be eligible under Criterion

[15] Gallo, Steve, Tyler Lund-Kyrola, Madeleine Bray, Saleh Miller, and Nieeta Presley. 2022. *Historic Context Report for the Minnesota State Capitol Area Planning & Context Development Project.* 106 Group, Ltd. Submitted to Minnesota Historical Society. Electronic document, https://mn.gov/admin/assets/MN%20Capitol%20Historic%20Context%20Report_Final_tcm36-570921.pdf, accessed July 3, 2025.

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C. Properties with potential to contain important information related to human history may be eligible under Criterion D[16].

Historic Context Study: Capitol Mall Study Part 2

Part two of the Capitol Mall Study included three components: an architectural/history survey conducted by Hess Roise and Company (Hess Roise), a geophysical analysis conducted by Archaeo-Physics, LLC., and an archaeological survey conducted by Nienow Cultural Consultants (NCC).

The architectural/history portion of the 2025 Capitol Mall study was conducted by Hess Roise in 2025. During their architectural/history survey, Hess Roise identified 25 above ground historic resources within the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-1132). A larger boundary for the historic district was identified, and the name has changed to reflect a cultural landscape that includes archaeological sites. Hess Roise recommended the newly defined Historic District as eligible for the National Register under Criterion C for its association with Morell and Nichols as master landscape architects, with input from Clarence Johnston and Associates. Contributing buildings were designed by significant architects including Cass Gilbert, Clarence H. Johnston Sr., W. Brooks Cavin Jr., Ellerbe Architects, Thorshov and Cerny, and Bettenberg, Townsend, Stolte, and Comb. The Minnesota State Capitol Mall Historic and Archaeological District was also deemed eligible for the National Register under Criterion A for a significant, decades-long community planning effort by the City of Saint Paul[17]. It is also eligible under Criterion D for archaeology. The archaeological studies completed during Part 2 are outlined in the report, *Phase IA Archaeology Literature Review for the Centennial Office Building Demolition Project, Saint Paul, Ramsey County, Minnesota*.

HISTORIC RAMSEY COUNTY AND CITY OF SAINT PAUL

Precontact and Early Ramsey County

Ramsey County was one of the initial nine counties to be established in the Minnesota Territory in 1849, nine years before Minnesota would officially become a state. The county was named in honor of Alexander Ramsey, the first governor of the territory and second mayor of Saint Paul[18]. At its founding, Ramsey County was once much larger, but portions of the county were divided up into Anoka, Isanti, Mille Lacs, and Aitkin Counties in 1857[19]. Today, Ramsey County is the smallest county in Minnesota by area, it is also one of the most urbanized with a long history of occupation. The county seat of Ramsey County is also the state capital, Saint Paul.

Before the establishment of Ramsey County, the first inhabitants of the area were Dakota and other native peoples. In fact, Saint Paul is also the location of some of the most culturally significant sites for Dakota and many other Tribal Nations. The nearby confluence of the Minnesota and Mississippi Rivers is known as Bdóte and is considered the center of the earth and origin point for Dakota peoples[20]. Ramsey County is also the location of a number of other important precontact burial mound sites, such as Wicaȟapi (formerly called Indian Mounds Regional Park), and both precontact and contact period

[16] Gallo, et. al. 2022
[17] Gales, et. al. 2025
[18] Upham, Warren. 1920. Ramsey County. *In Minnesota Geographic Names: Their Origin and Historic Significance.* Collections of the Minnesota Historical Society Vol. XVII. Minnesota Historical Society, St. Paul.
[19] Upham 1920
[20] Minnesota Historical Society (MNHS). 2021. Bdote. Historic Fort Snelling. Electronic document, https://www.mnhs.org/fortsnelling/learn/bdote, accessed June, 2025.

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settlements, such as Taku Waḳaŋ Ṭîpi and Kaposia, that demonstrate the long and rich history of the region prior to the arrival of Euro-Americans.

While the United States' political presence in the territory that would become Minnesota began in 1803, it more appropriately began with the first permanent U.S. military presence: the founding of Fort Snelling in 1819[21]. Zebulon Pike claimed to have secured 100,000 acres from the Dakota in 1805 for the erection of a U.S. fort, and the confluence of the Minnesota and Mississippi Rivers was selected for this purpose. The function of the Fort initially was to secure the control of U.S. interests in the fur trade and to quell hostilities between indigenous groups and the encroaching settlers moving westward[22]. Major land cessations began in 1837 between the U.S. government and the two major indigenous groups in the area: the Dakota and the Ojibwe[23]. By 1851, the Dakota had ceded all of their land in Minnesota in the Treaty of Traverse des Sioux[24]. Although land and annuities were promised to the Dakota, these promises were never fulfilled, leading a portion of the starving, mistreated, and frustrated Dakota to retaliate, resulting in the U.S.-Dakota War of 1862. Following the war, only a small number of Dakota remained in Minnesota. For all intents and purposes, by 1863, due to the government abrogating all Dakota treaties, it was illegal to be Dakota in the state of Minnesota[25].

Early Saint Paul

Euro-American settlement of Ramsey County followed the establishment of Fort Snelling in 1820 at the meeting of the Minnesota and Mississippi Rivers. Saint Paul was the first major settlement outside of the fort, developing approximately 3 miles to the south. This location was initially established in 1838 by Pierre Parrant, a fur trapper who became an infamous liquor distiller after he built a cabin near the site of Fountain Cave where he made and sold alcohol to the local tribes and soldiers from the nearby fort[26]. While Parrant was evicted from the property by Fort Snelling authorities in 1840, the fledgling settlement was referred to by Parrant's nickname of Pig's Eye, until it was renamed Saint Paul, after the settlement's first Catholic church constructed in 1841[27].

Saint Paul's location on the Mississippi River made it an early commercial hub for river travel. As a result, the early town had two major commercial districts related to the upper (Irvine Park) and lower (Lowertown) steamboat landings[28]. Over time, development increased on the blufftop between these landings as more businesses and workers settled there (Third Street/Kellogg Boulevard). Saint Paul was organized as a town in 1849, but by 1854, it had already grown enough that it was incorporated as a city and became the capital of the newly founded state of Minnesota[29] [30].

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[21] Dobbs, Clark. 1988. *Outline of Historic Contexts for the Prehistoric Period.* Reports of Investigation No. 37. Institute for Minnesota Archaeology, Minneapolis.
[22] Cassady, Matthew, and Peter J. DeCarlo. 2018. Fort Snelling in the Expansionist Era, 1819-1858. *MNOpedia*. Electronic document, http://www.mnopedia.org/place/fort-snelling-expansionist-era-1819-1858, accessed January 2019.
[23] Anfinson, Scott. 1994. Historic Context: Indian Communities and Reservations 1837-1945. Manuscript on file, Minnesota Historical Society, St. Paul.
[24] Lass, William E. 1998. *Minnesota: A History.* W. W. Norton, New York.
[25] Anfinson 1994
[26] National Park Service (NPS). 2020. *Fountain Cave.* Mississippi National River & Recreation Area, Minnesota. Electronic document, https://www.nps.gov/miss/planyourvisit/founcave.htm, accessed June, 2025.
[27] Upham 1920
[28] Schmidt, Andrew J. 2018. *Architecture-History Studies for the US 952A (Robert Street) Improvements Project, St. Paul, Ramsey County, Minnesota.* Streamline Associates, LLC. Submitted to the Minnesota Department of Transportation. Manuscript on file at the Minnesota State Historic Preservation Office, St. Paul.
[29] Schmidt 2018
[30] Upham 1920

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During the 1860s and 1870s, railroads brought additional growth to Saint Paul and by the 1890s, railroad transportation had overtaken steamboat travel, transforming the city into a "railroad town"[31]. During this time, Saint Paul experienced a population boom, increasing three-fold from 41,000 in 1880 to 133,581 in 1890[32].

Capitol Mall Historic Context

Minnesota territory was established in 1849, with Saint Paul as its capital city. During the 1850s, the population of Saint Paul increased dramatically. By 1858, the railroads were constructed through the city, with residential districts established as a mix of Euro-American and Black families with various socio-economic backgrounds. In 1881 the original state capitol building, located ¾ miles south of the present-day location, burned down and was proposed for reconstruction[33].

The Board of State Capitol Commissioners negotiated parameters for the capitol redesign process in 1893, designating a section between Cedar Street to the east, Park Ave to the west, University Ave to the north, and Central Ave/Wabasha to the south as the new capitol grounds. In 1895 an invitation only designer's competition was held, where local architect Cass Gilbert was awarded the contract for the Capitol Mall design. Gilbert was involved in the City Beautiful movement; an architectural movement aimed at beautifying a city in order to inspire better civic and social engagement. The City Beautiful movement drew from European plans for boulevards, plazas, and monuments in Neoclassical and Beaux Arts styles to replace haphazardly built structures seen as unsightly. Though it was not originally part of the Capitol Commissioners' budget, Gilbert negotiated for including landscaping as part of the capitol redesign project, which eventually resulted in the Capitol Mall we have today. Groundbreaking for the state capitol building began in 1896 and was completed in 1904. Originally located within the capitol building, the Minnesota Historical Society was awarded its own structure built between 1916-1918 on a lot previously owned by William L. Ames. Between 1918 and 1932, few undertakings were completed within the capitol area. In 1932, the State Office Building was proposed to be located west of Park Ave and south of Aurora. Land clearance for the State Office Building included the demolition of eight residential buildings within the area. The displacement of residences within the Capitol Mall area continued through the 20th century[34].

During the Great Depression and beginning of World War II, national interest was focused on economic recovery and national security, which shifted attention away from the realization of Gilbert's plan for the Capitol Mall. In 1944, plans for capitol area development continued with the Saint Paul Planning Board announcing plans for a war memorial. Clarence H. Johnston Architectural Associates and landscape architectural firm Morell and Nichols, Inc. were hired to develop a new master plan for the Capitol Mall, which included a war memorial, known as "Nichols Plan." The Nichols Plan included numerous sculptures and monuments throughout the Capitol Mall. In 1945 Governor Thye appointed the Veterans Service Building Commission to oversee the memorial building, which resulted in the state legislature appropriating funds to acquire 103 acres of land running south from the capitol to the present day I-94 boundary. Land acquisition for the Capitol Mall contributed to an increasing housing shortage within the capitol area, with remaining residences seen as unsightly. The 1949 Federal Housing

[31] Schmidt 2018:10
[32] Murphy, Patricia A. 1981. *Introduction: Historic Sites Survey- Saint Paul and Ramsey County.* Submitted to the Minnesota Historical Society. Manuscript on file at the Minnesota State Historic Preservation Office, St. Paul.
[33] Gallo, et. al. 2022
[34] Gallo, et. al. 2022

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Act resulted in the United States Department of Housing and Urban Development, which created funding and legal backing for housing development, providing relief to displaced Saint Paul families[35].

The Capitol Mall underwent another period of development after World War II representative of the Urban Renewal architectural movement. Like the City Beautiful movement, Urban Renewal was aimed at attempting to solve socio-economic problems in American cities through large scale reconstruction. This coincided with the approval of the proposed I-94 route by the Minnesota Highway Department in 1947 and the signing of the Federal-Aid Highway Act of 1956 by President Eisenhower. In 1966 land clearance began for the I-94 project and two years later the freeway was open to the public. The result of the construction of I-94 and I-35 south of the Capitol Mall, as well as the realization of the Nichols Plan for the Veterans Memorial, shaped the present layout of the Capitol Mall to resemble a truncated version of Gilbert's original plan. The Nichols Plan included a redesign of Central Ave to be the curvilinear form seen today. Two radial approaches flanking the Capitol Mall were conceived in the late 1950s, including the Transportation Building to the west constructed 1957-1958 and the Centennial Office Building to the east constructed 1958-1960. In 1962, Sears, Roebuck, and Co. constructed a commercial tract to the west of the Capitol Mall, which was joined by Holiday Inn two years later[36].

STUDY AREA ASSESSMENT

Buildings in the location of the current Centennial Office Building were first constructed between 1903 and 1908 and continued to expand across the block through 1916. This block housed mainly apartment buildings and faced Central Park Place W. to the northeast, which opened on Central Park, where the current parking garage now stands (**Figure 4**).

The post-WWII economic boom allowed for the city of Saint Paul to resume plans for realizing Gilbert's vision for the Capitol Mall. These plans included radial flanks southwest and southeast from the Capitol. In 1947 Saint Paul Mayor Edward Delaney secured Federal Housing Act funding to create the Saint Paul Housing Redevelopment Authority (HRA), which justified the removal of residences within the Capitol Area. The Virginia, Genesse, and Minnehaha Apartments seen on the 1916 plat map, were demolished in 1950 to make space for the Centennial Office Building[37] [38] (**Figure 5**). Through its design and placement, the Centennial Office Building serves as a wall which flanks the southeast radial from the Capitol, mirrored by the southwest radial wall which is created by the Minnesota Department of Transportation Building (RA-SPC-11131).

The Centennial Office Building was first inventoried in 1994 as part of the Central Corridor Historic Survey. At that time, it was described as,

> *The building is constructed with opulent materials, but is minimalist in its style. The first floor is somewhat featureless and its façade two-dimensional. It lacks the richness of texture, composition and flair of related buildings on the Mall. There is a simple, slender, free standing granite canopy over the main entrance[39].*

In 1994, the building was considered in good condition and retained good integrity. It was recommended that the Centennial Office Building "is significant for its association with Saint Paul's

[35] Gallo, et. al. 2022
[36] Gallo, et. al. 2022
[37] Hopkins, G.M. 1916. *Ramsey County, MN Plat Map*. Available from the John R, Borchert Map Library, University of Minnesota. Electronic document, http://geo.lib.umn.edu/collections/digitizedplatbooks/stpaul1916index.htm, accessed June 20, 2025.
[38] Gallo, et. al. 2022
[39] Hennepin County Regional Railroad Authority, et. al. 1996

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Urban Renewal efforts of the 1950s and 1960s. It is a contributing element of the [Capitol Mall Historic and Archaeological District] which has been recommended for eligibility to the National Register by this investigation"[40]. During subsequent architecture/history reviews of the Centennial Office Building, it continued to be recommended eligible as a contributing element to the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132). By 2016, SHPO had determined that the Centennial Office Building, as a contributing element, and the surrounding historic district (ERP #2016-0812) was eligible for listing in the NRHP.

As of 2025, a Capitol Mall cultural resources study is underway to reevaluate the NRHP eligibility of the Capitol Mall Historic and Archaeological District (RA-SPC-11132). Through this reevaluation, it is being expanded to include additional historic archaeological sites and buildings that make up the Capitol Mall. The newly defined district is recommended eligible under Criterion A, C, and D. "The primary focus of the Capitol Mall area is the Minnesota State Capitol Building, and the neighboring buildings, landscapes, and circulation (roads and sidewalks) are organized to emphasize views of and allow physical access to the Capitol"[41]. The Centennial Office Building (RA-SPC-06313), along with the Transportation Building (RA-SPC-08898) and the State Veterans Services (RA-SPC-6311) building are Modern style architecture, purposefully restrained in their detailing to be secondary to the Capitol building. "The buildings sited to the southeast and southwest of the Capitol are also important for physically framing the Upper and Lower Malls"[42]. All three buildings are considered contributing to the eligible Minnesota State Capitol Mall Historic and Archaeological District. As a designed landscape, the plan for the Capitol Mall has included these elements to frame and highlight the Capitol building, as seen in a site plan from 1947, fully realized by 1960 (**Figures 6 & 7**).

SUMMARY & RECOMMENDATIONS

An architecture/history study was completed by the Bolton & Menk, Inc. cultural resources team in October 2025 for the proposed Centennial Office Building demolition in Saint Paul, Ramsey County, Minnesota. During the literature review, five previously inventoried historic resources were identified, all of which are listed in/eligible for the NRHP, within a 0.10-mile research radius of the proposed project area. This includes the subject property, the Centennial Office Building (RA-SPC-06313). Additionally, four previous architecture/history surveys have been conducted within approximately 1 mile of the project area.

The proposed project includes the demolition of the Centennial Office Building (RA-SPC-06313) and replacing it with a temporary green space. As the building is contributing to the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132), its removal would be an adverse effect to the eligible historic district. Demolishing the building would remove a character-defining feature of the Capitol Mall, change the framing of the Capitol Building and the overall viewshed of the district, and potentially disrupt the planned landscape designed by Arthur Nichols; all important elements in conveying historical significance of the Minnesota State Capitol Mall Historic and Archaeological District (RA-SPC-11132). As such, **Bolton & Menk recommends that demolition of the Centennial Office Building will have an adverse effect to the eligible Minnesota State Capitol Mall Historic and Archaeological District**. It is recommended that consultation with SHPO take place in order to determine

[40] Hennepin County Regional Railroad Authority, et. al. 1996
[41] Gales, et. al. 2025:8
[42] Gales, et. al. 2025:30

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appropriate treatments and to seek ways to avoid and mitigate any adverse effects. Agreement on a suitable course of action will be needed before the project proceeds.

MITIGATION GUIDANCE

The National Park Service and the Minnesota SHPO offers guidance on mitigation efforts. The first is *Avoidance* or not demolishing the Centennial Office Building and instead rehabilitating it for continued use. Second is *Minimization* and working to preserve the form and feeling of the building in place. Finally, *Mitigation* to save as much information as possible prior to the full destruction of the building.

If demolition cannot be avoided, then a plan for mitigation is recommended in consultation with SHPO prior to the start of demolition. Statute 138.665 Sub. 2 states,

> *The state, state departments, agencies, and political subdivisions… have a responsibility to protect the physical features and historic character of properties… Before carrying out any undertaking that will affect designated or listed properties, or funding or licensing an undertaking by other parties, the state department or agency shall consult with the State Historic Preservation Office pursuant to the State Historic Preservation Office's established procedures to determine appropriate treatments and to seek ways to avoid and mitigate any adverse effects.*

This mitigation or treatment plan may include, but is not limited to, additional historical documentation of the building through the completion of a Level II Minnesota Historic Property Record (MHPR) according to the *Minnesota Historic Property Record Guidelines* (Updated June 2009; interpretation of the site following demolition; and designing the new space to be historically relevant and complimentary to the Capitol Mall Historic and Archaeological District. Exact mitigation details are recommended to be established in consultation with SHPO prior to the start of demolition.

CERTIFICATION OF RESULTS

I certify that this investigation was conducted and documented according to the Secretary of the Interior's Standards and Guidelines and that the report is complete and accurate to the best of my knowledge.

Bolton & Menk, Inc.

Kelly Wolf, MA, RPA
Principal Investigator

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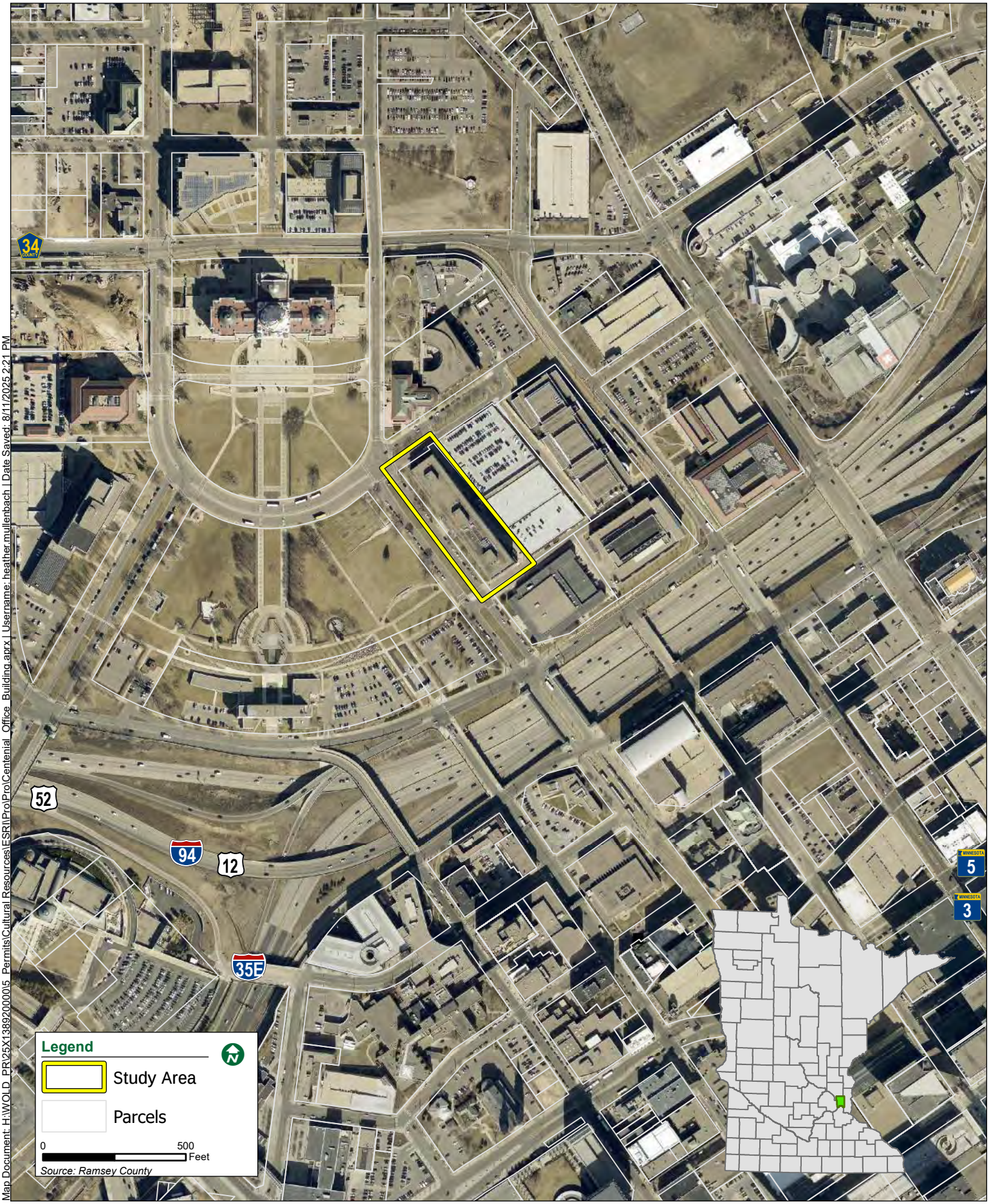
Centennial Office Building Demolition Project

Wold Architects

Figure 1 - Aerial Location

August 2025

BOLTON & MENK



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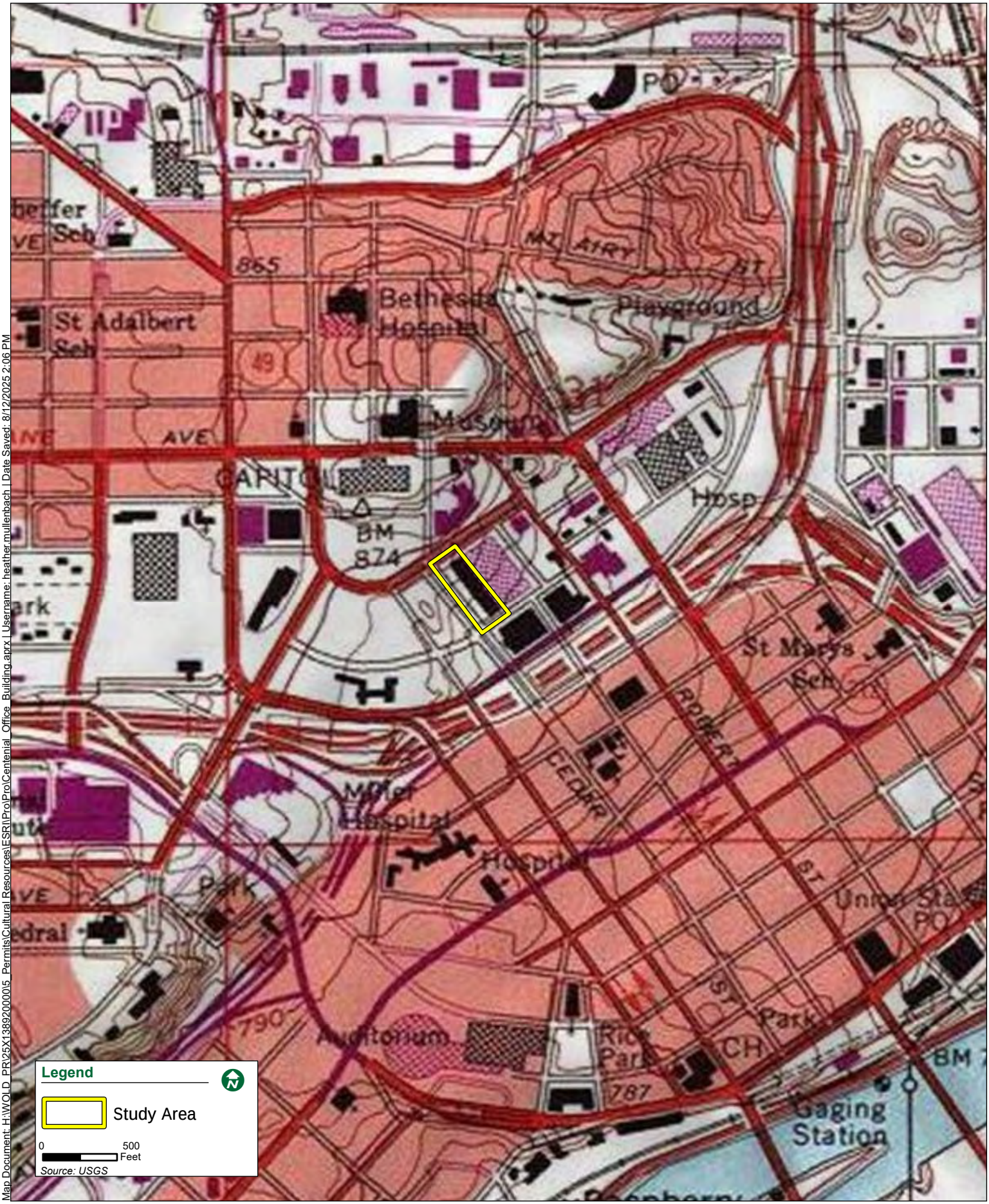
Centennial Office Building Demolition Project

Wold Architects

Figure 2 - USGS Location

August 2025

BOLTON & MENK



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Centennial Office Building Demolition Project

Figure 3 - Previously Recorded Historic Properties

Wold Architects

August 2025

BOLTON & MENK

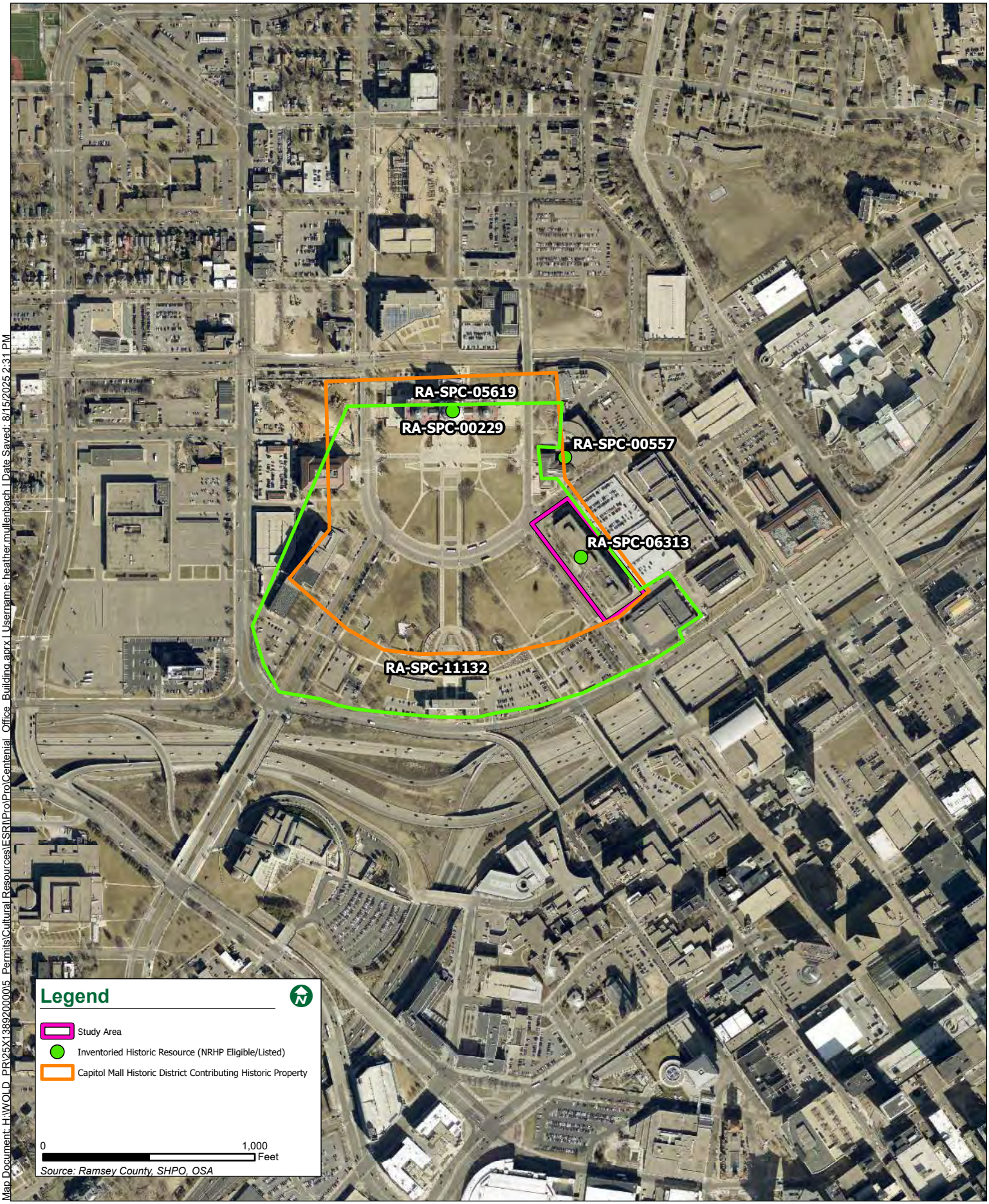

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Figure 4 - 1908 Plat Map

August 2025

BOLTON & MENK

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Centennial Office Building Demolition Project

Wold Architects

Figure 5 - 1916 Plat Map

August 2025

BOLTON & MENK

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Figure 6: Capitol Mall Site Plan c. 1947

Morell and Nichols Papers, Site Plan for the Capitol Area circa 1947 (Gales et. al. 2025:17)

Figure 7: Capitol Mall c. 1960

Capitol Area circa 1960, Postcard from the Minnesota Historical Society (Gales et. al. 2025:19).

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Appendix B: Proposed Project Plans

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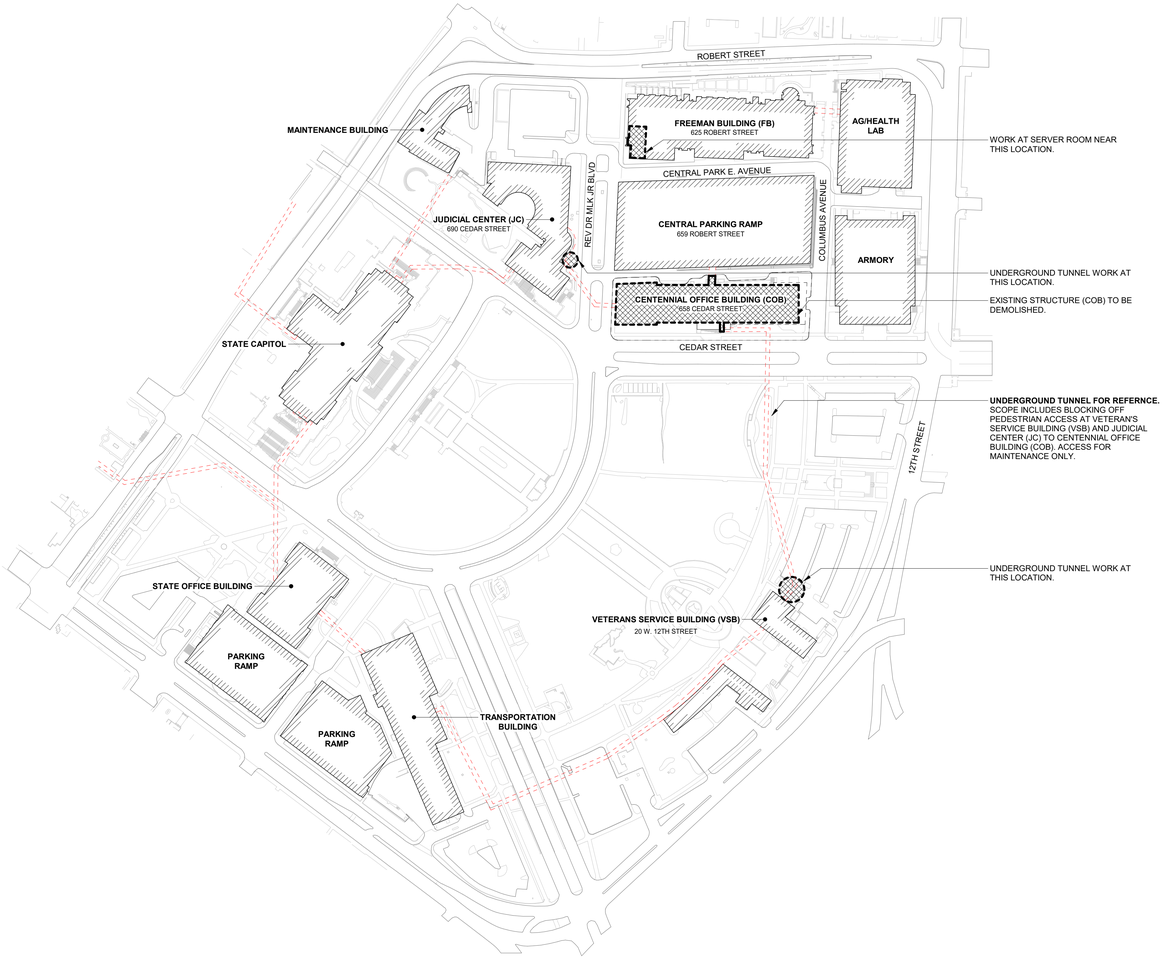
MN

CENTENNIAL OFFICE BUILDING DEMOLITION

STATE OF MINNESOTA

ST PAUL, MN



GENERAL

X-709	SURVEY - PARKING RAMP (FOR REFERENCE ONLY)
X-710	SURVEY - COB (FOR REFERENCE ONLY)

CIVIL

C1.01	REMOVALS PLAN
C2.01	SITE PLAN
C3.01	GRADING AND DRAINAGE PLAN
C4.01	UTILITIES AND EROSION PLAN
C4.02	STORMWATER POLLUTION PREVENTION PLAN - PROJECT INFORMATION
C4.03	STORMWATER POLLUTION PREVENTION PLAN - NARRATIVE & SOILS MAP
C5.01	DETAILS
C5.02	DETAILS
L1.01	LANDSCAPE PLAN
I1.01	IRRIGATION PLAN
I1.02	IRRIGATION DETAILS

ARCHITECTURAL

A1.000a	COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN
A1.000b	COB - LEVEL BASEMENT - DEMOLITION PLAN
A1.001a	COB - LEVEL GROUND - DEMOLITION PLAN
A1.001b	COB - LEVEL 1 - DEMOLITION PLAN
A1.002	COB - LEVEL 2 - DEMOLITION PLAN
A1.003	COB - LEVEL 3 - DEMOLITION PLAN
A1.004	COB - LEVEL 4 - DEMOLITION PLAN
A1.005	COB - LEVEL 5 - DEMOLITION PLAN
A1.006	COB - LEVEL PENTHOUSE - DEMOLITION PLAN
A1.100	PARKING RAMP - LEVEL 0 - DEMOLITION PLAN
A1.101	PARKING RAMP - LEVEL 1 - DEMOLITION PLAN
A1.102	PARKING RAMP - LEVEL 2 - DEMOLITION PLAN
A1.103	PARKING RAMP - LEVEL 3 - DEMOLITION PLAN
A1.104	PARKING RAMP - LEVEL 4 - DEMOLITION PLAN
A1.200	JC - LEVEL BASEMENT - DEMOLITION PLAN
A1.300	VSB - LEVEL BASEMENT - DEMOLITION PLAN
A1.400	FB - LEVEL BASEMENT - DEMOLITION PLAN
A1.500	COB - DEMOLITION WALL SECTIONS
A2.000a	COB - LEVEL SUB-BASEMENT - FLOOR PLAN
A2.000b	COB - LEVEL BASEMENT - FLOOR PLAN
A2.001	COB - SITE PLAN
A2.100	PARKING RAMP - LEVEL 0 - FLOOR PLAN
A2.101	PARKING RAMP - LEVEL 1 - FLOOR PLAN
A2.102	PARKING RAMP - LEVEL 2 - FLOOR PLAN
A2.103	PARKING RAMP - LEVEL 3 - FLOOR PLAN
A2.104	PARKING RAMP - LEVEL 4 - FLOOR PLAN
A2.200	JC - LEVEL BASEMENT - FLOOR PLAN
A2.300	VSB - LEVEL BASEMENT - FLOOR PLAN
A2.400	FB - LEVEL BASEMENT - FLOOR PLAN
A4.100	ROOM FINISH & OPENING SCHEDULES
A4.200	VERTICAL CIRCULATION - PLANS & SECTIONS
A5.101	EXTERIOR ELEVATIONS

STRUCTURAL

S0.000	STRUCTURAL TITLE SHEET
S2.001	PLAN SHEET
S5.201	SCHEDULES AND DETAILS

MECHANICAL

M0.0	MECHANICAL TITLE SHEET
M1.000a	COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN
M1.000b	COB - LEVEL BASEMENT - DEMOLITION PLAN
M1.001a	COB - LEVEL GROUND - DEMOLITION PLAN
M1.200	JC - LEVEL BASEMENT - DEMOLITION PLAN
M1.300	VSB - LEVEL BASEMENT - DEMOLITION PLAN
M1.400	FB - LEVEL BASEMENT - DEMOLITION PLAN
M2.000a	COB - LEVEL SUB-BASEMENT - NEW WORK PLAN
M2.000b	COB - LEVEL BASEMENT - NEW WORK PLAN
M2.200	JC - LEVEL BASEMENT - NEW WORK PLAN
M2.300	VSB - LEVEL BASEMENT - NEW WORK PLAN
M2.400	FB - LEVEL BASEMENT - NEW WORK PLAN
M3.100	MECHANICAL SCHEDULES

ELECTRICAL

E0.000	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E0.100	OVERALL PLAN
E1.000a	COB - LEVEL SUB-BASEMENT - ELECTRICAL DEMOLITION PLAN
E1.000b	COB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
E1.001a	COB - LEVEL GROUND - ELECTRICAL DEMOLITION PLAN
E1.001b	COB - LEVEL 1 - ELECTRICAL DEMOLITION PLAN
E1.100	PARKING RAMP - LEVEL 0 - ELECTRICAL DEMOLITION PLAN
E1.101	PARKING RAMP - LEVEL 1 - ELECTRICAL DEMOLITION PLAN
E1.102	PARKING RAMP - LEVEL 2 - ELECTRICAL DEMOLITION PLAN
E1.103	PARKING RAMP - LEVEL 3 - ELECTRICAL DEMOLITION PLAN
E1.104	PARKING RAMP - LEVEL 4 - ELECTRICAL DEMOLITION PLAN
E1.200	JC - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
E1.300	VSB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
E1.400	FB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
E2.000a	COB - LEVEL SUB-BASEMENT - ELECTRICAL PLAN
E2.000b	COB - LEVEL BASEMENT - ELECTRICAL PLAN
E2.100	PARKING RAMP - LEVEL 0 - ELECTRICAL PLAN
E2.101	PARKING RAMP - LEVEL 1 - ELECTRICAL PLAN
E2.200	JC - LEVEL BASEMENT - ELECTRICAL PLAN
E2.300	VSB - LEVEL BASEMENT - ELECTRICAL PLAN
E2.400	FB - LEVEL BASEMENT - ELECTRICAL PLAN
E3.100	PARKING RAMP - LEVEL 0 - SYSTEMS PLAN
E3.101	PARKING RAMP - LEVEL 1 - SYSTEMS PLAN
E3.102	PARKING RAMP - LEVEL 2 - SYSTEMS PLAN
E3.103	PARKING RAMP - LEVEL 3 - SYSTEMS PLAN
E3.104	PARKING RAMP - LEVEL 4 - SYSTEMS PLAN
E3.200	OVERALL SITE SYSTEMS CABLE PATHWAY - SYSTEMS PLAN
E4.000	ELECTRICAL RISER DIAGRAMS
E7.10	ELECTRICAL DETAILS - SYSTEMS
E7.11	ELECTRICAL DETAILS - SYSTEMS
E7.12	ELECTRICAL DETAILS - SYSTEMS

DESIGN DEVELOPMENT ESTIMATE SET

NOT FOR CONTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

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BKBM Project No. 24394.00

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

COVER SHEET

Scale: 1" = 160'-0"

A0.000

A

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BOUNDARY & TOPOGRAPHIC SURVEY

SHEET NO.
X-709

BOUNDARY & TOPOGRAPHIC SURVEY
ST. PAUL, MN

BOLTON & MENK, INC.
Consulting Engineers & Surveyors
12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
(952)-890-0509

Survey of Capitol Complex

FOR: MN DEPARTMENT OF ADMINISTRATION
REAL ESTATE & CONSTRUCTION SERVICES

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JOB NUMBER: T12.109019 FIELD BOOK: SEE FILE DRAWN BY: VAW/ERW/MML FILE NO. 5050 DWG. NO. 3821

56-T28-R22-22; 531-T29-R22-23,24,30; 536-T29-R23-41,44

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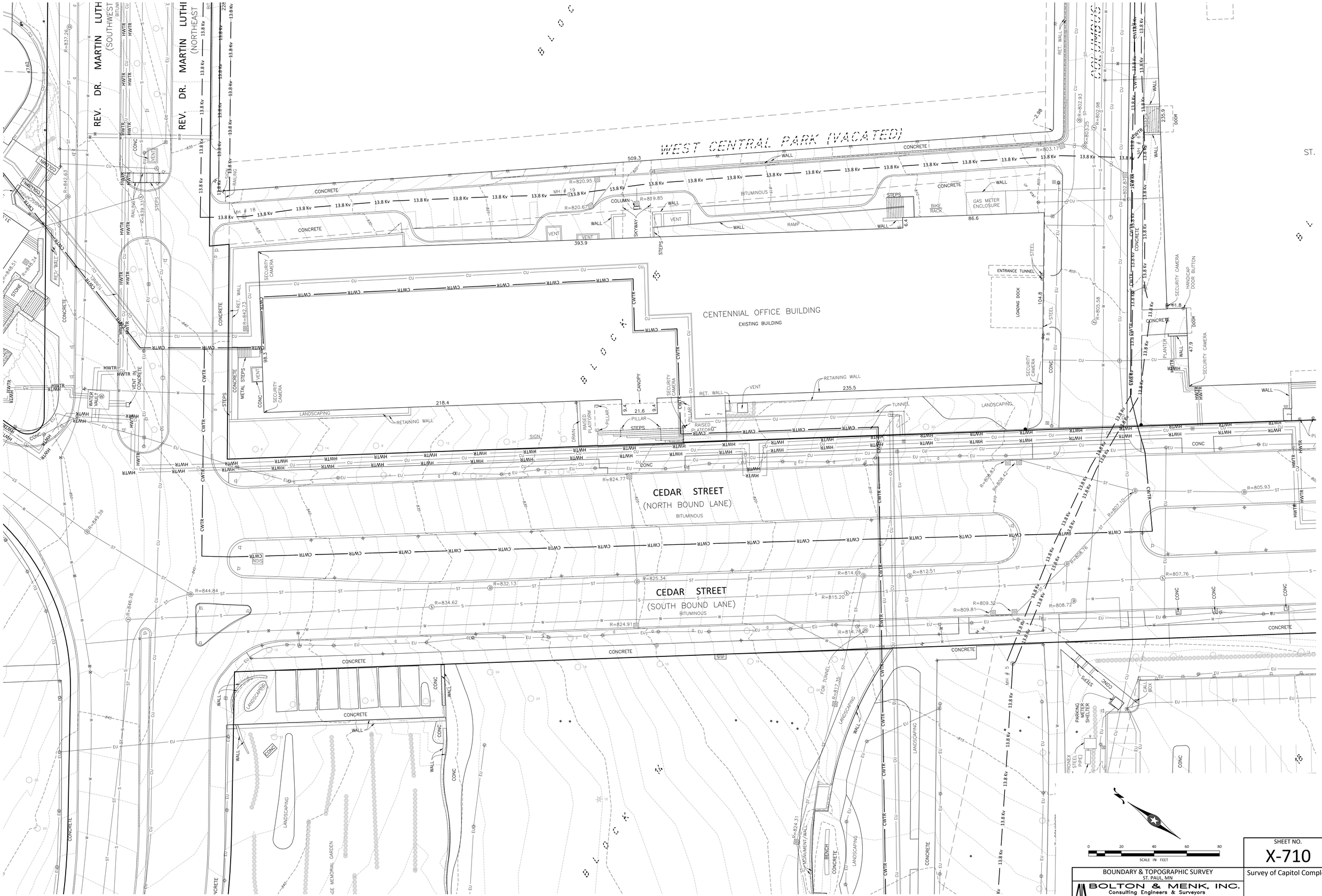
BOUNDARY & TOPOGRAPHIC SURVEY



SHEET NO.

X-710

Survey of Capitol Complex

BOUNDARY & TOPOGRAPHIC SURVEY
ST. PAUL, MN

BOLTON & MENK, INC.
Consulting Engineers & Surveyors
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REAL ESTATE & CONSTRUCTION SERVICES

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H:\MNRECS_ST_MN\T12109019\CAD\C3D\SDB109019 JOB NUMBER: T12.109019 FIELD BOOK: SEE FILE DRAWN BY: VAW/ERW/MML FILE NO. 5050 DWG. NO. 3821

56-T28-R22-22; 531-T29-R22-23,24,30; 536-T29-R23-41,44

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

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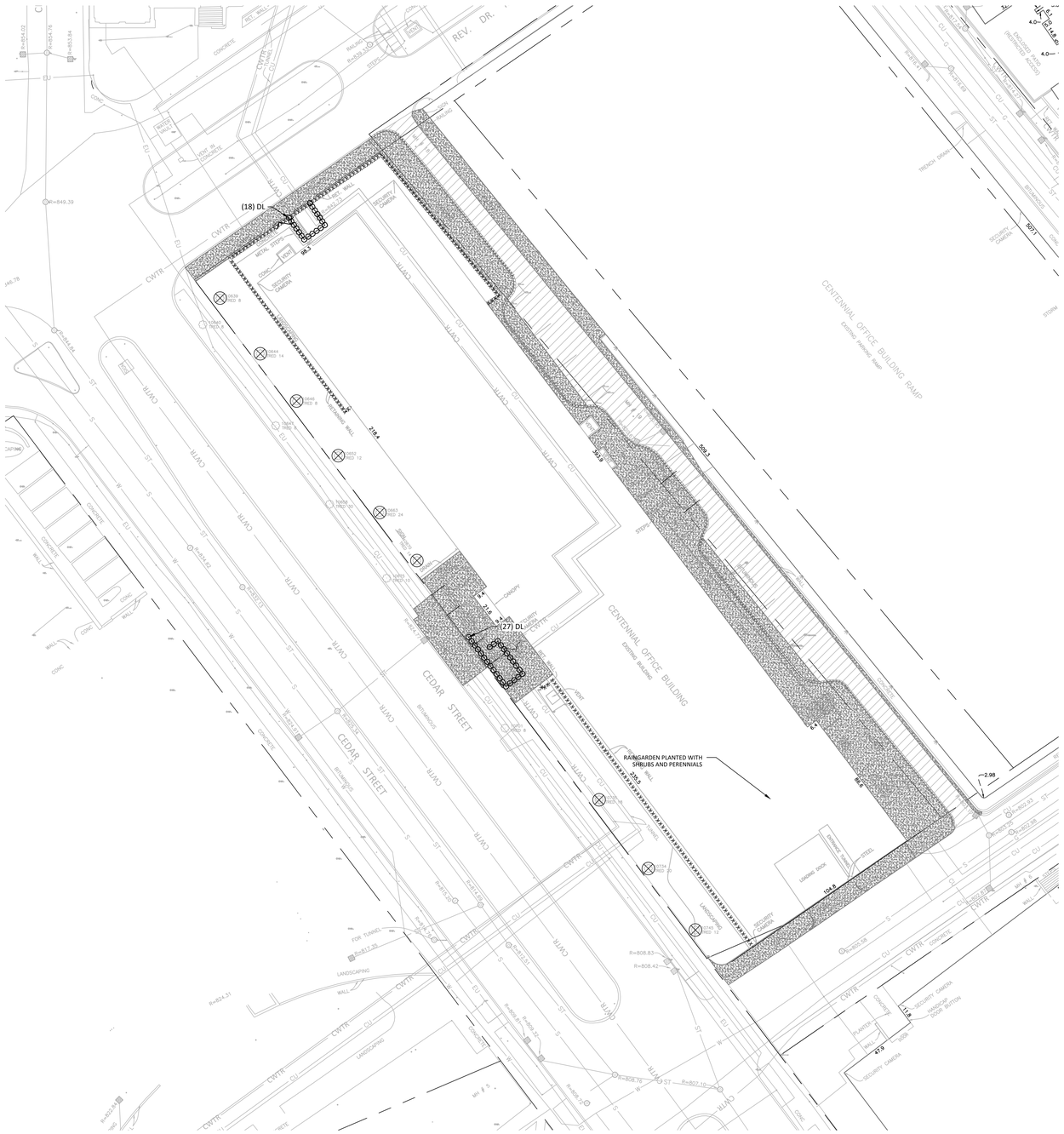

NOTES

1. REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
2. MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING VEGETATION AND SITE FEATURES (CURBS, WALKS, PAVEMENTS, OVERHEAD AND UNDERGROUND UTILITIES, SIGNAGE, FENCING, ROADWAYS, ETC.) WHICH ARE TO REMAIN.
3. REPAIR OR REPLACE EXISTING PROPERTY AND SITE FEATURES, INCLUDING GRASS AND VEGETATION, WHICH IS TO REMAIN THAT IS DAMAGED BY THE WORK, TO THE OWNER'S SATISFACTION AND AT NO ADDITIONAL COST TO THE OWNER.
4. VISIT THE SITE PRIOR TO BIDDING; BE FAMILIAR WITH ACTUAL CONDITIONS IN THE FIELD. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR CONDITIONS WHICH COULD HAVE BEEN DETERMINED OR ANTICIPATED BY EXAMINATION OF THE SITE, THE CONTRACT DRAWINGS AND THE INFORMATION AVAILABLE PERTAINING TO EXISTING SOILS, UTILITIES AND OTHER SITE CHARACTERISTICS.
5. HIRE THE SERVICES OF A UTILITY LOCATOR COMPANY TO LOCATE ALL PRIVATELY OWNED UTILITIES THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS.
6. MAINTAIN DRAINAGE FROM EXISTING BUILDING AT ALL TIMES. PROVIDE TEMPORARY STORM SEWER, INCLUDING, BUT NOT LIMITED TO, CATCH BASINS, MANHOLES, PIPING, AND SIMILAR. DO NOT REMOVE EXISTING STORM SEWER UNTIL TEMPORARY OR PERMANENT STORM SEWER IS INSTALLED AND FUNCTIONAL. COORDINATE ALL REMOVALS WITH APPROPRIATE TRADES (SITE UTILITY CONTRACTOR, MECHANICAL CONTRACTOR, ETC.) AS REQUIRED.

LEGEND

- CONCRETE CURB AND GUTTER REMOVALS
- UNDERGROUND UTILITY REMOVALS
- CONCRETE PAVEMENT REMOVALS
- ASPHALT PAVEMENT REMOVALS
- RAILING REMOVALS
- RETAINING WALL REMOVALS
- SAWCUT
- TREE REMOVAL
- PROPERTY LINE

C

HORZ. 0 30 60 SCALE FEET

CENTENNIAL OFFICE BUILDING

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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 **LANDSCAPE ARCHITECT** under the laws of the State of **MINNESOTA**

RICHARD KOECHLEIN
Registration Number **26678** Date **10/08/2024**

Revisions		
Description	Date	Num

Comm: 232356
Date: 10/08/2024
Drawn: CDL
Check: RWK

North

REMOVALS PLAN

Scale: **As Indicated**

C1.01

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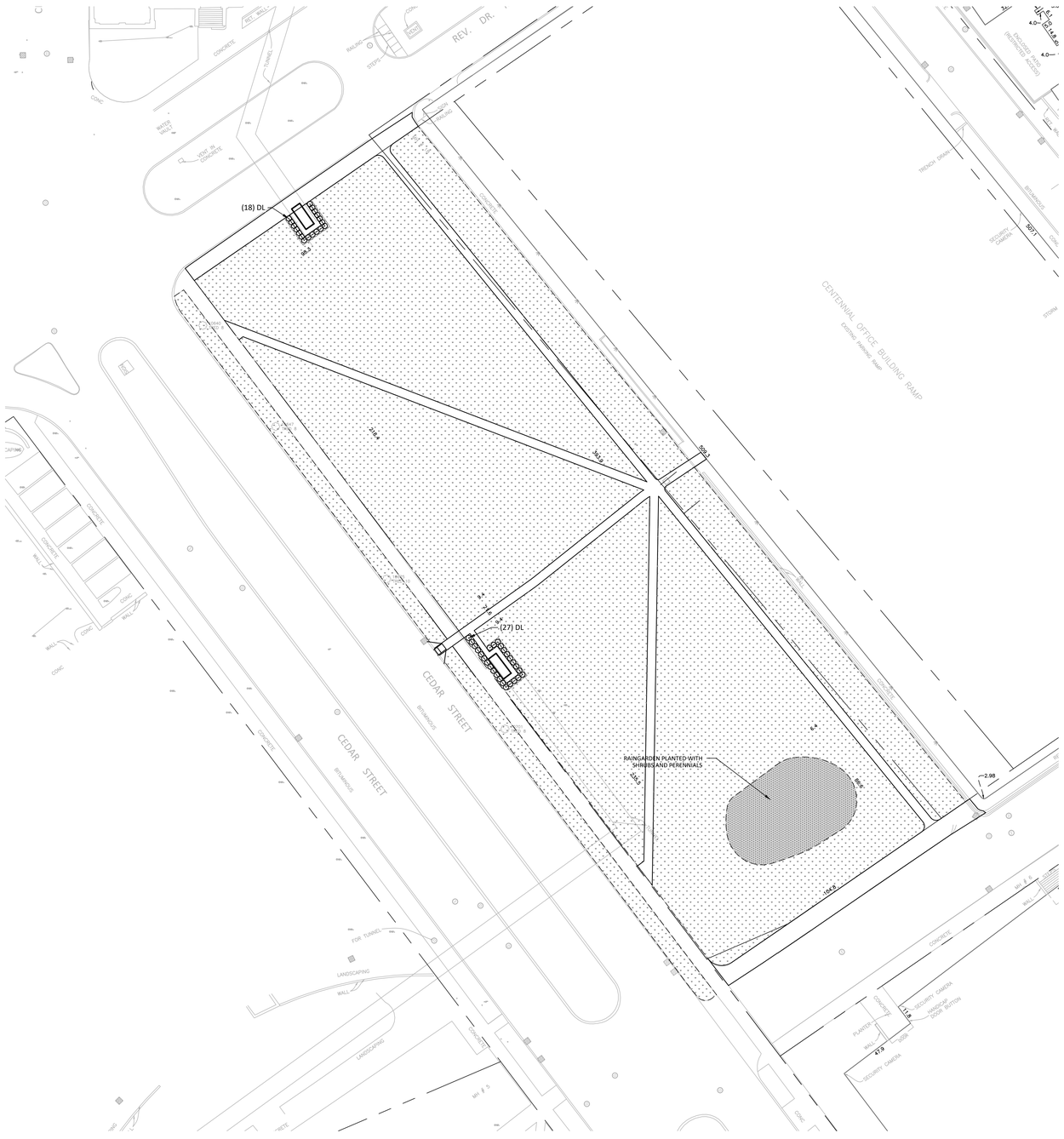

NOTES

1. REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
2. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
3. TRAFFIC SIGNS SHALL BE INSTALLED 18" BEHIND THE BACK OF CURB OR EDGE OF PAVEMENT.
4. ALL DISTURBED AREAS, WHICH ARE NOT DESIGNATED TO BE PAVED, SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED
5. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER OR LANDSCAPE ARCHITECT.

LEGEND

1 / C5.01	REFERENCE KEY TO SITE DETAILS DETAIL I.D. NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)
	PROPOSED CONCRETE WALK
	PROPOSED CONCRETE SLAB
	PROPOSED ASPHALT PAVEMENT
	PROPOSED SOD LIMITS
	PROPOSED MULCH BED
	PROPOSED TRAFFIC SIGN
	PROPOSED MANHOLE (MH)
	PROPOSED CATCH BASIN (CB)
	PROPOSED LIGHT POLE - REFER TO ELECTRICAL PLANS
	PROPERTY LINE

HORZ. SCALE 0 30 60 FEET

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RICHARD KOECHLEIN
Registration Number **26678** Date **10/08/2024**

Revisions		
Description	Date	Num

Comm: **232356**
Date: **10/08/2024**
Drawn: **CDL**
Check: **RWK**

North

SITE PLAN

Scale: **As Indicated**

C2.01

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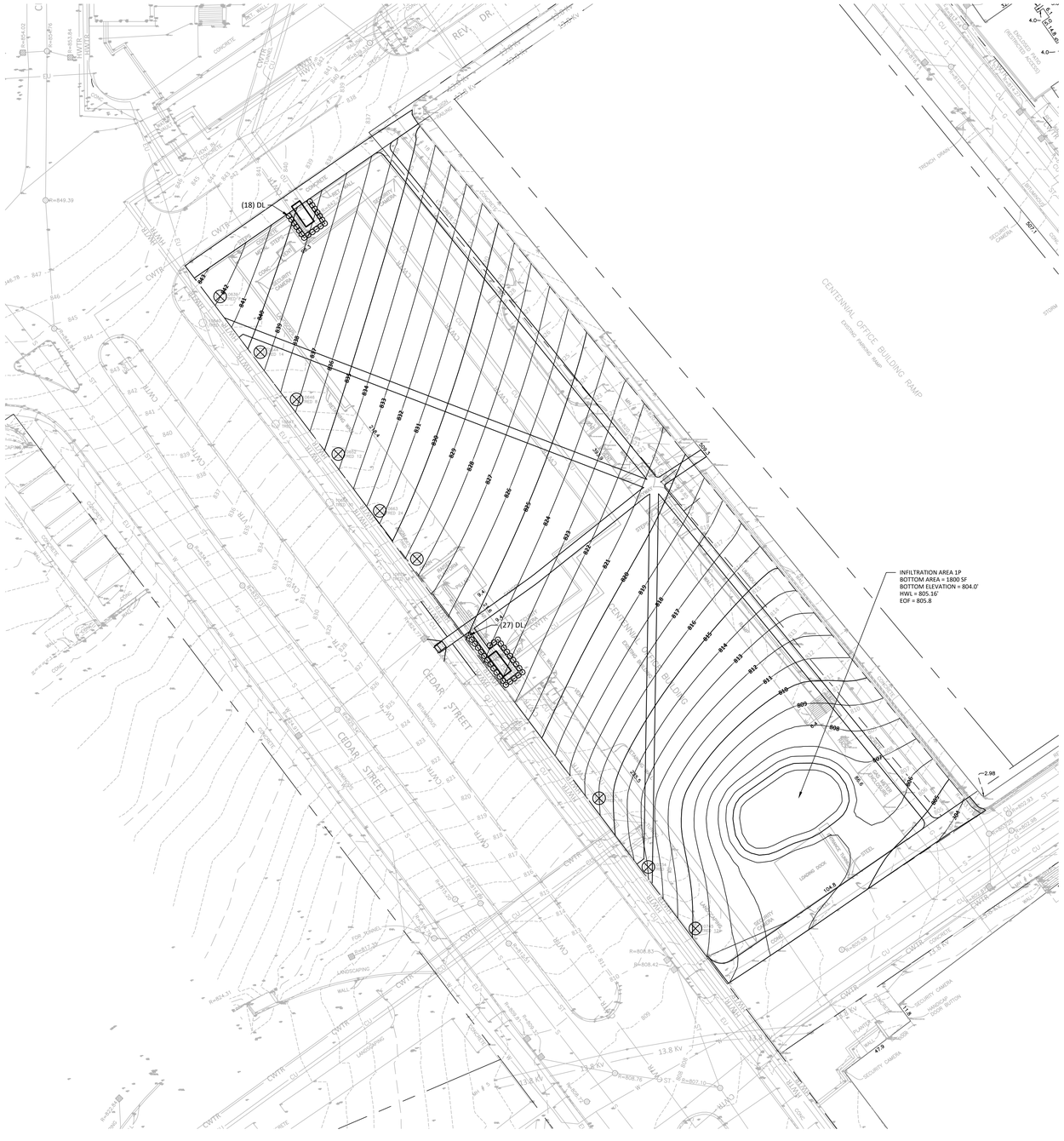

C

GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL CONSTRUCTION STAKING / LAYOUT.
3. OBTAIN AND PAY FOR ALL RELATED CONSTRUCTION PERMITS, INCLUDING THE NPDES PERMIT FROM THE MPCA. SUBMIT A COPY OF ALL PERMITS TO THE CITY.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL SIGNAGE (CONSTRUCTION ZONES) NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. ALL SIGNAGE LAYOUTS MUST BE DESIGNED BY THE CONTRACTOR AND APPROVED BY LOCAL AUTHORITIES.
5. INSTALL CONTROL FENCING AND BARRICADING AS NECESSARY TO PROTECT THE PUBLIC.
6. INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF MATERIALS TO BE HANDLED.
7. REFER TO SPECIFICATIONS FOR DEWATERING REQUIREMENTS.
8. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
9. REFER TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE, SHEET XXX, FOR EROSION CONTROL REQUIREMENTS. SECTION 31 00 00 SHALL BE RESPONSIBLE FOR FULL IMPLEMENTATION OF THE SWPPP.
10. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
11. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
12. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND LOCAL REGULATIONS.
13. MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING SITE FEATURES (INCLUDING TURF AND VEGETATION) WHICH ARE TO REMAIN.
14. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISH GRADE UNLESS OTHERWISE NOTED.
15. PROPOSED ELEVATIONS SHOWN TYPICALLY AS 10.1 OR 10 SHALL BE UNDERSTOOD TO MEAN 810.1 OR 810.
16. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ORDER TO COMPLETELY PERFORM ALL WORK INDICATED ON THE DRAWINGS. IMPORT SUITABLE MATERIAL AND EXPORT UNSUITABLE / EXCESS / WASTE MATERIAL, AS REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
17. NO FINISHED SLOPES SHALL EXCEED 4' HORIZONTAL TO 1' VERTICAL (4:1), UNLESS OTHERWISE NOTED.
18. ALL DISTURBED AREAS, WHICH ARE NOT DESIGNATED TO BE PAVED, SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.
19. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, RE-SEED ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER OR LANDSCAPE ARCHITECT.
20. ALL STORM SEWER PIPE SHALL BE RCP CLASS III (MIN.) WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
21. ALL STORM SEWER PIPE CROSSING WATERMAIN, OUTSIDE OF THE PUBLIC RIGHT-OF-WAY, SHALL BE ASTM D2665, SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS.
22. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
    a. IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
    b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
        i. FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
        ii. PRESS-SEAL, WATERSTOP GROUTING RINGS"
        iii. OR APPROVED EQUAL.
23. INSTALL MANOLES, CATCH BASINS, STORM SEWER, SANITARY SEWER, DRAIN TILE, AND OTHER POTENTIAL SOURCES OF CONTAMINATION AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MN PLUMBING CODE. THIS ISOLATION DISTANCE IS MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR SIMILAR).
24. LOCATE ALL EXISTING UTILITIES. VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. BEFORE BEGINNING CONSTRUCTION.
25. STAKE LIMITS OF WALKS AND CURBING PRIOR TO INSTALLATION OF GATE VALVES, CATCH BASINS, AND MANHOLES. ADJUST GATE VALVE AND MANHOLE LOCATIONS TO AVOID PLACEMENT OF THESE STRUCTURES IN WALKS AND CURB AND GUTTER. STAKE CURB AND GUTTER ALIGNMENTS TO ALLOW CURB INLET TYPE CATCH BASINS TO PROPERLY ALIGN WITH CURB AND GUTTER.

LEGEND

1 / C5.01	REFERENCE KEY TO SITE DETAILS DETAIL I.D. NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)
810	EXISTING CONTOUR
8.10	EXISTING SPOT ELEVATION
810	PROPOSED CONTOUR
10.0	PROPOSED SPOT ELEVATION ME = MATCH EXISTING EOF = EMERGENCY OVERFLOW TC = TOP OF CURB
	PROPOSED GRADING LIMITS
SB#1	APPROXIMATE SOIL BORING / TEST PIT LOCATION
	PROPOSED MANHOLE (MH)
	PROPOSED CATCH BASIN (CB)
	PROPERTY LINE

HORZ. SCALE 0 30 60 FEET

CENTENNIAL OFFICE BUILDING

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LANDSCAPE ARCHITECT
under the laws of the State of **MINNESOTA**

RICHARD KOECHLEIN
Registration Number **26678** Date **10/08/2024**

Revisions

Description	Date	Num

Comm: 232356
Date: 10/08/2024
Drawn: CDL
Check: RWK

North

GRADING AND DRAINAGE PLAN

Scale: **As Indicated**

C3.01

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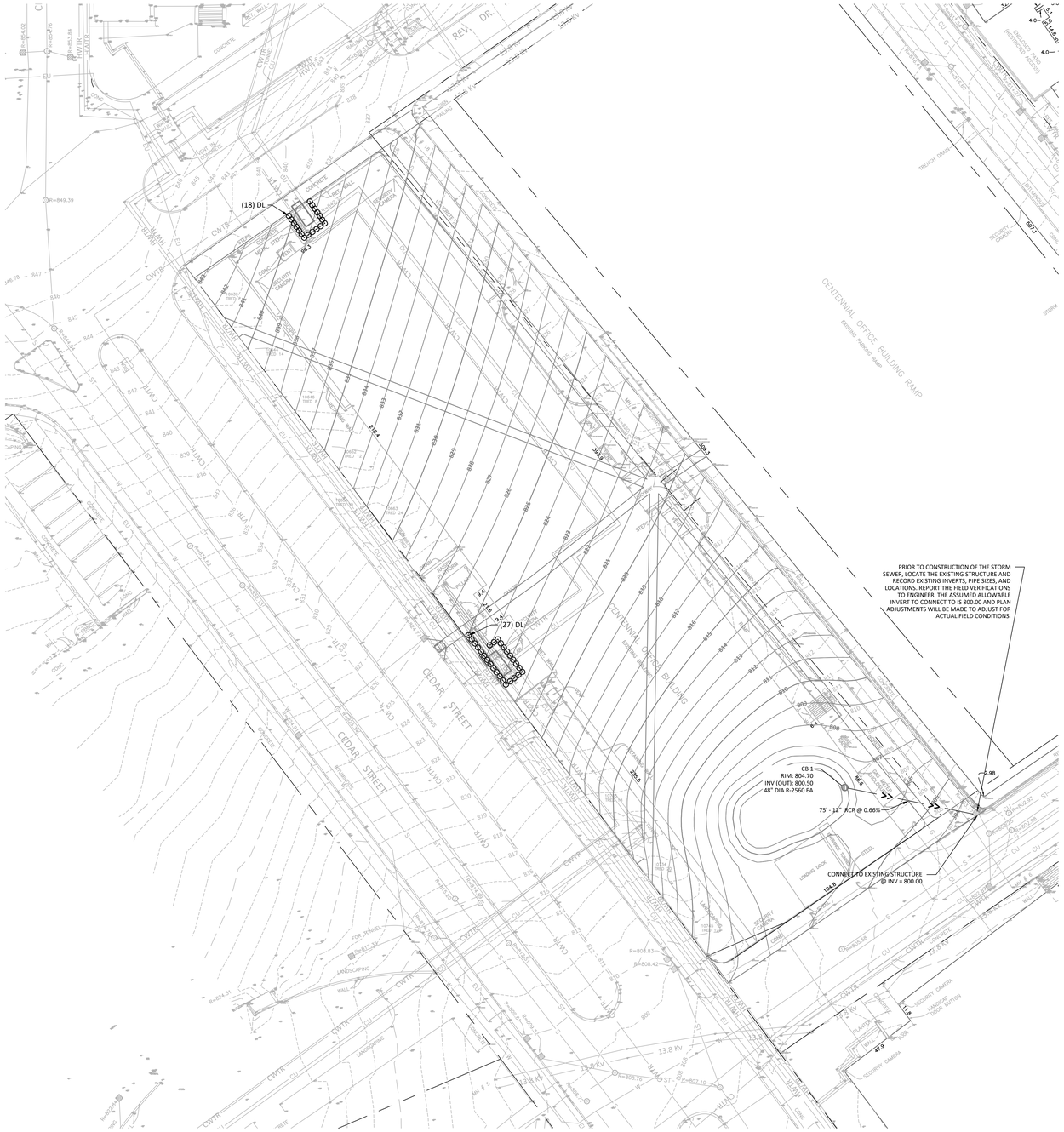

C

NOTES

1. REFER TO SHEET CXXX, XXXXXXX, FOR GENERAL NOTES.
2. ALL WATERMAIN PIPE SHALL BE DIP, CLASS 52. ALL WATERMAIN SHALL HAVE MINIMUM 8'-0" BURY (TOP OF PIPE TO FINISH GRADE). DIP SHALL BE ENCASED WITH POLYETHYLENE FILM CONFORMING TO ASTM D 1248-889.
3. ALL WATERMAIN SHALL BE AWWA C900, CAST IRON OD, DR 18, PVC PIPE INSTALLED IN ACCORDANCE WITH ASTM D2321. ALL WATERMAIN SHALL HAVE MINIMUM 8'-0" BURY (TOP OF PIPE TO FINISH GRADE).
4. ALL WATER SERVICE PIPE SHALL BE COPPER TYPE K CONFORMING TO ASTM B 88-62. ALL WATER SERVICE PIPING SHALL HAVE MINUMUM 8'-0" BURY (TOP OF PIPE TO FINISH GRADE).
5. ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, SDR 26), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.
6. ALL SANITARY SEWER PIPE CROSSING WATERMAIN, OUTSIDE OF THE PUBLIC RIGHT-OF-WAY, SHALL BE ASTM D2665, SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS.
7. ALL STORM SEWER PIPE SHALL BE RCP CLASS III (MIN.) WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
8. ALL STORM SEWER PIPE CROSSING WATERMAIN, OUTSIDE OF THE PUBLIC RIGHT-OF-WAY, SHALL BE ASTM D2665, SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS.
9. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
   a. IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
   b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
      i. FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
      ii. PRESS-SEAL, WATERSTOP GROUTING RINGS"
      iii. OR APPROVED EQUAL.
10. INSTALL WATERMAIN AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE, OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MN PLUMBING CODE. THIS ISOLATION DISTANCE IS MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR SIMILAR).
11. INSTALL MANOLES, CATCH BASINS, STORM SEWER, SANITARY SEWER, DRAIN TILE, AND OTHER POTENTIAL SOURCES OF CONTAMINATION AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MN PLUMBING CODE. THIS ISOLATION DISTANCE IS MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR SIMILAR).
12. LOCATE ALL EXISTING UTILITIES. VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
13. PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (STORM, SANITARY SEWER, WATERMAIN), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.
14. MAINTAIN DRAINAGE FROM EXISTING BUILDING AT ALL TIMES. PROVIDE TEMPORARY STORM SEWER, INCLUDING, BUT NOT LIMITED TO, CATCH BASINS, MANHOLES, PIPING, AND SIMILAR. DO NOT REMOVE EXISTING STORM SEWER UNTIL TEMPORARY OR PERMANENT STORM SEWER IS INSTALLED AND FUNCTIONAL. COORDINATE ALL REMOVALS WITH APPROPRIATE TRADES (SITE UTILITY CONTRACTOR, MECHANICAL CONTRACTOR, ETC.) AS REQUIRED.
15. STAKE LIMITS OF WALKS AND CURBING PRIOR TO INSTALLATION OF GATE VALVES, CATCH BASINS, AND MANHOLES. ADJUST GATE VALVE AND MANHOLE LOCATIONS TO AVOID PLACEMENT OF THESE STRUCTURES IN WALKS AND CURB AND GUTTER. STAKE CURB AND GUTTER ALIGNMENTS TO ALLOW CURB INLET TYPE CATCH BASINS TO PROPERLY ALIGN WITH CURB AND GUTTER.
16. REFER TO SWPPP NARRATIVE, SHEET XXX, FOR CONSTRUCTION SEQUENCING AND EROSION CONTROL REQUIREMENTS.
17. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
18. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
19. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND OTHER LOCAL REGULATIONS.
20. IF EROSION AND SEDIMENT CONTROL MEASURES TAKEN ARE NOT ADEQUATE AND RESULT IN DOWNSTREAM SEDIMENTATION, CLEAN OUT DOWNSTREAM STORM SEWERS AND OTHER CONVEYANCE DEVICES AS NECESSARY, INCLUDING ASSOCIATED RESTORATION.
21. INLET PROTECTION DEVICE AT STORM SEWER INLETS. AT THE INLETS TO ALL STORM SEWER STRUCTURES, PROVIDE A PRODUCT FROM THE FOLLOWING LIST OF APPROVED PRODUCTS:
    a. ROAD DRAIN "TOP SLAB", MANUFACTURED BY WIMCO
    b. ROAD DRAIN "CURB & GUTTER", MANUFACTURED BY WIMCO
    c. INFRASAFE "SEDIMENT CONTROL BARRIER", MANUFACTURED BY ROYAL ENVIRONMENTAL SYSTEMS, INC.
    d. INFRASAFE "DEBRIS COLLECTION DEVICE", MANUFACTURED BY ROYAL ENVIRONMENTAL SYSTEMS, INC.
    e. INFRASAFE "CULVERT INLET PROTECTOR", MANUFACTURED BY ROYAL ENVIRONMENTAL SYSTEMS, INC.
    f. DANDY SACK, MANUFACTURED BY DANDY PRODUCTS, INC.
    g. DANDY CURB SACK, MANUFACTURED BY DANDY PRODUCTS, INC.
    h. OR APPROVED EQUAL.
21. PRIOR TO CONSTRUCTION, DELINEATE TURF AND VEGETATED AREAS NOT TO BE DISTURBED WITH ORANGE SNOW FENCE. DO NOT ALLOW CONSTRUCTION TRAFFIC, EQUIPMENT, OR MATERIALS TO UTILIZE, ACCESS, OR OTHERWISE ENTER THE DELINEATED AREAS. MINIMIZE SOIL COMPACTION AND DISRUPTION OF TOPSOIL IN AREAS OUTSIDE THE CONSTRUCTION LIMITS TO COMPLY WITH THE MN CONSTRUCTION STORMWATER PERMIT.

LEGEND

- REFERENCE KEY TO SITE DETAILS — DETAIL I.D. NUMBER (TOP), DETAIL SHEET NUMBER (BOTTOM)
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
  - ME = MATCH EXISTING
  - EOF = EMERGENCY OVERFLOW
  - TC = TOP OF CURB
  - TW = FINISH GRADE AT HIGH SIDE OF WALL
  - BW = FINISH GRADE AT LOW SIDE OF WALL
- PROPOSED GRADING LIMITS
- PROPOSED STORM SEWER
- PROPOSED DRAIN TILE (DT) / SUBSURFACE DRAINS (SD)
- PROPOSED MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- INLET PROTECTION DEVICE AT STORM SEWER INLET
- PROPOSED SILT FENCE
- PROPOSED SEDIMENT CONTROL LOG
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY DIVERSION BERM
- PROPERTY LINE

HORZ. SCALE 0 30 60 FEET

CENTENNIAL OFFICE BUILDING

658 CEDAR STREET
SAINT PAUL, MN 55155

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332 Minnesota Street, Suite W2000
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www.bolton-menk.com

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 **LANDSCAPE ARCHITECT** under the laws of the State of **MINNESOTA**

RICHARD KOECHLEIN
Registration Number **26678** Date **10/08/2024**

Revisions		
Description	Date	Num

Comm: 232356
Date: 10/08/2024
Drawn: CDL
Check: RWK

North

UTILITIES AND EROSION PLAN

Scale: **As Indicated**

C4.01

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

MN

Information contained in this SWPPP narrative sheet summarizes requirements of the GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM PROGRAM - Permit No: MN Rl0000l (Permit) as they apply to this project. All provisions of the Permit including those not specifically cited herein shall apply to this project. The Contractor is responsible to be familiar with and comply with all conditions of the permit. The full text of the Permit is available at: https://www.pca.state.mn.us/sites/default/files/wq-strm2-80a.pdf

SWPPP AMENDMENTS AND SUBMITTALS

Contractor must prepare and submit to the Engineer a SWPPP amendment as necessary to include additional Best Management Practices (BMPs) to correct problems identified or address the following situations.

1. Contact information and training documentation for Construction SWPPP Manager and BMP Installer,
2. There is a change in construction method of phasing, operation, maintenance, weather or seasonal conditions not anticipated during the design of the SWPPP including but not limited to:
   a. Types and/or Locations of BMPs
   b. Material Storage and Spill Response
   c. Fueling Plans
   d. Locations for Stockpiles, Concrete Washout, and Sanitation Facilities and
   e. Project Phasing
3. It is determined that the SWPPP is not achieving objectives of minimizing pollutants in stormwater discharges associated with construction activity, or
4. The SWPPP is not consistent with the terms and conditions of the permit.

The Contractor may implement SWPPP amendments immediately and is not required to wait for Engineer review of the submittal. The responsibility for completeness of SWPPP amendments and compliance with the Permit lies with the Contractor. Review, comment, or lack of comment by the Engineer on a SWPPP amendment shall not absolve the responsibilities of the Contractor in any way.

If a change order is issued for a design change the SWPPP amendment will be prepared by the Engineer and included in the change order.

In addition to SWPPP amendments, the Contractor shall submit to the Engineer Weekly Erosion and Sediment Control Schedule meeting the requirements of MnDOT 1717.

The Contractor shall keep copies of all SWPPP amendments, Weekly Erosion and Sediment Control Schedules, inspection logs, and maintenance logs with the field copy of the SWPPP. A PDF copy of these documents will be provided along with a copy of the final Field Copy of the SWPPP to the Engineer along with the signed Notice of Termination when final stabilization is complete.

EROSION PREVENTION PRACTICES

Stormwater conveyance channels shall be routed around unstabilized areas. Erosion controls and velocity dissipation devices shall be used at outlets within and along the length of any constructed conveyance channel.

The normal wetted perimeter of all ditches or swales, including storm water management pond slopes, that drain waters from the site must be stabilized within 200' of any property edge or discharge point, including storm sewer inlets, within 24 hours of connection.

Temporary or permanent ditches or swales used as sediment containment during construction do not need to be stabilized during temporary period of use and shall be stabilized within 24 hours after no longer used as sediment containment.

Mulch, hydromulch, tackifier, or similar practice shall not be used in any portion of the wetted perimeter of a temporary or permanent drainage ditch or swale section with a continuous slope of greater than 2 percent.

Energy dissipation shall be installed at all temporary or permanent pipe outlets within 24 hours of connection to a surface water or permanent stormwater treatment system.

The Contractor shall phase construction and use construction methods to the extent practical to minimize exposed soils. The project phasing shall be documented in the Weekly Erosion and Sediment Control Schedule.

SEDIMENT CONTROL PRACTICES

Down gradient BMPs including perimeter BMPs must be in place before up gradient land- disturbing activities begin and shall remain in place until final stabilization.

All BMPs that have been adjusted or removed to accommodate short-term activities shall be re-installed or replaced the earlier of the end of the work day or before the next precipitation event even if the activity is not complete.

Inlet BMPs may be removed for specific safety concerns. The BMPs shall be replaced as soon as the safety concern is resolved. The removal shall be documented in the SWPPP as a SWPPP amendment.

Temporary stockpiles must have sediment control BMPs. The Contractor shall prepare and submit to the Engineer a SWPPP amendment showing the location of temporary stockpiles and the BMPs for each stockpile. The SWPPP amendment must meet the minimum requirements of Section 9 of the Permit.

Soil compaction shall be minimized and topsoil shall be preserved, unless infeasible or if construction activities dictate soil compaction or topsoil stripping.

The use of polymers, flocculants, or other sedimentation treatment chemicals are not proposed as part of this SWPPP as designed by the Engineer. If methods or phasing of construction require the use of any of these chemicals, the Contractor shall prepare and submit to the Engineer a SWPPP amendment that meets the minimum requirements of Section 9 of the Permit.

TEMPORARY SEDIMENTATION BASINS

A temporary sedimentation basin has not been included in this SWPPP as designed by the Engineer. If a basin is later determined to be desirable or necessary the Contractor shall prepare and submit to the Engineer a SWPPP amendment. Temporary sedimentation basins shall meet or exceed the minimum requirements of Section 14 of the Permit and shall include a basin draining plan meeting or exceeding the minimum requirements of Section 10 of the Permit. Where the site discharges to Special and/or Impaired Waters the SWPPP amendment shall also meet or exceed the minimum requirements of Section 23 of the permit.

DEWATERING

A dewatering plan has not been included in this SWPPP as designed by the Engineer. If dewatering is required for this project, the Contractor shall prepare and submit to the Engineer a SWPPP amendment. All dewatering shall meet or exceed the minimum requirements of Section 10 of the Permit.

POLLUTION PREVENTION

Products and materials that have the potential to leach pollutants that are stored on the site must be stored in a manner designed to minimize contact with stormwater. Materials that are not a source of potential contamination to stormwater or that are designed for exposure to stormwater are not required to be covered.

Hazardous materials including but not limited to pesticides, fertilizer, petroleum products, curing compounds and toxic waste must be properly stored and protected from stormwater exposure as recommended by the manufacturer in an access restricted area.

Solid waste must be stored, collected and disposed of in compliance with Minnesota Administrative Rules Chapter 7035.

Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. CH 7041.

Exterior vehicle or equipment washing on the project site shall be limited to a defined area of the site. No engine degreasing is allowed on site. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

The Contractor shall prepare and submit a SWPPP amendment detailing the location and BMPs proposed for storage of materials, solid waste, portable toilets, and exterior vehicle or equipment washing on the site. The SWPPP amendment shall include a spill prevention and response plan that is appropriate for the materials proposed to be on the site. The SWPPP amendment shall meet or exceed the minimum requirements of Section 12 of the Permit.

INSPECTION & MAINTENANCE

A trained person shall routinely inspect the entire construction site at the time interval indicated on this sheet of the SWPPP during active construction and within 24-hours after a rainfall event greater than 0.5 inches in 24 hours. Following an inspection that occurs within 24-hours after a rainfall event, the next inspection must be conducted at the time interval indicated in the Receiving Waters Table found on the SITE PLAN AND INFORMATION SHEET of the SWPPP.

All inspections and maintenance conducted during construction must be recorded on the day it is completed and must be retained with the SWPPP. Inspection report forms are available in the Project Specifications. Inspection report forms other than those provided shall be approved by the engineer.

The Contractor may request a change in inspection schedule for the following conditions:

a. Inspections of areas with permanent cover to be reduced to once per month,
b. Inspections of areas that have permanent cover and have had no construction activity for 12 months to be suspended until construction resumes,
c. Inspections of areas where construction is suspended due to frozen ground conditions, inspections to be suspended until the earlier of within 24 hours of runoff occurring, or upon resuming construction.

No change in inspection schedule shall occur until authorized by the Engineer.

Inspections must include:

1. All erosion prevention and sediment control BMPs and Pollution Prevention Management Measures to ensure integrity and effectiveness.
2. Surface waters, including drainage ditches and conveyance systems for evidence of erosion and sediment deposition.
3. Construction site vehicle exit locations, streets and curb and gutter systems within and adjacent to the project for sedimentation from erosion or tracked sediment from vehicles.
4. Infiltration areas to ensure that no sediment from ongoing construction activity is reaching the infiltration area and that equipment is not being driven across the infiltration area.

All non-functioning BMPs and those BMPs where sediment reaches one-half (1/2) of the depth of the BMP, or in the case of sediment basins one-half (1/2) of the storage volume, must be repaired, replaced, or supplemented by the end of the next business day after discovery, or as soon as field conditions allow.

Permittees must repair, replace or supplement all nonfunctional BMPs with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow.

Any sediment that escapes the site must be removed and the area stabilized within 7 calendar days of discovery unless precluded by legal, regulatory, or physical access in which case the work shall be completed within 7 calendar days of authorization. Paved surfaces such as streets shall have any escaped or tracked sediment removed by the end of the day that it is discovered. Sediment release, other than paved surfaces that can be cleaned up with street sweeping shall be reported immediately upon discovery to the Engineer.

PUBLIC WATER RESTRICTIONS:

For public waters that have been promulgated "work in water restrictions" during fish spawning time frames, all exposed soil areas that are within 200 feet of the water's edge, and drain to these waters must complete stabilization within 24-hours during the time period. MN DNR permits are not valid for work in waters that are designated as infested waters unless accompanied by an Infested Waters Permit or written notification has been obtained from MN DNR stating that such permit is not required. There is no exception for pre-existing permits. If a MN DNR Permit has been issued for the project and the water is later designated as infested, the Contractor shall halt all work covered by the MN DNR Permit until an Infested Waters Permit is obtained or that written notification is obtained stating that such permit is not required.

FINAL STABILIZATION

Final Stabilization is not complete until all the following requirements have been met:

1. Substantial Completion has been reached and no ground disturbing activities are anticipated.
2. Permanent cover has been installed with an established minimum uniform perennial vegetation density of 70 percent of its expected final growth. Vegetation is not required in areas where no vegetation is proposed by this project such as impervious surfaces or the base of a sand filter.
3. Accumulated sediment has been removed from all permanent stormwater treatment systems as necessary to ensure the system is operating as designed.
4. All sediment has been removed from conveyance systems
5. All temporary synthetic erosion prevention and sediment control BMPs have been removed. BMPs designated on the SWPPP to remain to decompose on-site may remain.
6. For residential construction only, permit coverage terminates on individual lots if the structures are finished and temporary erosion prevention and downgradient perimeter control is complete, the residence sells to the homeowner, and the permittee distributes the MPCA's "Homeowner Fact Sheet" to the homeowner.
7. For agricultural land only (e.g., pipelines across cropland), the disturbed land must be returned to its preconstruction agricultural use prior to submitting the NOT.

SITE STABILIZATION COMPLETION:

Stabilization of exposed soils shall begin immediately and shall be completed after the construction activity has temporarily or permanently ceased no later than:	7 calendar days

SITE INSPECTION INTERVAL:

A trained person shall routinely inspect the entire construction site during active construction at an interval of no more than:	7 calendar days

SPECIAL ENVIRONMENTAL CONSIDERATIONS AND PERMITS:

1)	Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
2)	Does any portion of the site have the potential to affect threatened or endangered species or their critical habitat?	NO
3)	Does any portion of this site discharge to a Calcareous fen.	NO
4)	Will any portion of the site potentially affect properties listed on the National Register of Historic Places or a known or discovered archeological site?	NO
5)	Have any Karst features have been identified in the project vicinity?	NO
6)	Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO
7)	Has the MN DNR promulgated "work in water restrictions" for any Public Water this site disharges to during fish spawning?	NO

TYPE OF PERMIT	PERMITTING AGENCY	PERMIT STATUS AND CONDITIONS
Construction Stormwater NPDES	MPCA	IN PROGRESS

SWPPP DESIGNER TRAINING DOCUMENTATION:

UNIVERSITY OF MINNESOTA

Katelyn E. Younger

Design of Construction SWPPP (May 31 2028)

CENTENNIAL OFFICE BUILDING

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SAINT PAUL, MN 55155

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www.bolton-menk.com

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 PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

RICHARD MARK OLDENBURG
Registration Number 28638 Date 10/08/2024

Revisions

Description	Date	Num

Comm: 232356
Date: 10/08/2024
Drawn: BMD
Check: BMK

North

STORMWATER POLLUTION PREVENTION PLAN: NARRATIVE

Scale: As Indicated

C4.03

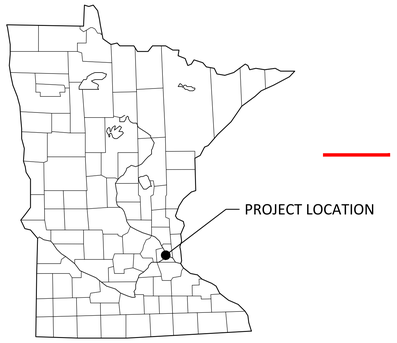
Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

CENTENNIAL OFFICE BUILDING - 2025

CITY OF ST. PAUL
RAMSEY COUNTY, MINNESOTA

MN



LEGEND

- 1-MILE BOUNDARY
- PROJECT BOUNDARY
- IMPAIRED, SPECIAL OR PROTECTED WATERS (OR)
- NATIONAL WETLANDS INVENTORY
- RECEIVING WATERS

RESPONSIBLE PARTIES:
The Contractor and Owner will be joint applicants under the MPCA's General Stormwater Permit for Construction Activity as required by the National Pollutant Discharge Elimination System (NPDES) Phase II program.

The Contractor shall provide one or more trained Construction SWPPP Manager(s) knowledgeable and experienced in the application of erosion prevention and sediment control BMPs that will oversee the implementation of the SWPPP, and the installation, inspection and maintenance of the erosion prevention and sediment control BMPs.

A Construction SWPPP Manager must be available for an on-site inspection within 72 hours upon request by the MPCA.

	COMPANY	CONTACT PERSON	PHONE
OWNER:	TBD	TBD	XXX-XXX-XXXX
SWPPP DESIGNER:	Bolton & Menk, Inc.	Katelyn Younger	651-506-7431
CONTRACTOR:	TBD	TBD	TBD
CONSTRUCTION SWPPP MANAGER:	TBD	TBD	TBD
PARTY RESPONSIBLE FOR LONG TERM O&M:	TBD	TBD	XXX-XXX-XXXX

The SWPPP Designer, Construction SWPPP Manager, and BMP Installer must have appropriate training. Documentation showing training commensurate with the job duties and responsibilities is required to be included in the SWPPP prior to any work beginning on the site. Training documentation for the SWPPP Designer is included on the Narrative sheet. The Contractor shall attach training documentation to this SWPPP for the Construction SWPPP Manager and BMP Installer prior to the start of construction. This information shall be kept up to date until the project NOT is filed.

ADDITIONAL COMPENSATION
Payment for all work associated with Erosion and Sediment Control shall be as described in the Project Manual. Unless otherwise authorized by the Owner no additional payment shall be made for any work required to administer and maintain the site erosion and sediment control in compliance with the Minnesota Pollution Control Agency (MPCA) - General Stormwater Permit for Construction Activity (MN R100001) including but not limited to inspection, maintenance, and removal of BMPs or addition of BMPs to accommodate Contractor phasing.

DOCUMENT RETENTION
Permittees must make the SWPPP, including all inspection reports, maintenance records, training records and other information required by this permit, available to federal, state, and local officials within three (3) days upon request for the duration of the permit and for three (3) years following the NOT.

GENERAL STORMWATER DISCHARGE REQUIREMENTS
All requirements listed in Section 5.1 of the Permit for the design of the permanent stormwater management system and discharge have been included in the preparation of this SWPPP. These include but are not limited to:

1. The expected amount, frequency, intensity, and duration of precipitation.
2. The nature of stormwater runoff and run-on at the site
3. Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
4. The range of soil particle sizes expected to be present on the site.

Permanent stormwater treatment systems for this project have been designed in accordance with the guidance in the MN Stormwater Manual in place at the time of bidding. Copies of the design information and calculations are part of this SWPPP and will be provided in digital format upon written request to the Engineer.

PROJECT AREAS:

Total Project Size (disturbed area) =	2.3	ACRES
Existing area of impervious surface =	2.3	ACRES
Post construction area of impervious surface =	0.0	ACRES
Total new impervious surface area created =	0.0	ACRES
Planned Construction Start Date:	XX/XX/XXXX	
Estimated Construction Completion Date:	XX/XX/XXXX	

PERMANENT STORMWATER MANAGEMENT SYSTEM:
Type of storm water management used if more than 1 acre of new impervious surface is created:

	Wet Sedimentation Basin
	Infiltration/Filtration
	Regional Pond
X	Permanent Stormwater Management Not Required

Permanent stormwater management not required as no new impervious surface is being created

PROJECT LOCATION:

COUNTY	TOWNSHIP	RANGE	SECTION	LATITUDE	LONGITUDE
Ramsey	T29N	R22W	31	44.9531°	-93.1001°

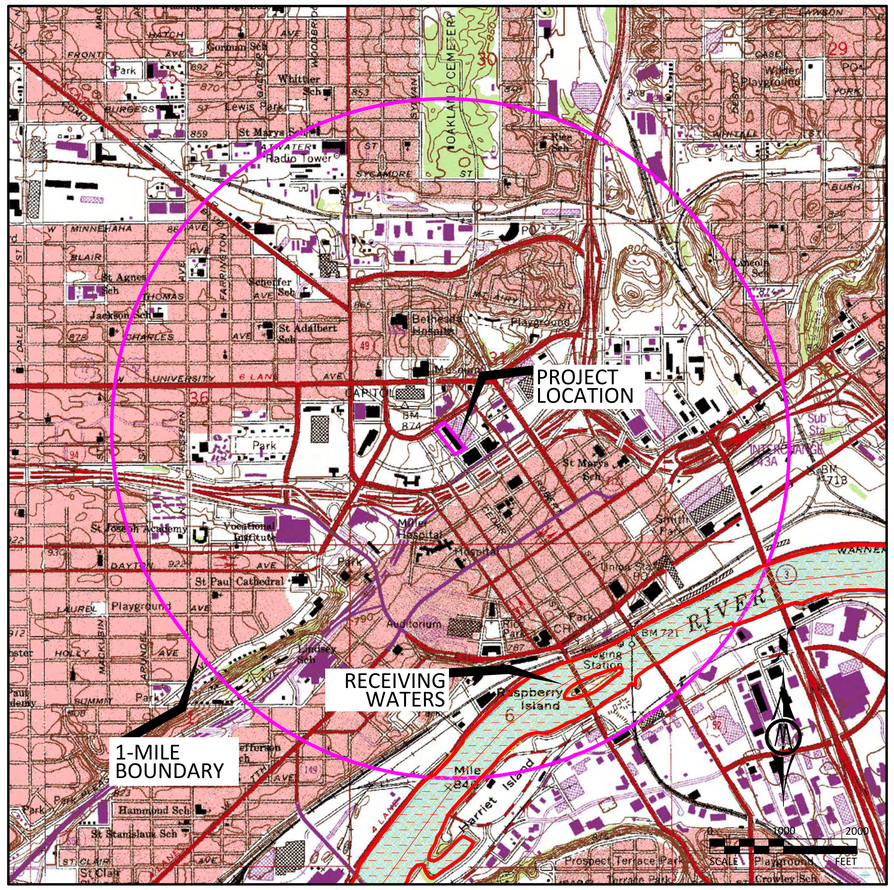
BMP SUMMARY	QUANTITY	UNIT

DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:
Construction activities include: Site grading, sanitary sewer and water main extensions, temporary erosion and sediment control, and permanent stabilization.

Stormwater currently flows to catch basins surrounding the site on Cedar St. The catch basins transport runoff through the storm sewer system which discharges into the Mississippi River southeast of the project location.

After construction is complete stormwater will infiltrate through the infiltration basin on the south end of the site. Any excess overflow will travel to the catch basins surrounding the site and will discharge into the Mississippi.

This project includes the following stormwater management BMPs during construction: silt fence, inlet protection device at storm sewer inlet, sediment control log, and construction entrance rock. The project will include a proposed infiltration basin that sheet flow will travel to.



RECEIVING WATERS:
Receiving waters, including surface water, wetlands, Public Waters, and stormwater ponds, within 1-mile of the project boundary are identified on the USGS 7.5 min quad map above. Receiving waters that are impaired, the impairment, and WLA are listed as follows. All specific BMPs relative to construction activities listed in the permit for special, prohibited, restricted, or impaired have been incorporated into this plan. All specific BMPs listed in approved TMDLs and those BMPs listed for construction related waste load allocations have also been incorporated.

NAME OF WATER BODY	TYPE (ditch, pond, wetland, lake, etc.)	Special, Prohibited, Restricted Water [1]	Flows to Impaired Water Within 1-Mile [2]	USEPA Approved Construction Related TMDL [3]
MISSISSIPPI RIVER	RIVER	NO	NO	Hg-F, Hg-W, Nutrients, TSS

[1] Special, prohibited, and restricted waters are listed in Section 23 of the MN Construction Stormwater General Permit (MNR100001).
[2] Identified as impaired under section 303 (d) of the federal Clean Water Act for phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota.
[3] Construction Related TMDLs include those related to: phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota.

IMPLEMENTATION SCHEDULE AND PHASING: The Contractor is required to provide an updated schedule and site management plan meeting the minimum requirements of Section 1717 of the Minnesota Standard Specifications for Construction.

1) Submit SWPPP Updates to Engineer. Submittal shall include any requested changes to the SWPPP, including but not limited to: Trained Personnel, Locations for Stockpiles, Concrete Washout, Sanitation Facilities, Types and Locations of Erosion & Sediment Control. Failure to submit updates shall be considered acceptance of the SWPPP as designed with no changes.
2) Install perimeter sediment control, inlet protection, and construction exit.
3) Demolish current building, sidewalk, and utilities relating to the building.
4) Maintain adjacent properties and public streets to keep clear of debris or sediment.
5) All disturbed areas that will not be paved are to be graded and then sodded.
6) Maintain dust control during grading.
7) Add additional temporary BMPs as necessary during construction based on inspection reports.
8) Ensure final stabilization measures are complete.
9) Provide digital copy of all Field SWPPP Documentation including Inspection Reports and SWPPP Revisions to the Owner.
10) Submit Notice of Termination (NOT) to MPCA. NOTE: The NOT must be submitted to MPCA before Final Stabilization is considered complete.

C

CENTENNIAL OFFICE BUILDING

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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 PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

RICHARD A. DEDEIN
Registration Number 39678 Date 10/08/2024

Revisions

Description	Date	Num

Comm: 232356
Date: 10/08/2024
Drawn: [redacted]
Check: [redacted]

North

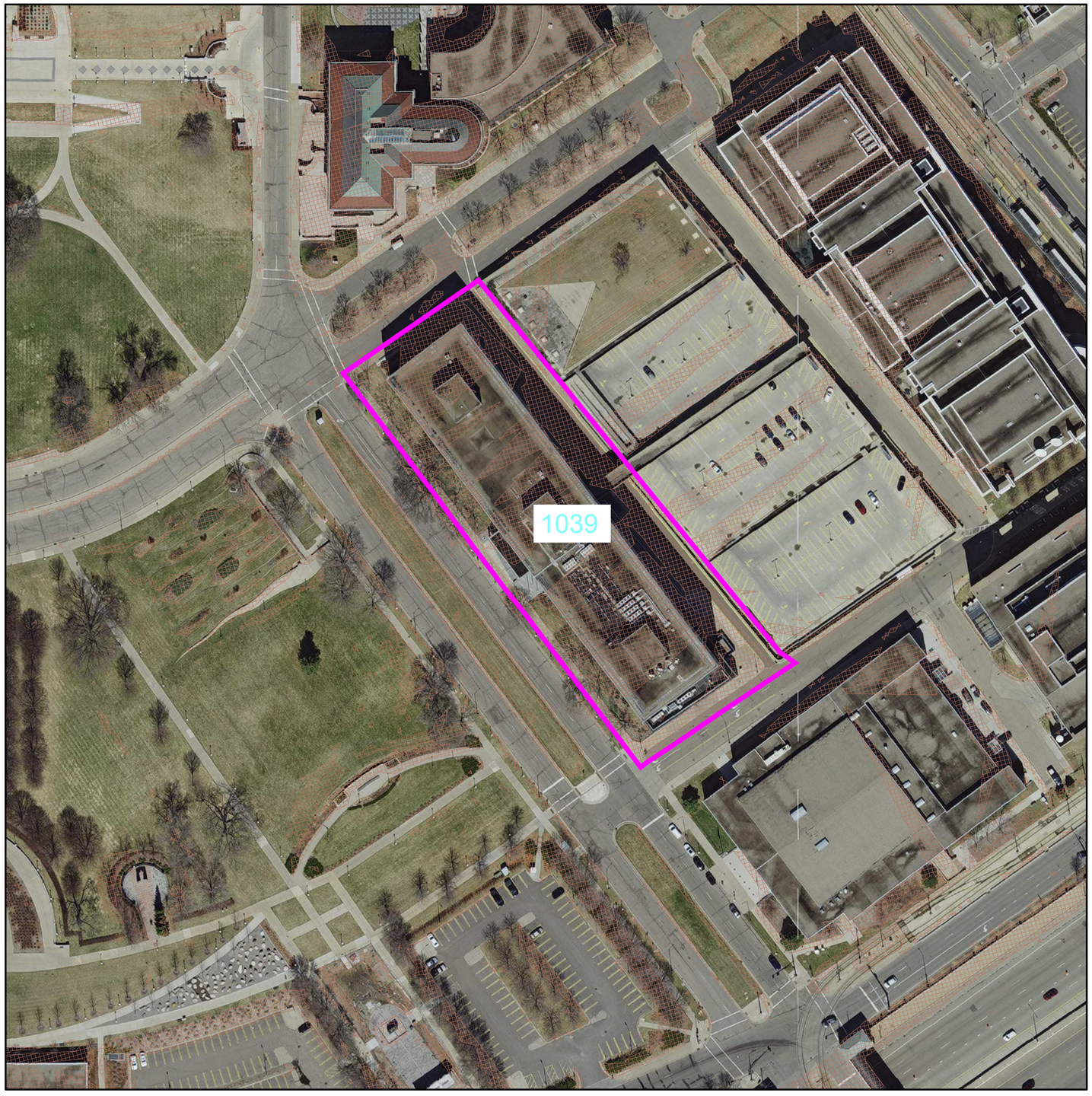
STORMWATER POLLUTION PREVENTION PLAN: PROJECT INFORMATION

Scale: As Indicated

C4.02

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

MN



C

LEGEND

- PROJECT BOUNDARY
- SOIL TYPE
- STEEP SLOPES (>33.3%)

0 50 100
SCALE FEET

SOIL TYPE SUMMARY

Map Unit Symbol	Soil Name	Erodibility
MUSYM	MUNAME	MUHELCL
1039	URBAN LAND	NHEL

NHEL - Not Highly Erodible Land

CENTENNIAL OFFICE BUILDING

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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 PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

RICHARD K. DEDEIN
Registration Number 38638 Date 10/08/2024

Revisions

Description	Date	Num

Comm: 232356
Date: 10/08/2024
Drawn: BLB
Check: RKD

North

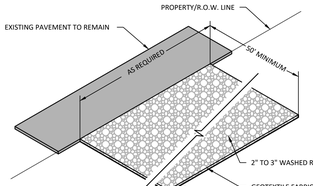
STORMWATER POLLUTION PREVENTION PLAN: SOILS MAP

Scale: As Indicated

C4.03

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

MN

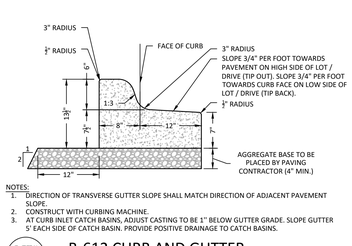


NOTE:
PROVIDE WHERE CONSTRUCTION TRAFFIC ENTERS OR EXITS THE CONSTRUCTION SITE

DET# / SHT# — ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE

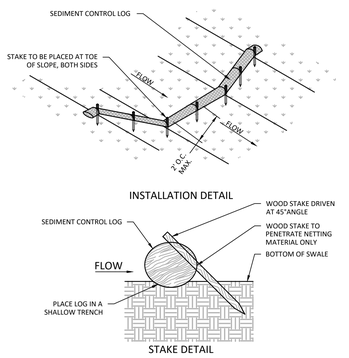
	POSTS: (IF USED WITHOUT SUPPORT FENCE)	WOOD	METAL
NORMAL USE		2" SQ. (MIN) @ 4' (MAX) SPACING	0.95 lbs/lf (MIN.) @ 6' (MAX) SPACING



NOTE:
DEPENDING UPON CONFIGURATION, ATTACH TO WIRE MESH WITH HOG RINGS, STEEL POSTS WITH TIE WIRES, OR WOOD POSTS WITH STAPLES

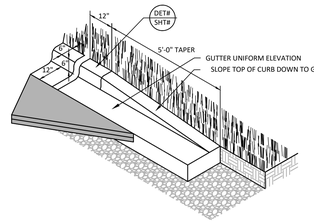
DET# / SHT# — SILT FENCE

NOT TO SCALE



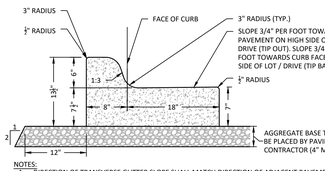
DET# / SHT# — SEDIMENT CONTROL LOG

NOT TO SCALE



DET# / SHT# — B-612 CURB TERMINATOR

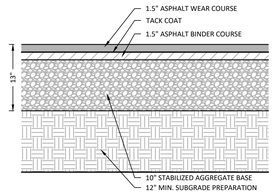
NOT TO SCALE



NOTES:
1. DIRECTION OF TRANSVERSE GUTTER SLOPE SHALL MATCH DIRECTION OF ADJACENT PAVEMENT SLOPE.
2. CONSTRUCT WITH CURBING MACHINE.
3. AT CURB INLET CATCH BASINS, ADJUST CASTING TO BE 1" BELOW GUTTER GRADE. SLOPE GUTTER 5' EACH SIDE OF CATCH BASIN. PROVIDE POSITIVE DRAINAGE TO CATCH BASINS.

DET# / SHT# — B-618 CURB AND GUTTER

NOT TO SCALE



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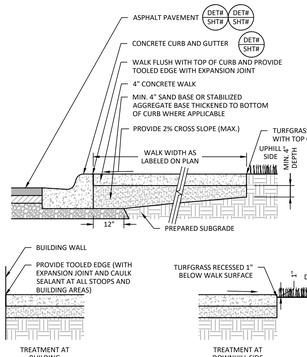
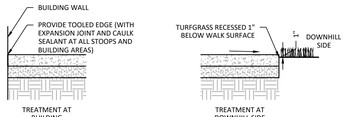
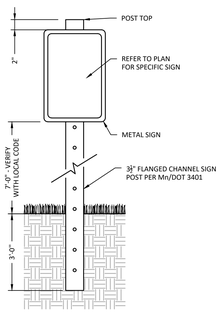
NOT TO SCALE





DET# / SHT# — CONCRETE WALK

NOT TO SCALE



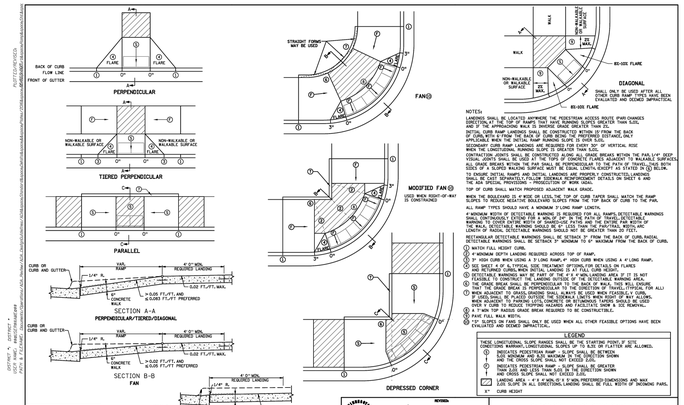
DET# / SHT# — TRAFFIC SIGN AND POST IN GRASS

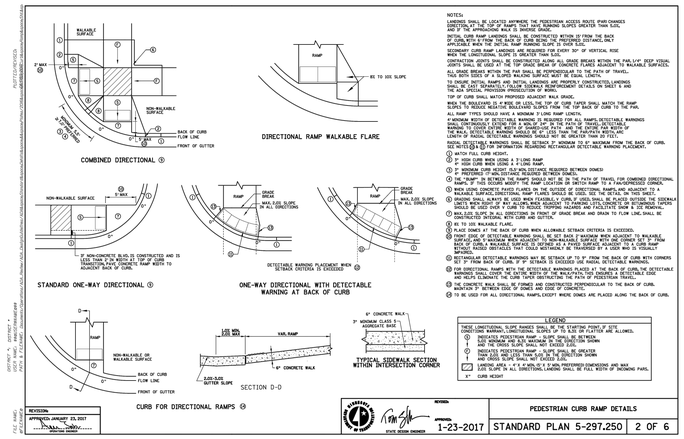
NOT TO SCALE

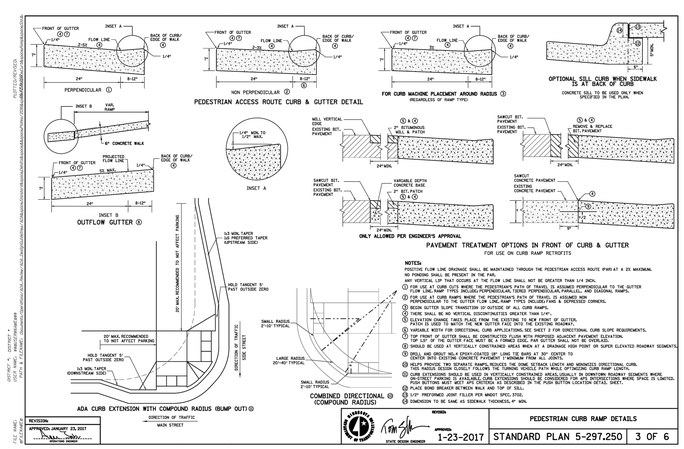
NOTES:
1. DIRECTION OF TRANSVERSE GUTTER SLOPE SHALL MATCH DIRECTION OF ADJACENT PAVEMENT SLOPE.
2. CONSTRUCT WITH CURBING MACHINE.
3. AT CURB INLET CATCH BASINS, ADJUST CASTING TO BE 1" BELOW GUTTER GRADE. SLOPE GUTTER 5' EACH SIDE OF CATCH BASIN. PROVIDE POSITIVE DRAINAGE TO CATCH BASINS.

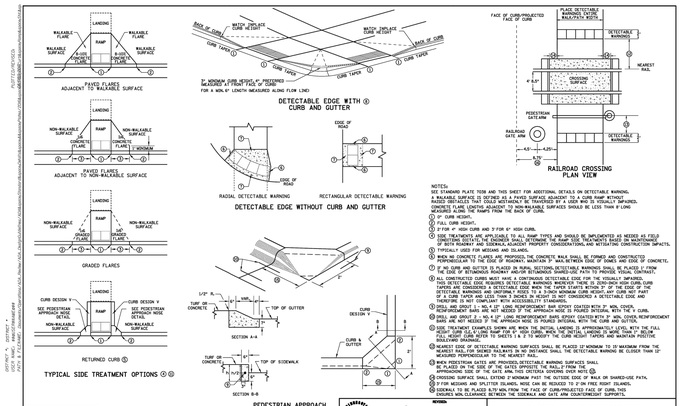
DET# / SHT# — B-612 CURB AND GUTTER

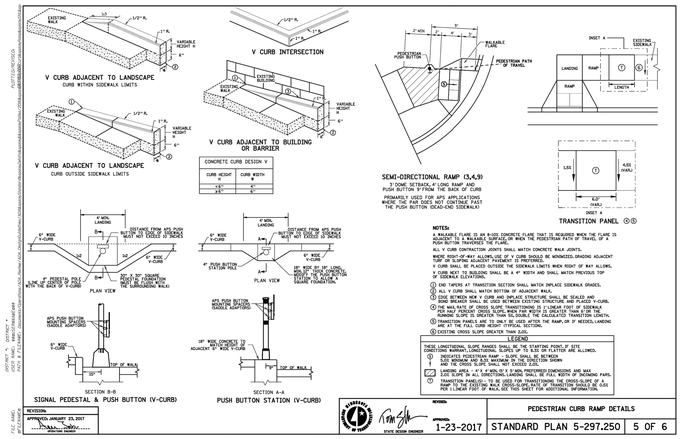
NOT TO SCALE

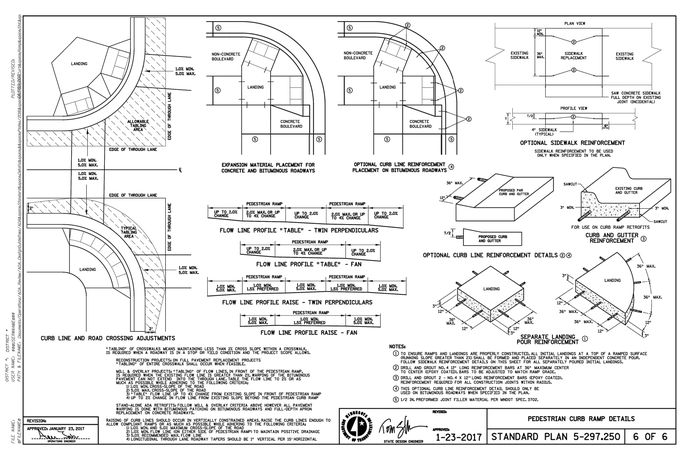












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under the laws of the State of **MINNESOTA**

RICHARD KOECHLEIN
Registration Number **26678** Date **10/08/2024**

Revisions		
Description	Date	Num

Comm: **232356**
Date: **10/08/2024**
Drawn: **CDL**
Check: **RWK**

North

DETAILS

Scale: **As Indicated**

C5.01

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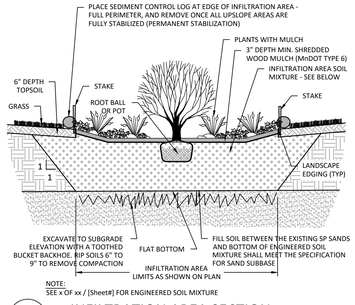
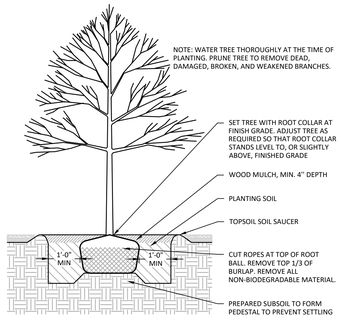


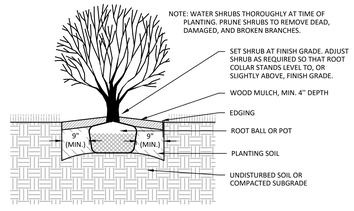
DET# / SHT# INFILTRATION AREA SECTION

NOT TO SCALE



DET# / SHT# DECIDUOUS TREE

NOT TO SCALE



DET# / SHT# SHRUB

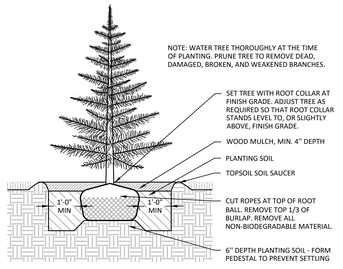
NOT TO SCALE

INFILTRATION AREA CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

1. INFILTRATION AREA LIMITS SHALL BE SURVEYED AND A VISUAL BARRIER, SUCH AS ORANGE SNOW FENCE, SHALL BE PLACED AROUND THE FULL PERIMETER TO KEEP ALL CONSTRUCTION TRAFFIC, EQUIPMENT AND MATERIAL STOCKPILES OUT OF THE PROPOSED INFILTRATION AREAS. THE VISUAL BARRIER MUST BE INSTALLED BEFORE NEW CONSTRUCTION BEGINS AND SHALL BE MAINTAINED THROUGH THE DURATION OF THE PROJECT.
2. DELIVER SAMPLE MATERIALS ONSITE FOR PRIOR APPROVAL. PRIOR TO BEGINNING THE INSTALLATION, SUFFICIENT MATERIAL QUANTITIES SHALL BE ONSITE TO COMPLETE THE INSTALLATION. STABILIZE EXPOSED SOIL AREAS WITHOUT DELAY.
3. CARE MUST BE TAKEN TO AVOID CONTAMINATION OF ENGINEERED SOILS WITH SEDIMENT, IN-SITU OR TOPSOIL DURING AND AFTER INSTALLATION. MATERIALS MUST BE SEGREGATED.
4. INSTALLATION WITH DRY SOIL CONDITIONS IS CRITICAL TO PREVENT SMEARING AND COMPACTION. SCHEDULE WORK FOR PERIODS OF DRY WEATHER. DO NOT WORK IF SOIL CONDITIONS ARE WET. EXCAVATION, SOIL PLACEMENT AND RAPID STABILIZATION OF PERIMETER SLOPES WITH TURF SOD MUST COMPLETED BEFORE THE NEXT PRECIPITATION EVENT. TURF SOD PLACED IN FLOW PATHS SHALL BE SECURED WITH AT LEAST 6 STAKES PER SQUARE YARD. PLACE STAKES ALONG UPHILL SEAM EDGES TO PREVENT UNDERMINING FLOWS UNTIL SOD ROOTS ESTABLISH.
5. DO NOT LEAVE STORMWATER AREAS AND / OR PERIMETER SLOPES EXPOSED OVERNIGHT. SECURE THE SITE FROM RISK OF PRECIPITATION DAMAGES AT THE END OF EVERY WORK DAY. IN THE EVENT OF RAIN, TAKE ACTION TO DIVERT STORMWATER AWAY FROM THE WORK AREA AND TEMPORARILY COVER OF ALL EXPOSED SOILS WITH WOVEN GEOTEXTILE FABRIC OR IMPERMEABLE SHEETING.
6. FIELD OBSERVATION OF EXCAVATION AND SOIL PLACEMENT IS REQUIRED. NOTIFY GEOTECHNICAL ENGINEER PRIOR TO DIGGING. USE BACKHOE WITH TOOTH BUCKET FOR CELL EXCAVATION TO AVOID COMPACTING OR SMEARING OF SOILS. DO NOT USE SKID STEER FOR EXCAVATION WITHIN THE CELL. USE TOOTH BUCKET TO SCARIFY (RIP) UNDERLYING SOILS 6" TO 9" DEEP TO REMOVE COMPACTION. GENTLY MIX THE FIRST LIFT OF ENGINEERED SOILS WITH THE LOOSENED UNDERLYING SOILS TO AVOID STRATIFICATION AND PROMOTE PERMEABILITY. USE EXCAVATOR BUCKET TO PLACE MATERIALS. CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED INTO THE STORMWATER AREAS. LEVELING AND FINAL GRADING WITHIN THE CELL MUST BE COMPLETED BY HAND.
7. INFILTRATION AREA SOIL MIX SHALL BE MINNESOTA STORMWATER MANUAL 4.1.2 MIX B: ENHANCED FILTRATION BLEND (WELL BLENDED MIXTURE OF 75% - 85% ASTM C-33 COARSE WASHED SAND (MN/DOT 3126) AND 25% - 15% MN/DOT 3890 GRADE 2 LEAF LITTER COMPOST). THE MATERIAL SUPPLIER SHALL PROVIDE DOCUMENTATION THAT THE COMPOST HAS BEEN SAMPLED AND TESTED AS REQUIRED BY THE SEAL OF TESTING ASSURANCE (STA) PROGRAM OF THE UNITED STATES COMPOSTING COUNCIL (USCC) AND A GRADATION SIEVE ANALYSIS FOR THE WASHED SAND. THE ENGINEERED SOIL SHALL NOT CONTAIN ANY TOPSOIL OR FILTER AGGREGATE WITH FINES.
8. INSTALL PLANTINGS BY HAND.
9. INSTALLED SOD AND PLANTINGS REQUIRE A TOTAL OF 1" OF WATER PER WEEK AND ACTIVE WEED MANAGEMENT UNTIL WELL ESTABLISHED. INCLUDE ALL WATERING COSTS IN THE BID. CONSTRUCT A TEMPORARY IRRIGATION SYSTEM, CONSISTING OF ABOVE GROUND HEADS, PIPING, VALVES, ETC., FOR WATERING UNTIL VEGETATION IS ESTABLISHED. DO NOT USE A WATER TRUCK AS THE FORCE OF THE WATER WILL ADVERSELY AFFECT THE STORMWATER AREA SOILS.
10. REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS SHALL BE DONE BY HAND OR, IF SELF-PROPELLED EQUIPMENT IS REQUIRED, FROM OUTSIDE THE PERIMETER OF THE INFILTRATION AREAS.

DET# / SHT# INFILTRATION AREA NOTES

NOT TO SCALE



DET# / SHT# CONIFEROUS TREE

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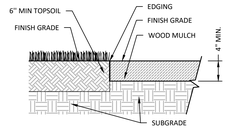
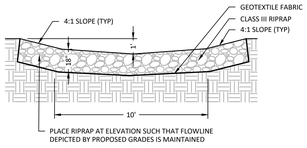


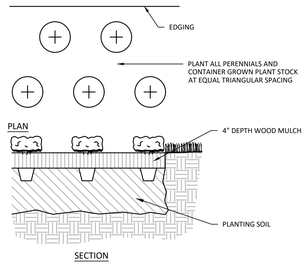
DET# / SHT# WOOD MULCH BED

NOT TO SCALE



DET# / SHT# OVERFLOW SWALE

NOT TO SCALE



DET# / SHT# PERENNIALS AND CONTAINER GROWN PLANT STOCK

NOT TO SCALE

CENTENNIAL OFFICE BUILDING

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RICHARD KOECHLEIN
Registration Number **26678** Date **10/08/2024**

Revisions		
Description	Date	Num

Comm: **232356**
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DETAILS

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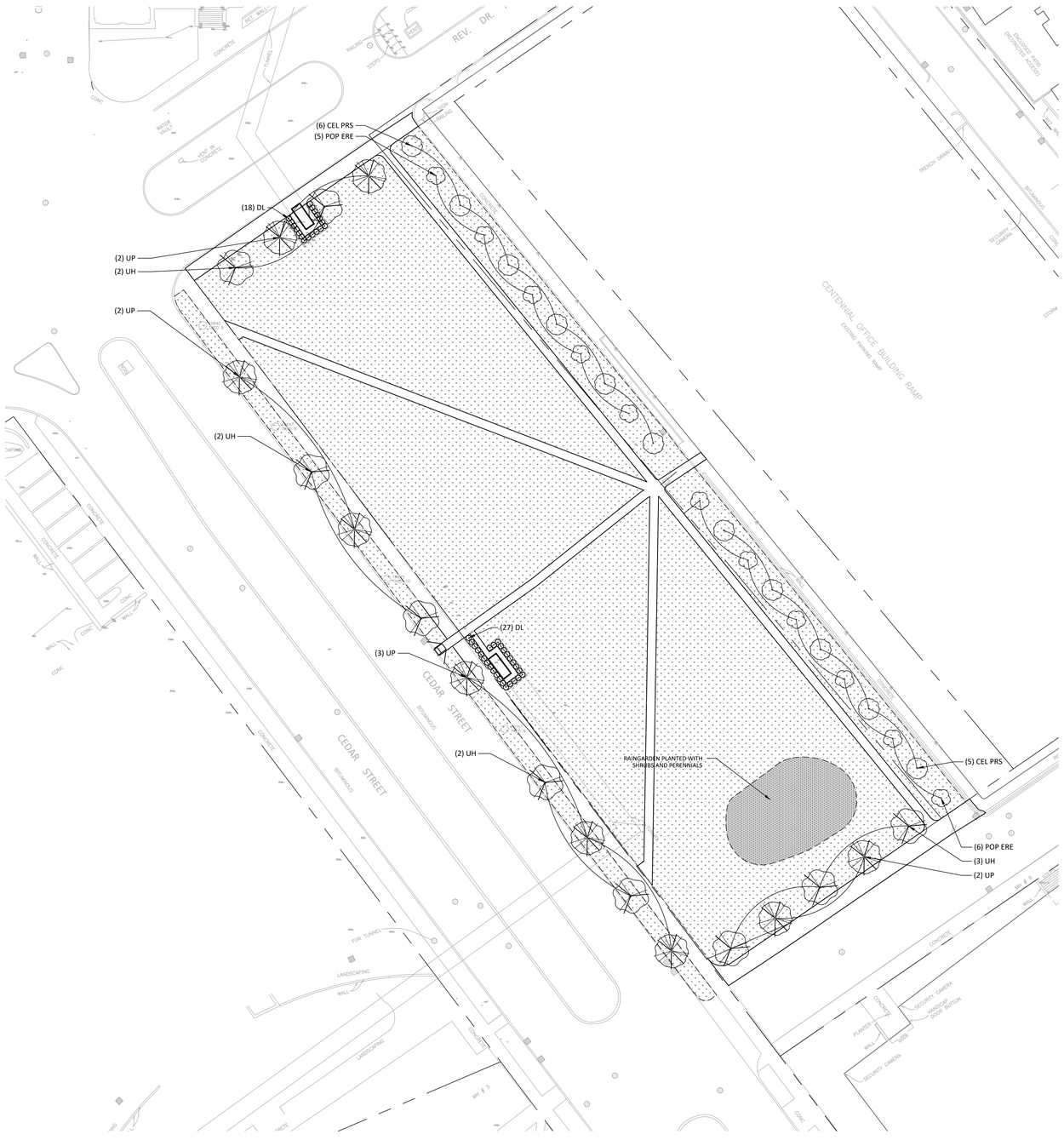

NOTES

1. REFER TO SHEET CXXX, XXXXXXX, FOR GENERAL NOTES.
2. REFER TO SWPPP NARRATIVE, SHEET XXX, FOR CONSTRUCTION SEQUENCING AND EROSION CONTROL REQUIREMENTS.
3. LANDSCAPE ARCHITECT MUST INSPECT AND APPROVE FINE GRADING BEFORE CONTRACTOR PROCEEDS WITH SODDING OR SEEDING.
4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD, WHICH ARE NOT DESIGNATED TO BE PAVED OR RECEIVE AGLIME, SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED OR SEEDED. ALL AREAS NOT DESIGNATED FOR SOD OR A SPECIFIC SEED MIX, WHICH ARE DISTURBED BY CONSTRUCTION, SHALL BE SEEDED WITH SEED MIX #1.
5. WHERE NEW SOD MEETS EXISTING SOD, CUT A CLEAN, SHARP EDGE TO ALLOW FOR A CONSISTENT, UNIFORM, AND STRAIGHT JOINT BETWEEN NEW SOD AND EXISTING TURFGRASS. JAGGED OR UNEVEN JOINTS WILL NOT BE ACCEPTED. REMOVE TOPSOIL AT THE JOINT BETWEEN NEW SOD AND EXISTING TURFGRASS, AS REQUIRED, TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING TURFGRASS SURFACE.
6. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, RE-SOD OR RE-SEED ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER OR LANDSCAPE ARCHITECT.
7. BEGIN TURF ESTABLISHMENT IMMEDIATELY AFTER SODDING OR SEEDING. REFER TO SPECIFICATION FOR PROCEDURE.
8. ALL TREES SHALL BE BALLED AND BURLAPPED.
9. ALL TREES AND SHRUBS SHALL RECEIVE 4" DEPTH OF WOOD MULCH, UNLESS OTHERWISE SPECIFIED.
10. ALL PLANT MATERIALS SHALL BE NO. 1 QUALITY, NURSERY GROWN AND SPECIMENS MUST BE MATCHED.
11. ALL DECIDUOUS TREES ALONG DRIVES OR WITHIN PARKING LOTS SHALL BEGIN BRANCHING NO LOWER THAN 6'.

LEGEND

X / X	REFERENCE KEY TO SITE DETAILS DETAIL I.D. NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)
	PROPOSED SOD LIMITS
	PROPOSED SHRUB / MULCH BED
	PROPOSED LIGHT POLE - REFER TO ELECTRICAL PLANS
	PROPERTY LINE

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	CONTAINER
TREES						
	CEL PRS	11	CELTIS OCCIDENTALIS 'JFS-KSU1'	PRAIRIE SENTINEL® HACKBERRY	2.5" CAL.	B&B
	POP ERE	11	POPULUS TREMULA 'ERECTA'	EUROPEAN COLUMNAR ASPEN	2.5" CAL.	B&B
	UP	8	ULMUS X 'MORTON GLOSSY'	TRIUMPH™ ELM	2" CAL.	B&B
	UH	9	ULMUS X 'PATRIOT'	PATRIOT ELM	2" CAL.	B&B

HORZ. 0 30 60
SCALE FEET

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RICHARD KOECHLEIN
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LANDSCAPE PLAN

Scale: **As Indicated**

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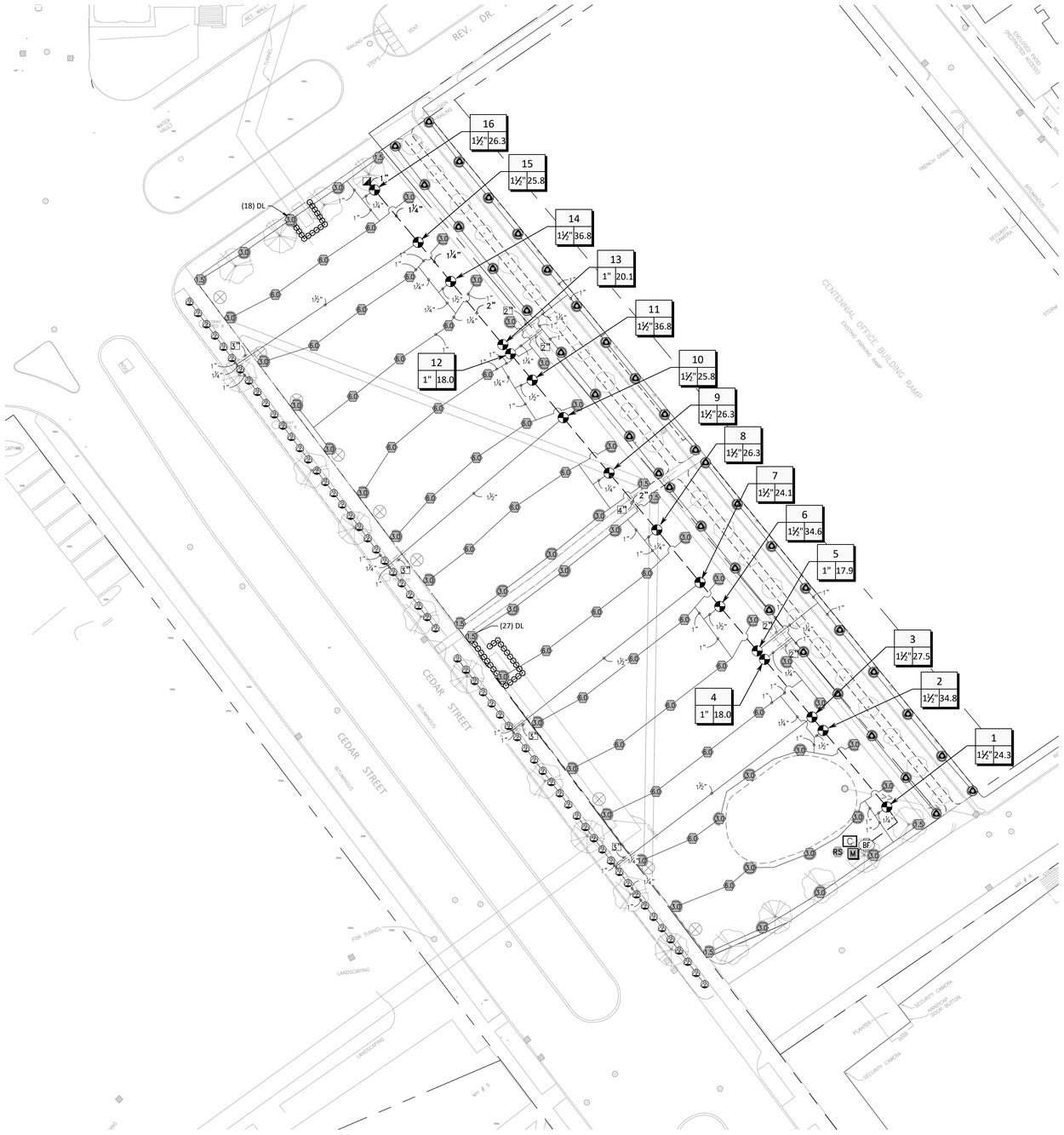

NOTES

1. REFER TO SHEET CXXX, XXXXXXX, FOR GENERAL NOTES.
2. FIELD VERIFY SITE CONDITIONS AND LOCATE UNDERGROUND UTILITIES PRIOR TO TRENCHING.
3. VERIFY THE LOCATION AND DEPTH OF UNDERGROUND ELECTRIC LINES, FIBER LINES, AND OTHER COMMUNICATION LINES PRIOR TO IRRIGATION INSTALLATION.
4. LAY OUT WORK IN GENERAL CONFORMANCE WITH THE DRAWINGS. ADJUST NOZZLES, SPRINKLER ARCS, OR HEAD AND PIPE LOCATIONS TO COMPLEMENT ACTUAL FIELD CONDITIONS. MAINTAIN HEAD-TO-HEAD COVERAGE. BALANCE THE PRECIPITATION RATE AMONG ALL SPRINKLERS WITHIN THE ZONE. ADD SUPPLEMENTAL SPRINKLERS AS NECESSARY TO PROVIDE HEAD-TO-HEAD COVERAGE.
5. PROVIDE ALL MISCELLANEOUS MATERIALS NECESSARY TO MAKE THE SYSTEM FULLY FUNCTIONAL.
6. IRRIGATION SYSTEM IS DESIGNED FOR 60(+/-) PSI AT THE BASE OF ALL SPRINKLER HEADS. WATER PRESSURE AT THE WATER SUPPLY HAS BEEN ASSUMED TO BE +/-70 PSI. NOTIFY LANDSCAPE ARCHITECT IF WATER SUPPLY PRESSURE DIFFERS.
7. WATER SUPPLY IS LOCATED AT THE PROPOSED 3" CAPPED FLANGE INSIDE THE MECHANICAL ROOM.
8. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR PRODUCT SPECIFIC INSTALLATION.
9. MAIN LINE PIPING SHALL BE PVC CLASS 200 SDR 21.
10. LATERAL PIPING SHALL BE PVC CLASS 160 SDR 26.
11. LATERAL PIPING WITH NO SIZE LABEL INDICATED ON THE DRAWINGS SHALL BE 1", PVC CLASS 160 SDR 26.
12. INSTALL LATERAL PIPING A MINIMUM 12 INCHES DEEP AND INSTALL MAIN LINE PIPING A MINIMUM 18 INCHES DEEP. NOTIFY LANDSCAPE ARCHITECT A MINIMUM 48 HOURS IN ADVANCE OF PIPING INSTALLATION.
13. USE TEFLON TAPE ON ALL THREADED JOINTS.
14. SET SPRINKLER HEADS, QUICK COUPLER VALVES, AND OTHER VALVES WITH STEMS PERPENDICULAR TO FINISHED GRADE.
15. PLACE ALL VALVES IN SERVICE BOXES.
16. ADJUST SPRINKLER HEADS FOR GRADE, AS NECESSARY, AFTER TURFGRASS HAS BEEN ESTABLISHED AND ALL SETTLEMENT AT SPRINKLER HEADS HAS OCCURRED. SET TOP OF SPRINKLER HEAD ½" BELOW FINISH GRADE OR ½" BELOW THE TURFGRASS ROOT ZONE. SET TOP OF SPRINKLER HEAD 1" BELOW CONCRETE SURFACES WHEN ADJACENT TO CONCRETE WALKS OR CONCRETE CURBS.
17. MAIN LINE PIPING 3" AND LARGER SHALL HAVE THRUST BLOCKING AT ALL ELL'S, TEE'S, AND WYE'S.
18. MAIN LINE PIPING 4" AND LARGER SHALL USE JOINT RESTRAINTS.
19. CONDUCT PERFORMANCE TEST IN THE PRESENCE OF OWNER AND LANDSCAPE ARCHITECT FOLLOWING COMPLETION OF SYSTEM INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
20. CONDUCT AND DEMONSTRATE TO THE OWNER THE WINTERIZATION AND SPRING START-UP PROCESS IN THE FALL FOLLOWING IRRIGATION SYSTEM COMPLETION.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
EST CST SST	HUNTER PROS-04-PRS30 STRIP SERIES TURF SPRAY, 30 PSI REGULATED 4IN. POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	60	30		
2000	HUNTER MP2000 PROS-04-PRS30-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	2,380	30		
3500	HUNTER MP3500 PROS-04-PRS30-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. LB=LIGHT BROWN ADJUSTABLE ARC, 90-210.	38	30		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
1.5	HUNTER I-20-06 1.5 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	8	25	1.2	26'
3.0	HUNTER I-20-06 3.0 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	45	25	2.2	32'
6.0	HUNTER I-20-06 6.0 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	2,223	25	4.3	34'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	TORO P220-27-0 GLOBE 1-1/2" ELECTRIC, 1IN., 1-1/2IN., 2IN. AND 3IN. PLASTIC IN-LINE REMOTE CONTROL VALVE. EQUIPPED TO WITHSTAND PRESSURE UP TO . FILTER SCREEN ON 2IN. AND 3IN. MODELS. STANDARD SOLENOID. GLOBE BODY STYLE. WITH EZ REG PRESSURE REGULATOR.	12			
	TORO P220-27-0 GLOBE 1" ELECTRIC, 1IN., 1-1/2IN., 2IN. AND 3IN. PLASTIC IN-LINE REMOTE CONTROL VALVE. EQUIPPED TO WITHSTAND PRESSURE UP TO . FILTER SCREEN ON 2IN. AND 3IN. MODELS. STANDARD SOLENOID. GLOBE BODY STYLE. WITH EZ REG PRESSURE REGULATOR.	4			
	TORO 075-SLSC 3/4" ONE-PIECE, 3/4IN. SINGLE LUG, QUICK COUPLER VALVE WITH STANDARD METAL COVER.	1			
BF	ZURN 375 2" REDUCED PRESSURE PRINCIPLE ASSEMBLY. SIZES 1/2IN.,3/4IN., 1IN., 1-1/4IN., 1-1/2IN., 2IN..	1			
M	WATER METER 2"	1			
	IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26 1"	3,919 LF			
	IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26 1 1/4"	288.7 LF			
	IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26 1 1/2"	575.3 LF			
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1"	6.7 LF			
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1 1/4"	68.4 LF			
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	434.3 LF			
	PIPE SLEEVE: PVC CLASS 200 2" TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	35.9 LF			
	PIPE SLEEVE: PVC CLASS 200 3" TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	47.3 LF			
	PIPE SLEEVE: PVC CLASS 200 4" TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	8.3 LF			

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	TORO P220-27-0 GLOBE	1-1/2"	TURF ROTOR	24.3	28.4		0.44 in/h
2	TORO P220-27-0 GLOBE	1-1/2"	TURF ROTOR	34.8	28.8		0.39 in/h
3	TORO P220-27-0 GLOBE	1-1/2"	TURF SPRAY	27.52	34.5		2.37 in/h
4	TORO P220-27-0 GLOBE	1"	TURF ROTARY	18.02	34.3		0.25 in/h
5	TORO P220-27-0 GLOBE	1"	TURF ROTARY	17.9	34.7		0.25 in/h
6	TORO P220-27-0 GLOBE	1-1/2"	TURF ROTOR	34.6	29.3		0.36 in/h
7	TORO P220-27-0 GLOBE	1-1/2"	TURF SPRAY	24.08	33.5		2.34 in/h
8	TORO P220-27-0 GLOBE	1-1/2"	TURF ROTOR	26.3	28.6		0.43 in/h
9	TORO P220-27-0 GLOBE	1-1/2"	TURF ROTOR	26.3	28.5		0.43 in/h
10	TORO P220-27-0 GLOBE	1-1/2"	TURF SPRAY	25.8	34.0		2.37 in/h
11	TORO P220-27-0 GLOBE	1-1/2"	TURF ROTOR	36.8	29.2		0.37 in/h
12	TORO P220-27-0 GLOBE	1"	TURF ROTARY	18.02	34.4		0.26 in/h
13	TORO P220-27-0 GLOBE	1"	TURF ROTARY	20.15	34.6		0.28 in/h
14	TORO P220-27-0 GLOBE	1-1/2"	TURF ROTOR	36.8	28.9		0.37 in/h
15	TORO P220-27-0 GLOBE	1-1/2"	TURF SPRAY	25.8	33.9		2.37 in/h
16	TORO P220-27-0 GLOBE	1-1/2"	TURF ROTOR	26.3	28.4		0.45 in/h

C

HORZ. SCALE 0 30 60 FEET

CENTENNIAL OFFICE BUILDING

658 CEDAR STREET
SAINT PAUL, MN 55155

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Email: plymouth@bolton-menk.com
www.bolton-menk.com

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
PROFESSIONAL ENGINEER
under the laws of the State of **MINNESOTA**

WILLIAM J. DIEDE
Registration Number **59532** Date **10/08/2024**

Revisions		
Description	Date	Num

Comm: **232356**
Date: **10/08/2024**
Drawn: **WJD**
Check: **DAR**
North

IRRIGATION PLAN

Scale: **As Indicated**

I1.01

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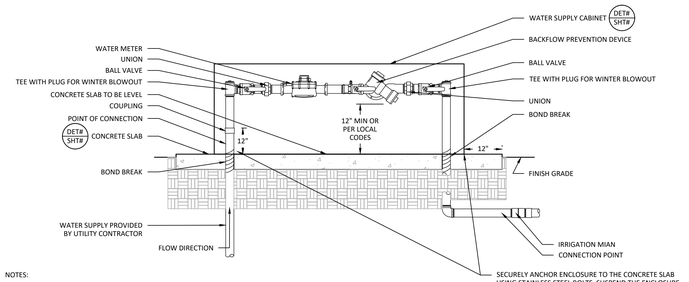
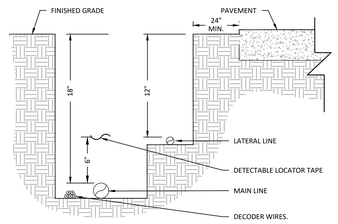


NOTES:

1. WORK FROM WATER SUPPLY TO IRRIGATION MAIN CONNECTION POINT SHALL BE INSTALLED BY A LICENSED PLUMBER.
2. ALL THREADED CONNECTIONS SHALL BE MADE USING PIPE THREAD SEALANT. ALL SCH. 80 PVC TO COPPER CONNECTIONS SHALL BE MADE USING TEFLON TAPE.

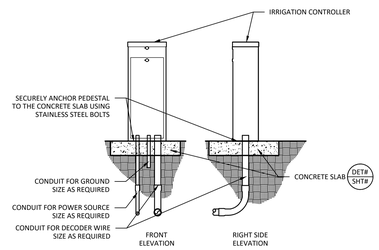
DET# SHT# WATER SUPPLY CABINET PLUMBING

NOT TO SCALE



DET# SHT# IRRIGATION INSTALLATION IN LANDSCAPE AREAS

NOT TO SCALE

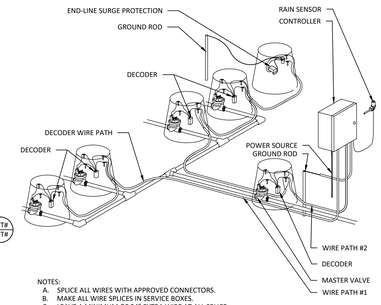


NOTES:

1. POWER SHALL BE INSTALLED BY A LICENSED ELECTRICIAN.
2. CONDUIT SHALL BE INSTALLED BY IRRIGATION CONTRACTOR.
3. COORDINATE CONDUIT WITH ELECTRICIAN.

DET# SHT# PEDESTAL-MOUNTED CONTROLLER

NOT TO SCALE

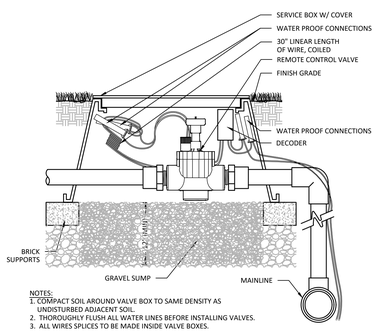


NOTES:

A. SPLICE ALL WIRES WITH APPROVED CONNECTORS.
B. MAKE ALL WIRE SPLICES IN SERVICE BOXES.
C. LEAVE A MINIMUM OF 24" EXTRA WIRE AT ALL SPLICE POINTS.
D. MAXIMUM DISTANCE FROM DECODER TO VALVE = 150 FT.
E. MAXIMUM WIRE LENGTH = 10,000 FT.

DET# SHT# TWO-WIRE PATHS EXAMPLE

NOT TO SCALE

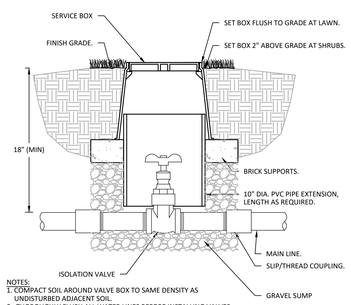


NOTES:

1. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
2. THOROUGHLY FLUSH ALL WATER LINES BEFORE INSTALLING VALVES.
3. ALL WIRES SPLICES TO BE MADE INSIDE VALVE BOXES.

DET# SHT# REMOTE CONTROL VALVE W/ DECODER

NOT TO SCALE

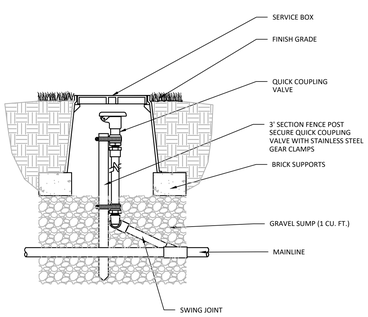


NOTES:

1. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
2. THOROUGHLY FLUSH ALL WATER LINES BEFORE INSTALLING VALVES.
3. ALL WIRES SPLICES TO BE MADE INSIDE VALVE BOXES.

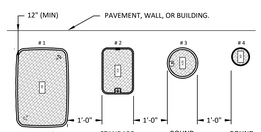
DET# SHT# ISOLATION VALVE

NOT TO SCALE



DET# SHT# QUICK COUPLER VALVE

NOT TO SCALE



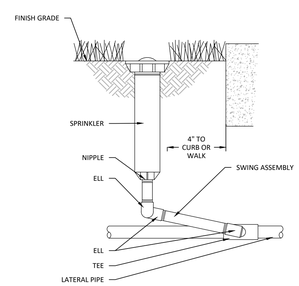
DESIGNATION	BOX SIZE	Identification Guide
MV	#2	MASTER VALVE
FS	#2	FLOW SENSOR
IV	#2	ISOLATION VALVE
ARV	#4	DRIP AIR RELEASE VALVE
DFV	#3	DRIP FLUSH VALVE
QCV	#3	QUICK COUPLER VALVE
RCV	#2	REMOTE CONTROL VALVE
MS	#2	MOISTURE SENSOR
SP	#4	SURGE PROTECTION
SB	#3	SPLICE BOX
FC	#3	FUTURE CONNECTION
DZV	#1	DRIP ZONE VALVE KIT
MCV	#1	MULTIPLE CONTROL VALVES

NOTES:

1. PROVIDE 12" GRAVEL SUMP FOR UNDER ALL SERVICE BOXES.
2. PROVIDE 4 BRICK SUPPORTS FOR #1 AND #2 SERVICE BOXES AND 2 BRICK SUPPORTS FOR #3 AND #4 SERVICE BOXES.
3. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
4. THOROUGHLY FLUSH ALL WATER LINES BEFORE INSTALLING VALVES.
5. LOCATE SERVICE BOXES ASSEMBLIES IN PLANTING AREA WHEN POSSIBLE.
6. ALL WIRES SPLICES TO BE MADE INSIDE VALVE BOXES.
7. VALVE LOCATIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
8. SERVICE BOXES SHALL BE CENTERED ABOVE VALVE ASSEMBLIES TO FACILITATE ACCESS AND MAINTENANCE.
9. SERVICE BOXES SHALL BE FLUSH WITH FINISHED GRADE.
10. SERVICE BOXES SHALL BE SET PARALLEL TO EACH OTHER AND PERPENDICULAR TO THE EDGE OF PAVEMENT.

DET# SHT# SERVICE BOX REQUIREMENTS

NOT TO SCALE



NOTES:

1. USE TEFLON TAPE ON ALL THREADED FITTINGS EXCEPT AT SPRINKLER HEAD.
2. DO NOT USED SIDE INLET ON 12" SPRINKLERS.

DET# SHT# SPRINKLER

NOT TO SCALE

MN

C

CENTENNIAL OFFICE BUILDING

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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
PROFESSIONAL ENGINEER
under the laws of the State of **MINNESOTA**

WILLIAM J. DIEDE
Registration Number **59532** Date **10/08/2024**

Revisions		
Description	Date	Num

Comm: 232356
Date: 10/08/2024
Drawn: WJD
Check: DAR
North

IRRIGATION DETAILS

Scale: **As Indicated**

I1.02

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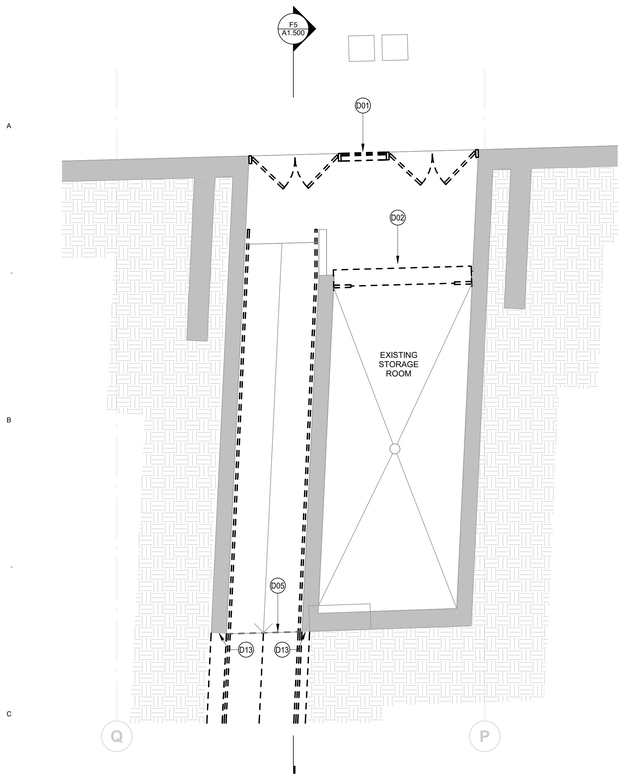


C1 COB - LEVEL SUB-BASEMENT - ENLARGED DEMOLITION PLAN
1/4" = 1'-0"
0 3' 6'

DEMOLITION LEGEND

- WALL TO REMAIN
- WALL TO BE REMOVED
- DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE
- DESIGNATED ITEM TO REMAIN
- DESIGNATED ITEM TO BE REMOVED

DEMOLITION PLAN KEY NOTES:

D01 REMOVE EXISTING ALUMINUM DOORS, FRAME, AND HARDWARE IN IT'S ENTIRETY.

D02 REMOVE EXISTING COILING DOOR, FRAME, AND HARDWARE IN IT'S ENTIETY.

D03 SELECTIVE DEMOLITION

D04 REMOVE EXISTING HOLLOW METAL (HM) FRAME AND DOOR, INCLUDING GLAZING, HARDWARE, ANCHORS, ETC. COMPLETE.

D05 SAWCUT AND REMOVE EXISTING CONCRETE SLAB TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL.

D06 REMOVE BUILDING IN ITS ENTIRETY. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION. FIELD VERIFY.

D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __ IN HEIGHT. IN ITS ENTIRETY. INCLUDING ALL ASSOCIATED COMPONENTS, SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

D08 COORDINATE REMOVAL/DISCONNECTION OF EXISTING GAS UTILITY AND ASSOCIATED COMPONENTS WITH LOCAL UTILITY COMPANY. EXACT LOCATION OF UNDERGROUND PIPING IS UNKNOWN. SEE UTILITY NOTES ON SHEET __ FOR MORE INFORMATION.

D09 REMOVE CONCRETE RETAINING WALL IN ITS ENTIRETY.

D10 REMOVE EXISTING ABOVE GROUND FUEL TANK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, REFER TO SPECIFICATION SECTION 23 11 16 FOR ADDITIONAL REQUIREMENTS.

D11 REMOVE EXISTING CONCRETE PUMP HOUSE IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, ASLO SEE CIVIL.

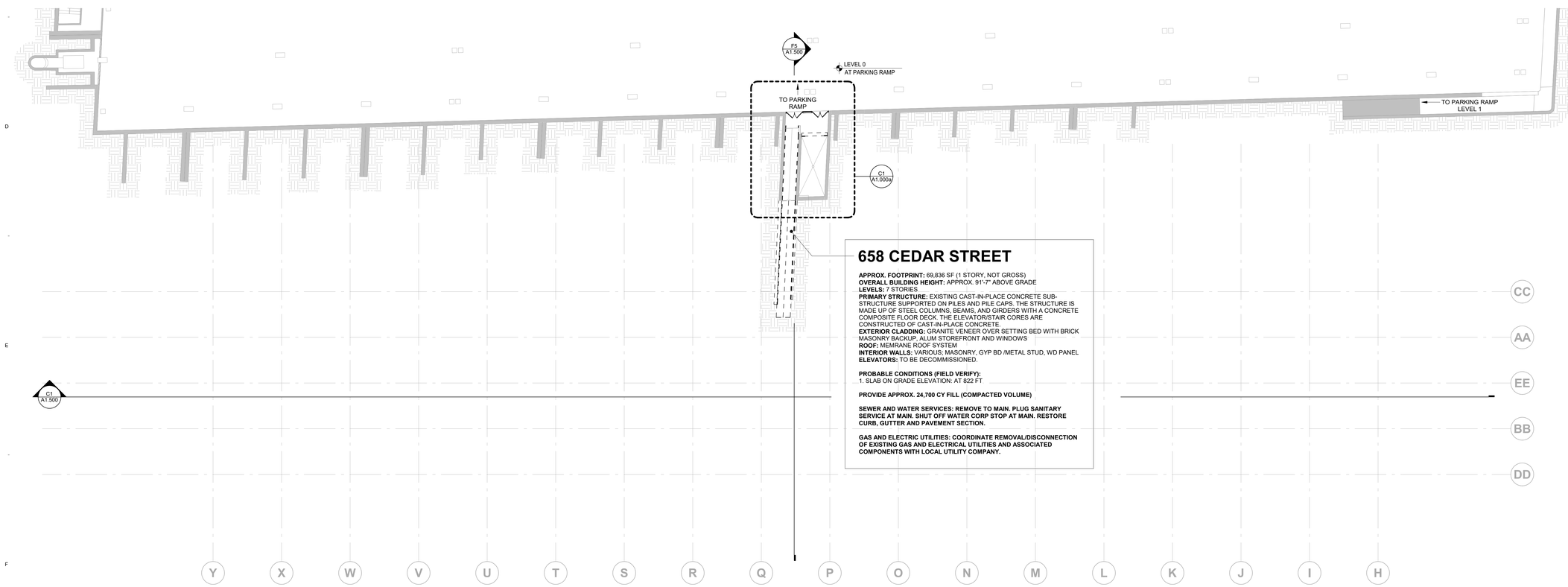
D12 SAWCUT AND REMOVE EXISTING CONCRETE FLOOR SLAB TO THE EXTENTS SHOWN OR AS REQUIRED FOR NEW WATER SERVICE, ALSO SEE CIVIL. FOR CONCRETE FLOOR SLAB INFILL, SEE FLOOR PLAN KEY NOTE __.

D13 SAWCUT AND REMOVE EXISTING CAST-IN-PLACE CONCRETE WALL TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL.

D14 SAWCUT AND REMOVE EXISTING CAST-IN-PLACE CONCRETE WALL AND ROOF TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL.

DEMOLITION GENERAL NOTES

1. DEMOLITION NOTES AND PLANS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND EXAMINE DRAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL ASPECTS OF DEMOLITION. CONTRACTOR TO REVIEW ALL DRAWINGS FOR ADDITIONAL DETAILS AND CONSTRUCTION SEQUENCING NOTES. MECHANICAL AND ELECTRICAL DEMOLITIONS ARE SHOWN ON MECHANICAL AND ELECTRICAL DRAWINGS.
3. REFER TO MECHANICAL AND ELECTRICAL FOR ADDITIONAL DEMOLITION NOTES.
4. CONTRACTOR TO COORDINATE DEMOLITION WITH DETAILS AND STRUCTURAL DRAWINGS TO INSTALL NEW LINTELS OR STRUCTURAL COMPONENTS TO SUPPORT EXISTING STRUCTURE.
5. PROVIDE AND COORDINATE ALL DEMOLITION AND RECONSTRUCTION WITH NEW WORK PLAN DIMENSIONS AND INSTALLATION OF NEW MATERIALS AND FINISHES, AS REQUIRED, WHETHER INDICATED ON DRAWINGS OR NOT.
6. PROVIDE SMOOTH AND CLEAN SUBSTRATE TO ALL AREAS RECEIVING NEW FINISHES. COORDINATE WORK WITH PLANS AND THE ROOM FINISH SCHEDULE.
7. ALL RELATED WOOD BLOCKING SUPPORT STRUCTURE, HARDWARE CONNECTION DEVICES, ADHESIVES, AND/OR MASTIC SHALL BE REMOVED FROM SURFACES AT ITEMS NOTED FOR REMOVAL. PROVIDE SURFACES ACCEPTABLE FOR PATCHING AND/OR NEW WORK.
8. DEMOLITION NOTES WITHOUT ARROWS INDICATE THAT THE NOTE APPLIES TO THE ENTIRE ROOM.
9. REFER TO SHEET __ FOR PHOTOGRAPHS OF BUILDINGS AND SITE (FOR REFERENCE ONLY). CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
10. TOTAL BUILDING DEMOLITION IS SHOWN WITH HEAVY DASHED LINE (SEE DEMO LEGEND). WORK INCLUDES COMPLETE STRUCTURE REMOVAL INCLUDING FOUNDATIONS AND FOOTINGS. SEE PLAN NOTES AND SPECIFICATIONS FOR MORE INFORMATION INCLUDING UTILITY DISCONNECTS AND HAZARDOUS MATERIAL ABATEMENT, ELEVATOR DECOMMISIONING, FIRE ALARM SYSTEM REMOVAL, ETC.



658 CEDAR STREET

APPROX. FOOTPRINT: 69,836 SF (1 STORY, NOT GROSS)
OVERALL BUILDING HEIGHT: APPROX. 91'-7" ABOVE GRADE
LEVELS: 7 STORIES
PRIMARY STRUCTURE: EXISTING CAST-IN-PLACE CONCRETE SUB-STRUCTURE SUPPORTED ON PILES AND PILE CAPS. THE STRUCTURE IS MADE UP OF STEEL COLUMNS, BEAMS, AND GIRDERS WITH A CONCRETE COMPOSITE FLOOR DECK. THE ELEVATOR/STAIR CORES ARE CONSTRUCTED OF CAST-IN-PLACE CONCRETE.
EXTERIOR CLADDING: GRANITE VENEER OVER SETTING BED WITH BRICK MASONRY BACKUP. ALUM STOREFRONT AND WINDOWS
ROOF: MEMRANE ROOF SYSTEM
INTERIOR WALLS: VARIOUS; MASONRY, GYP BD /METAL STUD, WD PANEL
ELEVATORS: TO BE DECOMMISSIONED.

PROBABLE CONDITIONS (FIELD VERIFY):
1. SLAB ON GRADE ELEVATION: AT 822 FT.

PROVIDE APPROX. 24,700 CY FILL (COMPACTED VOLUME)

SEWER AND WATER SERVICES: REMOVE TO MAIN. PLUG SANITARY SERVICE AT MAIN. SHUT OFF WATER CORP STOP AT MAIN. RESTORE CURB, GUTTER AND PAVEMENT SECTION.

GAS AND ELECTRIC UTILITIES: COORDINATE REMOVAL/DISCONNECTION OF EXISTING GAS AND ELECTRICAL UTILITIES AND ASSOCIATED COMPONENTS WITH LOCAL UTILITY COMPANY.

A

F1 COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
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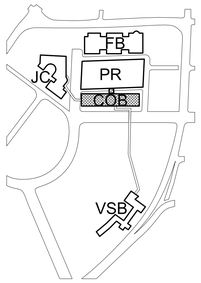

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN

Scale: As Indicated

A1.000a

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

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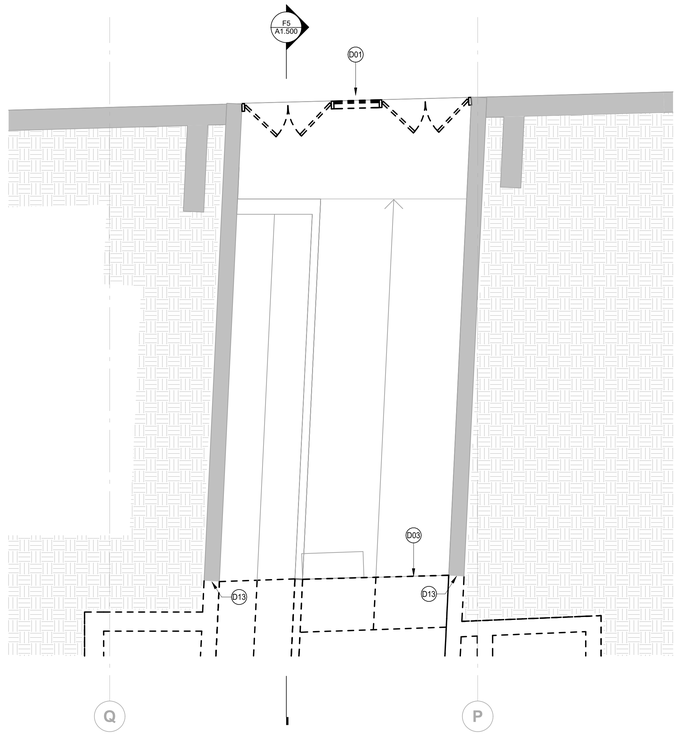

C1 COB - LEVEL BASEMENT - ENLARGED DEMOLITION PLAN
1/4" = 1'-0"
0 3' 6'

DEMOLITION PLAN KEY NOTES:

D01 REMOVE EXISTING ALUMINUM DOORS, FRAME, AND HARDWARE IN IT'S ENTIRETY.

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D14 SAWCUT AND REMOVE EXISTING CAST-IN-PLACE CONCRETE WALL AND ROOF TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL.

DEMOLITION GENERAL NOTES

1. DEMOLITION NOTES AND PLANS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND EXAMINE DRAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL ASPECTS OF DEMOLITION. CONTRACTOR TO REVIEW ALL DRAWINGS FOR ADDITIONAL DETAILS AND CONSTRUCTION SEQUENCING NOTES. MECHANICAL AND ELECTRICAL DEMOLITIONS ARE SHOWN ON MECHANICAL AND ELECTRICAL DRAWINGS.
3. REFER TO MECHANICAL AND ELECTRICAL FOR ADDITIONAL DEMOLITION NOTES.
4. CONTRACTOR TO COORDINATE DEMOLITION WITH DETAILS AND STRUCTURAL DRAWINGS TO INSTALL NEW LINTELS OR STRUCTURAL COMPONENTS TO SUPPORT EXISTING STRUCTURE.
5. PROVIDE AND COORDINATE ALL DEMOLITION AND RECONSTRUCTION WITH NEW WORK PLAN DIMENSIONS AND INSTALLATION OF NEW MATERIALS AND FINISHES, AS REQUIRED, WHETHER INDICATED ON DRAWINGS OR NOT.
6. PROVIDE SMOOTH AND CLEAN SUBSTRATE TO ALL AREAS RECEIVING NEW FINISHES. COORDINATE WORK WITH PLANS AND THE ROOM FINISH SCHEDULE.
7. ALL RELATED WOOD BLOCKING SUPPORT STRUCTURE, HARDWARE CONNECTION DEVICES, ADHESIVES, AND/OR MASTIC SHALL BE REMOVED FROM SURFACES AT ITEMS NOTED FOR REMOVAL. PROVIDE SURFACES ACCEPTABLE FOR PATCHING AND/OR NEW WORK.
8. DEMOLITION NOTES WITHOUT ARROWS INDICATE THAT THE NOTE APPLIES TO THE ENTIRE ROOM.
9. REFER TO SHEET __ FOR PHOTOGRAPHS OF BUILDINGS AND SITE (FOR REFERENCE ONLY). CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
10. TOTAL BUILDING DEMOLITION IS SHOWN WITH HEAVY DASHED LINE (SEE DEMO LEGEND). WORK INCLUDES COMPLETE STRUCTURE REMOVAL INCLUDING FOUNDATIONS AND FOOTINGS. SEE PLAN NOTES AND SPECIFICATIONS FOR MORE INFORMATION INCLUDING FOUNDATIONS AND FOOTINGS. SEE PLAN NOTES AND SPECIFICATIONS FOR MORE INFORMATION INCLUDING UTILITY DISCONNECTS AND HAZARDOUS MATERIAL ABATEMENT, ELEVATOR DECOMMISIONING, FIRE ALARM SYSTEM REMOVAL, ETC.

DEMOLITION LEGEND

- WALL TO REMAIN
- WALL TO BE REMOVED
- DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE
- DESIGNATED ITEM TO REMAIN
- DESIGNATED ITEM TO BE REMOVED

CENTENNIAL OFFICE BUILDING DEMOLITION

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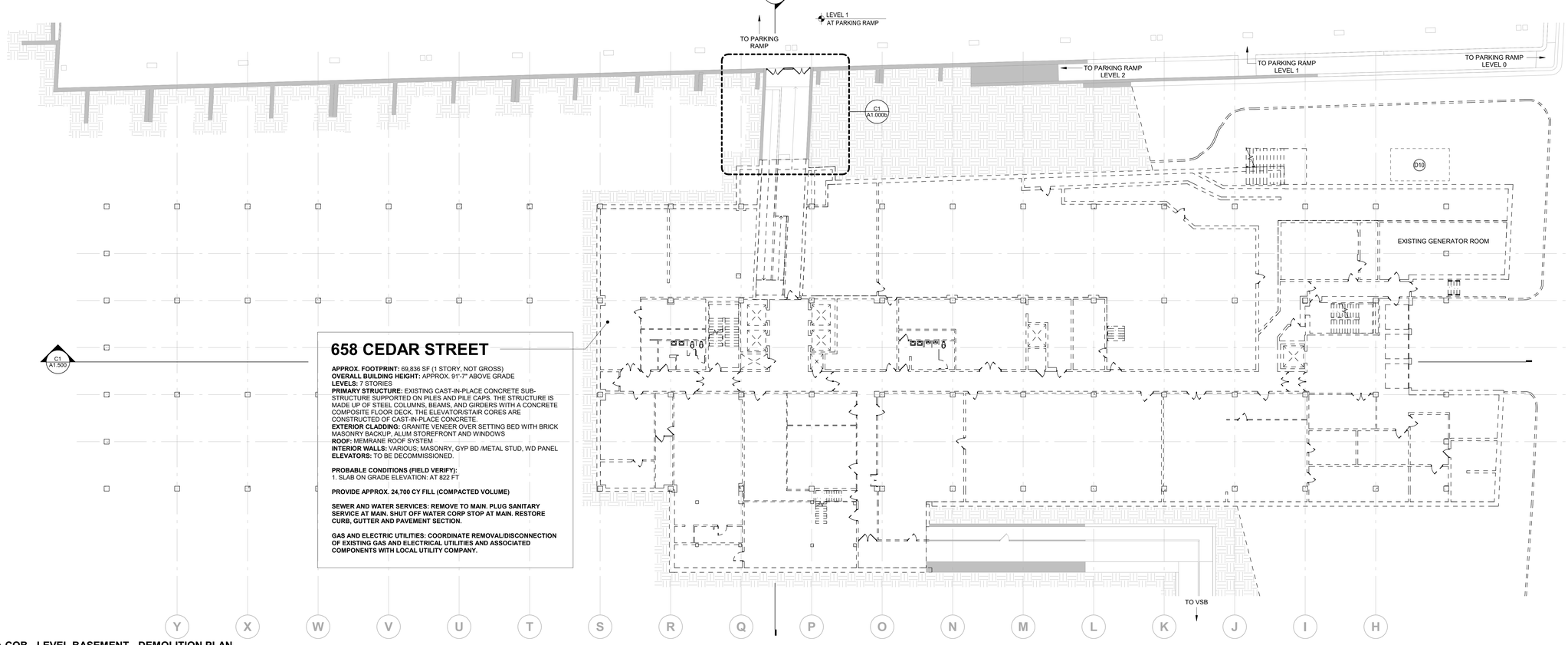

658 CEDAR STREET

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A

F1 COB - LEVEL BASEMENT - DEMOLITION PLAN
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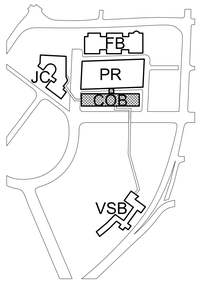

KEY PLAN

Revisions		
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Comm: 252071
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Drawn: KS
Check: JW
North

COB - LEVEL BASEMENT - DEMOLITION PLAN

Scale: As Indicated

DESIGN DEVELOPMENT ESTIMATE SET
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D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __' IN HEIGHT, IN ITS ENTIRETY. INCLUDING ALL ASSOCIATED COMPONENTS, SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

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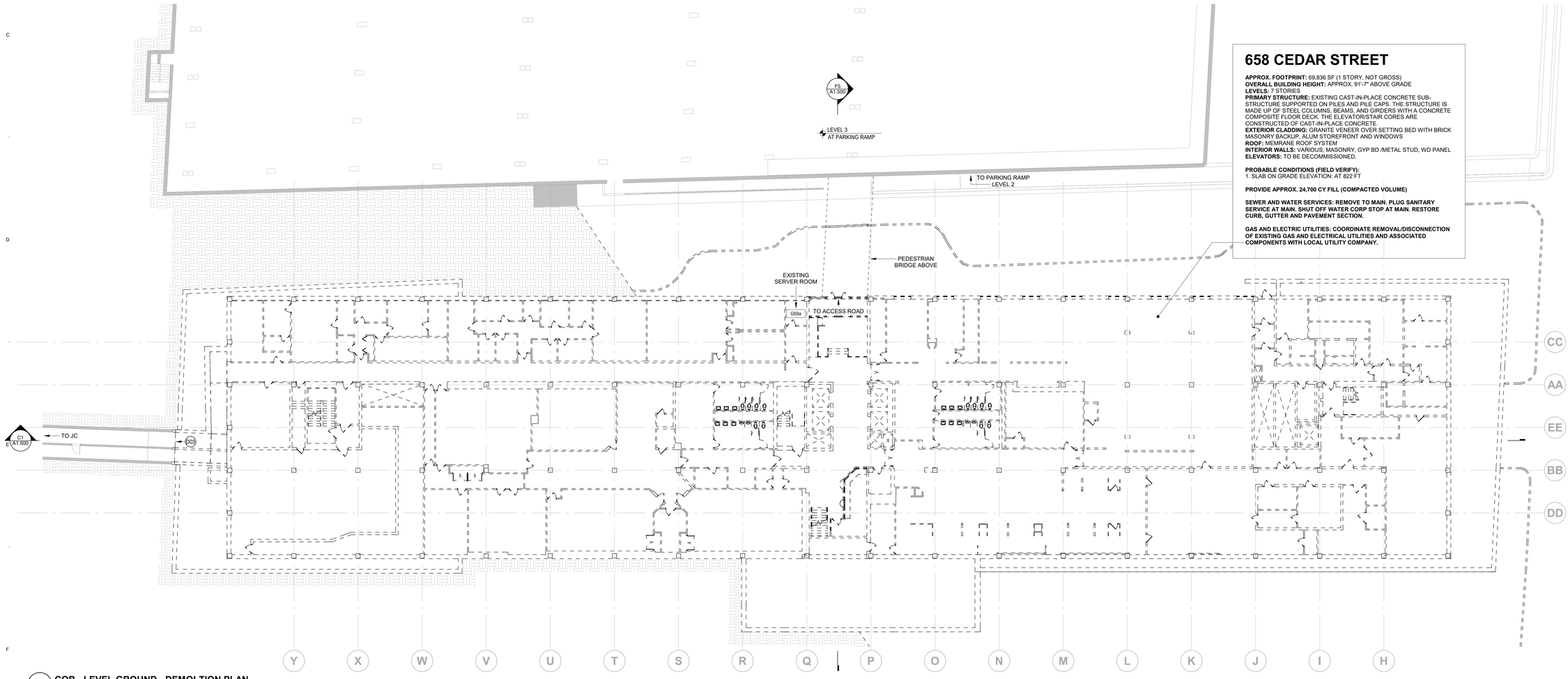

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www.bolton-menk.com

BKBM Structural & Civil Engineers
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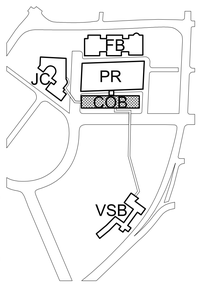

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MN

PEDESTRIAN BRIDGE - REFERENCE PHOTOS

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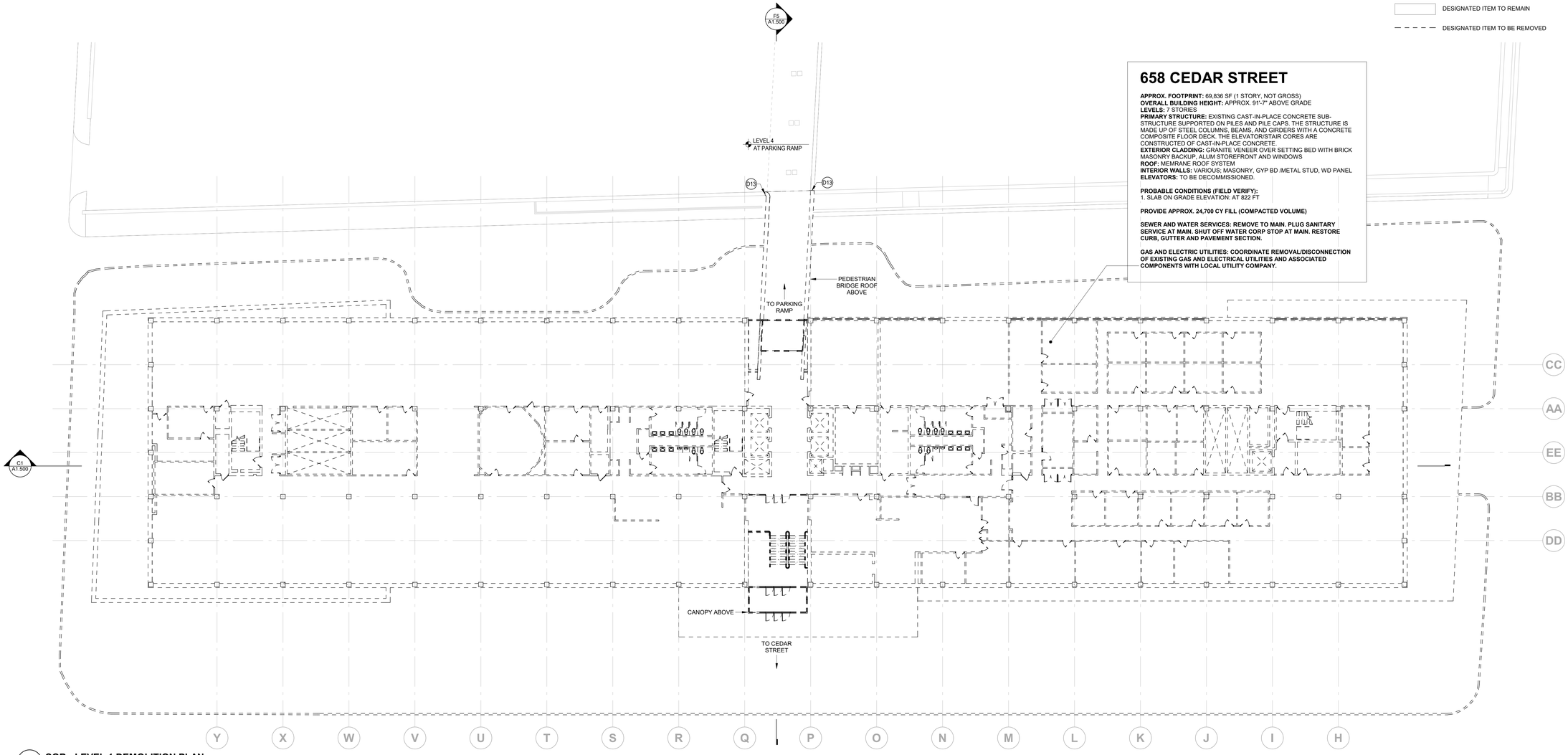

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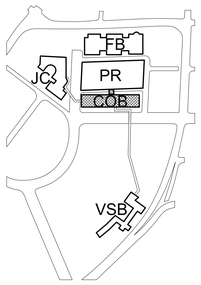

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6. PROVIDE SMOOTH AND CLEAN SUBSTRATE TO ALL AREAS RECEIVING NEW FINISHES. COORDINATE WORK WITH PLANS AND THE ROOM FINISH SCHEDULE.
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658 CEDAR STREET

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ELEVATORS: TO BE DECOMMISSIONED.

PROBABLE CONDITIONS (FIELD VERIFY):
1. SLAB ON GRADE ELEVATION: AT 822 FT

PROVIDE APPROX. 24,700 CY FILL (COMPACTED VOLUME)

SEWER AND WATER SERVICES: REMOVE TO MAIN. PLUG SANITARY SERVICE AT MAIN. SHUT OFF WATER CORP STOP AT MAIN. RESTORE CURB, GUTTER AND PAVEMENT SECTION.

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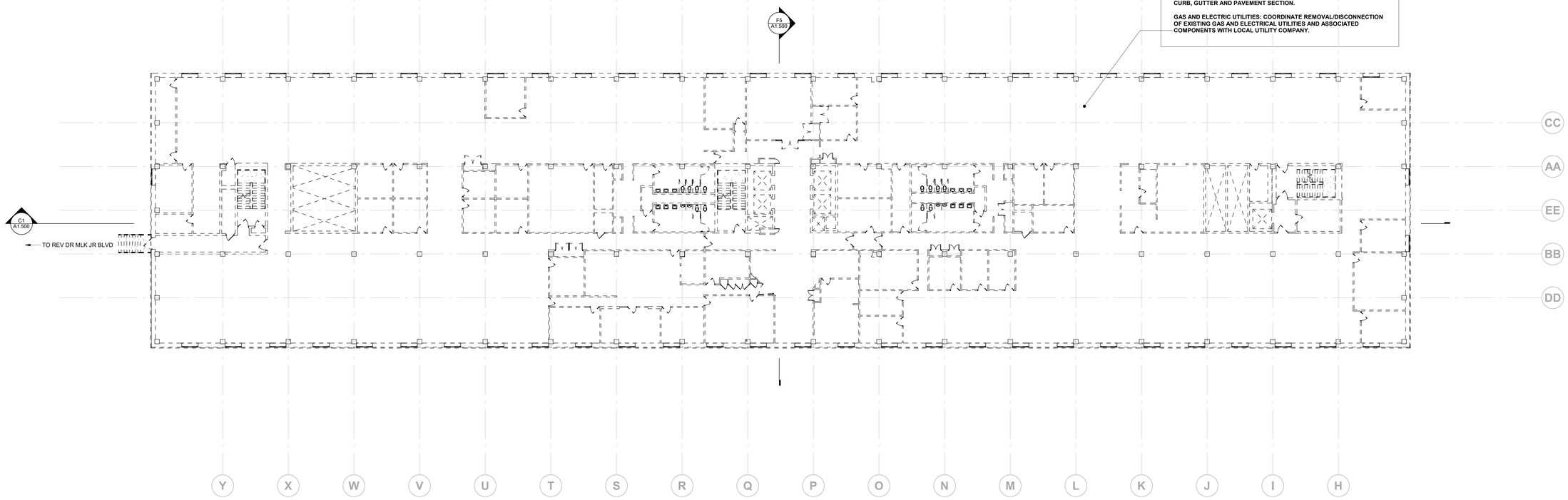

F1 COB - LEVEL 2 - DEMOLTION PLAN
1/16" = 1'-0"
0 12' 24'

CENTENNIAL OFFICE BUILDING DEMOLITION

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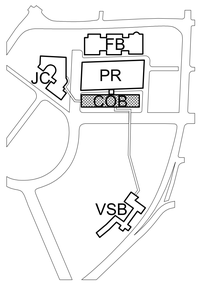

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

COB - LEVEL 2 - DEMOLITION PLAN

Scale: As indicated

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

A1.002

A

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MN

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- DOOR TO REMAIN
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D03 SELECTIVE DEMOLITION

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D06 REMOVE BUILDING IN ITS ENTIRETY. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION. FIELD VERIFY.

D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __' IN HEIGHT, IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED COMPONENTS, SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

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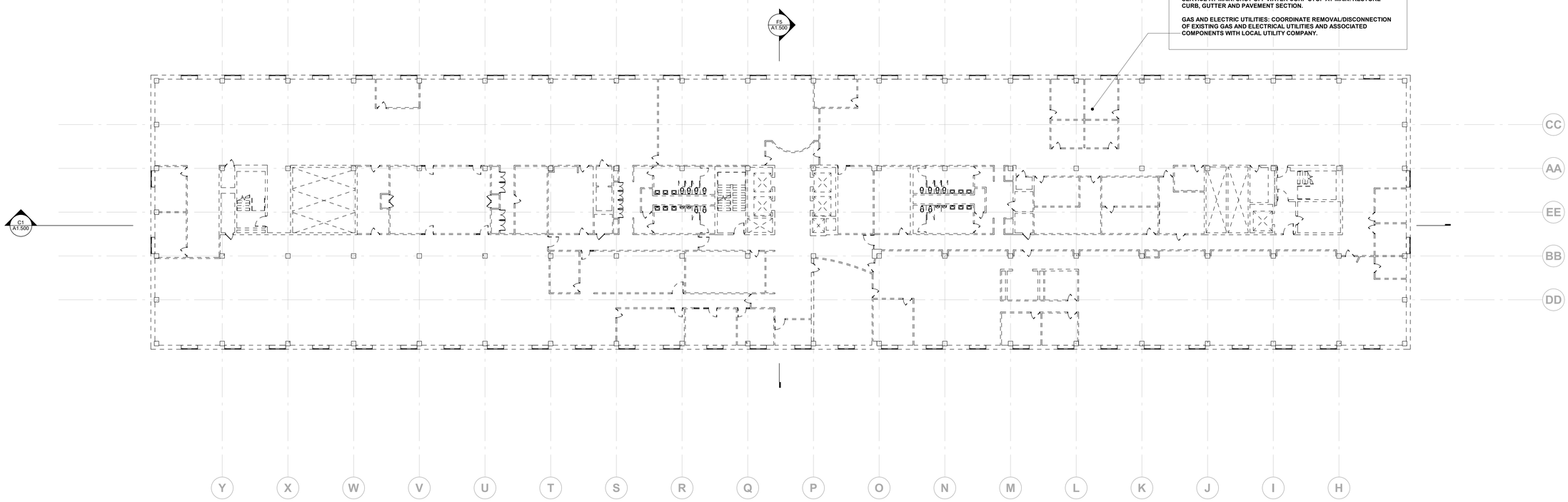

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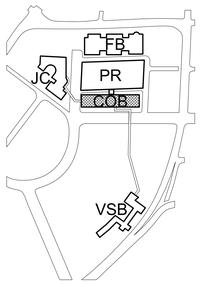

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Revisions		
Description	Date	Num

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Drawn: KS
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A1.003

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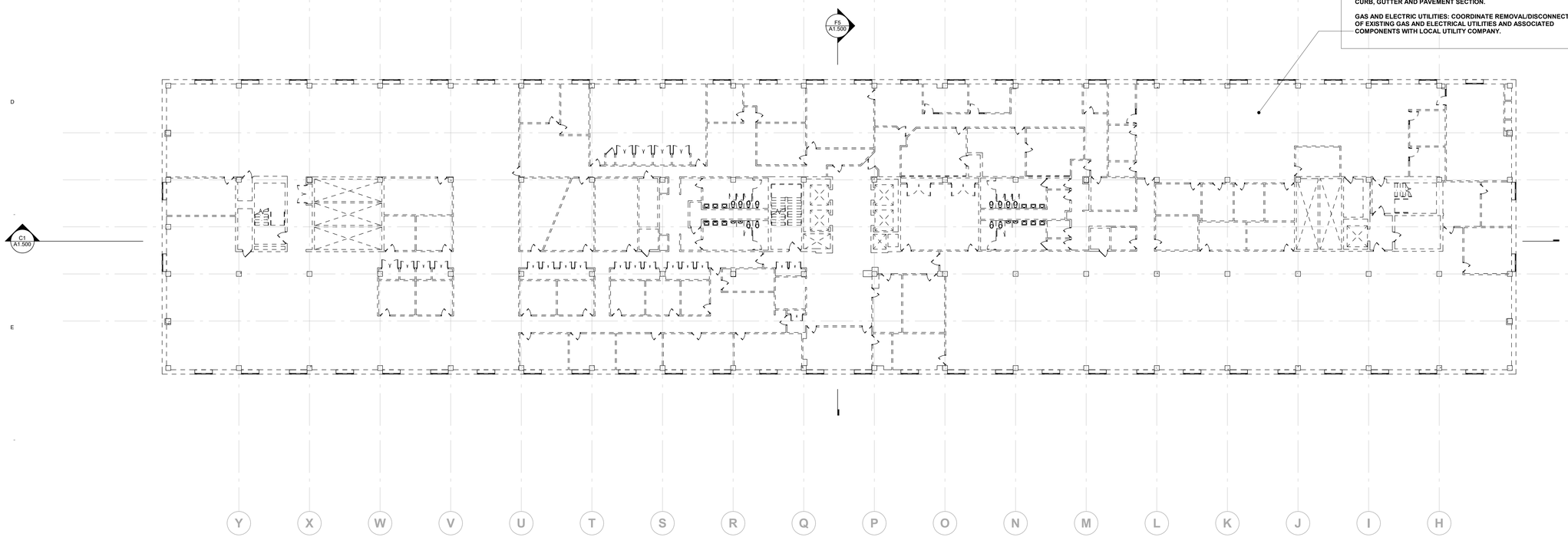

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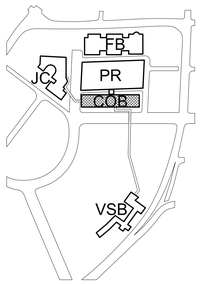

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658 CEDAR STREET

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PROBABLE CONDITIONS (FIELD VERIFY):
1. SLAB ON GRADE ELEVATION: AT 822 FT

PROVIDE APPROX. 24,700 CY FILL (COMPACTED VOLUME)

SEWER AND WATER SERVICES: REMOVE TO MAIN. PLUG SANITARY SERVICE AT MAIN. SHUT OFF WATER CORP STOP AT MAIN. RESTORE CURB, GUTTER AND PAVEMENT SECTION.

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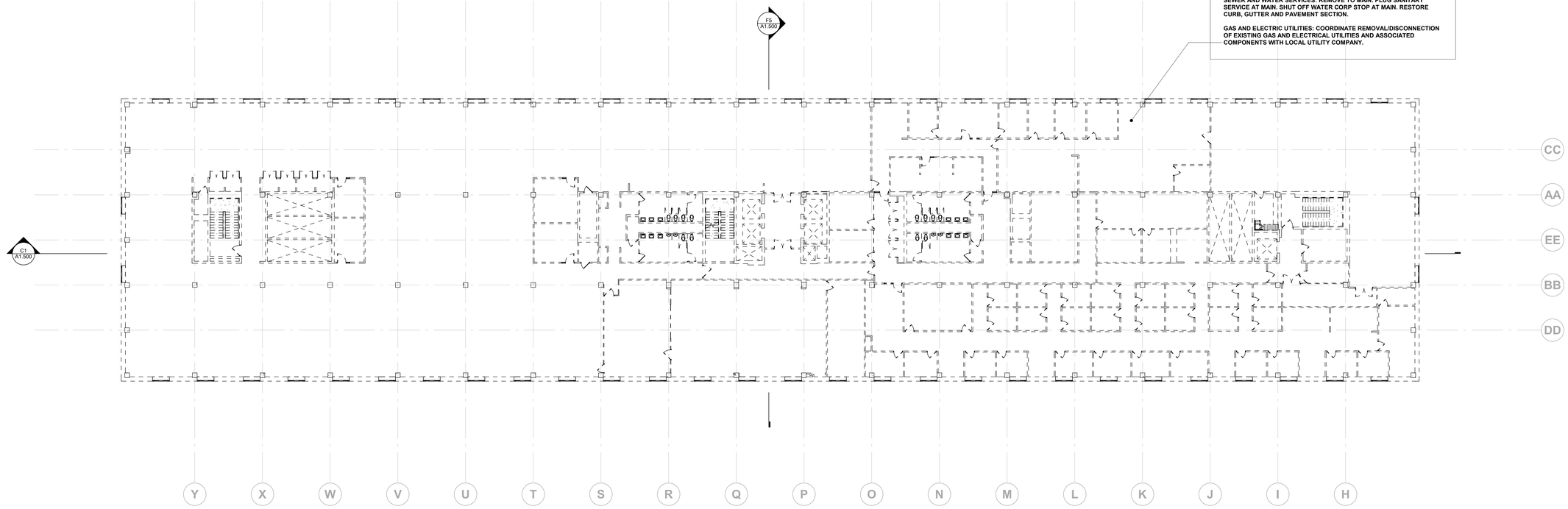

F1 COB - LEVEL 5 - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

A

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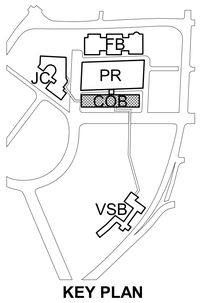

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

COB - LEVEL 5 - DEMOLITION PLAN

Scale: As Indicated

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

A1.005

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

MN

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- DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE
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D04 REMOVE EXISTING HOLLOW METAL (HM) FRAME AND DOOR, INCLUDING GLAZING, HARDWARE, ANCHORS, ETC. COMPLETE.

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D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __' IN HEIGHT, IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED COMPONENTS. SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

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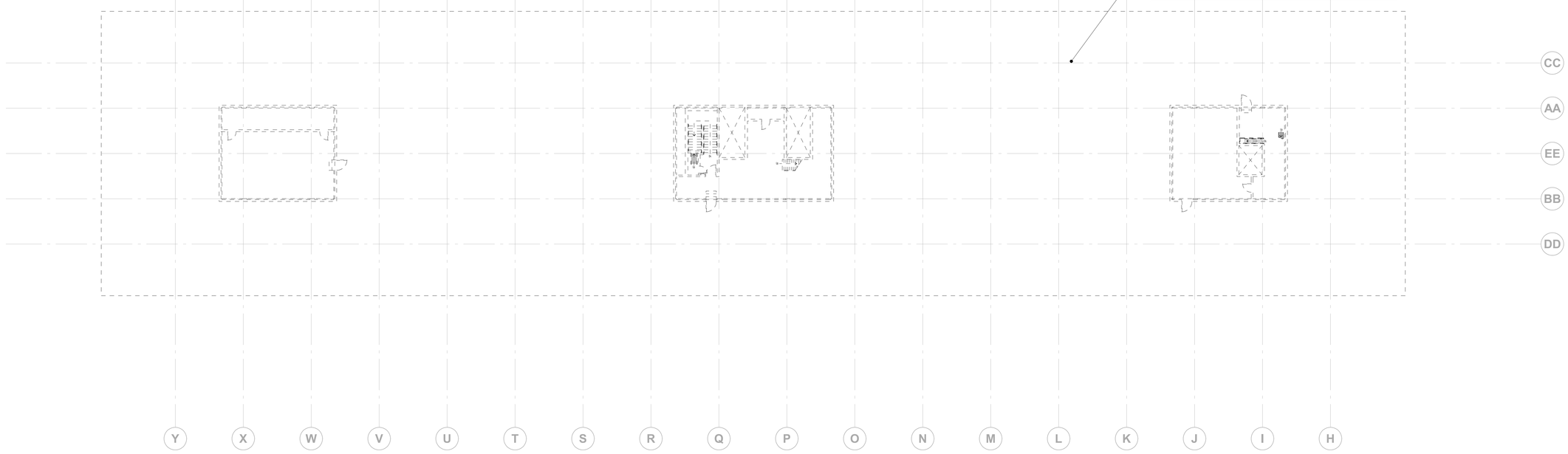

F1 COB - LEVEL PENTHOUSE - DEMOLITION PLAN
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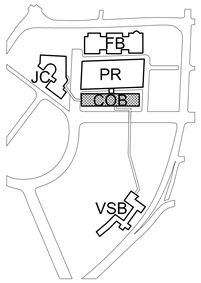

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

COB - LEVEL PENTHOUSE - DEMOLITION PLAN

Scale: As indicated

A1.006

DESIGN DEVELOPMENT ESTIMATE SET
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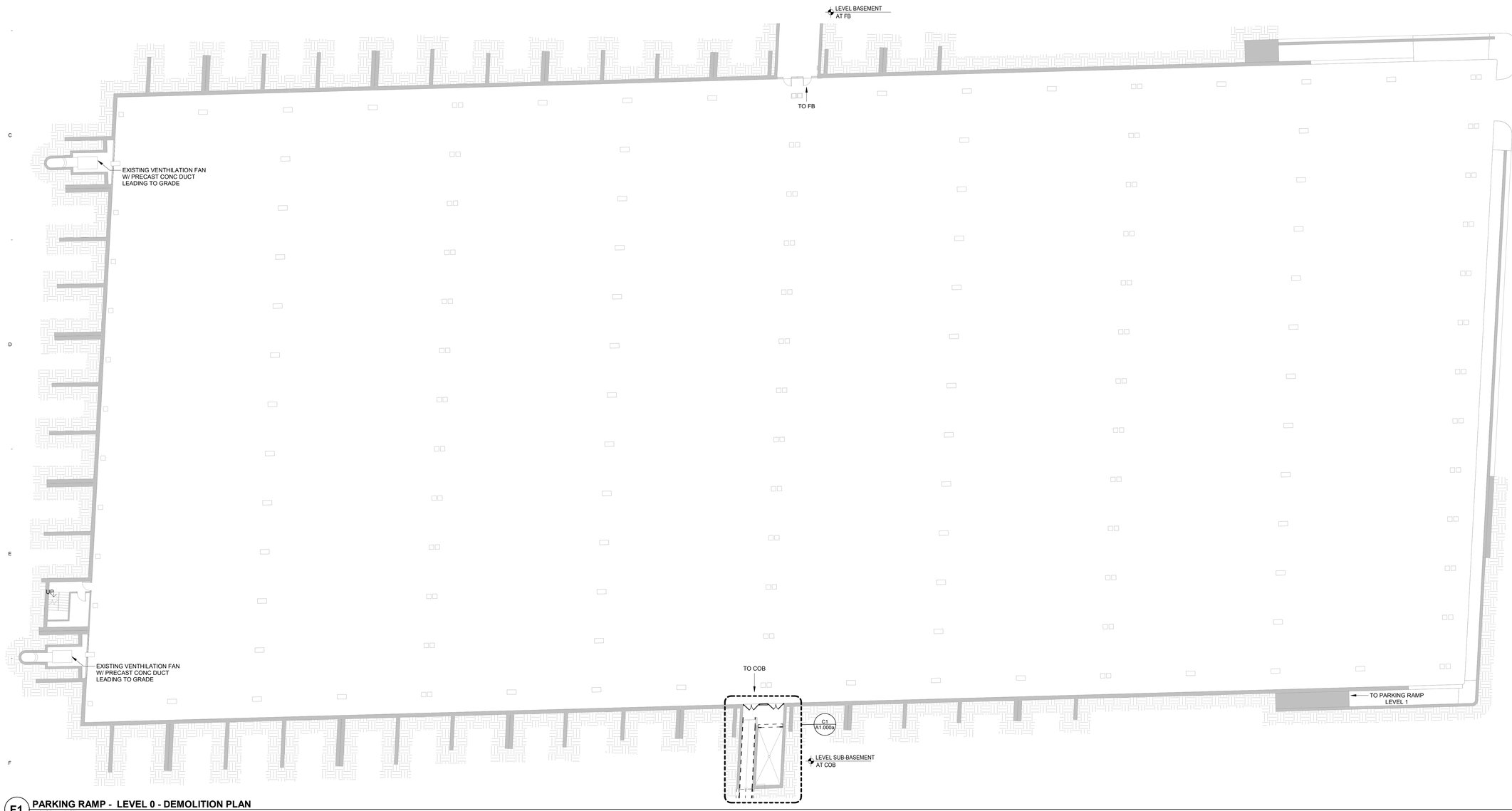

F1 PARKING RAMP - LEVEL 0 - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

A

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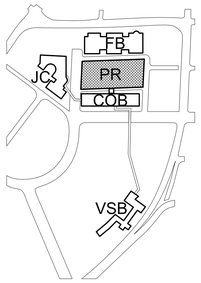

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

PARKING RAMP - LEVEL 0 - DEMOLITION PLAN

Scale: As indicated

A1.100

DESIGN DEVELOPMENT ESTIMATE SET
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MN

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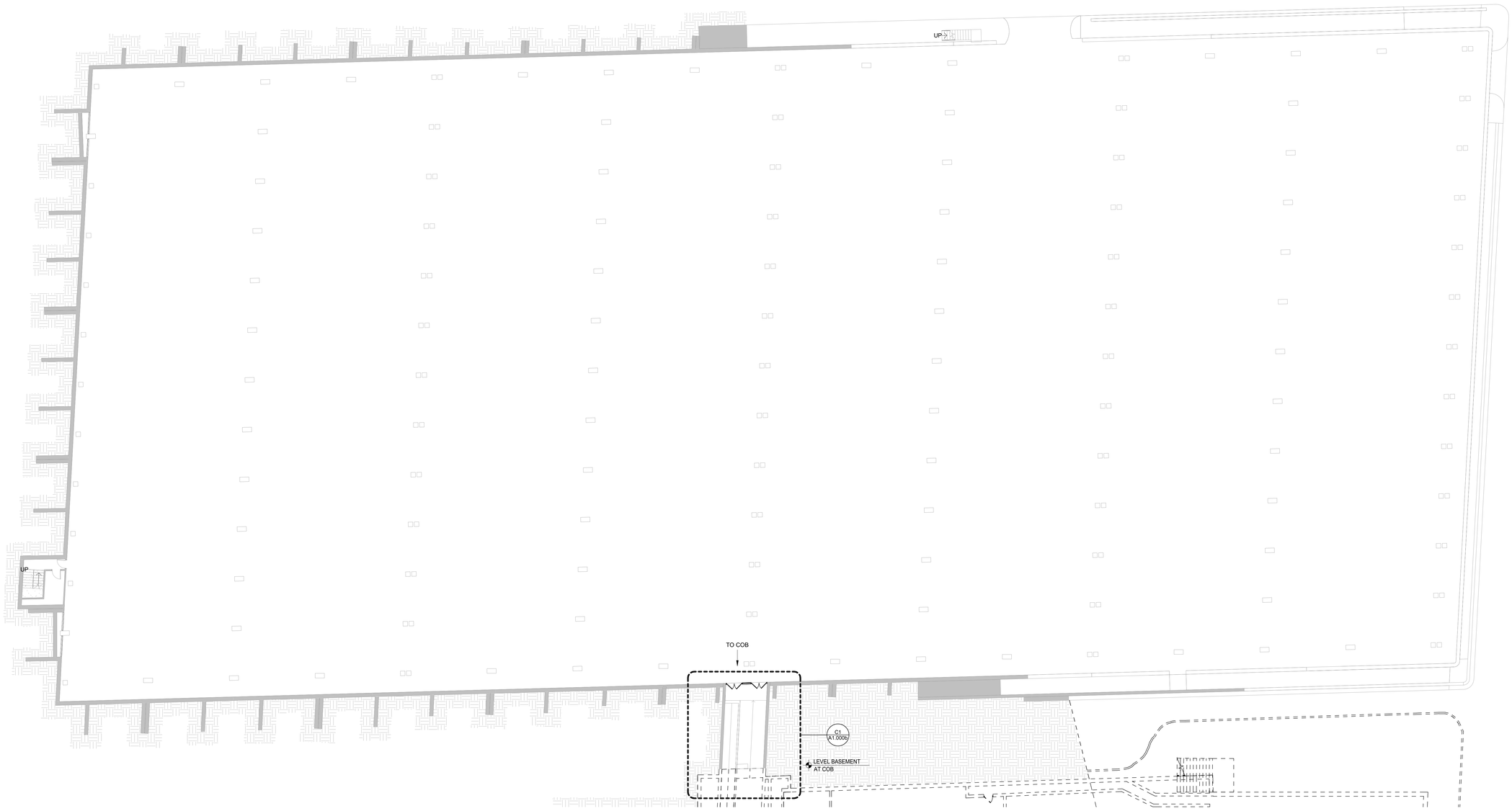

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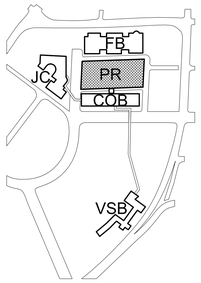
BKBM Project No. 24394.00



KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

PARKING RAMP - LEVEL 1 - DEMOLITION PLAN

Scale: As Indicated

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

A1.101

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MN

DEMOLITION LEGEND

- WALL TO REMAIN
- WALL TO BE REMOVED
- DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE
- DESIGNATED ITEM TO REMAIN
- DESIGNATED ITEM TO BE REMOVED

DEMOLITION PLAN KEY NOTES:

D01 REMOVE EXISTING ALUMINUM DOORS, FRAME, AND HARDWARE IN IT'S ENTIRETY.

D02 REMOVE EXISTING COILING DOOR, FRAME, AND HARDWARE IN IT'S ENTIETY.

D03 SELECTIVE DEMOLITION

D04 REMOVE EXISTING HOLLOW METAL (HM) FRAME AND DOOR, INCLUDING GLAZING, HARDWARE, ANCHORS, ETC. COMPLETE.

D05 SAWCUT AND REMOVE EXISTING CONCRETE SLAB TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL.

D06 REMOVE BUILDING IN ITS ENTIRETY. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION. FIELD VERIFY.

D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __' IN HEIGHT, IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED COMPONENTS. SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

D08 COORDINATE REMOVAL/DISCONNECTION OF EXISTING GAS UTILITY AND ASSOCIATED COMPONENTS WITH LOCAL UTILITY COMPANY. EXACT LOCATION OF UNDERGROUND PIPING IS UNKNOWN. SEE UTILITY NOTES ON SHEET __ FOR MORE INFORMATION.

D09 REMOVE CONCRETE RETAINING WALL IN ITS ENTIRETY.

D10 REMOVE EXISTING ABOVE GROUND FUEL TANK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS. REFER TO SPECIFICATION SECTION 23 11 16 FOR ADDITIONAL REQUIREMENTS.

D11 REMOVE EXISTING CONCRETE PUMP HOUSE IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, ASLO SEE CIVIL.

D12 SAWCUT AND REMOVE EXISTING CONCRETE FLOOR SLAB TO THE EXTENTS SHOWN OR AS REQUIRED FOR NEW WATER SERVICE, ALSO SEE CIVIL. FOR CONCRETE FLOOR SLAB INFILL, SEE FLOOR PLAN KEY NOTE __

D13 SAWCUT AND REMOVE EXISTING CAST-IN-PLACE CONCRETE WALL TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL.

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F1 PARKING RAMP - LEVEL 2 - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

CENTENNIAL OFFICE BUILDING DEMOLITION

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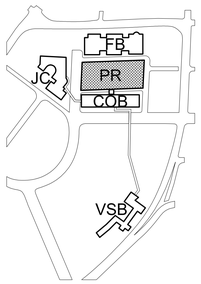

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North

PARKING RAMP - LEVEL 2 - DEMOLITION PLAN

Scale: As Indicated

DESIGN DEVELOPMENT ESTIMATE SET
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A1.102

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MN

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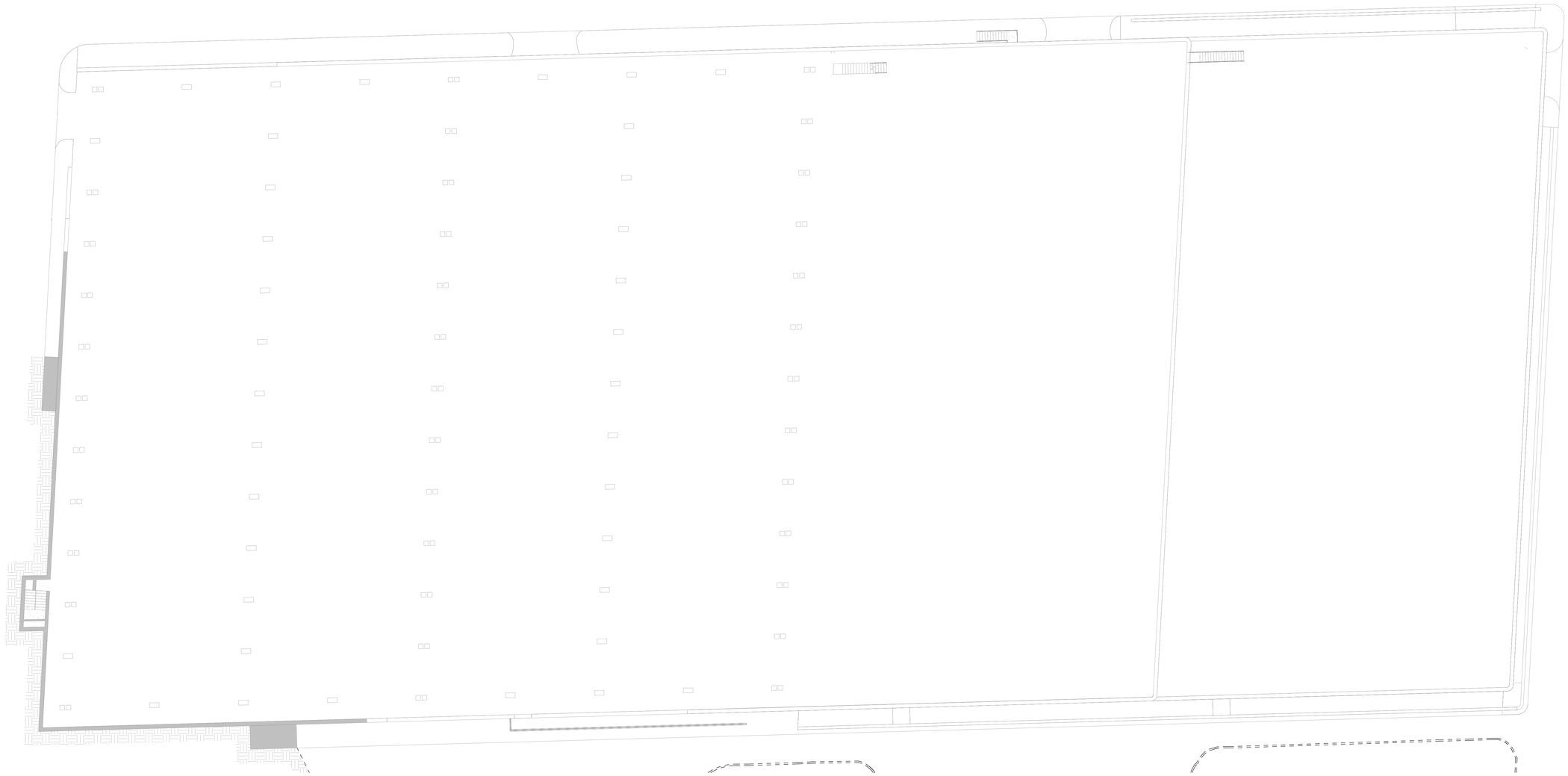

F1 PARKING RAMP - LEVEL 3 - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

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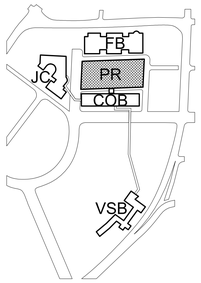

KEY PLAN

Revisions		
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Comm: 252071
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North

PARKING RAMP - LEVEL 3 - DEMOLITION PLAN

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MN

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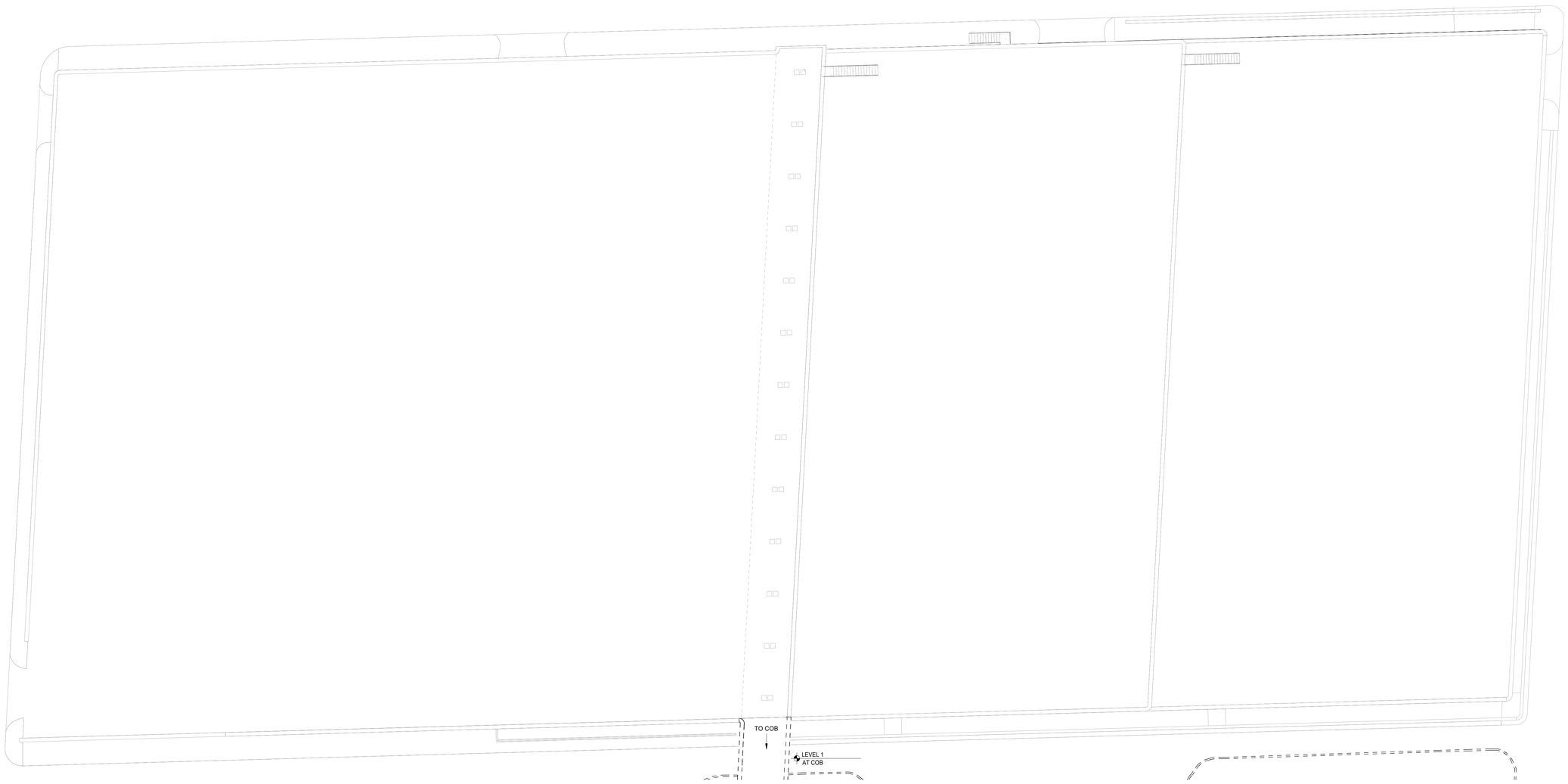

F1 PARKING RAMP - LEVEL 4 - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24'

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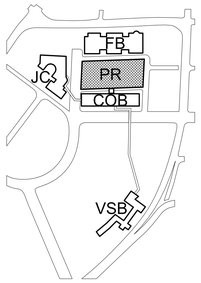

KEY PLAN

Revisions		
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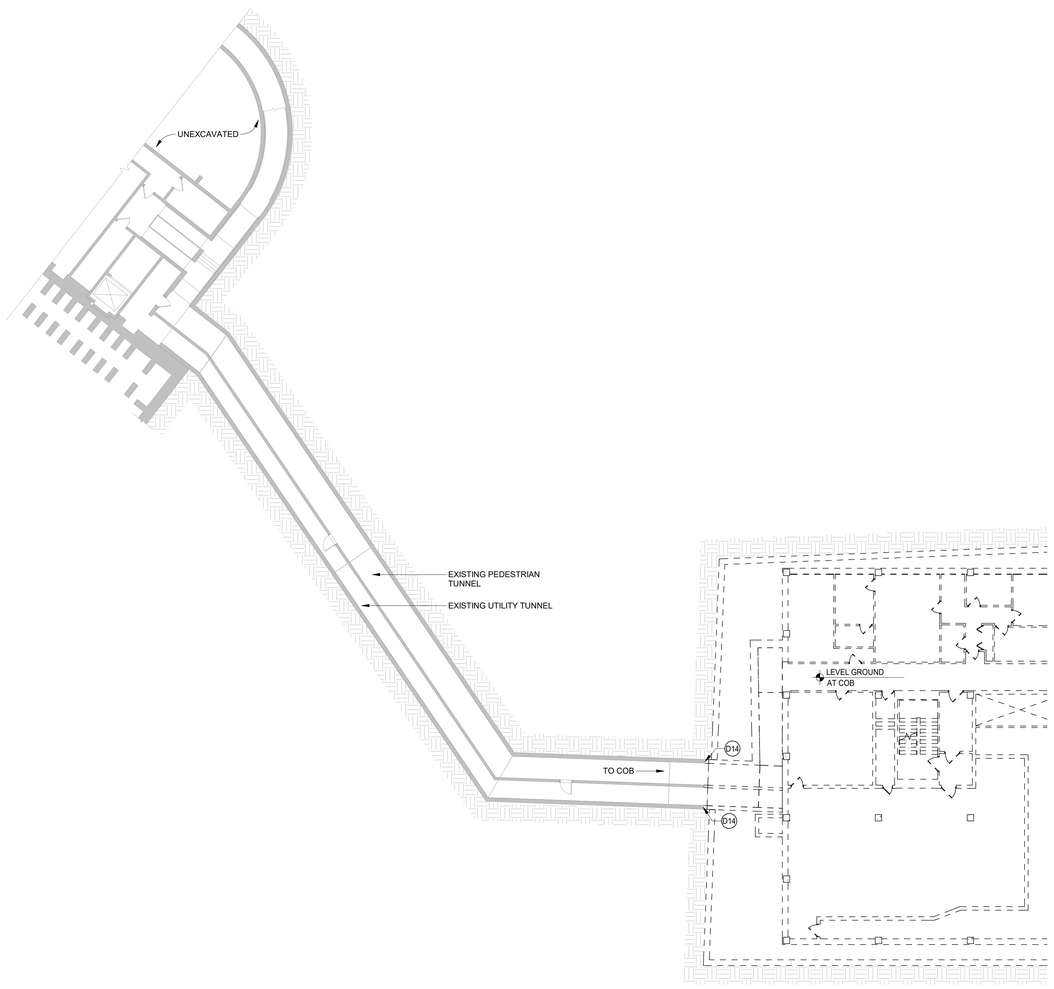

F1 JC - LEVEL BASEMENT - DEMOLITION PLAN
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10. TOTAL BUILDING DEMOLITION IS SHOWN WITH HEAVY DASHED LINE (SEE DEMO LEGEND). WORK INCLUDES COMPLETE STRUCTURE REMOVAL INCLUDING FOUNDATIONS AND FOOTINGS. SEE PLAN NOTES AND SPECIFICATIONS FOR MORE INFORMATION INCLUDING UTILITY DISCONNECTS AND HAZARDOUS MATERIAL ABATEMENT, ELEVATOR DECOMMISIONING, FIRE ALARM SYSTEM REMOVAL, ETC.

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
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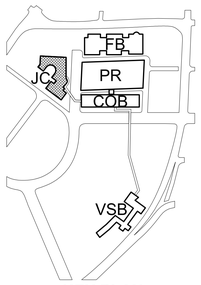

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

JC - LEVEL BASEMENT - DEMOLITION PLAN

Scale: As indicated

A1.200

A

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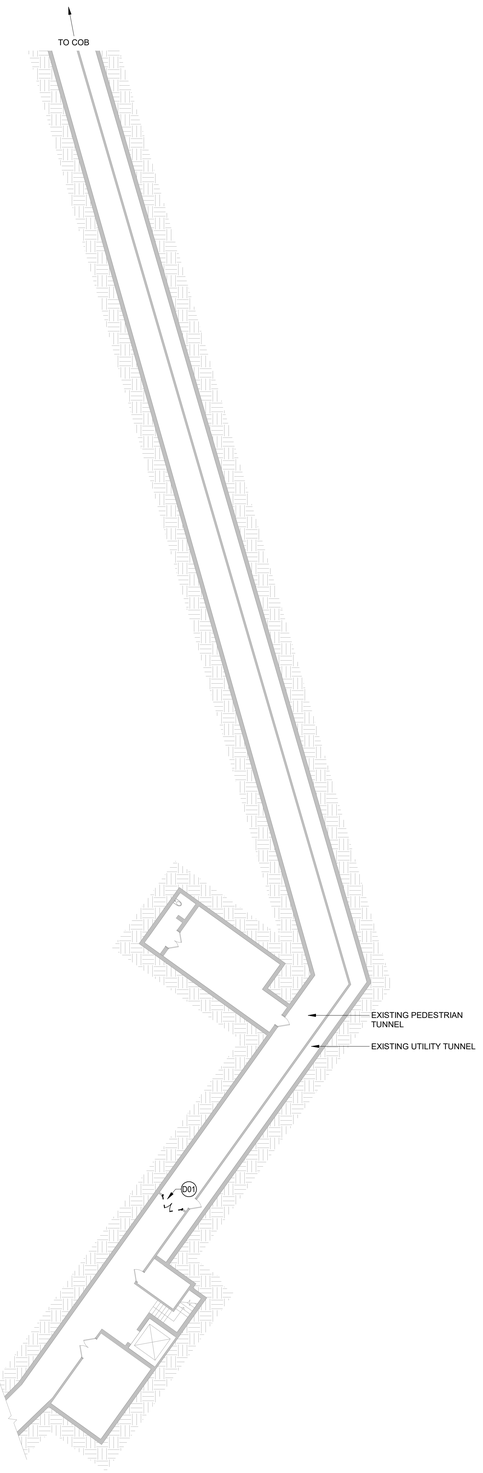

F1 **VSB - LEVEL BASEMENT - DEMOLITION PLAN**
1/16" = 1'-0"
0 12' 24'

DEMOLITION LEGEND

- WALL TO REMAIN
- WALL TO BE REMOVED
- DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE
- DESIGNATED ITEM TO REMAIN
- DESIGNATED ITEM TO BE REMOVED

DEMOLITION PLAN KEY NOTES:

D01 REMOVE EXISTING ALUMINUM DOORS, FRAME, AND HARDWARE IN IT'S ENTIRETY.

D02 REMOVE EXISTING COILING DOOR, FRAME, AND HARDWARE IN IT'S ENTIETY.

D03 SELECTIVE DEMOLITION

D04 REMOVE EXISTING HOLLOW METAL (HM) FRAME AND DOOR, INCLUDING GLAZING, HARDWARE, ANCHORS, ETC. COMPLETE.

D05 SAWCUT AND REMOVE EXISTING CONCRETE SLAB TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL.

D06 REMOVE BUILDING IN ITS ENTIRETY. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION. FIELD VERIFY.

D07 REMOVE EXISTING BRICK SMOKE STACK, ROUGHLY __ IN HEIGHT. IN ITS ENTIRETY. INCLUDING ALL ASSOCIATED COMPONENTS, SEE REFERENCE IMAHE ON SHEET __ ; ALSO SEE CIVIL.

D08 COORDINATE REMOVAL/DISCONNECTION OF EXISTING GAS UTILITY AND ASSOCIATED COMPONENTS WITH LOCAL UTILITY COMPANY. EXACT LOCATION OF UNDERGROUND PIPING IS UNKNOWN. SEE UTILITY NOTES ON SHEET __ FOR MORE INFORMATION.

D09 REMOVE CONCRETE RETAINING WALL IN ITS ENTIRETY.

D10 REMOVE EXISTING ABOVE GROUND FUEL TANK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, REFER TO SPECIFICATION SECTION 23 11 16 FOR ADDITIONAL REQUIREMENTS.

D11 REMOVE EXISTING CONCRETE PUMP HOUSE IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS, ASLO SEE CIVIL.

D12 SAWCUT AND REMOVE EXISTING CONCRETE FLOOR SLAB TO THE EXTENTS SHOWN OR AS REQUIRED FOR NEW WATER SERVICE, ALSO SEE CIVIL. FOR CONCRETE FLOOR SLAB INFILL, SEE FLOOR PLAN KEY NOTE __.

D13 SAWCUT AND REMOVE EXISTING CAST-IN-PLACE CONCRETE WALL TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL.

D14 SAWCUT AND REMOVE EXISTING CAST-IN-PLACE CONCRETE WALL AND ROOF TO THE APPROXIMATE EXTENTS SHOWN AND AS REQUIRED - COORDINATE EXTENTS WITH NEW WORK. COORDINATE ALSO WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL.

DEMOLITION GENERAL NOTES

1. DEMOLITION NOTES AND PLANS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND EXAMINE DRAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
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7. ALL RELATED WOOD BLOCKING SUPPORT STRUCTURE, HARDWARE CONNECTION DEVICES, ADHESIVES, AND/OR MASTIC SHALL BE REMOVED FROM SURFACES AT ITEMS NOTED FOR REMOVAL. PROVIDE SURFACES ACCEPTABLE FOR PATCHING AND/OR NEW WORK.
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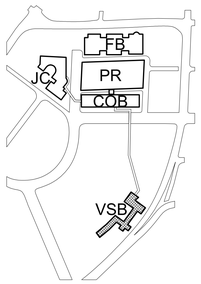

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

VSB - LEVEL BASEMENT - DEMOLITION PLAN

Scale: As Indicated

A1.300

A

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MN

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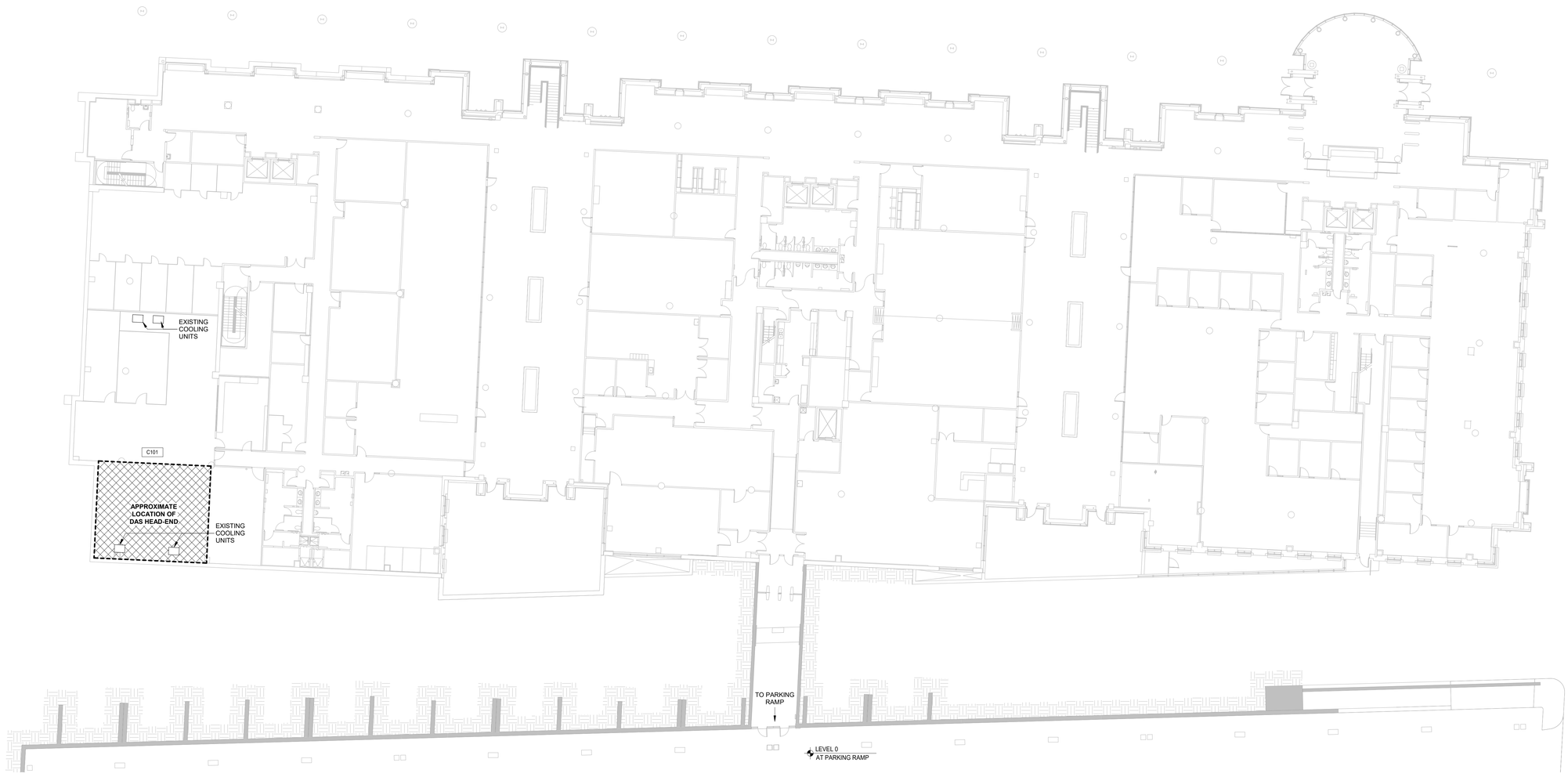

F1 FB - LEVEL BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"
0 12' 24"

CENTENNIAL OFFICE BUILDING DEMOLITION

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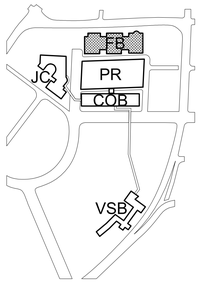

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

FB - LEVEL BASEMENT - DEMOLITION PLAN

Scale: As indicated

A1.400

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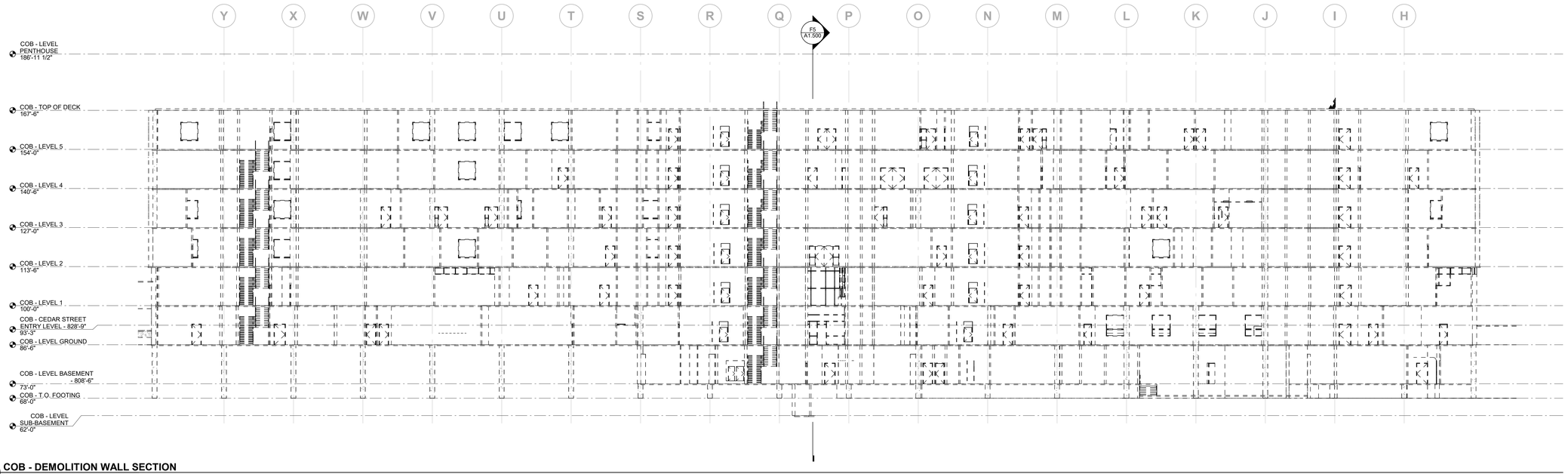
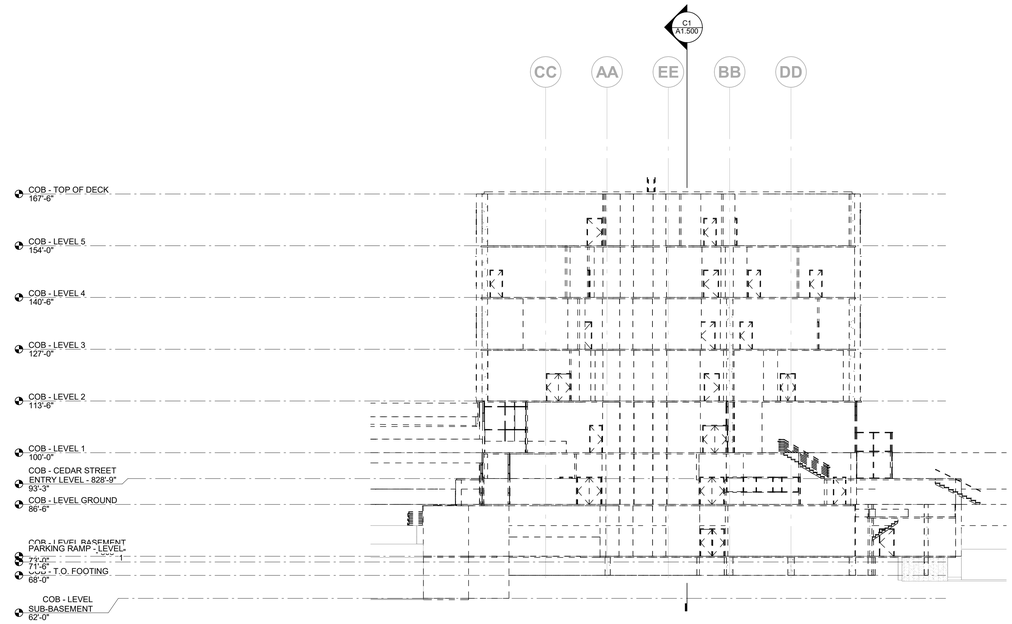


C1 COB - DEMOLITION WALL SECTION
1/16" = 1'-0"
0 12' 24'



F5 COB - DEMOLITION WALL SECTION
1/16" = 1'-0"
0 12' 24'

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Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: Author
Check: Checker

COB - DEMOLITION WALL SECTIONS

Scale: 1/16" = 1'-0"

A1.500

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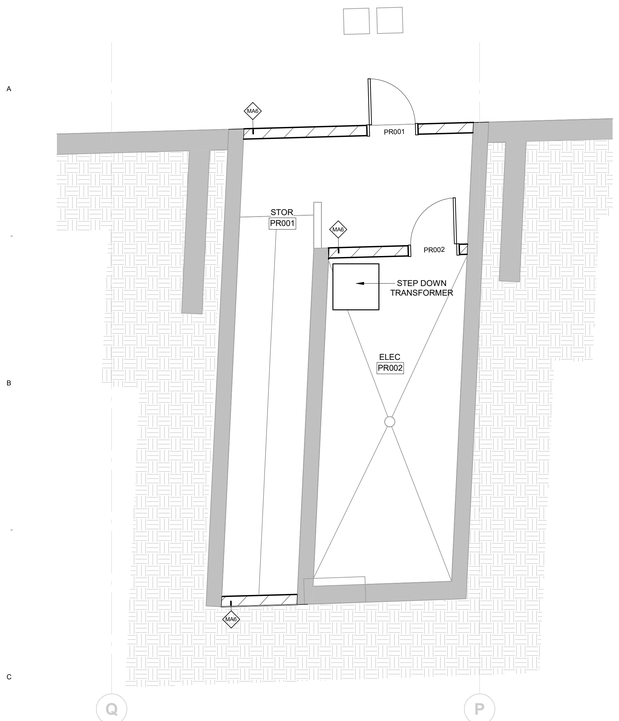
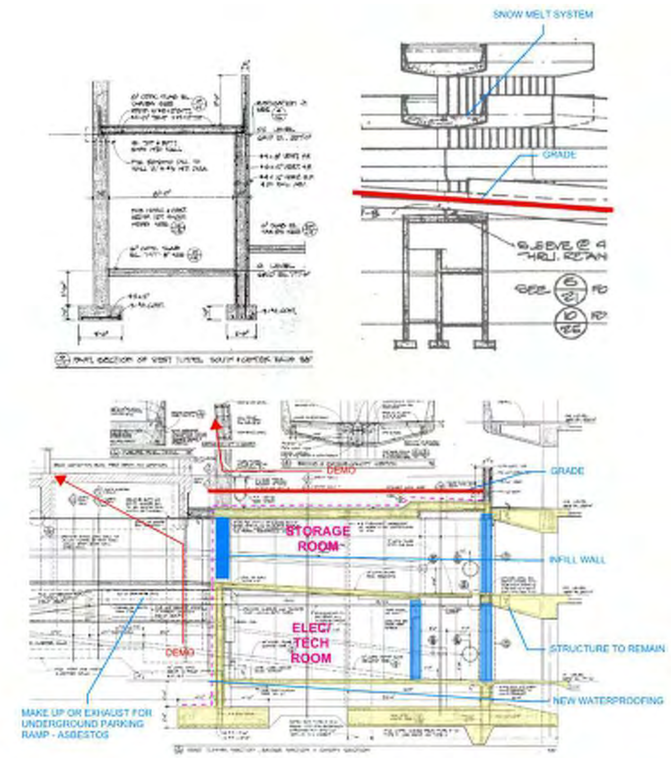


C1 COB - LEVEL SUB-BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"
0 3' 6'



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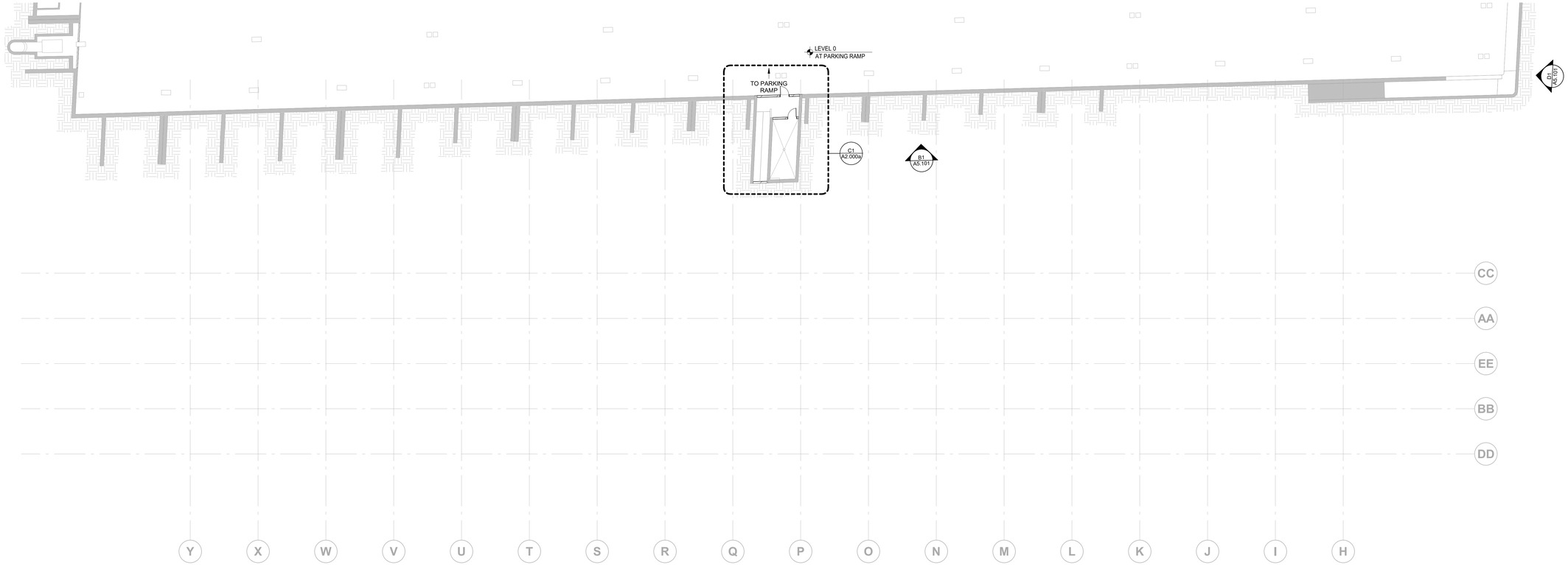

F1 COB - LEVEL SUB-BASEMENT - FLOOR PLAN
1/16" = 1'-0"
0 12' 24'

FLOOR PLAN GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL, SEE WALL TYPES FOR ACTUAL THICKNESS.
2. ALL GWB / METAL STUD WALLS ARE TO BE 5 INCHES THICK UNLESS OTHERWISE NOTED.
3. ALL CONCRETE BLOCK WALLS ARE TO BE 8 INCHES THICK UNLESS OTHERWISE NOTED.
4. COORDINATE SIZE AND LOCATION OF ALL DUCT AND SHAFT OPENINGS IN WALLS AND FLOORS W/ MECH. AND ELEC. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS. SEE LINTEL SCHEDULE.
5. SET FLOOR DRAINS 3/4" BELOW FINISHED CONCRETE FLOORS UNLESS OTHERWISE NOTED. PROVIDE CONSISTENT SLOPE FROM WALL TO DRAIN BY SLOPING CONCRETE, MIN. 1/4" PER FOOT.
6. VERIFY LOCATION, SIZE AND QUANTITY OF ALL EQUIPMENT PADS WITH MECHANICAL AND ELECTRICAL.
7. ALL DOOR / SIDELITE OPENINGS TO BEGIN 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
8. ALL GWB / METAL STUD WALLS ARE CENTERED ON GRID UNLESS OTHERWISE NOTED.
9. FIRE RATED WALLS ARE INDICATED ON CODE PLANS.

FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

02 CABINET UNIT HEATER. SEE DETAIL ___. SEE MECH. FOR SPECIFICATIONS, COORDINATE LOCATION WITH MECHANICAL.

03 CARD READER - SEE ELECTRICAL

04 STEEL PIPE RAIL / RAILING, FIELD PAINTED

05 PROVIDE AND INSTALL ONE 4'-0" x 8'-0" FIRE-RATED PLYWOOD BACKBOARD. SECURELY FASTEN TO WALL STRUCTURE. LOCATE IN A SERVICABLE LOCATION FOR MOUNTING A 3'-0" X 2'-0" COMMSCOPE CABINET. COORDINATE EXACT HEIGHT AND LOCATION WITH OWNER PRIOR TO INSTALLATION.

06 INTAKE HOOD - SEE MECHANICAL

07 RELIEF HOOD - SEE MECHANICAL

08 TUNNEL-ACCESS DOOR

09 BENCH

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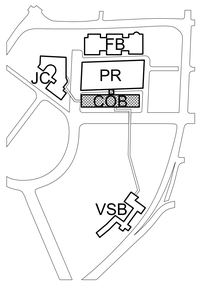

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
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COB - LEVEL SUB-BASEMENT - FLOOR PLAN

Scale: As indicated

DESIGN DEVELOPMENT ESTIMATE SET
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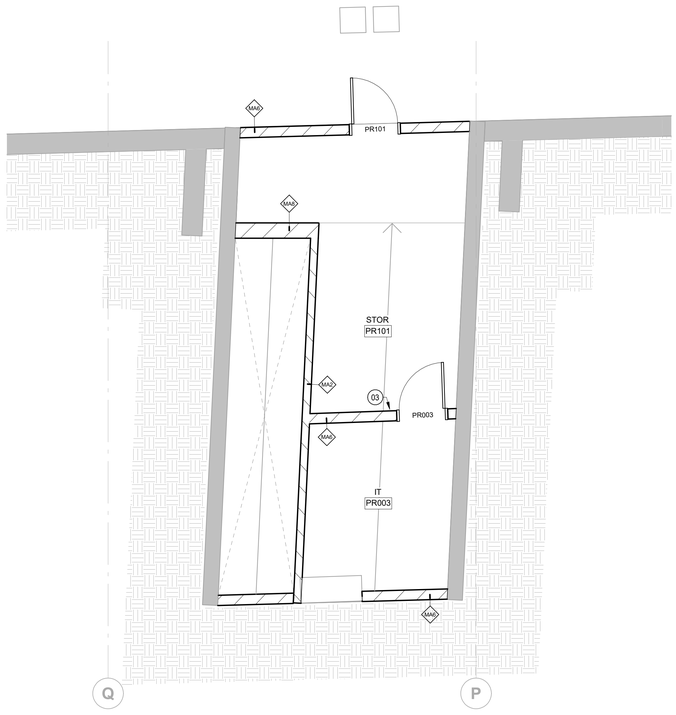

C1 COB - LEVEL BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"
0 3' 6'

ACCESS DOORS:
Type J-AL-Channel Frame H-20 Loading

Constructed with a channel frame for use in exterior applications or in those situations where there is concern of water or other liquids entering the access opening. Type J-AL H20 floor access doors are reinforced for AASHTO H-20 wheel loading and feature aluminum construction, type 316 stainless steel hardware, and engineered lift assistance for easy one-hand operation. Available in a number of standard single leaf and double leaf (Type JD-AL H20) sizes and special sizes can be specified.

https://www.bilco.com/ProductDetail/Type-J-AL-Channel-Frame-H-20-Loading-42

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01 STEEL PIPE BOLLARD - SEE DETAIL

02 CABINET UNIT HEATER. SEE DETAIL ___. SEE MECH. FOR SPECIFICATIONS, COORDINATE LOCATION WITH MECHANICAL.

03 CARD READER - SEE ELECTRICAL

04 STEEL PIPE RAIL / RAILING, FIELD PAINTED

05 PROVIDE AND INSTALL ONE 4'-0" x 8'-0" FIRE-RATED PLYWOOD BACKBOARD. SECURELY FASTEN TO WALL STRUCTURE. LOCATE IN A SERVICABLE LOCATION FOR MOUNTING A 3'-0" X 2'-0" COMMSCOPE CABINET. COORDINATE EXACT HEIGHT AND LOCATION WITH OWNER PRIOR TO INSTALLATION.

06 INTAKE HOOD - SEE MECHANICAL

07 RELIEF HOOD - SEE MECHANICAL

08 TUNNEL-ACCESS DOOR

09 BENCH

CENTENNIAL OFFICE BUILDING DEMOLITION

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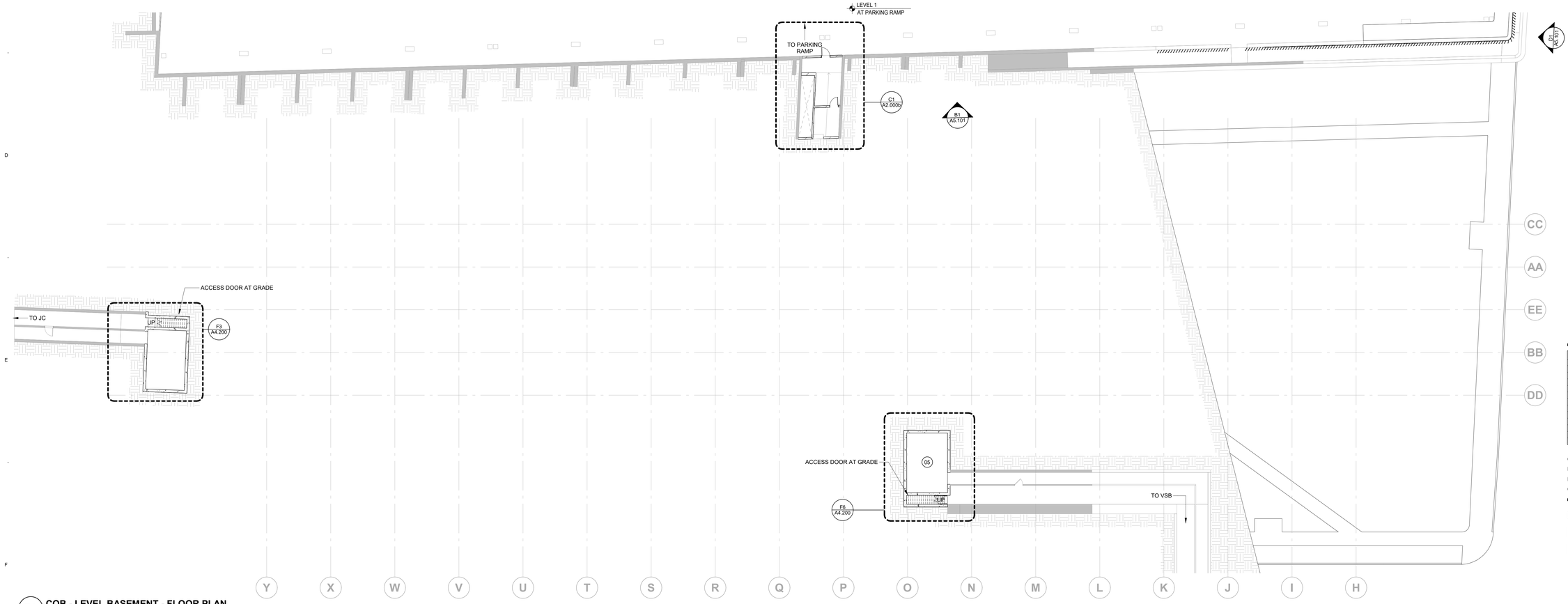
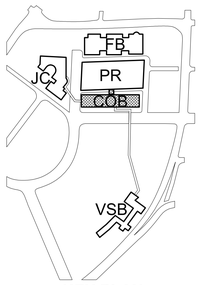


F1 COB - LEVEL BASEMENT - FLOOR PLAN
1/16" = 1'-0"
0 12' 24'



KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

COB - LEVEL BASEMENT - FLOOR PLAN

Scale: As Indicated

DESIGN DEVELOPMENT ESTIMATE SET
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A2.000b

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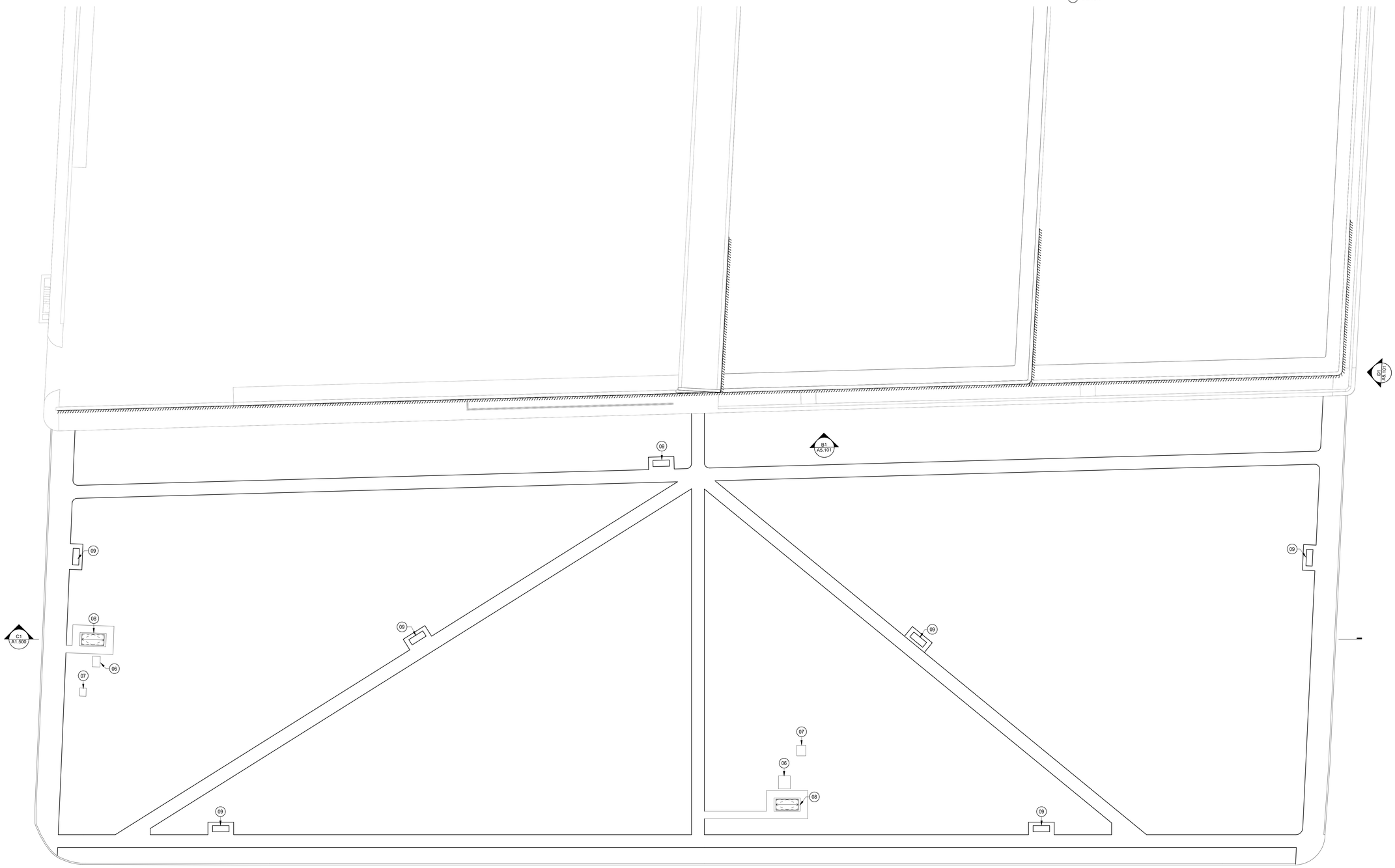

FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

02 CABINET UNIT HEATER. SEE DETAIL __. SEE MECH. FOR SPECIFICATIONS, COORDINATE LOCATION WITH MECHANICAL

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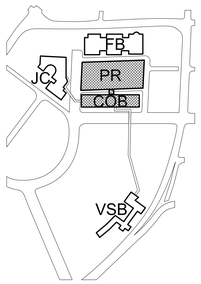

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW

North

COB - SITE PLAN

A

F1 **SITE PLAN**
1/16" = 1'-0"
0 12' 24'

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

Scale: As Indicated

A2.001

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MN

FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

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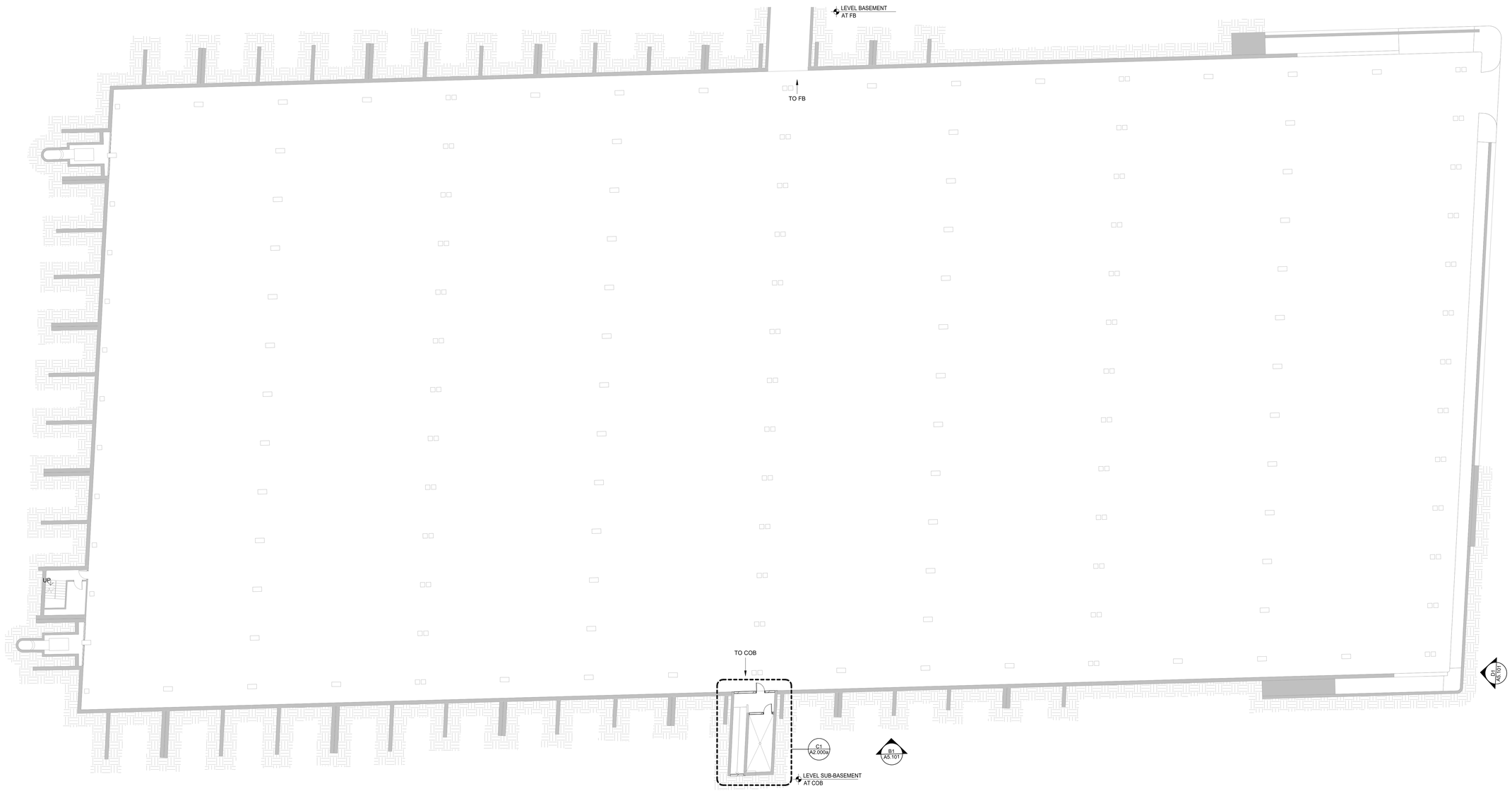

F1 PARKING RAMP - LEVEL 0 - FLOOR PLAN
1/16" = 1'-0"
0 12' 24'

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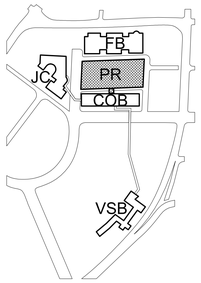

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

PARKING RAMP - LEVEL 0 - FLOOR PLAN

Scale: As Indicated

A2.100

DESIGN DEVELOPMENT ESTIMATE SET
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FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

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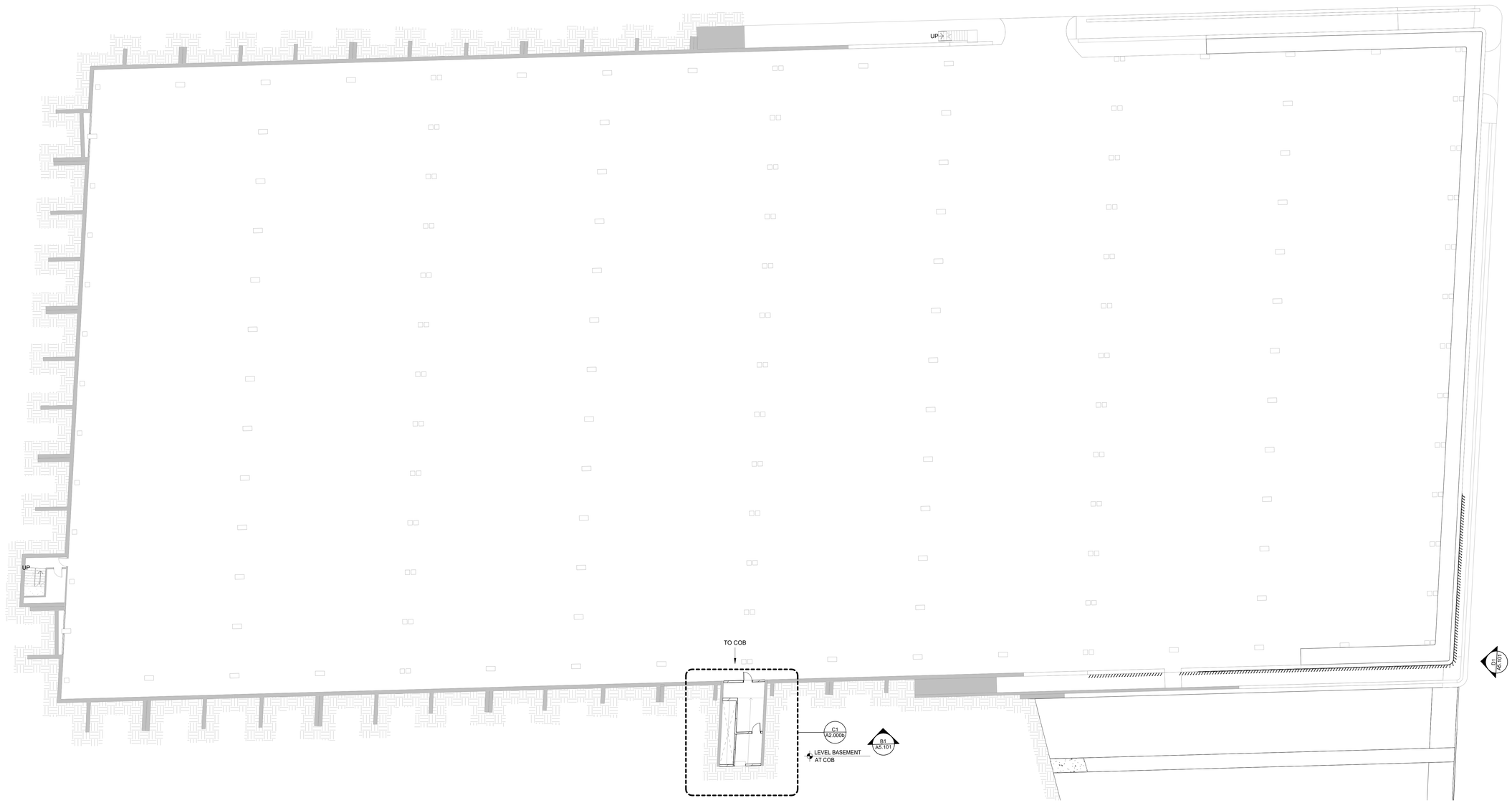

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F1 PARKING RAMP - LEVEL 1 - FLOOR PLAN
1/16" = 1'-0"
0 12' 24'

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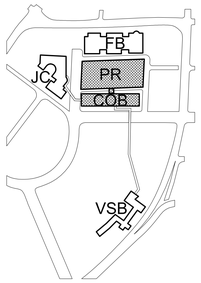

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
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North

PARKING RAMP - LEVEL 1 - FLOOR PLAN

Scale: As indicated

A2.101

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FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

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F1 PARKING RAMP - LEVEL 2 - FLOOR PLAN
1/16" = 1'-0"
0 12' 24'

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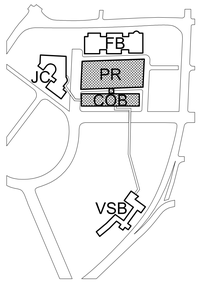

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
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PARKING RAMP - LEVEL 2 - FLOOR PLAN

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FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

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F1 PARKING RAMP - LEVEL 3 - FLOOR PLAN
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0 12' 24'

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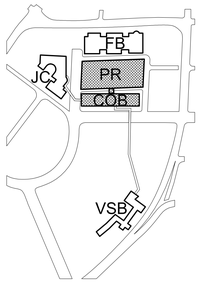

KEY PLAN

Revisions		
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Check: JW
North

PARKING RAMP - LEVEL 3 - FLOOR PLAN

Scale: As Indicated

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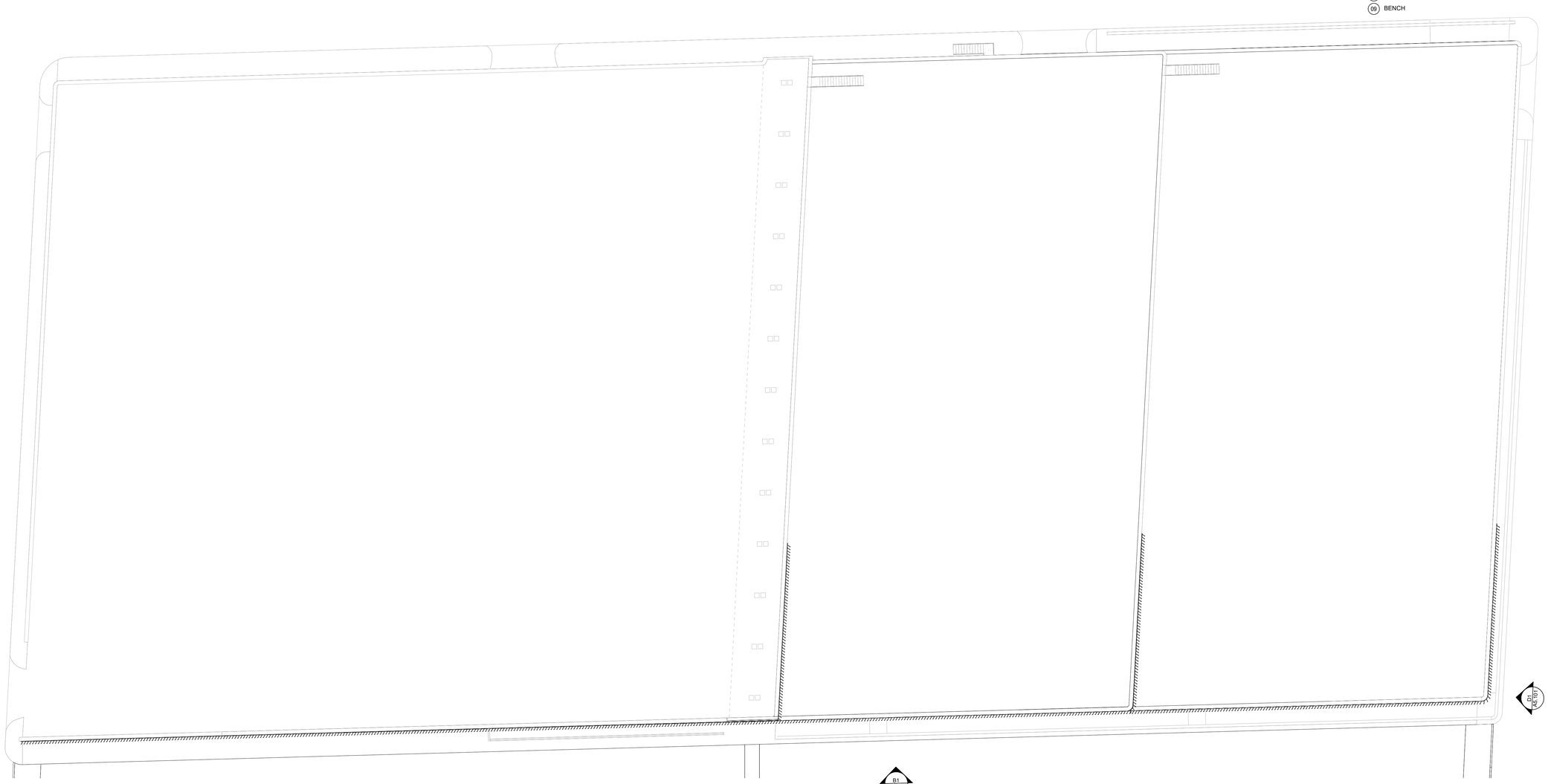

F1 PARKING RAMP - LEVEL 4 - FLOOR PLAN
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0 12' 24'

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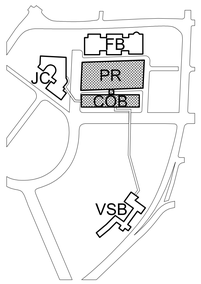

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

PARKING RAMP - LEVEL 4 - FLOOR PLAN

Scale: As indicated

A2.104

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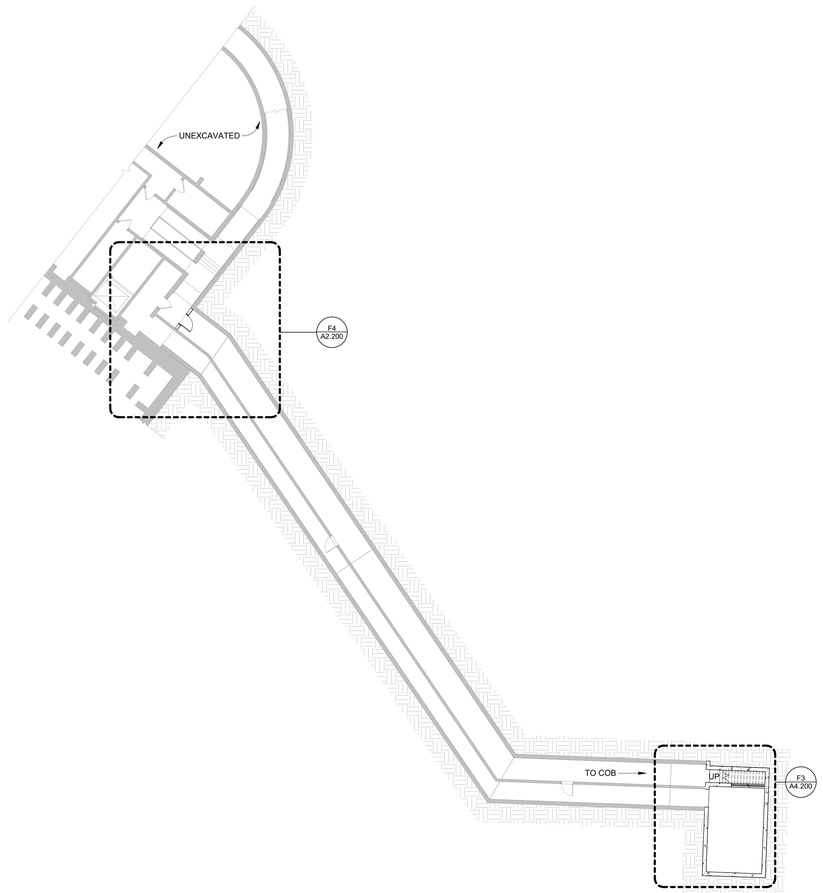
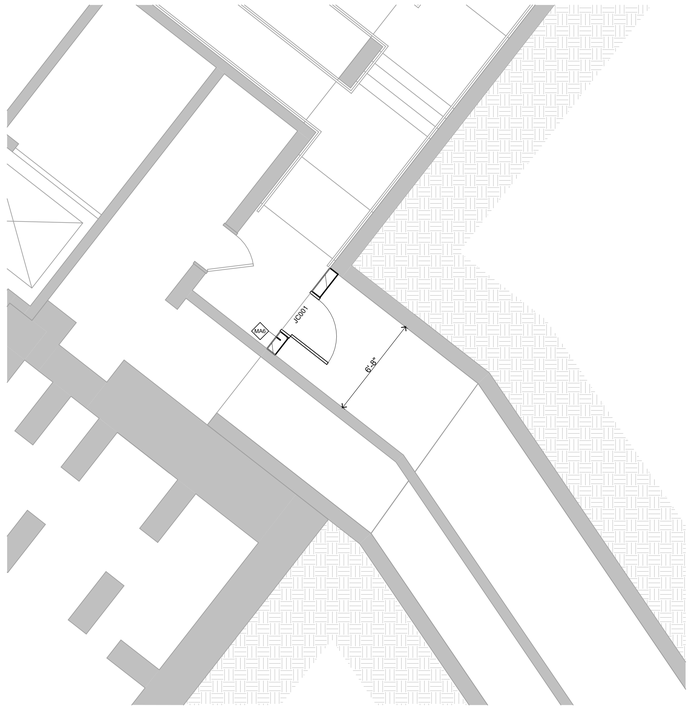


F1 JC - LEVEL BASEMENT - FLOOR PLAN
1/16" = 1'-0"
0 12' 24'



F4 JC - LEVEL BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"
0 3' 6'

FLOOR PLAN GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL, SEE WALL TYPES FOR ACTUAL THICKNESS.
2. ALL GWB / METAL STUD WALLS ARE TO BE 5 INCHES THICK UNLESS OTHERWISE NOTED.
3. ALL CONCRETE BLOCK WALLS ARE TO BE 8 INCHES THICK UNLESS OTHERWISE NOTED.
4. COORDINATE SIZE AND LOCATION OF ALL DUCT AND SHAFT OPENINGS IN WALLS AND FLOORS W/ MECH. AND ELEC. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS. SEE LINTEL SCHEDULE.
5. SET FLOOR DRAINS 3/4" BELOW FINISHED CONCRETE FLOORS UNLESS OTHERWISE NOTED. PROVIDE CONSISTENT SLOPE FROM WALL TO DRAIN BY SLOPING CONCRETE, MIN. 1/4" PER FOOT.
6. VERIFY LOCATION, SIZE AND QUANTITY OF ALL EQUIPMENT PADS WITH MECHANICAL AND ELECTRICAL.
7. ALL DOOR / SIDELITE OPENINGS TO BEGIN 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
8. ALL GWB / METAL STUD WALLS ARE CENTERED ON GRID UNLESS OTHERWISE NOTED.
9. FIRE RATED WALLS ARE INDICATED ON CODE PLANS.

FLOOR PLAN KEY NOTES:

01. STEEL PIPE BOLLARD - SEE DETAIL
02. CABINET UNIT HEATER. SEE DETAIL __ SEE MECH. FOR SPECIFICATIONS. COORDINATE LOCATION WITH MECHANICAL
03. CARD READER - SEE ELECTRICAL
04. STEEL PIPE RAIL / RAILING, FIELD PAINTED
05. PROVIDE AND INSTALL ONE 4'-0" x 8'-0" FIRE-RATED PLYWOOD BACKBOARD. SECURELY FASTEN TO WALL STRUCTURE. LOCATE IN A SERVICABLE LOCATION FOR MOUNTING A 3'-0" X 2'-0" COMMSCOPE CABINET. COORDINATE EXACT HEIGHT AND LOCATION WITH OWNER PRIOR TO INSTALLATION.
06. INTAKE HOOD - SEE MECHANICAL
07. RELIEF HOOD - SEE MECHANICAL
08. TUNNEL-ACCESS DOOR
09. BENCH

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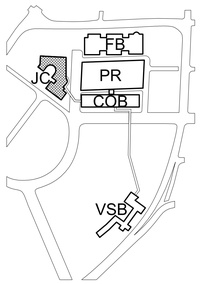

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

JC - LEVEL BASEMENT - FLOOR PLAN

Scale: As indicated

A2.200

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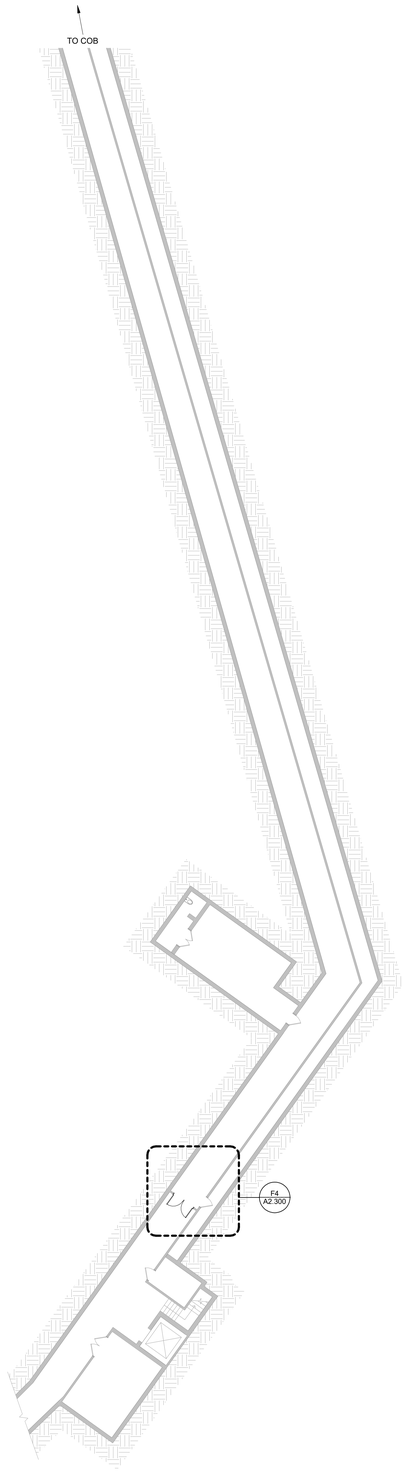
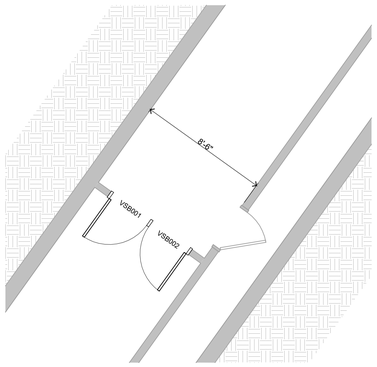


F1 VSB - LEVEL BASEMENT - FLOOR PLAN
1/16" = 1'-0"
0 12' 24'



F4 VSB - LEVEL BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"
0 3' 6'

FLOOR PLAN GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL, SEE WALL TYPES FOR ACTUAL THICKNESS.
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FLOOR PLAN KEY NOTES:

01 STEEL PIPE BOLLARD - SEE DETAIL

02 CABINET UNIT HEATER. SEE DETAIL __. SEE MECH. FOR SPECIFICATIONS, COORDINATE LOCATION WITH MECHANICAL

03 CARD READER - SEE ELECTRICAL

04 STEEL PIPE RAIL / RAILING, FIELD PAINTED

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06 INTAKE HOOD - SEE MECHANICAL

07 RELIEF HOOD - SEE MECHANICAL

08 TUNNEL-ACCESS DOOR

09 BENCH

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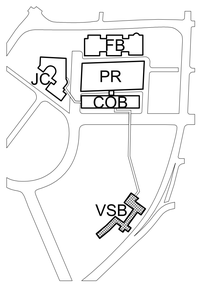

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

VSB - LEVEL BASEMENT - FLOOR PLAN

Scale: As Indicated

DESIGN DEVELOPMENT ESTIMATE SET
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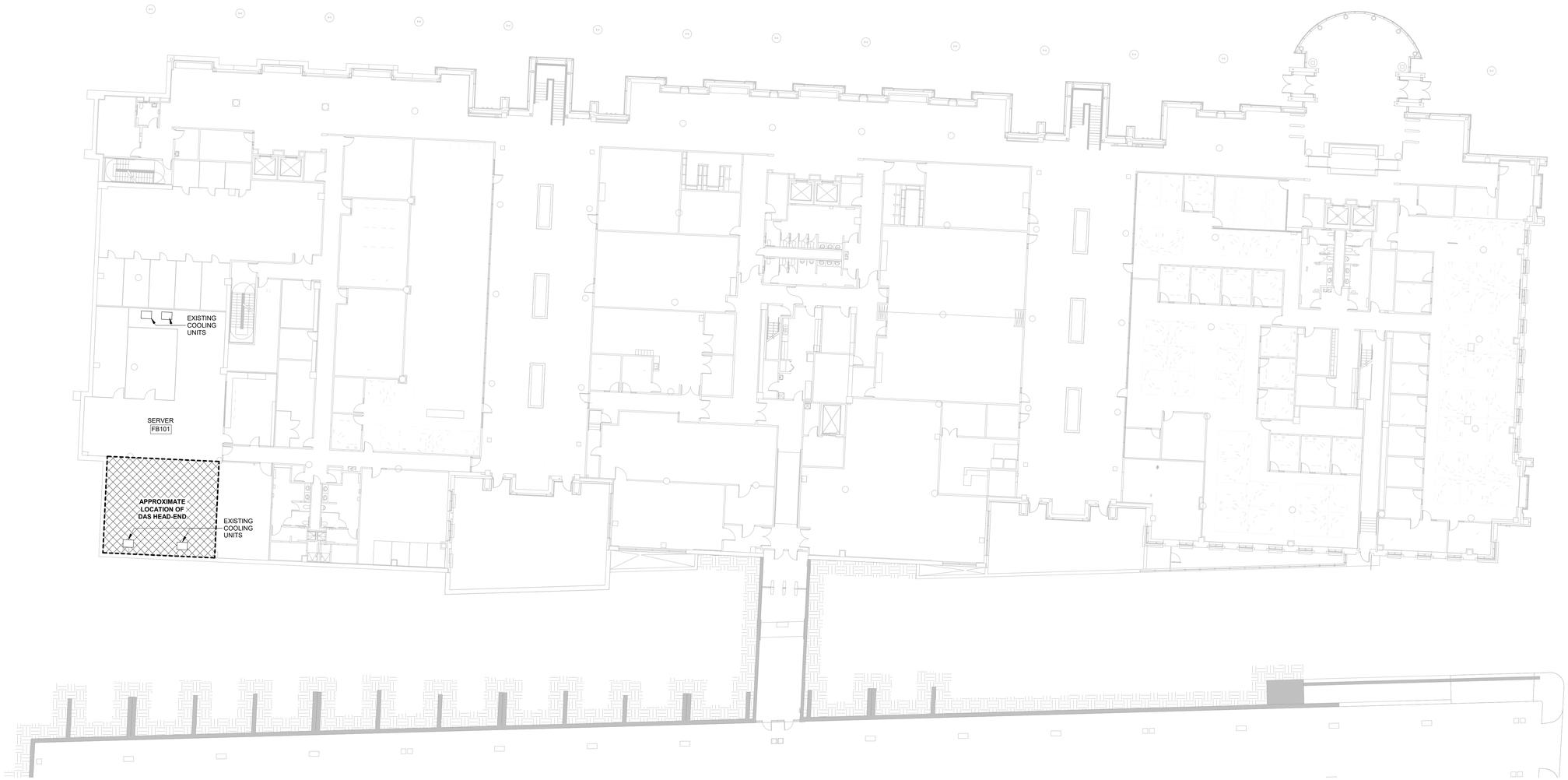

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F1 FLOOR PLAN - LEVEL BASEMENT
1/16" = 1'-0"
0 12' 24'

FLOOR PLAN GENERAL NOTES

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06 INTAKE HOOD - SEE MECHANICAL

07 RELIEF HOOD - SEE MECHANICAL

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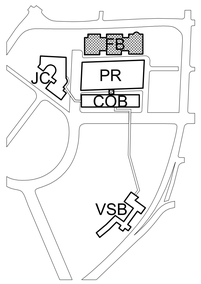

KEY PLAN

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW
North

FB - LEVEL BASEMENT - FLOOR PLAN

Scale: As Indicated

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ROOM FINISH SCHEDULE

ROOM NO	ROOM NAME	FLOOR	BASE	N WALL - TYP MATL	N WALL - TYP FIN	E WALL MATL	E WALL FIN	S WALL MATL	S WALL FIN	W WALL MATL	W WALL FIN	REMARKS
PR003	IT	EXIST CONC	EXIST	CMU	PT-6A	EXIST CONC	PT-6A	EXIST CONC	PT-6A	EXIST CONC	PT-6A	
FB101	SERVER	EXIST	EXIST	EXIST	PT-6A	EXIST	PT-6A	EXIST	PT-6A	EXIST	PT-6A	
PR001	STOR	EXIST CONC	EXIST	CMU	PT-6A	EXIST CONC	PT-6A	CMU	PT-6A	EXIST / CMU	PT-6A	
PR002	ELEC	EXIST CONC	EXIST	CMU	PT-6A	EXIST CONC	PT-6A	CMU	PT-6A	CMU	PT-6A	
PR003	IT	EXIST CONC	EXIST	CMU	PT-6A	EXIST CONC	PT-6A	EXIST CONC	PT-6A	EXIST CONC	PT-6A	
PR101	STOR	EXIST CONC	EXIST	CMU	PT-6A	EXIST CONC	PT-6A	CMU	PT-6A	EXIST / CMU	PT-6A	
VB001	MECH	CONC	--	CONC	PT-6A	CONC	PT-6A	CONC	PT-6A	CONC	PT-6A	
JC001	MECH	CONC	--	CONC	PT-6A	EXIST	PT-6A	CONC	PT-6A	CONC	PT-6A	

ROOM FINISH SCHEDULE GENERAL NOTES

1. IF ALL WALLS IN ROOM HAVE THE SAME FINISH, THE "N WALL-TYP" COLUMN WILL BE USED.
2. DISCREPANCIES BETWEEN THE ROOM FINISH SCHEDULE AND DRAWINGS SHALL BE REPORTED TO THE ARCHITECT FOR FINISH DETERMINATION.
3. ON WALLS WHICH ARE COVERED WITH MILLWORK, A FINISH SHALL NOT BE APPLIED TO THE WALL BEHIND. CONCRETE BLOCK BEHIND MILLWORK AND MARKERBOARDS TO BE TOOLED.
4. REFER TO INTERIOR MATERIAL FINISH / COLOR SCHEDULE FOR SPECIFIC FINISH TYPES AND COLORS.
5. ALL ELEVATOR FINISHES, OTHER THAN FLOOR MATERIAL, ARE SPECIFIED TO BE PROVIDED BY ELEVATOR MANUFACTURER.
6. ELEVATOR FLOOR FINISH TO BE _____.
7. PROVIDE VINYL BASE AT CASEWORK.

DOOR / OPENING SCHEDULE

DOOR NO	DOOR / OPENING TYPE	QTY	WIDTH	HEIGHT	MATL	LABEL/ RATING	OVERALL WIDTH	FRAME TYPE	DEPTH	MATL	GL	MOUNTING CONDITIONS HEAD	JAMB	SILL	HDW GRP	REMARKS
PR001	F	1	3'-0"	7'-0"	HM	--	3'-4"	FR 1	--	HM	--					
PR002	F	1	3'-0"	7'-0"	HM	--	3'-4"	FR 1	--	HM	--					
PR003	F	1	3'-0"	7'-0"	HM	--	3'-4"	FR 1	--	HM	--					1
PR101	F	1	3'-0"	7'-0"	HM	--	3'-4"	FR 1	--	HM	--					
VSB001	F	1	3'-0"	7'-0"	HM	--	3'-4"	FR 1	--	HM	--					
VSB002	F	1	3'-0"	7'-0"	HM	--	3'-4"	FR 1	--	HM	--					
JC001	F	1	3'-0"	7'-0"	HM	--	3'-4"	FR 1	--	HM	--					

DOOR SCHEDULE GENERAL NOTES

1. ALL DOORS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED.
2. FOR FRAME DEPTH, ONLY EXCEPTIONS TO THE FOLLOWING TABLE ARE SCHEDULED:

   GYPSUM BOARD PARTITIONS: THROAT OF FRAME TO MATCH WALL THICKNESS.

   MASONRY PARTITIONS:

   4" WALL: 3 3/4" FRAME
   6" WALL: 5 3/4" FRAME
   8" AND GREATER WALL: 7 3/4" FRAME
   EXTERIOR MASONRY WALLS: 11 3/4" FRAME

   FRAME DEPTHS ARE SCHEDULED IN NOMINAL DIMENSIONS. SEE FRAME / DOOR TYPES FOR CORRESPONDING ACTUAL DIMENSIONS.
3. FOR GLASS TYPES, ONLY EXCEPTIONS TO THE FOLLOWING TABLE ARE SCHEDULED:

   INTERIOR NON RATED:

   CLEAR (SAFETY WHEN REQUIRED BY TABLE IN GLAZING SPECIFICATION.)

   INTERIOR AND EXTERIOR RATED:

   FIRE RATED

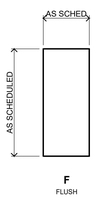
   EXTERIOR NON-RATED:

   CLEAR INSULATED (SAFETY INSULATED WHEN REQUIRED BY TABLE IN GLAZING SPECIFICATION.)
4. SEE DRAWING A2.901 FOR DOOR PANEL & HOLLOW METAL (HM) FRAME TYPES.
5. UNLESS OTHERWISE NOTED, FINISH PAINT NEW HOLLOW METAL (HM) FRAMES AS INDICATED PER THE MATERIAL FINISH SCHEDULE.
6. AT DOOR SCHEDULE, LABEL DESIGNATION "45/20" INDICATES:

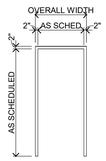
   FOR ALL OPENINGS WITH SIDE LITES AND SCHEDULED TO BE RATED FOR 20 MINUTES, THE DOOR AND ANY GLASS WITHIN THE DOOR IS TO BE RATED FOR 20 MINUTES. THE FRAME AND ADJACENT SIDELITE(S) GLASS AND FRAME IS TO BE RATED FOR 45 MINUTES."

DOOR SCHEDULE REMARKS

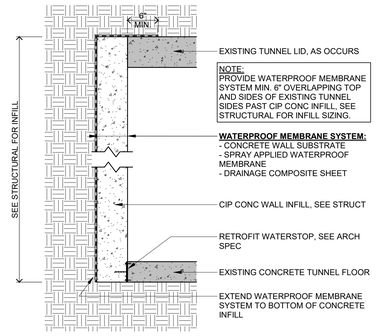
1. CARD READER, SEE ELECTRICAL.
2.
3.



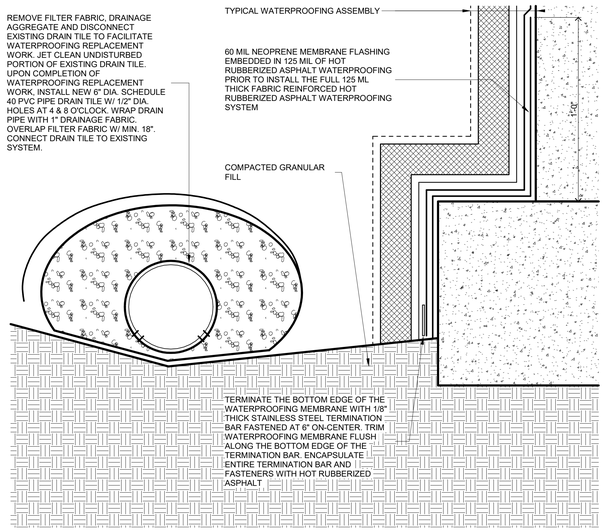
DOOR PANEL TYPES



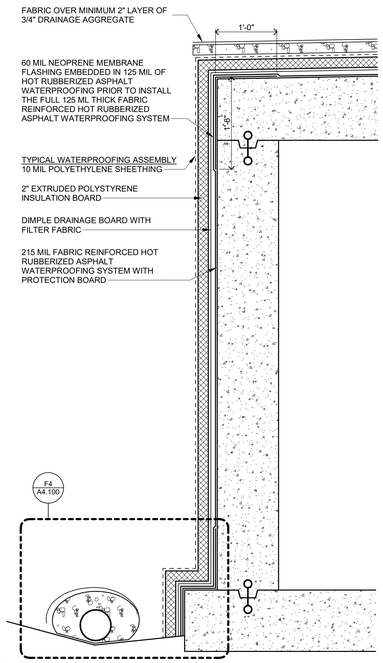
HOLLOW METAL (HM) FRAME TYPES



C7 TYPICAL WATERPROOFING SECTION AT CONCRETE CAP
1" = 1'-0"



F4 WATERPROOFING TERMINATION AND DRAIN TILE
3" = 1'-0"



F7 TYPICAL WATERPROOFING ASSEMBLY
1" = 1'-0"

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ROOM FINISH & OPENING SCHEDULES

Scale: As indicated

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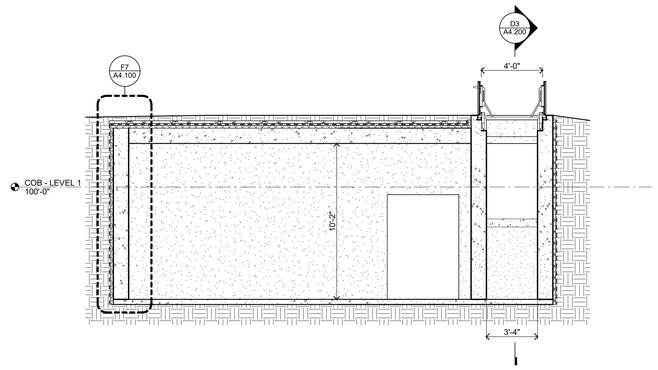
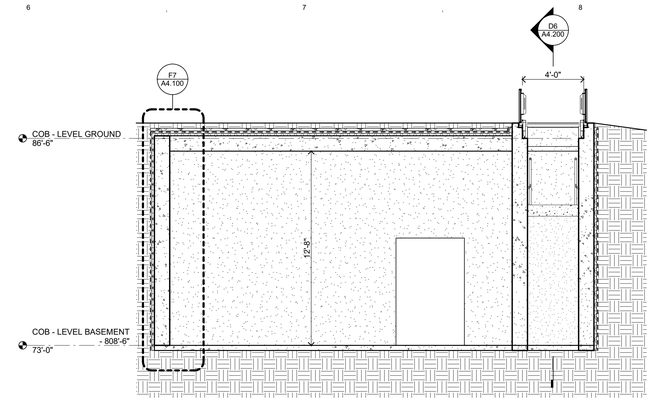
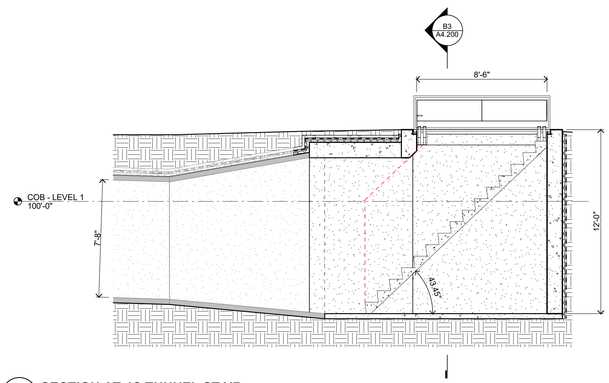


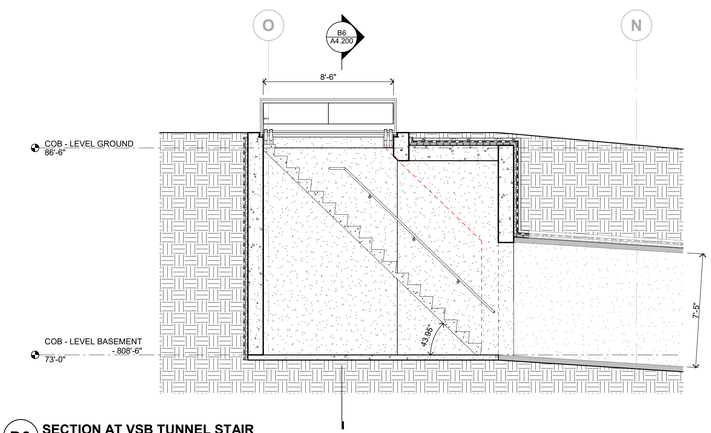
B3 CROSS SECTION AT JC TUNNEL STAIR
1/4" = 1'-0"
0 3' 6'



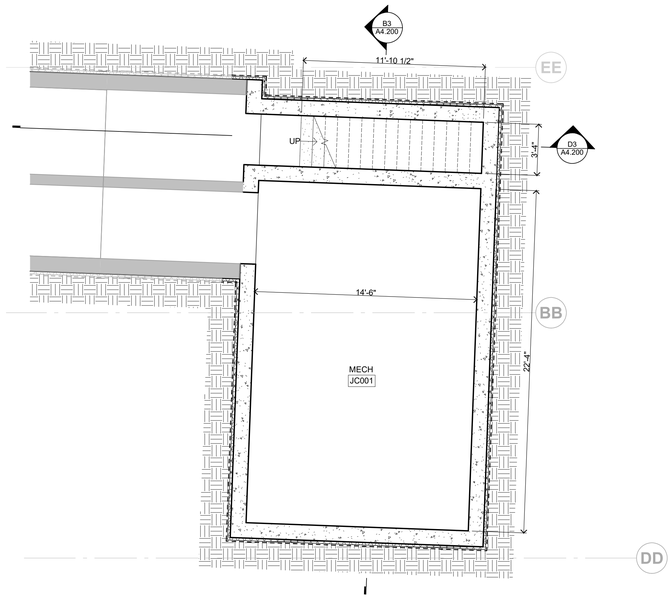
B6 CROSS SECTION AT VSB TUNNEL STAIR
1/4" = 1'-0"
0 3' 6'



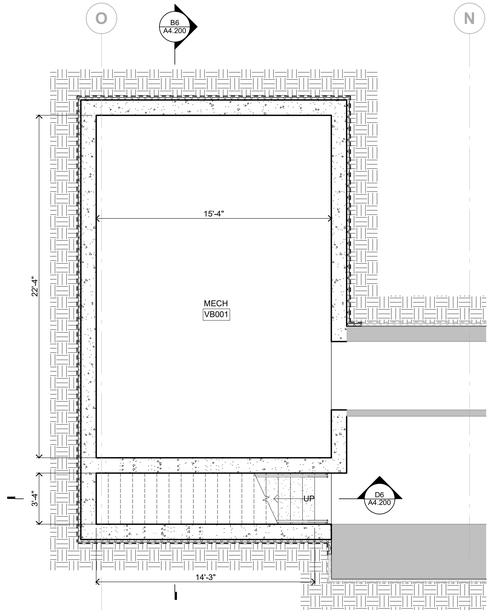
D3 SECTION AT JC TUNNEL STAIR
1/4" = 1'-0"
0 3' 6'



D6 SECTION AT VSB TUNNEL STAIR
1/4" = 1'-0"
0 3' 6'



F3 JC TUNNEL STAIR - LEVEL BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"
0 3' 6'



F6 VSB TUNNEL STAIR - LEVEL BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"
0 3' 6'

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
ST PAUL, MN 55155

WOLD ARCHITECTS AND ENGINEERS
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BKBM Project No. 24394.00

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW

VERTICAL CIRCULATION - PLANS & SECTIONS

Scale: 1/4" = 1'-0"

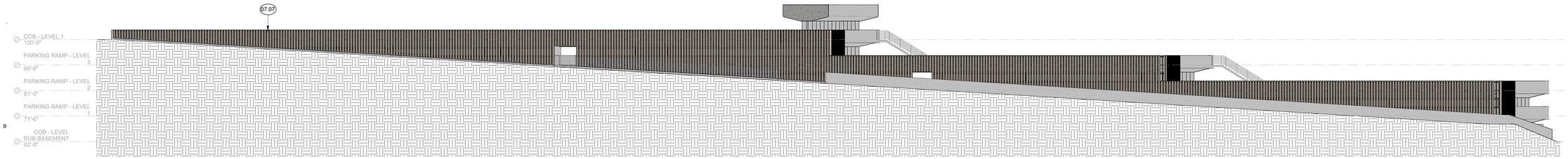
A4.200

A

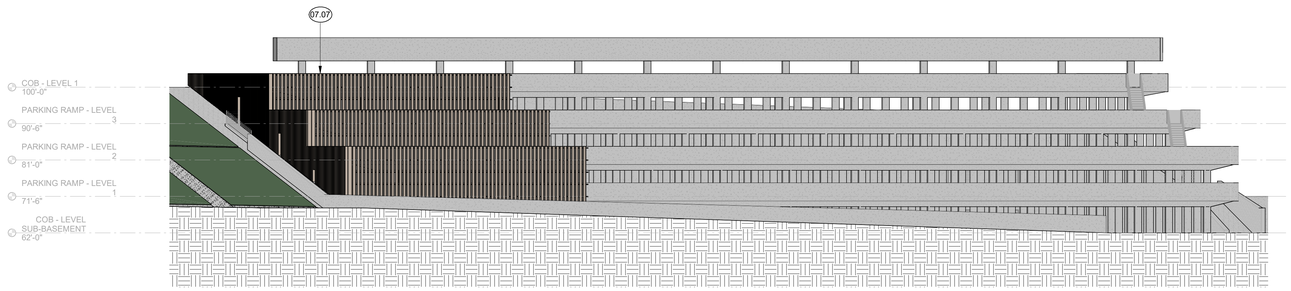
Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

MN

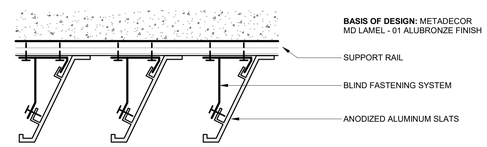
MATERIALS KEY	
KEY	MATERIAL
07.07	ANODIZED ALUMINUM SCREENING SYSTEM AND SUPPORT RAILS



B1 NORTH ELEVATION
1/16" = 1'-0"
0 12' 24'



D1 WEST ELEVATION
1/16" = 1'-0"
0 12' 24'



D6 ANODIZED ALUMINUM SCREENING SYSTEM
1 1/2" = 1'-0"
0 1/2' 1'

CENTENNIAL OFFICE BUILDING DEMOLITION

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BKBM Project No. 24394.00

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/2/25
Drawn: KS
Check: JW

EXTERIOR ELEVATIONS

Scale: As indicated

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

A5.101

A

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MN

STRUCTURAL SYMBOLS

DIMENSIONAL LUMBER
WOOD BLOCKING
STEEL OR METAL
CONCRETE BLOCK - HOLLOW OR SOLID
FACE OR COMMON BRICK
RIGID INSULATION
STRUCTURAL INSULATED PANELS (SIPs)
SHEATHING
EARTH, FILL OR BACKFILL
SAND
GROUT OR CONCRETE TOPPING
CONCRETE
EXISTING ELEMENT - MATERIAL VARIES
AREA DESIGNED FOR SOLAR PANEL SURCHARGE LOAD
SNOW DRIFT SURCHARGE LOAD
TOP RETURN WELD AND LENGTH
RETURN WELD SYMBOL
BOTTOM RETURN WELD AND LENGTH
SECTION NUMBER
DRAWING NUMBER WHERE SECTION IS FOUND
DETAIL NUMBER
DRAWING NUMBER WHERE DETAIL IS FOUND
ELEVATION NUMBER
DRAWING NUMBER WHERE ELEVATION IS FOUND

BP1 BEARING PLATE MARK - SEE SCHEDULE
CJ CMU CONTROL JOINT
SC1 CC1 PC1 COLUMN MARK - STEEL, CONCRETE, OR PRECAST - SEE SCHEDULE
XXX PLF DESIGN DIAPHRAGM SHEAR FORCE TO BE RESISTED BY PRECAST WALL PANEL OR COLD-FORMED STEEL SHEAR WALL. SEE PLAN NOTES FOR LOAD TYPE.
DP1 DRILLED PIER MARK - SEE SCHEDULE
EP1 EMBED PLATE MARK - SEE SCHEDULE
CF4.0 FOOTING MARK FOR COLUMNS - SEE SCHEDULE
WF2.0 FOOTING MARK FOR WALLS - SEE SCHEDULE
1 KEY NOTES - SPECIFIC NOTES KEYED TO AN ELEMENT OR AREA, SEE SCHEDULE
ML1 SL1 CL1 LINTEL MARK - MASONRY, STEEL, OR CONCRETE - SEE SCHEDULE
MP1 CP1 PIER MARK - MASONRY OR CONCRETE - SEE SCHEDULE
PC1 PILE CAP MARK - SEE SCHEDULE
1 REVISION MARK - INDICATES A CHANGE AFTER CONTRACT DOCUMENT ISSUE
SW1 SHEAR WALL MARK - SEE SCHEDULE
SR1 STUD RAIL MARK - SEE SCHEDULE
MW1 CW1 WALL REINFORCING MARK - MASONRY OR CONCRETE - SEE SCHEDULE
WW1 STRUCTURAL WOOD WALL MARK - SEE SCHEDULE
WW 6 16 NON-TYPICAL STRUCTURAL WOOD WALL MARK
A GRID BUBBLE

MATCHLINE
EXISTING BUILDING LINE
HIDDEN EXISTING BUILDING LINE
BREAK LINE
DIRECTION OF SLOPE
BEAM OR COLUMN SPLICE
BEAM CONTINUOUS OVER SUPPORT
MOMENT CONNECTION FOR BEAM
LOCATION OF BEAM BRACE
SPAN OF STRUCTURAL ELEMENT
HIGH END OF BRACE
LOW END OF BRACE
LOCATION OF BRACED FRAME
SLAB REINFORCING - TOP BARS
SLAB REINFORCING - BOTTOM BARS
DIMENSION LINES
MATERIAL LIMIT LINES
MATERIAL NOT INCLUDED IN LIMIT LINES
FOOTING STEP
VIF TOP OF WALL STEP
℄ CENTERLINE
PIPE
TOP OF SLAB ELEVATION CHANGE (STEPPED OR SLOPED)
TOP OR BOTTOM OF SLAB ELEVATION CHANGE (STEPPED)

STRUCTURAL ABBREVIATIONS

#	Pound or Number	DWL(S)	Dowel(s)	KIP	1 Kip = 1,000 lbs	PLF	Pound per Linear Foot
&	And	E	East	KLF	Kips per Linear Foot	PSF	Pound per Square Foot
/	Per	EA	Each	KSF	Kips per Square Foot	PSI	Pound per Square Inch
@	At	EF	Each Face	KSI	Kips per Square Inch	PSL	Parallel Strand Lumber
Ø	Diameter	EJ	Expansion Joint	L	Angle	PT	Post-Tensioned/Tensioning
AB	Anchor Bolt	EL	Elevation	LL	Live Load	REBAR	Reinforcing Bar
ADDN'L	Additional	ELEC	Electrical	LLH	Long Leg Horizontal	REINF	Reinforcing or Reinforce
AFF	Above Finished Floor	ELEV	Elevator	LLV	Long Leg Vertical	REQ'D	Required
ALT	Alternate	EOR	Engineer of Record	LSH	Long Side Horizontal	RXN	Reaction
ARCH	Architect or Architectural	EQ	Equal	LSL	Laminated Strand Lumber	S	South
B/	Bottom of Element	EW	Each Way	LSV	Long Side Vertical	SCH	Schedule
BB	Bond Beam	E-W	East - West	LVL	Laminated Veneer Lumber	SHT	Sheet
BLDG	Building	EXP	Expansion	LWC	Light Weight Concrete	SIM	Similar
BM	Beam	EXT	Exterior	M	Moment	SIPs	Structural Insulated Panels
BOT	Bottom	FDN	Foundation	MAS	Masonry	SL	Snow Load
BP	Bearing Plate or Bent Plate	Fe	Effective Force (P.T.)	MAT	Material	SOG	Slab on Grade
BRG	Bearing	FFE	Finished Floor Elevation	MAX	Maximum	SPEC	Specification
BSMT	Basement	FLG	Flange	MC	Miscellaneous Channel	SPA	Spaces
BTWN	Between	FLR	Floor	MECH	Mechanical	SQ	Square
C	Channel	FRT	Fire Retardant Treated	MEP	Mechanical, Electrical, and Plumbing	STD	Standard
C&C	Components and Cladding	FS	Far Side			STL	Steel
CANT	Cantilever	FT	Foot	MEZZ	Mezzanine	STRUCT	Structure
CFS	Cold-Formed Steel	FTG	Footing	MFG	Manufacturer or Manufacturing	T&B	Top and Bottom
CGS	Center of Gravity of Steel	FV	Field Verify	MIN	Minimum	T/	Top of Element
CIP	Cast in Place	GA	Gauge	MISC	Miscellaneous	TEMP	Temporary or Temperature
CJ	Control Joint	GALV	Galvanized	MO	Masonry Opening	THRU	Through
CJP	Complete Joint Penetration	GB	Grade Beam	MPH	Miles per Hour	TOB	Top of Beam
CL	Center Line	GC	General Contractor	N	North	TOF	Top of Footing
CLR	Clear	GLU-LAM	Glue Laminated Wood	NO	Number	TOS	Top of Slab
CMU	Concrete Masonry Unit	GSN	General Structural Notes	NOM	Nominal	TYP	Typical
CNXN	Connection	H	H Shaped Column	N-S	North - South	UNO	Unless Noted Otherwise
COL	Column	HAS	Headed Anchor Stud	NS	Near Side	V	Shear
COMP	Composite	HDG	Hot-Dip Galvanized	NTS	Not To Scale	VER	Verify
CONC	Concrete	HK	Hook	NWC	Normal Weight Concrete	VERT	Vertical
CONN	Connection	HORIZ	Horizontal	OC	On Center	VIF	Verify in Field
CONST	Construction	HS	Headed Stud(s)	OD	Outside Diameter	W	West or Wide Flange
CONT	Continuous	HSS	Hollow Structural Section	OF	Outside Face	W/	With
CTR	Center	ID	Inside Diameter	OPNG	Opening	W/O	Without
CTR'D	Centered	IE	Invert Elevation	OPP	Opposite	WD	Wood
DBA	Deformed Bar Anchor	IF	Inside Face	PAF	Power Actuated Fasteners	WL	Wind Load
DEFL	Deflection	IN	Inch	PC	Precast	WND	Window
DIA	Diameter	INFO	Information	PCF	Pounds per Cubic Foot	WP	Workpoint
DIAG	Diagonal	INSUL	Insulation	PDF	Power Driven Fasteners	WS	Wall Step
DIM	Dimension	INT	Interior	PERP	Perpendicular	WSP	Wood Structural Panel
DL	Dead Load	JST(S)	Joist(s)	PJP	Partial Joint Penetration	WT	Weight
DTL	Detail	JT	Joint	PL	Plate	WWF	Welded Wire Fabric
DWG(S)	Drawing(s)	K	Kips				

GENERAL STRUCTURAL NOTES

These notes are provided for typical conditions. See plans and details for specific requirements in other areas.

DESIGN DATA

DESIGN CODES AND STANDARDS
International Building Code (IBC) 2018 – As amended by the *Minnesota State Building Code 2020*
American Society of Civil Engineers (ASCE) 7-16 – *Minimum Design Loads and Associated Criteria for Buildings and Other Structures*
American Concrete Institute (ACI) 318-14 – *Building Code Requirements for Structural Concrete*

DESIGN LOADS
Live Loads:
Vehicle Barrier: 6000 # concentrated load
Wind Loads:
ASCE 7 Directional Procedure Parameters:
Risk Category II
Exposure: C
Basic design wind speed: 109 MPH (3 second gust)
Allowable stress design wind speed: 85 MPH
Wind Directionality Factor (K_d): 0.85
Topographic Factor (K_{zt}): 1.0
Ground Elevation Factor (K_e): 0.97
Internal Pressure Coefficient (GC_{pi}): ±0.18
Seismic Loads
Seismic design not required per MSBC 1305.0011 Subparagraph 4.

GENERAL

DEFERRED STRUCTURAL SUBMITTALS
Deferred submittals are those portions of the design which are not submitted at the time of permit application but are to be submitted to the building official prior to installation. Deferred submittals are governed by Minnesota State Building Code section 1300.0130. The following items are to be issued as deferred submittals:
Precast or steel stairs
For all deferred structural submittals, include design and calculations prepared and certified by a Professional Engineer licensed in the state in which the project is located as part of the submittal documents. See general structural notes for additional shop drawing requirements. Provide deferred submittals a minimum of 30 days prior to installation, and after contractor's review, to the architect and structural engineer for review for general conformance to the contract documents. After architect and structural engineer's review, submit to building official for review and approval. Do not install deferred submittal items until submittal documents have been reviewed and approved by the building official.

Refer to architectural, civil, mechanical, and electrical drawings for additional deferred submittal components.

EXISTING CONDITIONS
Verify all dimensions, elevations, and details of existing structure where they affect this construction.
Notify engineer if there are any deviations from the contract documents.
Obtain prior approval from Structural Engineer before cutting openings or recesses or making other modifications to existing structure not shown on structural drawings.

COORDINATION – ARCHITECTURAL, MECHANICAL AND ELECTRICAL ITEMS
Verify all depressions, dimensions, elevations, openings, equipment supports, and details and coordinate by reference to architectural, mechanical, and electrical drawings.
At non-bearing masonry walls shown on architectural drawings, see architectural drawings for top of wall bracing.

OPENINGS
Verify size and location of all openings with architectural, mechanical, and electrical drawings. Structural drawings do not necessarily show all openings.
Place openings in floor and roof not shown on structural drawings between structural members. Notify Structural Engineer before openings larger than 12" in any dimension are added. See specific material sections for required clear spacing between openings.
Obtain prior approval from Structural Engineer before making any openings through structural members if the openings are not shown on the structural drawings..

FOUNDATIONS AND SUBGRADE

GEOTECHNICAL INFORMATION
The foundation design is based on the recommendations contained in Geotechnical Report number __ prepared by __ and dated ___. Allowable foundation pressures are to be verified in field by a licensed professional geotechnical engineer. Foundation design requires the use of __ backfill outlined in the geotechnical report. Foundation design parameters are as follows:
Net soil bearing capacity
Strip footings: ___ psf
Spread footings: ___ psf
Lateral Soil Pressure (equivalent fluid pressure)
Lateral pressure on foundation walls: __ psf/ft
Lateral pressure on cantilever retaining walls: __ psf/ft
Passive soil pressure: __ psf/ft
Coefficient of friction: 0.__

BACKFILLING
Backfill and materials behind foundation and retaining walls shall be as outlined in the Geotechnical Report.
Do not backfill or compact earth against walls retaining earth until supporting slabs have reached 75% of their design strength or adequate bracing is in place. Provide bracing drawings designed and certified by an Engineer licensed in the state in which the project is located for record only.
Backfill evenly on both sides of foundation walls to prevent overturning or lateral wall movement.
Compaction of all fill and backfill shall meet or exceed the following percentages of Standard Proctor Density (ASTM D698):
98 percent below footings
95 percent below building floor slabs
95 percent for backfill
The sand cushion under building floor slabs shall be clean, fine-grained material with at least ten to thirty percent of the particles passing a number 100 sieve, but not contaminated clay, silt, or organic material. The material shall meet the gradation requirements of ASTM D448 gradation number 10 as indicated below:

Sieve Size	Percent Passing
3/8"	100
#4	85-100
#100	10-30

CONCRETE

CONCRETE MATERIAL PROPERTIES
Concrete (F'_c) (28-day compressive strength)
3,000 psi for footings
Max w/c ratio = 0.62; Max aggregate = 1½" Class 1S

4,000 psi for interior slab on grade
Synthetic micro fiber reinforcing
Max w/c ratio = 0.45; Max aggregate = ¾" Class 2S
Well-graded to achieve 0.05% shrinkage limit per ASTM C157.

5,000 psi for exterior concrete
Max w/c ratio = 0.40; Max aggregate = ¾" Class 5S
Air entrainment (ASTM C260) 5% ± 1½%

4,000 psi unless noted
Max w/c ratio = 0.52; Max aggregate = ¾" Class 1S

5,000 psi for non-shrink grout (ASTM C1107)

Cement:
Portland Cement (ASTM C150, Type I) or Blended Hydraulic Cement (ASTM C595, Type IL)

Substitution of fly ash (ASTM C618, Class C or F) for Portland cement shall not exceed 25% by weight for exterior concrete.

Maximum 5" slump at point of discharge for concrete without superplasticizer.
Maximum 9" slump for concrete with superplasticizer.

Reinforcing Steel (Fy)
60,000 psi (A615, Grade 60)

Synthetic Micro Fiber Reinforcing: Fibrillated or Monofilament
Fibrillated: 100% virgin polyolefin (polypropylene or polyethylene), graded or minimum ½" uniform length, ICC approved, complying with ASTM D7508 for use in producing Type III Synthetic Fiber-Reinforced Concrete meeting the requirements of ASTM C1116. Fibermesh 300 – Propex, Grace Fibers – W.R. Grace, or approved equal. Dosage: 1.5 lbs per cubic yard.

CONCRETE GENERAL
Perform work in accordance with ACI 301, ACI 318, and ACI 347.
Construct formwork to maintain tolerances given in ACI 117.
Provide ¾" chamfer on all exposed corners of concrete.
Submit concrete mix designs and supporting data for each mix used.
Do not use chemical admixtures that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.
Do not place concrete in rain, sleet or snow unless exposed concrete surface is protected from moisture.
Do not place concrete on frozen subgrade. Remove standing water prior to placement of concrete.
Concrete placed during cold weather shall conform to the requirements of ACI 306.1 and shall be placed following the recommended practices of ACI 306R.
Apply recommended practices of ACI 305R when concreting during hot weather.
Furnish delivery tickets with each load of concrete delivered to the project. Indicate on the ticket the amount of water that can be added at the site without exceeding the design mix proportions.
Consolidate concrete using internal vibrators.
Protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury immediately after placement according to the requirements of ACI 308.1.
Waterstops shall be a flexible strip product that swells upon contact with water, Waterstop-RX by Colloid Environmental Technologies, Hydrotite by Greenstreak, or approved equal.

CONCRETE TESTING AND INSPECTION
Owner will provide the following tests and inspections:
Provide one set of four 6x12 cylinders or five 4x8 cylinders for compressive strength tests (ASTM C39) for each day's pour between one and 25 cubic yards. Provide one additional set of four 6x12 or five 4x8 cylinders for each additional 50 cubic yards of day's pour exceeding 25 cubic yards.
Test concrete slump (ASTM C143), air entrainment (ASTM C231), and temperature (ASTM C1064) for each set of compression test specimens.
Verify total water added to mix on site does not exceed that allowed by concrete mix design.
Observe preparation for and placement of all concrete, excluding slabs on grade and strip footings without transverse reinforcement. Verify reinforcement remains at proper location.
Observe protection and curing methods for all concrete, excluding slabs on grade and strip footings without transverse reinforcement.
Observe all bolts installed in concrete. Verify specified size, type, spacing, configuration, embedment, and quantity.
Inspect reinforcement in all cast in place concrete, excluding slabs on grade and strip footings without transverse reinforcement. Verify the following:
- Reinforcing bar grade, size, and placement.
- Reinforcing bars are free of oil, dirt, excessive rust, and damage.
- Reinforcing bars are adequately tied, chaired, and supported to prevent displacement during concrete placement.
- Proper chair and tie wire materials are used.
- Proper clear distances between bars and to surfaces of concrete.
- Bar laps for proper length and stagger.
- Bar bends for minimum diameter, slope, and length.
- Mechanical splices are placed in accordance with the plans, specifications and reviewed shop drawings.
- Epoxy coating is presented at locations noted in the project documents, including tie wires, chairs, bolsters, etc. Verify coating damaged is repaired in accordance with the contract requirements.

CONCRETE REINFORCING GENERAL
Detail, fabricate, and place reinforcing in accordance with CRSI "Manual of Standard Practice", latest edition.
Provide standard hooks where hook lengths are not specified.
See Class 'A' and 'B' Tension Lap Splice Tables on sheet S2.001 for required reinforcing splice lengths.
Provide epoxy coated reinforcing for all concrete exposed to weather such as retaining walls, and exterior walls, piers, columns, slabs, and paving. Epoxy coated reinforcing is not required for building foundation walls unless specifically noted.
Repair coating damage due to heating, bending, cutting, welding or installation of mechanical connections, in accordance with ASTM D3963 and patching material manufacturer's recommendations.
Do not use epoxy-coated bars with damage, repaired and unrepaired, exceeding 2 percent of the surface area of each bar.
Support slab reinforcing for its entire length and independent of beam steel.
Fabricate and place reinforcing to maintain tolerances given in ACI 117.
Do not weld reinforcing.
Submit shop drawings following the recommended practices of ACI 315 indicating reinforcing size, length, location, shape, and spacing of bars.

CONCRETE COVER ON REINFORCING
Footings: 3" clear bottom and sides
2" clear top
Walls: 1 1/2" clear outside face and surfaces exposed to earth or weather (2" for #6 bars or larger)
3/4" clear inside face

FOOTINGS
For wall footings, provide 32 bar diameter lap at reinforcing splices and full crossing lap at intersections.
Center wall footings under walls.
Footing elevations shown on plan are to top of footing (TOF).
Hook wall at 3" clear bottom of footing.

CONCRETE SLABS ON GRADE
Verify subgrade is level and compaction tests have been performed and are accepted prior to placing slab .
See details 6/SS.201 for control/construction joints.
If control joints are not shown on plan, place control/construction joints at columns and provide additional joints to meet the spacings indicated below:
Interior slabs, 12'-0" oc maximum
"L" shaped panels and rectangular panels (with length to width ratio greater than 1.5) are not allowed.
All control/construction joints must be continuous and not staggered or offset. Use a "Soff Cut" saw to cut to a depth of 1 1/4" immediately after final finishing. Use a conventional saw to cut to a depth of one-fourth the slab thickness or as shown on the drawings. Complete sawing within 12 hours of placement.
See Concrete Material Properties section for micro fiber reinforcing options where micro fiber reinforcing is noted on plan.

CONCRETE SUPPORTED SLABS
Extend reinforcing to 2" clear slab edges.
Provide sleeves through slabs for all penetrations. Verify exact location with mechanical and electrical drawings. Spread reinforcing to provide proper concrete cover.
Contact structural EOR for additional slab reinforcing at slab openings larger than 12" and at reentrant corners.
Groups of sleeves shall be reinforced as a single slab opening unless clear spacing between sleeves exceeds 1.5 times the larger sleeve diameter.
Place construction joints in center 1/3 of span. Location is subject to Engineer's approval. Provide #4 x 3'-0" at 12"oc, center in slab.

POURED CONCRETE WALLS
Provide corner bars to match size and spacing of horizontal wall reinforcing at intersecting walls. Hook lengths to match horizontal bar lap lengths, see plan notes.
See detail 5/SS.201 for openings in walls up to 12' wide. All openings larger than 12" shall have:
1 - #4 x 4'-0" each face diagonal at each corner
1 - #5 each face, each side of opening, extend 2'-0" beyond opening
Maintain minimum 12" of wall above openings.
Groups of openings shall be reinforced as a single opening unless clear spacing between openings is at least 16".
Notify EOR of openings (or groups of openings) wider than 40" in concrete walls where not shown on structural drawings.

POST-INSTALLED ANCHORS
Post-Installed anchors and related materials shall be listed by one or more of the following agencies, as applicable:
- ICC Evaluation Service
- Underwriters Laboratories (UL) and/or Factory Mutual (FM)
- IAPMO Evaluation Service

Submit product data for proprietary materials, manufacturer's specifications (including finish or other materials), installation procedures, and test reports of ICC-ES, IAPMO, UL, and FM listings.
Anchors to be installed in strict accordance with manufacturer's printed instructions and, where required, requirements of the ICC-ES, IAPMO, UL, and FM Reports.

POST-INSTALLED ANCHORS TESTING AND INSPECTION
Owner will provide the following tests and inspections:
Continuous special inspection during installation to verify materials delivered to site comply with contract documents, bolt type and dimensions, concrete type and compressive strength, pre-drilled hole dimensions and cleaning, embedment, spacing, edge distances, slab thickness, tightening torque, and any other items requiring inspection by product's ICC approval report.

MASONRY

STRUCTURAL UNIT MASONRY LINTELS
See Non-Bearing Wall Lintel Schedule in architectural drawings for lintels in non-bearing masonry walls.

STRUCTURAL TESTING AND SPECIAL INSPECTION

INTENT AND CONDITIONS
Intent:
Define and coordinate structural testing and special inspection services.
Provide a greater level of confidence that the specified work is constructed in compliance with the contract documents in accordance with Chapter 17 the 2020 Minnesota Building Code which adopts and modifies the 2018 International Building Code (IBC).
Structural testing and special inspection services are intended to assist in determining probable compliance of the work with requirements specified. These services do not relieve the Contractor of responsibility for compliance with the requirements of the contract documents.

Conditions:
If inspection of a fabricator's work is required, the Owner's representative may require testing and inspection of the work at the plant, before shipment.
Owner and Architect reserve the right to reject material not complying with the Contract Documents.
Refer to individual technical notes and IBC Chapter 17 for specific qualifications, inspections, tests, frequency and standards required. Testing and inspection shall be performed in accordance with the referenced standard for the specific material or procedure unless other criteria are specified. In the absence of a referenced standard, tests shall be performed in accordance with generally accepted industry standards.
Work shall be checked as it progresses. Failure to detect any defective work or materials shall not prevent later rejection if defective work or materials are discovered, nor shall it obligate Owner to accept such work.
Structural testing, special inspection, and periodic inspections by the Building Official do not preclude the normal field involvement and site observations by Architect or SER.
Structural testing, special inspection, and periodic inspections by the Building Official do not relieve the Contractor of any responsibility to complete the work in accordance with the approved Contract Documents.
Testing agents and/or special inspectors may not waive or alter contract requirements, or approve or accept any portion of the work unless specifically authorized by the Architect or SER. They may not assume any duties of the Contractor, and they have no authority to stop or reject work.

RELATED REQUIREMENTS
Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specifications apply to this section.

DEFINITIONS
Testing: Evaluation of systems, primarily requiring physical manipulation and analysis of materials, in accordance with approved standards.
Inspection: Evaluation of systems, primarily requiring observation and judgment.
Structural Special Inspections: Structural special inspections include inspections of structural items required by Chapter 17 of the 2020 Minnesota Building Code and other items, which in the professional judgment of the Structural Engineer of Record, are critical to the integrity of the building structure and are indicated to be performed under the requirements of this section. They do not include special inspections for non-structural items such as fireproofing, EIFS, and smoke control systems.
Structural Testing: Structural testing includes those tests of structural items required by the 2020 Minnesota Building Code, or its referenced standards, and other tests, which in the professional judgment of the Structural Engineer of Record, are critical to the integrity of the building structure and are indicated to be performed under the requirements of this section.
Architect of Record: The prime consultant in charge of overall design and coordination of the project.
Structural Engineer of Record (SER): The licensed professional engineer in responsible charge of the structural design for the project.
Licensed Structural Engineer: A professional engineer with education and experience in the design of structures similar to this project licensed to practice in the State in which the Project is located.
Testing Agency (TA): The properly qualified firm performing testing services.
Special Inspector (SI): A properly qualified individual or firm performing special inspections.
Building Official: The officer or his duly authorized representative charged with the administration and enforcement of the building code for the project.

REFERENCES
ASTM C1077-17 – Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation.
ASTM C1093-22 – Standard Practice for the Accreditation of Testing Agencies for Unit Masonry.
ASTM D3740-19 – Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
ASTM E329-21 – Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection.
ASTM E543-21 – Standard Specification for Agencies Performing Nondestructive Testing.
International Building Code (IBC), 2018.
Minnesota Building Code (MBC), 2020.

QUALIFICATIONS
Testing Agency: An approved independent testing agency acceptable to the Owner, Architect, and SER and meeting the following:
Authorized to operate in the State in which the project is located and experienced with the requirements and testing methods specified in the Contract Documents.
Meet applicable requirements of references noted above.
Have available testing equipment that is calibrated, at reasonable intervals, by devices of accuracy traceable to either the National Bureau of Standards, or to accepted values of natural physical constants.
Provide individuals performing tests and taking samples with appropriate certifications for work performed.
Work shall be performed under the supervision of a professional engineer licensed to practice in the State in which the project is located.
Special Inspector: Either an appropriately certified inspector or a civil/structural engineer performing under the direct supervision of a licensed structural engineer (as defined earlier in this section) and acceptable to the SER and Building Official. Unique special inspector requirements, for specific materials and systems, are noted in related technical specification sections.

RESPONSIBILITIES
Special Inspectors:
Inspect the work assigned for conformance with the building department approved plans, specifications, and applicable material and workmanship provisions of the code. Perform inspection in a timely manner to avoid delay of work.
Bring nonconforming items to the immediate attention of the contractor for correction. If not corrected within 24 hours or if inspector will not be on site the following day, bring to the attention of the SER by the end of the business day. If uncorrected after a reasonable period of time, bring to the attention of the Building Official and to the Architect. Notify SER immediately if non-conforming items are enclosed, embedded, or obscured prior to verification of correction.
Submit certified inspection reports to the Building Official, Contractor, the Architect, the SER, and other designated persons in accordance with the structural testing and special inspection schedule.
Submit a final signed report stating whether the work requiring special inspection was, to the best of his/her knowledge, in conformance with the approved plans, specifications and the applicable workmanship provisions of the code.
Sign the structural testing and special inspection schedule in conjunction with other responsible parties.
Attend preconstruction meeting to review scope of special inspection.
Testing Agency:
Test the work assigned for conformance with the building department approved Contract Documents and applicable material provisions of the documents. Perform tests in a timely manner to avoid delay of work.
Submit certified test reports to the Building Official, Contractor, the Architect, the SER, and other designated persons in accordance with the structural testing and special inspection schedule.
Sign the structural testing and special inspection schedule in conjunction with other responsible parties.
Attend a preconstruction meeting to review scope of structural testing.
Contractor:
Attend a preconstruction meeting to review scope of structural testing and special inspection.
Post or make available the structural testing and special inspection schedule within its office at the job site. Also, provide adequate notification to those parties designated on the schedule so they may properly prepare for and schedule their work.
Provide special inspectors access to the approved plans and specifications at the job site.
Review all reports issued by special inspectors.
Retain, at the job site, all reports submitted by the special inspectors for review on the Building Official's request.
Correct deficiencies identified in inspection or testing reports in a timely manner.
Provide safe access to the work requiring inspection or testing.
Provide labor and facilities to provide access to the work, to obtain, handle and deliver samples, to facilitate testing and inspection and for storage and curing of test samples.
Verify conformance of the work with specified construction tolerances.
Inspections by Building Official: Provide adequate notice for inspections performed by the building official, as required by the Minnesota Building Code, and local ordinances.
Sign the structural testing and special inspection schedule in conjunction with other responsible parties prior to commencing construction.
Fabricator:
Submit a Certificate of Compliance to the Building Official, Special Inspector, and SER that the work was performed in accordance with the approved plans and specifications.
Sign the structural testing and special inspection schedule in conjunction with other responsible parties prior to commencing construction.
Owner:
Establish direct funding to provide for cost of structural testing and special inspection services.
Provide special inspector with approved plans, specifications and approved shop drawings.
Provide special inspectors and testing agencies with full access to the site at all times.
Sign the Structural testing and special inspection schedule in conjunction with other responsible parties.

PAYMENT
Owner or Architect/SER, acting as the Owner's agent, will employ and pay for services of the special inspectors and testing agency to perform required structural testing and special inspection.
Unless noted otherwise, the Contractor shall provide and pay for all materials, samples, mock-ups, and assemblies required for testing and inspection and shall pay for shipping costs related to delivery of such items. Testing agency will pay for shipping costs of samples transported from site to lab.
If items requiring testing or inspection are enclosed, embedded or obscured prior to testing or inspection or if such items are placed without tests or inspections, the Contractor shall pay for the costs of any exploratory work deemed necessary by the Architect/SER to verify compliance with the Contract Documents.
Contractor shall pay for the costs of any retests or re-inspections caused by work that does not comply with the Contract Documents based on initial tests or inspections, or work that is later revised or replaced by the Contractor. This does not include revisions requested by the Owner.

INSPECTION NOTICE
Provide minimum of 24-hour notice for all items requiring testing or inspection. Items requiring testing and inspection services prior to or during placement shall not be placed until testing and inspection services are available. Items requiring testing and inspection services after placement shall not be enclosed or obscured until testing and inspection services are performed.

REPORTS
Testing agency and special inspectors shall submit reports for structural testing and special inspection in a timely manner to the Contractor, Building Official, SER, and Architect of Record. Provide reports of daily activities to the SER and Contractor. Submit reports to the Contractor on a daily basis and to the SER on a daily or weekly basis. Provide summary reports to the Building Official and Architect on a monthly basis unless they request otherwise. All summary reports shall be certified by a professional engineer licensed in the state of the project. Provide reports for ongoing work, containing the following information:
Date issued.
Project title and number.
Firm name and address.
Name and signature of tester or inspector.
Date and time of sampling, test, or inspection.
Identification of product and specification section.
Location in project, including elevations, grid location and detail.
Type of test or inspection.
Whether test specimens, test results or observations indicate compliance with Contract Documents. Specifically state any discrepancies.
Types and locations of discrepancies found in work.
Work required performed to correct discrepancies and work performed to correct previously noted discrepancies. Discrepancies corrected during an inspection need not be reported.
Submit certified final special inspection report stating that, to the best of the special inspector's knowledge, the work requiring special inspection conformed to the Construction Documents.

FREQUENCY OF TESTING AND INSPECTION
For detailed requirements, see individual technical note sections, the Minnesota Building Code and the structural testing and special inspection schedule.

PROTECTION AND REPAIR
Upon completion of testing, sample-taking, or inspection, the Contractor shall repair damaged work and restore substrates and finishes to eliminate deficiencies, including deficiencies in the visual qualities of exposed surfaces, as judged solely by the Architect/SER. Protect work exposed by or for testing and/or inspection and protect repaired work. Repair and protection is the Contractor's responsibility, regardless of the assignment of responsibility for testing and/or inspection.

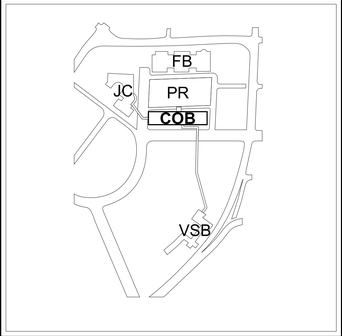
TESTS TO DEMONSTRATE QUALIFICATION
Any tests required to qualify the Contractor or the workers for any phase of the work, shall be performed at no additional cost to the Owner.
If the Contractor proposes a product material, method, or other system that has not been pre-qualified, the Architect/SER may require applicable tests to establish a basis for acceptance or rejection. The Contractor shall pay for these tests.
The Architect/Engineer of Record reserves the right to require certification or other proof that the system proposed is in compliance with specified tests, criteria or standards. A representative of an independent testing agency shall sign the certificate.

STRUCTURAL TESTING AND SPECIAL INSPECTION SCHEDULE
The parties involved shall complete and sign the structural testing and special inspection schedule. Schedule to be complete at time of permit issuance.
The completed schedule is an element of the construction documents and after permit issuance, becomes part of the building department approved plans and specifications.

SHEET INDEX

S0.000	STRUCTURAL TITLE SHEET
S2.001	PLAN SHEET
S5.201	SCHEDULES AND DETAILS

KEY PLAN



REQUIRED STRUCTURAL SPECIAL INSPECTIONS

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING STRUCTURAL ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE INTERNATIONAL BUILDING CODE. SEE SPECIFICATION SECTION 014533 AND MATERIAL SPECIFICATION SECTIONS FOR SPECIFIC REQUIREMENTS. CONSTRUCTION NOT ASSOCIATED WITH THE STRUCTURAL SYSTEM MAY REQUIRE SPECIAL INSPECTION BUT IS NOT LISTED HERE.

ITEM	REQUIRED?	REMARKS
1. Soils compliance prior to foundation construction	YES	Reference IBC 1705.6
2. Wall footings	NO	Footing concrete designed for f'c 2500 psi. Building is 3 stories or less in height.
3. Structural concrete	YES	Reference IBC table 1705.3 and MSBC 1305.1705
4. Reinforcing steel	YES	Reference IBC table 1705.3
5. Post-installed anchors	YES	Reference IBC table 1705.3
6. Seismic Resistance	NO	Reference MSBC 1305.0011 Subp. 4

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
ST PAUL, MN 55155

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
St. Paul, Minnesota 55101
woldae.com | 651 227 7773

BKBM Structural & Civil Engineers
6120 Earle Brown Drive
Suite 700
Minneapolis, MN 55430
Phone: 763.843.0420
bkbm.com

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BKBM Project No. 24394.00

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 **PROFESSIONAL ENGINEER** under the laws of the State of **MINNESOTA**

Andrew Luebke
License Number: **63456** Date **Issue Date**

Revisions		
Description	Date	Num

Comm: **252071**
Date: **10/02/2025**
Drawn: **JDU**
Check: **AML**

STRUCTURAL TITLE SHEET

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

S0.000

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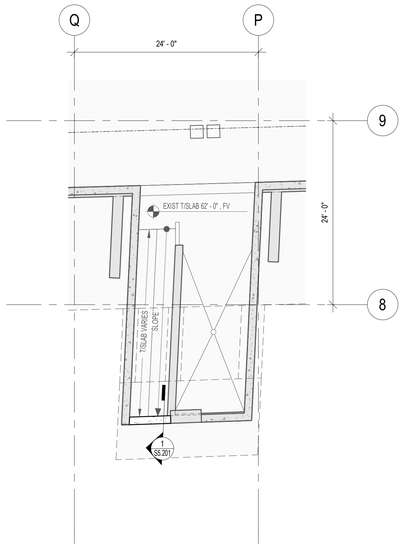
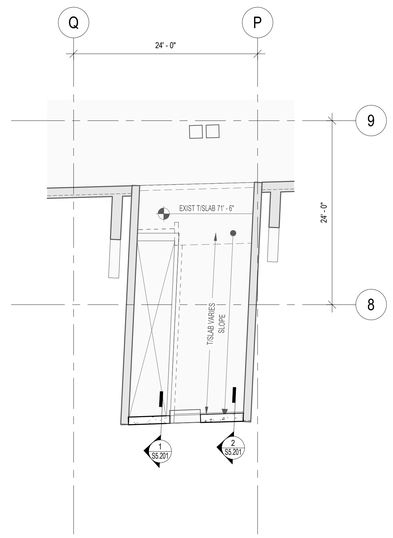


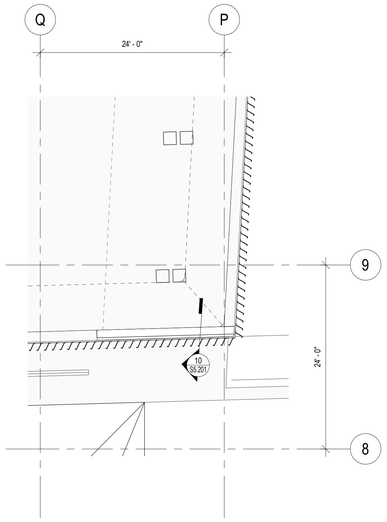
1 S2.001 COB - SUB-BASEMENT TUNNEL CAP

UNLESS NOTED OTHERWISE:
1. SEE SHEET S0.000 FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET S5.201 FOR SCHEDULES.
3. TOP OF SLAB ELEVATION = SEE PLAN.
4. TOP OF EXIST FOOTING ELEVATION (TOF) = SEE PLAN.
5. SEE 3/S5.201 FOR THICKENED SLAB BELOW NON-BEARING CMU WALLS. SEE ARCH FOR LOCATIONS.
6. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, SLAB SLOPES, STEPPED SLABS AND PARTITION WALLS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.



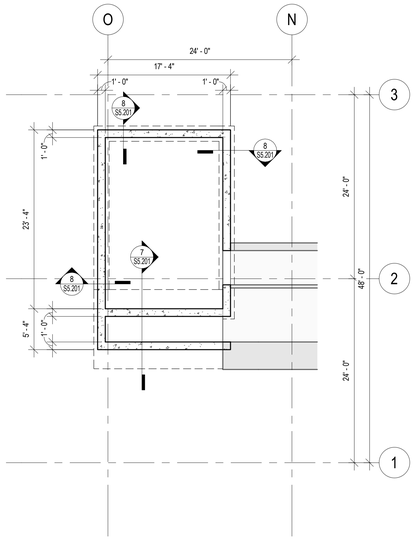
2 S2.001 COB - BASEMENT TUNNEL CAP

UNLESS NOTED OTHERWISE:
1. SEE SHEET S0.000 FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET S5.201 FOR SCHEDULES.
3. TOP OF EXIST SLAB ELEVATION = SEE PLAN.
4. SEE 3/S5.201 FOR THICKENED SLAB BELOW NON-BEARING CMU WALLS. SEE ARCH FOR LOCATIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, SLAB SLOPES, STEPPED SLABS AND PARTITION WALLS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.



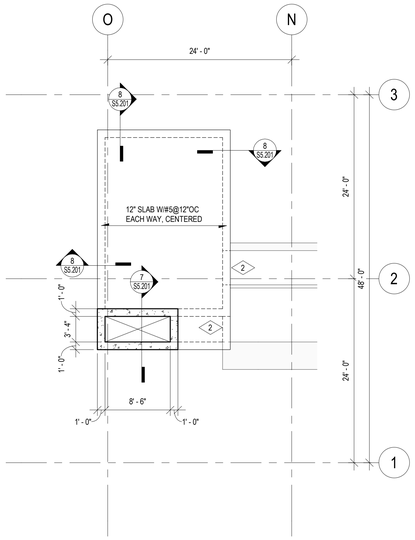
3 S2.001 COB - PARKING RAMP LEVEL 4 CRASH WALL

UNLESS NOTED OTHERWISE:
1. SEE SHEET S0.000 FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET S5.201 FOR SCHEDULES.
3. TOP OF EXIST SLAB ELEVATION = SEE PLAN.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, SLAB SLOPES, STEPPED SLABS AND PARTITION WALLS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.



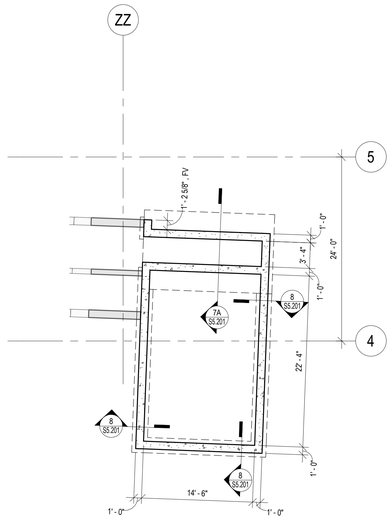
4 S2.001 VSB - BASEMENT TUNNEL CAP

UNLESS NOTED OTHERWISE:
1. SEE SHEET S0.000 FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET S5.201 FOR SCHEDULES.
3. TOP OF SLAB ELEVATION = 73'-0"
4. PROVIDE 4" SLAB ON GRADE W/MICRO FIBER REINFORCING (SEE SPECIFICATION FOR DOSAGE). SEE SECTION 9/S5.201 FOR THICKENED SLABS BELOW BOTTOM OF STAIRS.
5. TOP OF FOOTING ELEVATION = 72'-0"
6. TOP OF EXIST FOOTING ELEVATION (TOF) = SEE PLAN.
7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, SLAB SLOPES, STEPPED SLABS AND PARTITION WALLS.
8. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.



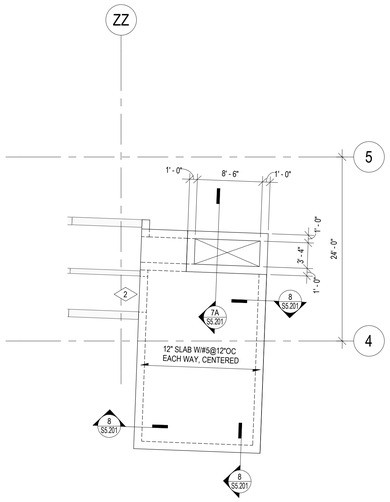
5 S2.001 VSB - BASEMENT TUNNEL CAP

UNLESS NOTED OTHERWISE:
1. SEE SHEET S0.000 FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET S5.201 FOR SCHEDULES.
3. TOP OF SLAB ELEVATION = 86'-8"
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, SLAB SLOPES, STEPPED SLABS AND PARTITION WALLS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.



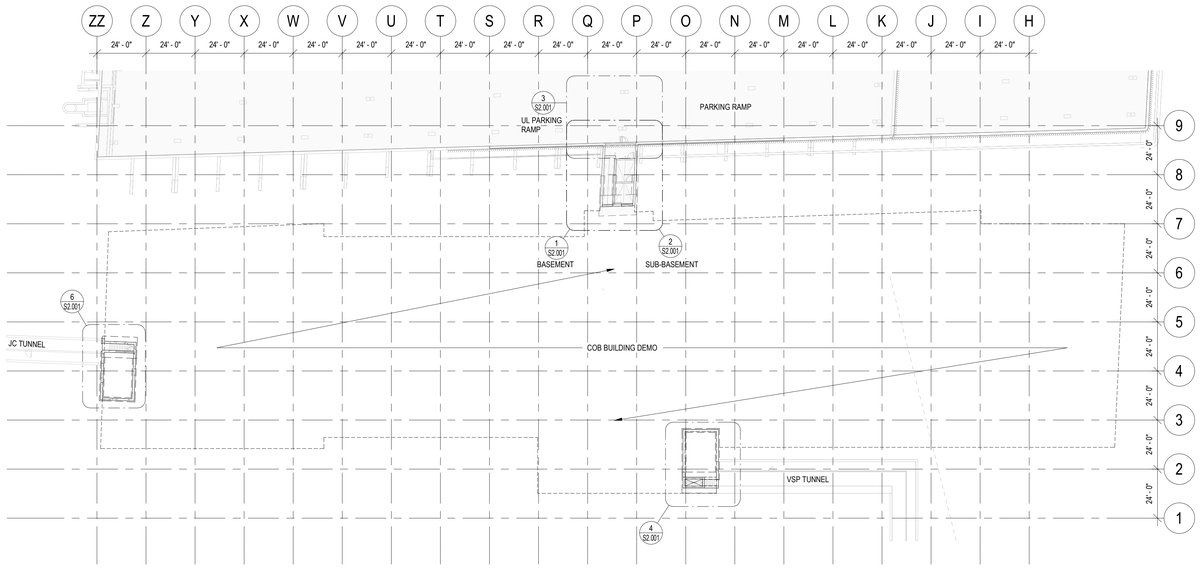
6 S2.001 JC - BASEMENT TUNNEL CAP

UNLESS NOTED OTHERWISE:
1. SEE SHEET S0.000 FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET S5.201 FOR SCHEDULES.
3. TOP OF SLAB ELEVATION = 92'-8"
4. PROVIDE 4" SLAB ON GRADE W/MICRO FIBER REINFORCING (SEE SPECIFICATION FOR DOSAGE). SEE SECTION 9/S5.201 FOR THICKENED SLABS BELOW BOTTOM OF STAIRS.
5. TOP OF FOOTING ELEVATION = 91'-8"
6. TOP OF EXIST FOOTING ELEVATION (TOF) = SEE PLAN.
7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, SLAB SLOPES, STEPPED SLABS AND PARTITION WALLS.
8. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.



7 S2.001 JC - BASEMENT TUNNEL CAP

UNLESS NOTED OTHERWISE:
1. SEE SHEET S0.000 FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET S5.201 FOR SCHEDULES.
3. TOP OF SLAB ELEVATION = 103'-10"
4. TOP OF EXIST FOOTING ELEVATION (TOF) = SEE PLAN.
5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, SLAB SLOPES, STEPPED SLABS AND PARTITION WALLS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.



8 S2.001 OVERALL KEY PLAN - FOR REFERENCE

UNLESS NOTED OTHERWISE:
1. SEE SHEET S0.000 FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.

KEYNOTES	
2	CONTINUE WALL REINFORCING PER 8/S5.201 FOR CONCRETE LINTEL ABOVE OPENING. CONFIRM 2 HORIZ BARS WITHIN 3" OF BOTTOM OF LINTEL. 3/4" MIN CLR.

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
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Phone: 763.843.0420
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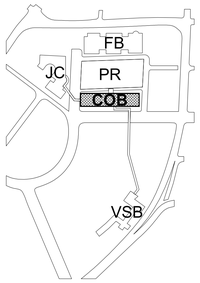
BKBM Project No. 24394.00



KEY PLAN

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 **PROFESSIONAL ENGINEER** under the laws of the State of **MINNESOTA**

Andrew Luebke
License Number: **63456** Date **Issue Date**

Revisions		
Description	Date	Num

Comm: **252071**
Date: **10/02/2025**
Drawn: **JDU**
Check: **AML**
North

PLAN SHEET

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

S2.001

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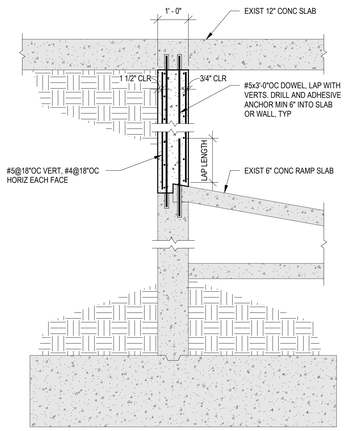
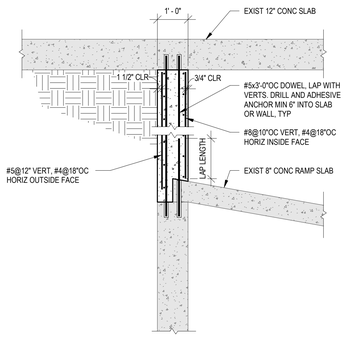
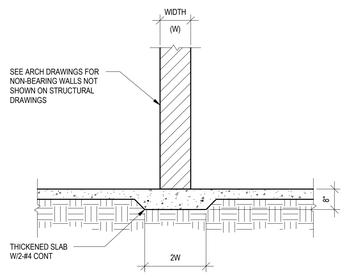


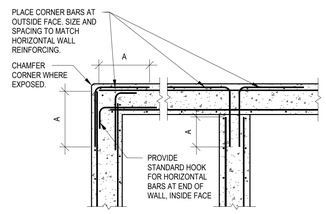
1 SS.201 SECTION



2 SS.201 SECTION



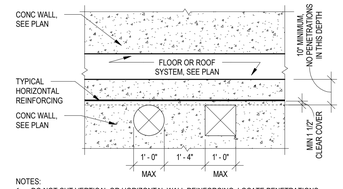
3 SS.201 SECTION



A = TYPICAL WALL REINFORCING LAP LENGTH

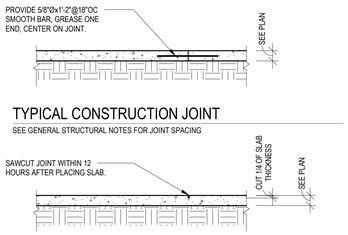
NOTE: SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

4 SS.201 TYPICAL CONCRETE WALL INTERSECTION REINFORCING - PLAN

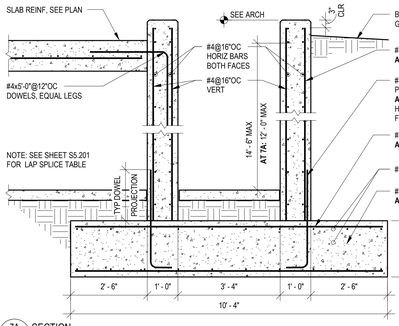


NOTES:
1. DO NOT CUT VERTICAL OR HORIZONTAL WALL REINFORCING. LOCATE PENETRATIONS BETWEEN VERTICAL REINFORCING. PROVIDE MIN 1 1/2" CLEAR COVER BETWEEN VERTICAL REINFORCING AND EDGE OF OPENING. ACCEPTABLE TO ADJUST VERTICAL REINFORCING SPACING UP TO 8" MAX TO ALLOW PENETRATIONS BETWEEN REINFORCING. (ADJUSTING PIER VERTICAL REINFORCING IS NOT ACCEPTABLE.)
2. MULTIPLE PENETRATIONS WITHIN 16" OF EACH OTHER ARE CONSIDERED A SINGLE OPENING.
3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

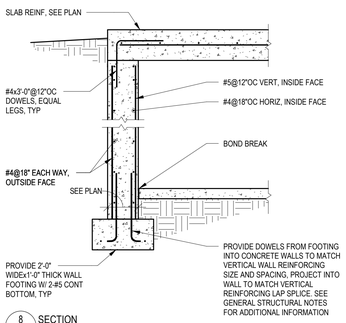
5 SS.201 OPENINGS UP TO 12" IN POURED CONCRETE WALLS



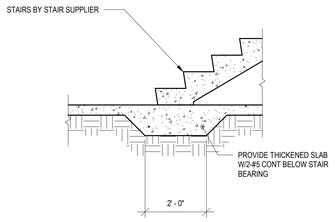
6 SS.201 TYPICAL CONTROL/CONSTRUCTION JOINT



7 SS.201 7A SS.201 SECTION

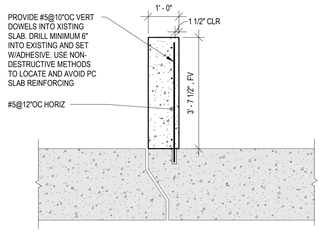


8 SS.201 SECTION



NOTE: SEE ARCH DRAWINGS FOR RISER AND TREAD DIMENSIONS.

9 SS.201 SECTION



10 SS.201 SECTION

CLASS 'A' TENSION LAP SPLICE TABLE								
BAR SIZE	f'_c (psi)							
	2500	3000	3500	4000	5000	6000	7000	8000
#3	1'-6"	1'-5"	1'-4"	1'-3"	1'-1"	1'-0"	1'-0"	1'-0"
#4	2'-0"	1'-10"	1'-9"	1'-7"	1'-5"	1'-4"	1'-3"	1'-2"
#5	2'-6"	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"	1'-6"	1'-5"
#6	3'-0"	2'-9"	2'-7"	2'-5"	2'-2"	2'-0"	1'-10"	1'-9"
#7	4'-5"	4'-0"	3'-9"	3'-6"	3'-2"	2'-10"	2'-8"	2'-6"
#8	5'-0"	4'-7"	4'-3"	4'-0"	3'-7"	3'-3"	3'-0"	2'-10"
#9	5'-8"	5'-2"	4'-10"	4'-6"	4'-0"	3'-8"	3'-5"	3'-2"
#10	6'-4"	5'-9"	5'-4"	5'-0"	4'-6"	4'-1"	3'-9"	3'-6"
#11	7'-1"	6'-4"	5'-10"	5'-6"	4'-11"	4'-6"	4'-2"	3'-11"

CLASS 'B' TENSION LAP SPLICE TABLE								
BAR SIZE	f'_c (psi)							
	2500	3000	3500	4000	5000	6000	7000	8000
#3	1'-11"	1'-10"	1'-8"	1'-7"	1'-5"	1'-4"	1'-2"	1'-2"
#4	2'-7"	2'-5"	2'-3"	2'-1"	1'-11"	1'-9"	1'-7"	1'-6"
#5	3'-3"	3'-0"	2'-9"	2'-7"	2'-4"	2'-2"	2'-0"	1'-10"
#6	3'-11"	3'-7"	3'-4"	3'-1"	2'-10"	2'-7"	2'-4"	2'-3"
#7	5'-8"	5'-3"	4'-10"	4'-6"	4'-1"	3'-9"	3'-5"	3'-3"
#8	6'-6"	6'-0"	5'-6"	5'-2"	4'-8"	4'-3"	3'-11"	3'-8"
#9	7'-4"	6'-9"	6'-3"	5'-10"	5'-3"	4'-9"	4'-5"	4'-2"
#10	8'-3"	7'-6"	6'-11"	6'-6"	5'-9"	5'-3"	4'-11"	4'-7"
#11	9'-2"	8'-2"	7'-7"	7'-1"	6'-4"	5'-10"	5'-5"	5'-0"

NOTES:
1. THESE TABLES SHOW LENGTHS FOR PLAIN, BOTTOM ASTM A615 GRADE 60 BARS IN NORMAL WEIGHT CONCRETE, MEETING THE SPACING AND COVER LIMITATIONS GIVEN BELOW. MULTIPLY THESE LENGTHS BY ALL OF THE APPLICABLE FACTORS GIVEN FOR OTHER CONDITIONS. SPECIFIC EMBEDMENT, LAP, OR PROJECTION LENGTHS SHOWN ON DRAWINGS GOVERN OVER THESE TABLES.
2. SPACING AND COVER REQUIREMENTS.
   a. CLEAR SPACING BETWEEN BARS AT SPLICE ≥2db AND CLEAR COVER ≥db OR
   b. CLEAR SPACING BETWEEN BARS AT SPLICE ≥db AND CLEAR COVER ≥db AND STIRRUPS/TIES OVER FULL LENGTH OF SPLICE. STIRRUPS/TIES TO BE SPACED SUCH THAT:
      s x n≤16 FOR #3 TIES/STIRRUPS
      s x n≤32 FOR #4 TIES/STIRRUPS
      s x n≤50 FOR #5 TIES/STIRRUPS
   db = BAR DIAMETER IN INCHES, s = SPACING OF TIES/STIRRUPS, n = NUMBER OF BARS SPLICED AT A GIVEN LOCATION.
3. MULTIPLY GIVEN SPLICE LENGTHS BY ALL THE FOLLOWING APPLICABLE FACTORS:
   a. MULTIPLY BY 1.5 IF SPACING OR COVER REQUIREMENTS ARE NOT MET.
   b. MULTIPLY BY 1.3 FOR TOP BARS. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR.
   c. MULTIPLY BY 1.3 FOR #3 OR #4 EPOXY COATED BARS SPACED 4" MIN OC WITH 1 1/2" MIN CLEAR COVER.
   d. MULTIPLY BY 1.31 FOR OTHER EPOXY COATED TOP BARS.
   e. MULTIPLY BY 1.5 FOR OTHER EPOXY COATED BARS (EXCEPT TOP BARS).
   f. MULTIPLY BY 1.3 FOR LIGHTWEIGHT CONCRETE.
   g. MULTIPLY BY fy/60 FOR BARS WITH YIELD STRESS >60 KSI.
4. USE CLASS 'B' TENSION LAP SPLICES UNLESS SPECIFICALLY NOTED OTHERWISE.
5. COMPRESSION LAP LENGTH, ONLY WHERE NOTED, TO BE 30db. INCREASE TO 44db FOR Fy = 75 KSI, AND 57db FOR Fy = 90 KSI.

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
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BKBM Project No. 24394.00

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 **PROFESSIONAL ENGINEER** under the laws of the State of **MINNESOTA**

License Number: **63456** Date **Issue Date**

Revisions		
Description	Date	Num

Comm: **252071**
Date: **10/02/2025**
Drawn: **JDU**
Check: **AML**

SCHEDULES AND DETAILS

S5.201

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MECHANICAL SYMBOLS

PRESSURE GAGE	TWO WAY TEMPERATURE CONTROL VALVE	AIR DEVICE TAGS:
AIR VENT	THREE WAY TEMPERATURE CONTROL VALVE	SUPPLY DIFFUSER: A 2408 250 — TYPE; FACE SIZE & NECK DIA.; AIR FLOW (CFM)
STRAINER	UNION	A 2408 800 — TYPE; FACE SIZE & NECK DIA.; AIR FLOW (CFM)
PIPING GUIDE	THERMOMETER	
PIPING ANCHOR	SHUTOFF VALVE	LINEAR SUPPLY DIFFUSER: A 4-2-10 250 — TYPE; LENGTH IN FT, NUMBER OF SLOTS & NECK DIA.; AIR FLOW (CFM)
EXPANSION JOINT	CHECK VALVE	
FLEXIBLE CONNECTION	PRESSURE OR PRESSURE/ TEMPERATURE RELIEF VALVE	SUPPLY REGISTER OR GRILLE: A 12x8 250 — TYPE; SIZE; AIR FLOW (CFM)
DIRECTION OF FLOW	ANGLE VALVE	
CONCENTRIC REDUCER	PRESSURE REDUCING VALVE	RETURN GRILLE: A — TYPE (24x24); A — TYPE (24x12); A 24X12 08 250 — TYPE; FACE SIZE; NECK DIA.; AIRFLOW (CFM)
ECCENTRIC REDUCER	SOLENOID VALVE	
STEAM TRAP ASSEMBLY	WALL HYDRANT	
ELBOW DOWN	HOSE BIBB	
ELBOW UP	LUBRICATED PLUG GAS COCK	
TEE CONNECTION DOWN	BALANCING VALVE	
TEE CONNECTION UP	RPZ VALVE	
PIPING CONNECTION	BACKFLOW PREVENTOR	
CAPPED PIPE	FLOOR CLEANOUT	
FINNED TUBE RADIATION	CLEANOUT	
FLOOR DRAIN	DUCT SMOKE DETECTOR	
SHOCK ABSORBER	MOTORIZED O.B. DAMPER	EXHAUST, TRANSFER & RETURN REGISTERS & GRILLES: A 12x8 250 — TYPE; SIZE; AIR FLOW (CFM)
SUPPLY DUCT ELBOW DOWN	ACCESS PANEL	
SUPPLY DUCT ELBOW UP	ELBOW W/ TURNING VANES	
RETURN/EXHAUST ELBOW DOWN	LONG RADIUS DUCT ELBOW	
RETURN/EXHAUST ELBOW UP		
OUTSIDE AIR ELBOW DOWN	SUPPLY AIR DIFFUSER	
OUTSIDE AIR ELBOW UP	RETURN/EXHAUST AIR REGISTER/GRILLE	
SUPPLY AIR FLOW	SUPPLY AIR REGISTER	
RETURN AIR FLOW	SUPPLY DIFFUSER TAKE-OFF W/ VOLUME DAMPER, MAXIMUM FLEX DUCT LENGTH 5'-0"	
FIRE DAMPER		
FIRE/SMOKE DAMPER	THERMOSTAT	
SMOKE DAMPER	TEMPERATURE SENSOR WELL	
RADIATION DAMPER		
MANUAL VOLUME DAMPER		
CONNECT TO EXISTING		

MECHANICAL LINETYPES

S	DOMESTIC SOFT COLD WATER PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
HT	HEAT TRACE DOMESTIC HOT WATER PIPING
	DOMESTIC CIRCULATING HOT WATER PIPING
	VENT PIPING
AV	ACID RESISTANT VENT PIPING
	SANITARY WASTE ABOVE GROUND PIPING
SS	SANITARY WASTE BELOW GROUND PIPING
AW	ACID RESISTANT WASTE ABOVE GROUND PIPING
AW	ACID RESISTANT WASTE BELOW GROUND PIPING
PD	PUMP DISCHARGE PIPING
SD	STORM DRAIN ABOVE GROUND PIPING
SD	STORM DRAIN BELOW GROUND PIPING
CD	CONDENSATE DRAIN PIPING
I	INDUSTRIAL AIR PIPING
VAC	VACUUM PIPING
NG	NATURAL GAS PIPING
ING	INTERRUPTIBLE NATURAL GAS PIPING
FNG	FIRM NATURAL GAS PIPING
LPG	LIQUEFIED PETROLEUM GAS PIPING
FOS	FUEL OIL SUPPLY PIPING
FOR	FUEL OIL RETURN PIPING
FOG	FUEL OIL GAGE PIPING
FP	FIRE PROTECTION PIPING
HWS	BUILDING HEATING WATER SUPPLY PIPING
HWR	BUILDING HEATING WATER RETURN PIPING
LPS	LOW PRESSURE STEAM PIPING
MPS	MEDIUM PRESSURE STEAM PIPING
HPS	HIGH PRESSURE STEAM PIPING
LPR	LOW PRESSURE CONDENSATE RETURN PIPING
MPR	MEDIUM PRESSURE CONDENSATE RETURN PIPING
HPR	HIGH PRESSURE CONDENSATE RETURN PIPING
RR	REVERSE RETURN HYDRONIC PIPING (EXISTING)
DHS	DISTRICT HEATING SUPPLY PIPING
DHR	DISTRICT HEATING RETURN PIPING
CHWS	BUILDING CHILLED WATER SUPPLY PIPING
CHWR	BUILDING CHILLED WATER RETURN PIPING
CWS	BUILDING CHILLER CONDENSER WATER SUPPLY PIPING
CWR	BUILDING CHILLER CONDENSER WATER RETURN PIPING
LIQ	DX REFRIGERATION SYSTEM LIQUID PIPING
SUC	DX REFRIGERATION SYSTEM SUCTION PIPING
HG	DX REFRIGERATION SYSTEM HOT GAS PIPING
BF	BOILER FEED PIPING
ES	EXTERIOR HYDRONIC SUPPLY PIPING
IS	INTERIOR HYDRONIC SUPPLY PIPING
CCHWS	CAMPUS CHILLED WATER SUPPLY
CCHWR	CAMPUS CHILLED WATER RETURN
O	OXYGEN PIPING
V	VACUUM PIPING
A	MEDICAL AIR PIPING
N	NITROGEN PIPING
W	WASTE ANESTHESIA GAS DISPOSAL PIPING
NO	NITROUS OXIDE PIPING
CO	CARBON DIOXIDE PIPING
IA	INSTRUMENT AIR PIPING

MECHANICAL ABBREVIATIONS

AD	AREA DRAIN	GR	GRILLE
AFF	ABOVE FINISHED FLOOR	HB	HOSE BIBB
AHAP	AS HIGH AS POSSIBLE	HCW	HARD COLD WATER
BFF	BELOW FINISHED FLOOR	HP	HORSE POWER
BLDG	BUILDING	HW	HOT WATER
BSMT	BASEMENT	INV	INVERT
BTWN	BETWEEN	KW	KILOWATT
CB	CATCH BASIN	LAT	LEAVING AIR TEMPERATURE
CFM	CUBIC FEET/MINUTE	LWT	LEAVING WATER TEMPERATURE
CHW	CIRCULATING HOT WATER	MAX	MAXIMUM
CLG	CEILING	MBH	1000 BTU
CO	CLEANOUT	MECH	MECHANICAL
CONCR	CONCRETE	MH	MANHOLE
CONTR	CONTRACTOR	MIN	MINIMUM
CW	COLD WATER	NTS	NOT TO SCALE
DB	DRY BULB	OA	OUTSIDE AIR
DEG	DEGREE	OBD	OPPOSED BLADE DAMPER
DIA	DIAMETER	ORD	OVERFLOW ROOF DRAIN
DIFF	DIFFUSER	P-#	PLUMBING FIXTURE NUMBER
EAT	ENTERING AIR TEMPERATURE	P & T	PRESSURE AND THERMOSTATIC
EDR	SQUARE FEET RADIATION	PD	PRESSURE DROP
EFF	EFFICIENCY	PLBG	PLUMBING
EL	ELBOW	QUAN	QUANTITY
ELEC	ELECTRICAL	RA	RETURN AIR
ELEV	ELEVATION	RD	ROOF DRAIN
EWT	ENTERING WATER TEMPERATURE	REG	REGISTER
EXH	EXHAUST	REQ'D	REQUIRED
EXIST	EXISTING	RPM	REVOLUTIONS/MINUTE
F	DEGREES FAHRENHEIT	SA	SUPPLY AIR
F & T	FLOAT AND THERMOSTATIC	SCW	SOFT COLD WATER
FD	FLOOR DRAIN	SHT	SHEET
FH	FIRE HYDRANT	SP	STATIC PRESSURE
FLA	FULL LOAD AMPS	TD	TEMPERATURE DIFFERENCE
FLR	FLOOR	VTR	VENT THROUGH ROOF
FTR	FINNED TUBE RADIATION	W/	WITH
GEN	GENERAL	WB	WET BULB
GPM	GALLONS/MINUTE	WH	WALL HYDRANT

MECHANICAL SYSTEMS DESIGN INTENT

System design complies with the following codes and standards:

2020 Minnesota Building Code
2020 Minnesota Mechanical Code
2020 Minnesota Fuel Gas Code
2020 Minnesota Fire Code
2020 Minnesota Plumbing Code
2024 Minnesota Energy Code (Prescriptive Compliance Path all Sections)
ASHRAE Standard 62.1 – Ventilation for Acceptable Indoor Air Quality
ASHRAE Standard 135 – BACnet Communication Protocol for Automation and Control Networks
NFPA Code 13 – Standard for the Installation of Sprinkler Systems
Local Authorities Having Jurisdiction
Safe Drinking Water Act

Exterior Design Conditions:
Outdoor Ambient Temperature
Summer 88 DB, 72 WB
Winter -17 DB

Interior Design Conditions:

	Temperature (°F)*	Humidity (%)
Summer	75 DB+/-2	60% (min)**
Winter	70 DB+/-2	N/A ***

Notes:
* Minimum 5 Deg F dead band allowed MN Energy Code for temperature control zones that are both heated and cooled.
** 60% RH minimum allowed by MN Energy Code 6.4.3.6.1 for system utilizing mechanical cooling.
*** Active humidification not provided.

Indoor Air Quality:

Outdoor air Ventilation rates are determined by the "Ventilation Rate Procedure" as defined in Chapter 4 of the Minnesota Mechanical Code.

All air handling units will be provided with MERV-8 2" pleated pre-filters and MERV-13 4" final cartridge filters.

Noise levels from mechanical equipment shall not exceed a Noise Criteria level as follows:

a. Private offices: 30-35
b. Open offices: 35-40
c. Conference Rooms: 25-30
d. Classrooms: 30-35
e. Auditorium: Maximum 25
f. All other spaces: 35-40

MECHANICAL SHEET LIST

M0.0	MECHANICAL TITLE SHEET
M1.000a	COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN
M1.000b	COB - LEVEL BASEMENT - DEMOLITION PLAN
M1.001a	COB - LEVEL GROUND - DEMOLITION PLAN
M1.200	JC - LEVEL BASEMENT - DEMOLITION PLAN
M1.300	VSB - LEVEL BASEMENT - DEMOLITION PLAN
M1.400	FB - LEVEL BASEMENT - DEMOLITION PLAN
M2.000a	COB - LEVEL SUB-BASEMENT - NEW WORK PLAN
M2.000b	COB - LEVEL BASEMENT - NEW WORK PLAN
M2.200	JC - LEVEL BASEMENT - NEW WORK PLAN
M2.300	VSB - LEVEL BASEMENT - NEW WORK PLAN
M2.400	FB - LEVEL BASEMENT - NEW WORK PLAN
M3.100	MECHANICAL SCHEDULES

CENTENNIAL OFFICE BUILDING DEMOLITION
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Description	Date	Num

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Drawn: RR
Check: PJ
North

MECHANICAL TITLE SHEET

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

M0.0

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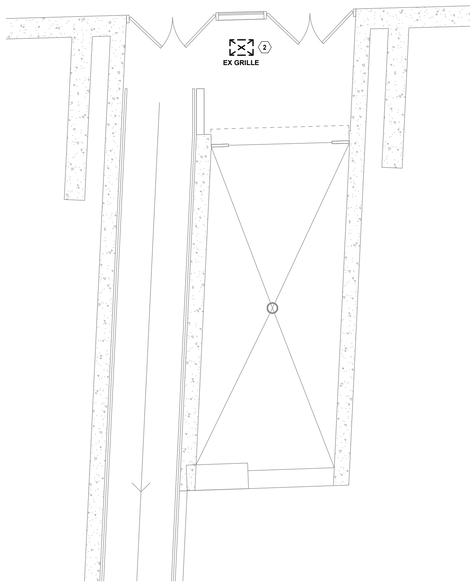
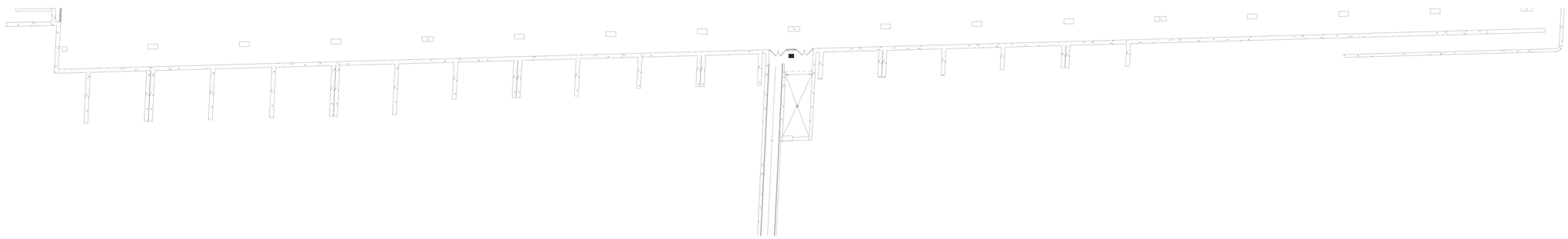


D1 COB - LEVEL SUB-BASEMENT - ENLARGED DEMOLITION PLAN
1/4" = 1'-0"



F1 COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"

M

DEMOLITION PLAN GENERAL NOTES:

1. MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.

2. ALL EXISTING SERVICES SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE INDICATED ON THE PLANS. COORDINATE DISRUPTION OF SERVICES WITH OWNER TO PROVIDE AN ACCEPTABLE TIME FOR DOWN TIME.

3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED ON PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITH OUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

4. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING CEILING TILES AND GRIDS BEYOND EXTENT SHOWN ON ARCHITECTURAL PLANS AS REQUIRED FOR INSTALLATION OF NEW WORK. ANY DAMAGED TILES AND OR GRIDS SHALL BE REPLACED WITH NEW TO MATCH AT THE CONTRACTORS EXPENSE.

5. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL SYSTEMS SHOWN BOLD AND DASHED. ALL SYSTEMS NOT SHOWN BOLD AND DASHED SHALL REMAIN.

6. PATCH AND REPAIR OPENINGS THROUGH WALLS AND FLOORS WHERE MECHANICAL SYSTEMS WERE REMOVED TO MATCH EXISTING AND TO MAINTAIN FIRE RATING. WALL FINISHED BY OTHERS.

DEMOLITION PLAN KEYED NOTES:

1. DEMOLISH INDICATED DUCTWORK AND ALL ASSOCIATED HANGERS AND ACCESSORIES.
2. DEMOLISH INDICATED GRILLE AND ASSOCIATED DUCTWORK.
3. DEMOLISH INDICATED MECHANICAL UNIT AND ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, WIRING, AND ACCESSORIES.
4. DEMOLISH INDICATED DISTRICT ENERGY PIPING. SEE NEW WORK PLANS FOR REUSE OF DISTRICT ENERGY SERVICE.
5. DEMOLISH INDICATED CHILLED WATER PIPING AND CAP.
6. DEMOLISH INDICATED HYDRONIC HEATING PIPING AND ALL ASSOCIATED HANGERS, VALVES, SUPPORTS AND ACCESSORIES.

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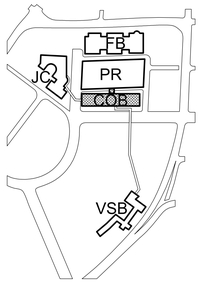

KEY PLAN

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under the laws of the State of **MINNESOTA**

License Number: Date

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/3/25
Drawn: RR
Check: PJ
North

COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN

Scale: As indicated

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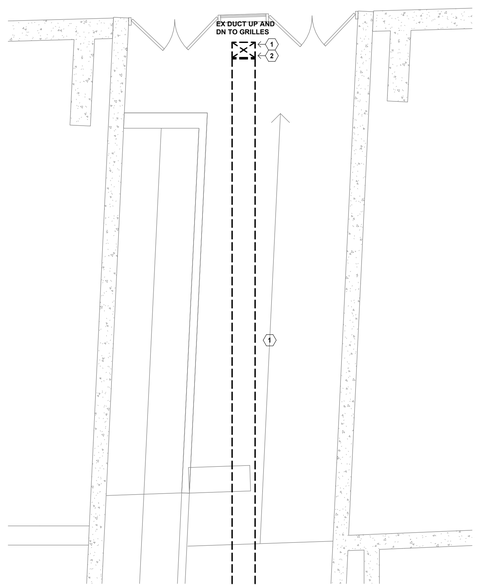

C1 COB - LEVEL BASEMENT - ENLARGED DEMOLITION PLAN
1/4" = 1'-0"

DEMOLITION PLAN GENERAL NOTES:

1. MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.

2. ALL EXISTING SERVICES SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE INDICATED ON THE PLANS. COORDINATE DISRUPTION OF SERVICES WITH OWNER TO PROVIDE AN ACCEPTABLE TIME FOR DOWN TIME.

3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED ON PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITH OUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

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6. PATCH AND REPAIR OPENINGS THROUGH WALLS AND FLOORS WHERE MECHANICAL SYSTEMS WERE REMOVED TO MATCH EXISTING AND TO MAINTAIN FIRE RATING. WALL FINISHED BY OTHERS.

DEMOLITION PLAN KEYED NOTES:

1. DEMOLISH INDICATED DUCTWORK AND ALL ASSOCIATED HANGERS AND ACCESSORIES.
2. DEMOLISH INDICATED GRILLE AND ASSOCIATED DUCTWORK.
3. DEMOLISH INDICATED MECHANICAL UNIT AND ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, WIRING, AND ACCESSORIES.
4. DEMOLISH INDICATED DISTRICT ENERGY PIPING. SEE NEW WORK PLANS FOR REUSE OF DISTRICT ENERGY SERVICE.
5. DEMOLISH INDICATED CHILLED WATER PIPING AND CAP.
6. DEMOLISH INDICATED HYDRONIC HEATING PIPING AND ALL ASSOCIATED HANGERS, VALVES, SUPPORTS AND ACCESSORIES.

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Minneapolis, Minnesota 55402

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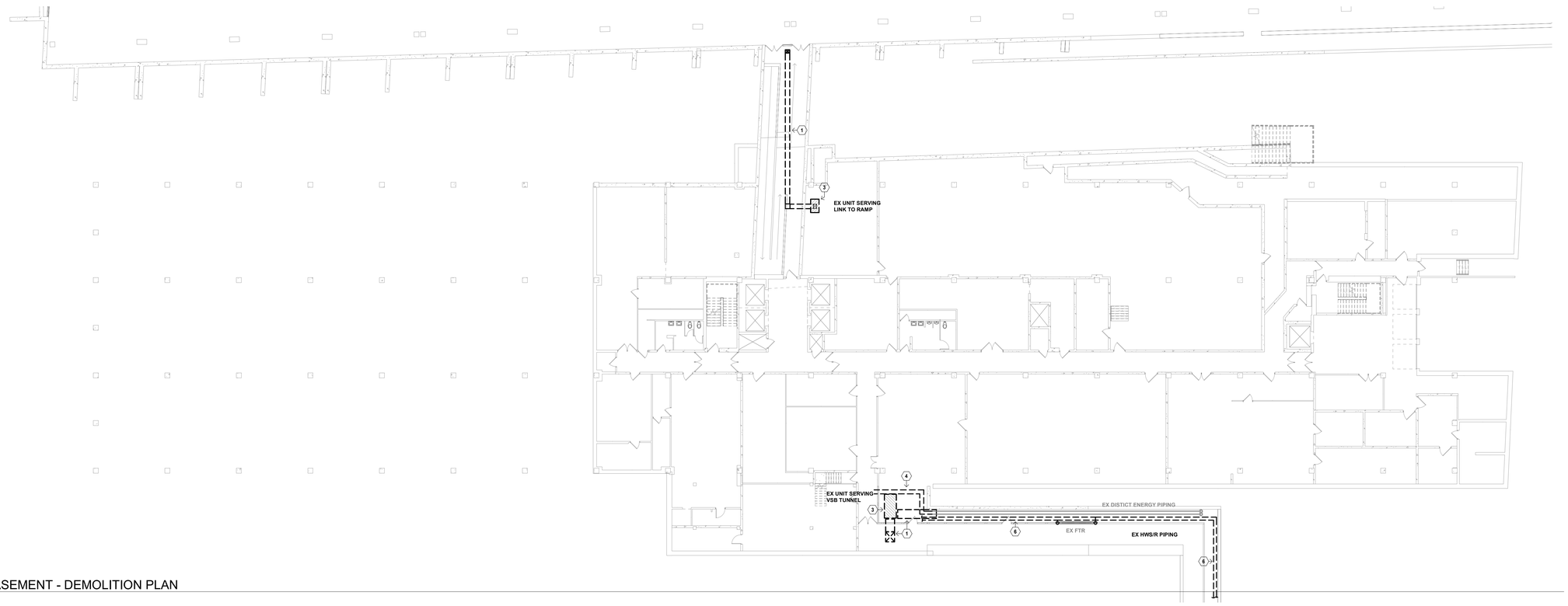
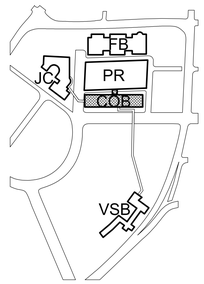


F1 COB - LEVEL BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"



KEY PLAN

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 **PROFESSIONAL ENGINEER** under the laws of the State of **MINNESOTA**

License Number: Date

Revisions		
Description	Date	Num

Comm: 252071
Date: 10/3/25
Drawn: RR
Check: PJ
North

COB - LEVEL BASEMENT - DEMOLITION PLAN

Scale: **As indicated**

M

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

M1.000b

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DEMOLITION PLAN GENERAL NOTES:

1. MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.

2. ALL EXISTING SERVICES SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE INDICATED ON THE PLANS. COORDINATE DISRUPTION OF SERVICES WITH OWNER TO PROVIDE AN ACCEPTABLE TIME FOR DOWN TIME.

3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED ON PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITH OUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

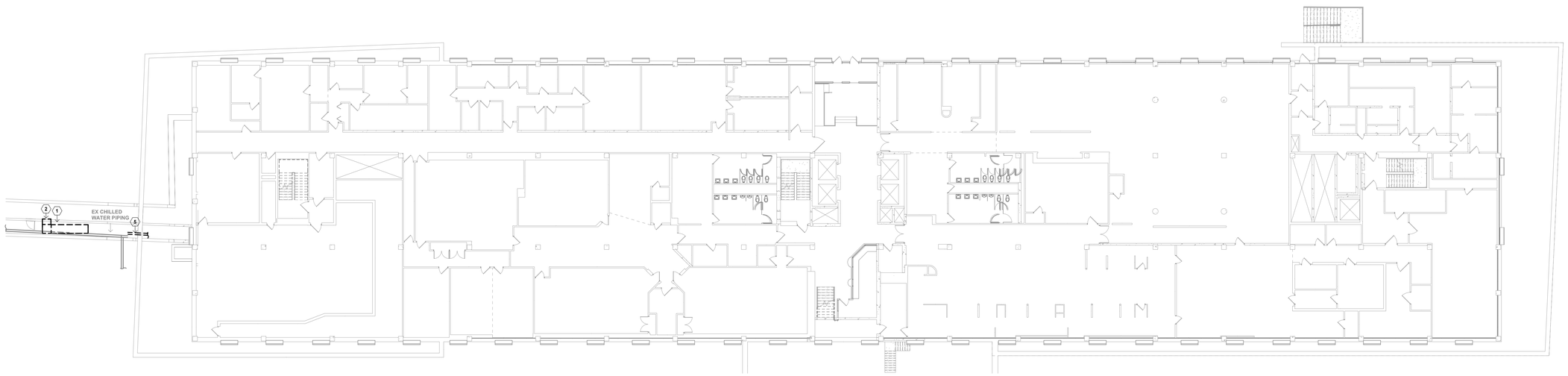
4. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING CEILING TILES AND GRIDS BEYOND EXTENT SHOWN ON ARCHITECTURAL PLANS AS REQUIRED FOR INSTALLATION OF NEW WORK. ANY DAMAGED TILES AND OR GRIDS SHALL BE REPLACED WITH NEW TO MATCH AT THE CONTRACTORS EXPENSE.

5. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL SYSTEMS SHOWN BOLD AND DASHED. ALL SYSTEMS NOT SHOWN BOLD AND DASHED SHALL REMAIN.

6. PATCH AND REPAIR OPENINGS THROUGH WALLS AND FLOORS WHERE MECHANICAL SYSTEMS WERE REMOVED TO MATCH EXISTING AND TO MAINTAIN FIRE RATING. WALL FINISHED BY OTHERS.

DEMOLITION PLAN KEYED NOTES:

1. DEMOLISH INDICATED DUCTWORK AND ALL ASSOCIATED HANGERS AND ACCESSORIES.
2. DEMOLISH INDICATED GRILLE AND ASSOCIATED DUCTWORK.
3. DEMOLISH INDICATED MECHANICAL UNIT AND ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, WIRING, AND ACCESSORIES.
4. DEMOLISH INDICATED DISTRICT ENERGY PIPING. SEE NEW WORK PLANS FOR REUSE OF DISTRICT ENERGY SERVICE.
5. DEMOLISH INDICATED CHILLED WATER PIPING AND CAP.
6. DEMOLISH INDICATED HYDRONIC HEATING PIPING AND ALL ASSOCIATED HANGERS, VALVES, SUPPORTS AND ACCESSORIES.



F1 COB - LEVEL GROUND - DEMOLITION PLAN
1/16" = 1'-0"

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA

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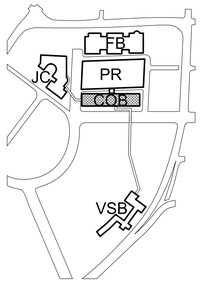

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COB - LEVEL GROUND - DEMOLITION PLAN

Scale: **As indicated**

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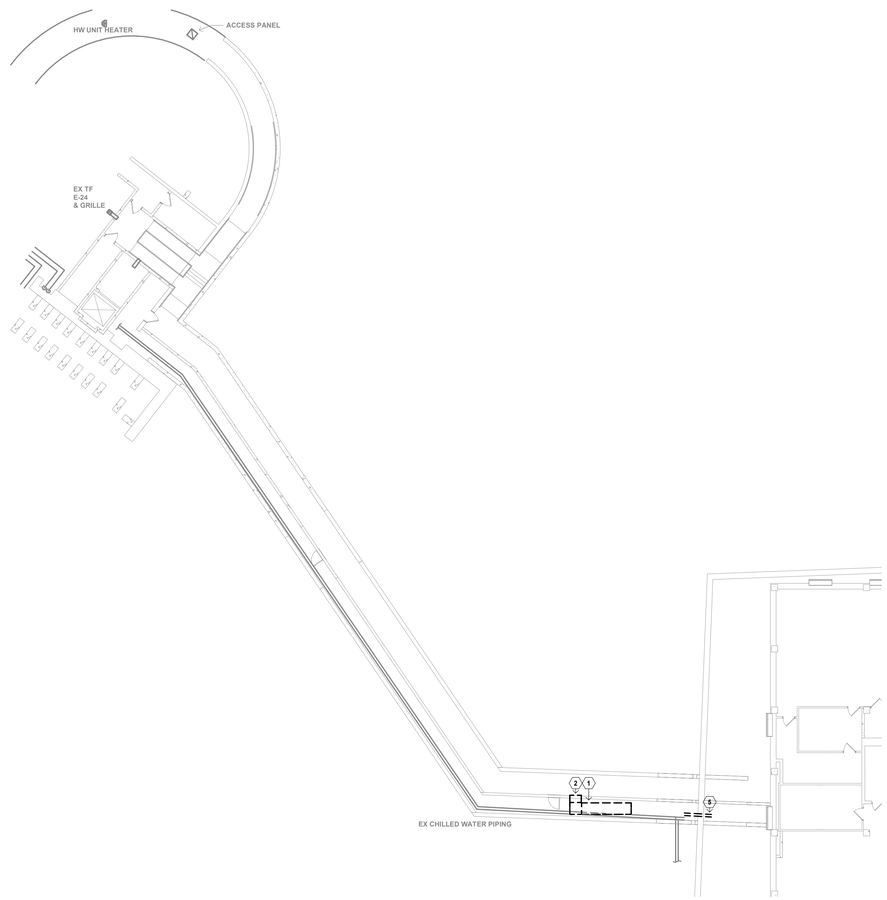

F3 JC - LEVEL BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"

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DEMOLITION PLAN KEYED NOTES:

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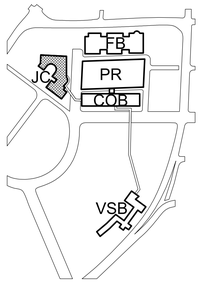

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JC - LEVEL BASEMENT - DEMOLITION PLAN

Scale: As Indicated

M1.200

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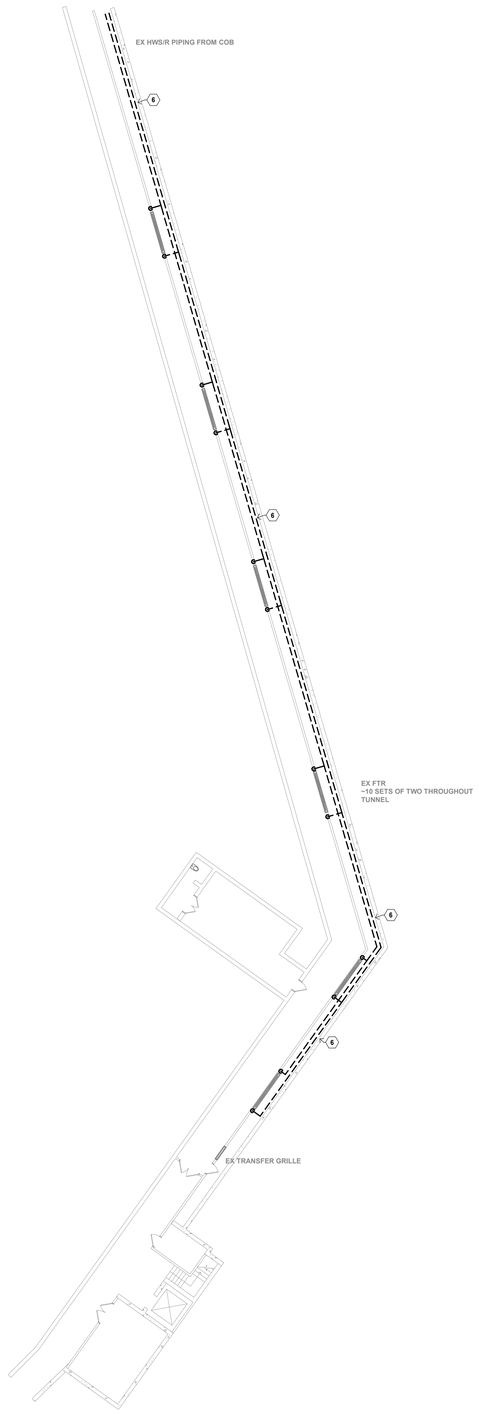

F1 VSB - LEVEL BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"

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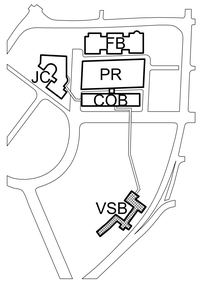

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VSB - LEVEL BASEMENT - DEMOLITION PLAN

Scale: **As Indicated**

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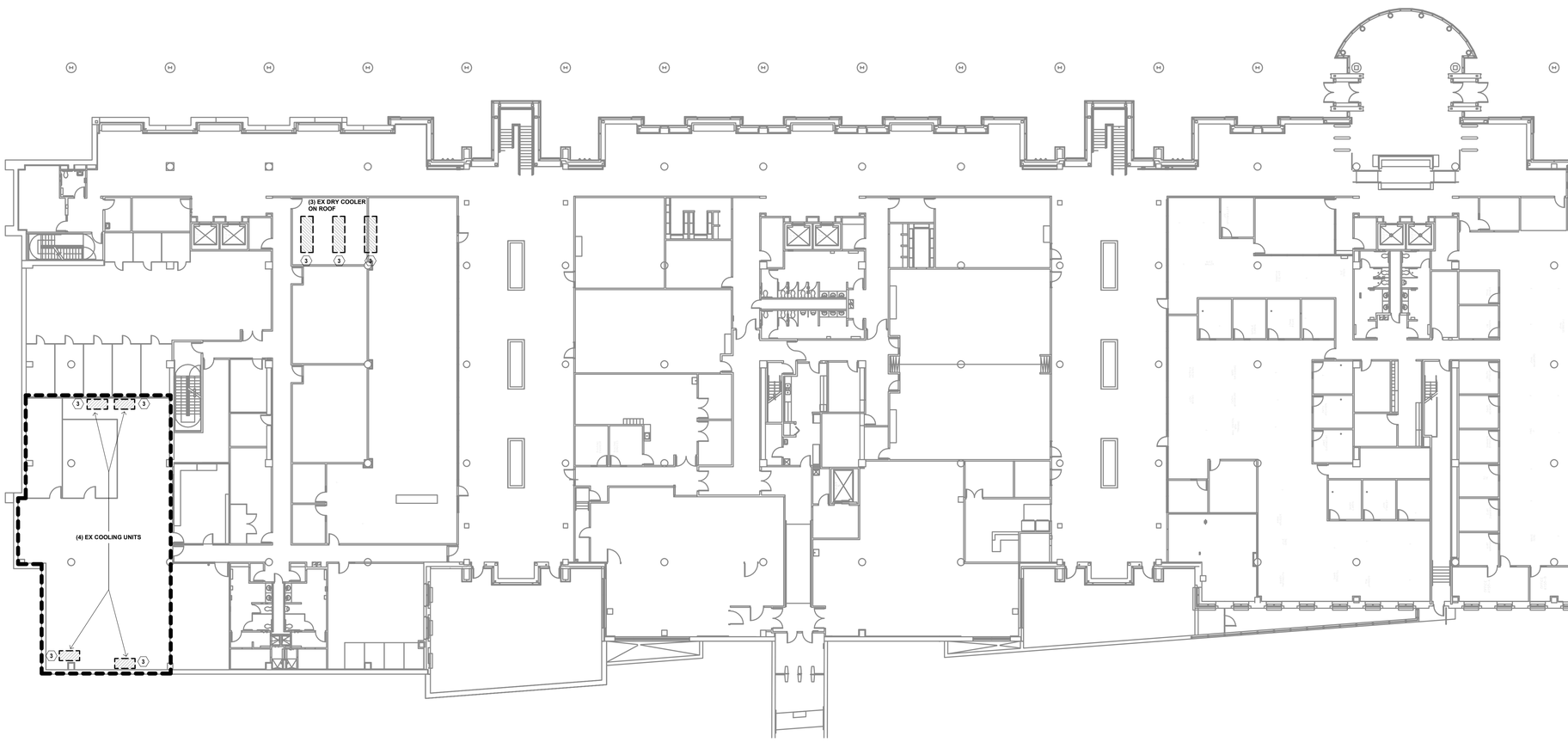

F1 FB - LEVEL BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"

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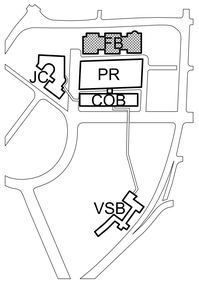

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FB - LEVEL BASEMENT - DEMOLITION PLAN

Scale: **As indicated**

M1.400

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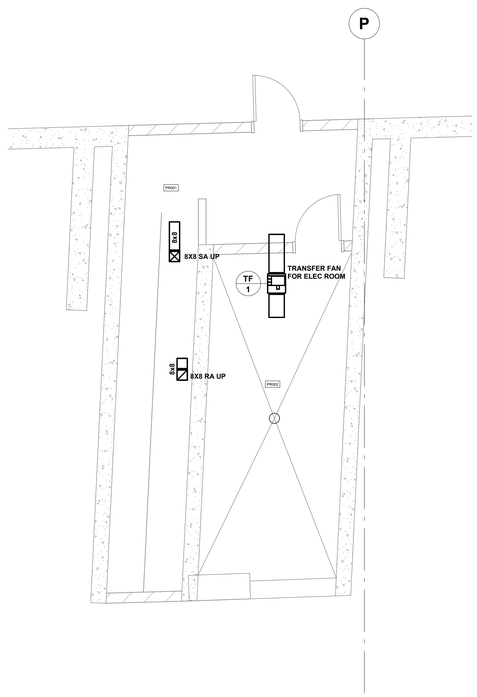
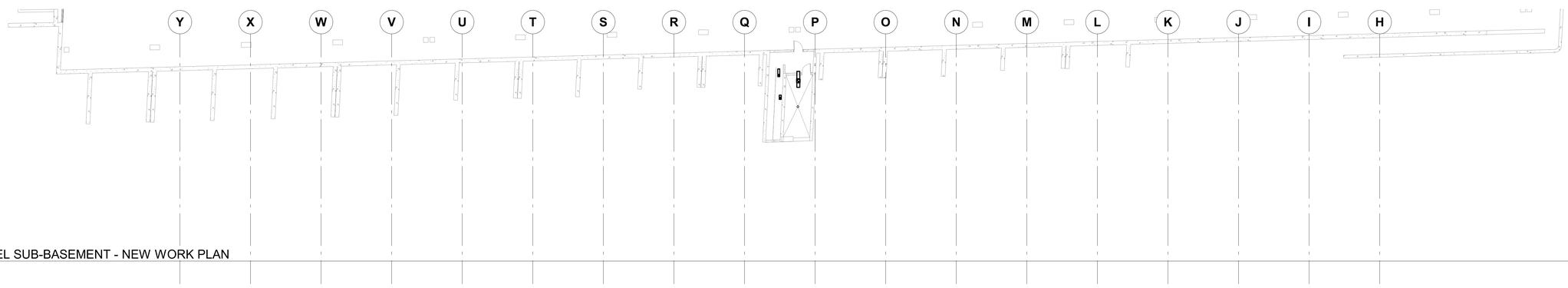


D1 COB - LEVEL SUB-BASEMENT - ENLARGED PLAN
1/4" = 1'-0"



F1 COB - LEVEL SUB-BASEMENT - NEW WORK PLAN
1/16" = 1'-0"

M

PLUMBING PLAN GENERAL NOTES:

1. MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.

2. ALL RISES AND DROPS IN PIPING ARE NOT NECESSARILY SHOWN. LAYOUT ROUTING AND COORDINATE WORK WITH OTHER TRADES BEFORE CONSTRUCTION.

3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

4. LOCATE ALL VALVES, METERS, GAUGES AND PIPING SPECIALTIES ABOVE ACCESSIBLE CEILINGS.

5. COORDINATE ALL UTILITY CONNECTION SIZES, LOCATIONS, AND INVERTS WITH THE SITE UTILITY CONTRACTOR.

6. INSTALL WALL HYDRANTS AT 2'-0" ABOVE FINISHED GRADE. FIELD VERIFY EXACT LOCATION.

7. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING CEILING TILES AND GRIDS BEYOND EXTENT SHOWN ON ARCHITECTURAL PLANS AS REQUIRED FOR INSTALLATION OF NEW WORK. ANY DAMAGED TILES AND OR GRIDS SHALL BE REPLACED WITH NEW TO MATCH AT THE CONTRACTORS EXPENSE.

8. REFER TO PLUMBING RISER DIAGRAMS FOR ADDITIONAL PIPE SIZES NOT SHOWN ON DRAWING.

9. PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING TO ELECTRONIC PLUMBING FIXTURES IN A CONTINUOUS RACEWAY SYSTEM TO CONFORM TO ALL DIVISION 26 REQUIREMENTS. WORK TO INCLUDE TRANSFORMERS AS NECESSARY FOR THE CONNECTED QUANTITY OF FIXTURES, WIRING, CONDUIT, JUNCTION BOXES, AND FINAL CONNECTIONS. THE ELECTRICAL CONTRACTOR WILL PROVIDE 120/1 VOLT POWER AND CONNECTIONS TO LINE VOLTAGE SIDE OF THE TRANSFORMER. REFER TO THE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

10. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED REINFORCEMENT OF NEW AND EXISTING STRUCTURAL MEMBERS FOR MECHANICAL SYSTEMS. REFER TO "MECHANICAL SUPPORT REINFORCEMENT DETAIL" FOR ADDITIONAL REQUIREMENTS.

PLUMBING PLAN KEYED NOTES:

1

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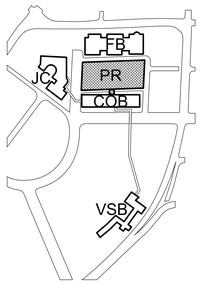

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COB - LEVEL SUB-BASEMENT - NEW WORK PLAN

Scale: **As Indicated**

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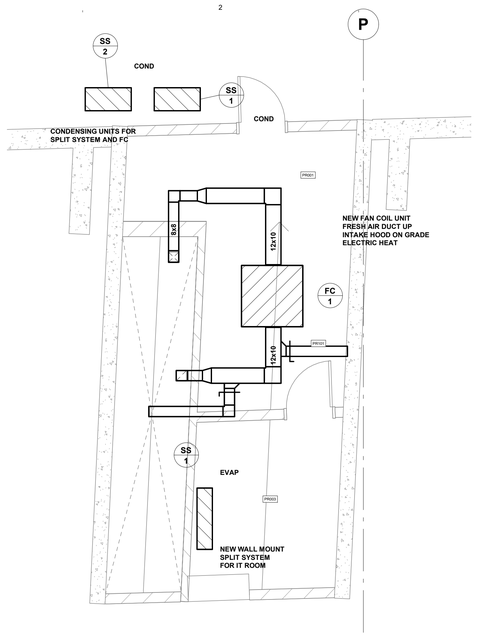
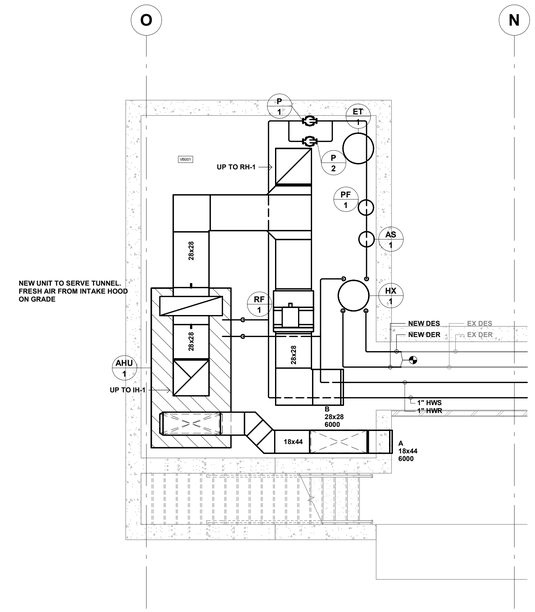


C1 COB - LEVEL BASEMENT - ENLARGED PLAN
1/4" = 1'-0"



C6 VSB TUNNEL STAIR - LEVEL BASEMENT - ENLARGED PLAN
1/4" = 1'-0"

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4. LOCATE ALL VALVES, METERS, GAUGES AND PIPING SPECIALTIES ABOVE ACCESSIBLE CEILINGS.

5. COORDINATE ALL UTILITY CONNECTION SIZES, LOCATIONS, AND INVERTS WITH THE SITE UTILITY CONTRACTOR.

6. INSTALL WALL HYDRANTS AT 2'-0" ABOVE FINISHED GRADE. FIELD VERIFY EXACT LOCATION.

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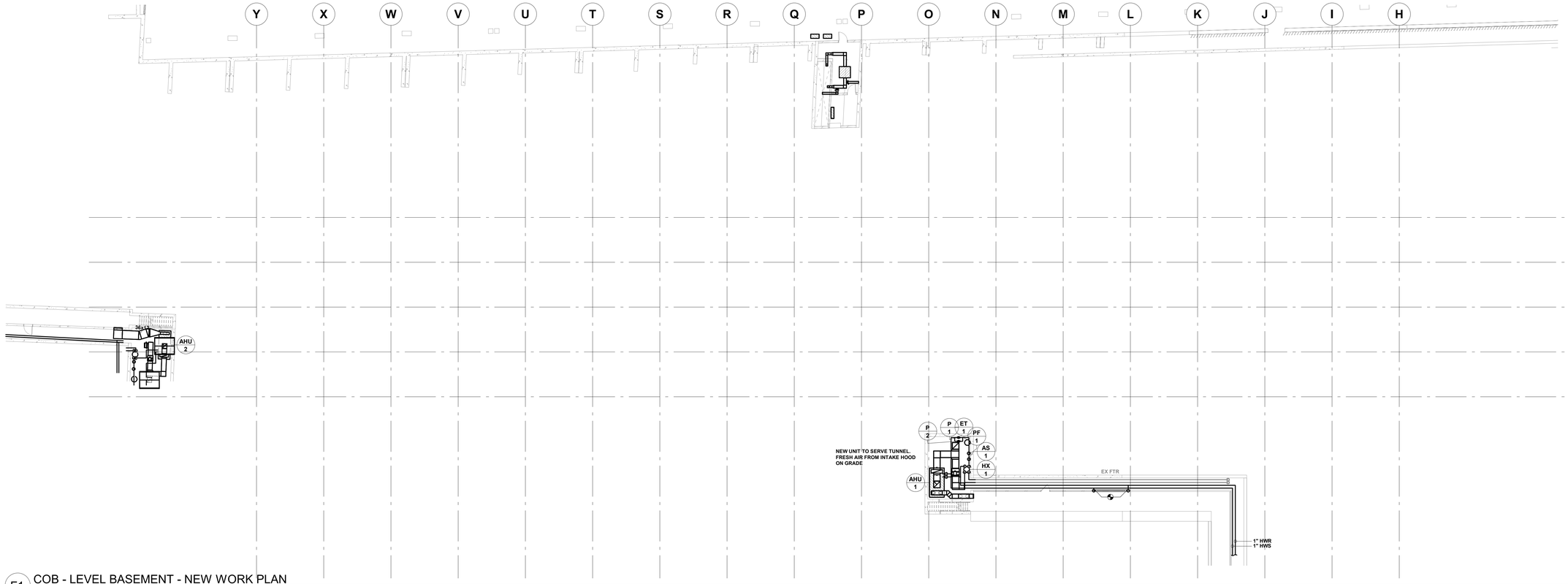

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STATE OF MINNESOTA

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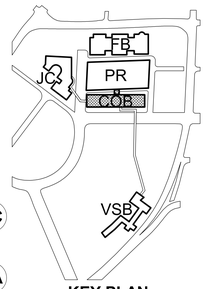
ST PAUL, MN 55155

WOLD ARCHITECTS AND ENGINEERS
50 South 6th Street, Suite 2250
Minneapolis, Minnesota 55402
woldae.com | 612 772 9025



KEY PLAN

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License Number: Date

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Comm: 252071
Date: 10/3/25
Drawn: RR
Check: PJ
North

COB - LEVEL BASEMENT - NEW WORK PLAN

Scale: As Indicated

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

M2.000b

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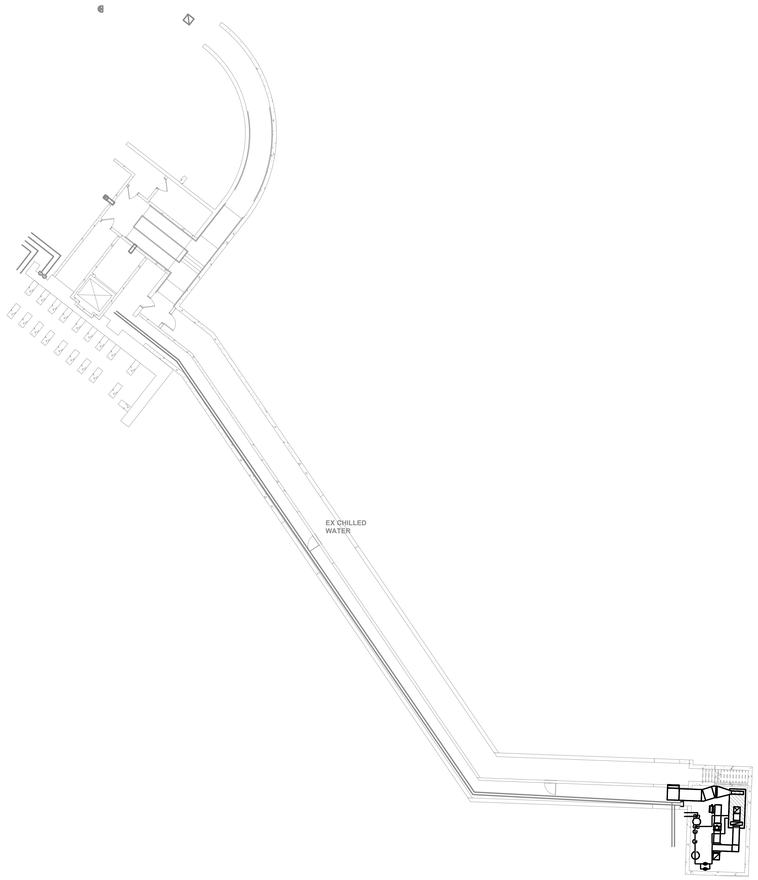
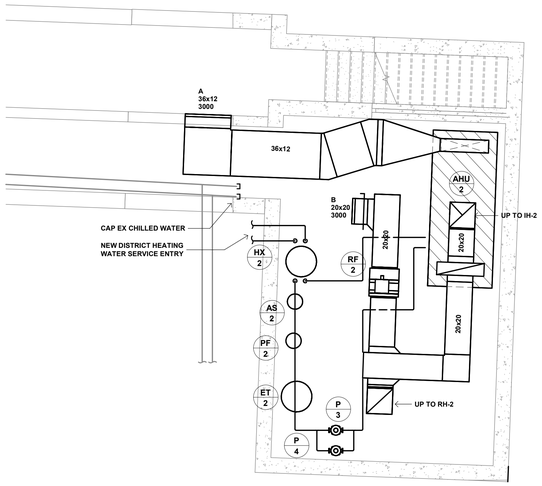
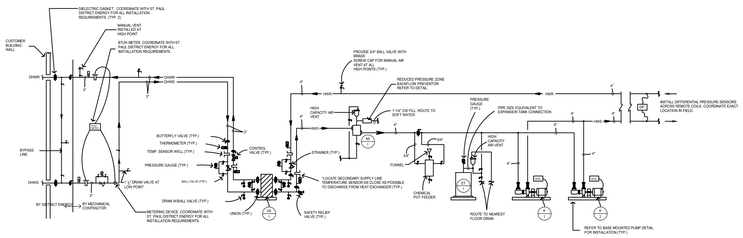


D1 JC - LEVEL BASEMENT - FLOOR PLAN
1/16" = 1'-0"



E5 JC TUNNEL STAIR - LEVEL BASEMENT - ENLARGED FLOOR PLAN
1/4" = 1'-0"



F1 DISTRICT ENERGY HEATING WATER AND DOMESTIC HOT WATER SCHEMATIC
NOT TO SCALE

M

HYDRONIC PLAN GENERAL NOTES:

1. ALL RISES AND DROPS IN PIPING ARE NOT NECESSARILY SHOWN. LAYOUT ROUTING AND COORDINATE WORK WITH OTHER TRADES BEFORE CONSTRUCTION.

2. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

3. LOCATE ALL VALVES, METERS, GAUGES, AND PIPING SPECIALTIES ABOVE ACCESSIBLE CEILINGS.

4. COORDINATE TEMPERATURE SENSOR LOCATIONS WITH OTHER TRADES, BUILDING ELEMENTS, MARKER BOARDS, AND ELECTRICAL SWITCHES. ADJUST THE EXACT LOCATIONS AS REQUIRED TO AVOID CONFLICTS.

5. BRANCH PIPING TO EQUIPMENT TO BE 3/4" UNLESS OTHERWISE NOTED.

6. ROUTE PIPES BETWEEN JOIST WEBS WHERE REQUIRED TO COORDINATE WITH THE INSTALLATION OF OTHER TRADES AND TO MAINTAIN CEILING HEIGHTS. COORDINATE LOCATIONS PRIOR TO CROSS BRACING TO ENSURE THERE ARE NO CONFLICTS.

7. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING CEILING TILES AND GRIDS BEYOND EXTENT SHOWN ON ARCHITECTURAL PLANS AS REQUIRED FOR INSTALLATION OF NEW WORK. ANY DAMAGED TILES AND OR GRIDS SHALL BE REPLACED WITH NEW TO MATCH AT THE CONTRACTORS EXPENSE.

8. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED REINFORCEMENT OF NEW AND EXISTING STRUCTURAL MEMBERS FOR MECHANICAL SYSTEMS. REFER TO "MECHANICAL SUPPORT REINFORCEMENT DETAIL" FOR ADDITIONAL REQUIREMENTS.

HYDRONIC PLAN KEYED NOTES:

1

CENTENNIAL OFFICE BUILDING DEMOLITION

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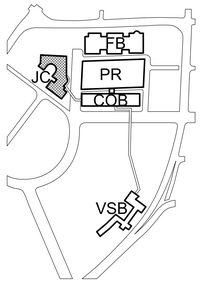

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JC - LEVEL BASEMENT - NEW WORK PLAN

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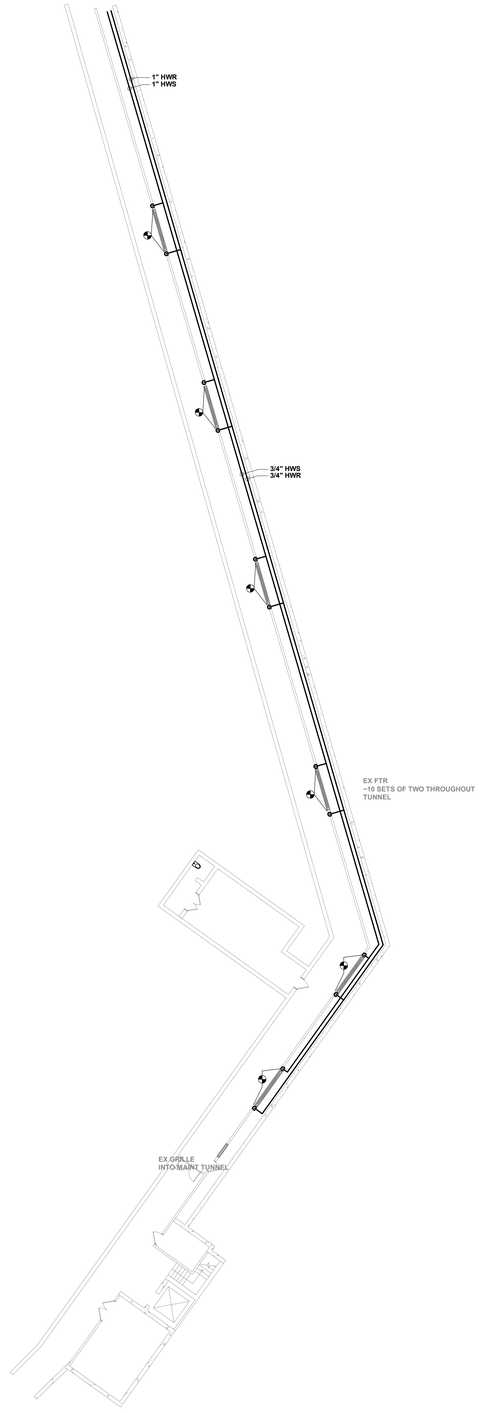

F3 VSB - LEVEL BASEMENT - NEW WORK PLAN
1/16" = 1'-0"

HVAC PLAN GENERAL NOTES:

1. TRANSFER DUCTS AND DUCTS CONNECTED TO TRANSFER FANS SHALL HAVE 1" INTERNAL SOUND ATTENUATING LINER

2. DO NOT INSTALL FLEXIBLE DUCT CONNECTIONS ABOVE INACCESSIBLE CEILINGS

3. DIFFUSER DUCT RUNOUTS AND FLEXIBLE DUCT CONNECTIONS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK.

4. THE VARIABLE AIR VOLUME CONTROL BOX SHALL BE LOCATED IN A POSITION TO ENSURE ACCESSIBILITY. VARIABLE AIR VOLUME COIL CONNECTIONS SHALL BE ON THE SAME SIDE AS THE CONTROL BOX.

5. LOCATE BALANCING DAMPERS ABOVE ACCESSIBLE CEILINGS WHERE POSSIBLE.

6. COORDINATE LOCATIONS OF ANY ACCESS PANELS REQUIRED IN WALLS OR CEILINGS WITH GENERAL CONTRACTOR.

7. ROUTE DUCTS BETWEEN JOISTS AND THROUGH JOIST WEBS WHERE REQUIRED TO COORDINATE WITH THE INSTALLATION OF OTHER TRADES AND TO MAINTAIN CEILING HEIGHTS. COORDINATE LOCATIONS PRIOR TO CROSS BRACING TO ENSURE THERE ARE NO CONFLICTS. AREAS KEYNOTED ARE MINIMUM REQUIRED.

8. DIFFUSER AND REGISTER LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE LOCATIONS AND SHALL BE IN ACCORDANCE WITH CEILING PATTERNS AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

9. ALL RISES AND DROPS IN DUCTWORK ARE NOT NECESSARILY SHOWN. LAYOUT ROUTING AND COORDINATE WORK WITH OTHER TRADES BEFORE CONSTRUCTION.

10. ALL SUPPLY DUCTWORK ROUTED IN CONCEALED SPACES AND ABOVE CEILINGS SHALL BE EXTERNALLY INSULATED. DO NOT INSULATE RETURN DUCTWORK. INSULATE RELIEF DUCTWORK AS SPECIFIED.

11. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DETERIORATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

12. MECHANICAL CONTRACTOR SHALL DETERMINE LIMITATIONS AND/OR CONFLICTS RELATIVE TO THE EXECUTION OF HIS WORK PRIOR TO BID. VERIFY EXACT DETAIL OF INSTALLATION REQUIRED TO PROVIDE SYSTEMS SHOWN WITHIN SPACE INTENDED.

13. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING CEILING TILES AND GRIDS BEYOND EXTENT SHOWN ON ARCHITECTURAL PLANS AS REQUIRED FOR INSTALLATION OF NEW WORK. ANY DAMAGED TILES AND OR GRIDS SHALL BE REPLACED WITH NEW TO MATCH AT THE CONTRACTORS EXPENSE.

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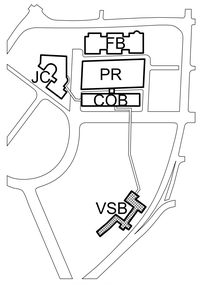

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VSB - LEVEL BASEMENT - NEW WORK PLAN

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M2.300

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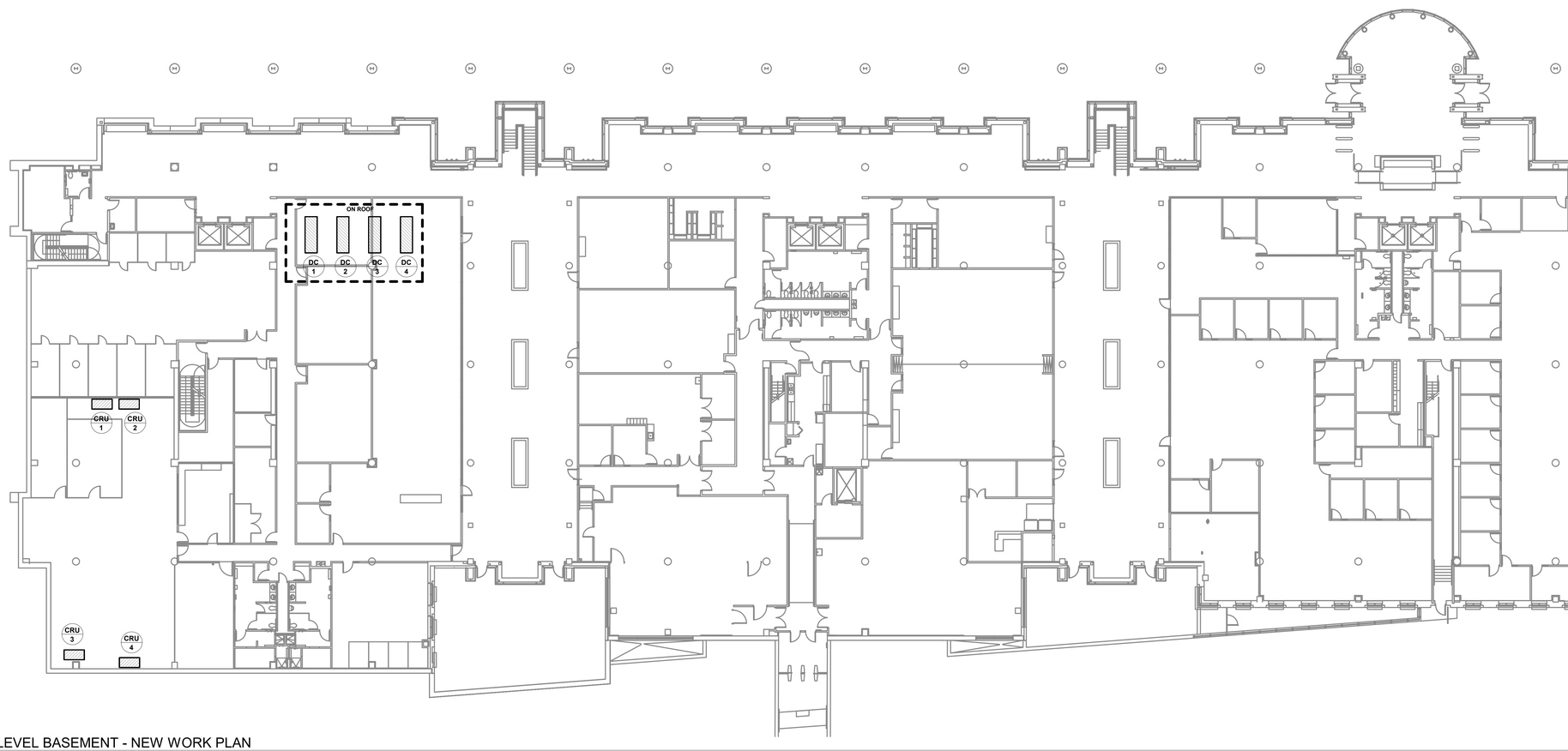

F1 FB - LEVEL BASEMENT - NEW WORK PLAN
1/16" = 1'-0"

M

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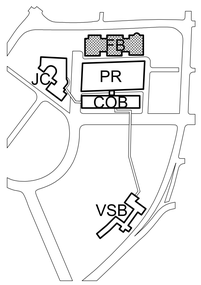

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M2.400

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AIR HANDLING UNIT SCHEDULE (AHU "X")

UNIT NO.	SERVES	MANUFAC.	MODEL NO.	UNIT TYPE	TOTAL CFM	OUTDOOR AIR			SUPPLY FAN										HEATING COIL								FILTERS		REMARKS
						CO2 MIN	CO2 MAX	ECON	FAN #	SYSTEM DESIGN CFM	FAN TYPE	FAN SIZE	TOTAL S.P.	EXTERNAL S.P.	RPM	SYSTEM DESIGN BHP	MAX BHP	MOTOR HP	VFD	VOLTS/PH	COIL TYPE	PIPING TYPE	COIL #	ENT AIR	LVG AIR	SENS. MBH	TOTAL MBH	TOTAL GPM	CONTROL VALVE	PRE TYPE	FINAL TYPE	
AHU-1	VETS TUNNEL	YORK	XTI		6000									2.0				7.5	YES	460/3				40	85.3		294	20.9		MERV-	MERV-	
AHU-2	JUDICIAL TUNNEL	YORK	XTI		3000									2.0				5	YES	460/3				40	85.1		146	10.3				

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. SMOKE DETECTORS ARE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATIONS.
3. REFER TO DETAIL SHEETS FOR COIL PIPING CONNECTIONS.
4. REFER TO SECTIONS OF UNITS ON MECHANICAL ROOM SHEETS FOR UNIT COMPONENTS.
5. ENTERING HOT WATER TEMPERATURE IS 140° F, LEAVING TEMPERATURE IS 110° F. UNIT IS SELECTED BASED ON 35% PROPYLENE GLYCOL.
7. PROVIDE ACCESS SECTION BETWEEN HEATING AND COOLING COILS.
8. SUPPLY AND RETURN/RELIEF FANS INDICATED ARE CONTROLLED BY VARIABLE FREQUENCY DRIVES PROVIDED BY THE BUILDING AUTOMATION SYSTEM CONTRACTOR. ALL VARIABLE FREQUENCY DRIVES FOR THE ENTIRE PROJECT SHALL BE BY THE SAME MANUFACTURER.
9. PROVIDE INTERTWINED CIRCUITING ON DX COIL.
10. PROVIDE UNIT WITH MINIMUM 6" BASERAIL. PROVIDE ADDITIONAL BASERAIL HEIGHT AS REQUIRED SUCH THAT THE CONDENSATE DRAIN CONNECTION IS AT LEAST X" ABOVE THE FINISHED FLOOR. REFER TO THE PLANS FOR THE CONCRETE PAD HEIGHT. REFER TO THE CONDENSATE DRAIN PIPING DETAIL.
11. REFER TO THE ENERGY RECOVERY UNIT SCHEDULE FOR THE ASSOCIATED ENERGY RECOVERY SECTION OF THE AIR HANDLING UNIT.

RETURN AND TRANSFER FAN SCHEDULE (RF "X") (TF "X")

UNIT NO.	SERVES	LOCATION	MANUFACTURER	MODEL NO.	TYPE	CFM	TOTAL S.P. W.C.	DRIVE	MOTOR	RPM	HP	VOLTS/ PHASE	MAKE-UP AIR SOURCE	MOTORIZED DAMPER	CONTROL				REMARKS
															BAS TIME OF DAY	BAS TIMED PUSH BUTTON	BAS TEMPERATURE SENSOR	OTHER - REFER TO SPECIFICATION	
RF-1	AHU-1				INLINE	6000	2	BELT	VFD		7.5	460/3							
RF-2	AHU-2				INLINE	3000	2	BELT	VFD		5	460/3							
TF-1	GARAGE ELECTRICAL ROOM				INLINE	180	180	DIRECT	EC		0.5	120/1							

NOTES:
1. 120/1 VOLT FANS SHALL BE PROVIDED WITH A FACTORY MOUNTED DISCONNECT SWITCH.
2. 120/1 VOLT FANS THAT ARE NOT PROVIDED WITH SPEED ADJUSTABLE EC MOTORS SHALL HAVE A FACTORY MOUNTED SPEED SWITCH IN MOTOR COMPARTMENT FOR BALANCING.
3. PROVIDE WITH A GRAVITY BACK DRAFT DAMPER UNLESS A MOTORIZED DAMPER IS INDICATED TO BE PROVIDED.
4. WHERE MOTORIZED DAMPERS ARE INDICATED, THE DAMPERS AND ACTUATORS SHALL BE PROVIDED BY THE BAS CONTRACTOR AND INSTALLED BY DIV 23 CONTRACTOR.
5. PROVIDE WITH VARIABLE SPEED DRIVE. INSTALLED BY DIV 26. COORDINATE INSTALLATION LOCATION.
6. INLINE FANS SHALL BE PROVIDED HANGER TYPE VIBRATION ISOLATORS.

INTAKE AND RELIEF HOOD SCHEDULE (IH "X") (RH "X")

UNIT NO.	SERVES	MANUFACTURER	MODEL NUMBER	TYPE	CFM	MAX. SP IN W.C.	THROAT SIZE	BACKDRAFT DAMPER (YES/NO)	REMARKS
IH-1	AHU-1	COOK	GI 30X36		6000				
IH-2	AHU-2	COOK	GI 30X30		3000				
RH-1	AHU-1	COOK	GR 18X30		6000				
RH-2	AHU-2	COOK	GR 18X24		3000				

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. ALL INTAKE AND RELIEF HOODS ARE SHALL HAVE LOCKABLE HINGED OPENINGS.

PUMP SCHEDULE (P "X")

UNIT NO.	SERVES	LOCATION	MANUFACTURER	SERIES	MODEL NUMBER	TYPE	DESIGN GPM	DESIGN HEAD	50% FLOW HEAD	SHUTOFF HEAD	IMP. SIZE	EFF.	SUC. SIZE	DISCH. SIZE	MOTOR					REMARKS
															RPM	H.P.	VOLTS	PHASE	VFD	
P-1	VETS HX		B&G	E80			20.9									2	208/3			
P-2	VETS HX		B&G	E80			20.9									2	208/3			
P-3	JUDICIAL HX		B&G	E80			10.3									2	208/3			
P-4	JUDICIAL HX		B&G	E80			10.3									2	208/3			

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PROVIDE AND INSTALL A STRAP-ON LINE VOLTAGE AQUASTAT TO CYCLE PUMP. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR FOR WIRING.
3. VARIABLE FREQUENCY DRIVES SHALL BE PROVIDED BY THE BUILDING AUTOMATION SYSTEM CONTRACTOR. ALL VARIABLE FREQUENCY DRIVES FOR THE ENTIRE PROJECT SHALL BE BY THE SAME MANUFACTURER.

AIR SEPARATOR SCHEDULE (AS "X")

UNIT NO.	SERVES	MANUFACTURER	MODEL NUMBER	MAX. GPM	IN/LET/OUTLET SIZE	BLOWDOWN SIZE	REMARKS
AS-1		B&G	RL-2				
AS-2		B&G	RL-2				

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PROVIDE AUTOMATIC AIR VENT PIPED TO NEAREST FLOOR DRAIN.

EXPANSION TANK SCHEDULE (ET "X")

UNIT NO.	SERVES	MANUFACTURER	MODEL NUMBER	TANK TYPE	AVERAGE WATER TEMP.	MINIMUM PRECHARGE PRESS (PSIG)	MAXIMUM OPER. PRESSURE (PSIG)	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	TANK HEIGHT	TANK DIA.	REMARKS
ET-1		B&G	B-100									
ET-2		B&G	B-100									

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PROVIDE AUTOMATIC AIR VENT PIPED TO NEAREST FLOOR DRAIN.

HEAT EXCHANGER SCHEDULE (HX "X")

UNIT NO.	SERVES	LOCATION	MANUFACTURER	MODEL NO.	WORKING PRESSURE	PRIMARY (DISTRICT ENERGY)				SECONDARY				REMARKS
						EWT	LWT	GPM	PD (PSI)	EWT	LWT	GPM	PD (PSI)	
HX-1			B&G	BP412-40	-	-	-	-	-	-	-	30.0	-	-
HX-2			B&G	BP400-30	-	-	-	-	-	-	-	10.3	-	

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PROVIDE MANHOLE AND HANDHOLE OPENINGS WITH CATHODIC PROTECTION.
3. HEAT EXCHANGER SHALL BE WATER TO WATER DOUBLE WALL CONSTRUCTION.

FAN COIL UNIT SCHEDULE (FC "X")

UNIT NO.	TYPE	CFM @ HIGH SPEED	MIN OA	ELEC HEATING DATA							FAN DATA				REMARKS
				KW	LAT	EWT	LWT	MBH	GPM	MAX P.D.	VOLTS	PHASE	HP	MOTOR TYPE	
FC-1		530		10							208	3	1		

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

SPLIT SYSTEM AIR CONDITIONER SCHEDULE (SS "X")

UNIT NO.	SERVES	MANUFAC.	MODEL NO.	UNIT TYPE	INDOOR EVAPORATOR						OUTDOOR AIR COOLED CONDENSER							REMARKS
					TOTAL MBH	COIL TYPE	COIL ROWS	HP	V/PH	MCA	MODEL NO	COMPRESSOR TYPE	V/PH	MCA	CIRCUITS	STAGES	EER	
SS-1	PARKING GARAGE IT	MITSUBISHI	PKA-A18HA7	WALL MOUNTED CASSETTE	18	-	-	30W	208/1	-	PUY-A18NKA7	-	208/1	11	1	1		

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

COMPUTER ROOM UNIT SCHEDULE (CRU "X")

UNIT NO.	SERVES	MANUFAC.	MODEL NO.	UNIT TYPE	CFM	SUPPLY FAN					COOLING COIL						FILTER TYPE	REMARKS
						CFM	EXT S.P.	HP	VOLTS	PHASE	COIL TYPE	COIL ROWS	ENT AIR	LVG AIR	SENS. MBH	TOTAL MBH		
CRU-1	FREEMAN BUILDING SERVER ROOM	LIEBERT	DS-035	-	-	-	-	-	-	-	-	-	-	-	-	120	-	
CRU-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CRU-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CRU-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

DRY COOLER SCHEDULE (DC "X")

UNIT NO.	SERVES	MFGR	MODEL NUMBER	NOMINAL HEAT REJ	FLOW RATE	VOLTS	PHASE	FLA	REFRIG	REMARKS
DC-1	FREEMAN SERVER	LIEBERT	D-174	173 MBH						
DC-2	-		-	-						
DC-3										
DC-4										

NOTES:
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Date: 10/3/25
Drawn: RR
Check: PJ
North

MECHANICAL SCHEDULES

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

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

M3.100

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MN

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
	GENERAL ELECTRICAL SYMBOLS
	A. DEVICES SHALL BE MOUNTED AT THE HEIGHT INDICATED, UNLESS NOTED OTHERWISE. HEIGHTS ARE MEASURED TO FROM DEVICE CENTER TO FINISHED FLOOR. DEVICES MOUNTED IN BLOCK/BRICK WALLS SHALL CORRESPOND WITH BLOCK/BRICK COURSING. SEE MASONRY BACKBOX MOUNTING HEIGHT DETAIL.
	B. ALL MOUNTING HEIGHTS INDICATED ARE FROM THE FINISH FLOOR TO THE CENTER OF THE BOX.
	C. ON DEMOLITION DRAWINGS, DASHED ELECTRICAL ITEMS DENOTES EXISTING ITEMS TO BE REMOVED; SOLID SCREENED ELECTRICAL ITEMS DENOTES EXISTING ITEMS TO REMAIN, UNLESS NOTED OTHERWISE
	D. ON NEW WORK LIGHTING, POWER AND SYSTEMS DRAWINGS, SCREENED ELECTRICAL ITEMS DENOTES EXISTING ITEMS TO REMAIN; SOLID ELECTRICAL ITEMS DENOTES NEW ITEMS, UNLESS NOTED OTHERWISE
DEVICES TO BE DEMOLISHED:	
EXISING DEVICES TO REMAIN:	
NEW DEVICES:	
#	KEYED NOTE.
#	FEEDER OR EQUIPMENT DRAWING NOTE.
# / E#	ELEVATION, SEE DETAIL # ON SHEET E#
	POWER DISTRIBUTION AND EQUIPMENT
	SWITCHBOARD WITH CONCRETE PAD; FLOOR MOUNTED.
	RELAY/CONNECTION CABINET; WALL MOUNTED, WITH TOP AT 72" AFF
	PANELBOARD; WALL MOUNTED WITH TOP AT 78" AFF.
ATS	AUTOMATIC TRANSFER SWITCH; WALL OR FLOOR MOUNTED.
T	TRANSFORMER, WITH SIZE AS NOTED. SEE RISER DIAGRAM, SCHEDULE OR FLOOR PLANS; VERIFY.
PB	PULLBOX
HH	HANDHOLE
MCC	MOTOR CONTROL CENTER (W/CONCRETE PAD); FLOOR MOUNTED.
H	PLUG-IN BUS DUCT SWITCH; SIZE AS INDICATED AND SPECIFIED. VERIFY MOUNTING HEIGHT.
M	METER/SOCKET ASSEMBLY; MOUNT TOP AT 72" AFF
	BRANCH CIRCUIT, FEEDER, AND RACEWAY
	INDICATES CONDUIT ROUTED BELOW, IN FLOOR STRUCTURE, BELOW GRADE, OR AS NOTED.
	GROUND
	INDICATES CONDUIT IS SURFACE MOUNTED
	INDICATES CONDUIT ROUTED CONCEALED ABOVE FLOOR OR GRADE (IN CEILING OR WALL)
	INDICATES CONDUIT UP
	INDICATES CONDUIT DOWN
	CONDUIT STUB - TERMINATION INDICATED BY NOTE
	CONDUIT CONTINUATION
SL#	CONDUIT SLEEVE WITH BUSHINGS ON BOTH ENDS, SEE SCHEDULE FOR QUANTITIES AND SIZES OF SLEEVES
12"X4"	CABLE TRAY (WIDTH X DEPTH)
1"C.3#4+1#3G	INDICATES 1" CONDUIT, (3) NO. 4 AWG CONDUCTORS AND (1) NO. 3 GROUND WIRE
	SURFACE RACEWAY ASSEMBLY. PROVIDE AS SPECIFIED, UNLESS NOTED OTHERWISE.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	LIGHTING	
	RECESSED LUMINAIRE (TYPE DENOTED)	
	SURFACE MOUNTED LUMINAIRE (TYPE DENOTED)	
	LUMINAIRE ON EMERGENCY CIRCUIT, SWITCHED	
	LUMINAIRE ON EMERGENCY CIRCUIT, UNSWITCHED	
	STRIP LIGHT LUMINAIRE; FOR SUSPENDED MOUNTING HEIGHTS, SEE DRAWINGS.	
	WALL MOUNTED LUMINAIRE; SEE REFLECTED CEILING PLAN FOR MOUNTING HEIGHT.	
	LINEAR PENDANT LUMINAIRE; FOR SUSPENDED MOUNTING HEIGHTS, SEE DRAWINGS.	
	CIRCULAR PENDANT LUMINAIRE; FOR SUSPENDED MOUNTING HEIGHTS, SEE DRAWINGS.	
	TRACK LIGHT LUMINAIRE (WITH HEADS OR PENDANTS); LENGTH AND MOUNTING AS NOTED ON DRAWINGS.	
	EXIT LIGHT-FACE SHOWN SHADED; PLAN INDICATES CEILING OR WALL MOUNTING, DIRECTIONAL ARROWS, AND COMBINATION LIGHTS.	
	EMERGENCY LIGHTING UNIT - TWO HEAD MOUNTING AS INDICATED ON DRAWINGS.	
	POLE MOUNTED SITE LUMINAIRE - SINGLE SQUARE HEAD. NUMBER OF HEADS AS SHOWN.	
	POLE MOUNTED SITE LUMINAIRE - PEDESTRIAN OR BOLLARD STYLE.	
	LIGHTING CONTROL	
#	SWITCHING NOTATION. ## INDICATES THE FOLLOWING: 3 THREE-WAY 4 FOUR-WAY D DIMMER K KEYED LV LOW VOLTAGE MC MOMENTARY CONTACT PL PILOT LIGHT TD TIME DELAY EACH SYMBOL DENOTES A SINGLE POLE LIGHT SWITCH WHEN MULTIPLE SWITCHES ARE SHOWN, LOCATE ALL UNDER SINGLE MULTI-SWITCH COVERPLATE.	46"
L PC / L PC	PHOTOCELL - WALL, CEILING, OR ROOF MOUNTED; SEE DRAWINGS.	
L OS / L OS	OCCUPANCY SENSOR - WALL OR CEILING CEILING MOUNT. REFER TO LIGHTING CONTROL SCHEDULE FOR OPERATION INFORMATION.	46"
R / R	EMERGENCY LIGHTING RELAY (UL 924) - SEE WIRING SCHEMATIC ON DETAIL SHEETS.	
B # / B #	EMERGENCY BATTERY UNIT - WALL MOUNTED JUST BELOW CEILING, OR MOUNTED ABOVE ACCESSIBLE CEILING. 90 MINUTE RUNTIME, OR AS INDICATED ON PLANS. M = MINUTE, H = HOUR.	
	SECURITY DEVICES	
XX S	SECURITY DEVICE. xx INDICATES THE FOLLOWING: CM CONTROL MODULE DC DOOR CONTACTS (MONITORING) EL ELECTRIC LOCK/LATCH ES ELECTRIC STRIKE GB GLASS BREAK DETECTOR IR INFARED DETECTOR ML MAGNETIC LOCK REX REQUEST TO EXIT XP EXIT PUSHBUTTON, MOUNT AT ADA HT	
CR S / CRK S	CR = CARD READER ROUGH-IN AT ADA HEIGHT CRK = CARD READER WITH INTEGRADED KEY PAD REFER TO DETAILS.	46"
DR S	DOOR RELEASE; MOUNT PER DWGS.	46"
I S / VI S	VIDEO INTERCOM WITH INTEGRATED DOOR RELEASE; MOUNT WITH ACTIVATION BUTTON AT MAXIMUM 48" (BUTTON LOCATION VARIES BY DEVICE MANUFACTURER). WALL MOUNT, 1" CONDUIT TO ACCESSIBLE CEILING. REFER TO DETAIL. I = INTERCOM; VI = VIDEO INTERCOM;	
KP S	KEYPAD; VERIFY MOUNTING HEIGHT WITH DWGS.	46"
DB S / S	DURESS BUTTON SECURITY STROBE	46"
MC S	MASTER CONTROL STATION	
MD S / MD S	MOTION DETECTOR; ARROW INDICATES DIRECTION. (WALL OR CEILING MOUNTED).	
CS S	CONTROL SWITCH - INTERVIEW ROOM ACTIVITY. REFER TO DETAIL.	46"
IL S / IL S	INDICATOR LIGHT - INTERVIEW ROOM ACTIVITY. REFER TO DETAIL.	
S / S	SURVEILLANCE CAMERA. (WALL OR CEILING MOUNTED, 1"C. BUSHED EMT TO ACCESSIBLE CEILING).	
S / S	MULTI-LENS SURVEILLANCE CAMERA. (WALL OR CEILING MOUNTED, 1"C. BUSHED EMT TO ACCESSIBLE CEILING).	

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	COMMUNICATION DEVICES	
S / S xx	PAGING/INTERCOM SPEAKER HORN ASSEMBLY- P.A. OR AS INDICATED xx INDICATES THE FOLLOWING: WG = WIREGUARD, PA = P.A. SYSTEM. (34"C. BUSHED EMT TO ACCESSIBLE CEILING).	90"
S / S xx	LOUD SPEAKER HORN ASSEMBLY; VERIFY MOUNTING HEIGHT. xx INDICATES THE FOLLOWING: WG = WIREGUARD, PA = P.A. SYSTEM. (34"C. BUSHED EMT TO ACCESSIBLE CEILING).	
S / S Z# / S xx	SPEAKER WITH BACKBOX (WALL OR CEILING). xx INDICATES THE FOLLOWING: PA = P.A. SYSTEM, V = WITH INTEGRAL VOLUME CONTROL, Z# = ZONE NUMBER. AV = REFER TO A/V SYMBOLS. (34"C. BUSHED EMT TO ACCESSIBLE CEILING). MOUNT 12" BELOW CEILING OR AS INDICATED ON PLANS.	
xx I	INTERCOM. x INDICATES THE FOLLOWING: M = MASTER STATION. IC = REFER TO A/V SYMBOLS. HS = REFER TO A/V SYMBOLS. (1/2"C. BUSHED EMT TO ACCESSIBLE CEILING).	TOP AT 46" AFF
V	VOLUME CONTROL. (1/2"C. BUSHED EMT TO ACCESSIBLE CEILING).	46"
	CALL BACK SWITCH. (1/2"C. BUSHED EMT TO ACCESSIBLE CEILING).	46"
C / C D	CLOCK OUTLET. (34"C. BUSHED EMT TO ACCESSIBLE CEILING FOR WIRED CLOCKS ONLY). D = DOUBLE FACED	90"
B	BELL/AUDIBLE DEVICE. (34"C. BUSHED EMT TO ACCESSIBLE CEILING).	90"
D#	WALL DATA AND COMMUNICATIONS OUTLET: (BUSHED EMT TO ACCESSIBLE CEILING SPACE OR AS INDICATED). D# INDICATES TYPE OF OUTLET. SEE DETAIL SHEETS.	18"
D# / WAP	CEILING DATA OUTLET AND WIRELESS ACCESS POINT: (BUSHED EMT TO ACCESSIBLE CEILING SPACE OR AS INDICATED). D# INDICATES TYPE OF OUTLET. SEE DETAIL SHEETS.	
RS	WALL MOUNT DATA OUTLET FOR ROOM SCHEDULING EQUIPMENT. REFER TO DETAILS.	46"
W	WALL PHONE COMMUNICATIONS OUTLET: (1" BUSHED EMT TO ACCESSIBLE CEILING SPACE). SEE DETAIL SHEETS	46"
A	DISTRIBUTED ANTENNA SYSTEM (DAS) ANTENNA.	CLG
	FIRE ALARM DEVICES	
FAAP	FIRE ALARM ANNUNCIATOR PANEL;	TOP AT 60" AFF
FACP	FIRE ALARM CONTROL PANEL (MASTER);	TOP AT 68" AFF
NAC	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL. MOUNT TOP 62" AFF PLUS OR MINUS 2".	TOP AT 62 ± 2" AFF
F	FIRE ALARM MANUAL PULL STATION.	46"
F	FIRE ALARM HORN (AUDIBLE), WALL MOUNTED.	84"
B F / F	FIRE ALARM CHIME (WP FOR EXTERIOR MOUNTING). B = BELL.	84"
xx F / xx F	FIRE ALARM STROBE (VISUAL) DEVICE (WALL OR CEILING MOUNTED). xx INDICATES THE FOLLOWING: WG=WIRE GUARD, WP=WEATHER PROOF	84", CLNG
xx F / xx F	FIRE ALARM HORN/STROBE (COMBINATION) (WALL OR CEILING MOUNTED). xx INDICATES THE FOLLOWING: WG=WIRE GUARD; WP=WEATHER PROOF	84", CLNG
xx S F / xx S F	FIRE ALARM SPEAKER/STROBE (COMBINATION) (WALL OR CEILING MOUNTED). xx INDICATES THE FOLLOWING: WG=WIRE GUARD; WP=WEATHER PROOF	84", CLNG
xx S F / xx S F	FIRE ALARM SPEAKER (WALL OR CEILING MOUNTED). xx INDICATES THE FOLLOWING: WG=WIRE GUARD; WP=WEATHER PROOF	84", CLNG
F	FIREMAN PHONE JACK; MOUNT TOP 54" AFF PLUS OR MINUS 2".	
D F	MAGNETIC DOOR HOLD-OPEN (WALL MOUNTED); MOUNT PER DWGS.	
FL F	SPRINKLER FLOW-SWITCH; MOUNT PER DWGS.	
TS F	SPRINKLER TAMPER-SWITCH; MOUNT PER DWGS.	
F S-CO / F S-H	SMOKE DETECTOR-CEILING MOUNTED. S-CO = COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR S-H - COMBINATION SMOKE AND HEAT DETECTOR	
H #	HEAT DETECTOR (RATE-OF-RISE). # = FIXTED TEMPERATURE - CEILING MOUNTED.	
SD F	DUCT SMOKE DETECTOR; MOUNT PER DWGS.	
I F	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE; MOUNT PER DWGS.	
CM F	FIRE ALARM CONTROL MODULE; MOUNT PER DWGS.	
F/S F	FIRE/SMOKE DAMPER; MOUNT PER DWGS.	

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	POWER AND MOTOR DEVICES	
xx	RECEPTACLE NOTATION. xx INDICATES THE FOLLOWING: AB ABOVE COUNTER, BOTTOM OF BOX 2" ABOVE BACKSPLASH IG ISOLATED GROUND GFI INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER GFI CB GROUND FAULT CIRCUIT INTERRUPTER IN CIRCUIT BREAKER TR TAMPER RESISTANT USB (2) USB PORTS INTEGRAL WITH RECEPTACLE WP WEATHERPROOF	
	SURFACE MOUNTED DUPLEX / QUAD RECEPTACLES AND DATA OUTLETS	
	RECEPTACLES WITH GROUND FAULT CIRCUIT INTERRUPTER	
	DUPLEX RECEPTACLE ON NORMAL CIRCUIT	18"
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	18"
	RECEPTACLE (SINGLE)	18"
	DOUBLE DUPLEX RECEPTACLE (QUAD) ON NORMAL CIRCUIT	18"
	DOUBLE DUPLEX RECEPTACLE (QUAD) ON EMERGENCY CIRCUIT	18"
	SPECIAL PURPOSE OUTLET; RECESSED, MOUNT PER DWGS.	18"
	RECESSED CEILING MOUNTED SINGLE OR DUPLEX RECEPTACLE W/ ADDITIONAL 10' FLEX MC/AC SLACK (COILED); FOR FUTURE DEVICE RELOCATION.	
	USB ONLY DEVICE. (4) USB CHARGING PORTS	18"
J / J	CEILING OR WALL MOUNTED JUNCTION BOX WITH REQUIRED COVERPLATE - PLAN INDICATES FUNCTION	CLG, 18"
MSP	MOTOR RATED SWITCH AND PILOT.	46"
MS	MOTOR RATED SWITCH.	46"
MSS	MOTOR STARTER SWITCH WITH MOTOR RUNNING PROTECTION (ADD RELAY IF CONTROL CONTACTS ARE REQUIRED).	46"
	DISCONNECT SWITCH - NON FUSED.	6'-0"
	DISCONNECT SWITCH - FUSED.	6'-0"
	MOTOR STARTER.	6'-0"
	COMBINATION STARTER/DISCONNECT SWITCH.	6'-0"
	PUSHBUTTON - WALL MOUNTED.	30" - 36"
ADA	PUSHBUTTON - WALL MOUNTED.	33" EXTERIOR 42" INTERIOR
P	POWER POLE (DEVICES AS INDICATED)	
	MOTOR, SEE MOTOR AND EQUIPMENT SCHEDULE	
PT# / FB#	POKE-THROUGH (PT) OR FLOOR BOX (FB). FULLY RECESSED IN FLOOR. REFER TO POKE-THROUGH AND FLOOR BOX SCHEDULE.	FLR
	WALL MOUNTED FURNITURE FEED. PROVIDE 1-1/4"C MINIMUM FOR DATA / AV.	18"
	CORD REEL / CORD AND PLUG SET - CEILING MOUNTED. SEE PLANS FOR MORE INFORMATION.	
G	UPSTREAM DEAD FRONT GFI REMOTE TEST STATION	46"
	NURSE CALL DEVICES	
x N	NURSE CALL SYSTEM DEVICE. 4" SQUARE BOX WITH 3/4"C. BUSHED EMT TO ACCESSIBLE CEILING, UNO. x INDICATES THE FOLLOWING: A = STAFF ASSIST REQUEST B = CODE BLUE D = DUTY STATION, 3-GANG BOX E = EMERGENCY (PULLCORD) E1 = EMERGENCY (PUSHBUTTON) L = DOME LIGHT, ABOVE DOOR HEADER M = MASTER STATION, 1-GANG BELOW COUNTER TOP M1 = MASTER STATION WALL-MOUNTED, 3-GANG BOX P = PATIENT, 3-GANG BOX P1 = PATIENT W/ EXTRA JACK FOR PILLOW SPEAKER, 3-GANG BOX R = RELAY, 4-GANG BOX S = STAFF RESPONDER, 3-GANG BOX T = TV, MOUNT SAME HEIGHT AS ADJACENT RECEPTACLE	46"
N	DOME LIGHT, CEILING MOUNTED.	
xx W	WANDERING PATIENT DEVICE; MOUNT PER DWGS. xxx INDICATES THE FOLLOWING: KP = KEYPAD RX = RECIEVER	42"
xx W	WANDER ALERT SENSOR; MOUNT ABOVE CEILING. xx INDICATES THE FOLLOWING: ML=MAG LOCK; DC= DOOR CONTACT.	

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	AUDIO / VIDEO DEVICES	
M / M HA	MICROPHONE OUTLET (WALL, CEILING, OR HANGING). HA = HANGING. 1 GANG J-BOX AT CEILING DECK OR AS NOTED. (1/2"C. BUSHED EMT TO ACCESSIBLE CEILING).	18"
A	AUXILIARY INPUT CONNECTOR. (1/2"C. BUSHED EMT TO ACCESSIBLE CEILING).	18"
# TV / TV	COMMUNICATIONS OUTLET FOR TV (WALL OR CEILING). (BUSHED EMT TO ACCESSIBLE CEILING SPACE OR AS INDICATED). # = SEE DETAIL SHEETS.	60"
C / C	TV/VIDEO CAMERA, CLOSED CIRCUIT (WALL OR CEILING MOUNTED, (1"C. BUSHED EMT TO ACCESSIBLE CEILING). MOUNT PER DRAWINGS. CAMERA BY OTHERS.	
AVR-# AV	A/V WALL OR DESK MOUNTED EQUIPMENT RACK OR CABINET. REFER TO A/V DETAILS. AVR-# DENOTES RACK NUMBER.	
AVR-# AV	A/V FLOOR MOUNTED EQUIPMENT CABINET. REFER TO A/V DETAILS. AVR-# DENOTES RACK NUMBER.	
AV J / AV J	CEILING OR WALL MOUNTED A/V JUNCTION BOX. REFER TO KEYNOTE FOR DIMENSIONS AND ADDITIONAL INFORMATION.	
CP AV	A/V CONTROL PANEL (TOUCHSCREEN OR BUTTON PANEL). WALL MOUNTED. REFER TO KEYNOTE.	56" / VERIFY
WP AV	A/V WALL INPUT WALLPLATE/TRANSMITTER. REFER TO A/V DETAILS.	18"
AV	A/V INPUT IN FURNITURE. REFER TO A/V DETAILS.	
TP-# AV	A/V TECH I/O PANEL (NUMBER). REFER TO A/V PANEL DETAILS FOR DIMENSIONS AND ADDITIONAL INFORMATION.	
ANT AV	ANTENNA J-BOX/WALLPLATE, 1-GANG, FOR WIRELESS MICS OR A.L.S. REFER TO A/V WALLPLATE DETAILS.	
CAM AV	PRODUCTION PT/TZ CAMERA AND J-BOX/WALLPLATE. REFER TO A/V WALLPLATE DETAILS.	
HS I	PRODUCTION INTERCOM HEADSET STATION.	
IC I	PRODUCTION INTERCOM OUTLET WALLPLATE. REFER TO A/V WALLPLATE DETAILS.	
P / P	CEILING OR WALL-MOUNT PROJECTOR. REFER TO A/V DETAILS.	
SC	PROJECTION SCREEN - LOW VOLTAGE CONNECTION	
AV S Z# / AV S Z#	CEILING OR WALL-MOUNT A/V SPEAKER. FLUSH-MOUNT. Z: ZONE #.	
AVP S Z#	CEILING MOUNTED A/V SPEAKER. PENDANT MOUNT. Z: ZONE #.	
S	SUSPENDED SPEAKER ENCLOSURE OR ARRAY, AND RIGGING. REFER TO A/V DETAILS.	
CC	RECESSED CABLE ENCLOSURE IN FURNITURE.	

ELECTRICAL DRAWINGS

E0.000	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E0.100	OVERALL PLAN
E1.000a	COB - LEVEL SUB-BASEMENT - ELECTRICAL DEMOLITION PLAN
E1.000b	COB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
E1.001a	COB - LEVEL GROUND - ELECTRICAL DEMOLITION PLAN
E1.001b	COB - LEVEL 1 - ELECTRICAL DEMOLITION PLAN
E1.100	PARKING RAMP - LEVEL 0 - ELECTRICAL DEMOLITION PLAN
E1.101	PARKING RAMP - LEVEL 1 - ELECTRICAL DEMOLITION PLAN
E1.102	PARKING RAMP - LEVEL 2 - ELECTRICAL DEMOLITION PLAN
E1.103	PARKING RAMP - LEVEL 3 - ELECTRICAL DEMOLITION PLAN
E1.104	PARKING RAMP - LEVEL 4 - ELECTRICAL DEMOLITION PLAN
E1.200	JC - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
E1.300	VSB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
E1.400	FB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
E2.000a	COB - LEVEL SUB-BASEMENT - ELECTRICAL PLAN
E2.000b	COB - LEVEL BASEMENT - ELECTRICAL PLAN
E2.100	PARKING RAMP - LEVEL 0 - ELECTRICAL PLAN
E2.101	PARKING RAMP - LEVEL 1 - ELECTRICAL PLAN
E2.200	JC - LEVEL BASEMENT - ELECTRICAL PLAN
E2.300	VSB - LEVEL BASEMENT - ELECTRICAL PLAN
E2.400	FB - LEVEL BASEMENT - ELECTRICAL PLAN
E3.100	PARKING RAMP - LEVEL 0 - SYSTEMS PLAN
E3.101	PARKING RAMP - LEVEL 1 - SYSTEMS PLAN
E3.102	PARKING RAMP - LEVEL 2 - SYSTEMS PLAN
E3.103	PARKING RAMP - LEVEL 3 - SYSTEMS PLAN
E3.104	PARKING RAMP - LEVEL 4 - SYSTEMS PLAN
E3.200	OVERALL SITE SYSTEMS CABLE PATHWAY - SYSTEMS PLAN
E4.000	ELECTRICAL RISER DIAGRAMS
E7.10	ELECTRICAL DETAILS - SYSTEMS
E7.11	ELECTRICAL DETAILS - SYSTEMS
E7.12	ELECTRICAL DETAILS - SYSTEMS

GENERAL ELECTRICAL NOTES

A. INSTALL CONCEALED CONDUIT WITH FLUSH J.B.'S IN WALLS AND CEILINGS UNLESS NOTED OTHERWISE. IN FINISHED AREAS WITH INACCESSIBLE WALLS OR CEILINGS, PROVIDE SURFACE (WIREMOLD) RACEWAY; PAINT TO MATCH COLOR OF ADJACENT WALL OR CEILING.
B. RACEWAYS SHALL CONTAIN A GROUNDING CONDUCTOR.
C. CIRCUITS SUPPLYING LINE TO NEUTRAL LOADS SHALL HAVE DEDICATED NEUTRALS, i.e. ONE NEUTRAL PER PHASE. NEUTRAL CONDUCTORS SHALL HAVE TRACER STRIPE ALONG ENTIRE LENGTH INDICATING ASSOCIATED PHASE.
D. BUILDING CONDUCTORS SHALL BE THWN/THHN. CONDUCTORS IN UNDERGROUND CONDUIT OUTSIDE OF BUILDINGS SHALL BE XHHW.
E. NUMBERS AT RECEPTACLES AND LIGHT FIXTURES CORRESPOND DIRECTLY WITH PANELBOARD CIRCUIT NUMBERS AS SCHEDULED. BRANCH CIRCUIT WIRING AND HOMERUNS ARE NOT SHOWN FOR CLARITY. ACCURATE RECORD DRAWING INFORMATION IS TO BE PROVIDED AT THE PROJECT COMPLETION. TYPICAL THROUGHOUT. REFER TO SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
F. REFER TO CONTRACT DOCUMENTS FOR SEQUENCE OF CONSTRUCTION AND PHASING OF THE CONTRACT.
G. SWITCHES SHALL BE MOUNTED PER ADA REQUIREMENTS, 46" AFF. UNLESS OTHERWISE NOTED, RECEPTACLES AND TELECOMMUNICATION OUTLETS IN FINISHED AREAS SHALL BE MOUNTED 18" AFF. RECEPTACLES IN UN-FINISHED SPACES SHALL BE MOUNTED AT 46" OR 4" ABOVE WORK SURFACE. COORDINATE RECEPTACLE MOUNTING HEIGHTS WITH MILLWORK LOCATIONS, ARCHITECTURAL ELEVATIONS, AND MASONRY COURSING.
H. CRITICAL DEVICES / EQUIPMENT, INCLUDING TELEPHONE, COMPUTER, SECURITY, AND FIRE ALARM, AFFECT ASSOCIATED SYSTEMS BUILDING-WIDE. THESE SYSTEMS MUST REMAIN OPERATIONAL DURING THE CONSTRUCTION. INDIVIDUAL DEVICES MAY BE DISCONNECTED AND/OR RECONNECTED DURING CONSTRUCTION. COORDINATE POWER OUTAGES WITH OWNER. PROVIDE TEMPORARY PANEL(S) AND/OR CIRCUIT(S) AS/IF NECESSARY TO MAINTAIN CONTINUITY. PROTECT FROM PHYSICAL AND DUST DAMAGE.
I. THE BUILDING SHALL MAINTAIN POWER THROUGHOUT THE CONSTRUCTION PROCESS. COORDINATE ENERGIZATION OF NEW EQUIPMENT AND THE CORRESPONDING RECONNECTION OF EXISTING AFFECTED ELECTRICAL DISTRIBUTION EQUIPMENT.
J. SEE RELATED PLUMBING AND HVAC DRAWINGS FOR LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. COORDINATE INTERCONNECTION REQUIREMENTS WITH EQUIPMENT SHOP DRAWINGS.
K. WIRING FOR MISCELLANEOUS HVAC DEVICES AND CONTROLLERS SUCH AS DAMPER MOTORS, THERMOSTATS, DUCT SMOKE DETECTORS, FREEZESTATS, DIFFERENTIAL PRESSURE SWITCHES, OCCUPIED AND UNOCCUPIED SELECTOR SWITCHES, ALARM LIGHTS, ETC., NOT SHOWN ON ELECTRICAL DRAWINGS IS DIVISION 23 WORK.
L. FIELD VERIFY EXISTING CONDITIONS. DISCREPANCIES BETWEEN THE DRAWING AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDS.
M. MAINTAIN EXISTING CIRCUIT CONTINUITY ON ALL SYSTEMS ON THE SITE THAT ARE EXISTING TO REMAIN.
N. PROVIDE ALL CONDUIT HOMERUNS AS 3/4"C. MIN.
O. COORDINATE ALL WORK WITH OTHER CONTRACTORS AND OWNER.
P. ALL CUTTING AND PATCHING FOR DIV. 26 WORK SHALL BE UNDER SUPERVISION AND APPROVAL OF ARCHITECT.
Q. REMOVE AND/OR REINSTALL ELECTRICAL DEVICES IN ALL AREAS OF WORK AS REQUIRED AND REPLACE ANY ELECTRICAL DEVICES DAMAGED BY WORK. NOT ALL DEVICES MAY BE SHOWN ON DRAWINGS.
R. PROVIDE ALL BOXES, FITTINGS, CONDUIT, WIRING, TERMINATIONS, EQUIPMENT, ETC, FOR A COMPLETE INSTALLATION.
S. BRANCH 20A CIRCUIT CONDUCTORS SHOULD BE SIZED AS FOLLOWS:

120V CCT LENGTH	277V CCT LENGTH	AWG
< 75'	< 130'	12
75' - 120'	130' - 215'	10
120' - 200'	215' - 330'	8

ELECTRICAL ABBREVIATIONS LIST

<	ANGLE	C	CONDUIT	J-BOX	JUNCTION BOX	N.C.	NORMALLY CLOSED	QUAN	QUANTITY	UE	UNDERGROUND ELECTRICAL
@	AT	CATV	CABLE TELEVISION			NEC	NATIONAL ELECTRICAL CODE	RCPT	RECEPTACLE	UG	UNDERGROUND
'	FEET	CB	CIRCUIT BREAKER	KV	KILOVOLT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	REQD	REQUIRED	UH	UNIT HEATER
"	INCHES	CCTV	CLOSED CIRCUIT TELEVISION	KVA	KILOVOLT-AMPERE	NFS	NON-FUSED SAFETY SWITCH	RL	RELOCATED	UNO	UNLESS NOTED OTHERWISE
#	NUMBER	CKT	CIRCUIT	KVAR	KILOVOLT-AMPERE REACTIVE	NIC	NOT IN CONTRACT	RSC	RIGID STEEL CONDUIT	UT	UNDERGROUND TELEPHONE
1P	1 POLE (2P, 3P, 4P, ETC.)	CLG	CEILING	KW	KILOWATT	NL	NEW LOCATION	RTU	ROOF TOP UNIT	UV	UNIT VENTILATOR OR ULTRAVIOLET
		CMPR	COMPRESSOR	KWH	KILOWATT HOUR	N.O.	NORMALLY OPEN			V	VOLT
A	AMPERE	CONN	CONNECTION			NPF	NORMAL POWER FACTOR	SC	SURFACE CONDUIT	VA	VOLT-AMPERES
AC	AIR CONDITIONER	CONT	CONTINUATION OR CONTINUOUS	LOC	LOCATE OR LOCATION	NTS	NOT TO SCALE	SEC	SECONDARY	VERT	VERTICAL
ACLG	ABOVE CEILING	CONTR	CONTRACTOR	LT	LIGHT			SHT	SHEET	VFD	VARIABLE FREQUENCY DRIVE
ADA	AUTOMATIC DOOR ACTUATOR	CONV	CONVECTOR	LTG	LIGHTING	OFE	OWNER FURNISHED EQUIPMENT	SIM	SIMILAR	VOL	VOLUME
ADO	AUTOMATIC DOOR OPERATOR	CP	CIRCULATING PUMP	LTNG	LIGHTNING	OH	OVERHEAD	S/N	SOLID NEUTRAL		
AFF	ABOVE FINISHED FLOOR	CT	CURRENT TRANSFORMER	LV	LOW VOLTAGE	OL	OVERLOADS	SPKR	SPEAKER	W	WATT
AFG	ABOVE FINISHED GRADE	CTR	CENTER					SP	SPARE	W/	WITH
AFI	ARC FAULT CIRCUIT INTERRUPTER	CU	COPPER	MAG.S	MAGNETIC STARTER	PA	PUBLIC ADDRESS	SR	SURFACE RACEWAY	WG	WIRE GUARD
AHU	AIR HANDLING UNIT			M/C	MOMENTARY CONTACT	PB	PULL BOX	SS	STAINLESS STEEL	WH	WATER HEATER
AL	ALUMINUM	DCP	DOMESTIC WATER CIRCULATING PUMP	MCB	MAIN CIRCUIT BREAKER	PE	PNEUMATIC ELECTRIC	SSW	SELECTOR SWITCH	W/O	WITHOUT
ALT	ALTERNATE			MCC	MOTOR CONTROL CENTER	PED	PEDESTAL	S/S	STOP/START PUSHBUTTONS	WP	WEATHERPROOF
AMP	AMPLIFIER	EX	EXISTING TO REMAIN	MDC	MAIN DISTRIBUTION CENTER	PF	POWER FACTOR	STA	STATION		
ANNUN	ANNUNCIATOR			MDP	MAIN DISTRIBUTION PANEL	PH	PHASE	STD	STANDARD	XFMR	TRANSFORMER
AQ-STAT	AQUASTAT	FOL	FIBER OPTIC LINE	MFR	MANUFACTURER	PNL	PANEL	SURF	SURFACE MOUNTED	XFR	TRANSFER
ATS	AUTOMATIC TRANSFER SWITCH	FS	FUSIBLE SWITCH	MFS	MAIN FUSED DISCONNECT SWITCH	PP	POWER POLE	SW	SWITCH		
AV	AUDIO VISUAL	FRN	FURNITURE	MLO	MAIN LUGS ONLY	PR	PAIR	SWBD	SWITCHBOARD		
AWG	AMERICAN WIRE GAUGE			MMS	MANUAL MOTOR STARTER	PRI	PRIMARY	SYM	SYMMETRICAL		
		HTR	HEATER	MOA	MULTI/OUTLET ASSEMBLY	PROJ	PROJECTION	TERM	TERMINAL		
BAT	BATTERY	HV	HIGH VOLTAGE	MSP	MOTOR STARTER PANELBOARD	PRV	POWER ROOF VENTILATOR	TL	TWIST LOCK		
BD	BOARD	HWP	HYDRONIC WATER PUMP	MSBD	MAIN SWITCHBOARD	PT	POTENTIAL TRANSFORMER	TR	TAMPER RESISTANT		
BLDG	BUILDING			MT	MOUNT	PVC	POLYVINYL CHLORIDE (CONDUIT)	T-STAT	THERMOSTAT		
BAS	BUILDING AUTOMATION SYSTEM	IC	INTERRUPTING CAPACITY	MT.C	EMPTY CONDUIT	PWR	POWER	TTC	TELEPHONE TERMINAL CABINET		
		IG	ISOLATED GROUND	MT

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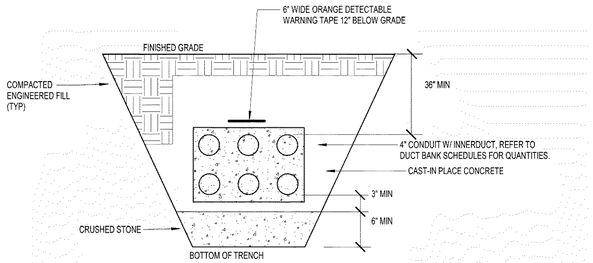


NOTES:
1. PROVIDE PULL LINE IN EACH SPARE CONDUIT.
2. PROVIDE WUNPEECE DUCT SPACERS WITH 2" SPACING BETWEEN CONDUITS. PROVIDE 6' O.C. TO MAINTAIN CONDUIT SPACING, BEGINNING 1'-0" FROM END OF DUCT.
3. MAINTAIN MINIMUM OF 12" CLEARANCE FROM OTHER UTILITIES (WATER, FIRE, COMMUNICATION, ETC) THAT ARE LOCATED IN THE SAME TRENCH.
4. SEE RISER DIAGRAMS FOR QUANTITIES AND SIZES OF EACH CONDUIT.

B3 DUCT BANK DETAIL - CONCRETE ENCASED
N.T.S.

GENERAL SHEET NOTES

A. THIS SHEET IS INTENDED FOR REFERENCE AND ORIENTATION ONLY, UNLESS OTHERWISE NOTED.

B. REFER TO OTHER SHEETS FOR MORE DETAILED INFORMATION.

C. REMOVE AND REINSTALL CEILING TILES AS REQUIRED TO ACCOMMODATE ABOVE CEILING WORK IN AREAS WHERE CEILINGS ARE NOT REPLACED. PROVIDE NEW TILES TO REPLACE ANY DAMAGED DURING WORK.

D. PRECAST CONCRETE WALL INDICATED WITH DASH-DOT-DOT LINE. REFER TO ARCHITECTURAL PLANS FOR FULL EXTENTS. SEE SPECIFICATIONS FOR INSTALLATION OF RECESSED DEVICES IN PRECAST WALLS.

E. MAXIMUM PULL DISTANCE SHALL BE 600 FEET. PROVIDE ADDITIONAL HANDHOLES AND PULLBOXES AS REQUIRED.

F. WHERE TURNS ARE REQUIRED, USE SWEEPING 4 FOOT RADIUS DEGREE TURNS.

G. ENTIRE DUCT BANK PATHWAYS SHALL BE CONCRETE ENCASED.

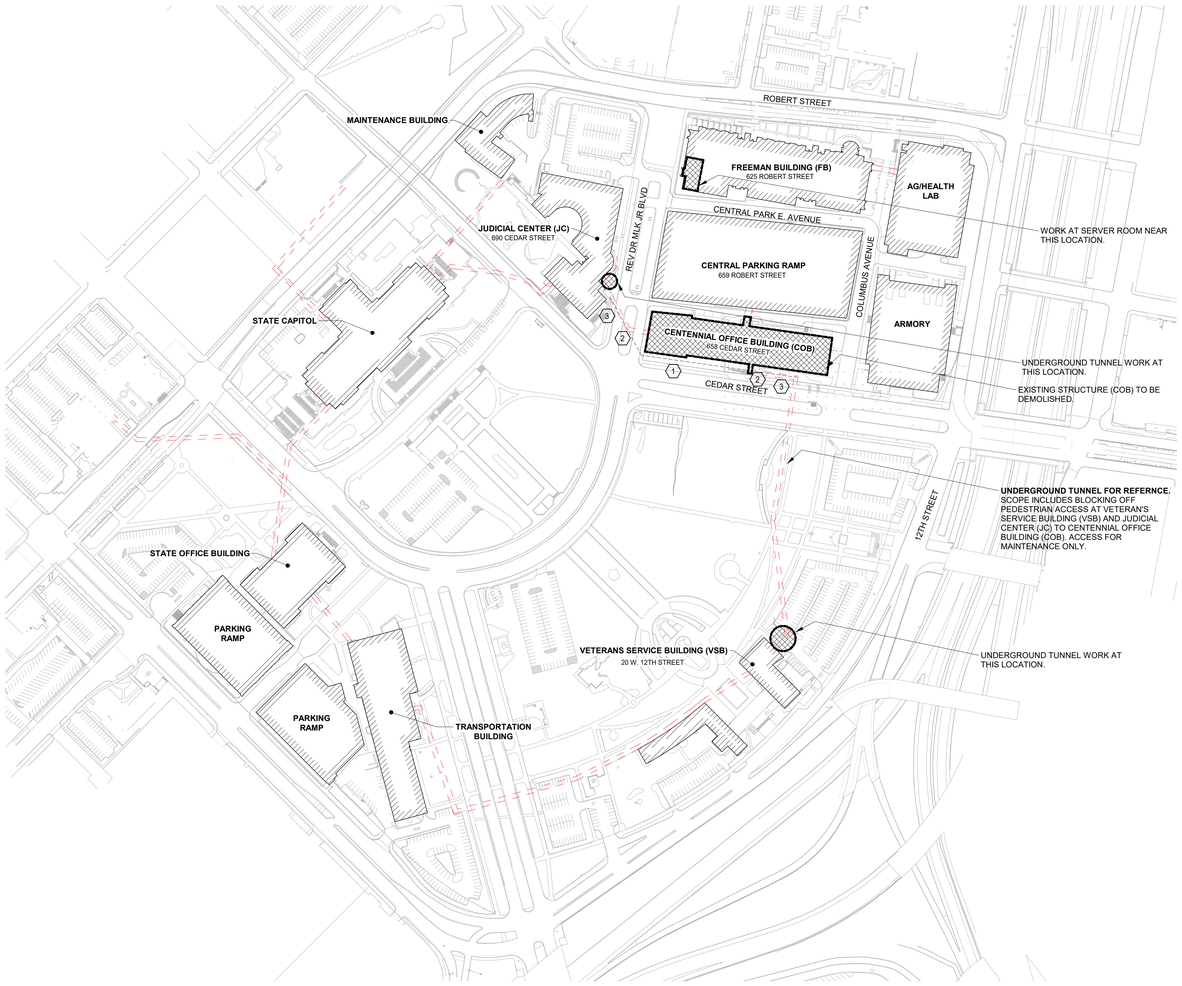
H. CONDUITS SHALL BE 42" BELOW FINAL GRADE.

KEYED SHEET NOTES

1. LOCATION OF (6) 4" CONDUIT DUCTBANK WITH INNERDUCT, CONCRETE ENCASED. EACH PATHWAY (4"C) SHALL BE PROVIDED WITH (3) 1.25" INNERDUCT WITH PULL TAPE.

2. PROVIDE STRUCTURAL PENETRATION AND SEALED SLEEVES TO PROPERLY TRANSITION DUCTBANK TO TUNNEL. INCLUDING CONCRETE ENCASEMENT, EXPANSION JOINING AND DOWELED RE-BAR AS REQUIRED. PROVIDE PLAN SKETCH FOR REVIEW PRIOR TO INSTALLATION.

3. PROVIDE TWO (2) ARMORED OSP 288 STRAND SINGLE-MODE FIBER. FIBER SHALL CONTINUE PAST DUCT BANK PENETRATION APPROXIMATELY 80 FEET ON BOTH ENDS INCLUDING ASSOCIATED PATHWAY SUPPORTS TO ACCOMMODATE APPROPRIATE LOCATION FOR SPLICING/TERMINATIONS. PROVIDE 60' SLACK ON BOTH ENDS. SPLICING/TERMINATIONS BY OWNER.



F3 OVERALL PLAN
1" = 160'-0"

E

CENTENNIAL OFFICE BUILDING DEMOLITION

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woldac.com | 651 227 7773

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License Number: **43936** **BRADLEY R. JOHANNSEN** Date

Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

OVERALL PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
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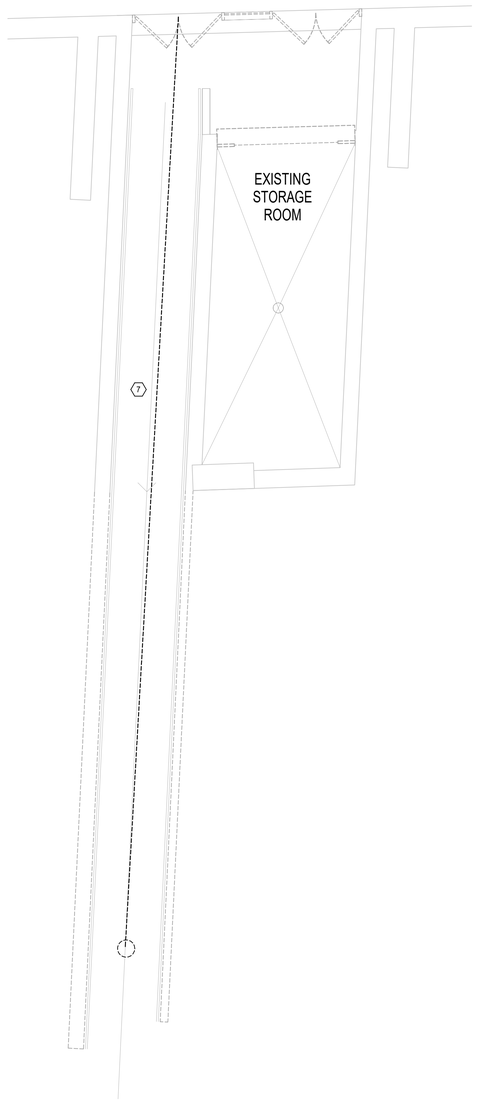
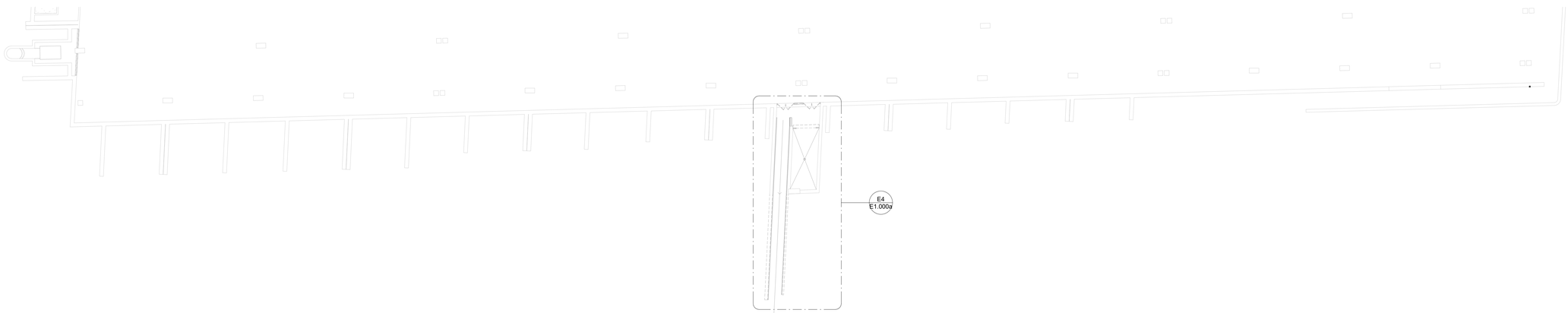


E4 COB - LEVEL SUB-BASEMENT - ENLARGED DEMOLITION PLAN
1/4" = 1'-0"



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F1 COB - LEVEL SUB-BASEMENT - DEMOLITION PLAN
1/16" = 1'-0"

GENERAL SHEET NOTES

A. SOME NOTES MAY NOT APPLY TO THIS SHEET.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

KEYED SHEET NOTES

1. DEMOLISH EXISTING ELECTRICAL CONDUITS AND LIGHTING MOUNTED TO PEDESTRIAN BRIDGE.
2. DEMOLISH ALL COB ELECTRICAL EQUIPMENT. ADJACENT LINK AND PARKING GARAGE ARE FED FROM COB EQUIPMENT. INTERCEPT AND EXTEND GARAGE CIRCUITRY TO NEW EQUIPMENT LOCATED WITH LINK. REFER TO ELECTRICAL RISERS AND GARAGE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
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4. DEMOLISH UNUSED PANEL LOCATED WITHIN LINK.
5. EXISTING LINK DEVICES TO REMAIN. INTERCEPT AND REFEED FROM NEW LINK PANEL AS REQUIRED.
6. DEMOLISH EXISTING LINK LIGHTING AS INDICATED.
7. RE-LOCATE AND EXTEND EXISTING CONDUITS ON EACH LEVEL FEEDING COMMUNICATIONS DEVICES FOR PARKING LOT TO NEW BASEMENT LEVEL TR. PROVIDE NEW CABLING.
8. EXISTING COMMUNICATION RACK. RELOCATE ALPHACOM XE EQUIPMENT AND ASSOCIATED CONNECTIVITY TO NEW BASEMENT LEVEL TR TO ACCOMMODATE PARKING RAMP COMMUNICATIONS.
9. EXISTING ACCESS CONTROL. RELOCATE EQUIPMENT AND ASSOCIATED CONNECTIVITY TO NEW BASEMENT LEVEL TR TO ACCOMMODATE PARKING RAMP DEVICES. RE-USE BUILDING HEAD-END COMPONENTS AS NECESSARY TO RE-ESTABLISH WORKING SYSTEM.

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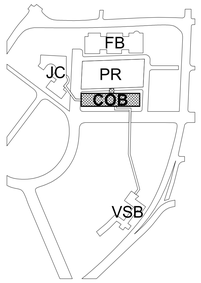

KEY PLAN

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License Number: **BRADLEY R. JOHANNSEN** **43936** Date

Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

COB - LEVEL SUB-BASEMENT - ELECTRICAL DEMOLITION PLAN

Scale: **As Indicated**

DESIGN DEVELOPMENT ESTIMATE SET
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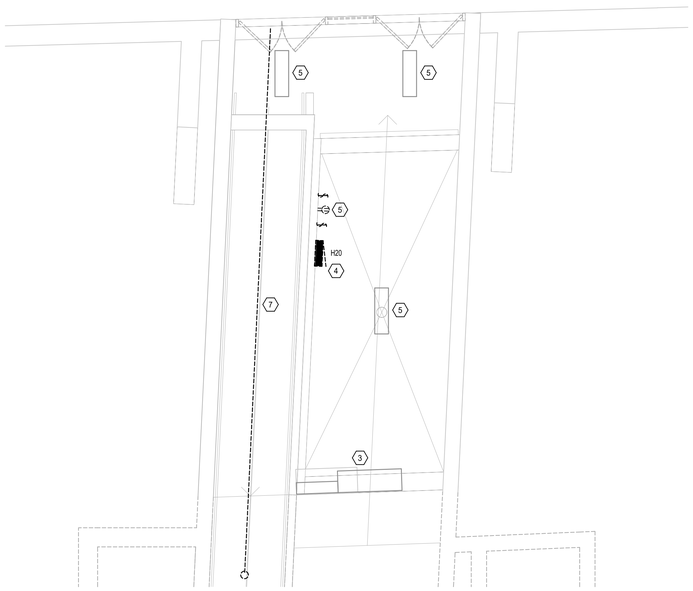
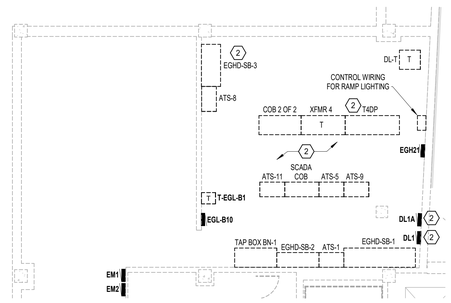


C1 COB - LEVEL BASEMENT - ENLARGED ELECTRICAL DEMOLITION PLAN (LINK)
1/4" = 1'-0"



C4 COB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN (COB)
1/8" = 1'-0"

KEYED SHEET NOTES

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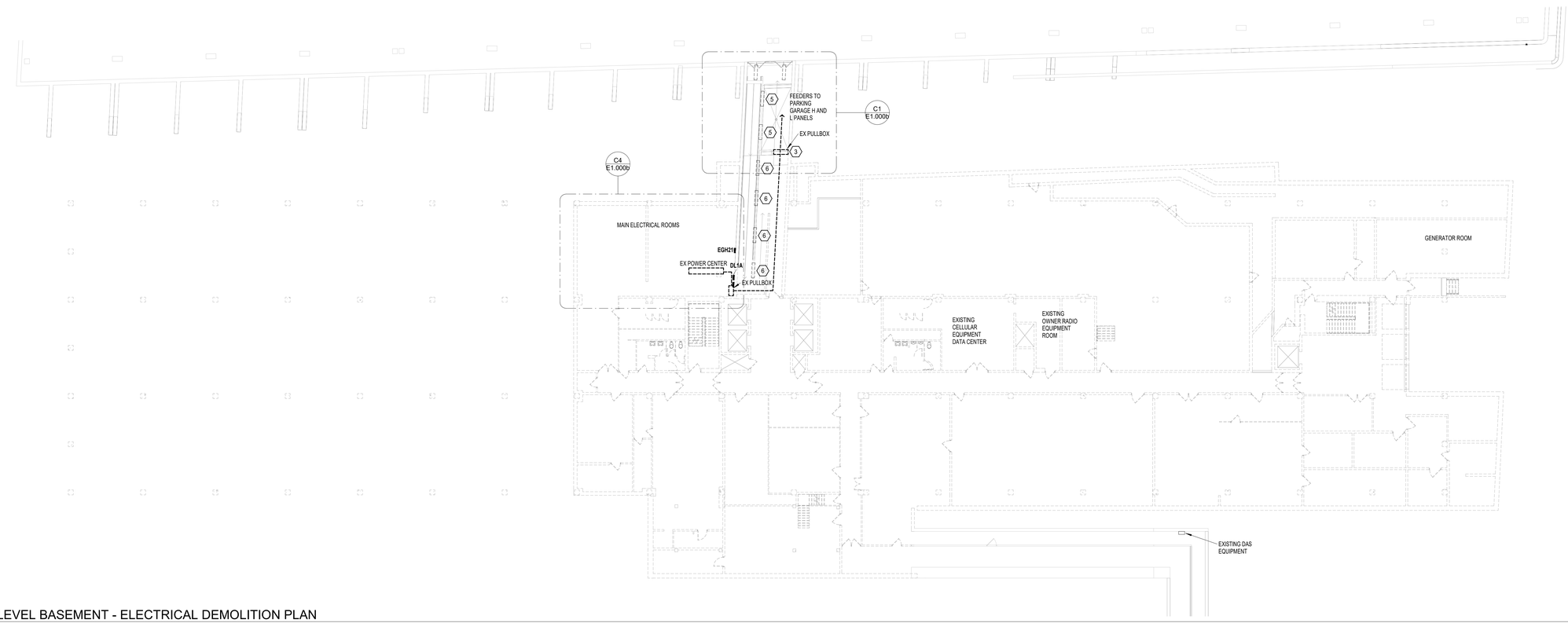

F1 COB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

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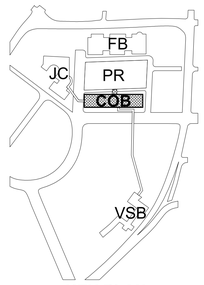

KEY PLAN

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License Number: **43936** **BRADLEY R. JOHANNSEN** Date

Revisions

Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

COB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN

Scale: **As indicated**

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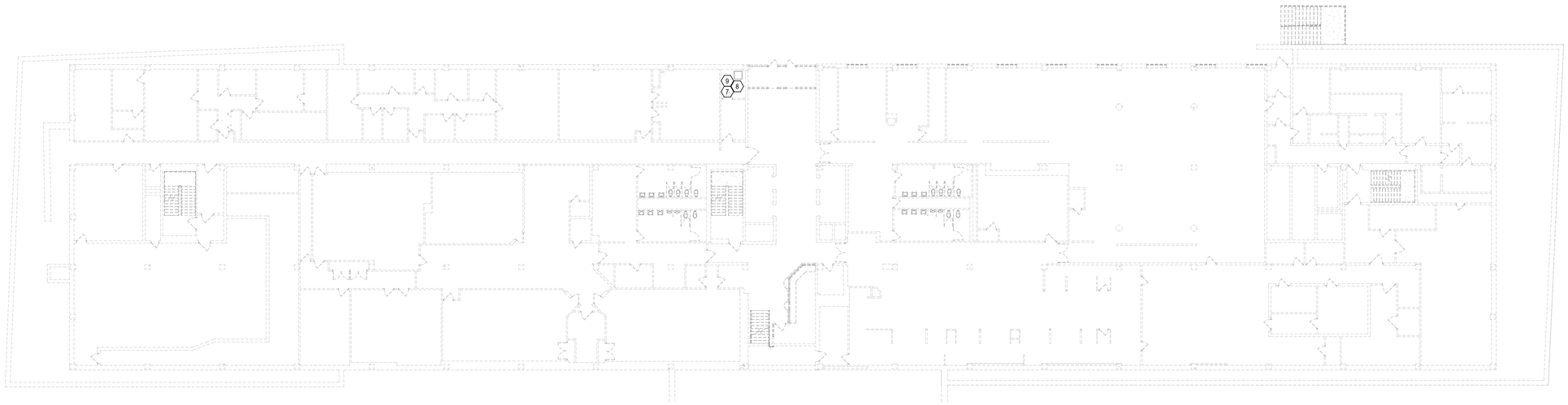

C1 COB - LEVEL GROUND - ELECTRICAL DEMOLITION PLAN
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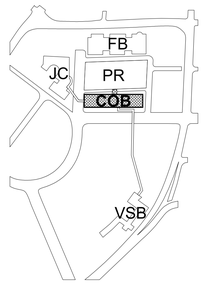

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North

COB - LEVEL GROUND - ELECTRICAL DEMOLITION PLAN

Scale: **As Indicated**

E1.001a

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Central: Wold Architects and Engineers (woldac.com)
Client: 252071 - 658 Cedar St
10/20/2023 10:34:01 AM

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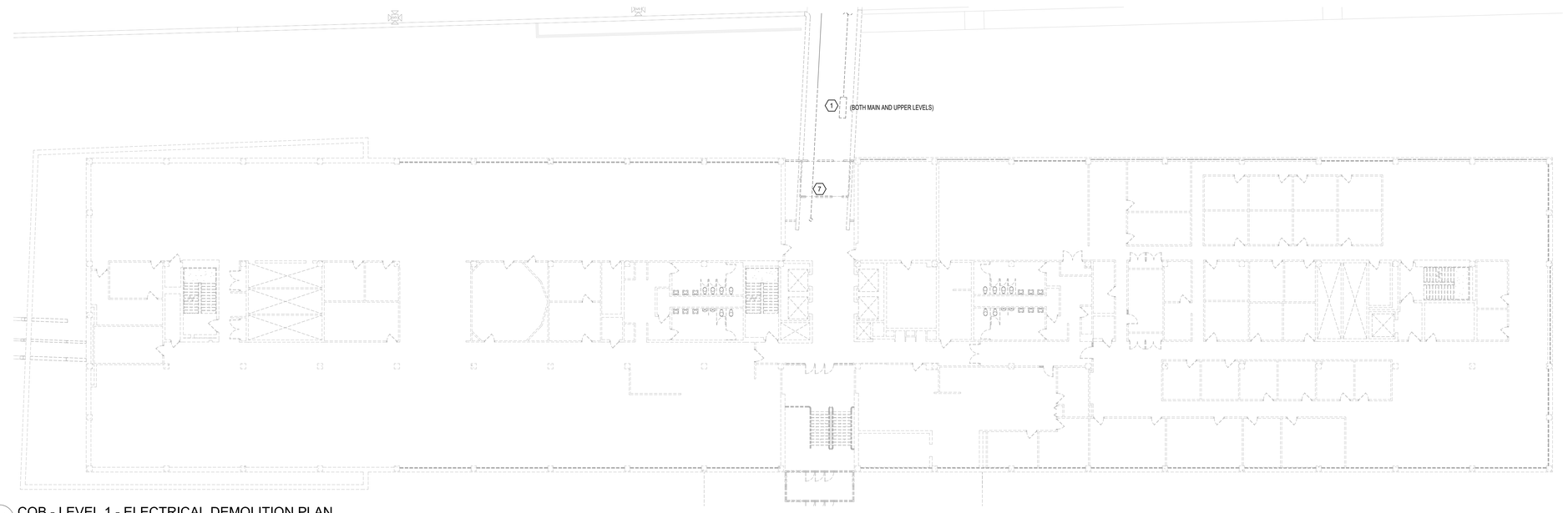

C1 COB - LEVEL 1 - ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

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D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

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KEYED SHEET NOTES

1. DEMOLISH EXISTING ELECTRICAL CONDUITS AND LIGHTING MOUNTED TO PEDESTRIAN BRIDGE.
2. DEMOLISH ALL COB ELECTRICAL EQUIPMENT. ADJACENT LINK AND PARKING GARAGE ARE FED FROM COB EQUIPMENT. INTERCEPT AND EXTEND GARAGE CIRCUITRY TO NEW EQUIPMENT LOCATED WITH LINK. REFER TO ELECTRICAL RISERS AND GARAGE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
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4. DEMOLISH UNUSED PANEL LOCATED WITHIN LINK.
5. EXISTING LINK DEVICES TO REMAIN. INTERCEPT AND REFEED FROM NEW LINK PANEL AS REQUIRED.
6. DEMOLISH EXISTING LINK LIGHTING AS INDICATED.
7. RE-LOCATE AND EXTEND EXISTING CONDUITS ON EACH LEVEL FEEDING COMMUNICATIONS DEVICES FOR PARKING LOT TO NEW BASEMENT LEVEL TR. PROVIDE NEW CABLING.
8. EXISTING COMMUNICATION RACK. RELOCATE ALPHACOM XE EQUIPMENT AND ASSOCIATED CONNECTIVITY TO NEW BASEMENT LEVEL TR TO ACCOMMODATE PARKING RAMP COMMUNICATIONS.
9. EXISTING ACCESS CONTROL. RELOCATE EQUIPMENT AND ASSOCIATED CONNECTIVITY TO NEW BASEMENT LEVEL TR TO ACCOMMODATE PARKING RAMP DEVICES. RE-USE BUILDING HEAD-END COMPONENTS AS NECESSARY TO RE-ESTABLISH WORKING SYSTEM.

CENTENNIAL OFFICE BUILDING DEMOLITION

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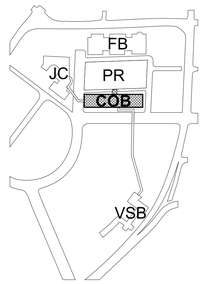

KEY PLAN

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License Number: **43936** **BRADLEY R. JOHANNSEN** Date

Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

COB - LEVEL 1 - ELECTRICAL DEMOLITION PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
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E1.001b

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MN

E

F1 PARKING RAMP - LEVEL 0 - ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

KEYED SHEET NOTES

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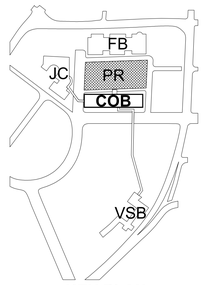

KEY PLAN

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License Number: **43936** **BRADLEY R. JOHANNSEN** Date

Revisions

Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

PARKING RAMP - LEVEL 0 - ELECTRICAL DEMOLITION PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
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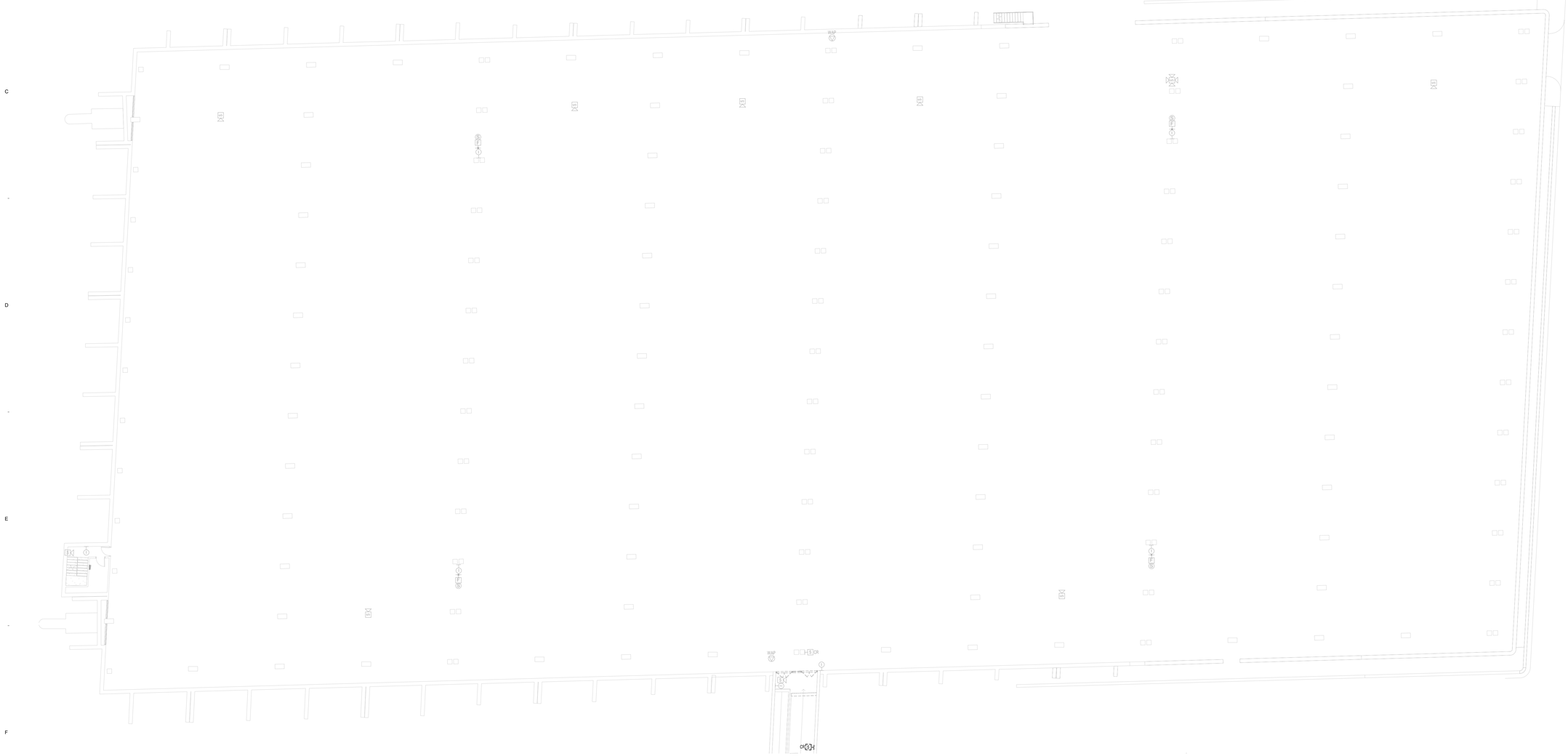

F1 PARKING RAMP - LEVEL 1 - ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

KEYED SHEET NOTES

1. DEMOLISH EXISTING ELECTRICAL CONDUITS AND LIGHTING MOUNTED TO PEDESTRIAN BRIDGE.
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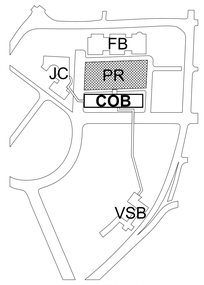

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License Number: **43936** **BRADLEY R. JOHANNSEN** Date

Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

PARKING RAMP - LEVEL 1 - ELECTRICAL DEMOLITION PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

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MN

E

F1 PARKING RAMP - LEVEL 2 - ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

KEYED SHEET NOTES

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I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

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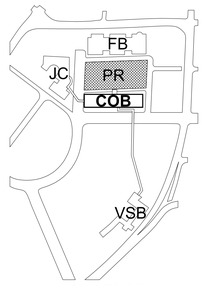

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Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

PARKING RAMP - LEVEL 2 - ELECTRICAL DEMOLITION PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
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E1.102

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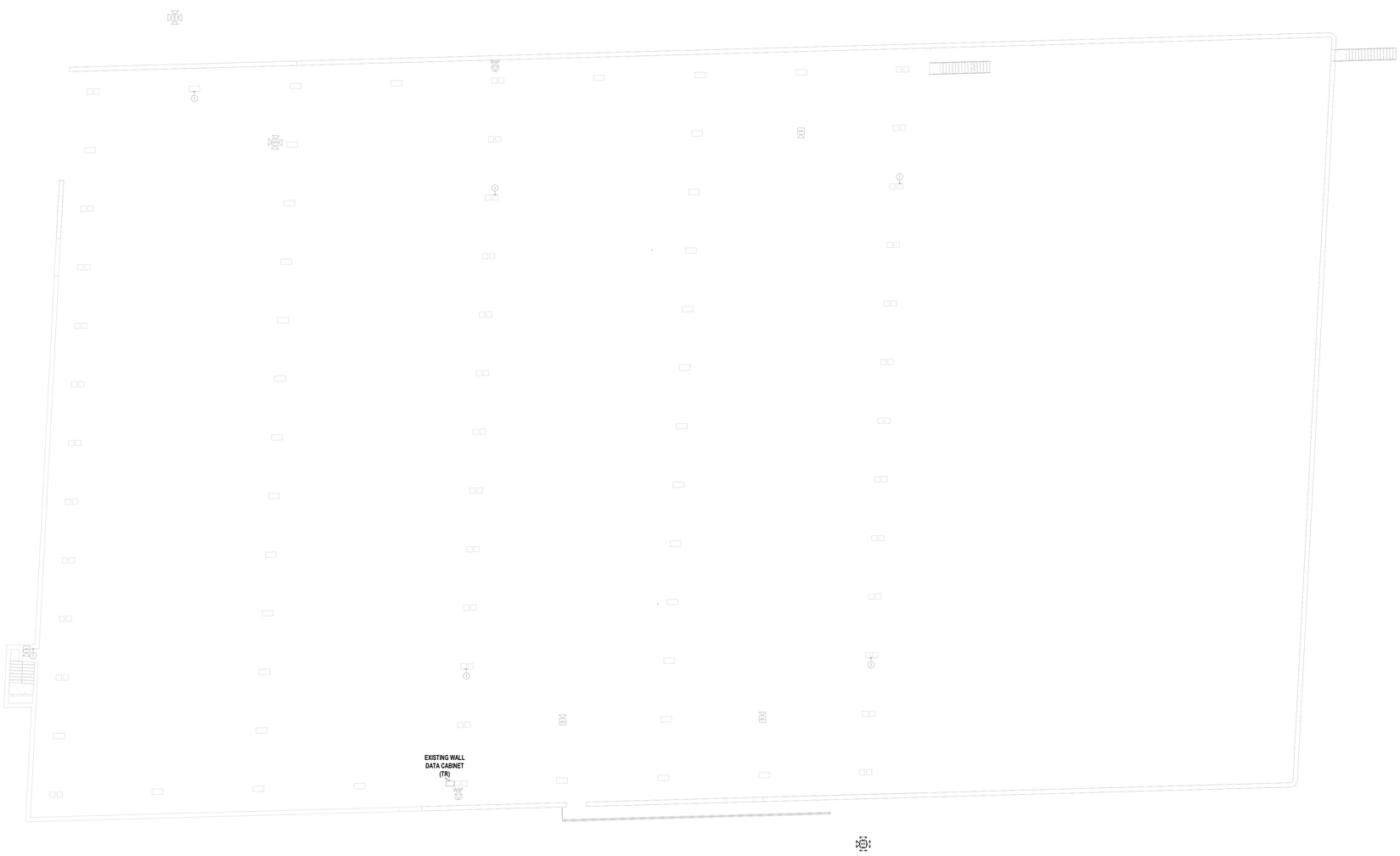

1 PARKING RAMP - LEVEL 3 - ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

KEYED SHEET NOTES

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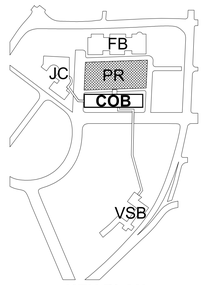

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North

PARKING RAMP - LEVEL 3 - ELECTRICAL DEMOLITION PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

E1.103

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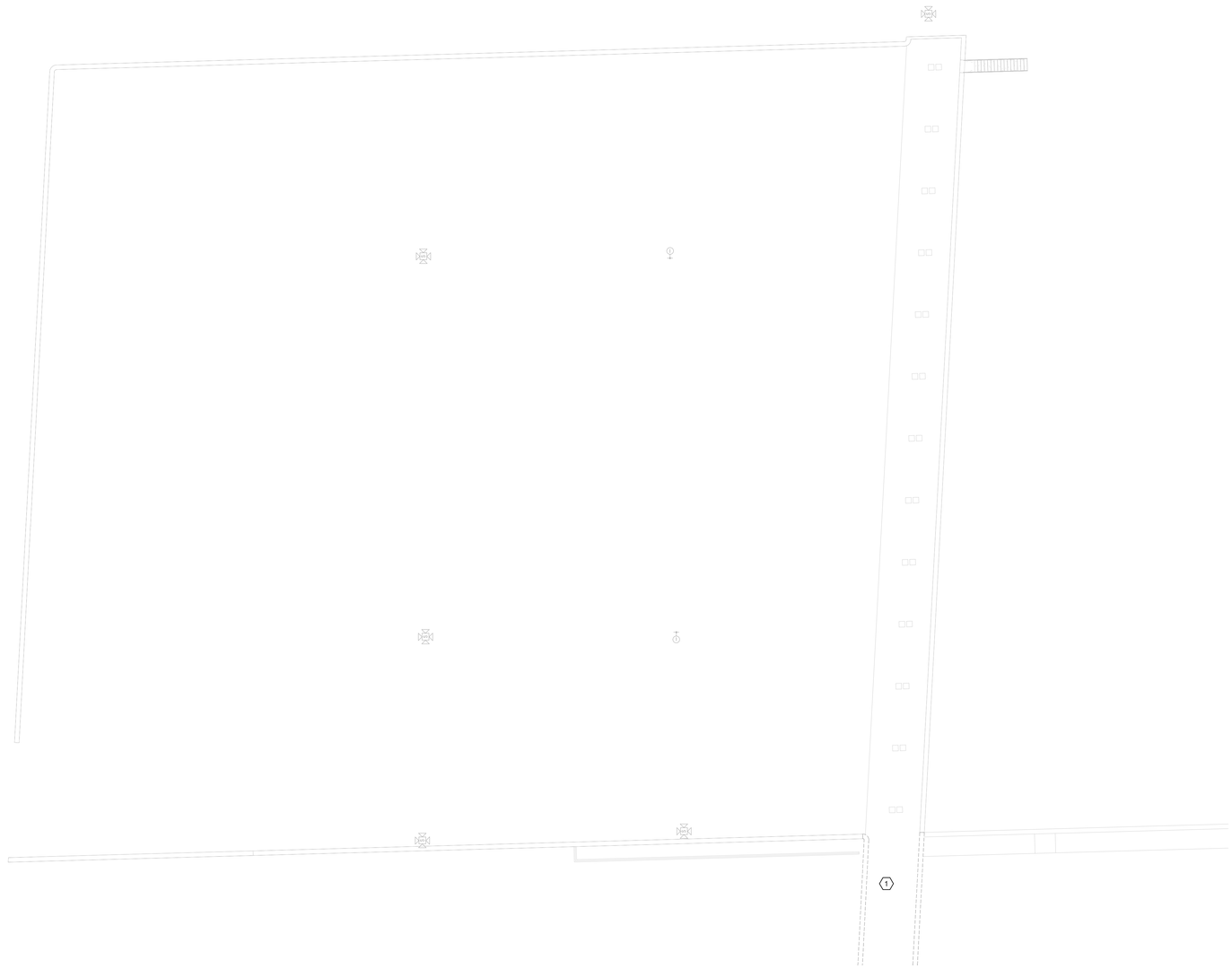

1 PARKING RAMP - LEVEL 4 - ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

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D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

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I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

KEYED SHEET NOTES

1. DEMOLISH EXISTING ELECTRICAL CONDUITS AND LIGHTING MOUNTED TO PEDESTRIAN BRIDGE.
2. DEMOLISH ALL COB ELECTRICAL EQUIPMENT. ADJACENT LINK AND PARKING GARAGE ARE FED FROM COB EQUIPMENT. INTERCEPT AND EXTEND GARAGE CIRCUITRY TO NEW EQUIPMENT LOCATED WITH LINK. REFER TO ELECTRICAL RISERS AND GARAGE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
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CENTENNIAL OFFICE BUILDING DEMOLITION

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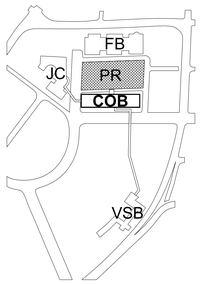

KEY PLAN

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License Number: **BRADLEY R. JOHANNSEN** **43936** Date

Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

PARKING RAMP - LEVEL 4 - ELECTRICAL DEMOLITION PLAN

Scale: **As Indicated**

E1.104

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

MN

E

Autodesk Docs://252071 - Centennial Office Building Demolition/Centennial Office Building DD.rvt
Central: Wolden Connection
Central model path: Autodesk Docs://Centennial Office Building DD/Centennial Office Building DD.rvt
10/10/2025 10:39:44 AM

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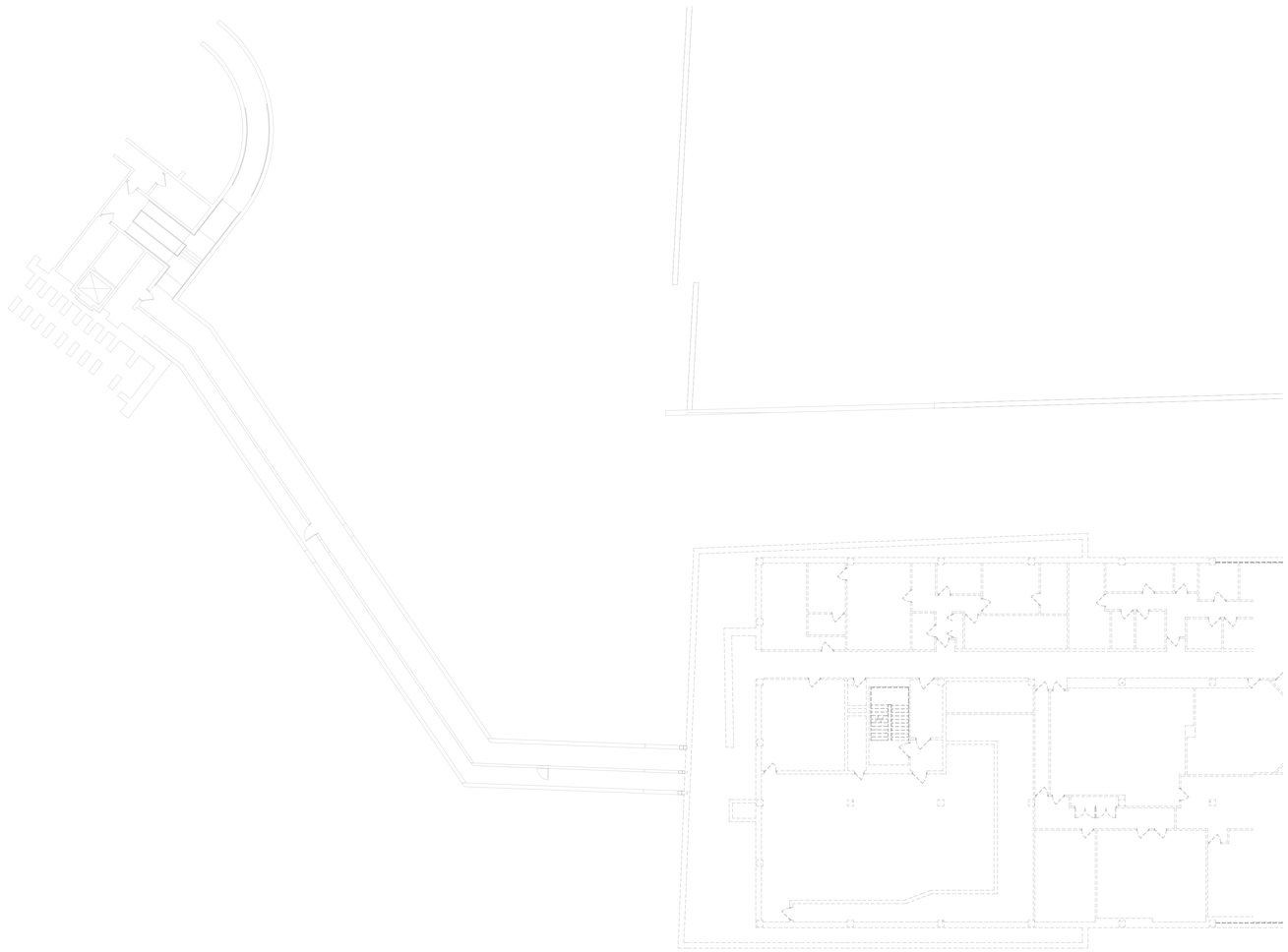
MN



D3 JC - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

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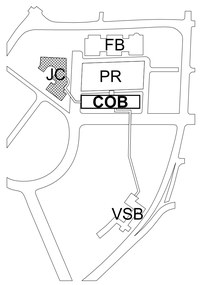

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License Number: **43936** **BRADLEY R. JOHANNSEN** Date

Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

JC - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN

Scale: **As Indicated**

E1.200

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

E

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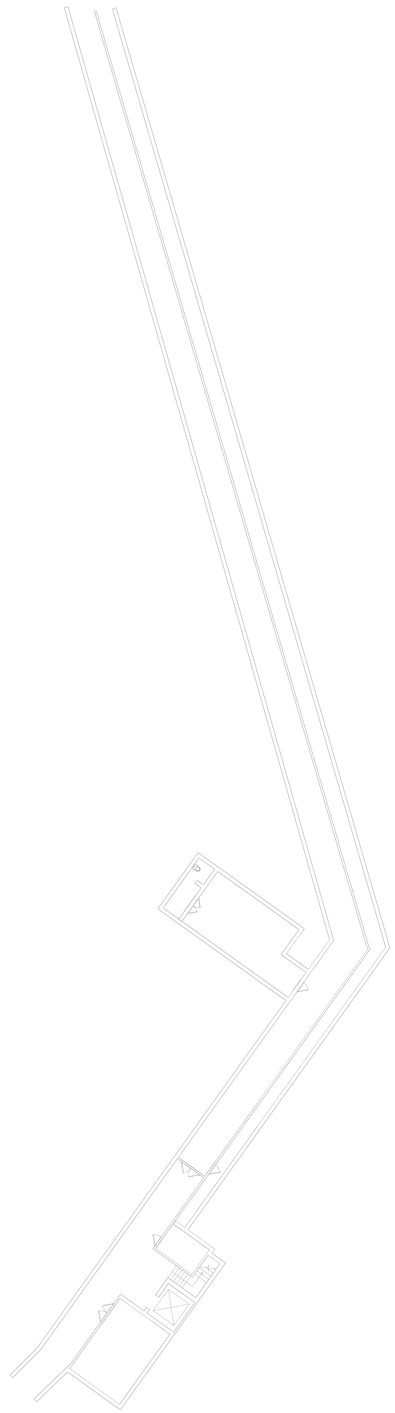

F4 VSB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
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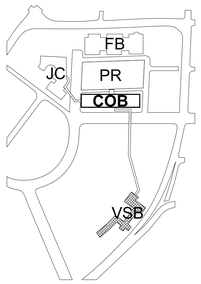

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License Number: **43936** **BRADLEY R. JOHANNSEN** Date

Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

VSB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN

Scale: **As indicated**

E1.300

Autodesk Docs://252071 - Centennial Office Building Demolition/Centennial Office Building CAD.rvt
Central: https://wold-cloud.com/
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MN

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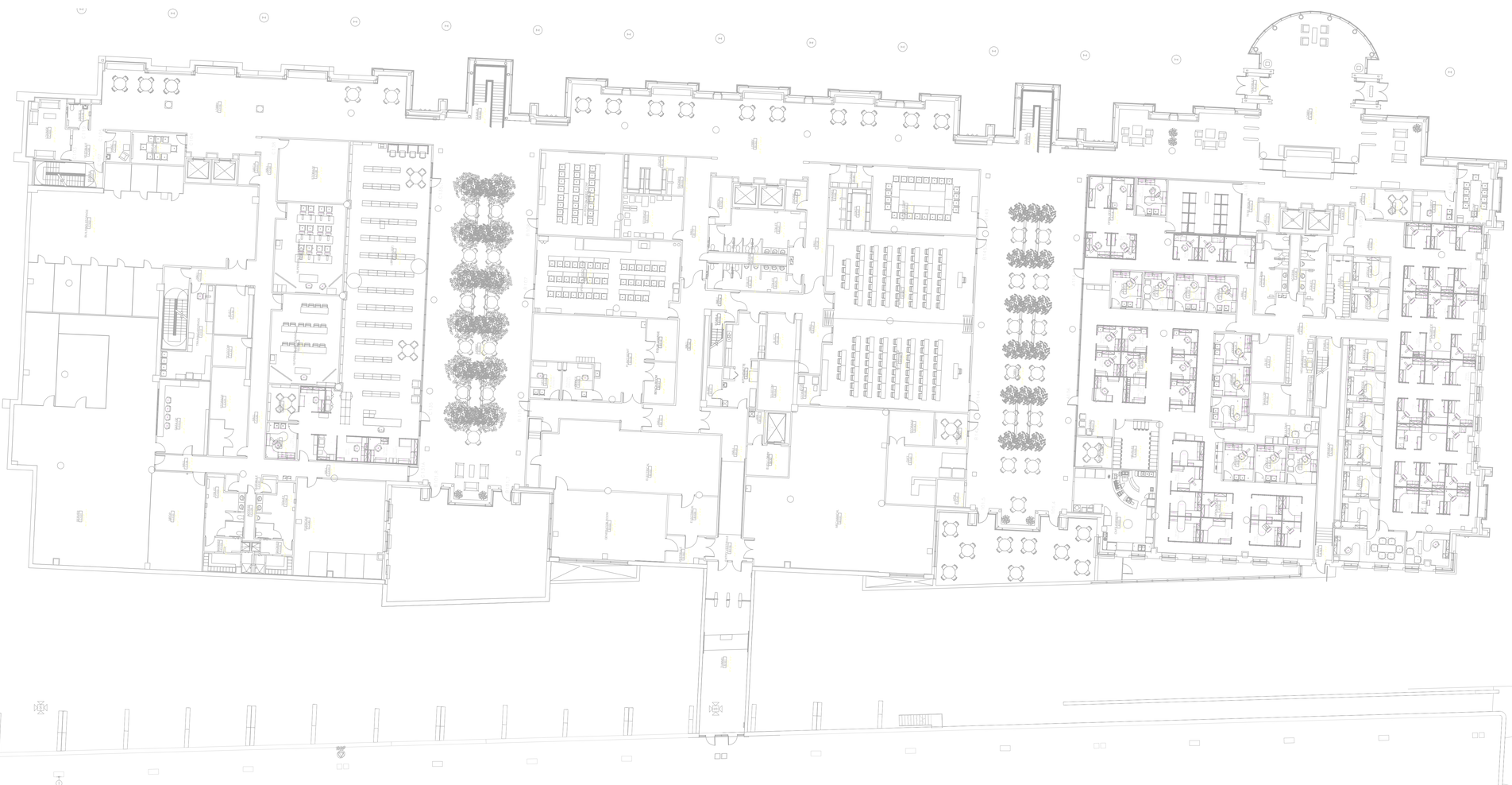

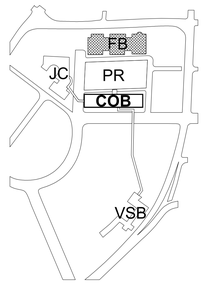

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Revisions		
Description	Date	Num

Comm: 252071
Date:
Drawn: N.DEFRANCESCO
Check: B.JOHANNSEN
North

F1 FB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

FB - LEVEL BASEMENT - ELECTRICAL DEMOLITION PLAN

Scale: As Indicated

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

E1.400

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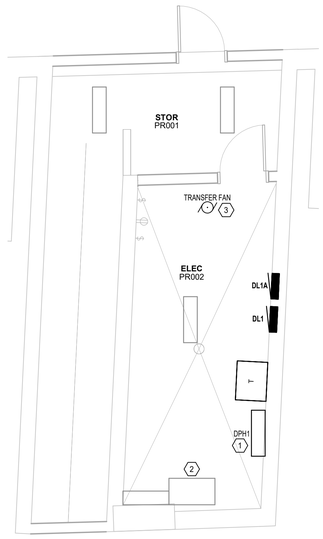
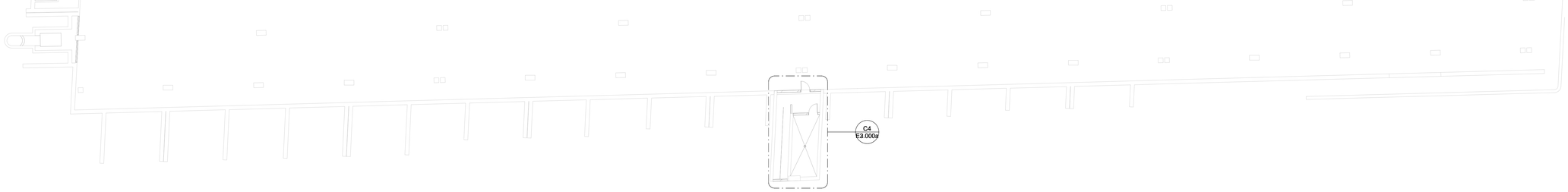


C4 COB - LEVEL SUB-BASEMENT - ENLARGED ELECTRICAL PLAN (LINK)
1/4" = 1'-0"



D1 COB - LEVEL SUB-BASEMENT - ELECTRICAL PLAN
1/16" = 1'-0"

E

GENERAL SHEET NOTES

A. SOME NOTES MAY NOT APPLY TO THIS SHEETS.

B. ALL BOXES, CONDUIT AND WIRING TO BE CONCEALED. NO EXPOSED BOXES, CONDUIT AND WIRING SHALL BE ALLOWED UNLESS NOTED OTHERWISE.

C. COORDINATE DEVICE LOCATIONS WITH OTHER TRADES INCLUDING HVAC EQUIPMENT, DUCTWORK, SPRINKLER PIPING AND BUILDING STRUCTURAL MEMBERS.

D. REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL POWER, RACEWAY, AND ROUGH-IN REQUIREMENTS. CONTRACTOR SHALL COORDINATE POWER OUTLET LOCATIONS WITH TECHNOLOGY PLANS AND DETAILS AS REQUIRED.

E. NO MULTI-BRANCH CIRCUIT ALLOWED. PROVIDE A SEPARATE NEUTRAL WITH EACH CIRCUIT.

F. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

G. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.

H. GFCI RECEPTACLES SHALL BE WIRED TO PROTECT ONLY THE DEVICES IN THAT OUTLET BOX. DOWNSTREAM DEVICES SHALL NOT BE PROTECTED BY GFCI.

I. CIRCUIT NUMBERS SHOWN ARE FOR SCHEMATIC PURPOSES AND ARE FOR DISTINGUISHING CIRCUITS. RECORD AS-BUILT CIRCUITING IN A TYPED AND DATED PANELBOARD SCHEDULE.

J. PROVIDE SEPARATED CONDUITS FOR ALL EMERGENCY CIRCUITS. DO NOT COMBINE WITH NORMAL BUILDING WIRING.

K. SEE BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE ON SHEET E0.000

L. REFER TO MECHANICAL SHEETS FOR EXACT MOTOR LOCATIONS.

KEYED SHEET NOTES

1. FEED NEW LINK DISTRIBUTION PANEL FROM FREEMAN BUILDING.
2. INTERCEPT EXISTING PARKING GARAGE EQUIPMENT FEEDERS AT PULLBOX AND EXTEND TO NEW LINK DISTRIBUTION PANEL AS REQUIRED.
3. PROVIDE CONNECTION TO NEW MECHANICAL EQUIPMENT AS REQUIRED.
4. PROVIDE 300KVA TRANSFORMER IN FREEMAN BUILDING TO SERVE NEW DAS EQUIPMENT. FEED FROM 400A BREAKER IN FREEMAN GENERATOR PANEL.
5. PROVIDE 24 STRAND SINGLE-MODE ARMORED PLENUM INDOOR/OUTDOOR FIBER FROM DATA CENTER TO NEW TR ON CENTENNIAL SIDE OF RAMP. PROVIDE 12 STRAND SINGLE-MODE ARMORED PLENUM INDOOR/OUTDOOR FIBER FROM DATA CENTER TO EACH PARKING RAMP COLUMN MOUNTED TELECOMMUNICATIONS CABINET (TWO TOTAL). TERMINATIONS AND ASSOCIATED HARDWARE BY DIV 27.

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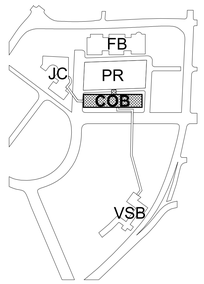

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North

COB - LEVEL SUB-BASEMENT - ELECTRICAL PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
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E2.000a

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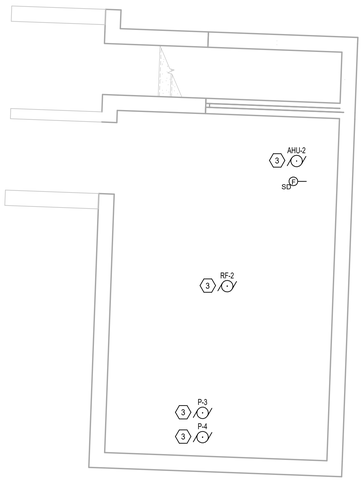
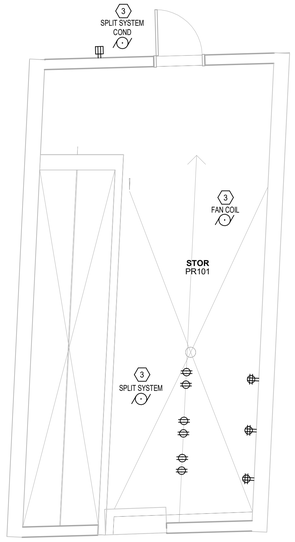
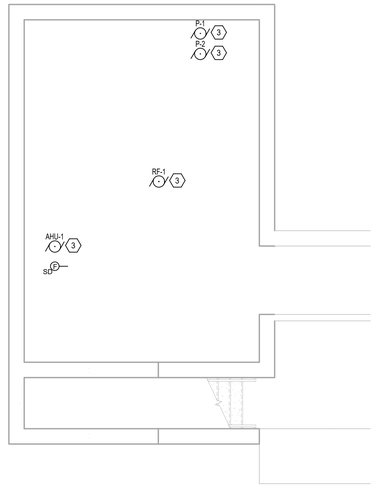
MN



C1 JC BUILDING BASEMENT
1/4" = 1'-0"



C4 COB - LEVEL BASEMENT - ENLARGED ELECTRICAL PLAN
1/4" = 1'-0"



C6 COB BASEMENT - AREA 'K'
1/4" = 1'-0"

GENERAL SHEET NOTES

A. SOME NOTES MAY NOT APPLY TO THIS SHEETS.

B. ALL BOXES, CONDUIT AND WIRING TO BE CONCEALED. NO EXPOSED BOXES, CONDUIT AND WIRING SHALL BE ALLOWED UNLESS NOTED OTHERWISE.

C. COORDINATE DEVICE LOCATIONS WITH OTHER TRADES INCLUDING HVAC EQUIPMENT, DUCTWORK, SPRINKLER PIPING AND BUILDING STRUCTURAL MEMBERS.

D. REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL POWER, RACEWAY, AND ROUGH-IN REQUIREMENTS. CONTRACTOR SHALL COORDINATE POWER OUTLET LOCATIONS WITH TECHNOLOGY PLANS AND DETAILS AS REQUIRED.

E. NO MULTI-BRANCH CIRCUIT ALLOWED. PROVIDE A SEPARATE NEUTRAL WITH EACH CIRCUIT.

F. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

G. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.

H. GFCI RECEPTACLES SHALL BE WIRED TO PROTECT ONLY THE DEVICES IN THAT OUTLET BOX. DOWNSTREAM DEVICES SHALL NOT BE PROTECTED BY GFCI.

I. CIRCUIT NUMBERS SHOWN ARE FOR SCHEMATIC PURPOSES AND ARE FOR DISTINGUISHING CIRCUITS. RECORD AS-BUILT CIRCUITING IN A TYPED AND DATED PANELBOARD SCHEDULE.

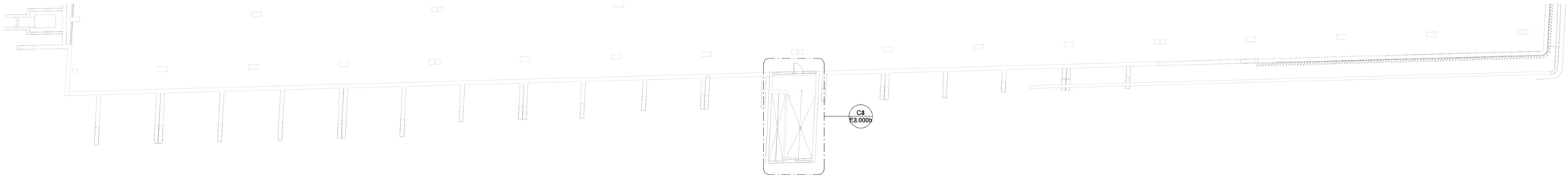
J. PROVIDE SEPARATED CONDUITS FOR ALL EMERGENCY CIRCUITS. DO NOT COMBINE WITH NORMAL BUILDING WIRING.

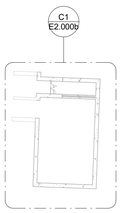
K. SEE BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE ON SHEET E0.000

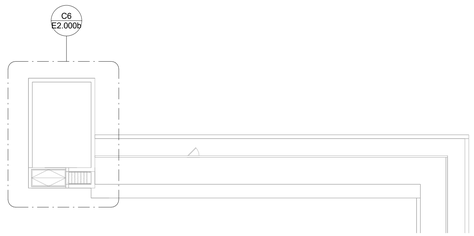
L. REFER TO MECHANICAL SHEETS FOR EXACT MOTOR LOCATIONS.

KEYED SHEET NOTES

1. FEED NEW LINK DISTRIBUTION PANEL FROM FREEMAN BUILDING.
2. INTERCEPT EXISTING PARKING GARAGE EQUIPMENT FEEDERS AT PULLBOX AND EXTEND TO NEW LINK DISTRIBUTION PANEL AS REQUIRED.
3. PROVIDE CONNECTION TO NEW MECHANICAL EQUIPMENT AS REQUIRED.
4. PROVIDE 300KVA TRANSFORMER IN FREEMAN BUILDING TO SERVE NEW DAS EQUIPMENT. FEED FROM 400A BREAKER IN FREEMAN GENERATOR PANEL.
5. PROVIDE 24 STRAND SINGLE-MODE ARMORED PLENUM INDOOR/OUTDOOR FIBER FROM DATA CENTER TO NEW TR ON CENTENNIAL SIDE OF RAMP. PROVIDE 12 STRAND SINGLE-MODE ARMORED PLENUM INDOOR/OUTDOOR FIBER FROM DATA CENTER TO EACH PARKING RAMP COLUMN MOUNTED TELECOMMUNICATIONS CABINET (TWO TOTAL). TERMINATIONS AND ASSOCIATED HARDWARE BY DIV 27.







E

F1 COB - LEVEL BASEMENT - ELECTRICAL PLAN
1/16" = 1'-0"

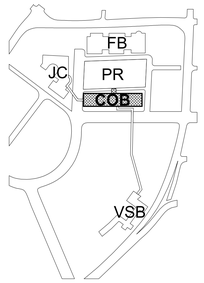
DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

STATE OF MINNESOTA
50 SHERBURNE AVE, SUITE 309
ST PAUL, MN 55155

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773



KEY PLAN

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License Number: **43936** **BRADLEY R. JOHANNSEN** Date

Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

COB - LEVEL BASEMENT - ELECTRICAL PLAN

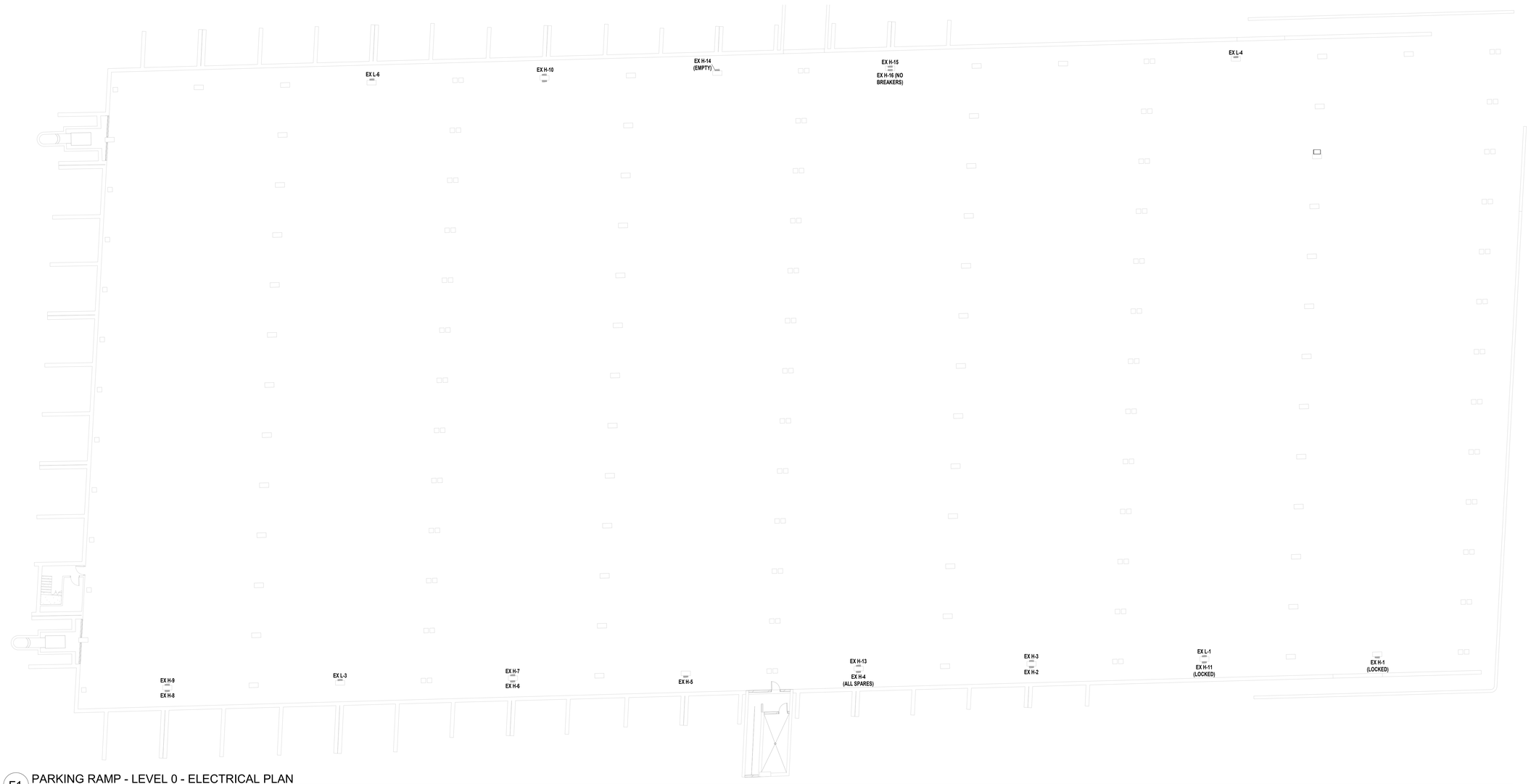
Scale: **As indicated**

E2.000b

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

MN

E



F1 PARKING RAMP - LEVEL 0 - ELECTRICAL PLAN
1/16" = 1'-0"

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

GENERAL SHEET NOTES

A. SOME NOTES MAY NOT APPLY TO THIS SHEETS.

B. ALL BOXES, CONDUIT AND WIRING TO BE CONCEALED. NO EXPOSED BOXES, CONDUIT AND WIRING SHALL BE ALLOWED UNLESS NOTED OTHERWISE.

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K. SEE BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE ON SHEET E0.000

L. REFER TO MECHANICAL SHEETS FOR EXACT MOTOR LOCATIONS.

CENTENNIAL OFFICE BUILDING DEMOLITION

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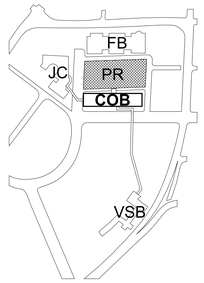

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Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

PARKING RAMP - LEVEL 0 - ELECTRICAL PLAN

Scale: **As indicated**

E2.100

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MN

E

F1 PARKING RAMP - LEVEL 1 - ELECTRICAL PLAN
1/16" = 1'-0"

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K. SEE BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE ON SHEET E0.000

L. REFER TO MECHANICAL SHEETS FOR EXACT MOTOR LOCATIONS.

CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

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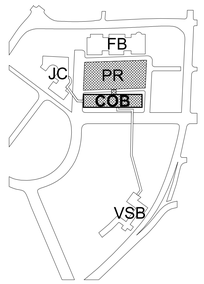
woldac.com | 651 227 7773



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Comm: **252071**
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Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

PARKING RAMP - LEVEL 1 - ELECTRICAL PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

E2.101

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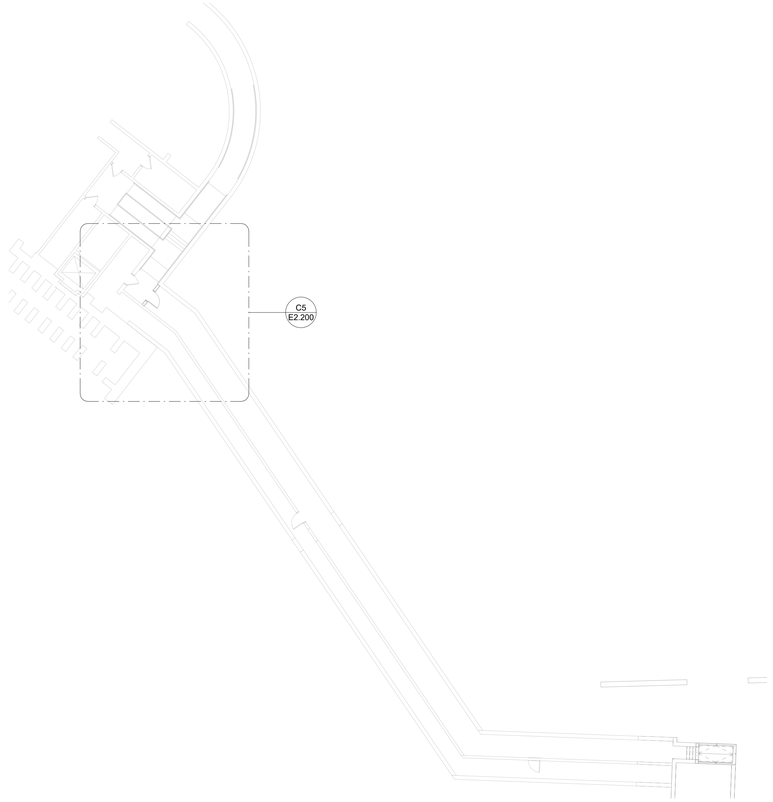
MN

C5 JC - LEVEL BASEMENT - ENLARGED ELECTRICAL PLAN
1/4" = 1'-0"



F5 JC - LEVEL BASEMENT - ELECTRICAL PLAN
1/16" = 1'-0"

E

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CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
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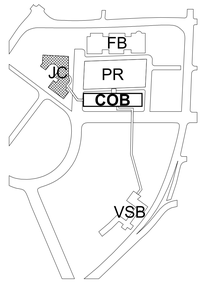

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Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

JC - LEVEL BASEMENT - ELECTRICAL PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

E2.200

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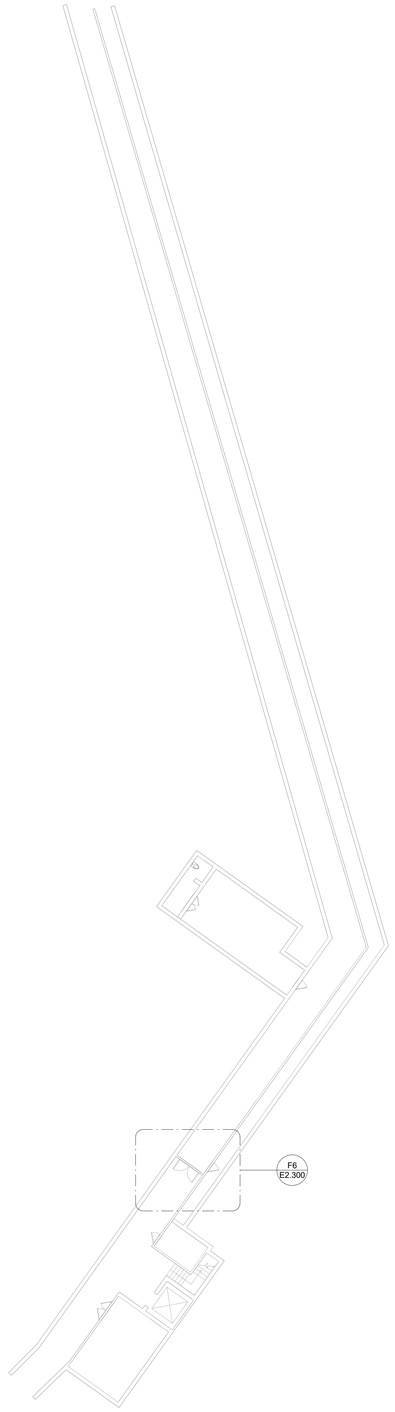
MN



F2 VSB - LEVEL BASEMENT - ELECTRICAL PLAN
1/16" = 1'-0"

F6 VSB - LEVEL BASEMENT - ENLARGED ELECTRICAL PLAN
1/4" = 1'-0"

E

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L. REFER TO MECHANICAL SHEETS FOR EXACT MOTOR LOCATIONS.

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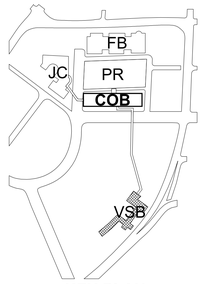

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Revisions

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Comm: **252071**
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Check: **B.JOHANNSEN**
North

VSB - LEVEL BASEMENT - ELECTRICAL PLAN

Scale: **As indicated**

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

E2.300

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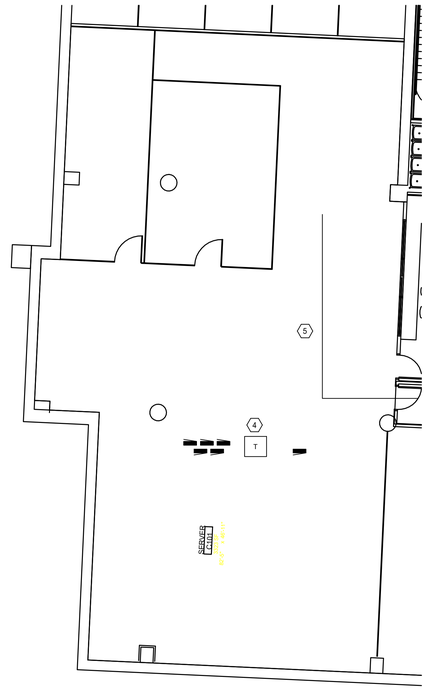
MN



C3 FB - LEVEL BASEMENT - ENLARGED ELECTRICAL PLAN
1/8" = 1'-0"

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CENTENNIAL OFFICE BUILDING DEMOLITION

658 CEDAR ST.
ST PAUL, MN 55155

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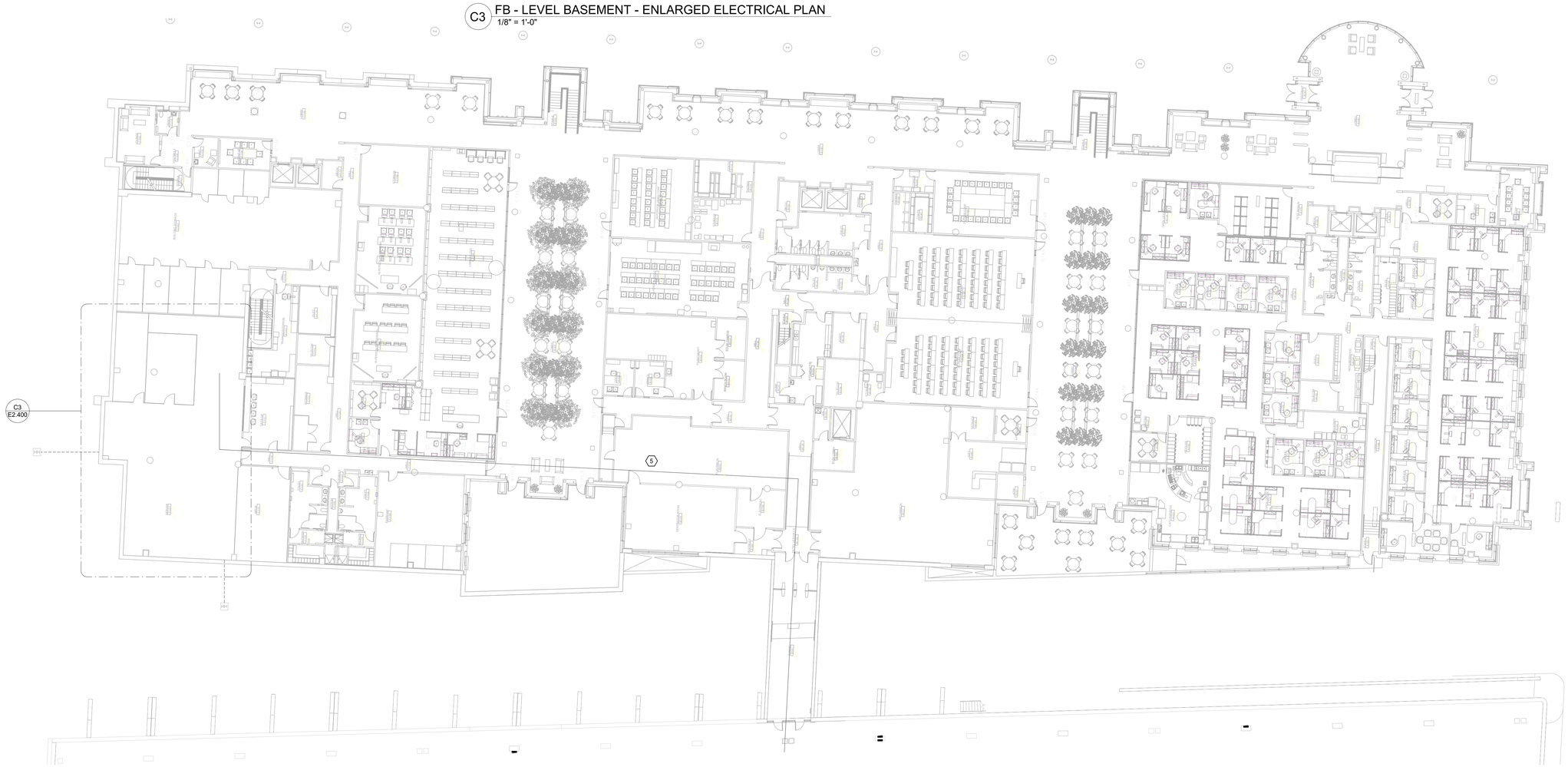
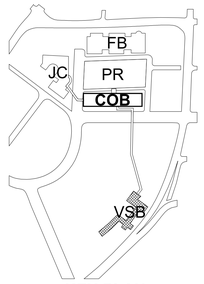


E

F1 FB - LEVEL BASEMENT - ELECTRICAL PLAN
1/16" = 1'-0"



KEY PLAN

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License Number: **43936** **BRADLEY R. JOHANNSEN** Date

Revisions		
Description	Date	Num

Comm: **252071**
Date:
Drawn: **N.DEFRANCESCO**
Check: **B.JOHANNSEN**
North

FB - LEVEL BASEMENT - ELECTRICAL PLAN

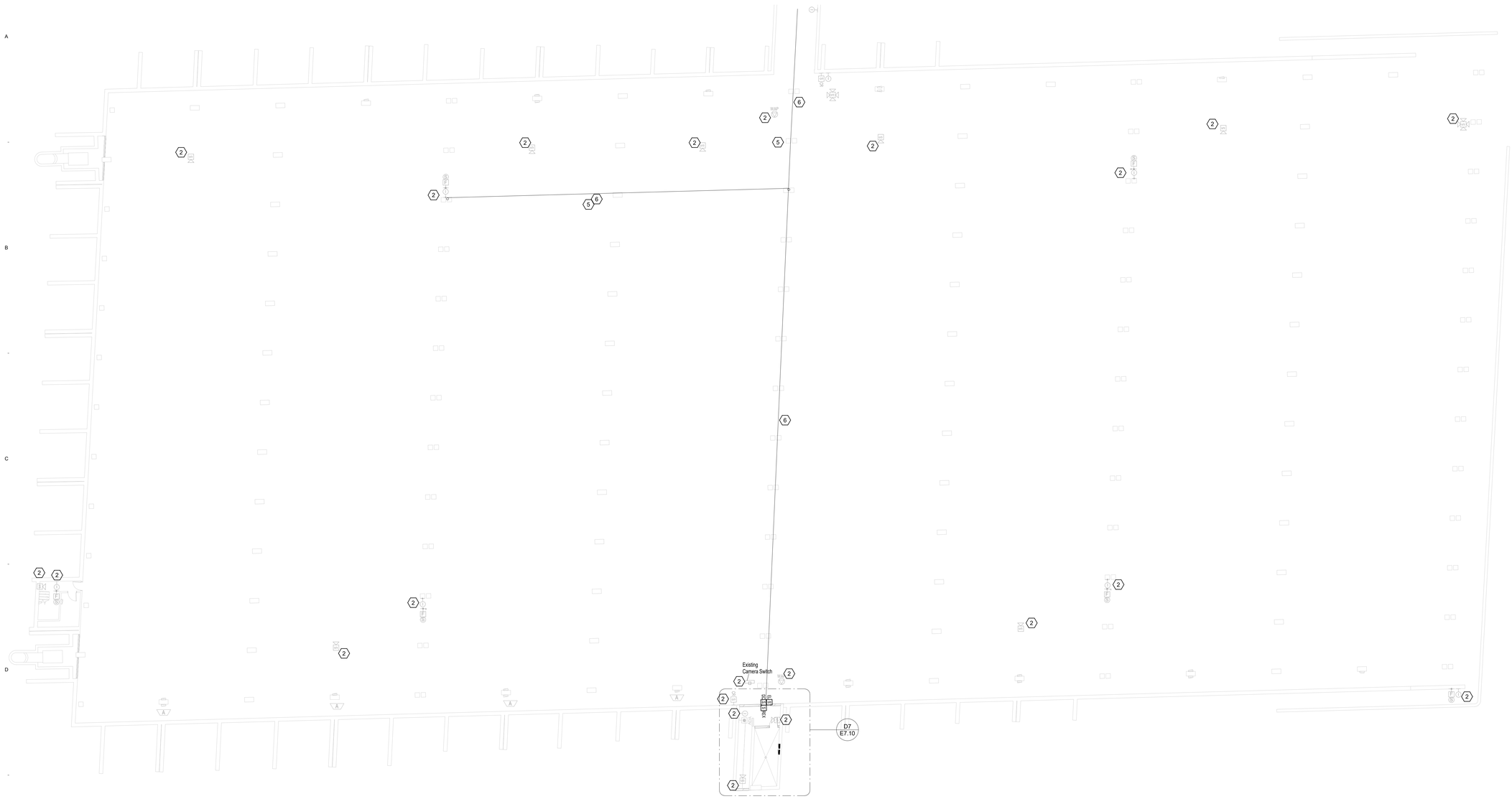
Scale: **As Indicated**

DESIGN DEVELOPMENT ESTIMATE SET
NOT FOR CONSTRUCTION

E2.400

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

MN



X-14 PARKING RAMP - LEVEL 0 - SYSTEMS PLAN
1/16" = 1'-0"

E

KEYED SHEET NOTES

1. PRECAST CONCRETE WALL INDICATED WITH DASH-DOT-DOT LINE. REFER TO ARCHITECTURAL PLANS FOR FULL EXTENTS. SEE SPECIFICATIONS FOR INSTALLATION OF RECESSED DEVICES IN PRECAST WALLS.
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NOT FOR CONSTRUCTION

CENTENNIAL OFFICE BUILDING DEMOLITION

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ST PAUL, MN 55155

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woldac.com | 651 227 7773

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G	H	J
K		

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License Number: **43936** BRADLEY R. JOHANNSEN Date

Revisions

Description	Date	Num

Comm: **252071**
Date:
Drawn: **Author**
Check: **Checker**
North

PARKING RAMP - LEVEL 0 - SYSTEMS PLAN

Scale: **As Indicated**

E3.100

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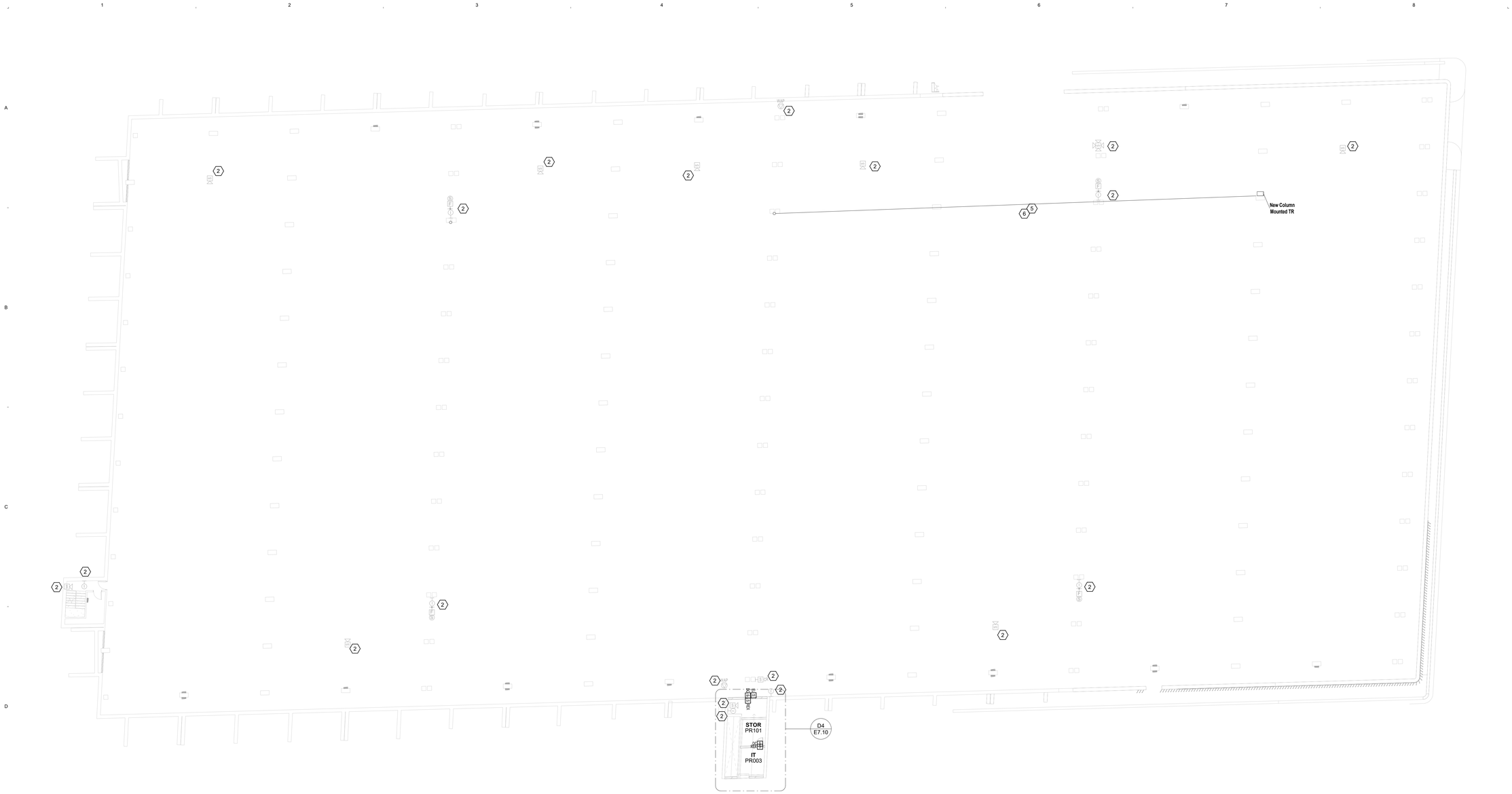

1 PARKING RAMP - LEVEL 1 - SYSTEMS PLAN
1/16" = 1'-0"

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Comm: **252071**
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North

PARKING RAMP - LEVEL 1 - SYSTEMS PLAN

Scale: **As Indicated**

E3.101

MN

E

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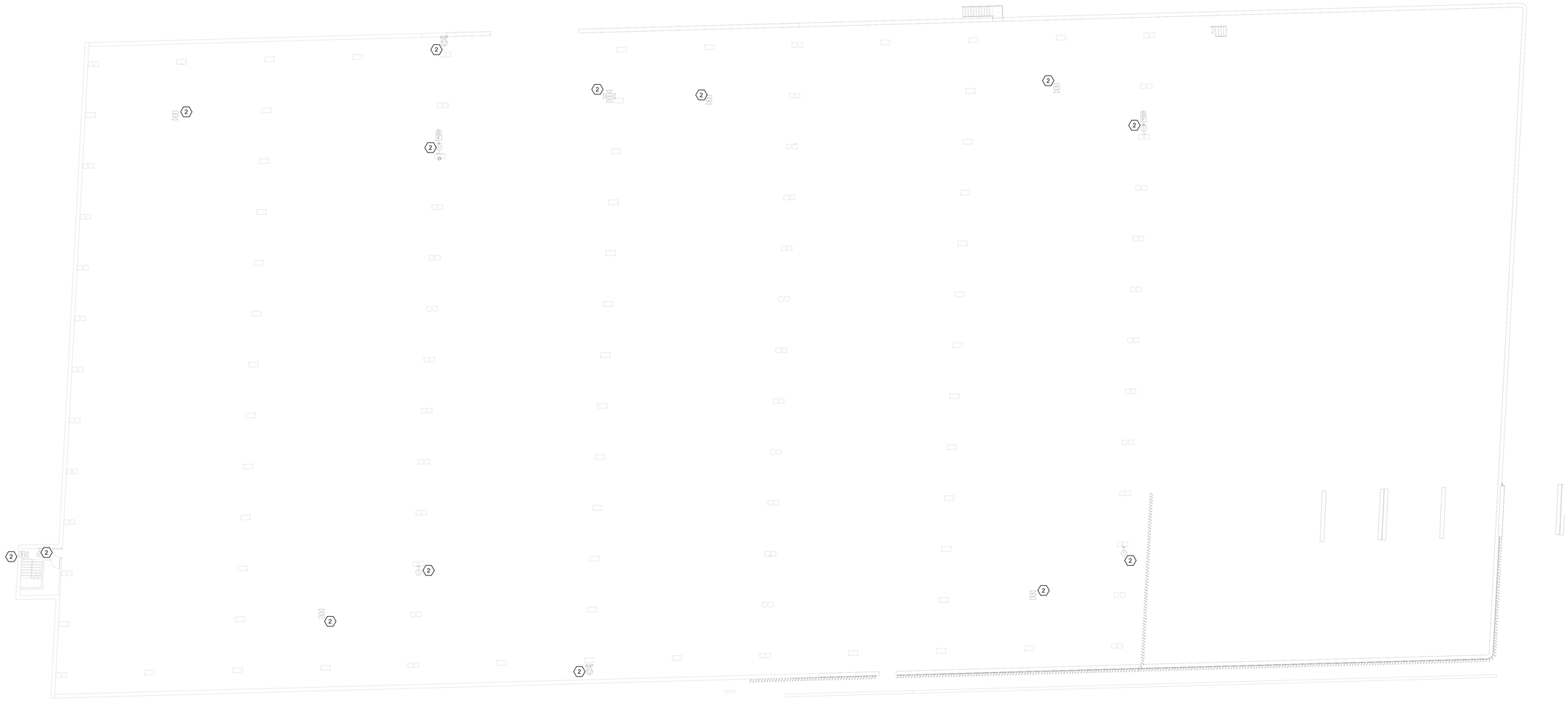
MN



E1 PARKING RAMP - LEVEL 2 - SYSTEMS PLAN
1/16" = 1'-0"

E

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North

PARKING RAMP - LEVEL 2 - SYSTEMS PLAN

Scale: **As Indicated**

E3.102

Autodesk Docs://2020 - Centennial Office Building Demolition/Centennial Office Building 2020.rvt
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10/30/2020 10:20:00 AM

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MN

1 PARKING RAMP - LEVEL 3 - SYSTEMS PLAN
1/16" = 1'-0"

E

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Revisions

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Comm: **252071**
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North

PARKING RAMP - LEVEL 3 - SYSTEMS PLAN

Scale: **As Indicated**

E3.103

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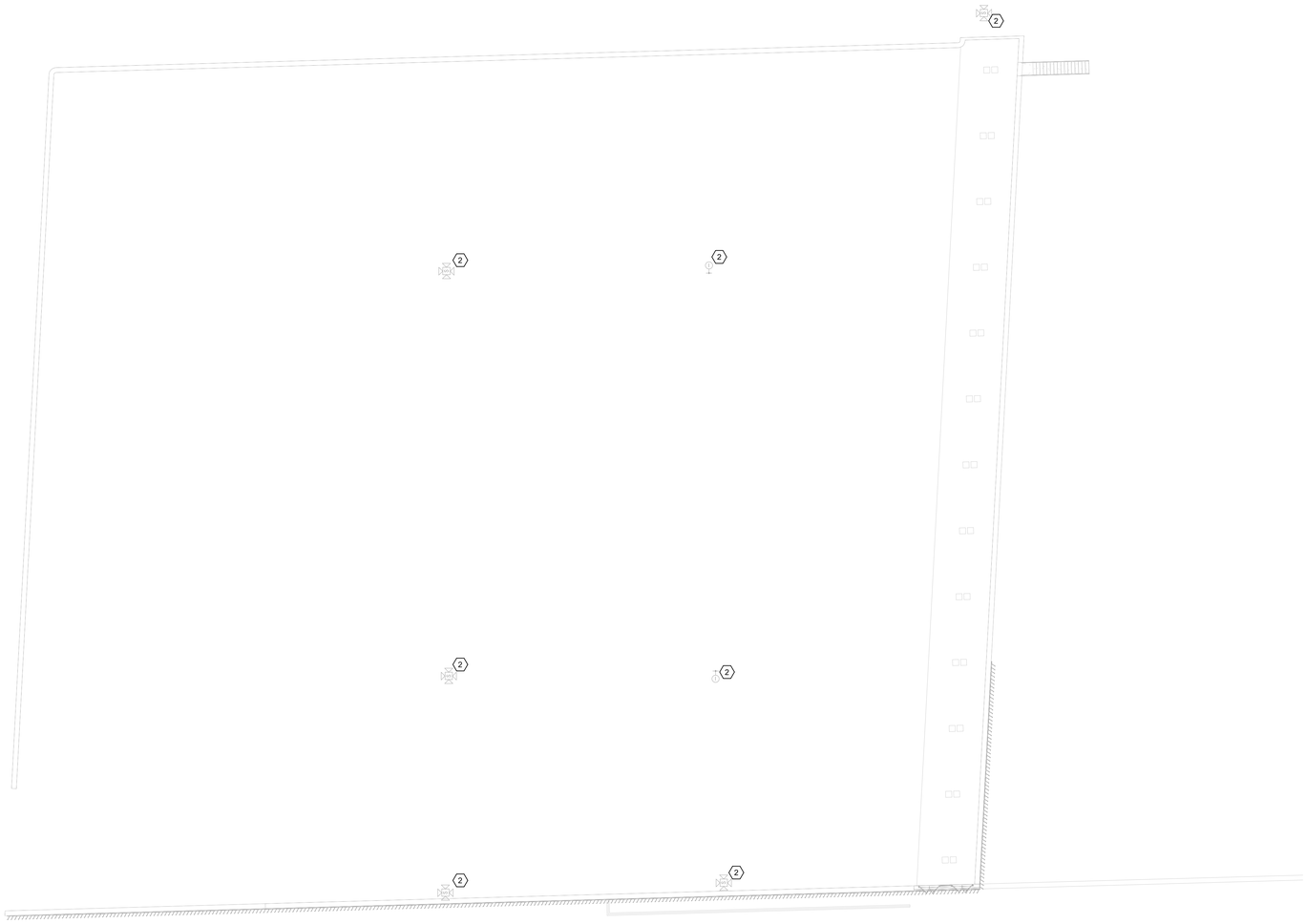
MN



1 PARKING RAMP - LEVEL 4 - SYSTEMS PLAN
1/16" = 1'-0"

E

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Drawn: **Author**
Check: **Checker**
North

PARKING RAMP - LEVEL 4 - SYSTEMS PLAN

Scale: **As Indicated**

E3.104

Autodesk Docs://252071 - Centennial Office Building Demolition/Centennial Office Building CD_C17.rvt
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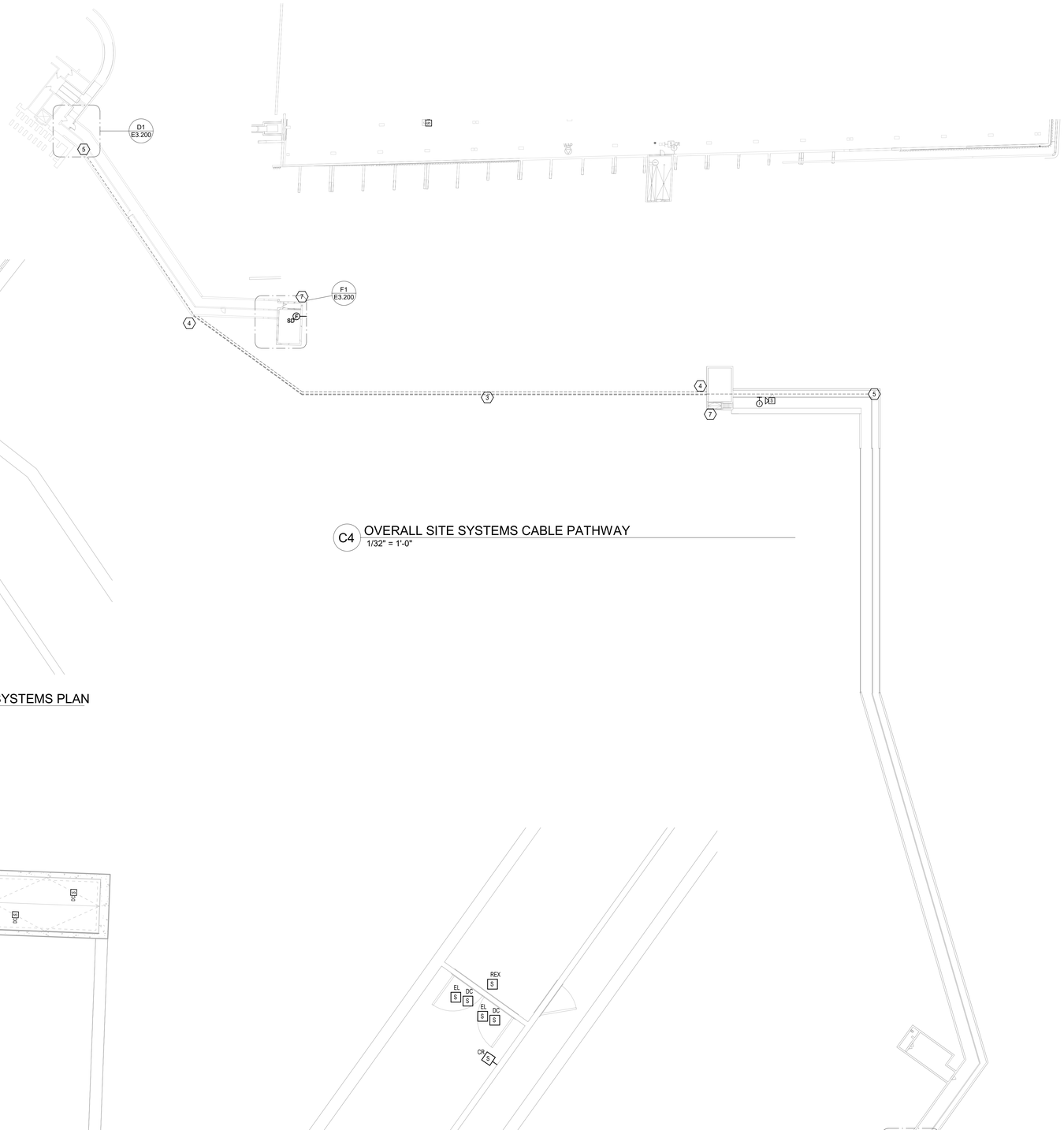
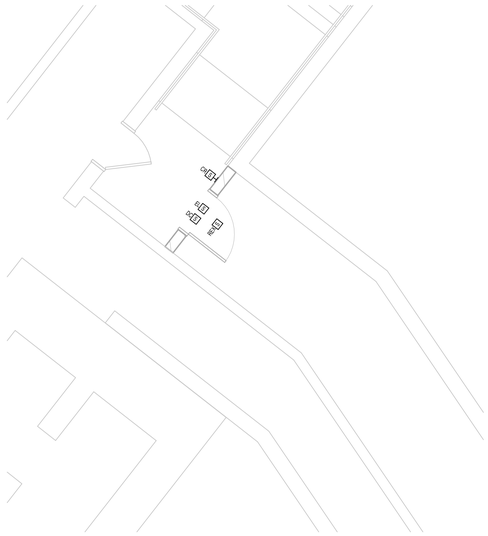
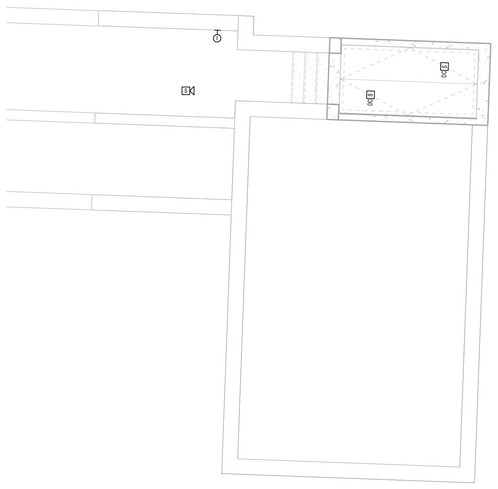
MN



C4 OVERALL SITE SYSTEMS CABLE PATHWAY
1/32" = 1'-0"



D1 JC - LEVEL BASEMENT - ENLARGED SYSTEMS PLAN
1/4" = 1'-0"



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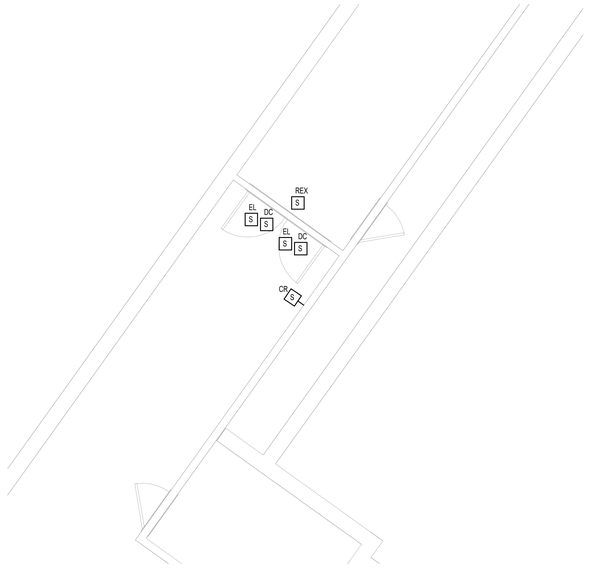

F3 VSB - LEVEL BASEMENT - ENLARGED SYSTEMS PLAN
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E

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D. MAINTAIN WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT FOR COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110.

E. INSTALL DATA/SYSTEMS CONDUIT WITH NO MORE THAN (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 100'-0" BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY. NOT ALL PULL BOXES ARE SHOWN ON PLANS.

F. ALL COMMUNICATIONS CABLES AND OTHER LOW VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

G. SYMBOLS USED ON TECHNOLOGY DRAWINGS ARE NOT A SCALED SIZE, THEREFORE LOCATIONS OF THE SYMBOLS ARE APPROXIMATE AND NEED TO BE COORDINATED WITH OTHER DEVICES AND ELEMENTS IN THE VICINITY.

KEYED SHEET NOTES

1. PRECAST CONCRETE WALL INDICATED WITH DASH-DOT-DOT LINE. REFER TO ARCHITECTURAL PLANS FOR FULL EXTENTS. SEE SPECIFICATIONS FOR INSTALLATION OF RECESSED DEVICES IN PRECAST WALLS.
2. RE-USE EXISTING CONDUIT, REMOVE EXISTING CABLING, CUT AND EXTEND CONDUIT TO NEW TR. PROVIDE NEW CABLING MATCHING EXISTING CABLE TYPES. REMOUNT AND CONNECT EXISTING DEVICE.
3. LOCATION OF (6) 4" CONDUIT DUCTBANK WITH INNERDUCT. CONCRETE ENCASED. EACH PATHWAY (4"C) SHALL BE PROVIDED WITH (3) 1.25" INNERDUCT WITH PULL TAPE.
4. PROVIDE STRUCTURAL PENETRATION AND SEALED SLEEVES TO PROPERLY TRANSITION DUCTBANK TO TUNNEL. INCLUDING CONCRETE ENCASEMENT, EXPANSION JOINING AND DOWELED RE-BAR AS REQUIRED. PROVIDE PLAN SKETCH FOR REVIEW PRIOR TO INSTALLATION.
5. PROVIDE TWO (2) ARMORED OSP 288 STRAND SINGLE-MODE FIBER. FIBER SHALL CONTINUE PAST DUCT BANK PENETRATION APPROXIMATELY 80 FEET ON BOTH ENDS AND ASSOCIATED PATHWAY SUPPORTS TO ACCOMMODATE APPROPRIATE LOCATION FOR SPLICING/TERMINATIONS. PROVIDE 60' SLACK ON BOTH ENDS. SPLICING/TERMINATIONS BY OWNER.
6. PROVIDE TWO 1" CONDUITS BETWEEN PARKING COLUMNS FROM ALL THREE TRs. (TWO COLUMN MOUNTED AND ONE STANDARD TR.
7. PROVIDE 2 DOOR CONTACTS TO ACCOMMODATE TUNNEL DOOR HATCH AT GRADE.

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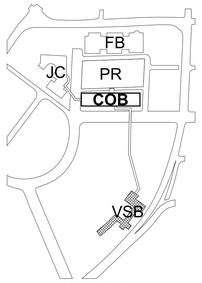

KEY PLAN

A	B	C
D	E	F
G	H	J
K		

KEY PLAN

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License Number: **BRADLEY R. JOHANNSEN** **43936** Date

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OVERALL SITE SYSTEMS CABLE PATHWAY - SYSTEMS PLAN

Scale: **As indicated**

E3.200

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MN

GENERAL NOTES:

A. PROVIDE XHHW INSULATION FOR UNDERGROUND CONDUCTORS.

B. PROVIDE GALVANIZED RIGID STEEL CONDUIT FOR EXPOSED EXTERIOR CONDUITS.

C. ROUTE HORIZONTAL CONDUITS ABOVE BOTTOM CHORD OF BAR JOISTS UNLESS NOTED OTHERWISE. ROUTE CONDUITS FROM WALL MOUNTED DEVICES VERTICALLY TO JOIST SPACE UNLESS NOTED OTHERWISE.

D. OBTAIN SHOP DRAWINGS OF EQUIPMENT AND COMPARE CONNECTION, LOAD, AND VOLTAGE INFORMATION TO CONTRACT DOCUMENTS BEFORE INSTALLING FEEDER CONDUITS. NOTIFY ARCHITECT OF ANY DISCREPANCIES. BEFORE MAKING EQUIPMENT POWER CONNECTIONS, COMPARE EQUIPMENT NAMEPLATE DATA TO SHOP DRAWINGS AND CONTRACT DOCUMENTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

E. MOTOR FEEDERS SHOWN ON DIAGRAM FOR REFERENCE. REFER TO MOTOR SCHEDULE FOR MORE INFORMATION.

F. REFER TO SITE PLAN FOR EXACT LOCATIONS OF EXTERIOR EQUIPMENT.

G. COORDINATE ALL DEMOLITION WITH PHASING PLANS. SEE ELECTRICAL FLOOR PLANS AND ARCHITECTURAL PHASING PLANS.

H. SEE GROUNDING DETAIL ON E7 SHEETS.

I. PROVIDE CONCRETE PAD FOR FLOOR-MOUNTED EQUIPMENT.

LINE TYPES:

EXISTING EQUIP/FEEDER TO REMAIN — EX

DEMOLISH OR RELOCATE EQUIP/FEEDER — RL

NEW OR NEW LOCATION OF EQUIP/FEEDER — NL

KEYED NOTES:

1. PROVIDE NEW EQUIPMENT IN LINK TO GARAGE. INTERCEPT FEEDERS FROM COB EQUIPMENT WHICH SERVES GARAGE EQUIPMENT, AND REFEED FROM NEW LINK EQUIPMENT AS INDICATED. ASSUME MAJORITY OF FEEDERS ARE ROUTED THROUGH EXISTING PULL BOX.
2. FEED NEW LINK EQUIPMENT FROM FREEMAN BUILDING.
3. EXISTING PANEL PL1 LOCATED IN COB FEEDS (24) CHARGING STATIONS LOCATED IN GARAGE. INTERCEPT BRANCH CIRCUITRY AND REFEED FROM NEW PANEL PL1 LOCATED IN LINK.
4. DEMOLISH UNUSED PANEL LOCATED WITHIN LINK.
5. FEED NEW DPH1 IN LINK FROM FREEMAN BUILDING.

3 PHASE FEEDER SCHEDULE (COPPER)

	FEEDER 3W	FEEDER 4W
ID	(NO NEUTRAL)	(WITH NEUTRAL)
(AMPS)	CONDUIT-PHASE-GROUND	CONDUIT-PHASE-GROUND
20A	(1) 1/2"C, 3#12+1#12G	(1) 1/2"C, 4#12+1#12G
30A	(1) 3/4"C, 3#10+1#10G	(1) 3/4"C, 4#10+1#10G
40A	(1) 3/4"C, 3#8+1#10G	(1) 3/4"C, 4#8+1#10G
50A	(1) 1"C, 3#6+1#10G	(1) 1"C, 4#6+1#10G
60A	(1) 1.25"C, 3#4+1#8G	(1) 1.25"C, 4#4+1#8G
80A	(1) 1.25"C, 3#3+1#8G	(1) 1.25"C, 4#3+1#8G
100A	(1) 1.5"C, 3#1+1#6G	(1) 1.5"C, 4#1+1#6G
125A	(1) 1.5"C, 3#1+1#6G	(1) 1.5"C, 4#1+1#6G
150A	(1) 1.5"C, 3#1/0+1#6G	(1) 1.5"C, 4#1/0+1#6G
175A	(1) 1.5"C, 3#2/0+1#6G	(1) 2"C, 4#2/0+1#6G
200A	(1) 2"C, 3#3/0+1#6G	(1) 2"C, 4#3/0+1#6G
225A	(1) 2"C, 3#4/0+1#4G	(1) 2.5"C, 4#4/0+1#4G
250A	(1) 2"C, 3#250+1#4G	(1) 2.5"C, 4#250+1#4G
300A	(1) 2.5"C, 3#350+1#4G	(1) 3"C, 4#350+1#4G
400A	(2) 2"C, 3#3/0+1#3G	(2) 2"C, 4#3/0+1#3G
500A	(2) 2"C, 3#250+1#2G	(2) 2.5"C, 4#250+1#2G
600A	(2) 2.5"C, 3#350+1#1G	(2) 3"C, 4#350+1#1G
800A	(3) 2.5"C, 3#300+1#1/0G	(3) 2.5"C, 4#300+1#1/0G
1000A	(3) 3"C, 3#400+1#2/0G	(3) 3"C, 4#400+1#2/0G
1200A	(4) 3"C, 3#350+1#3/0G	(4) 3"C, 4#350+1#3/0G
1600A	(5) 3"C, 3#400+1#4/0G	(5) 3"C, 4#400+1#4/0G
2000A	(6) 3"C, 3#400+1#250G	(6) 3"C, 4#400+1#250G
2500A	(7) 3"C, 3#500+1#350G	(7) 3"C, 4#500+1#350G
3000A	(8) 3"C, 3#500+1#400G	(8) 3.5"C, 4#500+1#400G

GENERAL NOTES:

A. THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.

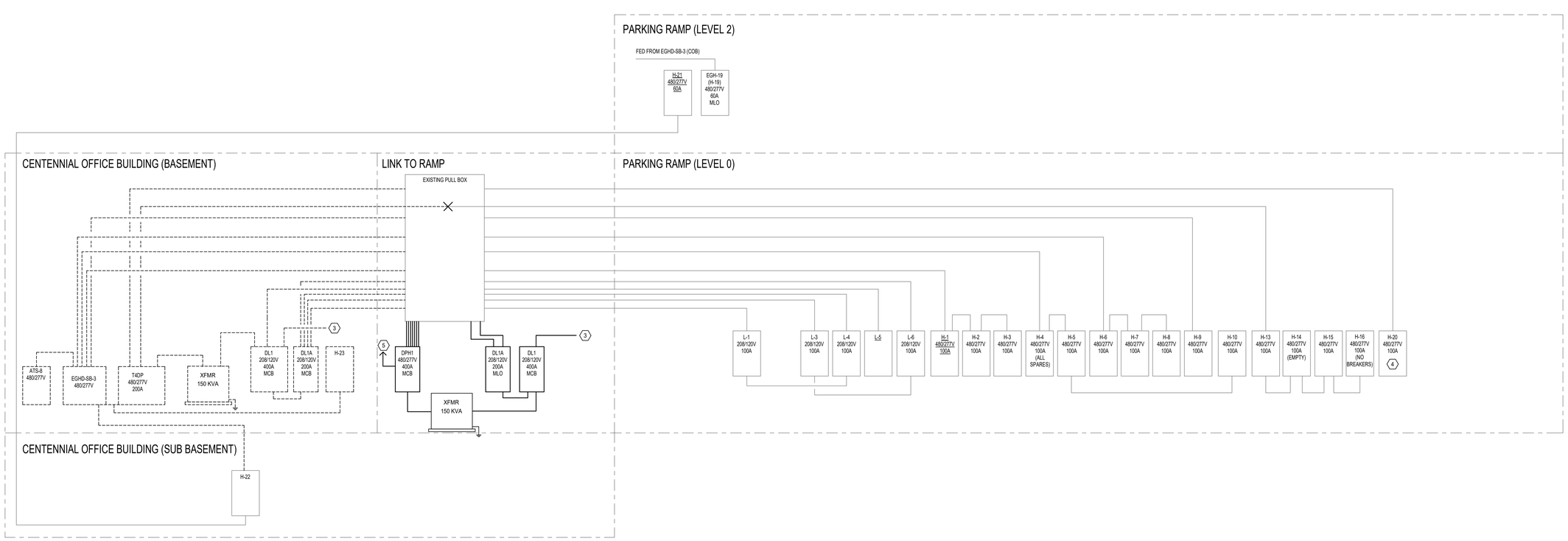
B. CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-15 OF THE NEC FOR COPPER CONDUCTOR AT 60 DEG C FOR 100A AND BELOW. AMPACITIES ARE BASED ON 75 DEG C FOR 125A AND ABOVE.

C. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DURATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.

D. WHERE PARALLEL CONDUITS ARE INDICATED FOR A SINGLE FEEDER, EACH CONDUIT SHALL CONTAIN PHASE, NEUTRAL, AND GROUND CONDUCTORS INDICATED.

E. CONDUIT ABOVE GRADE INDOORS SHALL BE EMT. CONDUIT ABOVE GRADE OUTDOORS SHALL BE GALVANIZED IMC OR RMC.

F. EMT USED FOR PURPOSES OF SIZING CONDUIT. CONTRACTOR TO UPSIZE CONDUIT IF DIFFERENT THAN EMT.



F1 RISER DIAGRAM - CENTENNIAL OFFICE BUILDING, LINK RAMP, AND PARKING GARAGE
N.T.S.

E

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ELECTRICAL RISER DIAGRAMS

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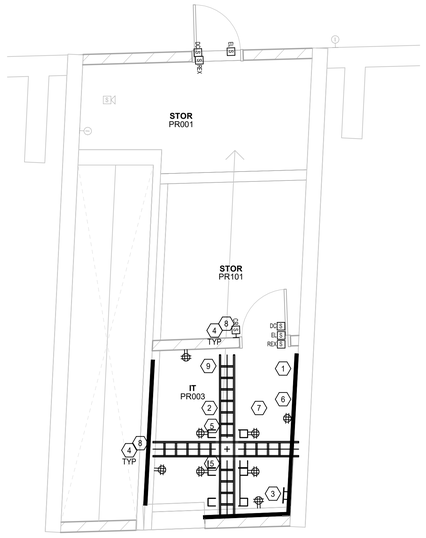
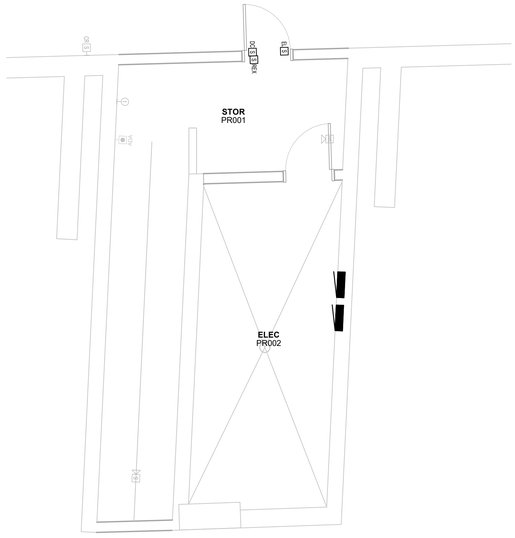


D4 PARKING RAMP - LEVEL 1 - IT PR003
1/4" = 1'-0"



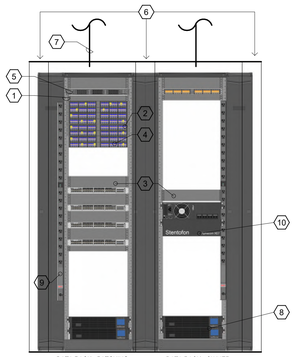
D7 PARKING RAMP - LEVEL 0 - ELEC PR002
1/4" = 1'-0"

KEYED SHEET NOTES

1. 1. PROVIDE 3/4" FIRERATED PLYWOOD ON ALL WALLS, 8'AFF TO 8'8" AFF.
2. DIV 27 PROVIDE 12" WIDE LADDER RACKING AND ASSOCIATED MOUNTING HARDWARE 6" ABOVE RACKING PER PLAN LAYOUT.
3. PROVIDE TELECOMMUNICATIONS BONDING BUSBAR AT 96" AFF NEXT TO LADDER RACKING.
4. PROVIDE CONDUIT FOR ALL CABLING FROM TR TO DEVICES. TYPICAL.
5. PROVIDE DEDICATED POWER OUTLET FOR EACH RACK. MOUNT ON LADDER RACKING.
6. SPACE FOR ACCESS CONTROL PANELS. DIV 26 TO PROVIDE DEDICATED OUTLET.
7. COORDINATE RACK LAYOUT IN THE ROOM WITH THE OWNER'S IT PRIOR TO WORK START.
8. RE-ROUTE EXISTING CONDUIT FEEDS FROM PARKING LOT.
9. SPACE FOR DAS. DIV 26 TO PROVIDE DEDICATED OUTLET.

NUMBERED NOTES - DATA RACK/CABINET DETIAL

1. PROVIDE 19"W X84"H 2-POST RACK(S), 45 RACK MOUNTING UNITS (RMU) TELECOMMUNICATION RACK. PROVIDE RACK QUANTITIES AS REQUIRED TO ACCOMMODATE ALL DATA/VOICE EQUIPMENT. BOLT TO FLOOR WHEN COMPLETE. VERIFY EXACT CONFIGURATION WITH OWNER PRIOR TO ANY WORK.
2. PROVIDE 48-PORT MODULAR PATCH PANELS IN QUANTITIES AS REQUIRED TO ACCOMMODATE ALL VOICE AND DATA OUTLETS INDICATED ON PLANS PLUS 15% ADDITIONAL SPARE CAPACITY .
3. PROVIDE HORIZONTAL CABLE MANAGEMENT PANELS. ALL CABLES IN RACK SHALL BE COVERED. PROVIDE QUANTITIES AS REQUIRED IN EACH RACK.
4. PROVIDE CATEGORY CABLE PATCH CORD QUANTITIES AS PER SPECIFICATIONS. VERIFY EXACT PATCH CORD LENGTH AND COLOR WITH THE OWNER PRIOR TO PROVIDING.
5. PROVIDE FIBER OPTIC DISTRIBUTION CENTER (FDC) WITH CONNECTORS AS INDICATED IN SPECIFICATIONS. PROVIDE FIBER PATCH CORD QUANTITIES AS PER SPECIFICATIONS.
6. PROVIDE VERTICAL WIRE MANAGEMENT AS PER SPECIFICATIONS. ALL CABLE IN RACK SHALL BE COVERED; PROVIDE WIRE MINDERS AS NEEDED.
7. PROVIDE/REINSTALL/RETERMINATE FIBER DATA BACKBONE AS SPECIFIED. SEE TELECOM BACKBONE DIAGRAMS AND REFER TO DIVISION 27 SPECIFICATIONS.
8. PROVIDE ADEQUATE SPACE IN THE BOTTOM OF OWNER EQUIPMENT RACK FOR UPS.
9. PROVIDE RACK MOUNTED PDU AS PER SPECIFICATIONS FOR OWNER'S EQUIPMENT.
10. RE-LOCATED EXISTING STENTOFON EQUIPMENT.



F6 DATA RACK DETAIL ELEVATION TR
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ELECTRICAL DETAILS - SYSTEMS

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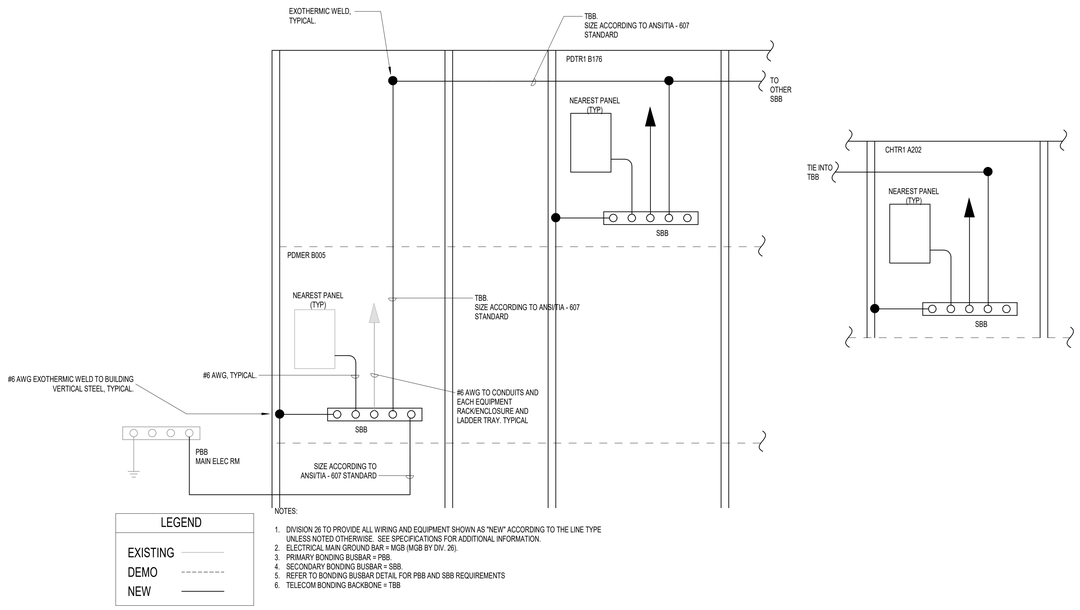


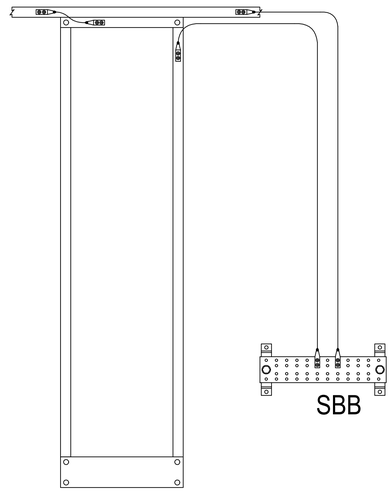
LEGEND

EXISTING	———
DEMO	- - - - -
NEW	———

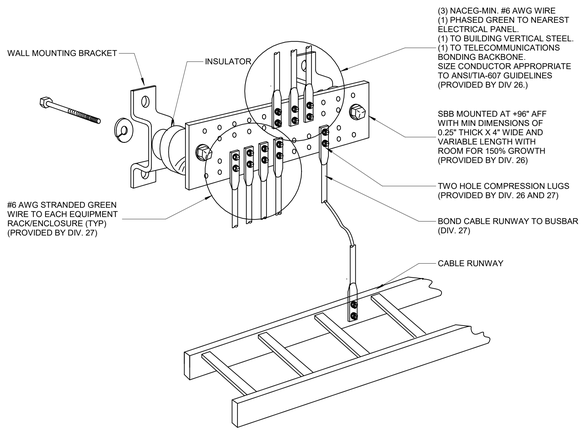
NOTES:

1. DIVISION 26 TO PROVIDE ALL WIRING AND EQUIPMENT SHOWN AS "NEW" ACCORDING TO THE LINE TYPE UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ELECTRICAL MAIN GROUND BAR = MGB (MGB BY DIV. 26).
3. PRIMARY BONDING BUSBAR = PBB.
4. SECONDARY BONDING BUSBAR = SBB.
5. REFER TO BONDING BUSBAR DETAIL FOR PBB AND SBB REQUIREMENTS
6. TELECOM BONDING BACKBONE = TBB

C1 TELECOMMUNICATIONS GROUNDING AND BONDING SYSTEM DETAIL
N.T.S.

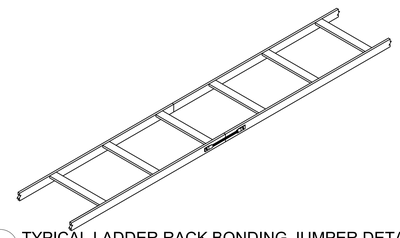


C5 TYPICAL TR EQUIPMENT RACK GROUNDING & BONDING DETAIL
NTS



NOTES:
1. SECONDARY BONDING BUSBAR (SBB) FOR THE TELECOMMUNICATIONS GROUNDING AND BONDING SYSTEM
2. SBB SHALL MEET ANSI/TIA-607 (CURRENT EDITION) REQUIREMENTS FOR NETWORK SYSTEMS BONDING APPLICATIONS.
3. IDENTIFY BUSBAR TO MEET ANSI/TIA-606 LABELING STANDARDS.

E1 SECONDARY BONDING BUSBAR (SBB)
N.T.S.



F6 TYPICAL LADDER RACK BONDING JUMPER DETAIL
NTS

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ELECTRICAL DETAILS - SYSTEMS

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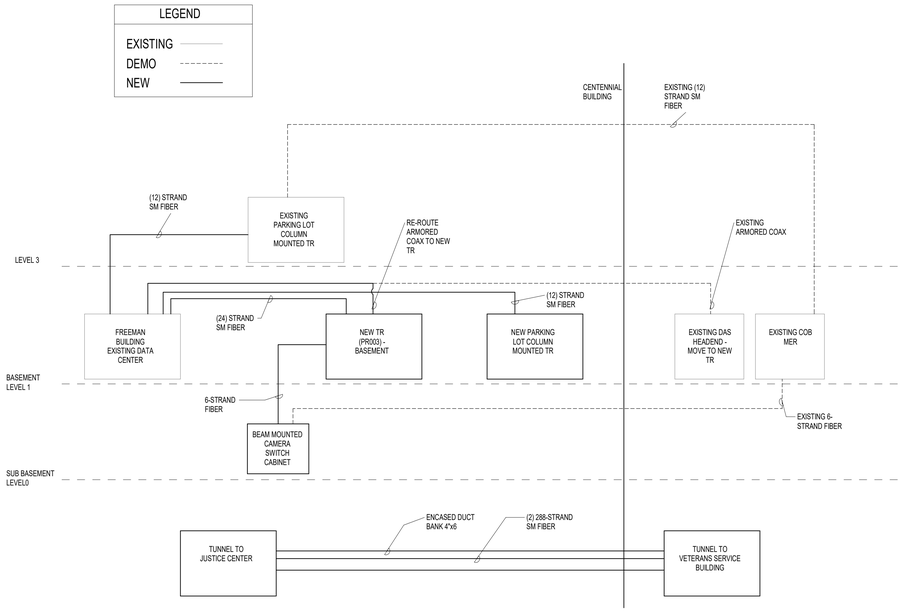
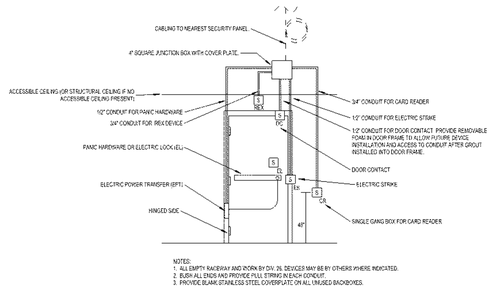
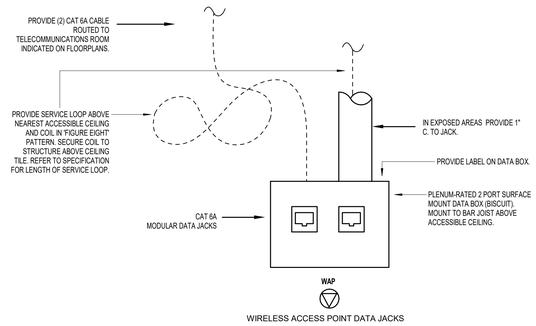


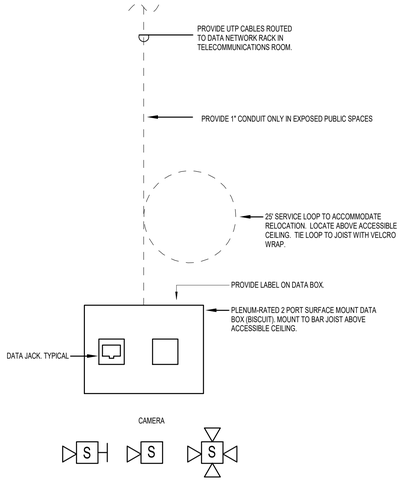
1 COMMUNICATIONS BACKBONE CABLING RISER
N.T.S.



NOTES:
1. ALL EMPTY RACEWAY AND WORK BY DIV. 26. DEVICES MAY BE BY OTHERS WHERE INDICATED.
2. BUSH ALL ENDS AND PROVIDE PULL STRING IN EACH CONDUIT.
3. PROVIDE BLANK STAINLESS STEEL COVERSPLATE ON ALL UNUSED BACKBOXES.

F6 DOOR SECURITY ROUGH-INS
N.T.S.





F6 TELECOM OUTLET CONFIGURATIONS
NTS

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ELECTRICAL DETAILS - SYSTEMS

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Central: https://a360.co/w/projects/shared/BIM%20Projects/2021/Standard Work in Progress Templates/Revit
Central: 2022
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Appendix D: Contamination and Hazards

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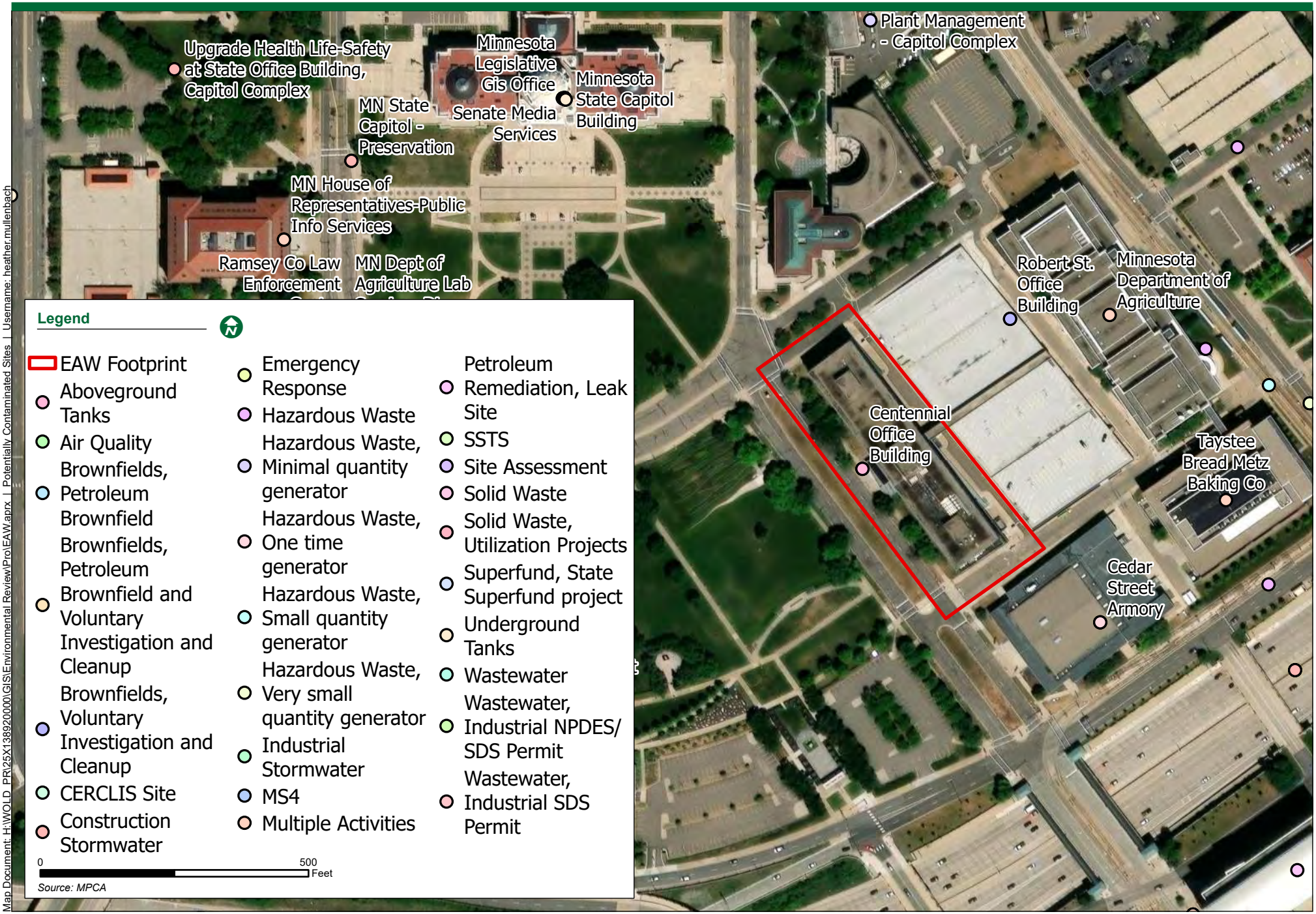

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Minnesota Unique Well Number

234093

County Ramsey
Quad St Paul East
Quad ID 103A

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date 08/29/2018
Update Date 12/18/2020
Received Date

Well Name	Township	Range	Dir	Section	Subsection
H-40	29	22	W	31	CACBBB

Elevation 845.5 **Elev. Method** Surveyed

Address

Stratigraphy Information

Geological Material	From	To (ft.)	Color	Hardness
NO ENTRY	0	2		
CLAYEY SAND, LITTLE	2	14		
CLAY W/ SAND SEAM	14	16	BROWN	

Remarks

Well Depth 16 ft. **Depth Completed** 16 ft. **Date Well Completed** 04/21/1981

Drill Method **Drill Fluid**

Use environ. bore hole **Status** Active

Well Hydrofractured? **Yes** ☐ **No** ☐ **From** **To**

Casing Type **Joint**
Drive Shoe? **Yes** ☐ **No** ☐ **Above/Below**

Open Hole From ft. To ft.

Screen? ☐ **Type** **Make**

Static Water Level

Pumping Level (below land surface)

Wellhead Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Grouting Information Well Grouted? ☐ Yes ☐ No ☐ Not Specified

Nearest Known Source of Contamination
feet Direction Type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☒ Not Installed Date Installed
Manufacturer's name
Model Number HP Volt
Length of drop pipe ft Capacity g.p. Typ

Abandoned
Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance
Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Miscellaneous
First Bedrock Aquifer
Last Strat clay+sand-brown Depth to Bedrock ft
Located by Minnesota Geological Survey
Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or
System UTM - NAD83, Zone 15, Meters X 492038 Y 4977818
Unique Number Verification Site Plan Input Date 12/17/2020

Angled Drill Hole

Well Contractor
Owner 99999 SEE SCAN
Licensee Business Lic. or Reg. No. Name of Driller

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Minnesota Unique Well Number

234092

County Ramsey
Quad St Paul East
Quad ID 103A

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date 08/29/2018
Update Date 04/10/2023
Received Date

Well Name	Township	Range	Dir	Section	Subsection
H-39	29	22	W	31	CACDCC

Elevation 808.5 **Elev. Method** Surveyed

Address

Stratigraphy Information

Geological Material	From	To (ft.)	Color	Hardness
NO ENTRY	0	2		
SAND - ORGANIC -	2	6		
SAME - ORGANIC SILT,	6	8	DARK	
ORGANIC SILT -	8	14	DK. BRN	
ORGANIC SILT &	14	16	GRAY	

Remarks

Well Depth 16 ft. **Depth Completed** 16 ft. **Date Well Completed** 04/21/1981

Drill Method **Drill Fluid**

Use environ. bore hole **Status** Active

Well Hydrofractured? **Yes** ☐ **No** ☐ **From** **To**

Casing Type **Joint**
Drive Shoe? **Yes** ☐ **No** ☐ **Above/Below**

Open Hole From ft. To ft.

Screen? ☐ **Type** **Make**

Static Water Level

Pumping Level (below land surface)

Wellhead Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Grouting Information Well Grouted? ☐ Yes ☐ No ☐ Not Specified

Nearest Known Source of Contamination
feet Direction Type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☒ Not Installed Date Installed
Manufacturer's name
Model Number HP Volt
Length of drop pipe ft Capacity g.p. Typ

Abandoned
Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance
Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Miscellaneous
First Bedrock Aquifer
Last Strat silt-gray Depth to Bedrock ft
Located by Minnesota Geological Survey
Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or
System UTM - NAD83, Zone 15, Meters X 492146 Y 4977659
Unique Number Verification Site Plan Input Date 12/17/2020

Angled Drill Hole

Well Contractor
Owner 99999 SEE SCAN
Licensee Business Lic. or Reg. No. Name of Driller

Minnesota Well Index Report | **234092** | Printed on 06/30/2025
HE-01205-15

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

MINNESOTA POLLUTION CONTROL AGENCY

Downtown BP

Site ID	LS0022161
Site type	Leak Site
Location	542 Robert S N Saint Paul, MN 55101 Ramsey County
Release discovered	01/10/2024
Release reported	01/10/2024
Site closure date	Active
Product released	Gasoline
Regulatory designation	Federal
Project manager	Knox, Wesley

lat/long: 44.95206964,-93.09475457

Cleanup actions

There are no cleanup actions to display for this site.

Site contacts

Type	Name	Address	Start date	End date
has Responsible Party of	Tony Rammer	201 County Road E2 W New Brighton, Minnesota 551126821	01/10/2024	
has Responsible Party of	Luther Properties LLC	201 County Road E2 W New Brighton, Minnesota 551126821	01/10/2024	
has EDS Responsible Official of	Tony Rammer	201 County Road E2 W New Brighton, Minnesota 551126821	01/10/2024	
has EDS Responsible Official of	Luther Properties LLC	201 County Road E2 W New Brighton, Minnesota 551126821	01/10/2024	

Treatments

There are no treatments to display for this site.

Reporting

Task	Start	End
Leak Discovered	01/10/2024	01/10/2024
Leak Reported	01/10/2024	01/10/2024
Responsible Party Determined	01/26/2024	01/26/2024

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Task	Start	End
Standard Letter Issued	01/26/2024	01/26/2024

Field work

There are no field work events to display for this site.

Release details

Tank type	UST
Tank material	Unknown
Piping material	Unknown
Source of the release	Tank
Cause of the release	Unknown
Release detection method	Other
Has the site ever had an E-85 tank?	Unknown

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MINNESOTA POLLUTION CONTROL AGENCY

MN Dept of Admin Ford Building

Site ID	LS0022431
Site type	Leak Site
Location	117 University Ave W Saint Paul, MN 55155 Ramsey County
Release discovered	05/22/2025
Release reported	05/23/2025
Site closure date	Active
Product released	Fuel Oil #1 & #2
Regulatory designation	State
Project manager	Mikkelson, Marcell

lat/long: 44.95613923,-93.10493355

Cleanup actions

There are no cleanup actions to display for this site.

Site contacts

Type	Name	Address	Start date	End date
has Responsible Party of	Cindy Dillahunty	112 Administration Bldg 50 Sherburne Ave Saint Paul, Minnesota 551551402	05/23/2025	
has Responsible Party of	State of Minnesota Facilities Management Division	112 Administration Bldg 50 Sherburne Ave Saint Paul, Minnesota 551551402	05/23/2025	
has property owner of	State of Minnesota Facilities Management Division	112 Administration Bldg 50 Sherburne Ave Saint Paul, Minnesota 551551402	05/23/2025	

Treatments

There are no treatments to display for this site.

Reporting

Task	Start	End
Leak Discovered	05/22/2025	05/22/2025
Leak Reported	05/23/2025	05/23/2025

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Task	Start	End
Responsible Party Determined	06/02/2025	06/02/2025
Standard Letter Issued	06/02/2025	06/02/2025

Field work

There are no field work events to display for this site.

Release details

Tank type	UST
Tank material	Steel
Piping material	Unknown
Source of the release	Tank
Cause of the release	Unknown
Release detection method	Removal
Has the site ever had an E-85 tank?	No

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

MINNESOTA POLLUTION CONTROL AGENCY

Kellogg Blvd and Robert St UST

Site ID	LS0022067
Site type	Leak Site
Location	Kellogg Blvd and Robert St Saint Paul, MN 55101 Ramsey County
Release discovered	08/28/2023
Release reported	08/30/2023
Site closure date	Active
Product released	Diesel
Regulatory designation	Federal
Project manager	Allen, Luis

lat/long: 44.94579304,-93.08906577

Cleanup actions

There are no cleanup actions to display for this site.

Site contacts

Type	Name	Address	Start date	End date

Treatments

There are no treatments to display for this site.

Reporting

Task	Start	End
Leak Discovered	08/28/2023	08/28/2023
Leak Reported	08/30/2023	08/30/2023

Field work

There are no field work events to display for this site.

Release details

Tank type	UST
Tank material	Steel
Piping material	Unknown
Source of the release	Tank
Cause of the release	Unknown
Release detection method	Removal

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Has the site ever had an E-85 tank?	No

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

APPENDIX D – ASBESTOS AND REGULATED MATERIAL INSPECTION

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

REPORT OF:
ASBESTOS AND REGULATED MATERIAL INSPECTION

CENTENNIAL OFFICE BUILDING
658 CEDAR STREET
ST. PAUL, MN

LEGEND No. 2403205

September 20, 2024

Submitted by:

LEGEND TECHNICAL SERVICES, INC.
88 Empire Drive
St. Paul, MN 55103
651/642-1150

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND
Technical Services, Inc.
88 Empire Drive • St. Paul, Minnesota • 55103
(651)642-1150

September 20, 2024

Mr. Jacob Wollensak
Wold Architects and Engineers
332 Minnesota Street, Suite W2000
St. Paul, MN 55101

RE: Centennial Office Building
Asbestos and Regulated Material Inspection
LEGEND No. 2403205

The following is the final report of the asbestos testing and regulated material inspection performed within and on the Centennial Office Building located at 658 Cedar Street, St. Paul, MN. The testing was performed between August 27 and September 20, 2024 by Keith Giorgi and Todd Giorgi of LEGEND TECHNICAL SERVICES, INC. (LEGEND).

If you should have any questions regarding this report, please feel free to contact me at 651-221-4069.

Cordially,

LEGEND TECHNICAL SERVICES, INC.

Keith Giorgi
Asbestos Inspector AI2213

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.

ASBESTOS AND REGULATED MATERIAL INSPECTION

CENTENNIAL OFFICE BUILDING
658 CEDAR STREET
ST. PAUL, MN

LEGEND No. 2403205

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Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

NARRATIVE REPORT

1.0 INTRODUCTION

The following is the final report of the asbestos and regulated material inspection performed within and on the Centennial Office Building located at 658 Cedar Street, St. Paul, MN. The testing was performed between August 27 and September 20, 2024 by Keith Giorgi and Todd Giorgi of LEGEND TECHNICAL SERVICES, INC. (LEGEND).

2.0 BACKGROUND INFORMATION

The building is currently used as an office building and was occupied at the time of the inspection. The building was constructed in 1958 and is comprised of seven levels in addition to three penthouse mechanical rooms located on the roof. This inspection was performed to determine if asbestos containing building materials are present in the building in addition to regulated materials which will be required to be removed prior to demolition.

LEGEND was provided a copy of a previous asbestos inspection report prepared by Industrial Hygiene Services Corporation (IHSC) dated April 4, 2016 which was a comprehensive inspection and contained results of testing performed in 2016 in addition to 2010 and 2013. It is to be noted that there are some discrepancies in this report and that some of the materials they identify as asbestos were abated or not present. The results contained in IHSC's report were utilized in determining which materials needed further testing for confirmation or were missed in previous inspections.

LEGEND also performed previous asbestos testing in 2021 which was specific to roof drain pipe insulations.

As the building was occupied during the inspection, destructive testing was not performed (i.e. open up wall and ceiling cavities to inspect for concealed materials, inspect for exterior granite wall panel adhesives, inspect for ceramic tile thin sets/adhesives, etc.) and no roof samples were collected as this would require cutting holes into the existing roof which would results in leaks. It is to be noted that the roof was a built-up aggregate-type roof and appeared fairly old. The roof and/or base flashings have the potential of containing asbestos. Once the building is vacant and prior to demolition, destructive testing and roof sampling will need to be performed.

3.0 METHODOLOGY

3.1 Asbestos

The samples were collected in accordance with the Minnesota Department of Health Rules 4620.3460. The samples were analyzed in LEGEND's laboratory for the presence of asbestos fibers using polarized light microscopy (PLM) and dispersion staining techniques. The analysis was performed using an Olympus BHSP microscope at 40-200X magnification in accordance with current U.S. Environmental Protection Agency (USEPA) protocols, "Method for the Determination of Asbestos in Bulk Building Materials", EPA 600/R-93/116, 1993 and "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600M-82-020, December, 1992. An asbestos containing material is defined as any material containing greater than one percent asbestos as analyzed by PLM techniques. Note that destructive testing was not performed.

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3.2 Regulated Materials

Regulated materials are items that cannot be disposed of in a demolition landfill and must be removed and recycled/disposed of properly prior to demolition. Regulated materials are items such as mercury containing devices, fluorescent bulbs, LED bulbs, PCB ballasts, electronics, oil filled door closers, etc. LEGEND documented all of the items that are attached to the building which are considered as regulated and no items such as computers, appliances, stored chemicals, etc. were noted.

4.0 RESULTS

4.1 Asbestos Results

A total of 93 samples were collected of suspect asbestos materials that were not previously tested or required confirmation testing and included plasters, concrete, mortars, clay blocks, floor tiles/adhesives, residual mastics, sheet flooring, duct insulation, insulation adhesives, carpet adhesive, base cove adhesive, drywall, taping compound, duct seam sealants, raised flooring panels, ceiling panels/tiles, cork board adhesive, ceramic tile materials, textured ceiling spray, electrical penetration putty, sink undercoating, firewall caulk, window glazing, and various caulks/sealants. LEGEND identified two additional asbestos materials that were not included in IHSC's 2016 report (ceiling insulation adhesive and ductwork insulation). The following is a summary of the asbestos materials known to be in the building that will be required to be removed prior to demolition (note that most quantities are taken from IHSC's report):

4.1.1 Thermal System Insulations

Various pipe insulations in the building are asbestos containing including some straight run insulation and some pipe fitting (elbows, tees, valve, etc.) insulations on either asbestos straight runs or fiberglass straight runs. The following are the estimated quantities of asbestos pipe insulations on each floor (note that this does not include insulations concealed in pipe chases or inaccessible ceiling plenums):

FLOOR	ESTIMATED QUANTIES
Lower level	890 feet and 70 fittings
Ground floor	320 feet and 250 fittings
First floor	50 feet and 12 fittings
Second floor	40 feet
Third floor	8 feet and 2 fittings
Fourth floor	165 feet and 155 fittings
Fifth floor	252 feet and 12 fittings
Penthouses	159 feet and 33 fittings

There is approximately 500 square feet of asbestos ductwork insulation that is present in the central penthouse.

4.1.2 Flooring Materials

There is approximately 250 square feet of asbestos floor tile mastic (tiles are non-asbestos) on the lower level in Room B19.

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4.1.3 Miscellaneous Materials (Non-friable)

There is approximately 12,000 square feet of asbestos adhesive used on fiberglass insulation panels in air shaft B19C located on the lower level of the building. The insulation with the adhesive extends up the walls in the south shafts to the base of the second floor.

There is approximately 60 square feet of asbestos wall adhesive located on the lower level in Room B6.

There is approximately 240 square feet of asbestos ceiling panel adhesive located on the lower level in Room B27. It is believed that this same adhesive is present on the ceiling of air shaft B19C and possibly B19D (no access could be gained to this room) and will need to be verified as a part of the abatement design.

Select ducts on all floors of the building have fiberglass insulation with an asbestos black tar sporadically applied to the insulation. It is estimated that there is approximately 2,000 square feet of the tar.

Asbestos containing window sealant (glazing) is present on the fifth floor, southeast corner of the building on exterior window panels. There are four window openings with the asbestos sealant.

There is black wall sealant in select rooms on the first floor, third floor, and fifth floor that is asbestos containing. It is estimated that there is approximately 153 linear feet of the sealant.

Asbestos containing ductwork sealant (red) is present throughout the building on select ducts. It is estimated that there is approximately 2,268 linear feet of the sealant present in the building.

Pipe flange gaskets have been known to be asbestos containing from past experience. LEGEND was not able to test any gaskets as they were not able to find any exposed gaskets between flanges. The majority of the flanges are present on pipes in mechanical rooms. These gaskets will have to be assumed to contain asbestos until they can be disassembled and tested.

Refer to Table #1 in Appendix A for LEGEND's asbestos sampling results and the diagrams in Appendix C for sampling locations.

4.2 Regulated Materials

Refer to Table No. 2 located in Appendix B for a summary and approximate quantities of the regulated materials that were attached to the building that must be removed prior to demolition.

5.0 COST ESTIMATES

The following are cost estimates to remove the known asbestos and regulated materials within the building. These estimates are based on the assumption that the building will be vacant and water services to domestic and heating pipes will be terminated (allowing for wrap and cut techniques of the pipes).

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ITEM	COST ESTIMATE
Abatement Design and Project Management	$25,000
Asbestos Abatement	$470,000
Regulated Material Removal	$90,000
Asbestos Air Monitoring/Oversight	$65,000
TOTAL ESTIMATED COSTS	**$650,000**

The estimate provided assumes that approximately 12 weeks would be required for removal of the known asbestos and regulated materials.

6.0 REMARKS

The asbestos samples will be retained for thirty days past the date of this report. Quantities given are strictly estimates and should not be used for bidding purposes.

Cordially,

LEGEND TECHNICAL SERVICES, INC.

Keith Giorgi
Asbestos Inspector AI2213

Todd Giorgi
Microscopist
Asbestos Inspector AI2269

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

APPENDIX A

TABLE #1 – ASBESTOS SAMPLE RESULTS

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #1
ASBESTOS SAMPLE RESULTS

CENTENNIAL OFFICE BUILDING
ST. PAUL, MN

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-1	2403205-1	Lower Level B24E	Wall Insulation Adhesive Black, Cementitious Homogeneous	None Detected	3% Cellulose 97% Nonfibrous
A-2	2403205-2	Lower Level B24D	Concrete Block Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-3	2403205-3	Lower Level B24D	Concrete Block Mortar Gray, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous
A-4	2403205-4	Lower Level B27	Ceiling Insulation Adhesive Black, Cementitious Homogeneous	**10% Chrysotile**	3% Cellulose 87% Nonfibrous
A-5	2403205-5	Lower Level B25	Beam Plaster Gray, Cementitious Homogeneous	None Detected	2% Cellulose 93% Nonfibrous 5% Mica
A-6	2403205-6	Lower Level B19	Duct Seam Sealant Tan, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-7	2403205-7	Lower Level B19	Duct Seam Sealant Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous

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LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-8	2403205-8	Lower Level B19 - Plenum	Fiberglass Insulation Adhesive Black, Cementitious Homogeneous	None Detected	2% Cellulose 95% Nonfibrous 3% Glass Fibers
A-9	2403205-9	Lower Level B13	Plaster (topcoat) White, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-10	2403205-10	Lower Level B13	Plaster (basecoat) Gray, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous
A-11	2403205-11	Lower Level B18 Entry	12”x12” Floor Tile White, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-12	2403205-12	Lower Level B18 Entry	Floor Tile Adhesive Yellow, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Synthetic Fibers
A-13	2403205-13	Lower Level B18	Raised Floor Panel White/Brown, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-14	2403205-14	Lower Level B18	2’x2’ Ceiling Panel (textured) White, Fibrous Homogeneous	None Detected	5% Cellulose 95% Nonfibrous
A-15	2403205-15	Lower Level Restroom	Ceramic Floor Tile Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-16	2403205-16	Lower Level Restroom	Ceramic Floor Tile Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-17	2403205-17	Lower Level Restroom	Ceramic Wall Tile Thin Set White, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-18	2403205-18	Lower Level B12A	Corkboard Adhesive Brown, Cementitious Homogeneous	None Detected	2% Cellulose 98% Nonfibrous
A-19	2403205-19	Lower Level B12A	Base Cove Adhesive Brown, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous
A-20	2403205-20	Lower Level B12	Drywall White, Cementitious Homogeneous	None Detected	5% Cellulose 93% Nonfibrous 2% Glass Fibers
A-21	2403205-21	Lower Level B12	Taping Compound White, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-22	2403205-22	Ground Floor Hall out G14B	Ceiling Texture White, Cementitious Homogeneous	None Detected	98% Nonfibrous 2% Glass Fibers
A-23	2403205-23	Ground Floor Scooter Storage	Ceiling Texture White, Cementitious Homogeneous	None Detected	2% Cellulose 96% Nonfibrous 2% Glass Fibers
A-24	2403205-24	Ground Floor Scooter Storage	Ceiling Texture White, Cementitious Homogeneous	None Detected	97% Nonfibrous 3% Glass Fibers
A-25	2403205-25	Ground Floor G32	Plaster Gray, Cementitious Homogeneous	None Detected	80% Nonfibrous 20% Mica

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LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-26	2403205-26	Ground Floor G32	Plaster Overspray Gray, Cementitious Homogeneous	None Detected	85% Nonfibrous 15% Mica
A-27	2403205-27	Ground Floor G14B	Carpet Adhesive Tan, Cementitious Homogeneous	None Detected	98% Nonfibrous 2% Synthetic Fibers
A-28	2403205-28	Ground Floor G59A (wall)	Plaster (topcoat) White, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-29	2403205-29	Ground Floor G59A (wall)	Plaster (basecoat) Gray, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous
A-30	2403205-30	Ground Floor G59A	Residual Floor Tile Mastic Black, Cementitious Homogeneous	None Detected	2% Cellulose 96% Nonfibrous 2% Synthetic Fibers
A-31	2403205-31	Ground Floor Hall out G57	Residual Floor Tile Mastic Black, Cementitious Homogeneous	None Detected	97% Nonfibrous 3% Synthetic Fibers
A-32	2403205-32	Ground Floor G84 Mech Rm Ceiling	Plaster (topcoat) White, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-33	2403205-33	Ground Floor G84 Mech Rm Ceiling	Plaster (basecoat) Gray, Cementitious Homogeneous	None Detected	2% Cellulose 83% Nonfibrous 15% Mica
A-34	2403205-34	Ground Floor G84 Air Shaft	Foam Wall Panel Adhesive Black, Cementitious Homogeneous	None Detected	3% Cellulose 96% Nonfibrous <1% Synthetic Fibers

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-35	2403205-35	Ground Floor G84 Air Shaft	Electrical Penetration Putty Gray, Cementitious Homogeneous	None Detected	5% Cellulose 93% Nonfibrous 2% Glass Fibers
A-36	2403205-36	Ground Floor G53C	12”x12” Floor Tile Gray, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-37	2403205-37	Ground Floor G53C	Floor Tile Adhesive Yellow, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-38	2403205-38	Ground Floor G21 Cafeteria	Ceramic Wall Tile White, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-39	2403205-39	Ground Floor G21 Cafeteria	Ceramic Wall Tile Grout White, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-40	2403205-40	Ground Floor G21 Cafeteria	Ceramic Wall Tile Adhesive Cream, Cementitious Homogeneous	None Detected	2% Cellulose 98% Nonfibrous
A-41	2403205-41	Ground Floor Pipe Chase	Clay Block Orange, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-42	2403205-42	Ground Floor Pipe Chase	Clay Block Mortar Gray, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous
A-43	2403205-43	Ground Floor G52A	9”x9” Floor Tile Brown, Cementitious Homogeneous	None Detected	3% Cellulose 97% Nonfibrous

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-44	2403205-44	Ground Floor G52A	Floor Tile Adhesive Gray, Cementitious Homogeneous	None Detected	2% Cellulose 98% Nonfibrous
A-45	2403205-45	Ground Floor Freight Elev. Lobby	12”x12” Floor Tile Green, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-46	2403205-46	Ground Floor Freight Elev. Lobby	Floor Tile Adhesive Yellow, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-47	2403205-47	Ground Floor G47	Sink Undercoating Gray, Cementitious Homogeneous	None Detected	10% Cellulose 90% Nonfibrous
A-48	2403205-48	First Floor Sout Central Hall	Duct Seam Sealant Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-49	2403205-49	First Floor 176	Firewall Caulk Tan, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous
A-50	2403205-50	First Floor 176	Taping Compound White, Cementitious Homogeneous	None Detected	<1% Cellulose 98% Nonfibrous <1% Glass Fibers
A-51	2403205-51	First Floor 182J	Window Glazing Black, Cementitious Homogeneous	None Detected	2% Cellulose 96% Nonfibrous 2% Synthetic Fibers
A-52	2403205-52	First Floor 180B	Ceiling Plaster Gray, Cementitious Homogeneous	None Detected	90% Nonfibrous 10% Mica

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-53	2403205-53	First Floor 162A	Exterior Window Caulk Gray, Cementitious Homogeneous	None Detected	98% Nonfibrous 2% Glass Fibers
A-54	2403205-54	First Floor Hall out 165	Firewall Caulk Tan, Cementitious Homogeneous	None Detected	3% Cellulose 97% Nonfibrous
A-55	2403205-55	First Floor 137	Sink Undercoating Gray, Cementitious Homogeneous	None Detected	10% Cellulose 90% Nonfibrous
A-56	2403205-56	First Floor 137	Clay Block Orange, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-57	2403205-57	First Floor 137	Clay Block Mortar Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-58	2403205-58	First Floor Hall 124	Carpet Adhesive Brown, Cementitious Homogeneous	None Detected	<1% Cellulose 98% Nonfibrous <1% Synthetic Fibers
A-59	2403205-59	First Floor Men’s Restroom	Old Ceramic Wall Tile White, Cementitious Homogeneous	None Detected	98% Nonfibrous 2% Glass Fibers
A-60	2403205-60	First Floor Men’s Restroom	Ceramic Wall Tile Thin Set White, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-61	2403205-61	First Floor Men’s Restroom	Ceramic Wall Tile Grout White, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-62	2403205-62	Second Floor 228	2'x2' Ceiling Panel Gray, Fibrous Homogeneous	None Detected	40% Cellulose 20% Nonfibrous 40% Glass Fibers
A-63	2403205-63	Third Floor 322A	1'x1' Wall/Ceiling Tile Tan, Cementitious Homogeneous	None Detected	100% Cellulose
A-64	2403205-64	Third Floor 322A	Ceiling Tile Adhesive Brown, Cementitious Homogeneous	None Detected	2% Cellulose 98% Nonfibrous
A-65	2403205-65	Fourth Floor Kitchen	12"x12" Floor Tile Green, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-66	2403205-66	Fourth Floor Kitchen	Floor Tile Adhesive Tan, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-67	2403205-67	Fifth Floor Hall out Bathrooms	2'x2' Ceiling Panel (smooth) White, Fibrous Homogeneous	None Detected	3% Cellulose 2% Nonfibrous 95% Glass Fibers
A-68	2403205-68	Fifth Floor 549Z	Sheet Flooring (top) Blue, Cementitious Homogeneous	None Detected	2% Cellulose 98% Nonfibrous
A-69	2403205-69	Fifth Floor 549Z	Sheet Flooring (backing) Tan, Fibrous Homogeneous	None Detected	10% Nonfibrous 90% Synthetic Fibers
A-70	2403205-70	Fifth Floor 549Z	Sheet Flooring Adhesive Tan, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-71	2403205-71	Center Penthouse Mech. Room	Ductwork Insulation Gray, Fibrous Homogeneous	**80% Chrysotile**	10% Cellulose 10% Nonfibrous
A-72	2403205-72	Exterior West Side Sidewalk Pads	Caulk at Base of Building Black/Gray, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-73	2403205-73	Exterior West Side	Granite Wall Panel Caulk Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-74	2403205-74	Exterior West Side	Granite Wall Panel Caulk Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-75	2403205-75	Exterior West Side Sidewalk Pads	Base of Building Caulk Gray, Cementitious Homogeneous	None Detected	2% Cellulose 98% Nonfibrous
A-76	2403205-76	Exterior West Side Columns	Granite Column Caulk Black, Cementitious Homogeneous	None Detected	2% Cellulose 98% Nonfibrous
A-77	2403205-77	Exterior West Side Columns	Granite Column Caulk Black, Cementitious Homogeneous	None Detected	2% Cellulose 97% Nonfibrous <1% Glass Fibers
A-78	2403205-78	Exterior West Side	Concrete Pads Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-79	2403205-79	Exterior West Side	Concrete Pads Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-80	2403205-80	Exterior West Side	Concrete Pad Caulk Gray, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous
A-81	2403205-81	Exterior West Side	Concrete Pad Caulk Gray, Cementitious Homogeneous	None Detected	<1% Cellulose 99% Nonfibrous
A-82	2403205-82	Exterior West Side At Ground Level	Rubber/Tar on Foundation Black, Cementitious Homogeneous	None Detected	2% Cellulose 96% Nonfibrous 2% Synthetic Fibers
A-83	2403205-83	Exterior West Side At Ground Level	Rubber/Tar on Foundation Black, Cementitious Homogeneous	None Detected	<1% Cellulose 96% Nonfibrous 3% Synthetic Fibers
A-84	2403205-84	Exterior North End	Granite Wall Block Mortar Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-85	2403205-85	Exterior North End	Granite Cap Caulk Gray, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-86	2403205-86	Exterior North End	Window Caulk Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-87	2403205-87	Exterior North End	Granite Panel Caulk Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-88	2403205-88	Exterior North End	Granite Cap Caulk Gray, Cementitious Homogeneous	None Detected	2% Cellulose 98% Nonfibrous

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #1 (continued)
ASBESTOS SAMPLE RESULTS

Sample No.	Laboratory No.	Sample Location	Sample Description	Asbestos Content	Balance of Material
A-89	2403205-89	Exterior North End	Granite Wall Block Mortar Gray, Cementitious Homogeneous	None Detected	99% Nonfibrous <1% Glass Fibers
A-90	2403205-90	Exterior South End out Generator	Louver Caulk Gray, Cementitious Homogeneous	None Detected	2% Cellulose 97% Nonfibrous <1% Synthetic Fibers
A-91	2403205-91	Exterior South End out Generator	Louver Caulk Gray, Cementitious Homogeneous	None Detected	<1% Cellulose 98% Nonfibrous <1% Synthetic Fibers
A-92	2403205-92	Second Floor Hall out South Restrooms	Sheet Flooring Green/Gray, Cementitious Homogeneous	None Detected	100% Nonfibrous
A-93	2403205-93	Exterior North End	Sheet Flooring Adhesive Tan, Cementitious Homogeneous	None Detected	<1% Cellulose 98% Nonfibrous <1% Synthetic Fibers

< = less than the number shown

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Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

APPENDIX B

TABLE #2 – REGULATED MATERIALS SUMMARY

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

LEGEND TECHNICAL SERVICES, INC.
TABLE #2
REGULATED MATERIAL SUMMARY

CENTENNIAL OFFICE BUILDING
ST. PAUL, MN

ITEM	APPROXIMATE QUANTITY
4' Fluorescent light bulbs	360
U-tube fluorescent light bulbs	6,300
CFL light bulbs	676
HID light bulbs	3
Potential PCB light fixture ballasts	3,330
Potential PCB transformers	26
2' LED light bulbs	32
4' LED light bulbs	1,250
LED light bulbs (screw in)	295
Fire strobes (electronics)	520
Exit signs	124
Emergency lights	8
Cameras	50
Miscellaneous electronics/panels	224
Electronic keyless entry pads	66
Satellite dish	2
Motion sensors	124
Smoke detectors	90
Garage door openers	4
Door closers (oil filled)	200
Generator	1
Hydraulic lifts	2
Drinking fountains	24
Kitchen fire suppression systems	2
Air conditioning units	12
Walk-in coolers	4
NiCd batteries	60
Elevators	5[1]
Lead sheathing (3rd floor above ceilings)	Unknown[2]

[1] - Must be decommissioned by a licensed elevator company
[2] - Demolition landfill may not accept – can be recycled

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APPENDIX C

DIAGRAMS

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

DIAGRAM #1
ASBESTOS SAMPLING LOCATIONS

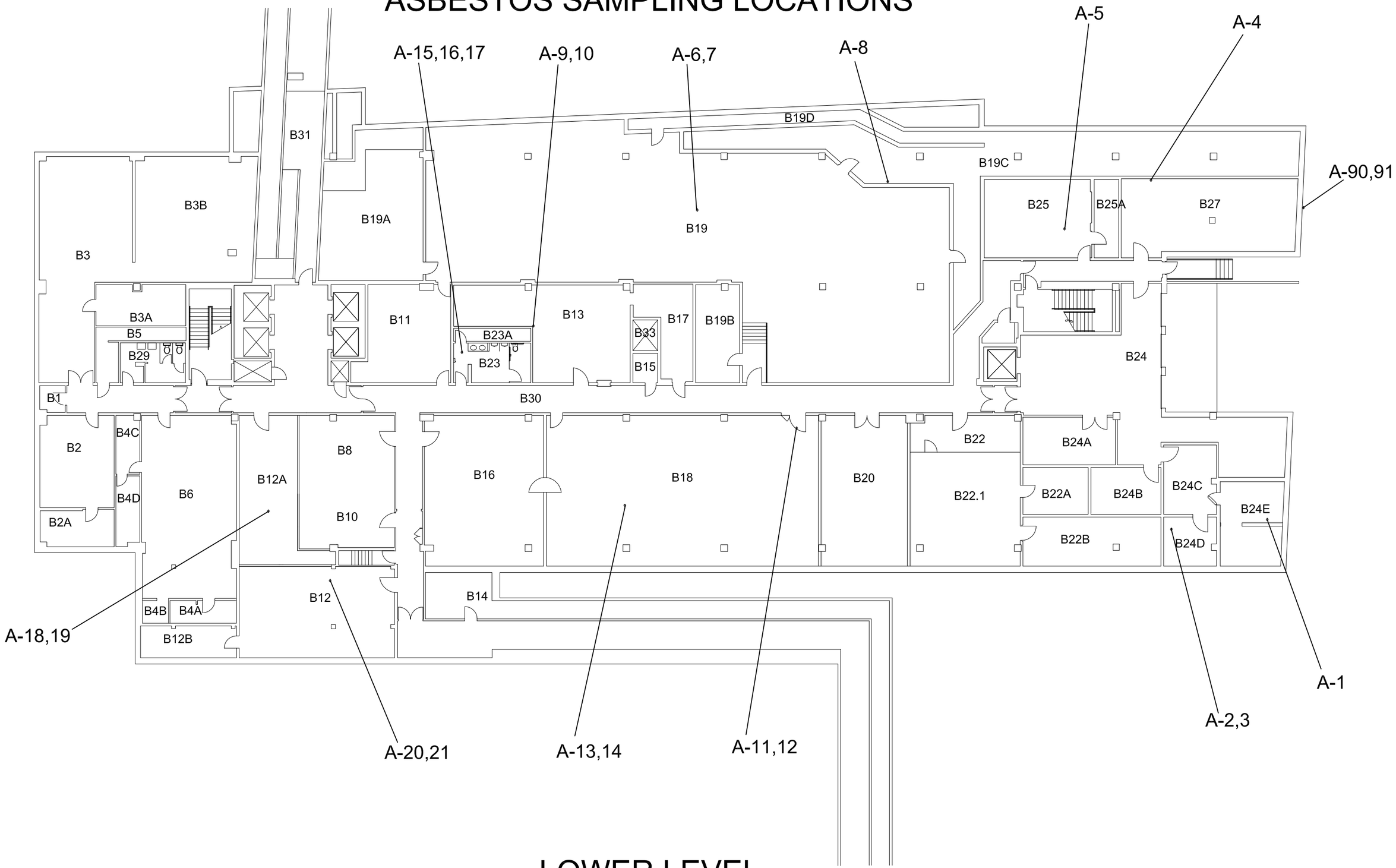

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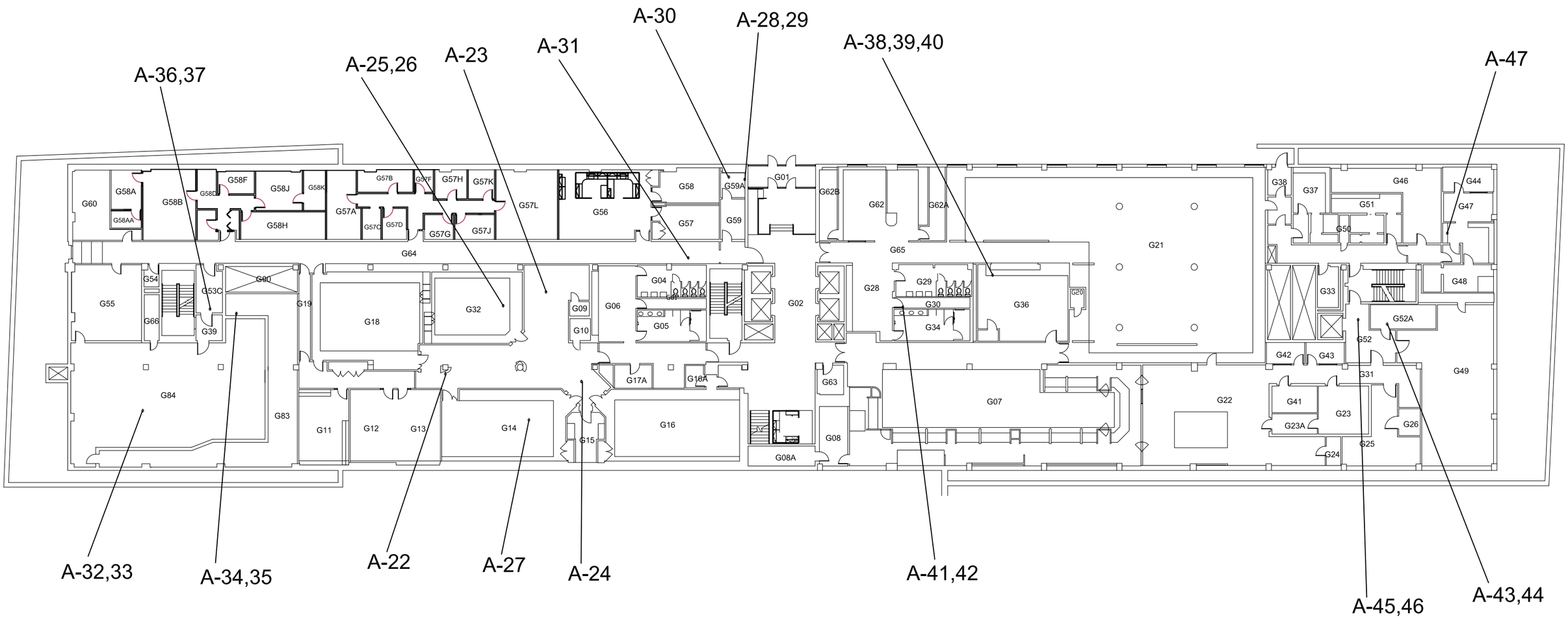
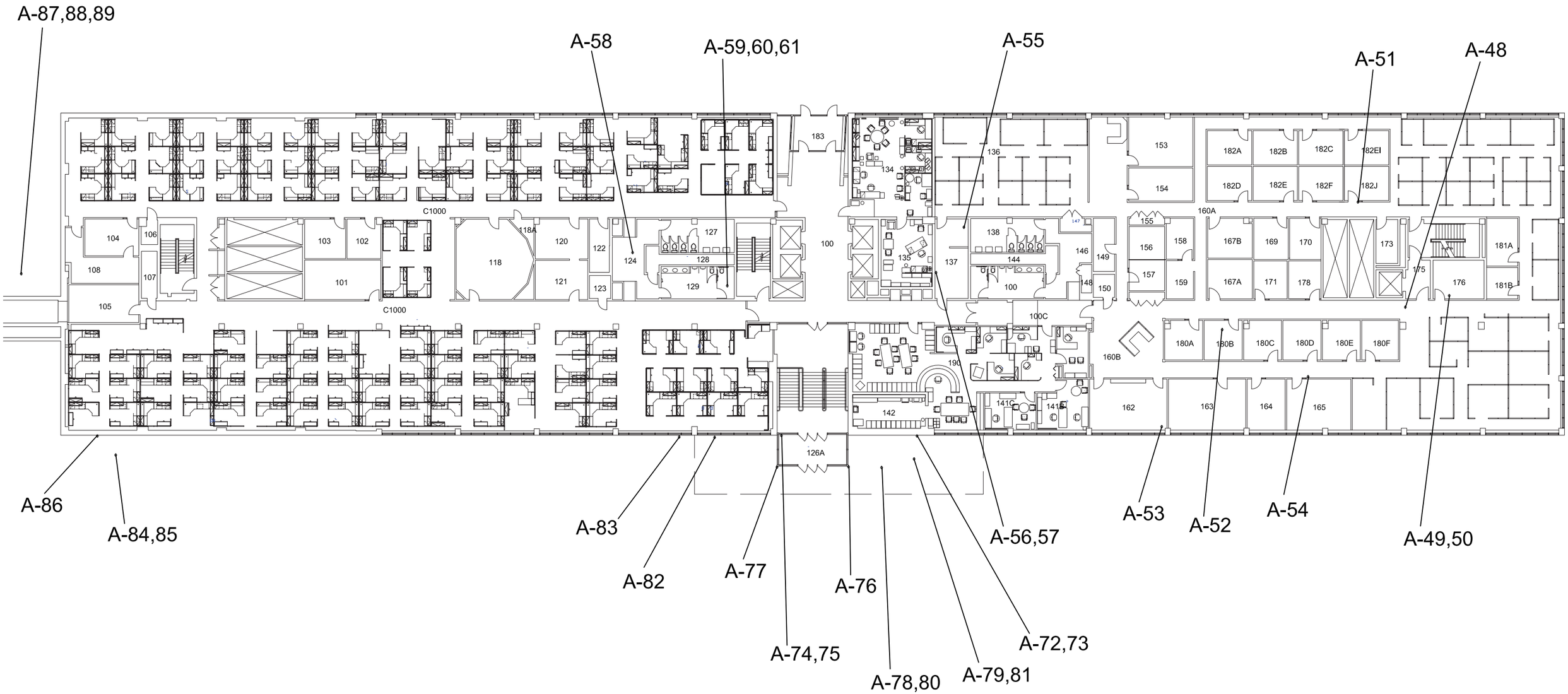
DIAGRAM #2
ASBESTOS SAMPLING LOCATIONS



GROUND FLOOR

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

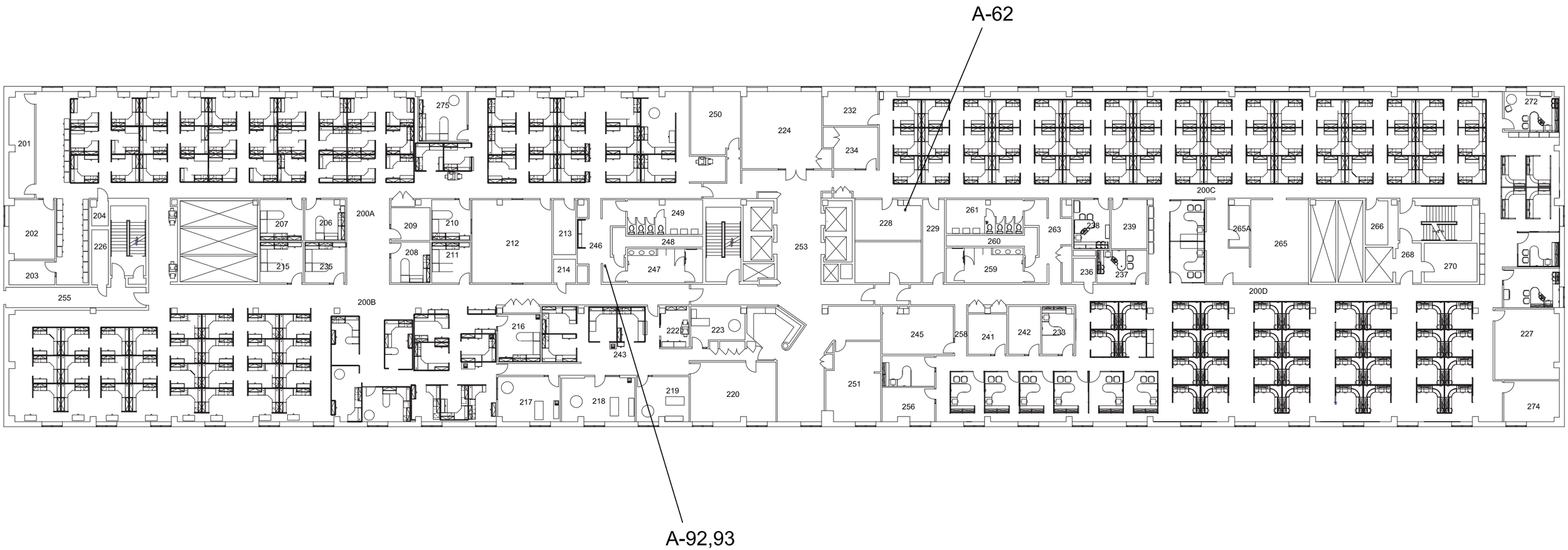
DIAGRAM #3
ASBESTOS SAMPLING LOCATIONS



FIRST FLOOR

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

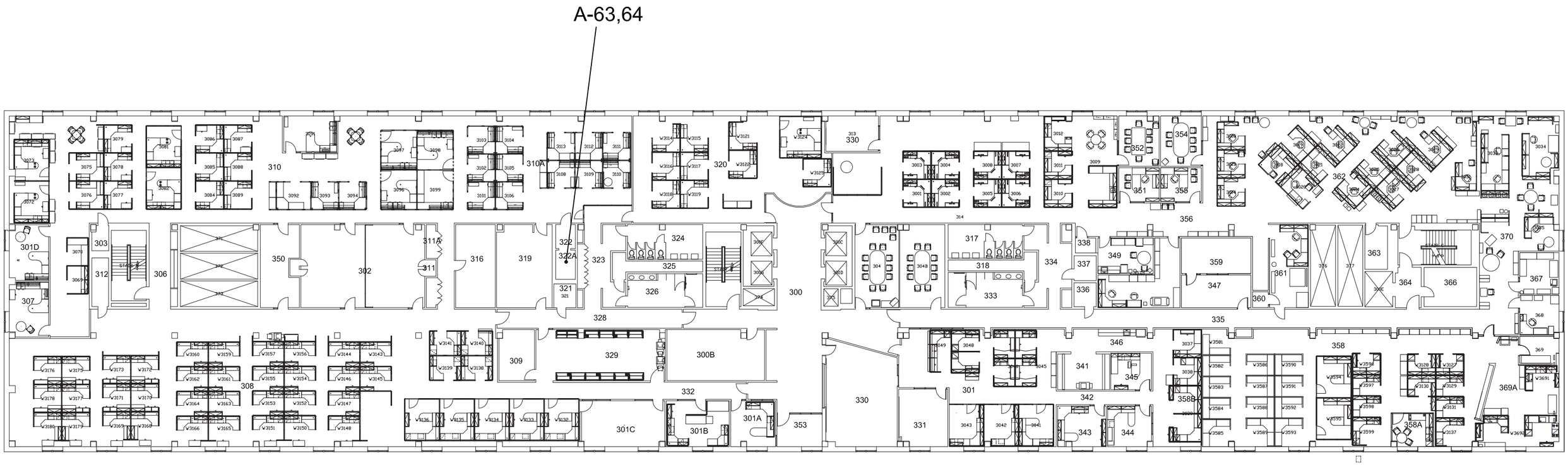
DIAGRAM #4
ASBESTOS SAMPLING LOCATIONS



SECOND FLOOR

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

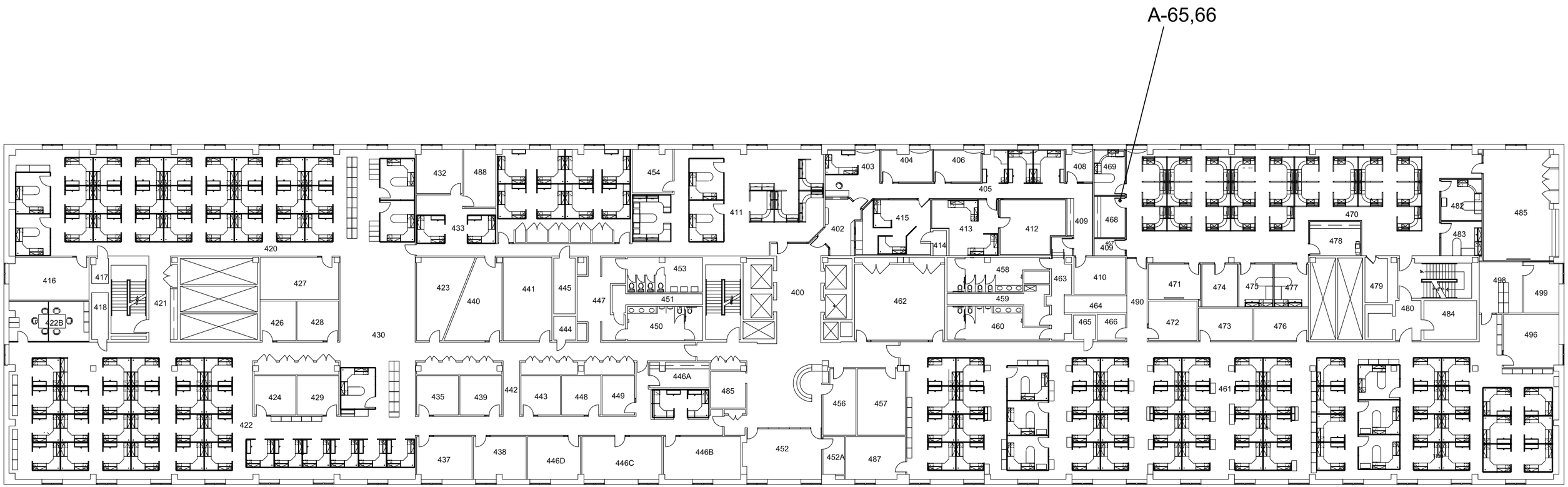
DIAGRAM #5
ASBESTOS SAMPLING LOCATIONS



THIRD FLOOR

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

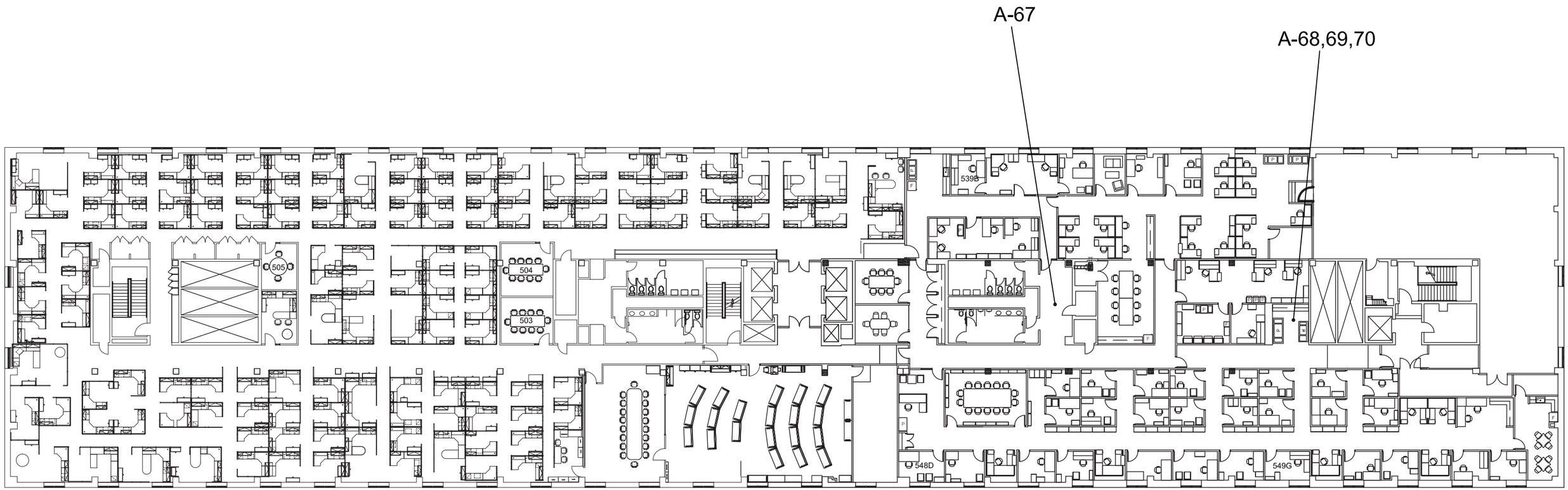
DIAGRAM #6
ASBESTOS SAMPLING LOCATIONS



FOURTH FLOOR

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

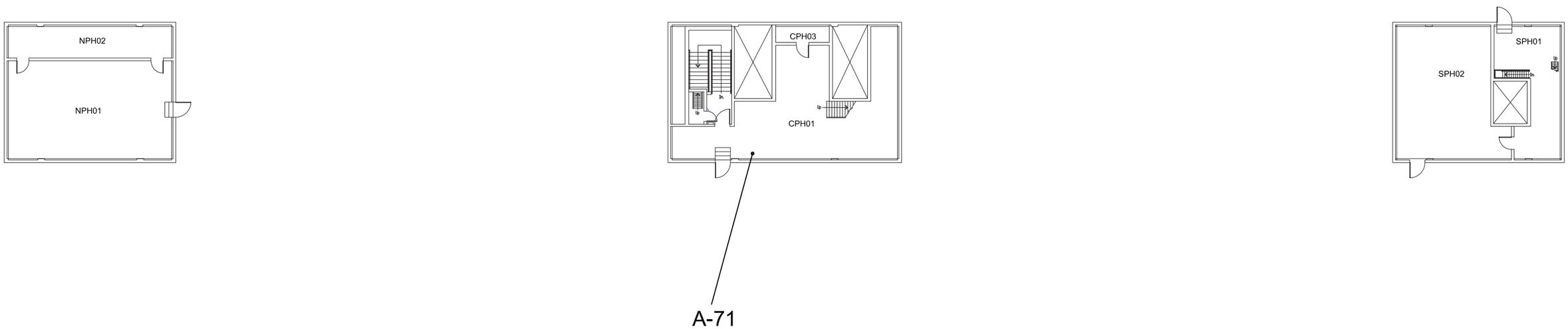
DIAGRAM #7
ASBESTOS SAMPLING LOCATIONS



FIFTH FLOOR

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

DIAGRAM #8
ASBESTOS SAMPLING LOCATIONS



PENTHOUSES

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

APPENDIX D

CERTIFICATIONS/ACCREDITATIONS

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Certificate No: 5LM08092402IR

Expiration Date: August 9, 2025

This is to certify that

Keith J. Giorgi

has attended and successfully completed an

ASBESTOS INSPECTOR

REFRESHER TRAINING COURSE

permitted by

the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722

and meets the requirements of

Section 206 of Title II of the Toxic Substances Control Act (TSCA)

conducted by

Lake States Environmental, Ltd.

in

White Bear Lake, MN on August 9, 2024

Examination Date: August 9, 2024

Lake States Environmental, Ltd.
P. O. Box 645, Rice Lake, WI 54868
www.lakestates.com
(800) 254-9811

DEPARTMENT OF HEALTH

ASBESTOS INSPECTOR

Certified by:
State of Minnesota
Department of Health

Expires: 08/09/2025

Keith J Giorgi
1495 Auburn Ct
Eagan, MN 55122

Director, Env. Health Div.

No. AI2213

Issued: 08/23/2024

Training Instructor

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Certificate No: 5LM05092404IR

Expiration Date: May 9, 2025

This is to certify that

Todd G. Giorgi

has attended and successfully completed an

ASBESTOS INSPECTOR
REFRESHER TRAINING COURSE

permitted by
the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722
and meets the requirements of
Section 206 of Title II of the Toxic Substances Control Act (TSCA)
conducted by

Lake States Environmental, Ltd.

in

Vadnais Heights, MN on May 9, 2024
Examination Date: May 9, 2024

Lake States Environmental, Ltd.
P. O. Box 645, Rice Lake, WI
www.lakestates.com
(800) 254-9811

Director, Env. Health Div.

DEPARTMENT OF HEALTH
ASBESTOS INSPECTOR
Certified by:
State of Minnesota
Department of Health
Expires: 05/09/2025
Todd G Giorgi
12990 Ibis St NW
Coon Rapids, MN 55448

No AI2269 Issued: 05/28/2024

Training Instructor

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102081-0

Legend Technical Services, Inc.

St. Paul, MN

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2024-04-01 through 2025-03-31

Effective Dates

For the National Voluntary Laboratory Accreditation Program

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Legend Technical Services, Inc.
88 Empire Drive
St. Paul, MN 55103
Ms. Cheryl Sykora
Phone: 651-221-4085 Fax: 651-642-1239
Email: csykora@legend-group.com
http://www.legend-group.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 102081-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Appendix E: Climate and Greenhouse Gas Analysis

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National Risk Index

June 27, 2025

Ramsey County, Minnesota

Summary

Risk Index is **Relatively Moderate** — Score **92.1**

Expected Annual Loss is **Relatively Moderate** — Score **91.8**

Social Vulnerability is **Relatively High** — Score **67.5**

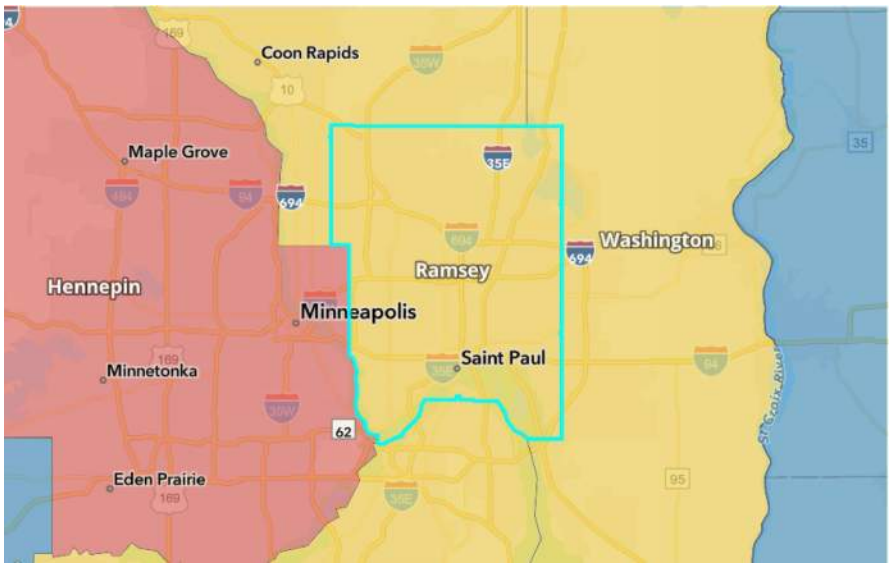
Community Resilience is **Very High** — Score **95.1**

While reviewing this report, keep in mind that low risk is driven by lower loss due to natural hazards, lower social vulnerability, and higher community resilience.

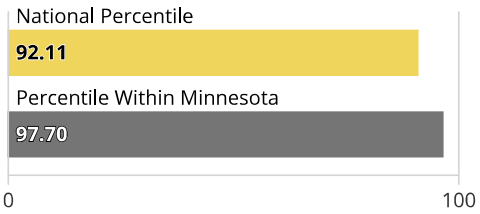
For more information about the National Risk Index, its data, and how to interpret the information it provides, please review the **About the National Risk Index** and **How to Take Action** sections at the end of this report. Or, visit the National Risk Index website at hazards.fema.gov/nri/learn-more to access supporting documentation and links.

Risk Index

The Risk Index rating is **Relatively Moderate** for **Ramsey County, MN** when compared to the rest of the U.S.



Score **92.11**



92% of U.S. counties have a lower Risk Index

98% of counties in Minnesota have a lower Risk Index

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Risk Index Legend

Very High | Relatively High | Relatively Moderate | Relatively Low | Very Low

No Rating | Not Applicable | Insufficient Data

Hazard Type Risk Index

Hazard type Risk Index scores are calculated using data for only a single hazard type, and reflect a community's Expected Annual Loss value, community risk factors, and the adjustment factor used to calculate the risk value.

Hazard Type	Risk Index Rating	Risk Index Score	National Percentile
Avalanche	Not Applicable	--	
Coastal Flooding	Not Applicable	--	
Cold Wave	Very High	99	0 100
Drought	Very Low	18.3	0 100
Earthquake	Very Low	32	0 100
Hail	Relatively Moderate	95.7	0 100
Heat Wave	Relatively High	98	0 100
Hurricane	Not Applicable	--	
Ice Storm	Relatively Low	49.2	0 100
Landslide	Relatively Moderate	94.3	0 100
Lightning	Relatively Moderate	86.5	0 100
Riverine Flooding	Relatively Low	53.1	0 100
Strong Wind	Very High	98.9	0 100
Tornado	Relatively High	99	0 100
Tsunami	Not Applicable	--	
Volcanic Activity	Not Applicable	--	
Wildfire	Relatively Low	68.1	0 100
Winter Weather	Relatively Moderate	81.7	0 100

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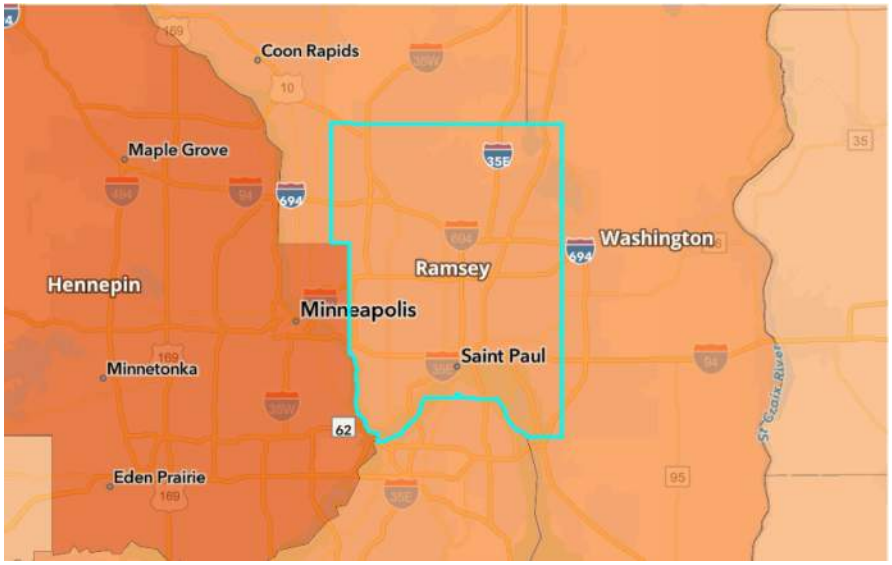
Risk Factor Breakdown

Hazard Type	EAL Value	Social Vulnerability	Community Resilience	CRF	Risk Value	Risk Index Score
Tornado	$32,106,850	Relatively High	Very High	1.15	$37,128,467	99
Strong Wind	$5,597,919	Relatively High	Very High	1.15	$6,316,359	98.9
Heat Wave	$5,273,536	Relatively High	Very High	1.15	$6,129,551	98
Cold Wave	$2,847,823	Relatively High	Very High	1.15	$3,309,408	99
Hail	$2,243,197	Relatively High	Very High	1.15	$2,514,888	95.7
Riverine Flooding	$490,103	Relatively High	Very High	1.15	$544,040	53.1
Lightning	$438,331	Relatively High	Very High	1.15	$506,557	86.5
Landslide	$203,740	Relatively High	Very High	1.15	$246,568	94.3
Winter Weather	$206,038	Relatively High	Very High	1.15	$230,689	81.7
Wildfire	$171,124	Relatively High	Very High	1.15	$156,833	68.1
Ice Storm	$56,355	Relatively High	Very High	1.15	$61,668	49.2
Earthquake	$40,558	Relatively High	Very High	1.15	$44,939	32
Drought	$408	Relatively High	Very High	1.15	$407	18.3
Avalanche	--	Relatively High	Very High	1.15	--	--
Coastal Flooding	--	Relatively High	Very High	1.15	--	--
Hurricane	--	Relatively High	Very High	1.15	--	--
Tsunami	--	Relatively High	Very High	1.15	--	--
Volcanic Activity	--	Relatively High	Very High	1.15	--	--

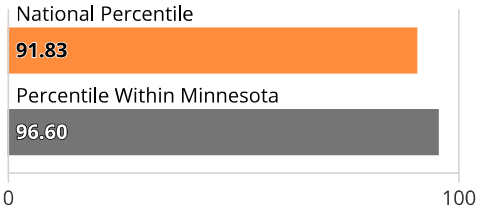
Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Expected Annual Loss

In **Ramsey County, MN**, expected loss each year due to natural hazards is **Relatively Moderate** when compared to the rest of the U.S.



Score	91.83



92% of U.S. counties have a lower Expected Annual Loss

97% of counties in Minnesota have a lower Expected Annual Loss

Expected Annual Loss Legend

Very High | Relatively High | Relatively Moderate | Relatively Low | Very Low

No Expected Annual Losses | Not Applicable | Insufficient Data

Composite Expected Annual Loss	**$49,675,982.54**
Composite Expected Annual Loss Rate National Percentile	**19.4**

Building EAL	**$20,596,687.33**	Population EAL	**2.51** fatalities
Building EAL Rate	**$1 per $4.86K of building value**	Population EAL Rate	**1 per 220.36K people**
Agriculture EAL	**$8,266.49**	Population Equivalence EAL	**$29,071,028.72**
Agriculture EAL Rate	**$1 per $409.49 of agriculture value**		

Expected Annual Loss for Hazard Types

Expected Annual Loss scores for hazard types are calculated using data for only a single hazard type, and reflect a community's relative expected annual loss for only that hazard type.

13 of 18 hazard types contribute to the expected annual loss for **Ramsey County, MN**.

Hazard Type	Expected Annual Loss Rating	EAL Value	Score
Tornado	Relatively High	$32,106,850	98.9
Strong Wind	Very High	$5,597,919	98.7

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Hazard Type	Expected Annual Loss Rating	EAL Value	Score
Heat Wave	Relatively High	$5,273,536	98.1
Cold Wave	Very High	$2,847,823	98.7
Hail	Relatively High	$2,243,197	95.8
Riverine Flooding	Relatively Low	$490,103	54.5
Lightning	Relatively Moderate	$438,331	86.3
Winter Weather	Relatively High	$206,038	82.6
Landslide	Relatively Moderate	$203,740	93.8
Wildfire	Relatively Low	$171,124	70.5
Ice Storm	Relatively Low	$56,355	50.3
Earthquake	Very Low	$40,558	32.0
Drought	Very Low	$408	20.5
Avalanche	Not Applicable		
Coastal Flooding	Not Applicable		
Hurricane	Not Applicable		
Tsunami	Not Applicable		
Volcanic Activity	Not Applicable		

Expected Annual Loss Values

Hazard Type	Total	Building Value	Population Equivalence	Population	Agriculture Value
Avalanche	—	—	—	—	—
Coastal Flooding	—	—	—	—	—
Cold Wave	$2,847,823	$9,404	$2,836,530	0.24	$1,890
Drought	$408	n/a	n/a	n/a	$408
Earthquake	$40,558	$31,195	$9,363	0.00	n/a
Hail	$2,243,197	$2,170,695	$69,480	0.01	$3,022
Heat Wave	$5,273,536	$318	$5,272,755	0.45	$463
Hurricane	—	—	—	—	—
Ice Storm	$56,355	$54,710	$1,646	0.00	n/a
Landslide	$203,740	$174,080	$29,660	0.00	n/a
Lightning	$438,331	$38,996	$399,335	0.03	n/a
Riverine Flooding	$490,103	$208,119	$281,012	0.02	$972

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Hazard Type	Total	Building Value	Population Equivalence	Population	Agriculture Value
Strong Wind	$5,597,919	$4,809,109	$787,411	0.07	$1,399
Tornado	$32,106,850	$12,779,239	$19,327,523	1.67	$89
Tsunami	--	--	--	--	--
Volcanic Activity	--	--	--	--	--
Wildfire	$171,124	$124,590	$46,532	0.00	$2
Winter Weather	$206,038	$196,234	$9,782	0.00	$22

Exposure Values

Hazard Type	Total	Building Value	Population Equivalence	Population	Agriculture Value
Avalanche	--	--	--	--	--
Coastal Flooding	--	--	--	--	--
Cold Wave	$6,506,171,643,277	$100,114,658,255	$6,406,053,600,000	552,246.00	$3,385,022
Drought	$2,206,334	n/a	n/a	n/a	$2,206,334
Earthquake	$6,507,396,344,000	$100,113,144,000	$6,407,283,200,000	552,352.00	n/a
Hail	$6,506,171,643,277	$100,114,658,255	$6,406,053,600,000	552,246.00	$3,385,022
Heat Wave	$6,506,171,643,277	$100,114,658,255	$6,406,053,600,000	552,246.00	$3,385,022
Hurricane	--	--	--	--	--
Ice Storm	$6,502,238,977,749	$100,060,952,536	$6,402,178,025,212	551,911.90	n/a
Landslide	$1,424,182,259,316	$23,156,968,077	$1,401,025,291,239	120,778.04	n/a
Lightning	$6,506,168,258,255	$100,114,658,255	$6,406,053,600,000	552,246.00	n/a
Riverine Flooding	$36,787,601,899	$901,579,790	$35,885,899,899	3,093.61	$122,210
Strong Wind	$6,506,171,643,277	$100,114,658,255	$6,406,053,600,000	552,246.00	$3,385,022
Tornado	$6,506,171,643,277	$100,114,658,255	$6,406,053,600,000	552,246.00	$3,385,022
Tsunami	--	--	--	--	--
Volcanic Activity	--	--	--	--	--
Wildfire	$296,375,947,742	$4,544,580,249	$291,830,849,446	25,157.83	$518,047
Winter Weather	$6,506,171,643,277	$100,114,658,255	$6,406,053,600,000	552,246.00	$3,385,022

Annualized Frequency Values

Hazard Type	Annualized Frequency	Events on Record	Period of Record
Avalanche	--	--	--

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Hazard Type	Annualized Frequency	Events on Record	Period of Record
Coastal Flooding	–	–	–
Cold Wave	1.5 events per year	24	2005-2021 (16 years)
Drought	0.6 events per year	28	2000-2021 (22 years)
Earthquake	0.005% chance per year	n/a	2021 dataset
Hail	6.4 events per year	217	1986-2021 (34 years)
Heat Wave	2.5 events per year	40	2005-2021 (16 years)
Hurricane	–	–	–
Ice Storm	0.5 events per year	32	1946-2014 (67 years)
Landslide	0 events per year	5	2010-2021 (12 years)
Lightning	38 events per year	837	1991-2012 (22 years)
Riverine Flooding	0.8 events per year	19	1996-2019 (24 years)
Strong Wind	4.8 events per year	164	1986-2021 (34 years)
Tornado	0.1 events per year	9	1950-2021 (72 years)
Tsunami	–	–	–
Volcanic Activity	–	–	–
Wildfire	0.009% chance per year	n/a	2021 dataset
Winter Weather	5.6 events per year	90	2005-2021 (16 years)

Historic Loss Ratios

Hazard Type	Overall Rating
Avalanche	–
Coastal Flooding	–
Cold Wave	Very Low
Drought	Relatively Low
Earthquake	Very Low
Hail	Relatively Low
Heat Wave	Very Low
Hurricane	–
Ice Storm	Very Low
Landslide	Very Low
Lightning	Very Low

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Hazard Type	Overall Rating
Riverine Flooding	Very Low
Strong Wind	Relatively Low
Tornado	Relatively High
Tsunami	--
Volcanic Activity	--
Wildfire	Relatively Low
Winter Weather	Very Low

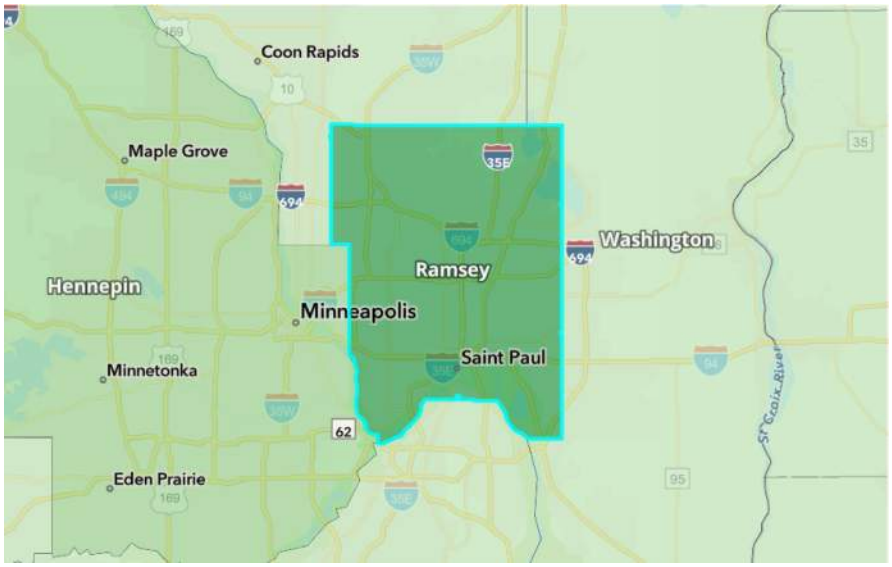
Expected Annual Loss Rate

Hazard Type	Building EAL Rate (per building value)	Population EAL Rate (per population)	Agriculture EAL Rate (per agriculture value)
Avalanche	--	--	--
Coastal Flooding	--	--	--
Cold Wave	$1 per $10.65M	1 per 2.26M	$1 per $1.79K
Drought	--	--	$1 per $8.29K
Earthquake	$1 per $3.21M	1 per 684.19M	--
Hail	$1 per $46.12K	1 per 92.20M	$1 per $1.12K
Heat Wave	$1 per $314.94M	1 per 1.21M	$1 per $7.31K
Hurricane	--	--	--
Ice Storm	$1 per $1.83M	1 per 3.89B	--
Landslide	$1 per $575.11K	1 per 215.98M	--
Lightning	$1 per $2.57M	1 per 16.04M	--
Riverine Flooding	$1 per $481.04K	1 per 22.80M	$1 per $3.48K
Strong Wind	$1 per $20.82K	1 per 8.14M	$1 per $2.42K
Tornado	$1 per $7.83K	1 per 331.45K	$1 per $38.18K
Tsunami	--	--	--
Volcanic Activity	--	--	--
Wildfire	$1 per $803.55K	1 per 137.67M	$1 per $2.19M
Winter Weather	$1 per $510.18K	1 per 654.89M	$1 per $155.03K

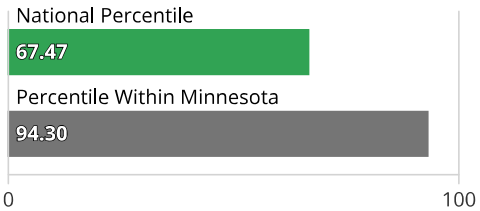
Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Social Vulnerability

Social groups in **Ramsey County, MN** have a **Relatively High** susceptibility to the adverse impacts of natural hazards when compared to the rest of the U.S.



Score	67.47



67% of U.S. counties have a lower Social Vulnerability

94% of counties in Minnesota have a lower Social Vulnerability

Social Vulnerability Legend

Very High | Relatively High | Relatively Moderate | Relatively Low | Very Low

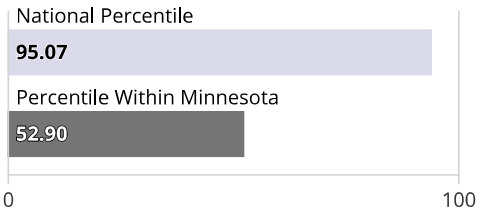
Data Unavailable

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Community Resilience

Communities in **Ramsey County, MN** have a **Very High** ability to prepare for anticipated natural hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions when compared to the rest of the U.S.

Score	95.07



5% of U.S. counties have a higher Community Resilience

47% of counties in Minnesota have a higher Community Resilience

Community Resilience Legend

Very High | Relatively High | Relatively Moderate | Relatively Low | Very Low

Data Unavailable

About the National Risk Index

The National Risk Index is a dataset and online tool to help illustrate the United States communities most at risk for 18 natural hazards: Avalanche, Coastal Flooding, Cold Wave, Drought, Earthquake, Hail, Heat Wave, Hurricane, Ice Storm, Landslide, Lightning, Riverine Flooding, Strong Wind, Tornado, Tsunami, Volcanic Activity, Wildfire, and Winter Weather.

The National Risk Index leverages available source data for Expected Annual Loss due to these 18 hazard types, Social Vulnerability, and Community Resilience to develop a baseline relative risk measurement for each United States county and Census tract. These measurements are calculated using average past conditions, but they cannot be used to predict future outcomes for a community. The National Risk Index is intended to fill gaps in available data and analyses to better inform federal, state, local, tribal, and territorial decision makers as they develop risk reduction strategies.

Explore the National Risk Index Map at **hazards.fema.gov/nri/map**.

Visit the National Risk Index website at **hazards.fema.gov/nri/learn-more** to access supporting documentation and links.

Calculating the Risk Index

Risk Index values are calculated using an equation* that combines values for Expected Annual Loss (EAL) due to natural hazards, with the Community Risk Factor (CRF), which is a function of Social Vulnerability and Community Resilience:

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

$$\text{Risk Index} = \text{Expected Annual Loss} \times \text{Community Risk Factor}$$

$$\text{where Community Risk Factor} = f\left(\frac{\text{Social Vulnerability}}{\text{Community Resilience}}\right)$$

*County-level risk values are derived by summing the risk values of all Census tracts within that county.

Risk is presented as a composite value and score for all 18 hazard types, as well as individual values and scores for each hazard type.

For more information, visit **hazards.fema.gov/nri/determining-risk**.

Calculating Expected Annual Loss

Expected Annual Loss values are calculated using an equation* that combines values for exposure, annualized frequency, and historic loss ratios for 18 hazard types:

$$\text{Expected Annual Loss} = \text{Exposure} \times \text{Annualized Frequency} \times \text{Historic Loss Ratio}$$

*Excluding Avalanche, Drought, Earthquake, and Tornado, EAL values for each hazard are calculated at the Census block level and summed together to determine Census tract and county-level hazard type EAL values.

Expected Annual Loss is presented as a composite value and score for all 18 hazard types, as well as individual values and scores for each hazard type.

For more information, visit **hazards.fema.gov/nri/expected-annual-loss**.

Calculating Social Vulnerability

Social Vulnerability is measured using the Social Vulnerability Index (SVI) published by the Centers for Disease Control and Prevention (CDC).

For more information, visit **hazards.fema.gov/nri/social-vulnerability**.

Calculating Community Resilience

Community Resilience is measured at the County level using the Baseline Resilience Indicators for Communities (HVRI BRIC) published by the University of South Carolina's Hazards and Vulnerability Research Institute (HVRI).

For more information, visit **hazards.fema.gov/nri/community-resilience**.

Values, Scores, and Ratings

The National Risk Index provides three different types of results for Risk and each component used to derive Risk: EAL, Social Vulnerability, and Community Resilience:

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Values. Values for Risk and EAL are in units of dollars, representing the community's average economic loss from natural hazards each year. For Social Vulnerability and Community Resilience, values are the index values for the community provided by the source data sets.

Scores. Scores represent the national percentile ranking of the community's component value compared to all other communities at the same level (county or Census tract).

Ratings. Ratings refer to the qualitative terms that describe the relative risk of an area within the same geographic level. These rating categories range from "Very Low" to "Very High". Ratings for Social Vulnerability and Community Resilience are based on quintiles of those components' scores, while Risk and EAL ratings are based on more advanced statistical calculations on values . As a result, there is no fixed range of scores or values that correspond to the rating categories.

How to Take Action

There are many ways to reduce natural hazard risk through mitigation. Communities with high National Risk Index scores can take action to reduce risk by decreasing Expected Annual Loss due to natural hazards, decreasing Social Vulnerability, and increasing Community Resilience.

For information about how to take action and reduce your risk, visit **hazards.fema.gov/nri/take-action**.

Disclaimer

The National Risk Index (the Risk Index or the Index) and its associated data are meant for planning purposes only. This tool was created for broad nationwide comparisons and is not a substitute for localized risk assessment analysis. Nationwide datasets used as inputs for the National Risk Index are, in many cases, not as accurate as available local data. Users with access to local data for each National Risk Index risk factor should consider substituting the Risk Index data with local data to recalculate a more accurate risk index. If you decide to download the National Risk Index data and substitute it with local data, you assume responsibility for the accuracy of the data and any resulting data index. Please visit the **Contact Us** page if you would like to discuss this process further.

The methodology used by the National Risk Index has been reviewed by subject matter experts in the fields of natural hazard risk research, risk analysis, mitigation planning, and emergency management. The processing methods used to create the National Risk Index have produced results similar to those from other natural hazard risk analyses conducted on a smaller scale. The breadth and combination of geographic information systems (GIS) and data processing techniques leveraged by the National Risk Index enable it to incorporate multiple hazard types and risk factors, manage its nationwide scope, and capture what might have been missed using other methods.

The National Risk Index does not consider the intricate economic and physical interdependencies that exist across geographic regions. Keep in mind that hazard impacts in surrounding counties or Census tracts can cause indirect losses in your community regardless of your community's risk profile.

Nationwide data available for some risk factors are rudimentary at this time. The risk profiles for the vast majority of hazard types are based on historical frequency and loss data. They represent risk and expected annual loss based on average past conditions, not future predictions. The National Risk Index will be continuously updated as new data become available and improved methodologies are identified.

For comprehensive details about how the Risk Index can help you and its limitations, see the **National Risk Index Technical Documentation**

Assumption of Risk

In view of the identified limitations of the National Risk Index associated data, by using the data, you acknowledge and agree that FEMA makes no representations or warranties about the accuracy, completeness, or fitness for any particular purpose of the data; that the data is provided "as is" without warranty of any kind; that you assume full responsibility for any consequences that may arise, including financial losses, legal disputes, or other adverse outcomes; and that you release FEMA and the federal government from any liability that may arise to the extent allowable by law.

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Attribution, No Endorsement

Please attribute your use of the National Risk Index and its associated data to the Federal Emergency Management Agency.

However, you acknowledge and agree that nothing herein constitutes and endorsement of you or your work by FEMA or the federal government, and you shall not imply through use of the National Risk Index or its associated data or through providing attribution, that FEMA or the federal government endorses you.

Preferred citation for the National Risk Index:

Zuzak, C., E. Goodenough, C. Stanton, M. Mowrer, A. Sheehan, B. Roberts, P. McGuire, and J. Rozelle. 2023. National Risk Index Technical Documentation. Federal Emergency Management Agency, Washington, DC.

The National Risk Index Contact Us page is available at **hazards.fema.gov/nri/contact-us**.

Docusign Envelope ID: 0291A7EB-C2CC-84BE-817F-69883006D585

Minnesota Climate Calculator: Project Summary Report

Date Prepared: 8/7/2025

The results shown below were generated using the Minnesota Climate Calculator. The emissions quantified account for the full greenhouse gas impact of a potential project throughout the construction and operational phases of the project. This includes emissions from project activities that occur on-site as well as emissions that occur upstream and downstream of the project. The results are based on user inputs and assumptions; actual project emissions may vary.

Background Information

Project Name	Centennial Office Building Demolition
Project Category (primary)	Subp. 31, Historical places
Project Category (secondary)	
Location (County)	Ramsey
Construction Start Date	5/1/2026
Operational Year	2027
Operational Lifetime (Years)	30

Electricity Provider	Grid Average
Portion of Building Electricity Consumption to be Generated On-Site via Renewables or Supplied through the Purchase of Renewable Energy Credits (RECs)	0%
Portion of Building Natural Gas Consumption to be Supplied from Renewable Sources	0%

Building Construction Project?	Yes

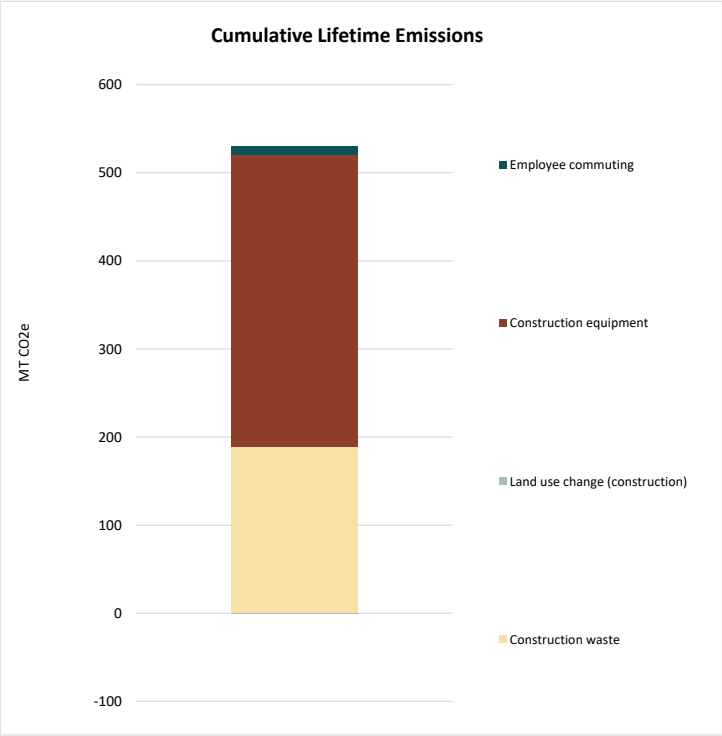
Construction Stage	Duration (Days)
Demolition	40
Site Preparation	60
Grading	30
Building Construction	-
Architectural Coatings	-
Paving and Landscaping	10

Summary Results

Project Lifetime	31
Unit	MT

Phase	CO_2e Emissions	
	Cumulative	Annualized
Construction		
Material inputs	NA	NA
Transportation of material inputs	NA	NA
Employee commuting	10.27	0.33
Construction equipment	331.46	10.69
Land use change (construction)	(0.09)	(0.00)
Construction waste	188.97	6.10
Operation		
Building energy consumption	NA	NA
Coal production	NA	NA
Natural gas and oil products	NA	NA
Industrial processes	NA	NA
HFC leakage	NA	NA
Land use change (operations)	NA	NA
On-road vehicles	NA	NA
Treatment of waste on-site	NA	NA
Treatment of wastewater on-site	NA	NA
Treatment of waste off-site	NA	NA
Enteric fermentation	NA	NA
Manure management	NA	NA
Total	**530.61**	**17.12**

Note: NA indicates that emissions were not quantified and/or are not applicable.



User Inputs

Note: NA indicates that emissions were not quantified and/or activity is not applicable.

Material Inputs

Material Type	Quantity	Unit	Geographical Sourcing
Aluminum	NA	Tons	Unknown
Asphalt	NA	Tons	Domestic
Brick	NA	Tons	Unknown
Concrete	NA	Tons	Domestic
Glass	NA	Tons	Unknown
Insulation (residential)	NA	Tons	Unknown
Insulation (commercial)	NA	Tons	Unknown
Steel	NA	Tons	Unknown
Wood Products	NA	Tons	Unknown

Employee Commuting

Construction Stage	Daily Average Number of Employees Commuting
Demolition	8
Site Preparation	10
Grading	6
Building Construction	0
Architectural Coatings	0
Paving and Landscaping	5

Transportation Mode	Percent of Employees
Single Occupancy Vehicle	82%
Carpool	11%
Motorcycle	0%
Bus	2%
Transit Rail	2%
Bike/Walk	3%

Average One-Way Commute Length (miles)	13.2

Construction Equipment

Equipment Type	Fuel Type	Number of Hours per Day by Construction Stage					
		Demolition	Site Preparation	Grading	Building Construction	Architectural Coatings	Paving and Landscaping
Air Compressors	Diesel	0	0	0	0	6	0
Cement and Mortar Mixers	Diesel	0	0	0	0	0	12
Concrete/Industrial Saws	Diesel	8	0	0	0	0	0
Cranes	Diesel	0	0	0	7	0	0
Excavators	Diesel	24	0	8	0	0	0
Forklifts	Diesel	0	0	0	24	0	0
Generator Sets	Diesel	0	0	0	8	0	0
Graders	Diesel	0	0	8	0	0	0
Pavers	Diesel	0	0	0	0	0	8
Paving Equipment	Diesel	0	0	0	0	0	12
Rollers	Diesel	0	0	0	0	0	12
Rubber Tired Dozers	Diesel	16	24	8	0	0	0
Scrapers	Diesel	0	0	0	0	0	0
Tractors/Loaders/Backhoes	Diesel	0	32	24	21	0	8
Welders	Diesel	0	0	0	8	0	0

Land Use Change

Land Use Type	Acres		
	Pre-Construction	Post-Construction	Post-Operation
Wetlands, forested	0.00	0.00	NA
Wetlands, not forested	0.00	0.00	NA
Forest	0.00	0.00	NA
Rivers and streams	0.00	0.00	NA
Brush and grassland	0.00	0.00	NA
Cropland	0.00	0.00	NA
Livestock rangeland/pastureland	0.00	0.00	NA
Lawn/landscaping	0.00	1.30	NA
Green Infrastructure: Constructed wetlands, paved	0.00	0.00	NA
Green Infrastructure: Constructed wetlands, vegetated	0.00	0.00	NA
Green Infrastructure: Constructed green roofs	0.00	0.00	NA
Green Infrastructure: Constructed permeable pavements	0.00	0.00	NA
Impervious surface	3.00	1.70	NA
Stormwater pond (wet sedimentation basin)	0.00	0.00	NA

Trees	Number
Number of mature trees removed	0
Number of new trees planted	1

Construction Waste

Material Type	Quantity (tons)
Aluminum	0.00
Asphalt	180.00
Brick	7000.00
Concrete	0.00
Glass	70.00
Insulation	25.00
Steel	0.00
Wood Products	10.00
Mixed Waste	805.00

Building Energy Consumption

Building Type	Energy Intensity (Btu/sq ft/year)			
	Electricity	Natural Gas	Propane	Kerosene or Fuel Oil
Residential	NA	NA	NA	NA
Commercial	NA	NA	NA	NA
Industrial	NA	NA	NA	NA
Institutional	NA	NA	NA	NA
Other	NA	NA	NA	NA

Emissions from Coal Production

Coal Type	Incremental Production (tons/year)
Mixed Coal	NA
Anthracite Coal	NA
Bituminous Coal	NA
Subbituminous Coal	NA
Lignite Coal	NA
Coal Coke	NA

Emissions from Natural Gas and Oil Products

Fuel Type	Incremental Throughput	Unit
Natural Gas	NA	Cubic Feet/year
Renewable Natural Gas	NA	Cubic Feet/year
Propane	NA	Gallons/year
Gasoline	NA	Gallons/year
Distillate Fuel Oil No. 1	NA	Gallons/year
Distillate Fuel Oil No. 2	NA	Gallons/year
Distillate Fuel Oil No. 4	NA	Gallons/year
Residual Fuel Oil No. 5	NA	Gallons/year
Residual Fuel Oil No. 6	NA	Gallons/year
Liquified Petroleum Gas (LPG)	NA	Gallons/year
Kerosene	NA	Gallons/year
Kerosene Jet Fuel	NA	Gallons/year
Biodiesel 100	NA	Gallons/year
Biodiesel 20	NA	Gallons/year
Renewable Diesel	NA	Gallons/year

Natural Gas Assumptions

Percent Reduction in Leakage and Venting Emissions	NA
Leakage and Venting Emissions ($kgCO_2e$/MMBtu)	NA

Industrial Processes

Product Type	Quantity (tons/year)	Emission Factor ($kgCO_2e$/ton)
Cement	NA	NA
Lime	NA	NA
Limestone Use	NA	NA
Magnesium	NA	NA
Iron and Steel	NA	NA
Ammonia	NA	NA
Aluminum	NA	NA
Nitric Acid	NA	NA

HFC Leakage

Building Type	Percent of Building Area Utilized
Residential	NA
Commercial	NA
Industrial	NA
Institutional	NA

On-Road Vehicles

Speed Bin (miles/hr)	Additional VMT (miles/year)
Fleet Average	NA
0-30	NA
31-55	NA
56-75	NA

Treatment of Waste On-Site

Waste Treatment Practice	Quantity of Waste Treated (tons/year)
	NA
	NA
	NA

Treatment of Wastewater On-Site

Population Served by Treatment Plant	NA

Product Type	Production (MT/year)
	NA

Treatment of Waste Off-Site

Activity	Quantity	Waste Generation Rate	Unit
Number of single family households	NA	NA	lb/household/day
Number of employees (commercial)	NA	NA	lb/employee/day
Number of employees (industrial)	NA	NA	lb/employee/day
Number of employees (institutional)	NA	NA	lb/employee/day
Visitors per year (public venues)	NA	NA	lb/visitor

Waste Treatment Practice	Percent of Waste
Recycled	NA
Composted	NA
Landfilled	NA
Combusted	NA

Enteric Fermentation and Manure Management

Livestock Type	Population	Percentage of Manure Management System											
		Anaerobic digester	Anaerobic lagoon - liquid	Cattle deep litter	Composting	Daily spread	Deep pit	Dry lot	Liquid/ slurry	Pasture, range, paddock	Poultry with litter	Poultry without litter	Solid storage
Bulls	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beef cows	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beef heifers	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Steer stockers	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heifer stockers	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Feedlot beef	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beef calves	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dairy heifers	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dairy cows	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dairy calves	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Swine, <55 lbs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Swine 55-330 lbs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Swine 330+ lbs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poultry, layers	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poultry, pullets	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poultry, chickens	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poultry, broilers	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turkeys	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Percent of manure applied or sold for application to agricultural soils (pasture or cropland) as fertilizer	0%

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Notes

General Notes	
Material inputs	
Transportation of material inputs	
Employee commuting	
Construction equipment	
Land use change (construction)	
Construction waste	50% of waste will be recycled in some way. Only 50% of waste was included in these calculations.
Building energy consumption	
Coal production	
Natural gas and oil products	
Industrial processes	
HFC leakage	
Land use change (operations)	
On-road vehicles	
Treatment of waste on-site	
Treatment of wastewater on-site	
Treatment of waste off-site	
Enteric fermentation	
Manure management	
Mitigation Measures	
Adaptation Strategies	